



API Reference

AWS IoT



AWS IoT: API Reference

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Welcome

AWS IoT

AWS IoT provides secure, bi-directional communication between Internet-connected devices (such as sensors, actuators, embedded devices, or smart appliances) and the AWS cloud. You can discover your custom IoT-Data endpoint to communicate with, configure rules for data processing and integration with other services, organize resources associated with each device (Registry), configure logging, and create and manage policies and credentials to authenticate devices.

The service endpoints that expose this API are listed in [AWS IoT Core Endpoints and Quotas](#). You must use the endpoint for the region that has the resources you want to access.

The service name used by [AWS Signature Version 4](#) to sign the request is: *execute-api*.

For more information about how AWS IoT works, see the [Developer Guide](#).

For information about how to use the credentials provider for AWS IoT, see [Authorizing Direct Calls to AWS Services](#).

AWS IoT data

AWS IoT data enables secure, bi-directional communication between Internet-connected things (such as sensors, actuators, embedded devices, or smart appliances) and the AWS cloud. It implements a broker for applications and things to publish messages over HTTP (Publish) and retrieve, update, and delete shadows. A shadow is a persistent representation of your things and their state in the AWS cloud.

Find the endpoint address for actions in AWS IoT data by running this CLI command:

```
aws iot describe-endpoint --endpoint-type iot:Data-ATS
```

The service name used by [AWS Signature Version 4](#) to sign requests is: *iotdevicegateway*.

AWS IoT jobs data

AWS IoT Jobs is a service that allows you to define a set of jobs — remote operations that are sent to and executed on one or more devices connected to AWS IoT Core. For example, you can define a

job that instructs a set of devices to download and install application or firmware updates, reboot, rotate certificates, or perform remote troubleshooting operations.

Find the endpoint address for actions in the AWS IoT jobs data plane by running this CLI command:

```
aws iot describe-endpoint --endpoint-type iot:Jobs
```

The service name used by [AWS Signature Version 4](#) to sign requests is: *iot-jobs-data*.

To create a job, you make a job document which is a description of the remote operations to be performed, and you specify a list of targets that should perform the operations. The targets can be individual things, thing groups or both.

AWS IoT Jobs sends a message to inform the targets that a job is available. The target starts the execution of the job by downloading the job document, performing the operations it specifies, and reporting its progress to AWS IoT Core. The Jobs service provides commands to track the progress of a job on a specific target and for all the targets of the job

AWS IoT Core Device Advisor

AWS IoT Core Device Advisor is a cloud-based, fully managed test capability for validating IoT devices during device software development. Device Advisor provides pre-built tests that you can use to validate IoT devices for reliable and secure connectivity with AWS IoT Core before deploying devices to production. By using Device Advisor, you can confirm that your devices can connect to AWS IoT Core, follow security best practices and, if applicable, receive software updates from IoT Device Management. You can also download signed qualification reports to submit to the AWS Partner Network to get your device qualified for the AWS Partner Device Catalog without the need to send your device in and wait for it to be tested.

AWS IoT Secure Tunneling

AWS IoT Secure Tunneling creates remote connections to devices deployed in the field.

For more information about how AWS IoT Secure Tunneling works, see [AWS IoT Secure Tunneling](#).

Actions

The following actions are supported by AWS IoT:

- [AcceptCertificateTransfer](#)
- [AddThingToBillingGroup](#)
- [AddThingToThingGroup](#)
- [AssociateSbomWithPackageVersion](#)
- [AssociateTargetsWithJob](#)
- [AttachPolicy](#)
- [AttachPrincipalPolicy](#)
- [AttachSecurityProfile](#)
- [AttachThingPrincipal](#)
- [CancelAuditMitigationActionsTask](#)
- [CancelAuditTask](#)
- [CancelCertificateTransfer](#)
- [CancelDetectMitigationActionsTask](#)
- [CancelJob](#)
- [CancelJobExecution](#)
- [ClearDefaultAuthorizer](#)
- [ConfirmTopicRuleDestination](#)
- [CreateAuditSuppression](#)
- [CreateAuthorizer](#)
- [CreateBillingGroup](#)
- [CreateCertificateFromCsr](#)
- [CreateCertificateProvider](#)
- [CreateCommand](#)
- [CreateCustomMetric](#)
- [CreateDimension](#)
- [CreateDomainConfiguration](#)
- [CreateDynamicThingGroup](#)

- [CreateFleetMetric](#)
- [CreateJob](#)
- [CreateJobTemplate](#)
- [CreateKeysAndCertificate](#)
- [CreateMitigationAction](#)
- [CreateOTAUpdate](#)
- [CreatePackage](#)
- [CreatePackageVersion](#)
- [CreatePolicy](#)
- [CreatePolicyVersion](#)
- [CreateProvisioningClaim](#)
- [CreateProvisioningTemplate](#)
- [CreateProvisioningTemplateVersion](#)
- [CreateRoleAlias](#)
- [CreateScheduledAudit](#)
- [CreateSecurityProfile](#)
- [CreateStream](#)
- [CreateThing](#)
- [CreateThingGroup](#)
- [CreateThingType](#)
- [CreateTopicRule](#)
- [CreateTopicRuleDestination](#)
- [DeleteAccountAuditConfiguration](#)
- [DeleteAuditSuppression](#)
- [DeleteAuthorizer](#)
- [DeleteBillingGroup](#)
- [DeleteCACertificate](#)
- [DeleteCertificate](#)
- [DeleteCertificateProvider](#)
- [DeleteCommand](#)

- [DeleteCommandExecution](#)
- [DeleteCustomMetric](#)
- [DeleteDimension](#)
- [DeleteDomainConfiguration](#)
- [DeleteDynamicThingGroup](#)
- [DeleteFleetMetric](#)
- [DeleteJob](#)
- [DeleteJobExecution](#)
- [DeleteJobTemplate](#)
- [DeleteMitigationAction](#)
- [DeleteOTAUpdate](#)
- [DeletePackage](#)
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- [DeletePolicy](#)
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- [DeleteThing](#)
- [DeleteThingGroup](#)
- [DeleteThingType](#)
- [DeleteTopicRule](#)
- [DeleteTopicRuleDestination](#)
- [DeleteV2LoggingLevel](#)
- [DeprecateThingType](#)
- [DescribeAccountAuditConfiguration](#)

- [DescribeAuditFinding](#)
- [DescribeAuditMitigationActionsTask](#)
- [DescribeAuditSuppression](#)
- [DescribeAuditTask](#)
- [DescribeAuthorizer](#)
- [DescribeBillingGroup](#)
- [DescribeCACertificate](#)
- [DescribeCertificate](#)
- [DescribeCertificateProvider](#)
- [DescribeCustomMetric](#)
- [DescribeDefaultAuthorizer](#)
- [DescribeDetectMitigationActionsTask](#)
- [DescribeDimension](#)
- [DescribeDomainConfiguration](#)
- [DescribeEncryptionConfiguration](#)
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- [DescribeEventConfigurations](#)
- [DescribeFleetMetric](#)
- [DescribeIndex](#)
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- [DetachPrincipalPolicy](#)
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- [DetachThingPrincipal](#)
- [DisableTopicRule](#)
- [DisassociateSbomFromPackageVersion](#)
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- [ListTopicRuleDestinations](#)
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- [ListV2LoggingLevels](#)
- [ListViolationEvents](#)
- [PutVerificationStateOnViolation](#)
- [RegisterCACertificate](#)
- [RegisterCertificate](#)
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- [RegisterThing](#)
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- [StartOnDemandAuditTask](#)
- [StartThingRegistrationTask](#)
- [StopThingRegistrationTask](#)
- [TagResource](#)
- [TestAuthorization](#)

- [TestInvokeAuthorizer](#)
- [TransferCertificate](#)
- [UntagResource](#)
- [UpdateAccountAuditConfiguration](#)
- [UpdateAuditSuppression](#)
- [UpdateAuthorizer](#)
- [UpdateBillingGroup](#)
- [UpdateCACertificate](#)
- [UpdateCertificate](#)
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- [UpdateThingGroup](#)
- [UpdateThingGroupsForThing](#)
- [UpdateThingType](#)
- [UpdateTopicRuleDestination](#)
- [ValidateSecurityProfileBehaviors](#)

The following actions are supported by AWS IoT data:

- [DeleteConnection](#)
- [DeleteThingShadow](#)
- [GetConnection](#)
- [GetRetainedMessage](#)
- [GetThingShadow](#)
- [ListNamedShadowsForThing](#)
- [ListRetainedMessages](#)
- [ListSubscriptions](#)
- [Publish](#)
- [SendDirectMessage](#)
- [UpdateThingShadow](#)

The following actions are supported by AWS IoT jobs data:

- [DescribeJobExecution](#)
- [GetPendingJobExecutions](#)
- [StartCommandExecution](#)
- [StartNextPendingJobExecution](#)
- [UpdateJobExecution](#)

The following actions are supported by AWS IoT Core Device Advisor:

- [CreateSuiteDefinition](#)
- [DeleteSuiteDefinition](#)

- [GetEndpoint](#)
- [GetSuiteDefinition](#)
- [GetSuiteRun](#)
- [GetSuiteRunReport](#)
- [ListSuiteDefinitions](#)
- [ListSuiteRuns](#)
- [ListTagsForResource](#)
- [StartSuiteRun](#)
- [StopSuiteRun](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateSuiteDefinition](#)

The following actions are supported by AWS IoT Secure Tunneling:

- [CloseTunnel](#)
- [DescribeTunnel](#)
- [ListTagsForResource](#)
- [ListTunnels](#)
- [OpenTunnel](#)
- [RotateTunnelAccessToken](#)
- [TagResource](#)
- [UntagResource](#)

AWS IoT

The following actions are supported by AWS IoT:

- [AcceptCertificateTransfer](#)
- [AddThingToBillingGroup](#)
- [AddThingToThingGroup](#)
- [AssociateSbomWithPackageVersion](#)

- [AssociateTargetsWithJob](#)
- [AttachPolicy](#)
- [AttachPrincipalPolicy](#)
- [AttachSecurityProfile](#)
- [AttachThingPrincipal](#)
- [CancelAuditMitigationActionsTask](#)
- [CancelAuditTask](#)
- [CancelCertificateTransfer](#)
- [CancelDetectMitigationActionsTask](#)
- [CancelJob](#)
- [CancelJobExecution](#)
- [ClearDefaultAuthorizer](#)
- [ConfirmTopicRuleDestination](#)
- [CreateAuditSuppression](#)
- [CreateAuthorizer](#)
- [CreateBillingGroup](#)
- [CreateCertificateFromCsr](#)
- [CreateCertificateProvider](#)
- [CreateCommand](#)
- [CreateCustomMetric](#)
- [CreateDimension](#)
- [CreateDomainConfiguration](#)
- [CreateDynamicThingGroup](#)
- [CreateFleetMetric](#)
- [CreateJob](#)
- [CreateJobTemplate](#)
- [CreateKeysAndCertificate](#)
- [CreateMitigationAction](#)
- [CreateOTAUpdate](#)
- [CreatePackage](#)

- [CreatePackageVersion](#)
- [CreatePolicy](#)
- [CreatePolicyVersion](#)
- [CreateProvisioningClaim](#)
- [CreateProvisioningTemplate](#)
- [CreateProvisioningTemplateVersion](#)
- [CreateRoleAlias](#)
- [CreateScheduledAudit](#)
- [CreateSecurityProfile](#)
- [CreateStream](#)
- [CreateThing](#)
- [CreateThingGroup](#)
- [CreateThingType](#)
- [CreateTopicRule](#)
- [CreateTopicRuleDestination](#)
- [DeleteAccountAuditConfiguration](#)
- [DeleteAuditSuppression](#)
- [DeleteAuthorizer](#)
- [DeleteBillingGroup](#)
- [DeleteCACertificate](#)
- [DeleteCertificate](#)
- [DeleteCertificateProvider](#)
- [DeleteCommand](#)
- [DeleteCommandExecution](#)
- [DeleteCustomMetric](#)
- [DeleteDimension](#)
- [DeleteDomainConfiguration](#)
- [DeleteDynamicThingGroup](#)
- [DeleteFleetMetric](#)
- [DeleteJob](#)

- [DeleteJobExecution](#)
- [DeleteJobTemplate](#)
- [DeleteMitigationAction](#)
- [DeleteOTAUpdate](#)
- [DeletePackage](#)
- [DeletePackageVersion](#)
- [DeletePolicy](#)
- [DeletePolicyVersion](#)
- [DeleteProvisioningTemplate](#)
- [DeleteProvisioningTemplateVersion](#)
- [DeleteRegistrationCode](#)
- [DeleteRoleAlias](#)
- [DeleteScheduledAudit](#)
- [DeleteSecurityProfile](#)
- [DeleteStream](#)
- [DeleteThing](#)
- [DeleteThingGroup](#)
- [DeleteThingType](#)
- [DeleteTopicRule](#)
- [DeleteTopicRuleDestination](#)
- [DeleteV2LoggingLevel](#)
- [DeprecateThingType](#)
- [DescribeAccountAuditConfiguration](#)
- [DescribeAuditFinding](#)
- [DescribeAuditMitigationActionsTask](#)
- [DescribeAuditSuppression](#)
- [DescribeAuditTask](#)
- [DescribeAuthorizer](#)
- [DescribeBillingGroup](#)
- [DescribeCACertificate](#)

- [DescribeCertificate](#)
- [DescribeCertificateProvider](#)
- [DescribeCustomMetric](#)
- [DescribeDefaultAuthorizer](#)
- [DescribeDetectMitigationActionsTask](#)
- [DescribeDimension](#)
- [DescribeDomainConfiguration](#)
- [DescribeEncryptionConfiguration](#)
- [DescribeEndpoint](#)
- [DescribeEventConfigurations](#)
- [DescribeFleetMetric](#)
- [DescribeIndex](#)
- [DescribeJob](#)
- [DescribeJobExecution](#)
- [DescribeJobTemplate](#)
- [DescribeManagedJobTemplate](#)
- [DescribeMitigationAction](#)
- [DescribeProvisioningTemplate](#)
- [DescribeProvisioningTemplateVersion](#)
- [DescribeRoleAlias](#)
- [DescribeScheduledAudit](#)
- [DescribeSecurityProfile](#)
- [DescribeStream](#)
- [DescribeThing](#)
- [DescribeThingGroup](#)
- [DescribeThingRegistrationTask](#)
- [DescribeThingType](#)
- [DetachPolicy](#)
- [DetachPrincipalPolicy](#)
- [DetachSecurityProfile](#)

- [DetachThingPrincipal](#)
- [DisableTopicRule](#)
- [DisassociateSbomFromPackageVersion](#)
- [EnableTopicRule](#)
- [GetBehaviorModelTrainingSummaries](#)
- [GetBucketsAggregation](#)
- [GetCardinality](#)
- [GetCommand](#)
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- [GetEffectivePolicies](#)
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- [GetPackage](#)
- [GetPackageConfiguration](#)
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- [GetPercentiles](#)
- [GetPolicy](#)
- [GetPolicyVersion](#)
- [GetRegistrationCode](#)
- [GetStatistics](#)
- [GetThingConnectivityData](#)
- [GetTopicRule](#)
- [GetTopicRuleDestination](#)
- [GetV2LoggingOptions](#)
- [ListActiveViolations](#)
- [ListAttachedPolicies](#)
- [ListAuditFindings](#)
- [ListAuditMitigationActionsExecutions](#)

- [ListAuditMitigationActionsTasks](#)
- [ListAuditSuppressions](#)
- [ListAuditTasks](#)
- [ListAuthorizers](#)
- [ListBillingGroups](#)
- [ListCACertificates](#)
- [ListCertificateProviders](#)
- [ListCertificates](#)
- [ListCertificatesByCA](#)
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- [ListCommands](#)
- [ListCustomMetrics](#)
- [ListDetectMitigationActionsExecutions](#)
- [ListDetectMitigationActionsTasks](#)
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- [ListJobExecutionsForJob](#)
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- [ListJobs](#)
- [ListJobTemplates](#)
- [ListManagedJobTemplates](#)
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- [ListMitigationActions](#)
- [ListOTAUpdates](#)
- [ListOutgoingCertificates](#)
- [ListPackages](#)
- [ListPackageVersions](#)
- [ListPolicies](#)

- [ListPolicyPrincipals](#)
- [ListPolicyVersions](#)
- [ListPrincipalPolicies](#)
- [ListPrincipalThings](#)
- [ListPrincipalThingsV2](#)
- [ListProvisioningTemplates](#)
- [ListProvisioningTemplateVersions](#)
- [ListRelatedResourcesForAuditFinding](#)
- [ListRoleAliases](#)
- [ListSbomValidationResults](#)
- [ListScheduledAudits](#)
- [ListSecurityProfiles](#)
- [ListSecurityProfilesForTarget](#)
- [ListStreams](#)
- [ListTagsForResource](#)
- [ListTargetsForPolicy](#)
- [ListTargetsForSecurityProfile](#)
- [ListThingGroups](#)
- [ListThingGroupsForThing](#)
- [ListThingPrincipals](#)
- [ListThingPrincipalsV2](#)
- [ListThingRegistrationTaskReports](#)
- [ListThingRegistrationTasks](#)
- [ListThings](#)
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- [ListThingTypes](#)
- [ListTopicRuleDestinations](#)
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- [UpdateThingGroupsForThing](#)
- [UpdateThingType](#)
- [UpdateTopicRuleDestination](#)
- [ValidateSecurityProfileBehaviors](#)

AcceptCertificateTransfer

Service: AWS IoT

Accepts a pending certificate transfer. The default state of the certificate is INACTIVE.

To check for pending certificate transfers, call [ListCertificates](#) to enumerate your certificates.

Requires permission to access the [AcceptCertificateTransfer](#) action.

Request Syntax

```
PATCH /accept-certificate-transfer/certificateId?setAsActive=setAsActive HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[certificateId](#)

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

[setAsActive](#)

Specifies whether the certificate is active.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

TransferAlreadyCompletedException

You can't revert the certificate transfer because the transfer is already complete.

message

The message for the exception.

HTTP Status Code: 410

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

AddThingToBillingGroup

Service: AWS IoT

Adds a thing to a billing group.

Requires permission to access the [AddThingToBillingGroup](#) action.

Request Syntax

```
PUT /billing-groups/addThingToBillingGroup HTTP/1.1
Content-type: application/json
```

```
{
  "billingGroupArn": "string",
  "billingGroupName": "string",
  "thingArn": "string",
  "thingName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[billingGroupArn](#)

The ARN of the billing group.

Type: String

Required: No

[billingGroupName](#)

The name of the billing group.

Note

This call is asynchronous. It might take several seconds for the detachment to propagate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingArn

The ARN of the thing to be added to the billing group.

Type: String

Required: No

thingName

The name of the thing to be added to the billing group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

AddThingToThingGroup

Service: AWS IoT

Adds a thing to a thing group.

Requires permission to access the [AddThingToThingGroup](#) action.

Request Syntax

```
PUT /thing-groups/addThingToThingGroup HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "overrideDynamicGroups": boolean,
  "thingArn": "string",
  "thingGroupArn": "string",
  "thingGroupName": "string",
  "thingName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[overrideDynamicGroups](#)

Override dynamic thing groups with static thing groups when 10-group limit is reached. If a thing belongs to 10 thing groups, and one or more of those groups are dynamic thing groups, adding a thing to a static group removes the thing from the last dynamic group.

Type: Boolean

Required: No

[thingArn](#)

The ARN of the thing to add to a group.

Type: String

Required: No

[thingGroupArn](#)

The ARN of the group to which you are adding a thing.

Type: String

Required: No

[thingGroupName](#)

The name of the group to which you are adding a thing.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

[thingName](#)

The name of the thing to add to a group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
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- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

AssociateSbomWithPackageVersion

Service: AWS IoT

Associates the selected software bill of materials (SBOM) with a specific software package version.

Requires permission to access the [AssociateSbomWithPackageVersion](#) action.

Request Syntax

```
PUT /packages/packageName/versions/versionName/sbom?clientToken=clientToken HTTP/1.1
Content-type: application/json
```

```
{
  "sbom": {
    "s3Location": {
      "bucket": "string",
      "key": "string",
      "version": "string"
    }
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[clientToken](#)

A unique case-sensitive identifier that you can provide to ensure the idempotency of the request. Don't reuse this client token if a new idempotent request is required.

Length Constraints: Minimum length of 36. Maximum length of 64.

Pattern: `\S{36,64}`

[packageName](#)

The name of the new software package.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9-_.]+`

Required: Yes

versionName

The name of the new package version.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-_.]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

sbom

A specific software bill of materials associated with a software package version.

Type: Sbom object

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "packageName": "string",
  "sbom": {
    "s3Location": {
      "bucket": "string",
      "key": "string",
      "version": "string"
    }
  },
  "sbomValidationStatus": "string",
  "versionName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

packageName

The name of the new software package.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9-_.]+

sbom

A specific software bill of materials associated with a software package version.

Type: [Sbom](#) object

sbomValidationStatus

The status of the initial validation for the software bill of materials against the Software Package Data Exchange (SPDX) and CycloneDX industry standard formats.

Type: String

Valid Values: IN_PROGRESS | FAILED | SUCCEEDED

versionName

The name of the new package version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-_.]+

Errors

ConflictException

The request conflicts with the current state of the resource.

resourceId

A resource with the same name already exists.

HTTP Status Code: 409

InternalServerErrorException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceQuotaExceededException

Service quota has been exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

AssociateTargetsWithJob

Service: AWS IoT

Associates a group with a continuous job. The following criteria must be met:

- The job must have been created with the `targetSelection` field set to "CONTINUOUS".
- The job status must currently be "IN_PROGRESS".
- The total number of targets associated with a job must not exceed 100.

Requires permission to access the [AssociateTargetsWithJob](#) action.

Request Syntax

```
POST /jobs/jobId/targets?namespaceId=namespaceId HTTP/1.1
Content-type: application/json

{
  "comment": "string",
  "targets": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

jobId

The unique identifier you assigned to this job when it was created.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

namespaceId

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

`$aws/things/THING_NAME/jobs/JOB_ID/notify-namespace-NAMESPACE_ID/`

Note

The namespaceId feature is only supported by AWS IoT Greengrass at this time. For more information, see [Setting up AWS IoT Greengrass core devices](#).

Pattern: `[a-zA-Z0-9_-]+`

Request Body

The request accepts the following data in JSON format.

comment

An optional comment string describing why the job was associated with the targets.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: No

targets

A list of thing group ARNs that define the targets of the job.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Maximum length of 2048.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "description": "string",
  "jobArn": "string",
  "jobId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

description

A short text description of the job.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

jobArn

An ARN identifying the job.

Type: String

jobId

The unique identifier you assigned to this job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

Errors

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

AttachPolicy

Service: AWS IoT

Attaches the specified policy to the specified principal (certificate or other credential).

Requires permission to access the [AttachPolicy](#) action.

Request Syntax

```
PUT /target-policies/policyName HTTP/1.1
Content-type: application/json

{
  "target": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[policyName](#)

The name of the policy to attach.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

[target](#)

The [identity](#) to which the policy is attached. For example, a thing group or a certificate.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

AttachPrincipalPolicy

Service: AWS IoT

Attaches the specified policy to the specified principal (certificate or other credential).

Note: This action is deprecated and works as expected for backward compatibility, but we won't add enhancements. Use [AttachPolicy](#) instead.

Requires permission to access the [AttachPrincipalPolicy](#) action.

Request Syntax

```
PUT /principal-policies/policyName HTTP/1.1
x-amzn-iot-principal: principal
```

URI Request Parameters

The request uses the following URI parameters.

[policyName](#)

The policy name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: Yes

[principal](#)

The principal, which can be a certificate ARN (as returned from the CreateCertificate operation) or an Amazon Cognito ID.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

AttachSecurityProfile

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Associates a Device Defender security profile with a thing group or this account. Each thing group or account can have up to five security profiles associated with it.

Requires permission to access the [AttachSecurityProfile](#) action.

Request Syntax

```
PUT /security-profiles/securityProfileName/targets?  
securityProfileTargetArn=securityProfileTargetArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

securityProfileName

The security profile that is attached.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

securityProfileTargetArn

The ARN of the target (thing group) to which the security profile is attached.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)

- [AWS SDK for Ruby V3](#)

AttachThingPrincipal

Service: AWS IoT

Attaches the specified principal to the specified thing. A principal can be X.509 certificates, Amazon Cognito identities or federated identities.

Requires permission to access the [AttachThingPrincipal](#) action.

Request Syntax

```
PUT /things/thingName/principals?thingPrincipalType=thingPrincipalType HTTP/1.1
x-amzn-principal: principal
```

URI Request Parameters

The request uses the following URI parameters.

[principal](#)

The principal, which can be a certificate ARN (as returned from the CreateCertificate operation) or an Amazon Cognito ID.

Required: Yes

[thingName](#)

The name of the thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

[thingPrincipalType](#)

The type of the relation you want to specify when you attach a principal to a thing.

- **EXCLUSIVE_THING** - Attaches the specified principal to the specified thing, exclusively. The thing will be the only thing that's attached to the principal.
- **NON_EXCLUSIVE_THING** - Attaches the specified principal to the specified thing. Multiple things can be attached to the principal.

Valid Values: EXCLUSIVE_THING | NON_EXCLUSIVE_THING

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CancelAuditMitigationActionsTask

Service: AWS IoT

Cancels a mitigation action task that is in progress. If the task is not in progress, an `InvalidRequestException` occurs.

Requires permission to access the [CancelAuditMitigationActionsTask](#) action.

Request Syntax

```
PUT /audit/mitigationactions/tasks/taskId/cancel HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId

The unique identifier for the task that you want to cancel.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CancelAuditTask

Service: AWS IoT

Cancels an audit that is in progress. The audit can be either scheduled or on demand. If the audit isn't in progress, an "InvalidRequestException" occurs.

Requires permission to access the [CancelAuditTask](#) action.

Request Syntax

```
PUT /audit/tasks/taskId/cancel HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId

The ID of the audit you want to cancel. You can only cancel an audit that is "IN_PROGRESS".

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: [a-zA-Z0-9\-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CancelCertificateTransfer

Service: AWS IoT

Cancels a pending transfer for the specified certificate.

Note Only the transfer source account can use this operation to cancel a transfer. (Transfer destinations can use [RejectCertificateTransfer](#) instead.) After transfer, AWS IoT returns the certificate to the source account in the INACTIVE state. After the destination account has accepted the transfer, the transfer cannot be cancelled.

After a certificate transfer is cancelled, the status of the certificate changes from PENDING_TRANSFER to INACTIVE.

Requires permission to access the [CancelCertificateTransfer](#) action.

Request Syntax

```
PATCH /cancel-certificate-transfer/certificateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[certificateId](#)

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

TransferAlreadyCompletedException

You can't revert the certificate transfer because the transfer is already complete.

message

The message for the exception.

HTTP Status Code: 410

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CancelDetectMitigationActionsTask

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Cancels a Device Defender ML Detect mitigation action.

Requires permission to access the [CancelDetectMitigationActionsTask](#) action.

Request Syntax

```
PUT /detect/mitigationactions/tasks/taskId/cancel HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId

The unique identifier of the task.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CancelJob

Service: AWS IoT

Cancels a job.

Requires permission to access the [CancelJob](#) action.

Request Syntax

```
PUT /jobs/jobId/cancel?force=force HTTP/1.1
Content-type: application/json
```

```
{
  "comment": "string",
  "reasonCode": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[force](#)

(Optional) If true job executions with status "IN_PROGRESS" and "QUEUED" are canceled, otherwise only job executions with status "QUEUED" are canceled. The default is false.

Canceling a job which is "IN_PROGRESS", will cause a device which is executing the job to be unable to update the job execution status. Use caution and ensure that each device executing a job which is canceled is able to recover to a valid state.

[jobId](#)

The unique identifier you assigned to this job when it was created.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

comment

An optional comment string describing why the job was canceled.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: No

reasonCode

(Optional)A reason code string that explains why the job was canceled.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\p{Upper}\p{Digit}_]+`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "description": "string",
  "jobArn": "string",
  "jobId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

description

A short text description of the job.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

jobArn

The job ARN.

Type: String

jobId

The unique identifier you assigned to this job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

Errors

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CancelJobExecution

Service: AWS IoT

Cancels the execution of a job for a given thing.

Requires permission to access the [CancelJobExecution](#) action.

Request Syntax

```
PUT /things/thingName/jobs/jobId/cancel?force=force HTTP/1.1
Content-type: application/json

{
  "expectedVersion": number,
  "statusDetails": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[force](#)

(Optional) If `true` the job execution will be canceled if it has status `IN_PROGRESS` or `QUEUED`, otherwise the job execution will be canceled only if it has status `QUEUED`. If you attempt to cancel a job execution that is `IN_PROGRESS`, and you do not set `force` to `true`, then an `InvalidStateTransitionException` will be thrown. The default is `false`.

Canceling a job execution which is `"IN_PROGRESS"`, will cause the device to be unable to update the job execution status. Use caution and ensure that the device is able to recover to a valid state.

[jobId](#)

The ID of the job to be canceled.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

thingName

The name of the thing whose execution of the job will be canceled.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

expectedVersion

(Optional) The expected current version of the job execution. Each time you update the job execution, its version is incremented. If the version of the job execution stored in Jobs does not match, the update is rejected with a VersionMismatch error, and an ErrorResponse that contains the current job execution status data is returned. (This makes it unnecessary to perform a separate DescribeJobExecution request in order to obtain the job execution status data.)

Type: Long

Required: No

statusDetails

A collection of name/value pairs that describe the status of the job execution. If not specified, the statusDetails are unchanged. You can specify at most 10 name/value pairs.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[a-zA-Z0-9:_-]+`

Value Length Constraints: Minimum length of 1.

Value Pattern: `[\p{C}]`

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

InvalidStateTransitionException

An attempt was made to change to an invalid state, for example by deleting a job or a job execution which is "IN_PROGRESS" without setting the force parameter.

message

The message for the exception.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)

- [AWS SDK for Ruby V3](#)

ClearDefaultAuthorizer

Service: AWS IoT

Clears the default authorizer.

Requires permission to access the [ClearDefaultAuthorizer](#) action.

Request Syntax

```
DELETE /default-authorizer HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ConfirmTopicRuleDestination

Service: AWS IoT

Confirms a topic rule destination. When you create a rule requiring a destination, AWS IoT sends a confirmation message to the endpoint or base address you specify. The message includes a token which you pass back when calling `ConfirmTopicRuleDestination` to confirm that you own or have access to the endpoint.

Requires permission to access the [ConfirmTopicRuleDestination](#) action.

Request Syntax

```
GET /confirmdestination/confirmationToken+ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

confirmationToken

The token used to confirm ownership or access to the topic rule confirmation URL.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateAuditSuppression

Service: AWS IoT

Creates a Device Defender audit suppression.

Requires permission to access the [CreateAuditSuppression](#) action.

Request Syntax

```
POST /audit/suppressions/create HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "checkName": "string",
  "clientRequestToken": "string",
  "description": "string",
  "expirationDate": number,
  "resourceIdentifier": {
    "account": "string",
    "caCertificateId": "string",
    "clientId": "string",
    "cognitoIdentityPoolId": "string",
    "deviceCertificateArn": "string",
    "deviceCertificateId": "string",
    "iamRoleArn": "string",
    "issuerCertificateIdentifier": {
      "issuerCertificateSerialNumber": "string",
      "issuerCertificateSubject": "string",
      "issuerId": "string"
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  },
  "suppressIndefinitely": boolean
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

checkName

An audit check name. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: String

Required: Yes

clientRequestToken

Each audit suppression must have a unique client request token. If you try to create a new audit suppression with the same token as one that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `^[a-zA-Z0-9- _]+$`

Required: Yes

description

The description of the audit suppression.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\p{Graph}\x20]*`

Required: No

expirationDate

The epoch timestamp in seconds at which this suppression expires.

Type: Timestamp

Required: No

[resourceIdentifier](#)

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier](#) object

Required: Yes

[suppressIndefinitely](#)

Indicates whether a suppression should exist indefinitely or not.

Type: Boolean

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateAuthorizer

Service: AWS IoT

Creates an authorizer.

Requires permission to access the [CreateAuthorizer](#) action.

Request Syntax

```
POST /authorizer/authorizerName HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "authorizerFunctionArn": "string",
  "enableCachingForHttp": boolean,
  "signingDisabled": boolean,
  "status": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "tokenKeyName": "string",
  "tokenSigningPublicKeys": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[authorizerName](#)

The authorizer name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@- ]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

[authorizerFunctionArn](#)

The ARN of the authorizer's Lambda function.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `[\s\S]*`

Required: Yes

[enableCachingForHttp](#)

When `true`, the result from the authorizer's Lambda function is cached for clients that use persistent HTTP connections. The results are cached for the time specified by the Lambda function in `refreshAfterInSeconds`. This value does not affect authorization of clients that use MQTT connections.

The default value is `false`.

Type: Boolean

Required: No

[signingDisabled](#)

Specifies whether AWS IoT validates the token signature in an authorization request.

Type: Boolean

Required: No

[status](#)

The status of the create authorizer request.

Type: String

Valid Values: `ACTIVE` | `INACTIVE`

Required: No

tags

Metadata which can be used to manage the custom authorizer.

Note

For URI Request parameters use format: ...key1=value1&key2=value2...

For the CLI command-line parameter use format: &&tags "key1=value1&key2=value2..."

For the cli-input-json file use format: "tags": "key1=value1&key2=value2..."

Type: Array of [Tag](#) objects

Required: No

tokenKeyName

The name of the token key used to extract the token from the HTTP headers.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

tokenSigningPublicKeys

The public keys used to verify the digital signature returned by your custom authentication service.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Maximum length of 5120.

Value Pattern: [\\s\\S]*

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "authorizerArn": "string",
  "authorizerName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[authorizerArn](#)

The authorizer ARN.

Type: String

Length Constraints: Maximum length of 2048.

[authorizerName](#)

The authorizer's name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@- ]+`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateBillingGroup

Service: AWS IoT

Creates a billing group. If this call is made multiple times using the same billing group name and configuration, the call will succeed. If this call is made with the same billing group name but different configuration a `ResourceAlreadyExistsException` is thrown.

Requires permission to access the [CreateBillingGroup](#) action.

Request Syntax

```
POST /billing-groups/billingGroupName HTTP/1.1
Content-type: application/json
```

```
{
  "billingGroupProperties": {
    "billingGroupDescription": "string"
  },
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[billingGroupName](#)

The name you wish to give to the billing group.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

[billingGroupProperties](#)

The properties of the billing group.

Type: [BillingGroupProperties](#) object

Required: No

[tags](#)

Metadata which can be used to manage the billing group.

Type: Array of [Tag](#) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "billingGroupArn": "string",
  "billingGroupId": "string",
  "billingGroupName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[billingGroupArn](#)

The ARN of the billing group.

Type: String

billingGroupId

The ID of the billing group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-]+\

billingGroupName

The name you gave to the billing group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_\-]+\

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateCertificateFromCsr

Service: AWS IoT

Creates an X.509 certificate using the specified certificate signing request.

Requires permission to access the [CreateCertificateFromCsr](#) action.

Note

The CSR must include a public key that is either an RSA key with a length of at least 2048 bits or an ECC key from NIST P-256, NIST P-384, or NIST P-521 curves. For supported certificates, consult [Certificate signing algorithms supported by AWS IoT](#).

Note

Reusing the same certificate signing request (CSR) results in a distinct certificate.

You can create multiple certificates in a batch by creating a directory, copying multiple `.csr` files into that directory, and then specifying that directory on the command line. The following commands show how to create a batch of certificates given a batch of CSRs. In the following commands, we assume that a set of CSRs are located inside of the directory `my-csr-directory`:

On Linux and OS X, the command is:

```
$ ls my-csr-directory/ | xargs -I {} aws iot create-certificate-from-csr --  
certificate-signing-request file:///my-csr-directory/{} 
```

This command lists all of the CSRs in `my-csr-directory` and pipes each CSR file name to the `aws iot create-certificate-from-csr` AWS CLI command to create a certificate for the corresponding CSR.

You can also run the `aws iot create-certificate-from-csr` part of the command in parallel to speed up the certificate creation process:

```
$ ls my-csr-directory/ | xargs -P 10 -I {} aws iot create-certificate-from-  
csr --certificate-signing-request file:///my-csr-directory/{} 
```

On Windows PowerShell, the command to create certificates for all CSRs in `my-csr-directory` is:

```
> ls -Name my-csr-directory | %{aws iot create-certificate-from-csr --  
certificate-signing-request file://my-csr-directory/$_}
```

On a Windows command prompt, the command to create certificates for all CSRs in my-csr-directory is:

```
> forfiles /p my-csr-directory /c "cmd /c aws iot create-certificate-from-  
csr --certificate-signing-request file://@path"
```

Request Syntax

```
POST /certificates?setAsActive=setAsActive HTTP/1.1  
Content-type: application/json
```

```
{  
  "certificateSigningRequest": "string"  
}
```

URI Request Parameters

The request uses the following URI parameters.

setAsActive

Specifies whether the certificate is active.

Request Body

The request accepts the following data in JSON format.

certificateSigningRequest

The certificate signing request (CSR).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[\s\S]*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificateArn": "string",
  "certificateId": "string",
  "certificatePem": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[certificateArn](#)

The Amazon Resource Name (ARN) of the certificate. You can use the ARN as a principal for policy operations.

Type: String

[certificateId](#)

The ID of the certificate. Certificate management operations only take a `certificateId`.

Type: String

Length Constraints: Fixed length of 64.

Pattern: `(0x)?[a-fA-F0-9]+`

[certificatePem](#)

The certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\s\S]*`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateCertificateProvider

Service: AWS IoT

Creates an AWS IoT Core certificate provider. You can use AWS IoT Core certificate provider to customize how to sign a certificate signing request (CSR) in AWS IoT fleet provisioning. For more information, see [Customizing certificate signing using AWS IoT Core certificate provider](#) from *AWS IoT Core Developer Guide*.

Requires permission to access the [CreateCertificateProvider](#) action.

Important

After you create a certificate provider, the behavior of [CreateCertificateFromCsr API for fleet provisioning](#) will change and all API calls to `CreateCertificateFromCsr` will invoke the certificate provider to create the certificates. It can take up to a few minutes for this behavior to change after a certificate provider is created.

Request Syntax

```
POST /certificate-providers/certificateProviderName HTTP/1.1
Content-type: application/json
```

```
{
  "accountDefaultForOperations": [ "string" ],
  "clientToken": "string",
  "lambdaFunctionArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

certificateProviderName

The name of the certificate provider.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@- ]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

accountDefaultForOperations

A list of the operations that the certificate provider will use to generate certificates. Valid value: `CreateCertificateFromCsr`.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: `CreateCertificateFromCsr`

Required: Yes

clientToken

A string that you can optionally pass in the `CreateCertificateProvider` request to make sure the request is idempotent.

Type: String

Length Constraints: Minimum length of 36. Maximum length of 64.

Pattern: `\S{36,64}`

Required: No

lambdaFunctionArn

The ARN of the Lambda function that defines the authentication logic.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `[\s\S]*`

Required: Yes

tags

Metadata which can be used to manage the certificate provider.

Type: Array of [Tag](#) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificateProviderArn": "string",
  "certificateProviderName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

certificateProviderArn

The ARN of the certificate provider.

Type: String

Length Constraints: Maximum length of 2048.

certificateProviderName

The name of the certificate provider.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@- ]+`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateCommand

Service: AWS IoT

Creates a command. A command contains reusable configurations that can be applied before they are sent to the devices.

Request Syntax

```
PUT /commands/commandId HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "description": "string",
  "displayName": "string",
  "mandatoryParameters": [
    {
      "defaultValue": {
        "B": boolean,
        "BIN": blob,
        "D": number,
        "I": number,
        "L": number,
        "S": "string",
        "UL": "string"
      },
      "description": "string",
      "name": "string",
      "type": "string",
      "value": {
        "B": boolean,
        "BIN": blob,
        "D": number,
        "I": number,
        "L": number,
        "S": "string",
        "UL": "string"
      },
      "valueConditions": [
        {
          "comparisonOperator": "string",
          "operand": {
            "number": "string",
            "numberRange": {
```

```

        "max": "string",
        "min": "string"
      },
      "numbers": [ "string" ],
      "string": "string",
      "strings": [ "string" ]
    }
  ]
}
],
"namespace": "string",
"payload": {
  "content": blob,
  "contentType": "string"
},
"payloadTemplate": "string",
"preprocessor": {
  "awsJsonSubstitution": {
    "outputFormat": "string"
  }
},
"roleArn": "string",
"tags": [
  {
    "Key": "string",
    "Value": "string"
  }
]
}

```

URI Request Parameters

The request uses the following URI parameters.

commandId

A unique identifier for the command. We recommend using UUID. Alpha-numeric characters, hyphens, and underscores are valid for use here.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A short text description of the command.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]*`

Required: No

displayName

The user-friendly name in the console for the command. This name doesn't have to be unique. You can update the user-friendly name after you define it.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[^\p{C}]*`

Required: No

mandatoryParameters

A list of parameters that are used by `StartCommandExecution` API for execution payload generation.

Type: Array of [CommandParameter](#) objects

Array Members: Minimum number of 1 item.

Required: No

namespace

The namespace of the command. The MQTT reserved topics and validations will be used for command executions according to the namespace setting.

Type: String

Valid Values: `AWS-IoT` | `AWS-IoT-FleetWise`

Required: No

payload

The payload object for the static command.

You can upload a static payload file from your local storage that contains the instructions for the device to process. The payload file can use any format. To make sure that the device correctly interprets the payload, we recommend you to specify the payload content type.

Type: [CommandPayload](#) object

Required: No

payloadTemplate

The payload template for the dynamic command.

Note

This parameter is required for dynamic commands where the command execution placeholders are supplied either from `mandatoryParameters` or when `StartCommandExecution` is invoked.

Type: String

Length Constraints: Maximum length of 32768.

Required: No

preprocessor

Configuration that determines how `payloadTemplate` is processed to generate command execution payload.

Note

This parameter is required for dynamic commands, along with `payloadTemplate`, and `mandatoryParameters`.

Type: [CommandPreprocessor](#) object

Required: No

[roleArn](#)

The IAM role that you must provide when using the AWS-IoT-FleetWise namespace. The role grants IoT Device Management the permission to access IoT FleetWise resources for generating the payload for the command. This field is not supported when you use the AWS-IoT namespace.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

[tags](#)

Name-value pairs that are used as metadata to manage a command.

Type: Array of [Tag](#) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "commandArn": "string",
  "commandId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

commandArn

The Amazon Resource Number (ARN) of the command. For example, `arn:aws:iot:<region>:<accountid>:command/<commandId>`

Type: String

commandId

The unique identifier for the command.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

Errors

ConflictException

The request conflicts with the current state of the resource.

resourceId

A resource with the same name already exists.

HTTP Status Code: 409

InternalServerErrorException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ServiceQuotaExceededException

Service quota has been exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateCustomMetric

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Use this API to define a Custom Metric published by your devices to Device Defender.

Requires permission to access the [CreateCustomMetric](#) action.

Request Syntax

```
POST /custom-metric/metricName HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "clientRequestToken": "string",
  "displayName": "string",
  "metricType": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[metricName](#)

The name of the custom metric. This will be used in the metric report submitted from the device/thing. The name can't begin with `aws:`. You can't change the name after you define it.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientRequestToken

Each custom metric must have a unique client request token. If you try to create a new custom metric that already exists with a different token, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `^[a-zA-Z0-9-_$]`

Required: Yes

displayName

The friendly name in the console for the custom metric. This name doesn't have to be unique. Don't use this name as the metric identifier in the device metric report. You can update the friendly name after you define it.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\p{Graph}\x20]*`

Required: No

metricType

The type of the custom metric.

⚠ Important

The type `number` only takes a single metric value as an input, but when you submit the metrics value in the DeviceMetrics report, you must pass it as an array with a single value.

Type: String

Valid Values: `string-list` | `ip-address-list` | `number-list` | `number`

Required: Yes

tags

Metadata that can be used to manage the custom metric.

Type: Array of [Tag](#) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "metricArn": "string",
  "metricName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

metricArn

The Amazon Resource Number (ARN) of the custom metric. For example, `arn:aws-partition:iot:region:accountId:custommetric/metricName`

Type: String

metricName

The name of the custom metric to be used in the metric report.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateDimension

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Create a dimension that you can use to limit the scope of a metric used in a security profile for AWS IoT Device Defender. For example, using a TOPIC_FILTER dimension, you can narrow down the scope of the metric only to MQTT topics whose name match the pattern specified in the dimension.

Requires permission to access the [CreateDimension](#) action.

Request Syntax

```
POST /dimensions/name HTTP/1.1
Content-type: application/json

{
  "clientRequestToken": "string",
  "stringValue": [ "string" ],
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "type": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

name

A unique identifier for the dimension. Choose something that describes the type and value to make it easy to remember what it does.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

clientRequestToken

Each dimension must have a unique client request token. If you try to create a new dimension with the same token as a dimension that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `^[a-zA-Z0-9-_]+$`

Required: Yes

stringValues

Specifies the value or list of values for the dimension. For `TOPIC_FILTER` dimensions, this is a pattern used to match the MQTT topic (for example, "admin/#").

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

tags

Metadata that can be used to manage the dimension.

Type: Array of [Tag](#) objects

Required: No

[type](#)

Specifies the type of dimension. Supported types: TOPIC_FILTER.

Type: String

Valid Values: TOPIC_FILTER

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "arn": "string",
  "name": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[arn](#)

The Amazon Resource Name (ARN) of the created dimension.

Type: String

[name](#)

A unique identifier for the dimension.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateDomainConfiguration

Service: AWS IoT

Creates a domain configuration.

Requires permission to access the [CreateDomainConfiguration](#) action.

Request Syntax

```
POST /domainConfigurations/domainConfigurationName HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "applicationProtocol": "string",
  "authenticationType": "string",
  "authorizerConfig": {
    "allowAuthorizerOverride": boolean,
    "defaultAuthorizerName": "string"
  },
  "clientCertificateConfig": {
    "clientCertificateCallbackArn": "string"
  },
  "domainName": "string",
  "serverCertificateArns": [ "string" ],
  "serverCertificateConfig": {
    "enableOCSPCheck": boolean,
    "ocspAuthorizedResponderArn": "string",
    "ocspLambdaArn": "string"
  },
  "serviceType": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "tlsConfig": {
    "securityPolicy": "string"
  },
  "validationCertificateArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

domainConfigurationName

The name of the domain configuration. This value must be unique to a region.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w . - ]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

applicationProtocol

An enumerated string that specifies the application-layer protocol.

- SECURE_MQTT - MQTT over TLS.
- MQTT_WSS - MQTT over WebSocket.
- HTTPS - HTTP over TLS.
- DEFAULT - Use a combination of port and Application Layer Protocol Negotiation (ALPN) to specify application_layer protocol. For more information, see [Device communication protocols](#).

Type: String

Valid Values: SECURE_MQTT | MQTT_WSS | HTTPS | DEFAULT

Required: No

authenticationType

An enumerated string that specifies the authentication type.

- CUSTOM_AUTH_X509 - Use custom authentication and authorization with additional details from the X.509 client certificate.

- CUSTOM_AUTH - Use custom authentication and authorization. For more information, see [Custom authentication and authorization](#).
- AWS_X509 - Use X.509 client certificates without custom authentication and authorization. For more information, see [X.509 client certificates](#).
- AWS_SIGV4 - Use AWS Signature Version 4. For more information, see [IAM users, groups, and roles](#).
- DEFAULT - Use a combination of port and Application Layer Protocol Negotiation (ALPN) to specify authentication type. For more information, see [Device communication protocols](#).

Type: String

Valid Values: CUSTOM_AUTH_X509 | CUSTOM_AUTH | AWS_X509 | AWS_SIGV4 | DEFAULT

Required: No

[**authorizerConfig**](#)

An object that specifies the authorization service for a domain.

Type: [AuthorizerConfig](#) object

Required: No

[**clientCertificateConfig**](#)

An object that specifies the client certificate configuration for a domain.

Type: [ClientCertificateConfig](#) object

Required: No

[**domainName**](#)

The name of the domain.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `[\s\S]*`

Required: No

serverCertificateArns

The ARNs of the certificates that AWS IoT passes to the device during the TLS handshake. Currently you can specify only one certificate ARN. This value is not required for AWS-managed domains.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `arn:aws(-cn|-us-gov|-iso-b|-iso)?:acm:[a-z]{2}-(gov-|iso-|isob-)?[a-z]{4,9}-\d{1}:\d{12}:certificate/[a-zA-Z0-9/-]+`

Required: No

serverCertificateConfig

The server certificate configuration.

Type: [ServerCertificateConfig](#) object

Required: No

serviceType

The type of service delivered by the endpoint.

Note

AWS IoT Core currently supports only the DATA service type.

Type: String

Valid Values: DATA | CREDENTIAL_PROVIDER | JOBS

Required: No

tags

Metadata which can be used to manage the domain configuration.

Note

For URI Request parameters use format: ...key1=value1&key2=value2...

For the CLI command-line parameter use format: &&tags "key1=value1&key2=value2..."

For the cli-input-json file use format: "tags": "key1=value1&key2=value2..."

Type: Array of [Tag](#) objects

Required: No

tlsConfig

An object that specifies the TLS configuration for a domain.

Type: [TlsConfig](#) object

Required: No

validationCertificateArn

The certificate used to validate the server certificate and prove domain name ownership. This certificate must be signed by a public certificate authority. This value is not required for AWS-managed domains.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: arn:aws(-cn|-us-gov|-iso-b|-iso)?:acm:[a-z]{2}-(gov-|iso-|isob-)?[a-z]{4,9}-\d{1}:\d{12}:certificate/[a-zA-Z0-9/-]+

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{  
  "domainConfigurationArn": "string",
```

```
"domainConfigurationName": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[domainConfigurationArn](#)

The ARN of the domain configuration.

Type: String

[domainConfigurationName](#)

The name of the domain configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w. - ]+`

Errors

CertificateValidationException

The certificate is invalid.

message

Additional information about the exception.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateDynamicThingGroup

Service: AWS IoT

Creates a dynamic thing group.

Requires permission to access the [CreateDynamicThingGroup](#) action.

Request Syntax

```
POST /dynamic-thing-groups/thingGroupName HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "indexName": "string",
  "queryString": "string",
  "queryVersion": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "thingGroupProperties": {
    "attributePayload": {
      "attributes": {
        "string" : "string"
      },
      "merge": boolean
    },
    "thingGroupDescription": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

thingGroupName

The dynamic thing group name to create.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

indexName

The dynamic thing group index name.

Note

Currently one index is supported: AWS_Things.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

queryString

The dynamic thing group search query string.

See [Query Syntax](#) for information about query string syntax.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

queryVersion

The dynamic thing group query version.

Note

Currently one query version is supported: "2017-09-30". If not specified, the query version defaults to this value.

Type: String

Required: No

tags

Metadata which can be used to manage the dynamic thing group.

Type: Array of [Tag](#) objects

Required: No

thingGroupProperties

The dynamic thing group properties.

Type: [ThingGroupProperties](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "indexName": "string",
  "queryString": "string",
  "queryVersion": "string",
  "thingGroupArn": "string",
  "thingGroupId": "string",
  "thingGroupName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

indexName

The dynamic thing group index name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

queryString

The dynamic thing group search query string.

Type: String

Length Constraints: Minimum length of 1.

queryVersion

The dynamic thing group query version.

Type: String

thingGroupArn

The dynamic thing group ARN.

Type: String

thingGroupId

The dynamic thing group ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-]+

thingGroupName

The dynamic thing group name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidQueryException

The query is invalid.

message

The message for the exception.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateFleetMetric

Service: AWS IoT

Creates a fleet metric.

Requires permission to access the [CreateFleetMetric](#) action.

Request Syntax

```
PUT /fleet-metric/metricName HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "aggregationField": "string",
  "aggregationType": {
    "name": "string",
    "values": [ "string" ]
  },
  "description": "string",
  "indexName": "string",
  "period": number,
  "queryString": "string",
  "queryVersion": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "unit": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

metricName

The name of the fleet metric to create.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_\-\.]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

aggregationField

The field to aggregate.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

aggregationType

The type of the aggregation query.

Type: [AggregationType](#) object

Required: Yes

description

The fleet metric description.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `[\p{Graph}\x20]*`

Required: No

indexName

The name of the index to search.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

period

The time in seconds between fleet metric emissions. Range [60(1 min), 86400(1 day)] and must be multiple of 60.

Type: Integer

Valid Range: Minimum value of 60. Maximum value of 86400.

Required: Yes

queryString

The search query string.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

queryVersion

The query version.

Type: String

Required: No

tags

Metadata, which can be used to manage the fleet metric.

Type: Array of [Tag](#) objects

Required: No

unit

Used to support unit transformation such as milliseconds to seconds. The unit must be supported by [CW metric](#). Default to null.

Type: String

Valid Values: Seconds | Microseconds | Milliseconds | Bytes | Kilobytes | Megabytes | Gigabytes | Terabytes | Bits | Kilobits | Megabits | Gigabits | Terabits | Percent | Count | Bytes/Second | Kilobytes/Second | Megabytes/Second | Gigabytes/Second | Terabytes/Second | Bits/Second | Kilobits/Second | Megabits/Second | Gigabits/Second | Terabits/Second | Count/Second | None

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "metricArn": "string",
  "metricName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[metricArn](#)

The Amazon Resource Name (ARN) of the new fleet metric.

Type: String

[metricName](#)

The name of the fleet metric to create.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_\-\.]+

Errors

IndexNotReadyException

The index is not ready.

message

The message for the exception.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidAggregationException

The aggregation is invalid.

HTTP Status Code: 400

InvalidQueryException

The query is invalid.

message

The message for the exception.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateJob

Service: AWS IoT

Creates a job.

Requires permission to access the [CreateJob](#) action.

Request Syntax

```
PUT /jobs/jobId HTTP/1.1
Content-type: application/json

{
  "abortConfig": {
    "criteriaList": [
      {
        "action": "string",
        "failureType": "string",
        "minNumberOfExecutedThings": number,
        "thresholdPercentage": number
      }
    ]
  },
  "description": "string",
  "destinationPackageVersions": [ "string" ],
  "document": "string",
  "documentParameters": {
    "string" : "string"
  },
  "documentSource": "string",
  "jobExecutionsRetryConfig": {
    "criteriaList": [
      {
        "failureType": "string",
        "numberOfRetries": number
      }
    ]
  },
  "jobExecutionsRolloutConfig": {
    "exponentialRate": {
      "baseRatePerMinute": number,
      "incrementFactor": number,
      "rateIncreaseCriteria": {
```

```

        "numberOfNotifiedThings": number,
        "numberOfSucceededThings": number
    },
    "maximumPerMinute": number
},
"jobTemplateArn": "string",
"namespaceId": "string",
"presignedUrlConfig": {
    "expiresInSec": number,
    "roleArn": "string"
},
"schedulingConfig": {
    "endBehavior": "string",
    "endTime": "string",
    "maintenanceWindows": [
        {
            "durationInMinutes": number,
            "startTime": "string"
        }
    ],
    "startTime": "string"
},
"tags": [
    {
        "Key": "string",
        "Value": "string"
    }
],
"targets": [ "string" ],
"targetSelection": "string",
"timeoutConfig": {
    "inProgressTimeoutInMinutes": number
}
}

```

URI Request Parameters

The request uses the following URI parameters.

jobId

A job identifier which must be unique for your account. We recommend using a UUID. Alpha-numeric characters, "-" and "_" are valid for use here.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

abortConfig

Allows you to create the criteria to abort a job.

Type: [AbortConfig](#) object

Required: No

description

A short text description of the job.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

destinationPackageVersions

The package version Amazon Resource Names (ARNs) that are installed on the device when the job successfully completes. The package version must be in either the Published or Deprecated state when the job deploys. For more information, see [Package version lifecycle](#).

Note:The following Length Constraints relates to a single ARN. Up to 25 package version ARNs are allowed.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:[!-~]+$`

Required: No

document

The job document. Required if you don't specify a value for `documentSource`.

Type: String

Length Constraints: Maximum length of 32768.

Required: No

documentParameters

Parameters of an AWS managed template that you can specify to create the job document.

Note

`documentParameters` can only be used when creating jobs from AWS managed templates. This parameter can't be used with custom job templates or to create jobs from them.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[a-zA-Z0-9_-]+`

Value Length Constraints: Minimum length of 1. Maximum length of 30720.

Value Pattern: `[^\p{C}]+`

Required: No

documentSource

An S3 link, or S3 object URL, to the job document. The link is an Amazon S3 object URL and is required if you don't specify a value for `document`.

For example, `--document-source https://s3.region-code.amazonaws.com/example-firmware/device-firmware.1.0`

For more information, see [Methods for accessing a bucket](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1350.

Required: No

[**jobExecutionsRetryConfig**](#)

Allows you to create the criteria to retry a job.

Type: [**JobExecutionsRetryConfig**](#) object

Required: No

[**jobExecutionsRolloutConfig**](#)

Allows you to create a staged rollout of the job.

Type: [**JobExecutionsRolloutConfig**](#) object

Required: No

[**jobTemplateArn**](#)

The ARN of the job template used to create the job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:[!-~]+$`

Required: No

[**namespaceId**](#)

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

`$aws/things/THING_NAME/jobs/JOB_ID/notify-namespace-NAMESPACE_ID/`

Note

The namespaceId feature is only supported by AWS IoT Greengrass at this time. For more information, see [Setting up AWS IoT Greengrass core devices](#).

Type: String

Pattern: [a-zA-Z0-9_-]+

Required: No

presignedUrlConfig

Configuration information for pre-signed S3 URLs.

Type: [PresignedUrlConfig](#) object

Required: No

schedulingConfig

The configuration that allows you to schedule a job for a future date and time in addition to specifying the end behavior for each job execution.

Type: [SchedulingConfig](#) object

Required: No

tags

Metadata which can be used to manage the job.

Type: Array of [Tag](#) objects

Required: No

targets

A list of things and thing groups to which the job should be sent.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Maximum length of 2048.

Required: Yes

targetSelection

Specifies whether the job will continue to run (CONTINUOUS), or will be complete after all those things specified as targets have completed the job (SNAPSHOT). If continuous, the job may also be run on a thing when a change is detected in a target. For example, a job will run on a thing when the thing is added to a target group, even after the job was completed by all things originally in the group.

Note

We recommend that you use continuous jobs instead of snapshot jobs for dynamic thing group targets. By using continuous jobs, devices that join the group receive the job execution even after the job has been created.

Type: String

Valid Values: CONTINUOUS | SNAPSHOT

Required: No

timeoutConfig

Specifies the amount of time each device has to finish its execution of the job. The timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the time expires, it will be automatically set to TIMED_OUT.

Type: [TimeoutConfig](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "description": "string",
  "jobArn": "string",
```

```
"jobId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[description](#)

The job description.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

[jobArn](#)

The job ARN.

Type: String

[jobId](#)

The unique identifier you assigned to this job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

Errors

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateJobTemplate

Service: AWS IoT

Creates a job template.

Requires permission to access the [CreateJobTemplate](#) action.

Request Syntax

```
PUT /job-templates/jobTemplateId HTTP/1.1
Content-type: application/json

{
  "abortConfig": {
    "criteriaList": [
      {
        "action": "string",
        "failureType": "string",
        "minNumberOfExecutedThings": number,
        "thresholdPercentage": number
      }
    ]
  },
  "description": "string",
  "destinationPackageVersions": [ "string" ],
  "document": "string",
  "documentSource": "string",
  "jobArn": "string",
  "jobExecutionsRetryConfig": {
    "criteriaList": [
      {
        "failureType": "string",
        "numberOfRetries": number
      }
    ]
  },
  "jobExecutionsRolloutConfig": {
    "exponentialRate": {
      "baseRatePerMinute": number,
      "incrementFactor": number,
      "rateIncreaseCriteria": {
        "numberOfNotifiedThings": number,
        "numberOfSucceededThings": number
      }
    }
  }
}
```

```
    }
  },
  "maximumPerMinute": number
},
"maintenanceWindows": [
  {
    "durationInMinutes": number,
    "startTime": "string"
  }
],
"presignedUrlConfig": {
  "expiresInSec": number,
  "roleArn": "string"
},
"tags": [
  {
    "Key": "string",
    "Value": "string"
  }
],
"timeoutConfig": {
  "inProgressTimeoutInMinutes": number
}
}
```

URI Request Parameters

The request uses the following URI parameters.

jobTemplateId

A unique identifier for the job template. We recommend using a UUID. Alpha-numeric characters, "-", and "_" are valid for use here.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[abortConfig](#)

The criteria that determine when and how a job abort takes place.

Type: [AbortConfig](#) object

Required: No

[description](#)

A description of the job document.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: Yes

[destinationPackageVersions](#)

The package version Amazon Resource Names (ARNs) that are installed on the device when the job successfully completes. The package version must be in either the Published or Deprecated state when the job deploys. For more information, see [Package version lifecycle](#).

Note:The following Length Constraints relates to a single ARN. Up to 25 package version ARNs are allowed.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:[!-~]+$`

Required: No

[document](#)

The job document. Required if you don't specify a value for documentSource.

Type: String

Length Constraints: Maximum length of 32768.

Required: No

documentSource

An S3 link, or S3 object URL, to the job document. The link is an Amazon S3 object URL and is required if you don't specify a value for document.

For example, `--document-source https://s3.region-code.amazonaws.com/example-firmware/device-firmware.1.0`

For more information, see [Methods for accessing a bucket](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1350.

Required: No

jobArn

The ARN of the job to use as the basis for the job template.

Type: String

Required: No

jobExecutionsRetryConfig

Allows you to create the criteria to retry a job.

Type: [JobExecutionsRetryConfig](#) object

Required: No

jobExecutionsRolloutConfig

Allows you to create a staged rollout of a job.

Type: [JobExecutionsRolloutConfig](#) object

Required: No

maintenanceWindows

Allows you to configure an optional maintenance window for the rollout of a job document to all devices in the target group for a job.

Type: Array of [MaintenanceWindow](#) objects

Required: No

[presignedUrlConfig](#)

Configuration for pre-signed S3 URLs.

Type: [PresignedUrlConfig](#) object

Required: No

[tags](#)

Metadata that can be used to manage the job template.

Type: Array of [Tag](#) objects

Required: No

[timeoutConfig](#)

Specifies the amount of time each device has to finish its execution of the job. A timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the timer expires, it will be automatically set to TIMED_OUT.

Type: [TimeoutConfig](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "jobTemplateArn": "string",
  "jobTemplateId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

jobTemplateArn

The ARN of the job template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:[!-~]+$`

jobTemplateId

The unique identifier of the job template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

Errors

ConflictException

The request conflicts with the current state of the resource.

resourceId

A resource with the same name already exists.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateKeysAndCertificate

Service: AWS IoT

Creates a 2048-bit RSA key pair and issues an X.509 certificate using the issued public key. You can also call `CreateKeysAndCertificate` over MQTT from a device, for more information, see [Provisioning MQTT API](#).

Note This is the only time AWS IoT issues the private key for this certificate, so it is important to keep it in a secure location.

Requires permission to access the [CreateKeysAndCertificate](#) action.

Request Syntax

```
POST /keys-and-certificate?setAsActive=setAsActive HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[setAsActive](#)

Specifies whether the certificate is active.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificateArn": "string",
  "certificateId": "string",
  "certificatePem": "string",
  "keyPair": {
    "PrivateKey": "string",
    "PublicKey": "string"
  }
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[certificateArn](#)

The ARN of the certificate.

Type: String

[certificateId](#)

The ID of the certificate. AWS IoT issues a default subject name for the certificate (for example, AWS IoT Certificate).

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

[certificatePem](#)

The certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [\\s\\S]*

[keyPair](#)

The generated key pair.

Type: [KeyPair](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateMitigationAction

Service: AWS IoT

Defines an action that can be applied to audit findings by using StartAuditMitigationActionsTask. Only certain types of mitigation actions can be applied to specific check names. For more information, see [Mitigation actions](#). Each mitigation action can apply only one type of change.

Requires permission to access the [CreateMitigationAction](#) action.

Request Syntax

```
POST /mitigationactions/actions/actionName HTTP/1.1
Content-type: application/json
```

```
{
  "actionParams": {
    "addThingsToThingGroupParams": {
      "overrideDynamicGroups": boolean,
      "thingGroupNames": [ "string" ]
    },
    "enableIoTLoggingParams": {
      "logLevel": "string",
      "roleArnForLogging": "string"
    },
    "publishFindingToSnsParams": {
      "topicArn": "string"
    },
    "replaceDefaultPolicyVersionParams": {
      "templateName": "string"
    },
    "updateCACertificateParams": {
      "action": "string"
    },
    "updateDeviceCertificateParams": {
      "action": "string"
    }
  },
  "roleArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

```
]
}
```

URI Request Parameters

The request uses the following URI parameters.

actionName

A friendly name for the action. Choose a friendly name that accurately describes the action (for example, `EnableLoggingAction`).

Length Constraints: Maximum length of 128.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

actionParams

Defines the type of action and the parameters for that action.

Type: [MitigationActionParams](#) object

Required: Yes

roleArn

The ARN of the IAM role that is used to apply the mitigation action.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

tags

Metadata that can be used to manage the mitigation action.

Type: Array of [Tag](#) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "actionArn": "string",
  "actionId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[actionArn](#)

The ARN for the new mitigation action.

Type: String

[actionId](#)

A unique identifier for the new mitigation action.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateOTAUpdate

Service: AWS IoT

Creates an AWS IoT OTA update on a target group of things or groups.

Requires permission to access the [CreateOTAUpdate](#) action.

Request Syntax

```
POST /otaUpdates/otaUpdateId HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "additionalParameters": {
    "string" : "string"
  },
  "awsJobAbortConfig": {
    "abortCriteriaList": [
      {
        "action": "string",
        "failureType": "string",
        "minNumberOfExecutedThings": number,
        "thresholdPercentage": number
      }
    ]
  },
  "awsJobExecutionsRolloutConfig": {
    "exponentialRate": {
      "baseRatePerMinute": number,
      "incrementFactor": number,
      "rateIncreaseCriteria": {
        "numberOfNotifiedThings": number,
        "numberOfSucceededThings": number
      }
    },
    "maximumPerMinute": number
  },
  "awsJobPresignedUrlConfig": {
    "expiresInSec": number
  },
  "awsJobTimeoutConfig": {
    "inProgressTimeoutInMinutes": number
  },
}
```

```

    "description": "string",
    "files": [
      {
        "attributes": {
          "string": "string"
        },
        "codeSigning": {
          "awsSignerJobId": "string",
          "customCodeSigning": {
            "certificateChain": {
              "certificateName": "string",
              "inlineDocument": "string"
            },
            "hashAlgorithm": "string",
            "signature": {
              "inlineDocument": blob
            },
            "signatureAlgorithm": "string"
          },
          "startSigningJobParameter": {
            "destination": {
              "s3Destination": {
                "bucket": "string",
                "prefix": "string"
              }
            },
            "signingProfileName": "string",
            "signingProfileParameter": {
              "certificateArn": "string",
              "certificatePathOnDevice": "string",
              "platform": "string"
            }
          }
        },
        "fileLocation": {
          "s3Location": {
            "bucket": "string",
            "key": "string",
            "version": "string"
          },
          "stream": {
            "fileId": number,
            "streamId": "string"
          }
        }
      }
    ]
  }
}

```

```
    },
    "fileName": "string",
    "fileType": number,
    "fileVersion": "string"
  }
],
"protocols": [ "string" ],
"roleArn": "string",
"tags": [
  {
    "Key": "string",
    "Value": "string"
  }
],
"targets": [ "string" ],
"targetSelection": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

otaUpdateId

The ID of the OTA update to be created.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

additionalParameters

A list of additional OTA update parameters, which are name-value pairs. They won't be sent to devices as a part of the Job document.

Type: String to string map

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Value Pattern: `[\s\S]*`

Required: No

[awsJobAbortConfig](#)

The criteria that determine when and how a job abort takes place.

Type: [AwsJobAbortConfig](#) object

Required: No

[awsJobExecutionsRolloutConfig](#)

Configuration for the rollout of OTA updates.

Type: [AwsJobExecutionsRolloutConfig](#) object

Required: No

[awsJobPresignedUrlConfig](#)

Configuration information for pre-signed URLs.

Type: [AwsJobPresignedUrlConfig](#) object

Required: No

[awsJobTimeoutConfig](#)

Specifies the amount of time each device has to finish its execution of the job. A timer is started when the job execution status is set to `IN_PROGRESS`. If the job execution status is not set to another terminal state before the timer expires, it will be automatically set to `TIMED_OUT`.

Type: [AwsJobTimeoutConfig](#) object

Required: No

[description](#)

The description of the OTA update.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: No

files

The files to be streamed by the OTA update.

Type: Array of [OTAUpdateFile](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

protocols

The protocol used to transfer the OTA update image. Valid values are [HTTP], [MQTT], [HTTP, MQTT]. When both HTTP and MQTT are specified, the target device can choose the protocol.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Valid Values: MQTT | HTTP

Required: No

roleArn

The IAM role that grants AWS IoT Core access to the Amazon S3, AWS IoT jobs and AWS Code Signing resources to create an OTA update job.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

tags

Metadata which can be used to manage updates.

Type: Array of [Tag](#) objects

Required: No

targets

The devices targeted to receive OTA updates.

Type: Array of strings

Array Members: Minimum number of 1 item.

Required: Yes

targetSelection

Specifies whether the update will continue to run (CONTINUOUS), or will be complete after all the things specified as targets have completed the update (SNAPSHOT). If continuous, the update may also be run on a thing when a change is detected in a target. For example, an update will run on a thing when the thing is added to a target group, even after the update was completed by all things originally in the group. Valid values: CONTINUOUS | SNAPSHOT.

Type: String

Valid Values: CONTINUOUS | SNAPSHOT

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "awsIotJobArn": "string",
  "awsIotJobId": "string",
  "otaUpdateArn": "string",
  "otaUpdateId": "string",
  "otaUpdateStatus": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

awsIotJobArn

The AWS IoT job ARN associated with the OTA update.

Type: String

awsIotJobId

The AWS IoT job ID associated with the OTA update.

Type: String

otaUpdateArn

The OTA update ARN.

Type: String

otaUpdateId

The OTA update ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

otaUpdateStatus

The OTA update status.

Type: String

Valid Values: CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_COMPLETE |
CREATE_FAILED | DELETE_IN_PROGRESS | DELETE_FAILED

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreatePackage

Service: AWS IoT

Creates an AWS IoT software package that can be deployed to your fleet.

Requires permission to access the [CreatePackage](#) and [GetIndexingConfiguration](#) actions.

Request Syntax

```
PUT /packages/packageName?clientToken=clientToken HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[clientToken](#)

A unique case-sensitive identifier that you can provide to ensure the idempotency of the request. Don't reuse this client token if a new idempotent request is required.

Length Constraints: Minimum length of 36. Maximum length of 64.

Pattern: `\S{36,64}`

[packageName](#)

The name of the new software package.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9-_.]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A summary of the package being created. This can be used to outline the package's contents or purpose.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `[^\p{C}]+`

Required: No

tags

Metadata that can be used to manage the package.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `^([\p{L}\p{Z}\p{N}_.: /+=\ -@]*)$`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "description": "string",
  "packageArn": "string",
  "packageName": "string"
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

description

The package description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `[^\p{C}]+`

packageArn

The Amazon Resource Name (ARN) for the package.

Type: String

packageName

The name of the software package.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9-_.]+`

Errors

ConflictException

The request conflicts with the current state of the resource.

resourceId

A resource with the same name already exists.

HTTP Status Code: 409

InternalServerErrorException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ServiceQuotaExceededException

Service quota has been exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreatePackageVersion

Service: AWS IoT

Creates a new version for an existing AWS IoT software package.

Requires permission to access the [CreatePackageVersion](#) and [GetIndexingConfiguration](#) actions.

Request Syntax

```
PUT /packages/packageName/versions/versionName?clientToken=clientToken HTTP/1.1
```

Content-type: application/json

```
{
  "artifact": {
    "s3Location": {
      "bucket": "string",
      "key": "string",
      "version": "string"
    }
  },
  "attributes": {
    "string" : "string"
  },
  "description": "string",
  "recipe": "string",
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[clientToken](#)

A unique case-sensitive identifier that you can provide to ensure the idempotency of the request. Don't reuse this client token if a new idempotent request is required.

Length Constraints: Minimum length of 36. Maximum length of 64.

Pattern: `\S{36,64}`

packageName

The name of the associated software package.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9-_.]+

Required: Yes

versionName

The name of the new package version.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-_.]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

artifact

The various build components created during the build process such as libraries and configuration files that make up a software package version.

Type: [PackageVersionArtifact](#) object

Required: No

attributes

Metadata that can be used to define a package version's configuration. For example, the S3 file location, configuration options that are being sent to the device or fleet.

The combined size of all the attributes on a package version is limited to 3KB.

Type: String to string map

Key Length Constraints: Minimum length of 1.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Minimum length of 1.

Value Pattern: `[^\p{C}]+`

Required: No

description

A summary of the package version being created. This can be used to outline the package's contents or purpose.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `[^\p{C}]+`

Required: No

recipe

The inline job document associated with a software package version used for a quick job deployment.

Type: String

Length Constraints: Maximum length of 3072.

Required: No

tags

Metadata that can be used to manage the package version.

Type: String to string map

Map Entries: Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `^([\p{L}\p{Z}\p{N}_.: /+=\ -@]*)$`

Value Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "attributes": {
    "string" : "string"
  },
  "description": "string",
  "errorReason": "string",
  "packageName": "string",
  "packageVersionArn": "string",
  "status": "string",
  "versionName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

attributes

Metadata that were added to the package version that can be used to define a package version's configuration.

Type: String to string map

Key Length Constraints: Minimum length of 1.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Minimum length of 1.

Value Pattern: [^\p{C}]+

description

The package version description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `[^\p{C}]+`

errorReason

Error reason for a package version failure during creation or update.

Type: String

packageName

The name of the associated software package.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9-_.]+`

packageVersionArn

The Amazon Resource Name (ARN) for the package.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:[!-~]+$`

status

The status of the package version. For more information, see [Package version lifecycle](#).

Type: String

Valid Values: DRAFT | PUBLISHED | DEPRECATED

versionName

The name of the new package version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_.]+`

Errors

ConflictException

The request conflicts with the current state of the resource.

resourceId

A resource with the same name already exists.

HTTP Status Code: 409

InternalServerErrorException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ServiceQuotaExceededException

Service quota has been exceeded.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreatePolicy

Service: AWS IoT

Creates an AWS IoT policy.

The created policy is the default version for the policy. This operation creates a policy version with a version identifier of **1** and sets **1** as the policy's default version.

Requires permission to access the [CreatePolicy](#) action.

Request Syntax

```
POST /policies/policyName HTTP/1.1
Content-type: application/json

{
  "policyDocument": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[policyName](#)

The policy name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

policyDocument

The JSON document that describes the policy. **policyDocument** must have a minimum length of 1, with a maximum length of 2048, excluding whitespace.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: `[\s\S]*`

Required: Yes

tags

Metadata which can be used to manage the policy.

Note

For URI Request parameters use format: ...key1=value1&key2=value2...

For the CLI command-line parameter use format: `&&tags "key1=value1&key2=value2..."`

For the cli-input-json file use format: `"tags": "key1=value1&key2=value2..."`

Type: Array of [Tag](#) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "policyArn": "string",
  "policyDocument": "string",
  "policyName": "string",
  "policyVersionId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

policyArn

The policy ARN.

Type: String

policyDocument

The JSON document that describes the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: `[\s\S]*`

policyName

The policy name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

policyVersionId

The policy version ID.

Type: String

Pattern: `[0-9]+`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

MalformedPolicyException

The policy documentation is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreatePolicyVersion

Service: AWS IoT

Creates a new version of the specified AWS IoT policy. To update a policy, create a new policy version. A managed policy can have up to five versions. If the policy has five versions, you must use [DeletePolicyVersion](#) to delete an existing version before you create a new one.

Optionally, you can set the new version as the policy's default version. The default version is the operative version (that is, the version that is in effect for the certificates to which the policy is attached).

Requires permission to access the [CreatePolicyVersion](#) action.

Request Syntax

```
POST /policies/policyName/version?setAsDefault=setAsDefault HTTP/1.1
Content-type: application/json

{
  "policyDocument": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[policyName](#)

The policy name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: Yes

[setAsDefault](#)

Specifies whether the policy version is set as the default. When this parameter is true, the new policy version becomes the operative version (that is, the version that is in effect for the certificates to which the policy is attached).

Request Body

The request accepts the following data in JSON format.

[policyDocument](#)

The JSON document that describes the policy. Minimum length of 1. Maximum length of 2048, excluding whitespace.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: `[\s\S]*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "isDefaultVersion": boolean,
  "policyArn": "string",
  "policyDocument": "string",
  "policyVersionId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[isDefaultVersion](#)

Specifies whether the policy version is the default.

Type: Boolean

[policyArn](#)

The policy ARN.

Type: String

policyDocument

The JSON document that describes the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: `[\s\S]*`

policyVersionId

The policy version ID.

Type: String

Pattern: `[0-9]+`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

MalformedPolicyException

The policy documentation is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

VersionsLimitExceededException

The number of policy versions exceeds the limit.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateProvisioningClaim

Service: AWS IoT

Creates a provisioning claim.

Requires permission to access the [CreateProvisioningClaim](#) action.

Request Syntax

```
POST /provisioning-templates/templateName/provisioning-claim HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateName

The name of the provisioning template to use.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificateId": "string",
  "certificatePem": "string",
  "expiration": number,
  "keyPair": {
    "PrivateKey": "string",
    "PublicKey": "string"
  }
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

certificateId

The ID of the certificate.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

certificatePem

The provisioning claim certificate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: [\\s\\S]*

expiration

The provisioning claim expiration time.

Type: Timestamp

keyPair

The provisioning claim key pair.

Type: [KeyPair](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateProvisioningTemplate

Service: AWS IoT

Creates a provisioning template.

Requires permission to access the [CreateProvisioningTemplate](#) action.

Request Syntax

```
POST /provisioning-templates HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "description": "string",
  "enabled": boolean,
  "preProvisioningHook": {
    "payloadVersion": "string",
    "targetArn": "string"
  },
  "provisioningRoleArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "templateBody": "string",
  "templateName": "string",
  "type": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

description

The description of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[^\p{C}]*`

Required: No

enabled

True to enable the provisioning template, otherwise false.

Type: Boolean

Required: No

preProvisioningHook

Creates a pre-provisioning hook template. Only supports template of type FLEET_PROVISIONING. For more information about provisioning template types, see [type](#).

Type: [ProvisioningHook](#) object

Required: No

provisioningRoleArn

The role ARN for the role associated with the provisioning template. This IoT role grants permission to provision a device.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

tags

Metadata which can be used to manage the provisioning template.

Note

For URI Request parameters use format: `...key1=value1&key2=value2...`

For the CLI command-line parameter use format: `&&tags "key1=value1&key2=value2..."`

For the cli-input-json file use format: `"tags": "key1=value1&key2=value2..."`

Type: Array of [Tag](#) objects

Required: No

[templateBody](#)

The JSON formatted contents of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: `[\s\S]*`

Required: Yes

[templateName](#)

The name of the provisioning template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

[type](#)

The type you define in a provisioning template. You can create a template with only one type. You can't change the template type after its creation. The default value is `FLEET_PROVISIONING`. For more information about provisioning template, see: [Provisioning template](#).

Type: String

Valid Values: `FLEET_PROVISIONING` | `JITP`

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "defaultVersionId": number,
  "templateArn": "string",
  "templateName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[defaultVersionId](#)

The default version of the provisioning template.

Type: Integer

[templateArn](#)

The ARN that identifies the provisioning template.

Type: String

[templateName](#)

The name of the provisioning template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateProvisioningTemplateVersion

Service: AWS IoT

Creates a new version of a provisioning template.

Requires permission to access the [CreateProvisioningTemplateVersion](#) action.

Request Syntax

```
POST /provisioning-templates/templateName/versions?setAsDefault=setAsDefault HTTP/1.1
Content-type: application/json
```

```
{
  "templateBody": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[setAsDefault](#)

Sets a fleet provision template version as the default version.

[templateName](#)

The name of the provisioning template.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

[templateBody](#)

The JSON formatted contents of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: `[\s\S]*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "isDefaultVersion": boolean,
  "templateArn": "string",
  "templateName": "string",
  "versionId": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

isDefaultVersion

True if the provisioning template version is the default version, otherwise false.

Type: Boolean

templateArn

The ARN that identifies the provisioning template.

Type: String

templateName

The name of the provisioning template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

versionId

The version of the provisioning template.

Type: Integer

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

VersionsLimitExceededException

The number of policy versions exceeds the limit.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateRoleAlias

Service: AWS IoT

Creates a role alias.

Requires permission to access the [CreateRoleAlias](#) action.

Important

The value of [credentialDurationSeconds](#) must be less than or equal to the maximum session duration of the IAM role that the role alias references. For more information, see [Modifying a role maximum session duration \(AWS API\)](#) from the AWS Identity and Access Management User Guide.

Request Syntax

```
POST /role-aliases/roleAlias HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "credentialDurationSeconds": number,
  "roleArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[roleAlias](#)

The role alias that points to a role ARN. This allows you to change the role without having to update the device.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=, @- ]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

credentialDurationSeconds

How long (in seconds) the credentials will be valid. The default value is 3,600 seconds.

This value must be less than or equal to the maximum session duration of the IAM role that the role alias references.

Type: Integer

Valid Range: Minimum value of 900. Maximum value of 43200.

Required: No

roleArn

The role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

tags

Metadata which can be used to manage the role alias.

Note

For URI Request parameters use format: `...key1=value1&key2=value2...`

For the CLI command-line parameter use format: `&&tags "key1=value1&key2=value2..."`

For the cli-input-json file use format: `"tags": "key1=value1&key2=value2..."`

Type: Array of [Tag](#) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "roleAlias": "string",
  "roleAliasArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[roleAlias](#)

The role alias.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@- ]+`

[roleAliasArn](#)

The role alias ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateScheduledAudit

Service: AWS IoT

Creates a scheduled audit that is run at a specified time interval.

Requires permission to access the [CreateScheduledAudit](#) action.

Request Syntax

```
POST /audit/scheduledaudits/scheduledAuditName HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "dayOfMonth": "string",
  "dayOfWeek": "string",
  "frequency": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "targetCheckNames": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

scheduledAuditName

The name you want to give to the scheduled audit. (Max. 128 chars)

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

dayOfMonth

The day of the month on which the scheduled audit takes place. This can be "1" through "31" or "LAST". This field is required if the "frequency" parameter is set to MONTHLY. If days 29 to 31 are specified, and the month doesn't have that many days, the audit takes place on the LAST day of the month.

Type: String

Pattern: `^([1-9]|[12][0-9]|3[01])$|^LAST$`

Required: No

dayOfWeek

The day of the week on which the scheduled audit takes place, either SUN, MON, TUE, WED, THU, FRI, or SAT. This field is required if the frequency parameter is set to WEEKLY or BIWEEKLY.

Type: String

Valid Values: SUN | MON | TUE | WED | THU | FRI | SAT

Required: No

frequency

How often the scheduled audit takes place, either DAILY, WEEKLY, BIWEEKLY or MONTHLY. The start time of each audit is determined by the system.

Type: String

Valid Values: DAILY | WEEKLY | BIWEEKLY | MONTHLY

Required: Yes

tags

Metadata that can be used to manage the scheduled audit.

Type: Array of [Tag](#) objects

Required: No

targetCheckNames

Which checks are performed during the scheduled audit. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including

those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: Array of strings

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "scheduledAuditArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[scheduledAuditArn](#)

The ARN of the scheduled audit.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateSecurityProfile

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Creates a Device Defender security profile.

Requires permission to access the [CreateSecurityProfile](#) action.

Request Syntax

POST /security-profiles/*securityProfileName* HTTP/1.1

Content-type: application/json

```
{
  "additionalMetricsToRetain": [ "string" ],
  "additionalMetricsToRetainV2": [
    {
      "exportMetric": boolean,
      "metric": "string",
      "metricDimension": {
        "dimensionName": "string",
        "operator": "string"
      }
    }
  ],
  "alertTargets": {
    "string" : {
      "alertTargetArn": "string",
      "roleArn": "string"
    }
  },
  "behaviors": [
    {
      "criteria": {
```

```

    "comparisonOperator": "string",
    "consecutiveDatapointsToAlarm": number,
    "consecutiveDatapointsToClear": number,
    "durationSeconds": number,
    "mlDetectionConfig": {
        "confidenceLevel": "string"
    },
    "statisticalThreshold": {
        "statistic": "string"
    },
    "value": {
        "cids": [ "string" ],
        "count": number,
        "number": number,
        "numbers": [ number ],
        "ports": [ number ],
        "strings": [ "string" ]
    }
},
"exportMetric": boolean,
"metric": "string",
"metricDimension": {
    "dimensionName": "string",
    "operator": "string"
},
"name": "string",
"suppressAlerts": boolean
}
],
"metricsExportConfig": {
    "mqttTopic": "string",
    "roleArn": "string"
},
"securityProfileDescription": "string",
"tags": [
    {
        "Key": "string",
        "Value": "string"
    }
]
}

```

URI Request Parameters

The request uses the following URI parameters.

[securityProfileName](#)

The name you are giving to the security profile.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[additionalMetricsToRetain](#)

This parameter has been deprecated.

Please use [CreateSecurityProfile:additionalMetricsToRetainV2](#) instead.

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here. Can be used with custom metrics; cannot be used with dimensions.

Type: Array of strings

Required: No

[additionalMetricsToRetainV2](#)

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here. Can be used with custom metrics; cannot be used with dimensions.

Type: Array of [MetricToRetain](#) objects

Required: No

alertTargets

Specifies the destinations to which alerts are sent. (Alerts are always sent to the console.) Alerts are generated when a device (thing) violates a behavior.

Type: String to [AlertTarget](#) object map

Valid Keys: SNS

Required: No

behaviors

Specifies the behaviors that, when violated by a device (thing), cause an alert.

Type: Array of [Behavior](#) objects

Array Members: Maximum number of 100 items.

Required: No

metricsExportConfig

Specifies the MQTT topic and role ARN required for metric export.

Type: [MetricsExportConfig](#) object

Required: No

securityProfileDescription

A description of the security profile.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [[\p{Graph}](#)]{1,1000}

Required: No

tags

Metadata that can be used to manage the security profile.

Type: Array of [Tag](#) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "securityProfileArn": "string",
  "securityProfileName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[securityProfileArn](#)

The ARN of the security profile.

Type: String

[securityProfileName](#)

The name you gave to the security profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateStream

Service: AWS IoT

Creates a stream for delivering one or more large files in chunks over MQTT. A stream transports data bytes in chunks or blocks packaged as MQTT messages from a source like S3. You can have one or more files associated with a stream.

Requires permission to access the [CreateStream](#) action.

Request Syntax

```
POST /streams/streamId HTTP/1.1
Content-type: application/json
```

```
{
  "description": "string",
  "files": [
    {
      "fileId": number,
      "s3Location": {
        "bucket": "string",
        "key": "string",
        "version": "string"
      }
    }
  ],
  "roleArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

streamId

The stream ID.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

A description of the stream.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]+

Required: No

files

The files to stream.

Type: Array of [StreamFile](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: Yes

roleArn

An IAM role that allows the IoT service principal to access your S3 files.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

tags

Metadata which can be used to manage streams.

Type: Array of [Tag](#) objects

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "description": "string",
  "streamArn": "string",
  "streamId": "string",
  "streamVersion": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[description](#)

A description of the stream.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

[streamArn](#)

The stream ARN.

Type: String

[streamId](#)

The stream ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

streamVersion

The version of the stream.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateThing

Service: AWS IoT

Creates a thing record in the registry. If this call is made multiple times using the same thing name and configuration, the call will succeed. If this call is made with the same thing name but different configuration a `ResourceAlreadyExistsException` is thrown.

Note

This is a control plane operation. See [Authorization](#) for information about authorizing control plane actions.

Requires permission to access the [CreateThing](#) action.

Request Syntax

```
POST /things/thingName HTTP/1.1
Content-type: application/json
```

```
{
  "attributePayload": {
    "attributes": {
      "string" : "string"
    },
    "merge": boolean
  },
  "billingGroupName": "string",
  "thingTypeName": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingName](#)

The name of the thing to create.

You can't change a thing's name after you create it. To change a thing's name, you must create a new thing, give it the new name, and then delete the old thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

attributePayload

The attribute payload, which consists of up to three name/value pairs in a JSON document. For example:

```
{\"attributes\":{\"string1\": \"string2\"}}
```

Type: [AttributePayload](#) object

Required: No

billingGroupName

The name of the billing group the thing will be added to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingTypeName

The name of the thing type associated with the new thing.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "thingArn": "string",
  "thingId": "string",
  "thingName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[thingArn](#)

The ARN of the new thing.

Type: String

[thingId](#)

The thing ID.

Type: String

[thingName](#)

The name of the new thing.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateThingGroup

Service: AWS IoT

Create a thing group.

Note

This is a control plane operation. See [Authorization](#) for information about authorizing control plane actions.

If the ThingGroup that you create has the exact same attributes as an existing ThingGroup, you will get a 200 success response.

Requires permission to access the [CreateThingGroup](#) action.

Request Syntax

POST /thing-groups/*thingGroupName* HTTP/1.1

Content-type: application/json

```
{
  "parentGroupName": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "thingGroupProperties": {
    "attributePayload": {
      "attributes": {
        "string" : "string"
      },
      "merge": boolean
    },
    "thingGroupDescription": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingGroupName](#)

The thing group name to create.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[parentGroupName](#)

The name of the parent thing group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

[tags](#)

Metadata which can be used to manage the thing group.

Type: Array of [Tag](#) objects

Required: No

[thingGroupProperties](#)

The thing group properties.

Type: [ThingGroupProperties](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "thingGroupArn": "string",
  "thingGroupId": "string",
  "thingGroupName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[thingGroupArn](#)

The thing group ARN.

Type: String

[thingGroupId](#)

The thing group ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-]+

[thingGroupName](#)

The thing group name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateThingType

Service: AWS IoT

Creates a new thing type. If this call is made multiple times using the same thing type name and configuration, the call will succeed. If this call is made with the same thing type name but different configuration a `ResourceAlreadyExistsException` is thrown.

Requires permission to access the [CreateThingType](#) action.

Request Syntax

```
POST /thing-types/thingTypeName HTTP/1.1
Content-type: application/json

{
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "thingTypeProperties": {
    "mqtt5Configuration": {
      "propagatingAttributes": [
        {
          "connectionAttribute": "string",
          "thingAttribute": "string",
          "userPropertyKey": "string"
        }
      ]
    },
    "searchableAttributes": [ "string" ],
    "thingTypeDescription": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingTypeName](#)

The name of the thing type.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

tags

Metadata which can be used to manage the thing type.

Type: Array of [Tag](#) objects

Required: No

thingTypeProperties

The ThingTypeProperties for the thing type to create. It contains information about the new thing type including a description, and a list of searchable thing attribute names.

Type: [ThingTypeProperties](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "thingTypeArn": "string",
  "thingTypeId": "string",
  "thingTypeName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[thingTypeArn](#)

The Amazon Resource Name (ARN) of the thing type.

Type: String

[thingTypeId](#)

The thing type ID.

Type: String

[thingTypeName](#)

The name of the thing type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateTopicRule

Service: AWS IoT

Creates a rule. Creating rules is an administrator-level action. Any user who has permission to create rules will be able to access data processed by the rule.

Requires permission to access the [CreateTopicRule](#) action.

Request Syntax

```
POST /rules/ruleName HTTP/1.1
x-amz-tagging: tags
Content-type: application/json

{
  "actions": [
    {
      "cloudwatchAlarm": {
        "alarmName": "string",
        "roleArn": "string",
        "stateReason": "string",
        "stateValue": "string"
      },
      "cloudwatchLogs": {
        "batchMode": boolean,
        "logGroupName": "string",
        "roleArn": "string"
      },
      "cloudwatchMetric": {
        "metricName": "string",
        "metricNamespace": "string",
        "metricTimestamp": "string",
        "metricUnit": "string",
        "metricValue": "string",
        "roleArn": "string"
      },
      "dynamoDB": {
        "hashKeyField": "string",
        "hashKeyType": "string",
        "hashKeyValue": "string",
        "operation": "string",
        "payloadField": "string",
        "rangeKeyField": "string",
```

```
    "rangeKeyType": "string",
    "rangeKeyValue": "string",
    "roleArn": "string",
    "tableName": "string"
  },
  "dynamoDBv2": {
    "putItem": {
      "tableName": "string"
    },
    "roleArn": "string"
  },
  "elasticsearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
  },
  "firehose": {
    "batchMode": boolean,
    "deliveryStreamName": "string",
    "roleArn": "string",
    "separator": "string"
  },
  "http": {
    "auth": {
      "sigv4": {
        "roleArn": "string",
        "serviceName": "string",
        "signingRegion": "string"
      }
    },
    "batchConfig": {
      "batchAcrossTopics": boolean,
      "maxBatchOpenMs": number,
      "maxBatchSize": number,
      "maxBatchSizeBytes": number
    },
    "confirmationUrl": "string",
    "enableBatching": boolean,
    "headers": [
      {
        "key": "string",
        "value": "string"
      }
    ]
  }
}
```

```

    }
  ],
  "url": "string"
},
"iotAnalytics": {
  "batchMode": boolean,
  "channelArn": "string",
  "channelName": "string",
  "roleArn": "string"
},
"iotEvents": {
  "batchMode": boolean,
  "inputName": "string",
  "messageId": "string",
  "roleArn": "string"
},
"iotSiteWise": {
  "putAssetPropertyValueEntries": [
    {
      "assetId": "string",
      "entryId": "string",
      "propertyAlias": "string",
      "propertyId": "string",
      "propertyValues": [
        {
          "quality": "string",
          "timestamp": {
            "offsetInNanos": "string",
            "timeInSeconds": "string"
          },
          "value": {
            "booleanValue": "string",
            "doubleValue": "string",
            "integerValue": "string",
            "stringValue": "string"
          }
        }
      ]
    }
  ]
},
"roleArn": "string"
},
"kafka": {
  "clientProperties": {

```

```
    "string" : "string"
  },
  "destinationArn": "string",
  "headers": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "key": "string",
  "partition": "string",
  "topic": "string"
},
"kinesis": {
  "partitionKey": "string",
  "roleArn": "string",
  "streamName": "string"
},
"lambda": {
  "functionArn": "string"
},
"location": {
  "deviceId": "string",
  "latitude": "string",
  "longitude": "string",
  "roleArn": "string",
  "timestamp": {
    "unit": "string",
    "value": "string"
  },
  "trackerName": "string"
},
"openSearch": {
  "endpoint": "string",
  "id": "string",
  "index": "string",
  "roleArn": "string",
  "type": "string"
},
"republish": {
  "headers": {
    "contentType": "string",
    "correlationData": "string",
    "messageExpiry": "string",
```

```

    "payloadFormatIndicator": "string",
    "responseTopic": "string",
    "userProperties": [
      {
        "key": "string",
        "value": "string"
      }
    ],
    },
    "qos": number,
    "roleArn": "string",
    "topic": "string"
  },
  "s3": {
    "bucketName": "string",
    "cannedAcl": "string",
    "key": "string",
    "roleArn": "string"
  },
  "salesforce": {
    "token": "string",
    "url": "string"
  },
  "sns": {
    "messageFormat": "string",
    "roleArn": "string",
    "targetArn": "string"
  },
  "sqs": {
    "queueUrl": "string",
    "roleArn": "string",
    "useBase64": boolean
  },
  "stepFunctions": {
    "executionNamePrefix": "string",
    "roleArn": "string",
    "stateMachineName": "string"
  },
  "timestream": {
    "databaseName": "string",
    "dimensions": [
      {
        "name": "string",
        "value": "string"
      }
    ]
  }
}

```

```

    }
  ],
  "roleArn": "string",
  "tableName": "string",
  "timestamp": {
    "unit": "string",
    "value": "string"
  }
}
}
],
"awsIotSqlVersion": "string",
"description": "string",
"errorAction": {
  "cloudwatchAlarm": {
    "alarmName": "string",
    "roleArn": "string",
    "stateReason": "string",
    "stateValue": "string"
  },
  "cloudwatchLogs": {
    "batchMode": boolean,
    "logGroupName": "string",
    "roleArn": "string"
  },
  "cloudwatchMetric": {
    "metricName": "string",
    "metricNamespace": "string",
    "metricTimestamp": "string",
    "metricUnit": "string",
    "metricValue": "string",
    "roleArn": "string"
  },
  "dynamoDB": {
    "hashKeyField": "string",
    "hashKeyType": "string",
    "hashKeyValue": "string",
    "operation": "string",
    "payloadField": "string",
    "rangeKeyField": "string",
    "rangeKeyType": "string",
    "rangeKeyValue": "string",
    "roleArn": "string",
    "tableName": "string"
  }
}

```

```
},
  "dynamoDBv2": {
    "putItem": {
      "tableName": "string"
    },
    "roleArn": "string"
  },
  "elasticsearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
  },
  "firehose": {
    "batchMode": boolean,
    "deliveryStreamName": "string",
    "roleArn": "string",
    "separator": "string"
  },
  "http": {
    "auth": {
      "sigv4": {
        "roleArn": "string",
        "serviceName": "string",
        "signingRegion": "string"
      }
    },
    "batchConfig": {
      "batchAcrossTopics": boolean,
      "maxBatchOpenMs": number,
      "maxBatchSize": number,
      "maxBatchSizeBytes": number
    },
    "confirmationUrl": "string",
    "enableBatching": boolean,
    "headers": [
      {
        "key": "string",
        "value": "string"
      }
    ],
    "url": "string"
  },
}
```

```

    "iotAnalytics": {
        "batchMode": boolean,
        "channelArn": "string",
        "channelName": "string",
        "roleArn": "string"
    },
    "iotEvents": {
        "batchMode": boolean,
        "inputName": "string",
        "messageId": "string",
        "roleArn": "string"
    },
    "iotSiteWise": {
        "putAssetPropertyValueEntries": [
            {
                "assetId": "string",
                "entryId": "string",
                "propertyAlias": "string",
                "propertyId": "string",
                "propertyValues": [
                    {
                        "quality": "string",
                        "timestamp": {
                            "offsetInNanos": "string",
                            "timeInSeconds": "string"
                        },
                        "value": {
                            "booleanValue": "string",
                            "doubleValue": "string",
                            "integerValue": "string",
                            "stringValue": "string"
                        }
                    }
                ]
            }
        ],
        "roleArn": "string"
    },
    "kafka": {
        "clientProperties": {
            "string" : "string"
        },
        "destinationArn": "string",
        "headers": [

```



```

        {
            "key": "string",
            "value": "string"
        }
    ],
    "key": "string",
    "partition": "string",
    "topic": "string"
},
"kinesis": {
    "partitionKey": "string",
    "roleArn": "string",
    "streamName": "string"
},
"lambda": {
    "functionArn": "string"
},
"location": {
    "deviceId": "string",
    "latitude": "string",
    "longitude": "string",
    "roleArn": "string",
    "timestamp": {
        "unit": "string",
        "value": "string"
    },
    "trackerName": "string"
},
"openSearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
},
"republish": {
    "headers": {
        "contentType": "string",
        "correlationData": "string",
        "messageExpiry": "string",
        "payloadFormatIndicator": "string",
        "responseTopic": "string",
        "userProperties": [
            {

```

```

        "key": "string",
        "value": "string"
    }
]
},
"qos": number,
"roleArn": "string",
"topic": "string"
},
"s3": {
    "bucketName": "string",
    "cannedAcl": "string",
    "key": "string",
    "roleArn": "string"
},
"salesforce": {
    "token": "string",
    "url": "string"
},
"sns": {
    "messageFormat": "string",
    "roleArn": "string",
    "targetArn": "string"
},
"sqs": {
    "queueUrl": "string",
    "roleArn": "string",
    "useBase64": boolean
},
"stepFunctions": {
    "executionNamePrefix": "string",
    "roleArn": "string",
    "stateMachineName": "string"
},
"timestream": {
    "databaseName": "string",
    "dimensions": [
        {
            "name": "string",
            "value": "string"
        }
    ],
    "roleArn": "string",
    "tableName": "string",

```

```
    "timestamp": {  
      "unit": "string",  
      "value": "string"  
    }  
  },  
  "ruleDisabled": boolean,  
  "sql": "string"  
}
```

URI Request Parameters

The request uses the following URI parameters.

ruleName

The name of the rule.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_]+$`

Required: Yes

tags

Metadata which can be used to manage the topic rule.

Note

For URI Request parameters use format: `...key1=value1&key2=value2...`

For the CLI command-line parameter use format: `--tags "key1=value1&key2=value2..."`

For the cli-input-json file use format: `"tags": "key1=value1&key2=value2..."`

Request Body

The request accepts the following data in JSON format.

actions

The actions associated with the rule.

Type: Array of [Action](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: Yes

[**awsIotSqlVersion**](#)

The version of the SQL rules engine to use when evaluating the rule.

Type: String

Required: No

[**description**](#)

The description of the rule.

Type: String

Required: No

[**errorAction**](#)

The action to take when an error occurs.

Type: [Action](#) object

Required: No

[**ruleDisabled**](#)

Specifies whether the rule is disabled.

Type: Boolean

Required: No

[**sql**](#)

The SQL statement used to query the topic. For more information, see [AWS IoT SQL Reference](#) in the *AWS IoT Developer Guide*.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

SqlParseException

The Rule-SQL expression can't be parsed correctly.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

CreateTopicRuleDestination

Service: AWS IoT

Creates a topic rule destination. The destination must be confirmed prior to use.

Requires permission to access the [CreateTopicRuleDestination](#) action.

Request Syntax

```
POST /destinations HTTP/1.1
Content-type: application/json

{
  "destinationConfiguration": {
    "httpUrlConfiguration": {
      "confirmationUrl": "string"
    },
    "vpcConfiguration": {
      "roleArn": "string",
      "securityGroups": [ "string" ],
      "subnetIds": [ "string" ],
      "vpcId": "string"
    }
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

destinationConfiguration

The topic rule destination configuration.

Type: [TopicRuleDestinationConfiguration](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "topicRuleDestination": {
    "arn": "string",
    "createdAt": number,
    "httpUrlProperties": {
      "confirmationUrl": "string"
    },
    "lastUpdatedAt": number,
    "status": "string",
    "statusReason": "string",
    "vpcProperties": {
      "roleArn": "string",
      "securityGroups": [ "string" ],
      "subnetIds": [ "string" ],
      "vpcId": "string"
    }
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

topicRuleDestination

The topic rule destination.

Type: [TopicRuleDestination](#) object

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteAccountAuditConfiguration

Service: AWS IoT

Restores the default settings for Device Defender audits for this account. Any configuration data you entered is deleted and all audit checks are reset to disabled.

Requires permission to access the [DeleteAccountAuditConfiguration](#) action.

Request Syntax

```
DELETE /audit/configuration?deleteScheduledAudits=deleteScheduledAudits HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[deleteScheduledAudits](#)

If true, all scheduled audits are deleted.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteAuditSuppression

Service: AWS IoT

Deletes a Device Defender audit suppression.

Requires permission to access the [DeleteAuditSuppression](#) action.

Request Syntax

```
POST /audit/suppressions/delete HTTP/1.1
Content-type: application/json

{
  "checkName": "string",
  "resourceIdentifier": {
    "account": "string",
    "caCertificateId": "string",
    "clientId": "string",
    "cognitoIdentityPoolId": "string",
    "deviceCertificateArn": "string",
    "deviceCertificateId": "string",
    "iamRoleArn": "string",
    "issuerCertificateIdentifier": {
      "issuerCertificateSerialNumber": "string",
      "issuerCertificateSubject": "string",
      "issuerId": "string"
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

checkName

An audit check name. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: String

Required: Yes

resourceIdentifier

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteAuthorizer

Service: AWS IoT

Deletes an authorizer.

Requires permission to access the [DeleteAuthorizer](#) action.

Request Syntax

```
DELETE /authorizer/authorizerName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[authorizerName](#)

The name of the authorizer to delete.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=, @- ]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

message

The message for the exception.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteBillingGroup

Service: AWS IoT

Deletes the billing group.

Requires permission to access the [DeleteBillingGroup](#) action.

Request Syntax

```
DELETE /billing-groups/billingGroupName?expectedVersion=expectedVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

billingGroupName

The name of the billing group.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

expectedVersion

The expected version of the billing group. If the version of the billing group does not match the expected version specified in the request, the DeleteBillingGroup request is rejected with a VersionConflictException.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteCACertificate

Service: AWS IoT

Deletes a registered CA certificate.

Requires permission to access the [DeleteCACertificate](#) action.

Request Syntax

```
DELETE /cacertificate/caCertificateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

caCertificateId

The ID of the certificate to delete. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

CertificateStateException

The certificate operation is not allowed.

message

The message for the exception.

HTTP Status Code: 406

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteCertificate

Service: AWS IoT

Deletes the specified certificate.

A certificate cannot be deleted if it has a policy or IoT thing attached to it or if its status is set to ACTIVE. To delete a certificate, first use the [DetachPolicy](#) action to detach all policies. Next, use the [UpdateCertificate](#) action to set the certificate to the INACTIVE status.

Requires permission to access the [DeleteCertificate](#) action.

Request Syntax

```
DELETE /certificates/certificateId?forceDelete=forceDelete HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[certificateId](#)

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

[forceDelete](#)

Forces the deletion of a certificate if it is inactive and is not attached to an IoT thing.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

CertificateStateException

The certificate operation is not allowed.

message

The message for the exception.

HTTP Status Code: 406

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

message

The message for the exception.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteCertificateProvider

Service: AWS IoT

Deletes a certificate provider.

Requires permission to access the [DeleteCertificateProvider](#) action.

If you delete the certificate provider resource, the behavior of `CreateCertificateFromCsr` will resume, and AWS IoT will create certificates signed by AWS IoT from a certificate signing request (CSR).

Request Syntax

```
DELETE /certificate-providers/certificateProviderName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

certificateProviderName

The name of the certificate provider.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@- ]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

message

The message for the exception.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteCommand

Service: AWS IoT

Delete a command resource.

Request Syntax

```
DELETE /commands/commandId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

commandId

The unique identifier of the command to be deleted.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 statusCode
```

Response Elements

If the action is successful, the service sends back the following HTTP response.

statusCode

The status code for the command deletion request. The status code is in the 200 range for a successful request.

- If the command hasn't been deprecated, or has been deprecated for a duration that is shorter than the maximum time out duration of 12 hours, when calling the `DeleteCommand` request, the deletion will be scheduled and a 202 status code will be returned. While the command is being deleted, it will be in a `pendingDeletion` state. Once the time out duration has been reached, the command will be permanently removed from your account.
- If the command has been deprecated for a duration that is longer than the maximum time out duration of 12 hours, when calling the `DeleteCommand` request, the command will be deleted immediately and a 204 status code will be returned.

Errors

ConflictException

The request conflicts with the current state of the resource.

resourceId

A resource with the same name already exists.

HTTP Status Code: 409

InternalServerErrorException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteCommandExecution

Service: AWS IoT

Delete a command execution.

Note

Only command executions that enter a terminal state can be deleted from your account.

Request Syntax

```
DELETE /command-executions/executionId?targetArn=targetArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

executionId

The unique identifier of the command execution that you want to delete from your account.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

targetArn

The Amazon Resource Number (ARN) of the target device for which you want to delete command executions.

Length Constraints: Maximum length of 2048.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictException

The request conflicts with the current state of the resource.

resourceId

A resource with the same name already exists.

HTTP Status Code: 409

InternalServerErrorException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteCustomMetric

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Deletes a Device Defender detect custom metric.

Requires permission to access the [DeleteCustomMetric](#) action.

Note

Before you can delete a custom metric, you must first remove the custom metric from all security profiles it's a part of. The security profile associated with the custom metric can be found using the [ListSecurityProfiles](#) API with `metricName` set to your custom metric name.

Request Syntax

```
DELETE /custom-metric/metricName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

metricName

The name of the custom metric.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteDimension

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Removes the specified dimension from your AWS accounts.

Requires permission to access the [DeleteDimension](#) action.

Request Syntax

```
DELETE /dimensions/name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

name

The unique identifier for the dimension that you want to delete.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteDomainConfiguration

Service: AWS IoT

Deletes the specified domain configuration.

Requires permission to access the [DeleteDomainConfiguration](#) action.

Request Syntax

```
DELETE /domainConfigurations/domainConfigurationName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

domainConfigurationName

The name of the domain configuration to be deleted.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w.-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteDynamicThingGroup

Service: AWS IoT

Deletes a dynamic thing group.

Requires permission to access the [DeleteDynamicThingGroup](#) action.

Request Syntax

```
DELETE /dynamic-thing-groups/thingGroupName?expectedVersion=expectedVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[expectedVersion](#)

The expected version of the dynamic thing group to delete.

[thingGroupName](#)

The name of the dynamic thing group to delete.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteFleetMetric

Service: AWS IoT

Deletes the specified fleet metric. Returns successfully with no error if the deletion is successful or you specify a fleet metric that doesn't exist.

Requires permission to access the [DeleteFleetMetric](#) action.

Request Syntax

```
DELETE /fleet-metric/metricName?expectedVersion=expectedVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[expectedVersion](#)

The expected version of the fleet metric to delete.

[metricName](#)

The name of the fleet metric to delete.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_\-\.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteJob

Service: AWS IoT

Deletes a job and its related job executions.

Deleting a job may take time, depending on the number of job executions created for the job and various other factors. While the job is being deleted, the status of the job will be shown as "DELETION_IN_PROGRESS". Attempting to delete or cancel a job whose status is already "DELETION_IN_PROGRESS" will result in an error.

Only 10 jobs may have status "DELETION_IN_PROGRESS" at the same time, or a `LimitExceededException` will occur.

Requires permission to access the [DeleteJob](#) action.

Request Syntax

```
DELETE /jobs/jobId?force=force&namespaceId=namespaceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

force

(Optional) When true, you can delete a job which is "IN_PROGRESS". Otherwise, you can only delete a job which is in a terminal state ("COMPLETED" or "CANCELED") or an exception will occur. The default is false.

Note

Deleting a job which is "IN_PROGRESS", will cause a device which is executing the job to be unable to access job information or update the job execution status. Use caution and ensure that each device executing a job which is deleted is able to recover to a valid state.

jobId

The ID of the job to be deleted.

After a job deletion is completed, you may reuse this jobId when you create a new job. However, this is not recommended, and you must ensure that your devices are not using the jobId to refer to the deleted job.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

namespaceId

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

`$aws/things/THING_NAME/jobs/JOB_ID/notify-namespace-NAMESPACE_ID/`

Note

The namespaceId feature is only supported by AWS IoT Greengrass at this time. For more information, see [Setting up AWS IoT Greengrass core devices](#).

Pattern: `[a-zA-Z0-9_-]+`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

InvalidStateTransitionException

An attempt was made to change to an invalid state, for example by deleting a job or a job execution which is "IN_PROGRESS" without setting the force parameter.

message

The message for the exception.

HTTP Status Code: 409

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteJobExecution

Service: AWS IoT

Deletes a job execution.

Requires permission to access the [DeleteJobExecution](#) action.

Request Syntax

```
DELETE /things/thingName/jobs/jobId/executionNumber/executionNumber?  
force=force&namespaceId=namespaceId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

executionNumber

The ID of the job execution to be deleted. The `executionNumber` refers to the execution of a particular job on a particular device.

Note that once a job execution is deleted, the `executionNumber` may be reused by IoT, so be sure you get and use the correct value here.

Required: Yes

force

(Optional) When true, you can delete a job execution which is "IN_PROGRESS". Otherwise, you can only delete a job execution which is in a terminal state ("SUCCEEDED", "FAILED", "REJECTED", "REMOVED" or "CANCELED") or an exception will occur. The default is false.

Note

Deleting a job execution which is "IN_PROGRESS", will cause the device to be unable to access job information or update the job execution status. Use caution and ensure that the device is able to recover to a valid state.

jobId

The ID of the job whose execution on a particular device will be deleted.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

namespaceId

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

`$aws/things/THING_NAME/jobs/JOB_ID/notify-namespace-NAMESPACE_ID/`

Note

The namespaceId feature is only supported by AWS IoT Greengrass at this time. For more information, see [Setting up AWS IoT Greengrass core devices](#).

Pattern: `[a-zA-Z0-9_-]+`

thingName

The name of the thing whose job execution will be deleted.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

InvalidStateTransitionException

An attempt was made to change to an invalid state, for example by deleting a job or a job execution which is "IN_PROGRESS" without setting the force parameter.

message

The message for the exception.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteJobTemplate

Service: AWS IoT

Deletes the specified job template.

Request Syntax

```
DELETE /job-templates/jobTemplateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

jobTemplateId

The unique identifier of the job template to delete.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteMitigationAction

Service: AWS IoT

Deletes a defined mitigation action from your AWS accounts.

Requires permission to access the [DeleteMitigationAction](#) action.

Request Syntax

```
DELETE /mitigationactions/actions/actionName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[actionName](#)

The name of the mitigation action that you want to delete.

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteOTAUpdate

Service: AWS IoT

Delete an OTA update.

Requires permission to access the [DeleteOTAUpdate](#) action.

Request Syntax

```
DELETE /otaUpdates/otaUpdateId?  
deleteStream=deleteStream&forceDeleteAWSJob=forceDeleteAWSJob HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[deleteStream](#)

When true, the stream created by the OTAUpdate process is deleted when the OTA update is deleted. Ignored if the stream specified in the OTAUpdate is supplied by the user.

[forceDeleteAWSJob](#)

When true, deletes the AWS IoT job created by the OTAUpdate process even if it is "IN_PROGRESS". Otherwise, if the job is not in a terminal state ("COMPLETED" or "CANCELED") an exception will occur. The default is false.

[otaUpdateId](#)

The ID of the OTA update to delete.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeletePackage

Service: AWS IoT

Deletes a specific version from a software package.

Note: All package versions must be deleted before deleting the software package.

Requires permission to access the [DeletePackageVersion](#) action.

Request Syntax

```
DELETE /packages/packageName?clientToken=clientToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[clientToken](#)

A unique case-sensitive identifier that you can provide to ensure the idempotency of the request. Don't reuse this client token if a new idempotent request is required.

Length Constraints: Minimum length of 36. Maximum length of 64.

Pattern: `\S{36,64}`

[packageName](#)

The name of the target software package.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9-_.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalServerErrorException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeletePackageVersion

Service: AWS IoT

Deletes a specific version from a software package.

Note: If a package version is designated as default, you must remove the designation from the software package using the [UpdatePackage](#) action.

Request Syntax

```
DELETE /packages/packageName/versions/versionName?clientToken=clientToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[clientToken](#)

A unique case-sensitive identifier that you can provide to ensure the idempotency of the request. Don't reuse this client token if a new idempotent request is required.

Length Constraints: Minimum length of 36. Maximum length of 64.

Pattern: `\S{36,64}`

[packageName](#)

The name of the associated software package.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9-_.]+`

Required: Yes

[versionName](#)

The name of the target package version.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalServerError

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeletePolicy

Service: AWS IoT

Deletes the specified policy.

A policy cannot be deleted if it has non-default versions or it is attached to any certificate.

To delete a policy, use the [DeletePolicyVersion](#) action to delete all non-default versions of the policy; use the [DetachPolicy](#) action to detach the policy from any certificate; and then use the DeletePolicy action to delete the policy.

When a policy is deleted using DeletePolicy, its default version is deleted with it.

Note

Because of the distributed nature of AWS, it can take up to five minutes after a policy is detached before it's ready to be deleted.

Requires permission to access the [DeletePolicy](#) action.

Request Syntax

```
DELETE /policies/policyName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

policyName

The name of the policy to delete.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

message

The message for the exception.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeletePolicyVersion

Service: AWS IoT

Deletes the specified version of the specified policy. You cannot delete the default version of a policy using this action. To delete the default version of a policy, use [DeletePolicy](#). To find out which version of a policy is marked as the default version, use [ListPolicyVersions](#).

Requires permission to access the [DeletePolicyVersion](#) action.

Request Syntax

```
DELETE /policies/policyName/version/policyVersionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[policyName](#)

The name of the policy.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: Yes

[policyVersionId](#)

The policy version ID.

Pattern: `[0-9]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

message

The message for the exception.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteProvisioningTemplate

Service: AWS IoT

Deletes a provisioning template.

Requires permission to access the [DeleteProvisioningTemplate](#) action.

Request Syntax

```
DELETE /provisioning-templates/templateName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateName

The name of the fleet provision template to delete.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

message

The message for the exception.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteProvisioningTemplateVersion

Service: AWS IoT

Deletes a provisioning template version.

Requires permission to access the [DeleteProvisioningTemplateVersion](#) action.

Request Syntax

```
DELETE /provisioning-templates/templateName/versions/versionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateName

The name of the provisioning template version to delete.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

versionId

The provisioning template version ID to delete.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

message

The message for the exception.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteRegistrationCode

Service: AWS IoT

Deletes a CA certificate registration code.

Requires permission to access the [DeleteRegistrationCode](#) action.

Request Syntax

```
DELETE /registrationcode HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteRoleAlias

Service: AWS IoT

Deletes a role alias

Requires permission to access the [DeleteRoleAlias](#) action.

Request Syntax

```
DELETE /role-aliases/roleAlias HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[roleAlias](#)

The role alias to delete.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=, @- ]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

message

The message for the exception.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteScheduledAudit

Service: AWS IoT

Deletes a scheduled audit.

Requires permission to access the [DeleteScheduledAudit](#) action.

Request Syntax

```
DELETE /audit/scheduledaudits/scheduledAuditName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

scheduledAuditName

The name of the scheduled audit you want to delete.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteSecurityProfile

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Deletes a Device Defender security profile.

Requires permission to access the [DeleteSecurityProfile](#) action.

Request Syntax

```
DELETE /security-profiles/securityProfileName?expectedVersion=expectedVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

expectedVersion

The expected version of the security profile. A new version is generated whenever the security profile is updated. If you specify a value that is different from the actual version, a `VersionConflictException` is thrown.

securityProfileName

The name of the security profile to be deleted.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteStream

Service: AWS IoT

Deletes a stream.

Requires permission to access the [DeleteStream](#) action.

Request Syntax

```
DELETE /streams/streamId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

streamId

The stream ID.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

DeleteConflictException

You can't delete the resource because it is attached to one or more resources.

message

The message for the exception.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteThing

Service: AWS IoT

Deletes the specified thing. Returns successfully with no error if the deletion is successful or you specify a thing that doesn't exist.

Requires permission to access the [DeleteThing](#) action.

Request Syntax

```
DELETE /things/thingName?expectedVersion=expectedVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[expectedVersion](#)

The expected version of the thing record in the registry. If the version of the record in the registry does not match the expected version specified in the request, the DeleteThing request is rejected with a VersionConflictException.

[thingName](#)

The name of the thing to delete.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)

- [AWS SDK for Ruby V3](#)

DeleteThingGroup

Service: AWS IoT

Deletes a thing group.

Requires permission to access the [DeleteThingGroup](#) action.

Request Syntax

```
DELETE /thing-groups/thingGroupName?expectedVersion=expectedVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[expectedVersion](#)

The expected version of the thing group to delete.

[thingGroupName](#)

The name of the thing group to delete.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteThingType

Service: AWS IoT

Deletes the specified thing type. You cannot delete a thing type if it has things associated with it. To delete a thing type, first mark it as deprecated by calling [DeprecateThingType](#), then remove any associated things by calling [UpdateThing](#) to change the thing type on any associated thing, and finally use [DeleteThingType](#) to delete the thing type.

Requires permission to access the [DeleteThingType](#) action.

Request Syntax

```
DELETE /thing-types/thingTypeName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[thingTypeName](#)

The name of the thing type.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteTopicRule

Service: AWS IoT

Deletes the rule.

Requires permission to access the [DeleteTopicRule](#) action.

Request Syntax

```
DELETE /rules/ruleName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ruleName

The name of the rule.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteTopicRuleDestination

Service: AWS IoT

Deletes a topic rule destination.

Requires permission to access the [DeleteTopicRuleDestination](#) action.

Request Syntax

```
DELETE /destinations/arn+ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

arn

The ARN of the topic rule destination to delete.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteV2LoggingLevel

Service: AWS IoT

Deletes a logging level.

Requires permission to access the [DeleteV2LoggingLevel](#) action.

Request Syntax

```
DELETE /v2LoggingLevel?targetName=targetName&targetType=targetType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[targetName](#)

The name of the resource for which you are configuring logging.

Required: Yes

[targetType](#)

The type of resource for which you are configuring logging. Must be `THING_Group`.

Valid Values: `DEFAULT` | `THING_GROUP` | `CLIENT_ID` | `SOURCE_IP` | `PRINCIPAL_ID`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeprecateThingType

Service: AWS IoT

Deprecates a thing type. You can not associate new things with deprecated thing type.

Requires permission to access the [DeprecateThingType](#) action.

Request Syntax

```
POST /thing-types/thingTypeName/deprecate HTTP/1.1
Content-type: application/json

{
  "undoDeprecate": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingTypeName](#)

The name of the thing type to deprecate.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[undoDeprecate](#)

Whether to undeprecate a deprecated thing type. If **true**, the thing type will not be deprecated anymore and you can associate it with things.

Type: Boolean

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeAccountAuditConfiguration

Service: AWS IoT

Gets information about the Device Defender audit settings for this account. Settings include how audit notifications are sent and which audit checks are enabled or disabled.

Requires permission to access the [DescribeAccountAuditConfiguration](#) action.

Request Syntax

```
GET /audit/configuration HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "auditCheckConfigurations": {
    "string" : {
      "configuration": {
        "string" : "string"
      },
      "enabled": boolean
    }
  },
  "auditNotificationTargetConfigurations": {
    "string" : {
      "enabled": boolean,
      "roleArn": "string",
      "targetArn": "string"
    }
  },
  "roleArn": "string"
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[auditCheckConfigurations](#)

Which audit checks are enabled and disabled for this account.

Type: String to [AuditCheckConfiguration](#) object map

[auditNotificationTargetConfigurations](#)

Information about the targets to which audit notifications are sent for this account.

Type: String to [AuditNotificationTarget](#) object map

Valid Keys: SNS

[roleArn](#)

The ARN of the role that grants permission to AWS IoT to access information about your devices, policies, certificates, and other items as required when performing an audit.

On the first call to `UpdateAccountAuditConfiguration`, this parameter is required.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeAuditFinding

Service: AWS IoT

Gets information about a single audit finding. Properties include the reason for noncompliance, the severity of the issue, and the start time when the audit that returned the finding.

Requires permission to access the [DescribeAuditFinding](#) action.

Request Syntax

```
GET /audit/findings/findingId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[findingId](#)

A unique identifier for a single audit finding. You can use this identifier to apply mitigation actions to the finding.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "finding": {
    "checkName": "string",
    "findingId": "string",
    "findingTime": number,
    "isSuppressed": boolean,
```

```
"nonCompliantResource": {
  "additionalInfo": {
    "string" : "string"
  },
  "resourceIdentifier": {
    "account": "string",
    "caCertificateId": "string",
    "clientId": "string",
    "cognitoIdentityPoolId": "string",
    "deviceCertificateArn": "string",
    "deviceCertificateId": "string",
    "iamRoleArn": "string",
    "issuerCertificateIdentifier": {
      "issuerCertificateSerialNumber": "string",
      "issuerCertificateSubject": "string",
      "issuerId": "string"
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  },
  "resourceType": "string"
},
"reasonForNonCompliance": "string",
"reasonForNonComplianceCode": "string",
"relatedResources": [
  {
    "additionalInfo": {
      "string" : "string"
    },
    "resourceIdentifier": {
      "account": "string",
      "caCertificateId": "string",
      "clientId": "string",
      "cognitoIdentityPoolId": "string",
      "deviceCertificateArn": "string",
      "deviceCertificateId": "string",
      "iamRoleArn": "string",
      "issuerCertificateIdentifier": {
        "issuerCertificateSerialNumber": "string",
        "issuerCertificateSubject": "string",
        "issuerId": "string"
      }
    }
  }
]
```

```
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  },
  "resourceType": "string"
}
],
"severity": "string",
"taskId": "string",
"taskStartTime": number
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[finding](#)

The findings (results) of the audit.

Type: [AuditFinding](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeAuditMitigationActionsTask

Service: AWS IoT

Gets information about an audit mitigation task that is used to apply mitigation actions to a set of audit findings. Properties include the actions being applied, the audit checks to which they're being applied, the task status, and aggregated task statistics.

Request Syntax

```
GET /audit/mitigationactions/tasks/taskId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId

The unique identifier for the audit mitigation task.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "actionsDefinition": [
    {
      "actionParams": {
        "addThingsToThingGroupParams": {
          "overrideDynamicGroups": boolean,
          "thingGroupNames": [ "string" ]
        },
```

```

    "enableIoTLoggingParams": {
      "logLevel": "string",
      "roleArnForLogging": "string"
    },
    "publishFindingToSnsParams": {
      "topicArn": "string"
    },
    "replaceDefaultPolicyVersionParams": {
      "templateName": "string"
    },
    "updateCACertificateParams": {
      "action": "string"
    },
    "updateDeviceCertificateParams": {
      "action": "string"
    }
  },
  "id": "string",
  "name": "string",
  "roleArn": "string"
}
],
"auditCheckToActionsMapping": {
  "string" : [ "string" ]
},
"endTime": number,
"startTime": number,
"target": {
  "auditCheckToReasonCodeFilter": {
    "string" : [ "string" ]
  },
  "auditTaskId": "string",
  "findingIds": [ "string" ]
},
"taskStatistics": {
  "string" : {
    "canceledFindingsCount": number,
    "failedFindingsCount": number,
    "skippedFindingsCount": number,
    "succeededFindingsCount": number,
    "totalFindingsCount": number
  }
},
"taskStatus": "string"

```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[actionsDefinition](#)

Specifies the mitigation actions and their parameters that are applied as part of this task.

Type: Array of [MitigationAction](#) objects

[auditCheckToActionsMapping](#)

Specifies the mitigation actions that should be applied to specific audit checks.

Type: String to array of strings map

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

[endTime](#)

The date and time when the task was completed or canceled.

Type: Timestamp

[startTime](#)

The date and time when the task was started.

Type: Timestamp

[target](#)

Identifies the findings to which the mitigation actions are applied. This can be by audit checks, by audit task, or a set of findings.

Type: [AuditMitigationActionsTaskTarget](#) object

taskStatistics

Aggregate counts of the results when the mitigation tasks were applied to the findings for this audit mitigation actions task.

Type: String to [TaskStatisticsForAuditCheck](#) object map

taskStatus

The current status of the task.

Type: String

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeAuditSuppression

Service: AWS IoT

Gets information about a Device Defender audit suppression.

Request Syntax

POST /audit/suppressions/describe HTTP/1.1

Content-type: application/json

```
{
  "checkName": "string",
  "resourceIdentifier": {
    "account": "string",
    "caCertificateId": "string",
    "clientId": "string",
    "cognitoIdentityPoolId": "string",
    "deviceCertificateArn": "string",
    "deviceCertificateId": "string",
    "iamRoleArn": "string",
    "issuerCertificateIdentifier": {
      "issuerCertificateSerialNumber": "string",
      "issuerCertificateSubject": "string",
      "issuerId": "string"
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

checkName

An audit check name. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: String

Required: Yes

resourceIdentifier

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier](#) object

Required: Yes

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "checkName": "string",
  "description": "string",
  "expirationDate": number,
  "resourceIdentifier": {
    "account": "string",
    "caCertificateId": "string",
    "clientId": "string",
    "cognitoIdentityPoolId": "string",
    "deviceCertificateArn": "string",
    "deviceCertificateId": "string",
    "iamRoleArn": "string",
    "issuerCertificateIdentifier": {
      "issuerCertificateSerialNumber": "string",
      "issuerCertificateSubject": "string",
      "issuerId": "string"
    },
  },
  "policyVersionIdentifier": {
    "policyName": "string",
    "policyVersionId": "string"
  }
}
```



```
    },  
    "roleAliasArn": "string"  
  },  
  "suppressIndefinitely": boolean  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[checkName](#)

An audit check name. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: String

[description](#)

The description of the audit suppression.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\p{Graph}\x20]*`

[expirationDate](#)

The epoch timestamp in seconds at which this suppression expires.

Type: Timestamp

[resourceIdentifier](#)

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier](#) object

[suppressIndefinitely](#)

Indicates whether a suppression should exist indefinitely or not.

Type: Boolean

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeAuditTask

Service: AWS IoT

Gets information about a Device Defender audit.

Requires permission to access the [DescribeAuditTask](#) action.

Request Syntax

```
GET /audit/tasks/taskId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId

The ID of the audit whose information you want to get.

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: [a-zA-Z0-9\ -]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "auditDetails": {
    "string" : {
      "checkCompliant": boolean,
      "checkRunStatus": "string",
      "errorCode": "string",
      "message": "string",
```

```
    "nonCompliantResourcesCount": number,
    "suppressedNonCompliantResourcesCount": number,
    "totalResourcesCount": number
  },
  "scheduledAuditName": "string",
  "taskStartTime": number,
  "taskStatistics": {
    "canceledChecks": number,
    "compliantChecks": number,
    "failedChecks": number,
    "inProgressChecks": number,
    "nonCompliantChecks": number,
    "totalChecks": number,
    "waitingForDataCollectionChecks": number
  },
  "taskStatus": "string",
  "taskType": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

auditDetails

Detailed information about each check performed during this audit.

Type: String to [AuditCheckDetails](#) object map

scheduledAuditName

The name of the scheduled audit (only if the audit was a scheduled audit).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

taskStartTime

The time the audit started.

Type: Timestamp

taskStatistics

Statistical information about the audit.

Type: [TaskStatistics](#) object

taskStatus

The status of the audit: one of "IN_PROGRESS", "COMPLETED", "FAILED", or "CANCELED".

Type: String

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED

taskType

The type of audit: "ON_DEMAND_AUDIT_TASK" or "SCHEDULED_AUDIT_TASK".

Type: String

Valid Values: ON_DEMAND_AUDIT_TASK | SCHEDULED_AUDIT_TASK

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeAuthorizer

Service: AWS IoT

Describes an authorizer.

Requires permission to access the [DescribeAuthorizer](#) action.

Request Syntax

```
GET /authorizer/authorizerName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[authorizerName](#)

The name of the authorizer to describe.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=, @- ]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "authorizerDescription": {
    "authorizerArn": "string",
    "authorizerFunctionArn": "string",
    "authorizerName": "string",
    "creationDate": number,
```



```
"enableCachingForHttp": boolean,
"lastModifiedDate": number,
"signingDisabled": boolean,
"status": "string",
"tokenKeyName": "string",
"tokenSigningPublicKeys": {
  "string" : "string"
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

authorizerDescription

The authorizer description.

Type: [AuthorizerDescription](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeBillingGroup

Service: AWS IoT

Returns information about a billing group.

Requires permission to access the [DescribeBillingGroup](#) action.

Request Syntax

```
GET /billing-groups/billingGroupName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

billingGroupName

The name of the billing group.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "billingGroupArn": "string",
  "billingGroupId": "string",
  "billingGroupMetadata": {
    "creationDate": number
  },
  "billingGroupName": "string",
```

```
"billingGroupProperties": {  
  "billingGroupDescription": "string"  
},  
"version": number  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[billingGroupArn](#)

The ARN of the billing group.

Type: String

[billingGroupId](#)

The ID of the billing group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-]+

[billingGroupMetadata](#)

Additional information about the billing group.

Type: [BillingGroupMetadata](#) object

[billingGroupName](#)

The name of the billing group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

[billingGroupProperties](#)

The properties of the billing group.

Type: [BillingGroupProperties](#) object

version

The version of the billing group.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeCACertificate

Service: AWS IoT

Describes a registered CA certificate.

Requires permission to access the [DescribeCACertificate](#) action.

Request Syntax

```
GET /cacertificate/caCertificateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

caCertificateId

The CA certificate identifier.

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificateDescription": {
    "autoRegistrationStatus": "string",
    "certificateArn": "string",
    "certificateId": "string",
    "certificateMode": "string",
    "certificatePem": "string",
    "creationDate": number,
```



```
"customerVersion": number,
"generationId": "string",
"lastModifiedDate": number,
"ownedBy": "string",
"status": "string",
"validity": {
  "notAfter": number,
  "notBefore": number
},
"registrationConfig": {
  "roleArn": "string",
  "templateBody": "string",
  "templateName": "string"
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

certificateDescription

The CA certificate description.

Type: [CACertificateDescription](#) object

registrationConfig

Information about the registration configuration.

Type: [RegistrationConfig](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeCertificate

Service: AWS IoT

Gets information about the specified certificate.

Requires permission to access the [DescribeCertificate](#) action.

Request Syntax

```
GET /certificates/certificateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

certificateId

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificateDescription": {
    "caCertificateId": "string",
    "certificateArn": "string",
    "certificateId": "string",
    "certificateMode": "string",
```

```
"certificatePem": "string",
"creationDate": number,
"customerVersion": number,
"generationId": "string",
"lastModifiedDate": number,
"ownedBy": "string",
"previousOwnedBy": "string",
"status": "string",
"transferData": {
  "acceptDate": number,
  "rejectDate": number,
  "rejectReason": "string",
  "transferDate": number,
  "transferMessage": "string"
},
"validity": {
  "notAfter": number,
  "notBefore": number
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

certificateDescription

The description of the certificate.

Type: [CertificateDescription](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeCertificateProvider

Service: AWS IoT

Describes a certificate provider.

Requires permission to access the [DescribeCertificateProvider](#) action.

Request Syntax

```
GET /certificate-providers/certificateProviderName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

certificateProviderName

The name of the certificate provider.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "accountDefaultForOperations": [ string ],
  "certificateProviderArn": string,
  "certificateProviderName": string,
  "creationDate": number,
  "lambdaFunctionArn": string,
  "lastModifiedDate": number
```



```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

accountDefaultForOperations

A list of the operations that the certificate provider will use to generate certificates. Valid value: `CreateCertificateFromCsr`.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: `CreateCertificateFromCsr`

certificateProviderArn

The ARN of the certificate provider.

Type: String

Length Constraints: Maximum length of 2048.

certificateProviderName

The name of the certificate provider.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@- ]+`

creationDate

The date-time string that indicates when the certificate provider was created.

Type: Timestamp

lambdaFunctionArn

The Lambda function ARN that's associated with the certificate provider.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `[\s\S]*`

lastModifiedDate

The date-time string that indicates when the certificate provider was last updated.

Type: Timestamp

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeCustomMetric

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Gets information about a Device Defender detect custom metric.

Requires permission to access the [DescribeCustomMetric](#) action.

Request Syntax

```
GET /custom-metric/metricName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

metricName

The name of the custom metric.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "creationDate": number,
  "displayName": "string",
  "lastModifiedDate": number,
  "metricArn": "string",
  "metricName": "string",
  "metricType": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

creationDate

The creation date of the custom metric in milliseconds since epoch.

Type: Timestamp

displayName

Field represents a friendly name in the console for the custom metric; doesn't have to be unique. Don't use this name as the metric identifier in the device metric report. Can be updated.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [p{Graph}\x20]*

lastModifiedDate

The time the custom metric was last modified in milliseconds since epoch.

Type: Timestamp

metricArn

The Amazon Resource Number (ARN) of the custom metric.

Type: String

metricName

The name of the custom metric.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

metricType

The type of the custom metric.

Important

The type `number` only takes a single metric value as an input, but while submitting the metrics value in the `DeviceMetrics` report, it must be passed as an array with a single value.

Type: String

Valid Values: `string-list` | `ip-address-list` | `number-list` | `number`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeDefaultAuthorizer

Service: AWS IoT

Describes the default authorizer.

Requires permission to access the [DescribeDefaultAuthorizer](#) action.

Request Syntax

```
GET /default-authorizer HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "authorizerDescription": {
    "authorizerArn": "string",
    "authorizerFunctionArn": "string",
    "authorizerName": "string",
    "creationDate": number,
    "enableCachingForHttp": boolean,
    "lastModifiedDate": number,
    "signingDisabled": boolean,
    "status": "string",
    "tokenKeyName": "string",
    "tokenSigningPublicKeys": {
      "string" : "string"
    }
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

authorizerDescription

The default authorizer's description.

Type: [AuthorizerDescription](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeDetectMitigationActionsTask

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Gets information about a Device Defender ML Detect mitigation action.

Requires permission to access the [DescribeDetectMitigationActionsTask](#) action.

Request Syntax

```
GET /detect/mitigationactions/tasks/taskId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId

The unique identifier of the task.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "taskSummary": {
    "actionsDefinition": [
      {
        "actionParams": {
          "addThingsToThingGroupParams": {
            "overrideDynamicGroups": boolean,
            "thingGroupNames": [ "string" ]
          },
          "enableIoTLoggingParams": {
            "logLevel": "string",
            "roleArnForLogging": "string"
          },
          "publishFindingToSnsParams": {
            "topicArn": "string"
          },
          "replaceDefaultPolicyVersionParams": {
            "templateName": "string"
          },
          "updateCACertificateParams": {
            "action": "string"
          },
          "updateDeviceCertificateParams": {
            "action": "string"
          }
        },
        "id": "string",
        "name": "string",
        "roleArn": "string"
      }
    ],
    "onlyActiveViolationsIncluded": boolean,
    "suppressedAlertsIncluded": boolean,
    "target": {
      "behaviorName": "string",
      "securityProfileName": "string",
      "violationIds": [ "string" ]
    },
    "taskEndTime": number,
    "taskId": "string",
    "taskStartTime": number,
    "taskStatistics": {
```

```
    "actionsExecuted": number,
    "actionsFailed": number,
    "actionsSkipped": number
  },
  "taskStatus": "string",
  "violationEventOccurrenceRange": {
    "endTime": number,
    "startTime": number
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

taskSummary

The description of a task.

Type: [DetectMitigationActionsTaskSummary](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeDimension

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Provides details about a dimension that is defined in your AWS accounts.

Requires permission to access the [DescribeDimension](#) action.

Request Syntax

```
GET /dimensions/name HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

name

The unique identifier for the dimension.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "arn": "string",
  "creationDate": number,
  "lastModifiedDate": number,
  "name": "string",
  "stringValue": [ "string" ],
  "type": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[arn](#)

The Amazon Resource Name (ARN) for the dimension.

Type: String

[creationDate](#)

The date the dimension was created.

Type: Timestamp

[lastModifiedDate](#)

The date the dimension was last modified.

Type: Timestamp

[name](#)

The unique identifier for the dimension.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

stringValues

The value or list of values used to scope the dimension. For example, for topic filters, this is the pattern used to match the MQTT topic name.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

type

The type of the dimension.

Type: String

Valid Values: TOPIC_FILTER

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeDomainConfiguration

Service: AWS IoT

Gets summary information about a domain configuration.

Requires permission to access the [DescribeDomainConfiguration](#) action.

Request Syntax

```
GET /domainConfigurations/domainConfigurationName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

domainConfigurationName

The name of the domain configuration.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w. :- ]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "applicationProtocol": "string",
  "authenticationType": "string",
  "authorizerConfig": {
    "allowAuthorizerOverride": boolean,
    "defaultAuthorizerName": "string"
  },
  "clientCertificateConfig": {
```

```

    "clientCertificateCallbackArn": "string"
  },
  "domainConfigurationArn": "string",
  "domainConfigurationName": "string",
  "domainConfigurationStatus": "string",
  "domainName": "string",
  "domainType": "string",
  "lastStatusChangeDate": number,
  "serverCertificateConfig": {
    "enableOCSPCheck": boolean,
    "ocspAuthorizedResponderArn": "string",
    "ocspLambdaArn": "string"
  },
  "serverCertificates": [
    {
      "serverCertificateArn": "string",
      "serverCertificateStatus": "string",
      "serverCertificateStatusDetail": "string"
    }
  ],
  "serviceType": "string",
  "tlsConfig": {
    "securityPolicy": "string"
  }
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

applicationProtocol

An enumerated string that specifies the application-layer protocol.

- SECURE_MQTT - MQTT over TLS.
- MQTT_WSS - MQTT over WebSocket.
- HTTPS - HTTP over TLS.
- DEFAULT - Use a combination of port and Application Layer Protocol Negotiation (ALPN) to specify application_layer protocol. For more information, see [Device communication protocols](#).

Type: String

Valid Values: SECURE_MQTT | MQTT_WSS | HTTPS | DEFAULT

authenticationType

An enumerated string that specifies the authentication type.

- CUSTOM_AUTH_X509 - Use custom authentication and authorization with additional details from the X.509 client certificate.
- CUSTOM_AUTH - Use custom authentication and authorization. For more information, see [Custom authentication and authorization](#).
- AWS_X509 - Use X.509 client certificates without custom authentication and authorization. For more information, see [X.509 client certificates](#).
- AWS_SIGV4 - Use AWS Signature Version 4. For more information, see [IAM users, groups, and roles](#).
- DEFAULT - Use a combination of port and Application Layer Protocol Negotiation (ALPN) to specify authentication type. For more information, see [Device communication protocols](#).

Type: String

Valid Values: CUSTOM_AUTH_X509 | CUSTOM_AUTH | AWS_X509 | AWS_SIGV4 | DEFAULT

authorizerConfig

An object that specifies the authorization service for a domain.

Type: [AuthorizerConfig](#) object

clientCertificateConfig

An object that specifies the client certificate configuration for a domain.

Type: [ClientCertificateConfig](#) object

domainConfigurationArn

The ARN of the domain configuration.

Type: String

domainConfigurationName

The name of the domain configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w. : - ]+`

domainConfigurationStatus

A Boolean value that specifies the current state of the domain configuration.

Type: String

Valid Values: ENABLED | DISABLED

domainName

The name of the domain.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `[\s\S]*`

domainType

The type of the domain.

Type: String

Valid Values: ENDPOINT | AWS_MANAGED | CUSTOMER_MANAGED

lastStatusChangeDate

The date and time the domain configuration's status was last changed.

Type: Timestamp

serverCertificateConfig

The server certificate configuration.

Type: [ServerCertificateConfig](#) object

serverCertificates

A list containing summary information about the server certificate included in the domain configuration.

Type: Array of [ServerCertificateSummary](#) objects

[serviceType](#)

The type of service delivered by the endpoint.

Type: String

Valid Values: DATA | CREDENTIAL_PROVIDER | JOBS

[tlsConfig](#)

An object that specifies the TLS configuration for a domain.

Type: [TlsConfig](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeEncryptionConfiguration

Service: AWS IoT

Retrieves the encryption configuration for resources and data of your AWS account in AWS IoT Core. For more information, see [Data encryption at rest](#) in the *AWS IoT Core Developer Guide*.

Request Syntax

```
GET /encryption-configuration HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "configurationDetails": {
    "configurationStatus": "string",
    "errorCode": "string",
    "errorMessage": "string"
  },
  "encryptionType": "string",
  "kmsAccessRoleArn": "string",
  "kmsKeyArn": "string",
  "lastModifiedDate": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

configurationDetails

The encryption configuration details that include the status information of the KMS key and the AWS KMS access role.

Type: [ConfigurationDetails](#) object

encryptionType

The type of the KMS key.

Type: String

Valid Values: CUSTOMER_MANAGED_KMS_KEY | AWS_OWNED_KMS_KEY

kmsAccessRoleArn

The Amazon Resource Name (ARN) of the IAM role assumed by AWS IoT Core to call AWS KMS on behalf of the customer.

Type: String

Length Constraints: Maximum length of 2048.

kmsKeyArn

The ARN of the customer managed KMS key.

Type: String

Length Constraints: Maximum length of 2048.

lastModifiedDate

The date when encryption configuration is last updated.

Type: Timestamp

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeEndpoint

Service: AWS IoT

Returns or creates a unique endpoint specific to the AWS account making the call.

Note

The first time `DescribeEndpoint` is called, an endpoint is created. All subsequent calls to `DescribeEndpoint` return the same endpoint.

Requires permission to access the [DescribeEndpoint](#) action.

Request Syntax

```
GET /endpoint?endpointType=endpointType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

endpointType

The endpoint type. Valid endpoint types include:

- `iot:Data` - Returns a VeriSign signed data endpoint.
- `iot:Data-ATS` - Returns an ATS signed data endpoint.
- `iot:CredentialProvider` - Returns an AWS IoT credentials provider API endpoint.
- `iot:Jobs` - Returns an AWS IoT device management Jobs API endpoint.

We strongly recommend that customers use the newer `iot:Data-ATS` endpoint type to avoid issues related to the widespread distrust of Symantec certificate authorities. ATS Signed Certificates are more secure and are trusted by most popular browsers.

Length Constraints: Maximum length of 128.

Pattern: `[\s\S]*`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "endpointAddress": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[endpointAddress](#)

The endpoint. The format of the endpoint is as follows: *identifier.iot.region.amazonaws.com*.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeEventConfigurations

Service: AWS IoT

Describes event configurations.

Requires permission to access the [DescribeEventConfigurations](#) action.

Request Syntax

```
GET /event-configurations HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationDate": number,
  "eventConfigurations": {
    "string" : {
      "Enabled": boolean
    }
  },
  "lastModifiedDate": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[creationDate](#)

The creation date of the event configuration.

Type: Timestamp

eventConfigurations

The event configurations.

Type: String to [Configuration](#) object map

Valid Keys: THING | THING_GROUP | THING_TYPE | THING_GROUP_MEMBERSHIP | THING_GROUP_HIERARCHY | THING_TYPE_ASSOCIATION | JOB | JOB_EXECUTION | POLICY | CERTIFICATE | CA_CERTIFICATE

lastModifiedDate

The date the event configurations were last modified.

Type: Timestamp

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeFleetMetric

Service: AWS IoT

Gets information about the specified fleet metric.

Requires permission to access the [DescribeFleetMetric](#) action.

Request Syntax

```
GET /fleet-metric/metricName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

metricName

The name of the fleet metric to describe.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_\-\.]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "aggregationField": "string",
  "aggregationType": {
    "name": "string",
    "values": [ "string" ]
  },
  "creationDate": number,
  "description": "string",
```

```
"indexName": "string",  
"lastModifiedDate": number,  
"metricArn": "string",  
"metricName": "string",  
"period": number,  
"queryString": "string",  
"queryVersion": "string",  
"unit": "string",  
"version": number  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[aggregationField](#)

The field to aggregate.

Type: String

Length Constraints: Minimum length of 1.

[aggregationType](#)

The type of the aggregation query.

Type: [AggregationType](#) object

[creationDate](#)

The date when the fleet metric is created.

Type: Timestamp

[description](#)

The fleet metric description.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `[\p{Graph}\x20]*`

indexName

The name of the index to search.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

lastModifiedDate

The date when the fleet metric is last modified.

Type: Timestamp

metricArn

The ARN of the fleet metric to describe.

Type: String

metricName

The name of the fleet metric to describe.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_\-\.]+

period

The time in seconds between fleet metric emissions. Range [60(1 min), 86400(1 day)] and must be multiple of 60.

Type: Integer

Valid Range: Minimum value of 60. Maximum value of 86400.

queryString

The search query string.

Type: String

Length Constraints: Minimum length of 1.

queryVersion

The query version.

Type: String

unit

Used to support unit transformation such as milliseconds to seconds. The unit must be supported by [CW metric](#).

Type: String

Valid Values: Seconds | Microseconds | Milliseconds | Bytes | Kilobytes | Megabytes | Gigabytes | Terabytes | Bits | Kilobits | Megabits | Gigabits | Terabits | Percent | Count | Bytes/Second | Kilobytes/Second | Megabytes/Second | Gigabytes/Second | Terabytes/Second | Bits/Second | Kilobits/Second | Megabits/Second | Gigabits/Second | Terabits/Second | Count/Second | None

version

The version of the fleet metric.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeIndex

Service: AWS IoT

Describes a search index.

Requires permission to access the [DescribeIndex](#) action.

Request Syntax

```
GET /indices/indexName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

indexName

The index name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "indexName": "string",
  "indexStatus": "string",
  "schema": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

indexName

The index name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

indexStatus

The index status.

Type: String

Valid Values: ACTIVE | BUILDING | REBUILDING

schema

Contains a value that specifies the type of indexing performed. Valid values are:

- REGISTRY – Your thing index contains only registry data.
- REGISTRY_AND_SHADOW - Your thing index contains registry data and shadow data.
- REGISTRY_AND_CONNECTIVITY_STATUS - Your thing index contains registry data and thing connectivity status data.
- REGISTRY_AND_SHADOW_AND_CONNECTIVITY_STATUS - Your thing index contains registry data, shadow data, and thing connectivity status data.
- MULTI_INDEXING_MODE - Your thing index contains multiple data sources. For more information, see [GetIndexingConfiguration](#).

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeJob

Service: AWS IoT

Describes a job.

Requires permission to access the [DescribeJob](#) action.

Request Syntax

```
GET /jobs/jobId?beforeSubstitution=beforeSubstitution HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[beforeSubstitution](#)

Provides a view of the job document before and after the substitution parameters have been resolved with their exact values.

[jobId](#)

The unique identifier you assigned to this job when it was created.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "documentSource": "string",
  "job": {
    "abortConfig": {
```



```

    "criteriaList": [
      {
        "action": "string",
        "failureType": "string",
        "minNumberOfExecutedThings": number,
        "thresholdPercentage": number
      }
    ]
  },
  "comment": "string",
  "completedAt": number,
  "createdAt": number,
  "description": "string",
  "destinationPackageVersions": [ "string" ],
  "documentParameters": {
    "string" : "string"
  },
  "forceCanceled": boolean,
  "isConcurrent": boolean,
  "jobArn": "string",
  "jobExecutionsRetryConfig": {
    "criteriaList": [
      {
        "failureType": "string",
        "numberOfRetries": number
      }
    ]
  },
  "jobExecutionsRolloutConfig": {
    "exponentialRate": {
      "baseRatePerMinute": number,
      "incrementFactor": number,
      "rateIncreaseCriteria": {
        "numberOfNotifiedThings": number,
        "numberOfSucceededThings": number
      }
    }
  },
  "maximumPerMinute": number
},
  "jobId": "string",
  "jobProcessDetails": {
    "numberOfCanceledThings": number,
    "numberOfFailedThings": number,
    "numberOfInProgressThings": number,

```

```

        "numberOfQueuedThings": number,
        "numberOfRejectedThings": number,
        "numberOfRemovedThings": number,
        "numberOfSucceededThings": number,
        "numberOfTimedOutThings": number,
        "processingTargets": [ "string" ]
    },
    "jobTemplateArn": "string",
    "lastUpdatedAt": number,
    "namespaceId": "string",
    "presignedUrlConfig": {
        "expiresInSec": number,
        "roleArn": "string"
    },
    "reasonCode": "string",
    "scheduledJobRollouts": [
        {
            "startTime": "string"
        }
    ],
    "schedulingConfig": {
        "endBehavior": "string",
        "endTime": "string",
        "maintenanceWindows": [
            {
                "durationInMinutes": number,
                "startTime": "string"
            }
        ],
        "startTime": "string"
    },
    "status": "string",
    "targets": [ "string" ],
    "targetSelection": "string",
    "timeoutConfig": {
        "inProgressTimeoutInMinutes": number
    }
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

documentSource

An S3 link to the job document.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1350.

job

Information about the job.

Type: [Job](#) object

Errors

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeJobExecution

Service: AWS IoT

Describes a job execution.

Requires permission to access the [DescribeJobExecution](#) action.

Request Syntax

```
GET /things/thingName/jobs/jobId?executionNumber=executionNumber HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

executionNumber

A string (consisting of the digits "0" through "9" which is used to specify a particular job execution on a particular device.

jobId

The unique identifier you assigned to this job when it was created.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

thingName

The name of the thing on which the job execution is running.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "execution": {
    "approximateSecondsBeforeTimedOut": number,
    "executionNumber": number,
    "forceCanceled": boolean,
    "jobId": "string",
    "lastUpdatedAt": number,
    "queuedAt": number,
    "startedAt": number,
    "status": "string",
    "statusDetails": {
      "detailsMap": {
        "string" : "string"
      }
    },
    "thingArn": "string",
    "versionNumber": number
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

execution

Information about the job execution.

Type: [JobExecution](#) object

Errors

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeJobTemplate

Service: AWS IoT

Returns information about a job template.

Request Syntax

```
GET /job-templates/jobTemplateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

jobTemplateId

The unique identifier of the job template.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "abortConfig": {
    "criteriaList": [
      {
        "action": "string",
        "failureType": "string",
        "minNumberOfExecutedThings": number,
        "thresholdPercentage": number
      }
    ]
  }
}
```

```
},
"createdAt": number,
"description": "string",
"destinationPackageVersions": [ "string" ],
"document": "string",
"documentSource": "string",
"jobExecutionsRetryConfig": {
  "criteriaList": [
    {
      "failureType": "string",
      "numberOfRetries": number
    }
  ]
},
"jobExecutionsRolloutConfig": {
  "exponentialRate": {
    "baseRatePerMinute": number,
    "incrementFactor": number,
    "rateIncreaseCriteria": {
      "numberOfNotifiedThings": number,
      "numberOfSucceededThings": number
    }
  },
  "maximumPerMinute": number
},
"jobTemplateArn": "string",
"jobTemplateId": "string",
"maintenanceWindows": [
  {
    "durationInMinutes": number,
    "startTime": "string"
  }
],
"presignedUrlConfig": {
  "expiresInSec": number,
  "roleArn": "string"
},
"timeoutConfig": {
  "inProgressTimeoutInMinutes": number
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

abortConfig

The criteria that determine when and how a job abort takes place.

Type: [AbortConfig](#) object

createdAt

The time, in seconds since the epoch, when the job template was created.

Type: Timestamp

description

A description of the job template.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

destinationPackageVersions

The package version Amazon Resource Names (ARNs) that are installed on the device when the job successfully completes. The package version must be in either the Published or Deprecated state when the job deploys. For more information, see [Package version lifecycle](#).

Note:The following Length Constraints relates to a single ARN. Up to 25 package version ARNs are allowed.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:[!-~]+$`

document

The job document.

Type: String

Length Constraints: Maximum length of 32768.

[documentSource](#)

An S3 link to the job document.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1350.

[jobExecutionsRetryConfig](#)

The configuration that determines how many retries are allowed for each failure type for a job.

Type: [JobExecutionsRetryConfig](#) object

[jobExecutionsRolloutConfig](#)

Allows you to create a staged rollout of a job.

Type: [JobExecutionsRolloutConfig](#) object

[jobTemplateArn](#)

The ARN of the job template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:[!-~]+$`

[jobTemplateId](#)

The unique identifier of the job template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

[maintenanceWindows](#)

Allows you to configure an optional maintenance window for the rollout of a job document to all devices in the target group for a job.

Type: Array of [MaintenanceWindow](#) objects

[presignedUrlConfig](#)

Configuration for pre-signed S3 URLs.

Type: [PresignedUrlConfig](#) object

[timeoutConfig](#)

Specifies the amount of time each device has to finish its execution of the job. A timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the timer expires, it will be automatically set to TIMED_OUT.

Type: [TimeoutConfig](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeManagedJobTemplate

Service: AWS IoT

View details of a managed job template.

Request Syntax

```
GET /managed-job-templates/templateName?templateVersion=templateVersion HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateName

The unique name of a managed job template, which is required.

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

templateVersion

An optional parameter to specify version of a managed template. If not specified, the pre-defined default version is returned.

Pattern: `^[1-9]+.[0-9]+`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "description": "string",
  "document": "string",
```

```
"documentParameters": [  
  {  
    "description": "string",  
    "example": "string",  
    "key": "string",  
    "optional": boolean,  
    "regex": "string"  
  }  
],  
"environments": [ "string" ],  
"templateArn": "string",  
"templateName": "string",  
"templateVersion": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

description

The unique description of a managed template.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[\p{C}]`

document

The document schema for a managed job template.

Type: String

Length Constraints: Maximum length of 32768.

documentParameters

A map of key-value pairs that you can use as guidance to specify the inputs for creating a job from a managed template.

Note

`documentParameters` can only be used when creating jobs from AWS managed templates. This parameter can't be used with custom job templates or to create jobs from them.

Type: Array of [DocumentParameter](#) objects

environments

A list of environments that are supported with the managed job template.

Type: Array of strings

Pattern: `[\p{C}]+`

templateArn

The unique Amazon Resource Name (ARN) of the managed template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:[!-~]+$`

templateName

The unique name of a managed template, such as AWS-Reboot.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

templateVersion

The version for a managed template.

Type: String

Pattern: `^[1-9]+.[0-9]+`

Errors

InternalServerError

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeMitigationAction

Service: AWS IoT

Gets information about a mitigation action.

Requires permission to access the [DescribeMitigationAction](#) action.

Request Syntax

```
GET /mitigationactions/actions/actionName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

actionName

The friendly name that uniquely identifies the mitigation action.

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "actionArn": "string",
  "actionId": "string",
  "actionName": "string",
  "actionParams": {
    "addThingsToThingGroupParams": {
```

```
    "overrideDynamicGroups": boolean,
    "thingGroupNames": [ "string" ]
  },
  "enableIoTLoggingParams": {
    "logLevel": "string",
    "roleArnForLogging": "string"
  },
  "publishFindingToSnsParams": {
    "topicArn": "string"
  },
  "replaceDefaultPolicyVersionParams": {
    "templateName": "string"
  },
  "updateCACertificateParams": {
    "action": "string"
  },
  "updateDeviceCertificateParams": {
    "action": "string"
  }
},
"actionType": "string",
"creationDate": number,
"lastModifiedDate": number,
"roleArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

actionArn

The ARN that identifies this migration action.

Type: String

actionId

A unique identifier for this action.

Type: String

actionName

The friendly name that uniquely identifies the mitigation action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

actionParams

Parameters that control how the mitigation action is applied, specific to the type of mitigation action.

Type: [MitigationActionParams](#) object

actionType

The type of mitigation action.

Type: String

Valid Values: UPDATE_DEVICE_CERTIFICATE | UPDATE_CA_CERTIFICATE |
ADD_THINGS_TO_THING_GROUP | REPLACE_DEFAULT_POLICY_VERSION |
ENABLE_IOT_LOGGING | PUBLISH_FINDING_TO_SNS

creationDate

The date and time when the mitigation action was added to your AWS accounts.

Type: Timestamp

lastModifiedDate

The date and time when the mitigation action was last changed.

Type: Timestamp

roleArn

The ARN of the IAM role used to apply this action.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeProvisioningTemplate

Service: AWS IoT

Returns information about a provisioning template.

Requires permission to access the [DescribeProvisioningTemplate](#) action.

Request Syntax

```
GET /provisioning-templates/templateName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateName

The name of the provisioning template.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationDate": number,
  "defaultVersionId": number,
  "description": "string",
  "enabled": boolean,
  "lastModifiedDate": number,
  "preProvisioningHook": {
    "payloadVersion": "string",
```

```
    "targetArn": "string"
  },
  "provisioningRoleArn": "string",
  "templateArn": "string",
  "templateBody": "string",
  "templateName": "string",
  "type": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[creationDate](#)

The date when the provisioning template was created.

Type: Timestamp

[defaultVersionId](#)

The default fleet template version ID.

Type: Integer

[description](#)

The description of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[^\p{C}]*`

[enabled](#)

True if the provisioning template is enabled, otherwise false.

Type: Boolean

[lastModifiedDate](#)

The date when the provisioning template was last modified.

Type: Timestamp

preProvisioningHook

Gets information about a pre-provisioned hook.

Type: [ProvisioningHook](#) object

provisioningRoleArn

The ARN of the role associated with the provisioning template. This IoT role grants permission to provision a device.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

templateArn

The ARN of the provisioning template.

Type: String

templateBody

The JSON formatted contents of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: `[\s\S]*`

templateName

The name of the provisioning template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

type

The type you define in a provisioning template. You can create a template with only one type. You can't change the template type after its creation. The default value is

FLEET_PROVISIONING. For more information about provisioning template, see: [Provisioning template](#).

Type: String

Valid Values: FLEET_PROVISIONING | JITP

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeProvisioningTemplateVersion

Service: AWS IoT

Returns information about a provisioning template version.

Requires permission to access the [DescribeProvisioningTemplateVersion](#) action.

Request Syntax

```
GET /provisioning-templates/templateName/versions/versionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

templateName

The template name.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

versionId

The provisioning template version ID.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationDate": number,
  "isDefaultVersion": boolean,
```

```
"templateBody": string,  
"versionId": number  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[creationDate](#)

The date when the provisioning template version was created.

Type: Timestamp

[isDefaultVersion](#)

True if the provisioning template version is the default version.

Type: Boolean

[templateBody](#)

The JSON formatted contents of the provisioning template version.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: `[\s\S]*`

[versionId](#)

The provisioning template version ID.

Type: Integer

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeRoleAlias

Service: AWS IoT

Describes a role alias.

Requires permission to access the [DescribeRoleAlias](#) action.

Request Syntax

```
GET /role-aliases/roleAlias HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

roleAlias

The role alias to describe.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "roleAliasDescription": {
    "creationDate": number,
    "credentialDurationSeconds": number,
    "lastModifiedDate": number,
    "owner": "string",
    "roleAlias": "string",
```

```
    "roleAliasArn": "string",  
    "roleArn": "string"  
  }  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[roleAliasDescription](#)

The role alias description.

Type: [RoleAliasDescription](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeScheduledAudit

Service: AWS IoT

Gets information about a scheduled audit.

Requires permission to access the [DescribeScheduledAudit](#) action.

Request Syntax

```
GET /audit/scheduledaudits/scheduledAuditName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

scheduledAuditName

The name of the scheduled audit whose information you want to get.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "dayOfMonth": "string",
  "dayOfWeek": "string",
  "frequency": "string",
  "scheduledAuditArn": "string",
  "scheduledAuditName": "string",
  "targetCheckNames": [ "string" ]
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

dayOfMonth

The day of the month on which the scheduled audit takes place. This is will be 1 through 31 or LAST. If days 29-31 are specified, and the month does not have that many days, the audit takes place on the LAST day of the month.

Type: String

Pattern: `^([1-9]|[12][0-9]|3[01])$|^LAST$`

dayOfWeek

The day of the week on which the scheduled audit takes place, either one of SUN, MON, TUE, WED, THU, FRI, or SAT.

Type: String

Valid Values: SUN | MON | TUE | WED | THU | FRI | SAT

frequency

How often the scheduled audit takes place, either one of DAILY, WEEKLY, BIWEEKLY, or MONTHLY. The start time of each audit is determined by the system.

Type: String

Valid Values: DAILY | WEEKLY | BIWEEKLY | MONTHLY

scheduledAuditArn

The ARN of the scheduled audit.

Type: String

scheduledAuditName

The name of the scheduled audit.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

targetCheckNames

Which checks are performed during the scheduled audit. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: Array of strings

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeSecurityProfile

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Gets information about a Device Defender security profile.

Requires permission to access the [DescribeSecurityProfile](#) action.

Request Syntax

```
GET /security-profiles/securityProfileName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

securityProfileName

The name of the security profile whose information you want to get.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "additionalMetricsToRetain": [ "string" ],
  "additionalMetricsToRetainV2": [
    {
      "exportMetric": boolean,
      "metric": "string",
      "metricDimension": {
        "dimensionName": "string",
        "operator": "string"
      }
    }
  ],
  "alertTargets": {
    "string" : {
      "alertTargetArn": "string",
      "roleArn": "string"
    }
  },
  "behaviors": [
    {
      "criteria": {
        "comparisonOperator": "string",
        "consecutiveDatapointsToAlarm": number,
        "consecutiveDatapointsToClear": number,
        "durationSeconds": number,
        "mlDetectionConfig": {
          "confidenceLevel": "string"
        },
        "statisticalThreshold": {
          "statistic": "string"
        },
        "value": {
          "cidrs": [ "string" ],
          "count": number,
          "number": number,
          "numbers": [ number ],
          "ports": [ number ],
          "strings": [ "string" ]
        }
      },
      "exportMetric": boolean,
      "metric": "string",

```

```

    "metricDimension": {
      "dimensionName": "string",
      "operator": "string"
    },
    "name": "string",
    "suppressAlerts": boolean
  }
],
"creationDate": number,
"lastModifiedDate": number,
"metricsExportConfig": {
  "mqttTopic": "string",
  "roleArn": "string"
},
"securityProfileArn": "string",
"securityProfileDescription": "string",
"securityProfileName": "string",
"version": number
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

additionalMetricsToRetain

This parameter has been deprecated.

Please use [DescribeSecurityProfile:additionalMetricsToRetainV2](#) instead.

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here.

Type: Array of strings

additionalMetricsToRetainV2

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here.

Type: Array of [MetricToRetain](#) objects

alertTargets

Where the alerts are sent. (Alerts are always sent to the console.)

Type: String to [AlertTarget](#) object map

Valid Keys: SNS

behaviors

Specifies the behaviors that, when violated by a device (thing), cause an alert.

Type: Array of [Behavior](#) objects

Array Members: Maximum number of 100 items.

creationDate

The time the security profile was created.

Type: Timestamp

lastModifiedDate

The time the security profile was last modified.

Type: Timestamp

metricsExportConfig

Specifies the MQTT topic and role ARN required for metric export.

Type: [MetricsExportConfig](#) object

securityProfileArn

The ARN of the security profile.

Type: String

securityProfileDescription

A description of the security profile (associated with the security profile when it was created or updated).

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\p{Graph}\x20]*`

securityProfileName

The name of the security profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

version

The version of the security profile. A new version is generated whenever the security profile is updated.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeStream

Service: AWS IoT

Gets information about a stream.

Requires permission to access the [DescribeStream](#) action.

Request Syntax

```
GET /streams/streamId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

streamId

The stream ID.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "streamInfo": {
    "createdAt": number,
    "description": "string",
    "files": [
      {
        "fileId": number,
        "s3Location": {
```



```
        "bucket": "string",
        "key": "string",
        "version": "string"
      }
    ],
    "lastUpdatedAt": number,
    "roleArn": "string",
    "streamArn": "string",
    "streamId": "string",
    "streamVersion": number
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

streamInfo

Information about the stream.

Type: [StreamInfo](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeThing

Service: AWS IoT

Gets information about the specified thing.

Requires permission to access the [DescribeThing](#) action.

Request Syntax

```
GET /things/thingName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

thingName

The name of the thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "attributes": {
    "string" : "string"
  },
  "billingGroupName": "string",
  "defaultClientId": "string",
  "thingArn": "string",
```

```
"thingId": "string",  
"thingName": "string",  
"thingTypeName": "string",  
"version": number  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

attributes

The thing attributes.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: [a-zA-Z0-9_.,@/:#-]+

Value Length Constraints: Maximum length of 800.

Value Pattern: [a-zA-Z0-9_.,@/:#=\[\]-]*

billingGroupName

The name of the billing group the thing belongs to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

defaultClientId

The default MQTT client ID. For a typical device, the thing name is also used as the default MQTT client ID. Although we don't require a mapping between a thing's registry name and its use of MQTT client IDs, certificates, or shadow state, we recommend that you choose a thing name and use it as the MQTT client ID for the registry and the Device Shadow service.

This lets you better organize your AWS IoT fleet without removing the flexibility of the underlying device certificate model or shadows.

Type: String

thingArn

The ARN of the thing to describe.

Type: String

thingId

The ID of the thing to describe.

Type: String

thingName

The name of the thing.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

thingTypeName

The thing type name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

version

The current version of the thing record in the registry.

Note

To avoid unintentional changes to the information in the registry, you can pass the version information in the `expectedVersion` parameter of the `UpdateThing` and `DeleteThing` calls.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeThingGroup

Service: AWS IoT

Describe a thing group.

Requires permission to access the [DescribeThingGroup](#) action.

Request Syntax

```
GET /thing-groups/thingGroupName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

thingGroupName

The name of the thing group.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "indexName": "string",
  "queryString": "string",
  "queryVersion": "string",
  "status": "string",
  "thingGroupArn": "string",
  "thingGroupId": "string",
```

```
"thingGroupMetadata": {
  "creationDate": number,
  "parentGroupName": "string",
  "rootToParentThingGroups": [
    {
      "groupArn": "string",
      "groupName": "string"
    }
  ],
},
"thingGroupName": "string",
"thingGroupProperties": {
  "attributePayload": {
    "attributes": {
      "string" : "string"
    },
    "merge": boolean
  },
  "thingGroupDescription": "string"
},
"version": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

indexName

The dynamic thing group index name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

queryString

The dynamic thing group search query string.

Type: String

Length Constraints: Minimum length of 1.

[queryVersion](#)

The dynamic thing group query version.

Type: String

[status](#)

The dynamic thing group status.

Type: String

Valid Values: ACTIVE | BUILDING | REBUILDING

[thingGroupArn](#)

The thing group ARN.

Type: String

[thingGroupId](#)

The thing group ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-]+

[thingGroupMetadata](#)

Thing group metadata.

Type: [ThingGroupMetadata](#) object

[thingGroupName](#)

The name of the thing group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

thingGroupProperties

The thing group properties.

Type: [ThingGroupProperties](#) object

version

The version of the thing group.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeThingRegistrationTask

Service: AWS IoT

Describes a bulk thing provisioning task.

Requires permission to access the [DescribeThingRegistrationTask](#) action.

Request Syntax

```
GET /thing-registration-tasks/taskId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId

The task ID.

Length Constraints: Maximum length of 40.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationDate": number,
  "failureCount": number,
  "inputFileBucket": "string",
  "inputFileKey": "string",
  "lastModifiedDate": number,
  "message": "string",
  "percentageProgress": number,
  "roleArn": "string",
```

```
"status": "string",  
"successCount": number,  
"taskId": "string",  
"templateBody": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

creationDate

The task creation date.

Type: Timestamp

failureCount

The number of things that failed to be provisioned.

Type: Integer

inputFileBucket

The S3 bucket that contains the input file.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 256.

Pattern: [a-zA-Z0-9._-]+

inputFileKey

The input file key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: [a-zA-Z0-9!_.*'()-\/*]+

lastModifiedDate

The date when the task was last modified.

Type: Timestamp

message

The message.

Type: String

Length Constraints: Maximum length of 2048.

percentageProgress

The progress of the bulk provisioning task expressed as a percentage.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 100.

roleArn

The role ARN that grants access to the input file bucket.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

status

The status of the bulk thing provisioning task.

Type: String

Valid Values: InProgress | Completed | Failed | Cancelled | Cancelling

successCount

The number of things successfully provisioned.

Type: Integer

taskId

The task ID.

Type: String

Length Constraints: Maximum length of 40.

templateBody

The task's template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: `[\s\S]*`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeThingType

Service: AWS IoT

Gets information about the specified thing type.

Requires permission to access the [DescribeThingType](#) action.

Request Syntax

```
GET /thing-types/thingTypeName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[thingTypeName](#)

The name of the thing type.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "thingTypeArn": string,
  "thingTypeId": string,
  "thingTypeMetadata": {
    "creationDate": number,
    "deprecated": boolean,
    "deprecationDate": number
  },
}
```

```
{
  "thingTypeName": "string",
  "thingTypeProperties": {
    "mqtt5Configuration": {
      "propagatingAttributes": [
        {
          "connectionAttribute": "string",
          "thingAttribute": "string",
          "userPropertyKey": "string"
        }
      ]
    },
    "searchableAttributes": [ "string " ],
    "thingTypeDescription": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[thingTypeArn](#)

The thing type ARN.

Type: String

[thingTypeId](#)

The thing type ID.

Type: String

[thingTypeMetadata](#)

The ThingTypeMetadata contains additional information about the thing type including: creation date and time, a value indicating whether the thing type is deprecated, and a date and time when it was deprecated.

Type: [ThingTypeMetadata](#) object

[thingTypeName](#)

The name of the thing type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

[thingTypeProperties](#)

The ThingTypeProperties contains information about the thing type including description, a list of searchable thing attribute names, and MQTT5 configuration.

Type: [ThingTypeProperties](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DetachPolicy

Service: AWS IoT

Detaches a policy from the specified target.

Note

Because of the distributed nature of AWS, it can take up to five minutes after a policy is detached before it's ready to be deleted.

Requires permission to access the [DetachPolicy](#) action.

Request Syntax

```
POST /target-policies/policyName HTTP/1.1
Content-type: application/json

{
  "target": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[policyName](#)

The policy to detach.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

target

The target from which the policy will be detached.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DetachPrincipalPolicy

Service: AWS IoT

Removes the specified policy from the specified certificate.

Note: This action is deprecated and works as expected for backward compatibility, but we won't add enhancements. Use [DetachPolicy](#) instead.

Requires permission to access the [DetachPrincipalPolicy](#) action.

Request Syntax

```
DELETE /principal-policies/policyName HTTP/1.1
x-amzn-iot-principal: principal
```

URI Request Parameters

The request uses the following URI parameters.

[policyName](#)

The name of the policy to detach.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: Yes

[principal](#)

The principal.

Valid principals are CertificateArn (`arn:aws:iot:region:accountId:cert/certificateId`), thingGroupArn (`arn:aws:iot:region:accountId:thinggroup/groupName`) and Cognitoid (`region:id`).

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DetachSecurityProfile

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Disassociates a Device Defender security profile from a thing group or from this account.

Requires permission to access the [DetachSecurityProfile](#) action.

Request Syntax

```
DELETE /security-profiles/securityProfileName/targets?  
securityProfileTargetArn=securityProfileTargetArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

securityProfileName

The security profile that is detached.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

securityProfileTargetArn

The ARN of the thing group from which the security profile is detached.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DetachThingPrincipal

Service: AWS IoT

Detaches the specified principal from the specified thing. A principal can be X.509 certificates, IAM users, groups, and roles, Amazon Cognito identities or federated identities.

Note

This call is asynchronous. It might take several seconds for the detachment to propagate.

Requires permission to access the [DetachThingPrincipal](#) action.

Request Syntax

```
DELETE /things/thingName/principals HTTP/1.1
x-amzn-principal: principal
```

URI Request Parameters

The request uses the following URI parameters.

principal

If the principal is a certificate, this value must be ARN of the certificate. If the principal is an Amazon Cognito identity, this value must be the ID of the Amazon Cognito identity.

Required: Yes

thingName

The name of the thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DisableTopicRule

Service: AWS IoT

Disables the rule.

Requires permission to access the [DisableTopicRule](#) action.

Request Syntax

```
POST /rules/ruleName/disable HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ruleName

The name of the rule to disable.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DisassociateSbomFromPackageVersion

Service: AWS IoT

Disassociates the selected software bill of materials (SBOM) from a specific software package version.

Requires permission to access the [DisassociateSbomWithPackageVersion](#) action.

Request Syntax

```
DELETE /packages/packageName/versions/versionName/sbom?clientToken=clientToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[clientToken](#)

A unique case-sensitive identifier that you can provide to ensure the idempotency of the request. Don't reuse this client token if a new idempotent request is required.

Length Constraints: Minimum length of 36. Maximum length of 64.

Pattern: `\S{36,64}`

[packageName](#)

The name of the new software package.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9-_.]+`

Required: Yes

[versionName](#)

The name of the new package version.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_.]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictException

The request conflicts with the current state of the resource.

resourceId

A resource with the same name already exists.

HTTP Status Code: 409

InternalServerError

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

EnableTopicRule

Service: AWS IoT

Enables the rule.

Requires permission to access the [EnableTopicRule](#) action.

Request Syntax

```
POST /rules/ruleName/enable HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ruleName

The name of the topic rule to enable.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetBehaviorModelTrainingSummaries

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Returns a Device Defender's ML Detect Security Profile training model's status.

Requires permission to access the [GetBehaviorModelTrainingSummaries](#) action.

Request Syntax

```
GET /behavior-model-training/summaries?
maxResults=maxResults&nextToken=nextToken&securityProfileName=securityProfileName
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at one time. The default is 10.

Valid Range: Minimum value of 1. Maximum value of 10.

[nextToken](#)

The token for the next set of results.

[securityProfileName](#)

The name of the security profile.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "summaries": [
    {
      "behaviorName": "string",
      "datapointsCollectionPercentage": number,
      "lastModelRefreshDate": number,
      "modelStatus": "string",
      "securityProfileName": "string",
      "trainingDataCollectionStartDate": number
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token that can be used to retrieve the next set of results, or `null` if there are no additional results.

Type: String

summaries

A list of all ML Detect behaviors and their model status for a given Security Profile.

Type: Array of [BehaviorModelTrainingSummary](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetBucketsAggregation

Service: AWS IoT

Aggregates on indexed data with search queries pertaining to particular fields.

Requires permission to access the [GetBucketsAggregation](#) action.

Request Syntax

```
POST /indices/buckets HTTP/1.1
Content-type: application/json

{
  "aggregationField": "string",
  "bucketsAggregationType": {
    "termsAggregation": {
      "maxBuckets": number
    }
  },
  "indexName": "string",
  "queryString": "string",
  "queryVersion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

aggregationField

The aggregation field.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

bucketsAggregationType

The basic control of the response shape and the bucket aggregation type to perform.

Type: [BucketsAggregationType](#) object

Required: Yes

indexName

The name of the index to search.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

queryString

The search query string.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

queryVersion

The version of the query.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
```

```
"buckets": [  
  {  
    "count": number,  
    "keyValue": "string"  
  }  
],  
"totalCount": number  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[buckets](#)

The main part of the response with a list of buckets. Each bucket contains a `keyValue` and a `count`.

`keyValue`: The aggregation field value counted for the particular bucket.

`count`: The number of documents that have that value.

Type: Array of [Bucket](#) objects

[totalCount](#)

The total number of things that fit the query string criteria.

Type: Integer

Errors

IndexNotReadyException

The index is not ready.

message

The message for the exception.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidAggregationException

The aggregation is invalid.

HTTP Status Code: 400

InvalidQueryException

The query is invalid.

message

The message for the exception.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetCardinality

Service: AWS IoT

Returns the approximate count of unique values that match the query.

Requires permission to access the [GetCardinality](#) action.

Request Syntax

```
POST /indices/cardinality HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "aggregationField": "string",
  "indexName": "string",
  "queryString": "string",
  "queryVersion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

aggregationField

The field to aggregate.

Type: String

Length Constraints: Minimum length of 1.

Required: No

indexName

The name of the index to search.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

[queryString](#)

The search query string.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

[queryVersion](#)

The query version.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "cardinality": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[cardinality](#)

The approximate count of unique values that match the query.

Type: Integer

Errors

IndexNotReadyException

The index is not ready.

message

The message for the exception.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidAggregationException

The aggregation is invalid.

HTTP Status Code: 400

InvalidQueryException

The query is invalid.

message

The message for the exception.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetCommand

Service: AWS IoT

Gets information about the specified command.

Request Syntax

```
GET /commands/commandId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

commandId

The unique identifier of the command for which you want to retrieve information.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "commandArn": "string",
  "commandId": "string",
  "createdAt": number,
  "deprecated": boolean,
  "description": "string",
  "displayName": "string",
  "lastUpdatedAt": number,
  "mandatoryParameters": [
    {
```

```

    "defaultValue": {
      "B": boolean,
      "BIN": blob,
      "D": number,
      "I": number,
      "L": number,
      "S": "string",
      "UL": "string"
    },
    "description": "string",
    "name": "string",
    "type": "string",
    "value": {
      "B": boolean,
      "BIN": blob,
      "D": number,
      "I": number,
      "L": number,
      "S": "string",
      "UL": "string"
    },
    "valueConditions": [
      {
        "comparisonOperator": "string",
        "operand": {
          "number": "string",
          "numberRange": {
            "max": "string",
            "min": "string"
          },
          "numbers": [ "string" ],
          "string": "string",
          "strings": [ "string" ]
        }
      }
    ]
  },
  "namespace": "string",
  "payload": {
    "content": blob,
    "contentType": "string"
  },
  "payloadTemplate": "string",

```

```
"pendingDeletion": boolean,
"preprocessor": {
  "awsJsonSubstitution": {
    "outputFormat": "string"
  }
},
"roleArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

commandArn

The Amazon Resource Number (ARN) of the command. For example, `arn:aws:iot:<region>:<accountid>:command/<commandId>`

Type: String

commandId

The unique identifier of the command.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

createdAt

The timestamp, when the command was created.

Type: Timestamp

deprecated

Indicates whether the command has been deprecated.

Type: Boolean

description

A short text description of the command.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]*`

displayName

The user-friendly name in the console for the command.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[^\p{C}]*`

lastUpdatedAt

The timestamp, when the command was last updated.

Type: Timestamp

mandatoryParameters

A list of parameters for the command created.

Type: Array of [CommandParameter](#) objects

Array Members: Minimum number of 1 item.

namespace

The namespace of the command.

Type: String

Valid Values: `AWS-IoT` | `AWS-IoT-FleetWise`

payload

The payload object that you provided for the command.

Type: [CommandPayload](#) object

payloadTemplate

The payload template for the dynamic command.

Type: String

Length Constraints: Maximum length of 32768.

pendingDeletion

Indicates whether the command is being deleted.

Type: Boolean

preprocessor

Configuration that determines how `payloadTemplate` is processed to generate command execution payload.

Type: [CommandPreprocessor](#) object

roleArn

The IAM role that you provided when creating the command with AWS-IoT-FleetWise as the namespace.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Errors

InternalServerErrorException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetCommandExecution

Service: AWS IoT

Gets information about the specific command execution on a single device.

Request Syntax

```
GET /command-executions/executionId?includeResult=includeResult&targetArn=targetArn
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

executionId

The unique identifier for the command execution. This information is returned as a response of the StartCommandExecution API request.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

includeResult

Can be used to specify whether to include the result of the command execution in the GetCommandExecution API response. Your device can use this field to provide additional information about the command execution. You only need to specify this field when using the AWS-IoT namespace.

targetArn

The Amazon Resource Number (ARN) of the device on which the command execution is being performed.

Length Constraints: Maximum length of 2048.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "commandArn": "string",
  "completedAt": number,
  "createdAt": number,
  "executionId": "string",
  "executionTimeoutSeconds": number,
  "lastUpdatedAt": number,
  "parameters": {
    "string" : {
      "B": boolean,
      "BIN": blob,
      "D": number,
      "I": number,
      "L": number,
      "S": "string",
      "UL": "string"
    }
  },
  "result": {
    "string" : {
      "B": boolean,
      "BIN": blob,
      "S": "string"
    }
  },
  "startedAt": number,
  "status": "string",
  "statusReason": {
    "reasonCode": "string",
    "reasonDescription": "string"
  },
  "targetArn": "string",
  "timeToLive": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

commandArn

The Amazon Resource Number (ARN) of the command. For example, `arn:aws:iot:<region>:<accountid>:command/<commandId>`

Type: String

completedAt

The timestamp, when the command execution was completed.

Type: Timestamp

createdAt

The timestamp, when the command execution was created.

Type: Timestamp

executionId

The unique identifier of the command execution.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

executionTimeoutSeconds

Specifies the amount of time in seconds that the device can take to finish a command execution. A timer starts when the command execution is created. If the command execution status is not set to another terminal state before the timer expires, it will automatically update to `TIMED_OUT`.

Type: Long

Valid Range: Minimum value of 1.

lastUpdatedAt

The timestamp, when the command execution was last updated.

Type: Timestamp

parameters

The list of parameters that the `StartCommandExecution` API used when performing the command on the device.

Type: String to [CommandParameterValue](#) object map

Map Entries: Maximum number of items.

Key Length Constraints: Minimum length of 1. Maximum length of 192.

Key Pattern: `^[. $a-zA-Z0-9_-]+$`

result

The result value for the current state of the command execution. The status provides information about the progress of the command execution. The device can use the result field to share additional details about the execution such as a return value of a remote function call.

Note

If you use the `AWS-IoT-FleetWise` namespace, then this field is not applicable in the API response.

Type: String to [CommandExecutionResult](#) object map

Map Entries: Maximum number of items.

Key Length Constraints: Minimum length of 1. Maximum length of 32.

Key Pattern: `[a-zA-Z0-9_-]+`

startedAt

The timestamp, when the command execution was started.

Type: Timestamp

status

The status of the command execution. After your devices receive the command and start performing the operations specified in the command, it can use the `UpdateCommandExecution` MQTT API to update the status information.

Type: String

Valid Values: `CREATED` | `IN_PROGRESS` | `SUCCEEDED` | `FAILED` | `REJECTED` | `TIMED_OUT`

statusReason

Your devices can use this parameter to provide additional context about the status of a command execution using a reason code and description.

Type: [StatusReason](#) object

targetArn

The Amazon Resource Number (ARN) of the device on which the command execution is being performed.

Type: String

Length Constraints: Maximum length of 2048.

timeToLive

The time to live (TTL) parameter that indicates the duration for which executions will be retained in your account. The default value is six months.

Type: Timestamp

Errors

InternalServerErrorException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetEffectivePolicies

Service: AWS IoT

Gets a list of the policies that have an effect on the authorization behavior of the specified device when it connects to the AWS IoT device gateway.

Requires permission to access the [GetEffectivePolicies](#) action.

Request Syntax

```
POST /effective-policies?thingName=thingName HTTP/1.1
Content-type: application/json

{
  "cognitoIdentityPoolId": "string",
  "principal": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingName](#)

The thing name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Request Body

The request accepts the following data in JSON format.

[cognitoIdentityPoolId](#)

The Cognito identity pool ID.

Type: String

Required: No

principal

The principal. Valid principals are CertificateArn (arn:aws:iot:region:accountId:cert/certificateId), thingGroupArn (arn:aws:iot:region:accountId:thinggroup/groupName) and Cognitoid (region:id).

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "effectivePolicies": [
    {
      "policyArn": "string",
      "policyDocument": "string",
      "policyName": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

effectivePolicies

The effective policies.

Type: Array of [EffectivePolicy](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetIndexingConfiguration

Service: AWS IoT

Gets the indexing configuration.

Requires permission to access the [GetIndexingConfiguration](#) action.

Request Syntax

```
GET /indexing/config HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "thingGroupIndexingConfiguration": {
    "customFields": [
      {
        "name": "string",
        "type": "string"
      }
    ],
    "managedFields": [
      {
        "name": "string",
        "type": "string"
      }
    ],
    "thingGroupIndexingMode": "string"
  },
  "thingIndexingConfiguration": {
    "customFields": [
      {
```

```

        "name": "string",
        "type": "string"
    }
],
"deviceDefenderIndexingMode": "string",
"filter": {
    "connectivity": {
        "includeSocketInformation": [ "string" ]
    },
    "geoLocations": [
        {
            "name": "string",
            "order": "string"
        }
    ],
    "namedShadowNames": [ "string" ]
},
"managedFields": [
    {
        "name": "string",
        "type": "string"
    }
],
"namedShadowIndexingMode": "string",
"thingConnectivityIndexingMode": "string",
"thingIndexingMode": "string"
}
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[thingGroupIndexingConfiguration](#)

The index configuration.

Type: [ThingGroupIndexingConfiguration](#) object

[thingIndexingConfiguration](#)

Thing indexing configuration.

Type: [ThingIndexingConfiguration](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetJobDocument

Service: AWS IoT

Gets a job document.

Requires permission to access the [GetJobDocument](#) action.

Request Syntax

```
GET /jobs/jobId/job-document?beforeSubstitution=beforeSubstitution HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[beforeSubstitution](#)

Provides a view of the job document before and after the substitution parameters have been resolved with their exact values.

[jobId](#)

The unique identifier you assigned to this job when it was created.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "document": "string"
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

document

The job document content.

Type: String

Length Constraints: Maximum length of 32768.

Errors

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetLoggingOptions

Service: AWS IoT

Gets the logging options.

NOTE: use of this command is not recommended. Use `GetV2LoggingOptions` instead.

Requires permission to access the [GetLoggingOptions](#) action.

Request Syntax

```
GET /loggingOptions HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "logLevel": "string",
  "roleArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[logLevel](#)

The logging level.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

roleArn

The ARN of the IAM role that grants access.

Type: String

Errors

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetOTAUpdate

Service: AWS IoT

Gets an OTA update.

Requires permission to access the [GetOTAUpdate](#) action.

Request Syntax

```
GET /otaUpdates/otaUpdateId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

otaUpdateId

The OTA update ID.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "otaUpdateInfo": {
    "additionalParameters": {
      "string" : "string"
    },
    "awsIotJobArn": "string",
    "awsIotJobId": "string",
    "awsJobExecutionsRolloutConfig": {
```



```

    "exponentialRate": {
      "baseRatePerMinute": number,
      "incrementFactor": number,
      "rateIncreaseCriteria": {
        "numberOfNotifiedThings": number,
        "numberOfSucceededThings": number
      }
    },
    "maximumPerMinute": number
  },
  "awsJobPresignedUrlConfig": {
    "expiresInSec": number
  },
  "creationDate": number,
  "description": "string",
  "errorInfo": {
    "code": "string",
    "message": "string"
  },
  "lastModifiedDate": number,
  "otaUpdateArn": "string",
  "otaUpdateFiles": [
    {
      "attributes": {
        "string" : "string"
      },
      "codeSigning": {
        "awsSignerJobId": "string",
        "customCodeSigning": {
          "certificateChain": {
            "certificateName": "string",
            "inlineDocument": "string"
          },
          "hashAlgorithm": "string",
          "signature": {
            "inlineDocument": blob
          },
          "signatureAlgorithm": "string"
        },
        "startSigningJobParameter": {
          "destination": {
            "s3Destination": {
              "bucket": "string",
              "prefix": "string"
            }
          }
        }
      }
    }
  ]
}

```

```

        }
      },
      "signingProfileName": "string",
      "signingProfileParameter": {
        "certificateArn": "string",
        "certificatePathOnDevice": "string",
        "platform": "string"
      }
    },
    "fileLocation": {
      "s3Location": {
        "bucket": "string",
        "key": "string",
        "version": "string"
      },
      "stream": {
        "fileId": number,
        "streamId": "string"
      }
    },
    "fileName": "string",
    "fileType": number,
    "fileVersion": "string"
  }
],
"otaUpdateId": "string",
"otaUpdateStatus": "string",
"protocols": [ "string" ],
"targets": [ "string" ],
"targetSelection": "string"
}
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

otaUpdateInfo

The OTA update info.

Type: [OTAUpdateInfo](#) object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetPackage

Service: AWS IoT

Gets information about the specified software package.

Requires permission to access the [GetPackage](#) action.

Request Syntax

```
GET /packages/packageName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[packageName](#)

The name of the target software package.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9-_.]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationDate": number,
  "defaultVersionName": "string",
  "description": "string",
  "lastModifiedDate": number,
  "packageArn": "string",
  "packageName": "string"
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

creationDate

The date the package was created.

Type: Timestamp

defaultVersionName

The name of the default package version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-_.]+

description

The package description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: [^\p{C}]+

lastModifiedDate

The date when the package was last updated.

Type: Timestamp

packageArn

The ARN for the package.

Type: String

packageName

The name of the software package.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9-_.]+

Errors

InternalServerError

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetPackageConfiguration

Service: AWS IoT

Gets information about the specified software package's configuration.

Requires permission to access the [GetPackageConfiguration](#) action.

Request Syntax

```
GET /package-configuration HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "versionUpdateByJobsConfig": {
    "enabled": boolean,
    "roleArn": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[versionUpdateByJobsConfig](#)

The version that is associated to a specific job.

Type: [VersionUpdateByJobsConfig](#) object

Errors

InternalServerErrorException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetPackageVersion

Service: AWS IoT

Gets information about the specified package version.

Requires permission to access the [GetPackageVersion](#) action.

Request Syntax

```
GET /packages/packageName/versions/versionName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

packageName

The name of the associated package.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9-_.]+

Required: Yes

versionName

The name of the target package version.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-_.]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "artifact": {
    "s3Location": {
      "bucket": "string",
      "key": "string",
      "version": "string"
    }
  },
  "attributes": {
    "string" : "string"
  },
  "creationDate": number,
  "description": "string",
  "errorReason": "string",
  "lastModifiedDate": number,
  "packageName": "string",
  "packageVersionArn": "string",
  "recipe": "string",
  "sbom": {
    "s3Location": {
      "bucket": "string",
      "key": "string",
      "version": "string"
    }
  },
  "sbomValidationStatus": "string",
  "status": "string",
  "versionName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

artifact

The various components that make up a software package version.

Type: [PackageVersionArtifact](#) object

attributes

Metadata that were added to the package version that can be used to define a package version's configuration.

Type: String to string map

Key Length Constraints: Minimum length of 1.

Key Pattern: `[a-zA-Z0-9:_-]+`

Value Length Constraints: Minimum length of 1.

Value Pattern: `[\p{C}]+`

creationDate

The date when the package version was created.

Type: Timestamp

description

The package version description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `[\p{C}]+`

errorReason

Error reason for a package version failure during creation or update.

Type: String

lastModifiedDate

The date when the package version was last updated.

Type: Timestamp

packageName

The name of the software package.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9-_.]+

packageVersionArn

The ARN for the package version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: ^arn:[!-~]+\$

recipe

The inline job document associated with a software package version used for a quick job deployment.

Type: String

Length Constraints: Maximum length of 3072.

sbom

The software bill of materials for a software package version.

Type: [Sbom](#) object

sbomValidationStatus

The status of the validation for a new software bill of materials added to a software package version.

Type: String

Valid Values: IN_PROGRESS | FAILED | SUCCEEDED

status

The status associated to the package version. For more information, see [Package version lifecycle](#).

Type: String

Valid Values: DRAFT | PUBLISHED | DEPRECATED

versionName

The name of the package version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-_.]+

Errors

InternalServerError

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetPercentiles

Service: AWS IoT

Groups the aggregated values that match the query into percentile groupings. The default percentile groupings are: 1,5,25,50,75,95,99, although you can specify your own when you call `GetPercentiles`. This function returns a value for each percentile group specified (or the default percentile groupings). The percentile group "1" contains the aggregated field value that occurs in approximately one percent of the values that match the query. The percentile group "5" contains the aggregated field value that occurs in approximately five percent of the values that match the query, and so on. The result is an approximation, the more values that match the query, the more accurate the percentile values.

Requires permission to access the [GetPercentiles](#) action.

Request Syntax

```
POST /indices/percentiles HTTP/1.1
Content-type: application/json
```

```
{
  "aggregationField": "string",
  "indexName": "string",
  "percents": [ number ],
  "queryString": "string",
  "queryVersion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[aggregationField](#)

The field to aggregate.

Type: String

Length Constraints: Minimum length of 1.

Required: No

indexName

The name of the index to search.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

percents

The percentile groups returned.

Type: Array of doubles

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

queryString

The search query string.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

queryVersion

The query version.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "percentiles": [
    {
      "percent": number,
      "value": number
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[percentiles](#)

The percentile values of the aggregated fields.

Type: Array of [PercentPair](#) objects

Errors

IndexNotReadyException

The index is not ready.

message

The message for the exception.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidAggregationException

The aggregation is invalid.

HTTP Status Code: 400

InvalidQueryException

The query is invalid.

message

The message for the exception.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetPolicy

Service: AWS IoT

Gets information about the specified policy with the policy document of the default version.

Requires permission to access the [GetPolicy](#) action.

Request Syntax

```
GET /policies/policyName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

policyName

The name of the policy.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationDate": number,
  "defaultVersionId": "string",
  "generationId": "string",
  "lastModifiedDate": number,
  "policyArn": "string",
  "policyDocument": "string",
```

```
"policyName": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

creationDate

The date the policy was created.

Type: Timestamp

defaultVersionId

The default policy version ID.

Type: String

Pattern: [0-9]+

generationId

The generation ID of the policy.

Type: String

lastModifiedDate

The date the policy was last modified.

Type: Timestamp

policyArn

The policy ARN.

Type: String

policyDocument

The JSON document that describes the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: `[\s\S]*`

policyName

The policy name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetPolicyVersion

Service: AWS IoT

Gets information about the specified policy version.

Requires permission to access the [GetPolicyVersion](#) action.

Request Syntax

```
GET /policies/policyName/version/policyVersionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

policyName

The name of the policy.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: Yes

policyVersionId

The policy version ID.

Pattern: `[0-9 ]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "creationDate": number,
  "generationId": "string",
  "isDefaultVersion": boolean,
  "lastModifiedDate": number,
  "policyArn": "string",
  "policyDocument": "string",
  "policyName": "string",
  "policyVersionId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

creationDate

The date the policy was created.

Type: Timestamp

generationId

The generation ID of the policy version.

Type: String

isDefaultVersion

Specifies whether the policy version is the default.

Type: Boolean

lastModifiedDate

The date the policy was last modified.

Type: Timestamp

policyArn

The policy ARN.

Type: String

policyDocument

The JSON document that describes the policy.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: `[\s\S]*`

policyName

The policy name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

policyVersionId

The policy version ID.

Type: String

Pattern: `[0-9]+`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetRegistrationCode

Service: AWS IoT

Gets a registration code used to register a CA certificate with AWS IoT.

AWS IoT will create a registration code as part of this API call if the registration code doesn't exist or has been deleted. If you already have a registration code, this API call will return the same registration code.

Requires permission to access the [GetRegistrationCode](#) action.

Request Syntax

```
GET /registrationcode HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "registrationCode": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[registrationCode](#)

The CA certificate registration code.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetStatistics

Service: AWS IoT

Returns the count, average, sum, minimum, maximum, sum of squares, variance, and standard deviation for the specified aggregated field. If the aggregation field is of type `String`, only the count statistic is returned.

Requires permission to access the [GetStatistics](#) action.

Request Syntax

```
POST /indices/statistics HTTP/1.1
Content-type: application/json
```

```
{
  "aggregationField": "string",
  "indexName": "string",
  "queryString": "string",
  "queryVersion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[aggregationField](#)

The aggregation field name.

Type: String

Length Constraints: Minimum length of 1.

Required: No

[indexName](#)

The name of the index to search. The default value is `AWS_Things`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

queryString

The query used to search. You can specify "*" for the query string to get the count of all indexed things in your AWS account.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

queryVersion

The version of the query used to search.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "statistics": {
    "average": number,
    "count": number,
    "maximum": number,
    "minimum": number,
    "stdDeviation": number,
    "sum": number,
    "sumOfSquares": number,
    "variance": number
  }
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[statistics](#)

The statistics returned by the Fleet Indexing service based on the query and aggregation field.

Type: [Statistics](#) object

Errors

IndexNotReadyException

The index is not ready.

message

The message for the exception.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidAggregationException

The aggregation is invalid.

HTTP Status Code: 400

InvalidQueryException

The query is invalid.

message

The message for the exception.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetThingConnectivityData

Service: AWS IoT

Retrieves the live connectivity status per device. If a device has never connected to IoT Core or was disconnected for more than 1 hour before fleet indexing's `thingConnectivityIndexingMode` was enabled, the response will have the `connected` field set to `false` with no additional session details.

Request Syntax

```
POST /things/thingName/connectivity-data HTTP/1.1
Content-type: application/json

{
  "includeSocketInformation": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

thingName

The name of your IoT thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

includeSocketInformation

Specifies if socket information (`sourcePort`, `targetPort`, `sourceIp`, `targetIp`, `vpcEndpointId`) should be included in the `GetThingConnectivityData` response. Set to `true` to include socket information. Set to `false` to omit socket information. By default, this is set to `false`.

Type: Boolean

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "cleanSession": boolean,
  "clientId": "string",
  "connected": boolean,
  "disconnectReason": "string",
  "keepAliveDuration": number,
  "sessionExpiry": number,
  "sourceIp": "string",
  "sourcePort": number,
  "targetIp": "string",
  "targetPort": number,
  "thingName": "string",
  "timestamp": number,
  "vpcEndpointId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[cleanSession](#)

Indicates whether the client is using a clean session. Returns `true` for clean sessions.

Type: Boolean

[clientId](#)

The unique identifier of the MQTT client.

Type: String

connected

A Boolean that indicates the connectivity status.

Type: Boolean

disconnectReason

The reason that the client is disconnected.

Type: String

Valid Values: AUTH_ERROR | CLIENT_INITIATED_DISCONNECT | CLIENT_ERROR | CONNECTION_LOST | DUPLICATE_CLIENTID | FORBIDDEN_ACCESS | MQTT_KEEP_ALIVE_TIMEOUT | SERVER_ERROR | SERVER_INITIATED_DISCONNECT | API_INITIATED_DISCONNECT | THROTTLED | WEBSOCKET_TTL_EXPIRATION | CUSTOMAUTH_TTL_EXPIRATION | UNKNOWN | NONE

keepAliveDuration

The keep-alive interval in seconds that the client specified when establishing the connection.

Type: Integer

sessionExpiry

The session expiry interval in seconds for the MQTT client connection. This value indicates how long the session will remain active after the client disconnects.

Type: Long

sourceIp

The IP address of the client that initiated the connection.

Type: String

sourcePort

The client's source port.

Type: Integer

targetIp

The IP address of the AWS IoT Core endpoint that the client connected to.

Type: String

targetPort

The port number of the AWS IoT Core endpoint that the client connected to.

Type: Integer

thingName

The name of your IoT thing.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

timestamp

The timestamp of when the device connected or disconnected.

Type: Timestamp

vpcEndpointId

The ID of the VPC endpoint. Present for clients connected to AWS IoT Core via a VPC endpoint.

Type: String

Errors

IndexNotReadyException

The index is not ready.

message

The message for the exception.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetTopicRule

Service: AWS IoT

Gets information about the rule.

Requires permission to access the [GetTopicRule](#) action.

Request Syntax

```
GET /rules/ruleName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

ruleName

The name of the rule.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "rule": {
    "actions": [
      {
        "cloudwatchAlarm": {
          "alarmName": "string",
          "roleArn": "string",
          "stateReason": "string",
```

```
    "stateValue": "string"
  },
  "cloudwatchLogs": {
    "batchMode": boolean,
    "logGroupName": "string",
    "roleArn": "string"
  },
  "cloudwatchMetric": {
    "metricName": "string",
    "metricNamespace": "string",
    "metricTimestamp": "string",
    "metricUnit": "string",
    "metricValue": "string",
    "roleArn": "string"
  },
  "dynamoDB": {
    "hashKeyField": "string",
    "hashKeyType": "string",
    "hashKeyValue": "string",
    "operation": "string",
    "payloadField": "string",
    "rangeKeyField": "string",
    "rangeKeyType": "string",
    "rangeKeyValue": "string",
    "roleArn": "string",
    "tableName": "string"
  },
  "dynamoDBv2": {
    "putItem": {
      "tableName": "string"
    },
    "roleArn": "string"
  },
  "elasticsearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
  },
  "firehose": {
    "batchMode": boolean,
    "deliveryStreamName": "string",
    "roleArn": "string",
```

```
    "separator": "string"
  },
  "http": {
    "auth": {
      "sigv4": {
        "roleArn": "string",
        "serviceName": "string",
        "signingRegion": "string"
      }
    },
    "batchConfig": {
      "batchAcrossTopics": boolean,
      "maxBatchOpenMs": number,
      "maxBatchSize": number,
      "maxBatchSizeBytes": number
    },
    "confirmationUrl": "string",
    "enableBatching": boolean,
    "headers": [
      {
        "key": "string",
        "value": "string"
      }
    ],
    "url": "string"
  },
  "iotAnalytics": {
    "batchMode": boolean,
    "channelArn": "string",
    "channelName": "string",
    "roleArn": "string"
  },
  "iotEvents": {
    "batchMode": boolean,
    "inputName": "string",
    "messageId": "string",
    "roleArn": "string"
  },
  "iotSiteWise": {
    "putAssetPropertyValueEntries": [
      {
        "assetId": "string",
        "entryId": "string",
        "propertyAlias": "string",
```



```

        "propertyId": "string",
        "propertyValues": [
            {
                "quality": "string",
                "timestamp": {
                    "offsetInNanos": "string",
                    "timeInSeconds": "string"
                },
                "value": {
                    "booleanValue": "string",
                    "doubleValue": "string",
                    "integerValue": "string",
                    "stringValue": "string"
                }
            }
        ]
    },
    "roleArn": "string"
},
"kafka": {
    "clientProperties": {
        "string" : "string"
    },
    "destinationArn": "string",
    "headers": [
        {
            "key": "string",
            "value": "string"
        }
    ],
    "key": "string",
    "partition": "string",
    "topic": "string"
},
"kinesis": {
    "partitionKey": "string",
    "roleArn": "string",
    "streamName": "string"
},
"lambda": {
    "functionArn": "string"
},
"location": {

```

```
    "deviceId": "string",
    "latitude": "string",
    "longitude": "string",
    "roleArn": "string",
    "timestamp": {
        "unit": "string",
        "value": "string"
    },
    "trackerName": "string"
},
"openSearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
},
"republish": {
    "headers": {
        "contentType": "string",
        "correlationData": "string",
        "messageExpiry": "string",
        "payloadFormatIndicator": "string",
        "responseTopic": "string",
        "userProperties": [
            {
                "key": "string",
                "value": "string"
            }
        ]
    },
    "qos": number,
    "roleArn": "string",
    "topic": "string"
},
"s3": {
    "bucketName": "string",
    "cannedAcl": "string",
    "key": "string",
    "roleArn": "string"
},
"salesforce": {
    "token": "string",
    "url": "string"
}
```

```

    },
    "sns": {
      "messageFormat": "string",
      "roleArn": "string",
      "targetArn": "string"
    },
    "sqs": {
      "queueUrl": "string",
      "roleArn": "string",
      "useBase64": boolean
    },
    "stepFunctions": {
      "executionNamePrefix": "string",
      "roleArn": "string",
      "stateMachineName": "string"
    },
    "timestream": {
      "databaseName": "string",
      "dimensions": [
        {
          "name": "string",
          "value": "string"
        }
      ],
      "roleArn": "string",
      "tableName": "string",
      "timestamp": {
        "unit": "string",
        "value": "string"
      }
    }
  }
],
"awsIotSqlVersion": "string",
"createdAt": number,
"description": "string",
"errorAction": {
  "cloudwatchAlarm": {
    "alarmName": "string",
    "roleArn": "string",
    "stateReason": "string",
    "stateValue": "string"
  },
  "cloudwatchLogs": {

```

```
    "batchMode": boolean,
    "logGroupName": "string",
    "roleArn": "string"
  },
  "cloudwatchMetric": {
    "metricName": "string",
    "metricNamespace": "string",
    "metricTimestamp": "string",
    "metricUnit": "string",
    "metricValue": "string",
    "roleArn": "string"
  },
  "dynamoDB": {
    "hashKeyField": "string",
    "hashKeyType": "string",
    "hashKeyValue": "string",
    "operation": "string",
    "payloadField": "string",
    "rangeKeyField": "string",
    "rangeKeyType": "string",
    "rangeKeyValue": "string",
    "roleArn": "string",
    "tableName": "string"
  },
  "dynamoDBv2": {
    "putItem": {
      "tableName": "string"
    },
    "roleArn": "string"
  },
  "elasticsearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
  },
  "firehose": {
    "batchMode": boolean,
    "deliveryStreamName": "string",
    "roleArn": "string",
    "separator": "string"
  },
  "http": {
```

```

    "auth": {
      "sigv4": {
        "roleArn": "string",
        "serviceName": "string",
        "signingRegion": "string"
      }
    },
    "batchConfig": {
      "batchAcrossTopics": boolean,
      "maxBatchOpenMs": number,
      "maxBatchSize": number,
      "maxBatchSizeBytes": number
    },
    "confirmationUrl": "string",
    "enableBatching": boolean,
    "headers": [
      {
        "key": "string",
        "value": "string"
      }
    ],
    "url": "string"
  },
  "iotAnalytics": {
    "batchMode": boolean,
    "channelArn": "string",
    "channelName": "string",
    "roleArn": "string"
  },
  "iotEvents": {
    "batchMode": boolean,
    "inputName": "string",
    "messageId": "string",
    "roleArn": "string"
  },
  "iotSiteWise": {
    "putAssetPropertyValueEntries": [
      {
        "assetId": "string",
        "entryId": "string",
        "propertyAlias": "string",
        "propertyId": "string",
        "propertyValues": [

```

```

        "quality": "string",
        "timestamp": {
            "offsetInNanos": "string",
            "timeInSeconds": "string"
        },
        "value": {
            "booleanValue": "string",
            "doubleValue": "string",
            "integerValue": "string",
            "stringValue": "string"
        }
    }
]
},
"roleArn": "string"
},
"kafka": {
    "clientProperties": {
        "string": "string"
    },
    "destinationArn": "string",
    "headers": [
        {
            "key": "string",
            "value": "string"
        }
    ],
    "key": "string",
    "partition": "string",
    "topic": "string"
},
"kinesis": {
    "partitionKey": "string",
    "roleArn": "string",
    "streamName": "string"
},
"lambda": {
    "functionArn": "string"
},
"location": {
    "deviceId": "string",
    "latitude": "string",
    "longitude": "string",

```

```

    "roleArn": "string",
    "timestamp": {
      "unit": "string",
      "value": "string"
    },
    "trackerName": "string"
  },
  "openSearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
  },
  "republish": {
    "headers": {
      "contentType": "string",
      "correlationData": "string",
      "messageExpiry": "string",
      "payloadFormatIndicator": "string",
      "responseTopic": "string",
      "userProperties": [
        {
          "key": "string",
          "value": "string"
        }
      ]
    },
    "qos": number,
    "roleArn": "string",
    "topic": "string"
  },
  "s3": {
    "bucketName": "string",
    "cannedAcl": "string",
    "key": "string",
    "roleArn": "string"
  },
  "salesforce": {
    "token": "string",
    "url": "string"
  },
  "sns": {
    "messageFormat": "string",

```

```

        "roleArn": "string",
        "targetArn": "string"
    },
    "sqs": {
        "queueUrl": "string",
        "roleArn": "string",
        "useBase64": boolean
    },
    "stepFunctions": {
        "executionNamePrefix": "string",
        "roleArn": "string",
        "stateMachineName": "string"
    },
    "timestream": {
        "databaseName": "string",
        "dimensions": [
            {
                "name": "string",
                "value": "string"
            }
        ],
        "roleArn": "string",
        "tableName": "string",
        "timestamp": {
            "unit": "string",
            "value": "string"
        }
    },
    "ruleDisabled": boolean,
    "ruleName": "string",
    "sql": "string"
},
"ruleArn": "string"
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

rule

The rule.

Type: [TopicRule](#) object

ruleArn

The rule ARN.

Type: String

Errors

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetTopicRuleDestination

Service: AWS IoT

Gets information about a topic rule destination.

Requires permission to access the [GetTopicRuleDestination](#) action.

Request Syntax

```
GET /destinations/arn+ HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[arn](#)

The ARN of the topic rule destination.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "topicRuleDestination": {
    "arn": "string",
    "createdAt": number,
    "httpUrlProperties": {
      "confirmationUrl": "string"
    },
    "lastUpdatedAt": number,
    "status": "string",
    "statusReason": "string",
    "vpcProperties": {
```

```
    "roleArn": "string",
    "securityGroups": [ "string" ],
    "subnetIds": [ "string" ],
    "vpcId": "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[topicRuleDestination](#)

The topic rule destination.

Type: [TopicRuleDestination](#) object

Errors

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
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- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetV2LoggingOptions

Service: AWS IoT

Gets the fine grained logging options.

Requires permission to access the [GetV2LoggingOptions](#) action.

Request Syntax

```
GET /v2LoggingOptions?verbose=verbose HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

verbose

The flag is used to get all the event types and their respective configuration that event-based logging supports.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "defaultLogLevel": "string",
  "disableAllLogs": boolean,
  "eventConfigurations": [
    {
      "eventType": "string",
      "logDestination": "string",
      "logLevel": "string"
    }
  ],
  "roleArn": "string"
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[defaultLogLevel](#)

The default log level.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

[disableAllLogs](#)

Disables all logs.

Type: Boolean

[eventConfigurations](#)

The list of event configurations that override account-level logging.

Type: Array of [LogEventConfiguration](#) objects

[roleArn](#)

The IAM role ARN AWS IoT uses to write to your CloudWatch logs.

Type: String

Errors

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

NotConfiguredException

The resource is not configured.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListActiveViolations

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Lists the active violations for a given Device Defender security profile.

Requires permission to access the [ListActiveViolations](#) action.

Request Syntax

```
GET /active-violations?
behaviorCriteriaType=behaviorCriteriaType&listSuppressedAlerts=listSuppressedAlerts&maxResults=
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[behaviorCriteriaType](#)

The criteria for a behavior.

Valid Values: STATIC | STATISTICAL | MACHINE_LEARNING

[listSuppressedAlerts](#)

A list of all suppressed alerts.

[maxResults](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

The token for the next set of results.

securityProfileName

The name of the Device Defender security profile for which violations are listed.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

thingName

The name of the thing whose active violations are listed.

Length Constraints: Minimum length of 1. Maximum length of 128.

verificationState

The verification state of the violation (detect alarm).

Valid Values: FALSE_POSITIVE | BENIGN_POSITIVE | TRUE_POSITIVE | UNKNOWN

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "activeViolations": [
    {
      "behavior": {
        "criteria": {
          "comparisonOperator": "string",
          "consecutiveDatapointsToAlarm": number,
          "consecutiveDatapointsToClear": number,
          "durationSeconds": number,
          "mlDetectionConfig": {
            "confidenceLevel": "string"
          },
          "statisticalThreshold": {
```

```

        "statistic": "string"
    },
    "value": {
        "cidrs": [ "string" ],
        "count": number,
        "number": number,
        "numbers": [ number ],
        "ports": [ number ],
        "strings": [ "string" ]
    }
},
"exportMetric": boolean,
"metric": "string",
"metricDimension": {
    "dimensionName": "string",
    "operator": "string"
},
"name": "string",
"suppressAlerts": boolean
},
"lastViolationTime": number,
"lastViolationValue": {
    "cidrs": [ "string" ],
    "count": number,
    "number": number,
    "numbers": [ number ],
    "ports": [ number ],
    "strings": [ "string" ]
},
"securityProfileName": "string",
"thingName": "string",
"verificationState": "string",
"verificationStateDescription": "string",
"violationEventAdditionalInfo": {
    "confidenceLevel": "string"
},
"violationId": "string",
"violationStartTime": number
}
],
"nextToken": "string"
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

activeViolations

The list of active violations.

Type: Array of [ActiveViolation](#) objects

nextToken

A token that can be used to retrieve the next set of results, or `null` if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListAttachedPolicies

Service: AWS IoT

Lists the policies attached to the specified thing group.

Requires permission to access the [ListAttachedPolicies](#) action.

Request Syntax

```
POST /attached-policies/target?marker=marker&pageSize=pageSize&recursive=recursive
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[marker](#)

The token to retrieve the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: `[A-Za-z0-9+/-]{0,2}`

[pageSize](#)

The maximum number of results to be returned per request.

Valid Range: Minimum value of 1. Maximum value of 250.

[recursive](#)

When true, recursively list attached policies.

[target](#)

The group or principal for which the policies will be listed. Valid principals are CertificateArn (`arn:aws:iot:region:accountId:cert/certificateId`), thingGroupArn (`arn:aws:iot:region:accountId:thinggroup/groupName`) and CognitoId (`region:id`).

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextMarker": "string",
  "policies": [
    {
      "policyArn": "string",
      "policyName": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextMarker

The token to retrieve the next set of results, or ``null`` if there are no more results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/>]{0,2}

policies

The policies.

Type: Array of [Policy](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListAuditFindings

Service: AWS IoT

Lists the findings (results) of a Device Defender audit or of the audits performed during a specified time period. (Findings are retained for 90 days.)

Requires permission to access the [ListAuditFindings](#) action.

Request Syntax

```
POST /audit/findings HTTP/1.1
Content-type: application/json
```

```
{
  "checkName": "string",
  "endTime": number,
  "listSuppressedFindings": boolean,
  "maxResults": number,
  "nextToken": "string",
  "resourceIdentifier": {
    "account": "string",
    "caCertificateId": "string",
    "clientId": "string",
    "cognitoIdentityPoolId": "string",
    "deviceCertificateArn": "string",
    "deviceCertificateId": "string",
    "iamRoleArn": "string",
    "issuerCertificateIdentifier": {
      "issuerCertificateSerialNumber": "string",
      "issuerCertificateSubject": "string",
      "issuerId": "string"
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  },
  "startTime": number,
  "taskId": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

checkName

A filter to limit results to the findings for the specified audit check.

Type: String

Required: No

endTime

A filter to limit results to those found before the specified time. You must specify either the `startTime` and `endTime` or the `taskId`, but not both.

Type: Timestamp

Required: No

listSuppressedFindings

Boolean flag indicating whether only the suppressed findings or the unsuppressed findings should be listed. If this parameter isn't provided, the response will list both suppressed and unsuppressed findings.

Type: Boolean

Required: No

maxResults

The maximum number of results to return at one time. The default is 25.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 250.

Required: No

nextToken

The token for the next set of results.

Type: String

Required: No

resourceIdentifier

Information identifying the noncompliant resource.

Type: [ResourceIdentifier](#) object

Required: No

startTime

A filter to limit results to those found after the specified time. You must specify either the `startTime` and `endTime` or the `taskId`, but not both.

Type: Timestamp

Required: No

taskId

A filter to limit results to the audit with the specified ID. You must specify either the `taskId` or the `startTime` and `endTime`, but not both.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: `[a-zA-Z0-9\-\-]+`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "findings": [
    {
      "checkName": "string",
      "findingId": "string",
      "findingTime": number,
      "isSuppressed": boolean,
```

```

"nonCompliantResource": {
  "additionalInfo": {
    "string" : "string"
  },
  "resourceIdentifier": {
    "account": "string",
    "caCertificateId": "string",
    "clientId": "string",
    "cognitoIdentityPoolId": "string",
    "deviceCertificateArn": "string",
    "deviceCertificateId": "string",
    "iamRoleArn": "string",
    "issuerCertificateIdentifier": {
      "issuerCertificateSerialNumber": "string",
      "issuerCertificateSubject": "string",
      "issuerId": "string"
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  },
  "resourceType": "string"
},
"reasonForNonCompliance": "string",
"reasonForNonComplianceCode": "string",
"relatedResources": [
  {
    "additionalInfo": {
      "string" : "string"
    },
    "resourceIdentifier": {
      "account": "string",
      "caCertificateId": "string",
      "clientId": "string",
      "cognitoIdentityPoolId": "string",
      "deviceCertificateArn": "string",
      "deviceCertificateId": "string",
      "iamRoleArn": "string",
      "issuerCertificateIdentifier": {
        "issuerCertificateSerialNumber": "string",
        "issuerCertificateSubject": "string",
        "issuerId": "string"
      }
    }
  }
]

```

```
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  },
  "resourceType": "string"
}
],
"severity": "string",
"taskId": "string",
"taskStartTime": number
}
],
"nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[findings](#)

The findings (results) of the audit.

Type: Array of [AuditFinding](#) objects

[nextToken](#)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListAuditMitigationActionsExecutions

Service: AWS IoT

Gets the status of audit mitigation action tasks that were executed.

Requires permission to access the [ListAuditMitigationActionsExecutions](#) action.

Request Syntax

```
GET /audit/mitigationactions/executions?  
actionStatus=actionStatus&findingId=findingId&maxResults=maxResults&nextToken=nextToken&taskId=taskId  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[actionStatus](#)

Specify this filter to limit results to those with a specific status.

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED | SKIPPED | PENDING

[findingId](#)

Specify this filter to limit results to those that were applied to a specific audit finding.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

[maxResults](#)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

The token for the next set of results.

taskId

Specify this filter to limit results to actions for a specific audit mitigation actions task.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "actionsExecutions": [
    {
      "actionId": "string",
      "actionName": "string",
      "endTime": number,
      "errorCode": "string",
      "findingId": "string",
      "message": "string",
      "startTime": number,
      "status": "string",
      "taskId": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

actionsExecutions

A set of task execution results based on the input parameters. Details include the mitigation action applied, start time, and task status.

Type: Array of [AuditMitigationActionExecutionMetadata](#) objects

nextToken

The token for the next set of results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListAuditMitigationActionsTasks

Service: AWS IoT

Gets a list of audit mitigation action tasks that match the specified filters.

Requires permission to access the [ListAuditMitigationActionsTasks](#) action.

Request Syntax

```
GET /audit/mitigationactions/tasks?  
auditTaskId=auditTaskId&endTime=endTime&findingId=findingId&maxResults=maxResults&nextToken=nextToken  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[auditTaskId](#)

Specify this filter to limit results to tasks that were applied to results for a specific audit.

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: [a-zA-Z0-9\ -]+

[endTime](#)

Specify this filter to limit results to tasks that were completed or canceled on or before a specific date and time.

Required: Yes

[findingId](#)

Specify this filter to limit results to tasks that were applied to a specific audit finding.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_ -]+

[maxResults](#)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

The token for the next set of results.

startTime

Specify this filter to limit results to tasks that began on or after a specific date and time.

Required: Yes

taskStatus

Specify this filter to limit results to tasks that are in a specific state.

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "tasks": [
    {
      "startTime": number,
      "taskId": "string",
      "taskStatus": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next set of results.

Type: String

tasks

The collection of audit mitigation tasks that matched the filter criteria.

Type: Array of [AuditMitigationActionsTaskMetadata](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListAuditSuppressions

Service: AWS IoT

Lists your Device Defender audit listings.

Requires permission to access the [ListAuditSuppressions](#) action.

Request Syntax

```
POST /audit/suppressions/list HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "ascendingOrder": boolean,
  "checkName": "string",
  "maxResults": number,
  "nextToken": "string",
  "resourceIdentifier": {
    "account": "string",
    "caCertificateId": "string",
    "clientId": "string",
    "cognitoIdentityPoolId": "string",
    "deviceCertificateArn": "string",
    "deviceCertificateId": "string",
    "iamRoleArn": "string",
    "issuerCertificateIdentifier": {
      "issuerCertificateSerialNumber": "string",
      "issuerCertificateSubject": "string",
      "issuerId": "string"
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

ascendingOrder

Determines whether suppressions are listed in ascending order by expiration date or not. If parameter isn't provided, `ascendingOrder=true`.

Type: Boolean

Required: No

checkName

An audit check name. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: String

Required: No

maxResults

The maximum number of results to return at one time. The default is 25.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 250.

Required: No

nextToken

The token for the next set of results.

Type: String

Required: No

resourceIdentifier

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "suppressions": [
    {
      "checkName": "string",
      "description": "string",
      "expirationDate": number,
      "resourceIdentifier": {
        "account": "string",
        "caCertificateId": "string",
        "clientId": "string",
        "cognitoIdentityPoolId": "string",
        "deviceCertificateArn": "string",
        "deviceCertificateId": "string",
        "iamRoleArn": "string",
        "issuerCertificateIdentifier": {
          "issuerCertificateSerialNumber": "string",
          "issuerCertificateSubject": "string",
          "issuerId": "string"
        },
        "policyVersionIdentifier": {
          "policyName": "string",
          "policyVersionId": "string"
        },
        "roleAliasArn": "string"
      },
      "suppressIndefinitely": boolean
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token that can be used to retrieve the next set of results, or `null` if there are no additional results.

Type: String

suppressions

List of audit suppressions.

Type: Array of [AuditSuppression](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListAuditTasks

Service: AWS IoT

Lists the Device Defender audits that have been performed during a given time period.

Requires permission to access the [ListAuditTasks](#) action.

Request Syntax

```
GET /audit/tasks?
endTime=endTime&maxResults=maxResults&nextToken=nextToken&startTime=startTime&taskStatus=taskSt
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[endTime](#)

The end of the time period.

Required: Yes

[maxResults](#)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

The token for the next set of results.

[startTime](#)

The beginning of the time period. Audit information is retained for a limited time (90 days).

Requesting a start time prior to what is retained results in an "InvalidRequestException".

Required: Yes

[taskStatus](#)

A filter to limit the output to audits with the specified completion status: can be one of "IN_PROGRESS", "COMPLETED", "FAILED", or "CANCELED".

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED

taskType

A filter to limit the output to the specified type of audit: can be one of "ON_DEMAND_AUDIT_TASK" or "SCHEDULED__AUDIT_TASK".

Valid Values: ON_DEMAND_AUDIT_TASK | SCHEDULED_AUDIT_TASK

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "tasks": [
    {
      "taskId": "string",
      "taskStatus": "string",
      "taskType": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

tasks

The audits that were performed during the specified time period.

Type: Array of [AuditTaskMetadata](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListAuthorizers

Service: AWS IoT

Lists the authorizers registered in your account.

Requires permission to access the [ListAuthorizers](#) action.

Request Syntax

```
GET /authorizers/?  
isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder](#)

Return the list of authorizers in ascending alphabetical order.

[marker](#)

A marker used to get the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/-]{0,2}

[pageSize](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[status](#)

The status of the list authorizers request.

Valid Values: ACTIVE | INACTIVE

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "authorizers": [
    {
      "authorizerArn": "string",
      "authorizerName": "string"
    }
  ],
  "nextMarker": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

authorizers

The authorizers.

Type: Array of [AuthorizerSummary](#) objects

nextMarker

A marker used to get the next set of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]{0,2}

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListBillingGroups

Service: AWS IoT

Lists the billing groups you have created.

Requires permission to access the [ListBillingGroups](#) action.

Request Syntax

```
GET /billing-groups?  
maxResults=maxResults&namePrefixFilter=namePrefixFilter&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return per request.

Valid Range: Minimum value of 1. Maximum value of 250.

[namePrefixFilter](#)

Limit the results to billing groups whose names have the given prefix.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "billingGroups": [
    {
      "groupArn": "string",
      "groupName": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

billingGroups

The list of billing groups.

Type: Array of [GroupNameAndArn](#) objects

nextToken

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListCACertificates

Service: AWS IoT

Lists the CA certificates registered for your AWS account.

The results are paginated with a default page size of 25. You can use the returned marker to retrieve additional results.

Requires permission to access the [ListCACertificates](#) action.

Request Syntax

```
GET /cacertificates?  
isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize&templateName=templateName  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder](#)

Determines the order of the results.

[marker](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: `[A-Za-z0-9+/-]{0,2}`

[pageSize](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

[templateName](#)

The name of the provisioning template.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificates": [
    {
      "certificateArn": "string",
      "certificateId": "string",
      "creationDate": number,
      "status": "string"
    }
  ],
  "nextMarker": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

certificates

The CA certificates registered in your AWS account.

Type: Array of [CACertificate](#) objects

nextMarker

The current position within the list of CA certificates.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/\]{0,2}

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListCertificateProviders

Service: AWS IoT

Lists all your certificate providers in your AWS account.

Requires permission to access the [ListCertificateProviders](#) action.

Request Syntax

```
GET /certificate-providers/?isAscendingOrder=ascendingOrder&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder](#)

Returns the list of certificate providers in ascending alphabetical order.

[nextToken](#)

The token for the next set of results, or null if there are no more results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/-]{0,2}

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificateProviders": [
    {
      "certificateProviderArn": "string",
```

```
    "certificateProviderName": "string"
  },
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

certificateProviders

The list of certificate providers in your AWS account.

Type: Array of [CertificateProviderSummary](#) objects

nextToken

The token for the next set of results, or `null` if there are no more results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `[A-Za-z0-9+/-]{0,2}`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListCertificates

Service: AWS IoT

Lists the certificates registered in your AWS account.

The results are paginated with a default page size of 25. You can use the returned marker to retrieve additional results.

Requires permission to access the [ListCertificates](#) action.

Request Syntax

```
GET /certificates?isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder](#)

Specifies the order for results. If True, the results are returned in ascending order, based on the creation date.

[marker](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: `[A-Za-z0-9+/-]{0,2}`

[pageSize](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificates": [
    {
      "certificateArn": "string",
      "certificateId": "string",
      "certificateMode": "string",
      "creationDate": number,
      "status": "string"
    }
  ],
  "nextMarker": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[certificates](#)

The descriptions of the certificates.

Type: Array of [Certificate](#) objects

[nextMarker](#)

The marker for the next set of results, or null if there are no additional results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `[A-Za-z0-9+/-]{0,2}`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListCertificatesByCA

Service: AWS IoT

List the device certificates signed by the specified CA certificate.

Requires permission to access the [ListCertificatesByCA](#) action.

Request Syntax

```
GET /certificates-by-ca/caCertificateId?  
isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder](#)

Specifies the order for results. If True, the results are returned in ascending order, based on the creation date.

[caCertificateId](#)

The ID of the CA certificate. This operation will list all registered device certificate that were signed by this CA certificate.

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

[marker](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/\]+= {0,2}

[pageSize](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificates": [
    {
      "certificateArn": "string",
      "certificateId": "string",
      "certificateMode": "string",
      "creationDate": number,
      "status": "string"
    }
  ],
  "nextMarker": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

certificates

The device certificates signed by the specified CA certificate.

Type: Array of [Certificate](#) objects

nextMarker

The marker for the next set of results, or null if there are no additional results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/\]{0,2}

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListCommandExecutions

Service: AWS IoT

List all command executions.

Important

- You must provide only the `startedTimeFilter` or the `completedTimeFilter` information. If you provide both time filters, the API will generate an error. You can use this information to retrieve a list of command executions within a specific timeframe.
- You must provide only the `commandArn` or the `thingArn` information depending on whether you want to list executions for a specific command or an IoT thing. If you provide both fields, the API will generate an error.

For more information about considerations for using this API, see [List command executions in your account \(CLI\)](#).

Request Syntax

```
POST /command-executions?maxResults=maxResults&nextToken=nextToken HTTP/1.1
Content-type: application/json
```

```
{
  "commandArn": "string",
  "completedTimeFilter": {
    "after": "string",
    "before": "string"
  },
  "namespace": "string",
  "sortOrder": "string",
  "startedTimeFilter": {
    "after": "string",
    "before": "string"
  },
  "status": "string",
  "targetArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 1. Maximum value of 100.

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise `null` to receive the first set of results.

Request Body

The request accepts the following data in JSON format.

[commandArn](#)

The Amazon Resource Number (ARN) of the command. You can use this information to list all command executions for a particular command.

Type: String

Required: No

[completedTimeFilter](#)

List all command executions that completed any time before or after the date and time that you specify. The date and time uses the format `yyyy-MM-dd 'T' HH:mm`.

Type: [TimeFilter](#) object

Required: No

[namespace](#)

The namespace of the command.

Type: String

Valid Values: AWS-IoT | AWS-IoT-FleetWise

Required: No

sortOrder

Specify whether to list the command executions that were created in the ascending or descending order. By default, the API returns all commands in the descending order based on the start time or completion time of the executions, that are determined by the `startTimeFilter` and `completeTimeFilter` parameters.

Type: String

Valid Values: ASCENDING | DESCENDING

Required: No

startedTimeFilter

List all command executions that started any time before or after the date and time that you specify. The date and time uses the format `yyyy-MM-dd 'T' HH:mm`.

Type: [TimeFilter](#) object

Required: No

status

List all command executions for the device that have a particular status. For example, you can filter the list to display only command executions that have failed or timed out.

Type: String

Valid Values: CREATED | IN_PROGRESS | SUCCEEDED | FAILED | REJECTED | TIMED_OUT

Required: No

targetArn

The Amazon Resource Number (ARN) of the target device. You can use this information to list all command executions for a particular device.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "commandExecutions": [
    {
      "commandArn": "string",
      "completedAt": number,
      "createdAt": number,
      "executionId": "string",
      "startedAt": number,
      "status": "string",
      "targetArn": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

commandExecutions

The list of command executions.

Type: Array of [CommandExecutionSummary](#) objects

nextToken

The token to use to get the next set of results, or null if there are no additional results.

Type: String

Errors

InternalServerErrorException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListCommands

Service: AWS IoT

List all commands in your account.

Request Syntax

```
GET /commands?  
commandParameterName=commandParameterName&maxResults=maxResults&namespace=namespace&nextToken=nextToken  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

commandParameterName

A filter that can be used to display the list of commands that have a specific command parameter name.

Length Constraints: Minimum length of 1. Maximum length of 192.

Pattern: `^[. $a-zA-Z0-9_-]+$`

maxResults

The maximum number of results to return in this operation. By default, the API returns up to a maximum of 25 results. You can override this default value to return up to a maximum of 100 results for this operation.

Valid Range: Minimum value of 1. Maximum value of 100.

namespace

The namespace of the command. By default, the API returns all commands that have been created for both AWS-IoT and AWS-IoT-FleetWise namespaces. You can override this default value if you want to return all commands that have been created only for a specific namespace.

Valid Values: AWS-IoT | AWS-IoT-FleetWise

nextToken

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise `null` to receive the first set of results.

[sortOrder](#)

Specify whether to list the commands that you have created in the ascending or descending order. By default, the API returns all commands in the descending order based on the time that they were created.

Valid Values: ASCENDING | DESCENDING

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "commands": [
    {
      "commandArn": "string",
      "commandId": "string",
      "createdAt": number,
      "deprecated": boolean,
      "displayName": "string",
      "lastUpdatedAt": number,
      "pendingDeletion": boolean
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[commands](#)

The list of commands.

Type: Array of [CommandSummary](#) objects

[nextToken](#)

The token to use to get the next set of results, or null if there are no additional results.

Type: String

Errors

InternalServerError

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListCustomMetrics

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Lists your Device Defender detect custom metrics.

Requires permission to access the [ListCustomMetrics](#) action.

Request Syntax

```
GET /custom-metrics?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "metricNames": [ "string" ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

metricNames

The name of the custom metric.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

nextToken

A token that can be used to retrieve the next set of results, or `null` if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListDetectMitigationActionsExecutions

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Lists mitigation actions executions for a Device Defender ML Detect Security Profile.

Requires permission to access the [ListDetectMitigationActionsExecutions](#) action.

Request Syntax

```
GET /detect/mitigationactions/executions?
endTime=endTime&maxResults=maxResults&nextToken=nextToken&startTime=startTime&taskId=taskId&thi
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

endTime

The end of the time period for which ML Detect mitigation actions executions are returned.

maxResults

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

The token for the next set of results.

startTime

A filter to limit results to those found after the specified time. You must specify either the startTime and endTime or the taskId, but not both.

taskId

The unique identifier of the task.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

thingName

The name of the thing whose mitigation actions are listed.

Length Constraints: Minimum length of 1. Maximum length of 128.

violationId

The unique identifier of the violation.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\ -]+

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "actionsExecutions": [
    {
      "actionName": "string",
      "errorCode": "string",
      "executionEndDate": number,
      "executionStartDate": number,
```



```
    "message": "string",
    "status": "string",
    "taskId": "string",
    "thingName": "string",
    "violationId": "string"
  }
],
"nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

actionsExecutions

List of actions executions.

Type: Array of [DetectMitigationActionExecution](#) objects

nextToken

A token that can be used to retrieve the next set of results, or `null` if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListDetectMitigationActionsTasks

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

List of Device Defender ML Detect mitigation actions tasks.

Requires permission to access the [ListDetectMitigationActionsTasks](#) action.

Request Syntax

```
GET /detect/mitigationactions/tasks?  
endTime=endTime&maxResults=maxResults&nextToken=nextToken&startTime=startTime HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

endTime

The end of the time period for which ML Detect mitigation actions tasks are returned.

Required: Yes

maxResults

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

The token for the next set of results.

startTime

A filter to limit results to those found after the specified time. You must specify either the `startTime` and `endTime` or the `taskId`, but not both.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "tasks": [
    {
      "actionsDefinition": [
        {
          "actionParams": {
            "addThingsToThingGroupParams": {
              "overrideDynamicGroups": boolean,
              "thingGroupNames": [ "string" ]
            },
            "enableIoTLoggingParams": {
              "logLevel": "string",
              "roleArnForLogging": "string"
            },
            "publishFindingToSnsParams": {
              "topicArn": "string"
            },
            "replaceDefaultPolicyVersionParams": {
              "templateName": "string"
            },
            "updateCACertificateParams": {
              "action": "string"
            },
            "updateDeviceCertificateParams": {
              "action": "string"
            }
          }
        }
      ]
    }
  ]
}
```

```

        }
      },
      "id": "string",
      "name": "string",
      "roleArn": "string"
    }
  ],
  "onlyActiveViolationsIncluded": boolean,
  "suppressedAlertsIncluded": boolean,
  "target": {
    "behaviorName": "string",
    "securityProfileName": "string",
    "violationIds": [ "string" ]
  },
  "taskEndTime": number,
  "taskId": "string",
  "taskStartTime": number,
  "taskStatistics": {
    "actionsExecuted": number,
    "actionsFailed": number,
    "actionsSkipped": number
  },
  "taskStatus": "string",
  "violationEventOccurrenceRange": {
    "endTime": number,
    "startTime": number
  }
}
]
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

tasks

The collection of ML Detect mitigation tasks that matched the filter criteria.

Type: Array of [DetectMitigationActionsTaskSummary](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListDimensions

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

List the set of dimensions that are defined for your AWS accounts.

Requires permission to access the [ListDimensions](#) action.

Request Syntax

```
GET /dimensions?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to retrieve at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```



```
Content-type: application/json

{
  "dimensionNames": [ "string" ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

dimensionNames

A list of the names of the defined dimensions. Use `DescribeDimension` to get details for a dimension.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

nextToken

A token that can be used to retrieve the next set of results, or `null` if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListDomainConfigurations

Service: AWS IoT

Gets a list of domain configurations for the user. This list is sorted alphabetically by domain configuration name.

Requires permission to access the [ListDomainConfigurations](#) action.

Request Syntax

```
GET /domainConfigurations?marker=marker&pageSize=pageSize&serviceType=serviceType
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[marker](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+ /]+= {0,2}

[pageSize](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

[serviceType](#)

The type of service delivered by the endpoint.

Valid Values: DATA | CREDENTIAL_PROVIDER | JOBS

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "domainConfigurations": [
    {
      "domainConfigurationArn": "string",
      "domainConfigurationName": "string",
      "serviceType": "string"
    }
  ],
  "nextMarker": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[domainConfigurations](#)

A list of objects that contain summary information about the user's domain configurations.

Type: Array of [DomainConfigurationSummary](#) objects

[nextMarker](#)

The marker for the next set of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+ /]+= {0,2}

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListFleetMetrics

Service: AWS IoT

Lists all your fleet metrics.

Requires permission to access the [ListFleetMetrics](#) action.

Request Syntax

```
GET /fleet-metrics?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise `null` to receive the first set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "fleetMetrics": [
    {
      "metricArn": "string",
      "metricName": "string"
    }
  ]
}
```

```
  ],  
  "nextToken": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

fleetMetrics

The list of fleet metrics objects.

Type: Array of [FleetMetricNameAndArn](#) objects

nextToken

The token for the next set of results. Will not be returned if the operation has returned all results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListIndices

Service: AWS IoT

Lists the search indices.

Requires permission to access the [ListIndices](#) action.

Request Syntax

```
GET /indices?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 500.

[nextToken](#)

The token used to get the next set of results, or `null` if there are no additional results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "indexNames": [ "string" ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

indexNames

The index names.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

nextToken

The token used to get the next set of results, or null if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListJobExecutionsForJob

Service: AWS IoT

Lists the job executions for a job.

Requires permission to access the [ListJobExecutionsForJob](#) action.

Request Syntax

```
GET /jobs/jobId/things?maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

jobId

The unique identifier you assigned to this job when it was created.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

maxResults

The maximum number of results to be returned per request.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

The token to retrieve the next set of results.

status

The status of the job.

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT |
REJECTED | REMOVED | CANCELED

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "executionSummaries": [
    {
      "jobExecutionSummary": {
        "executionNumber": number,
        "lastUpdatedAt": number,
        "queuedAt": number,
        "retryAttempt": number,
        "startedAt": number,
        "status": "string"
      },
      "thingArn": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

executionSummaries

A list of job execution summaries.

Type: Array of [JobExecutionSummaryForJob](#) objects

nextToken

The token for the next set of results, or **null** if there are no additional results.

Type: String

Errors

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListJobExecutionsForThing

Service: AWS IoT

Lists the job executions for the specified thing.

Requires permission to access the [ListJobExecutionsForThing](#) action.

Request Syntax

```
GET /things/thingName/jobs?  
jobId=jobId&maxResults=maxResults&namespaceId=namespaceId&nextToken=nextToken&status=status  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

jobId

The unique identifier you assigned to this job when it was created.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

maxResults

The maximum number of results to be returned per request.

Valid Range: Minimum value of 1. Maximum value of 250.

namespaceId

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

\$aws/things/*THING_NAME*/jobs/*JOB_ID*/notify-namespace-*NAMESPACE_ID*/

Note

The namespaceId feature is only supported by AWS IoT Greengrass at this time. For more information, see [Setting up AWS IoT Greengrass core devices](#).

Pattern: [a-zA-Z0-9_-]+

nextToken

The token to retrieve the next set of results.

status

An optional filter that lets you search for jobs that have the specified status.

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT | REJECTED | REMOVED | CANCELED

thingName

The thing name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "executionSummaries": [
    {
      "jobExecutionSummary": {
        "executionNumber": number,
        "lastUpdatedAt": number,
        "queuedAt": number,
        "retryAttempt": number,
        "startedAt": number,
        "status": "string"
      },
      "jobId": "string"
    }
  ]
}
```

```
    }  
  ],  
  "nextToken": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[executionSummaries](#)

A list of job execution summaries.

Type: Array of [JobExecutionSummaryForThing](#) objects

[nextToken](#)

The token for the next set of results, or **null** if there are no additional results.

Type: String

Errors

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListJobs

Service: AWS IoT

Lists jobs.

Requires permission to access the [ListJobs](#) action.

Request Syntax

```
GET /jobs?  
maxResults=maxResults&namespaceId=namespaceId&nextToken=nextToken&status=status&targetSelection=targetSelection  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return per request.

Valid Range: Minimum value of 1. Maximum value of 250.

[namespaceId](#)

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

`$aws/things/THING_NAME/jobs/JOB_ID/notify-namespace-NAMESPACE_ID/`

Note

The namespaceId feature is only supported by AWS IoT Greengrass at this time. For more information, see [Setting up AWS IoT Greengrass core devices](#).

Pattern: `[a-zA-Z0-9_-]+`

[nextToken](#)

The token to retrieve the next set of results.

status

An optional filter that lets you search for jobs that have the specified status.

Valid Values: IN_PROGRESS | CANCELED | COMPLETED | DELETION_IN_PROGRESS | SCHEDULED

targetSelection

Specifies whether the job will continue to run (CONTINUOUS), or will be complete after all those things specified as targets have completed the job (SNAPSHOT). If continuous, the job may also be run on a thing when a change is detected in a target. For example, a job will run on a thing when the thing is added to a target group, even after the job was completed by all things originally in the group.

Note

We recommend that you use continuous jobs instead of snapshot jobs for dynamic thing group targets. By using continuous jobs, devices that join the group receive the job execution even after the job has been created.

Valid Values: CONTINUOUS | SNAPSHOT

thingGroupId

A filter that limits the returned jobs to those for the specified group.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\ -]+

thingGroupName

A filter that limits the returned jobs to those for the specified group.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_ -]+

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "jobs": [
    {
      "completedAt": number,
      "createdAt": number,
      "isConcurrent": boolean,
      "jobArn": "string",
      "jobId": "string",
      "lastUpdatedAt": number,
      "status": "string",
      "targetSelection": "string",
      "thingGroupId": "string"
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

jobs

A list of jobs.

Type: Array of [JobSummary](#) objects

nextToken

The token for the next set of results, or **null** if there are no additional results.

Type: String

Errors

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListJobTemplates

Service: AWS IoT

Returns a list of job templates.

Requires permission to access the [ListJobTemplates](#) action.

Request Syntax

```
GET /job-templates?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return in the list.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

The token to use to return the next set of results in the list.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "jobTemplates": [
    {
      "createdAt": number,
      "description": "string",
      "jobTemplateArn": "string",
      "jobTemplateId": "string"
    }
  ]
}
```

```
    }  
  ],  
  "nextToken": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[jobTemplates](#)

A list of objects that contain information about the job templates.

Type: Array of [JobTemplateSummary](#) objects

[nextToken](#)

The token for the next set of results, or **null** if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListManagedJobTemplates

Service: AWS IoT

Returns a list of managed job templates.

Request Syntax

```
GET /managed-job-templates?
maxResults=maxResults&nextToken=nextToken&templateName=templateName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

Maximum number of entries that can be returned.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

The token to retrieve the next set of results.

templateName

An optional parameter for template name. If specified, only the versions of the managed job templates that have the specified template name will be returned.

Length Constraints: Minimum length of 1. Maximum length of 64.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "managedJobTemplates": [
```

```
{
  "description": "string",
  "environments": [ "string" ],
  "templateArn": "string",
  "templateName": "string",
  "templateVersion": "string"
},
"nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

managedJobTemplates

A list of managed job templates that are returned.

Type: Array of [ManagedJobTemplateSummary](#) objects

nextToken

The token to retrieve the next set of results.

Type: String

Errors

InternalServerError

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListMetricValues

Service: AWS IoT

Lists the values reported for an AWS IoT Device Defender metric (device-side metric, cloud-side metric, or custom metric) by the given thing during the specified time period.

Request Syntax

```
GET /metric-values?
dimensionName=dimensionName&dimensionValueOperator=dimensionValueOperator&endTime=endTime&maxResults=
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

dimensionName

The dimension name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

dimensionValueOperator

The dimension value operator.

Valid Values: IN | NOT_IN

endTime

The end of the time period for which metric values are returned.

Required: Yes

maxResults

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

metricName

The name of the security profile metric for which values are returned.

Required: Yes

[nextToken](#)

The token for the next set of results.

[startTime](#)

The start of the time period for which metric values are returned.

Required: Yes

[thingName](#)

The name of the thing for which security profile metric values are returned.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "metricDatumList": [
    {
      "timestamp": number,
      "value": {
        "cidrs": [ "string" ],
        "count": number,
        "number": number,
        "numbers": [ number ],
        "ports": [ number ],
        "strings": [ "string" ]
      }
    }
  ],
  "nextToken": "string"
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[metricDatumList](#)

The data the thing reports for the metric during the specified time period.

Type: Array of [MetricDatum](#) objects

[nextToken](#)

A token that can be used to retrieve the next set of results, or `null` if there are no additional results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListMitigationActions

Service: AWS IoT

Gets a list of all mitigation actions that match the specified filter criteria.

Requires permission to access the [ListMitigationActions](#) action.

Request Syntax

```
GET /mitigationactions/actions?  
actionType=actionType&maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[actionType](#)

Specify a value to limit the result to mitigation actions with a specific action type.

Valid Values: UPDATE_DEVICE_CERTIFICATE | UPDATE_CA_CERTIFICATE |
ADD_THINGS_TO_THING_GROUP | REPLACE_DEFAULT_POLICY_VERSION |
ENABLE_IOT_LOGGING | PUBLISH_FINDING_TO_SNS

[maxResults](#)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "actionIdentifiers": [
    {
      "actionArn": "string",
      "actionName": "string",
      "creationDate": number
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[actionIdentifiers](#)

A set of actions that matched the specified filter criteria.

Type: Array of [MitigationActionIdentifier](#) objects

[nextToken](#)

The token for the next set of results.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListOTAUpdates

Service: AWS IoT

Lists OTA updates.

Requires permission to access the [ListOTAUpdates](#) action.

Request Syntax

```
GET /otaUpdates?  
maxResults=maxResults&nextToken=nextToken&otaUpdateStatus=otaUpdateStatus HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

A token used to retrieve the next set of results.

[otaUpdateStatus](#)

The OTA update job status.

Valid Values: CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_COMPLETE |
CREATE_FAILED | DELETE_IN_PROGRESS | DELETE_FAILED

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```



```
{
  "nextToken": "string",
  "otaUpdates": [
    {
      "creationDate": number,
      "otaUpdateArn": "string",
      "otaUpdateId": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token to use to get the next set of results.

Type: String

otaUpdates

A list of OTA update jobs.

Type: Array of [OTAUpdateSummary](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListOutgoingCertificates

Service: AWS IoT

Lists certificates that are being transferred but not yet accepted.

Requires permission to access the [ListOutgoingCertificates](#) action.

Request Syntax

```
GET /certificates-out-going?  
isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder](#)

Specifies the order for results. If True, the results are returned in ascending order, based on the creation date.

[marker](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: `[A-Za-z0-9+ /]+={0,2}`

[pageSize](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "nextMarker": "string",
  "outgoingCertificates": [
    {
      "certificateArn": "string",
      "certificateId": "string",
      "creationDate": number,
      "transferDate": number,
      "transferMessage": "string",
      "transferredTo": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextMarker](#)

The marker for the next set of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+ /]+= {0,2}

[outgoingCertificates](#)

The certificates that are being transferred but not yet accepted.

Type: Array of [OutgoingCertificate](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListPackages

Service: AWS IoT

Lists the software packages associated to the account.

Requires permission to access the [ListPackages](#) action.

Request Syntax

```
GET /packages?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results returned at one time.

Valid Range: Minimum value of 1. Maximum value of 100.

[nextToken](#)

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "packageSummaries": [
    {
      "creationDate": number,
      "defaultVersionName": "string",
      "lastModifiedDate": number,
```



```
    "packageName": "string"  
  }  
]  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next set of results.

Type: String

packageSummaries

The software package summary.

Type: Array of [PackageSummary](#) objects

Errors

InternalServerError

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListPackageVersions

Service: AWS IoT

Lists the software package versions associated to the account.

Requires permission to access the [ListPackageVersions](#) action.

Request Syntax

```
GET /packages/packageName/versions?  
maxResults=maxResults&nextToken=nextToken&status=status HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 100.

[nextToken](#)

The token for the next set of results.

[packageName](#)

The name of the target software package.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9-_.]+

Required: Yes

[status](#)

The status of the package version. For more information, see [Package version lifecycle](#).

Valid Values: DRAFT | PUBLISHED | DEPRECATED

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "packageVersionSummaries": [
    {
      "creationDate": number,
      "lastModifiedDate": number,
      "packageName": "string",
      "status": "string",
      "versionName": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken](#)

The token for the next set of results.

Type: String

[packageVersionSummaries](#)

Lists the package versions associated to the package.

Type: Array of [PackageVersionSummary](#) objects

Errors

InternalServerError

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListPolicies

Service: AWS IoT

Lists your policies.

Requires permission to access the [ListPolicies](#) action.

Request Syntax

```
GET /policies?isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder](#)

Specifies the order for results. If true, the results are returned in ascending creation order.

[marker](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/-]{0,2}

[pageSize](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "nextMarker": "string",
  "policies": [
    {
      "policyArn": "string",
      "policyName": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextMarker](#)

The marker for the next set of results, or null if there are no additional results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+ /]+= {0,2}

[policies](#)

The descriptions of the policies.

Type: Array of [Policy](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListPolicyPrincipals

Service: AWS IoT

Lists the principals associated with the specified policy.

Note: This action is deprecated and works as expected for backward compatibility, but we won't add enhancements. Use [ListTargetsForPolicy](#) instead.

Requires permission to access the [ListPolicyPrincipals](#) action.

Request Syntax

```
GET /policy-principals?isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize
HTTP/1.1
x-amzn-iot-policy: policyName
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder](#)

Specifies the order for results. If true, the results are returned in ascending creation order.

[marker](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: `[A-Za-z0-9+ / ]+= {0,2}`

[pageSize](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

[policyName](#)

The policy name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\\w+=, .@- ]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextMarker": "string",
  "principals": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextMarker](#)

The marker for the next set of results, or null if there are no additional results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+ /]+= {0,2}

[principals](#)

The descriptions of the principals.

Type: Array of strings

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListPolicyVersions

Service: AWS IoT

Lists the versions of the specified policy and identifies the default version.

Requires permission to access the [ListPolicyVersions](#) action.

Request Syntax

```
GET /policies/policyName/version HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[policyName](#)

The policy name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "policyVersions": [
    {
      "createDate": number,
      "isDefaultVersion": boolean,
      "versionId": "string"
    }
  ]
}
```

```
]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

policyVersions

The policy versions.

Type: Array of [PolicyVersion](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListPrincipalPolicies

Service: AWS IoT

Lists the policies attached to the specified principal. If you use an Cognito identity, the ID must be in [AmazonCognito Identity format](#).

Note: This action is deprecated and works as expected for backward compatibility, but we won't add enhancements. Use [ListAttachedPolicies](#) instead.

Requires permission to access the [ListPrincipalPolicies](#) action.

Request Syntax

```
GET /principal-policies?isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize
HTTP/1.1
x-amzn-iot-principal: principal
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder](#)

Specifies the order for results. If true, results are returned in ascending creation order.

[marker](#)

The marker for the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/-]{0,2}

[pageSize](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 250.

[principal](#)

The principal. Valid principals are CertificateArn (arn:aws:iot:region:accountId:cert/certificateId), thingGroupArn (arn:aws:iot:region:accountId:thinggroup/groupName) and CognitoId (region:id).

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextMarker": "string",
  "policies": [
    {
      "policyArn": "string",
      "policyName": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextMarker](#)

The marker for the next set of results, or null if there are no additional results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/-]{0,2}

[policies](#)

The policies.

Type: Array of [Policy](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListPrincipalThings

Service: AWS IoT

Lists the things associated with the specified principal. A principal can be X.509 certificates, IAM users, groups, and roles, Amazon Cognito identities or federated identities.

Requires permission to access the [ListPrincipalThings](#) action.

Request Syntax

```
GET /principals/things?maxResults=maxResults&nextToken=nextToken HTTP/1.1
x-amzn-principal: principal
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

[principal](#)

The principal.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{  
  "nextToken": "string",  
  "things": [ "string" ]  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

things

The things.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListPrincipalThingsV2

Service: AWS IoT

Lists the things associated with the specified principal. A principal can be an X.509 certificate or an Amazon Cognito ID.

Requires permission to access the [ListPrincipalThings](#) action.

Request Syntax

```
GET /principals/things-v2?
maxResults=maxResults&nextToken=nextToken&thingPrincipalType=thingPrincipalType
HTTP/1.1
x-amzn-principal: principal
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

[principal](#)

The principal. A principal can be an X.509 certificate or an Amazon Cognito ID.

Required: Yes

[thingPrincipalType](#)

The type of the relation you want to filter in the response. If no value is provided in this field, the response will list all things, including both the `EXCLUSIVE_THING` and `NON_EXCLUSIVE_THING` attachment types.

- `EXCLUSIVE_THING` - Attaches the specified principal to the specified thing, exclusively. The thing will be the only thing that's attached to the principal.

- `NON_EXCLUSIVE_THING` - Attaches the specified principal to the specified thing. Multiple things can be attached to the principal.

Valid Values: `EXCLUSIVE_THING` | `NON_EXCLUSIVE_THING`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "principalThingObjects": [
    {
      "thingName": "string",
      "thingPrincipalType": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

principalThingObjects

A list of `thingPrincipalObject` that represents the principal and the type of relation it has with the thing.

Type: Array of [PrincipalThingObject](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListProvisioningTemplates

Service: AWS IoT

Lists the provisioning templates in your AWS account.

Requires permission to access the [ListProvisioningTemplates](#) action.

Request Syntax

```
GET /provisioning-templates?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

A token to retrieve the next set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "templates": [
    {
      "creationDate": number,
      "description": "string",
      "enabled": boolean,
```

```
    "lastModifiedDate": number,  
    "templateArn": "string",  
    "templateName": "string",  
    "type": "string"  
  }  
]  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token to retrieve the next set of results.

Type: String

templates

A list of provisioning templates

Type: Array of [ProvisioningTemplateSummary](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListProvisioningTemplateVersions

Service: AWS IoT

A list of provisioning template versions.

Requires permission to access the [ListProvisioningTemplateVersions](#) action.

Request Syntax

```
GET /provisioning-templates/templateName/versions?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

A token to retrieve the next set of results.

templateName

The name of the provisioning template.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "nextToken": "string",
  "versions": [
    {
      "creationDate": number,
      "isDefaultVersion": boolean,
      "versionId": number
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token to retrieve the next set of results.

Type: String

versions

The list of provisioning template versions.

Type: Array of [ProvisioningTemplateVersionSummary](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListRelatedResourcesForAuditFinding

Service: AWS IoT

The related resources of an Audit finding. The following resources can be returned from calling this API:

- DEVICE_CERTIFICATE
- CA_CERTIFICATE
- IOT_POLICY
- COGNITO_IDENTITY_POOL
- CLIENT_ID
- ACCOUNT_SETTINGS
- ROLE_ALIAS
- IAM_ROLE
- ISSUER_CERTIFICATE

Note

This API is similar to DescribeAuditFinding's [RelatedResources](#) but provides pagination and is not limited to 10 resources. When calling [DescribeAuditFinding](#) for the intermediate CA revoked for active device certificates check, RelatedResources will not be populated. You must use this API, ListRelatedResourcesForAuditFinding, to list the certificates.

Request Syntax

```
GET /audit/relatedResources?  
findingId=findingId&maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

findingId

The finding Id.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

maxResults

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

A token that can be used to retrieve the next set of results, or `null` if there are no additional results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "relatedResources": [
    {
      "additionalInfo": {
        "string" : "string"
      },
      "resourceIdentifier": {
        "account": "string",
        "caCertificateId": "string",
        "clientId": "string",
        "cognitoIdentityPoolId": "string",
        "deviceCertificateArn": "string",
        "deviceCertificateId": "string",
        "iamRoleArn": "string",
        "issuerCertificateIdentifier": {
          "issuerCertificateSerialNumber": "string",
```

```
        "issuerCertificateSubject": "string",
        "issuerId": "string"
    },
    "policyVersionIdentifier": {
        "policyName": "string",
        "policyVersionId": "string"
    },
    "roleAliasArn": "string"
},
"resourceType": "string"
}
]
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token that can be used to retrieve the next set of results, or `null` for the first API call.

Type: String

relatedResources

The related resources.

Type: Array of [RelatedResource](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListRoleAliases

Service: AWS IoT

Lists the role aliases registered in your account.

Requires permission to access the [ListRoleAliases](#) action.

Request Syntax

```
GET /role-aliases?isAscendingOrder=ascendingOrder&marker=marker&pageSize=pageSize  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder](#)

Return the list of role aliases in ascending alphabetical order.

[marker](#)

A marker used to get the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/-]{0,2}

[pageSize](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```

```
{
  "nextMarker": "string",
  "roleAliases": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextMarker

A marker used to get the next set of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/]+= {0,2}

roleAliases

The role aliases.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [\w=, @-]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListSbomValidationResults

Service: AWS IoT

The validation results for all software bill of materials (SBOM) attached to a specific software package version.

Requires permission to access the [ListSbomValidationResults](#) action.

Request Syntax

```
GET /packages/packageName/versions/versionName/sbom-validation-results?  
maxResults=maxResults&nextToken=nextToken&validationResult=validationResult HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 100.

[nextToken](#)

A token that can be used to retrieve the next set of results, or null if there are no additional results.

[packageName](#)

The name of the new software package.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9-_.]+

Required: Yes

[validationResult](#)

The end result of the

Valid Values: FAILED | SUCCEEDED

versionName

The name of the new package version.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-_.]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "validationResultSummaries": [
    {
      "errorCode": "string",
      "errorMessage": "string",
      "fileName": "string",
      "validationResult": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token that can be used to retrieve the next set of results, or null if there are no additional results.

Type: String

[validationResultSummaries](#)

A summary of the validation results for each software bill of materials attached to a software package version.

Type: Array of [SbomValidationResultSummary](#) objects

Errors

InternalServerError

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListScheduledAudits

Service: AWS IoT

Lists all of your scheduled audits.

Requires permission to access the [ListScheduledAudits](#) action.

Request Syntax

```
GET /audit/scheduledaudits?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at one time. The default is 25.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "scheduledAudits": [
    {
      "dayOfMonth": "string",
      "dayOfWeek": "string",
      "frequency": "string",
      "scheduledAuditArn": "string",
```

```
    "scheduledAuditName": "string"  
  }  
]  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token that can be used to retrieve the next set of results, or `null` if there are no additional results.

Type: String

scheduledAudits

The list of scheduled audits.

Type: Array of [ScheduledAuditMetadata](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListSecurityProfiles

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Lists the Device Defender security profiles you've created. You can filter security profiles by dimension or custom metric.

Requires permission to access the [ListSecurityProfiles](#) action.

Note

`dimensionName` and `metricName` cannot be used in the same request.

Request Syntax

```
GET /security-profiles?
dimensionName=dimensionName&maxResults=maxResults&metricName=metricName&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

dimensionName

A filter to limit results to the security profiles that use the defined dimension. Cannot be used with `metricName`

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

maxResults

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

metricName

The name of the custom metric. Cannot be used with `dimensionName`.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

nextToken

The token for the next set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "securityProfileIdentifiers": [
    {
      "arn": "string",
      "name": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token that can be used to retrieve the next set of results, or `null` if there are no additional results.

Type: String

securityProfileIdentifiers

A list of security profile identifiers (names and ARNs).

Type: Array of [SecurityProfileIdentifier](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListSecurityProfilesForTarget

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Lists the Device Defender security profiles attached to a target (thing group).

Requires permission to access the [ListSecurityProfilesForTarget](#) action.

Request Syntax

```
GET /security-profiles-for-target?
maxResults=maxResults&nextToken=nextToken&recursive=recursive&securityProfileTargetArn=securityProfileTargetArn
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

The token for the next set of results.

recursive

If true, return child groups too.

securityProfileTargetArn

The ARN of the target (thing group) whose attached security profiles you want to get.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "securityProfileTargetMappings": [
    {
      "securityProfileIdentifier": {
        "arn": "string",
        "name": "string"
      },
      "target": {
        "arn": "string"
      }
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token that can be used to retrieve the next set of results, or `null` if there are no additional results.

Type: String

securityProfileTargetMappings

A list of security profiles and their associated targets.

Type: Array of [SecurityProfileTargetMapping](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListStreams

Service: AWS IoT

Lists all of the streams in your AWS account.

Requires permission to access the [ListStreams](#) action.

Request Syntax

```
GET /streams?isAscendingOrder=ascendingOrder&maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[ascendingOrder](#)

Set to true to return the list of streams in ascending order.

[maxResults](#)

The maximum number of results to return at a time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

A token used to get the next set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "streams": [
    {
```

```
    "description": "string",  
    "streamArn": "string",  
    "streamId": "string",  
    "streamVersion": number  
  }  
]  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken](#)

A token used to get the next set of results.

Type: String

[streams](#)

A list of streams.

Type: Array of [StreamSummary](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Service: AWS IoT

Lists the tags (metadata) you have assigned to the resource.

Requires permission to access the [ListTagsForResource](#) action.

Request Syntax

```
GET /tags?nextToken=nextToken&resourceArn=resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

nextToken

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

resourceArn

The ARN of the resource.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "nextToken": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

```
]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken](#)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

[tags](#)

The list of tags assigned to the resource.

Type: Array of [Tag](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListTargetsForPolicy

Service: AWS IoT

List targets for the specified policy.

Requires permission to access the [ListTargetsForPolicy](#) action.

Request Syntax

```
POST /policy-targets/policyName?marker=marker&pageSize=pageSize HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[marker](#)

A marker used to get the next set of results.

Length Constraints: Maximum length of 1024.

Pattern: `[A-Za-z0-9+/]+= {0,2}`

[pageSize](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[policyName](#)

The policy name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextMarker": "string",
  "targets": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextMarker

A marker used to get the next set of results.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [A-Za-z0-9+/>]{0,2}

targets

The policy targets.

Type: Array of strings

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListTargetsForSecurityProfile

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Lists the targets (thing groups) associated with a given Device Defender security profile.

Requires permission to access the [ListTargetsForSecurityProfile](#) action.

Request Syntax

```
GET /security-profiles/securityProfileName/targets?  
maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

The token for the next set of results.

securityProfileName

The security profile.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "securityProfileTargets": [
    {
      "arn": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token that can be used to retrieve the next set of results, or `null` if there are no additional results.

Type: String

securityProfileTargets

The thing groups to which the security profile is attached.

Type: Array of [SecurityProfileTarget](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListThingGroups

Service: AWS IoT

List the thing groups in your account.

Requires permission to access the [ListThingGroups](#) action.

Request Syntax

```
GET /thing-groups?  
maxResults=maxResults&namePrefixFilter=namePrefixFilter&nextToken=nextToken&parentGroup=parentG  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[namePrefixFilter](#)

A filter that limits the results to those with the specified name prefix.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

[parentGroup](#)

A filter that limits the results to those with the specified parent group.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

[recursive](#)

If true, return child groups as well.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "thingGroups": [
    {
      "groupArn": "string",
      "groupName": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken](#)

The token to use to get the next set of results. Will not be returned if operation has returned all results.

Type: String

[thingGroups](#)

The thing groups.

Type: Array of [GroupNameAndArn](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListThingGroupsForThing

Service: AWS IoT

List the thing groups to which the specified thing belongs.

Requires permission to access the [ListThingGroupsForThing](#) action.

Request Syntax

```
GET /things/thingName/thing-groups?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

thingName

The thing name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```


Content-type: application/json

```
{
  "nextToken": "string",
  "thingGroups": [
    {
      "groupArn": "string",
      "groupName": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

thingGroups

The thing groups.

Type: Array of [GroupNameAndArn](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListThingPrincipals

Service: AWS IoT

Lists the principals associated with the specified thing. A principal can be X.509 certificates, IAM users, groups, and roles, Amazon Cognito identities or federated identities.

Requires permission to access the [ListThingPrincipals](#) action.

Request Syntax

```
GET /things/thingName/principals?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

[thingName](#)

The name of the thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "nextToken": "string",
  "principals": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

principals

The principals associated with the thing.

Type: Array of strings

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListThingPrincipalsV2

Service: AWS IoT

Lists the principals associated with the specified thing. A principal can be an X.509 certificate or an Amazon Cognito ID.

Requires permission to access the [ListThingPrincipals](#) action.

Request Syntax

```
GET /things/thingName/principals-v2?
maxResults=maxResults&nextToken=nextToken&thingPrincipalType=thingPrincipalType
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

[thingName](#)

The name of the thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

[thingPrincipalType](#)

The type of the relation you want to filter in the response. If no value is provided in this field, the response will list all principals, including both the `EXCLUSIVE_THING` and `NON_EXCLUSIVE_THING` attachment types.

- **EXCLUSIVE_THING** - Attaches the specified principal to the specified thing, exclusively. The thing will be the only thing that's attached to the principal.
- **NON_EXCLUSIVE_THING** - Attaches the specified principal to the specified thing. Multiple things can be attached to the principal.

Valid Values: **EXCLUSIVE_THING** | **NON_EXCLUSIVE_THING**

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "thingPrincipalObjects": [
    {
      "principal": "string",
      "thingPrincipalType": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

thingPrincipalObjects

A list of `thingPrincipalObject` that represents the principal and the type of relation it has with the thing.

Type: Array of [ThingPrincipalObject](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListThingRegistrationTaskReports

Service: AWS IoT

Information about the thing registration tasks.

Request Syntax

```
GET /thing-registration-tasks/taskId/reports?  
maxResults=maxResults&nextToken=nextToken&reportType=reportType HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return per request.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

reportType

The type of task report.

Valid Values: ERRORS | RESULTS

Required: Yes

taskId

The id of the task.

Length Constraints: Maximum length of 40.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "reportType": "string",
  "resourceLinks": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken](#)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

[reportType](#)

The type of task report.

Type: String

Valid Values: ERRORS | RESULTS

[resourceLinks](#)

Links to the task resources.

Type: Array of strings

Length Constraints: Maximum length of 65535.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListThingRegistrationTasks

Service: AWS IoT

List bulk thing provisioning tasks.

Requires permission to access the [ListThingRegistrationTasks](#) action.

Request Syntax

```
GET /thing-registration-tasks?maxResults=maxResults&nextToken=nextToken&status=status
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

[status](#)

The status of the bulk thing provisioning task.

Valid Values: `InProgress` | `Completed` | `Failed` | `Cancelled` | `Cancelling`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```



```
{
  "nextToken": "string",
  "taskIds": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

taskIds

A list of bulk thing provisioning task IDs.

Type: Array of strings

Length Constraints: Maximum length of 40.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListThings

Service: AWS IoT

Lists your things. Use the **attributeName** and **attributeValue** parameters to filter your things. For example, calling `ListThings` with `attributeName=Color` and `attributeValue=Red` retrieves all things in the registry that contain an attribute **Color** with the value **Red**. For more information, see [List Things](#) from the *AWS IoT Core Developer Guide*.

Requires permission to access the [ListThings](#) action.

Note

You will not be charged for calling this API if an `Access denied` error is returned. You will also not be charged if no attributes or pagination token was provided in request and no pagination token and no results were returned.

Request Syntax

```
GET /things?
attributeName=attributeName&attributeValue=attributeValue&maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

attributeName

The attribute name used to search for things.

Length Constraints: Maximum length of 128.

Pattern: `[a-zA-Z0-9_.,@/:#-]+`

attributeValue

The attribute value used to search for things.

Length Constraints: Maximum length of 800.

Pattern: [a-zA-Z0-9_.,@/:#=#\[\]-]*

maxResults

The maximum number of results to return in this operation.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

thingTypeName

The name of the thing type used to search for things.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

usePrefixAttributeValue

When `true`, the action returns the thing resources with attribute values that start with the `attributeValue` provided.

When `false`, or not present, the action returns only the thing resources with attribute values that match the entire `attributeValue` provided.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "things": [
    {
      "attributes": {
        "string" : "string"
      }
    }
  ]
}
```

```
    },  
    "thingArn": "string",  
    "thingName": "string",  
    "thingTypeName": "string",  
    "version": number  
  }  
]  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken](#)

The token to use to get the next set of results. Will not be returned if operation has returned all results.

Type: String

[things](#)

The things.

Type: Array of [ThingAttribute](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListThingsInBillingGroup

Service: AWS IoT

Lists the things you have added to the given billing group.

Requires permission to access the [ListThingsInBillingGroup](#) action.

Request Syntax

```
GET /billing-groups/billingGroupName/things?maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[billingGroupName](#)

The name of the billing group.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

[maxResults](#)

The maximum number of results to return per request.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```



```
Content-type: application/json
```

```
{
  "nextToken": "string",
  "things": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token to use to get the next set of results. Will not be returned if operation has returned all results.

Type: String

things

A list of things in the billing group.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListThingsInThingGroup

Service: AWS IoT

Lists the things in the specified group.

Requires permission to access the [ListThingsInThingGroup](#) action.

Request Syntax

```
GET /thing-groups/thingGroupName/things?  
maxResults=maxResults&nextToken=nextToken&recursive=recursive HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

[recursive](#)

When true, list things in this thing group and in all child groups as well.

[thingGroupName](#)

The thing group name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "things": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

things

The things in the specified thing group.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListThingTypes

Service: AWS IoT

Lists the existing thing types.

Requires permission to access the [ListThingTypes](#) action.

Request Syntax

```
GET /thing-types?maxResults=maxResults&nextToken=nextToken&thingTypeName=thingTypeName  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return in this operation.

Valid Range: Minimum value of 1. Maximum value of 250.

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

[thingTypeName](#)

The name of the thing type.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200  
Content-type: application/json
```



```

{
  "nextToken": "string",
  "thingTypes": [
    {
      "thingTypeArn": "string",
      "thingTypeMetadata": {
        "creationDate": number,
        "deprecated": boolean,
        "deprecationDate": number
      },
      "thingTypeName": "string",
      "thingTypeProperties": {
        "mqtt5Configuration": {
          "propagatingAttributes": [
            {
              "connectionAttribute": "string",
              "thingAttribute": "string",
              "userPropertyKey": "string"
            }
          ]
        },
        "searchableAttributes": [ "string" ],
        "thingTypeDescription": "string"
      }
    }
  ]
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token for the next set of results. Will not be returned if operation has returned all results.

Type: String

thingTypes

The thing types.

Type: Array of [ThingTypeDefinition](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListTopicRuleDestinations

Service: AWS IoT

Lists all the topic rule destinations in your AWS account.

Requires permission to access the [ListTopicRuleDestinations](#) action.

Request Syntax

```
GET /destinations?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 1000.

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "destinationSummaries": [
    {
      "arn": "string",
      "createdAt": number,
      "httpUrlSummary": {
        "confirmationUrl": "string"
      }
    }
  ]
}
```

```
    },
    "lastUpdatedAt": number,
    "status": "string",
    "statusReason": "string",
    "vpcDestinationSummary": {
      "roleArn": "string",
      "securityGroups": [ "string" ],
      "subnetIds": [ "string" ],
      "vpcId": "string"
    }
  }
],
"nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

destinationSummaries

Information about a topic rule destination.

Type: Array of [TopicRuleDestinationSummary](#) objects

nextToken

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

Errors

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListTopicRules

Service: AWS IoT

Lists the rules for the specific topic.

Requires permission to access the [ListTopicRules](#) action.

Request Syntax

```
GET /rules?  
maxResults=maxResults&nextToken=nextToken&ruleDisabled=ruleDisabled&topic=topic  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return.

Valid Range: Minimum value of 1. Maximum value of 10000.

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

[ruleDisabled](#)

Specifies whether the rule is disabled.

[topic](#)

The topic.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```



```
Content-type: application/json

{
  "nextToken": "string",
  "rules": [
    {
      "createdAt": number,
      "ruleArn": "string",
      "ruleDisabled": boolean,
      "ruleName": "string",
      "topicPattern": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

rules

The rules.

Type: Array of [TopicRuleListItem](#) objects

Errors

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListV2LoggingLevels

Service: AWS IoT

Lists logging levels.

Requires permission to access the [ListV2LoggingLevels](#) action.

Request Syntax

```
GET /v2LoggingLevel?maxResults=maxResults&nextToken=nextToken&targetType=targetType
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

maxResults

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

targetType

The type of resource for which you are configuring logging. Must be `THING_Group`.

Valid Values: `DEFAULT` | `THING_GROUP` | `CLIENT_ID` | `SOURCE_IP` | `PRINCIPAL_ID`

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "logTargetConfigurations": [
    {
      "logLevel": "string",
      "logTarget": {
        "targetName": "string",
        "targetType": "string"
      }
    }
  ],
  "nextToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[logTargetConfigurations](#)

The logging configuration for a target.

Type: Array of [LogTargetConfiguration](#) objects

[nextToken](#)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

Errors

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

NotConfiguredException

The resource is not configured.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListViolationEvents

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Lists the Device Defender security profile violations discovered during the given time period. You can use filters to limit the results to those alerts issued for a particular security profile, behavior, or thing (device).

Requires permission to access the [ListViolationEvents](#) action.

Request Syntax

```
GET /violation-events?  
behaviorCriteriaType=behaviorCriteriaType&endTime=endTime&listSuppressedAlerts=listSuppressedAlerts  
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[behaviorCriteriaType](#)

The criteria for a behavior.

Valid Values: STATIC | STATISTICAL | MACHINE_LEARNING

[endTime](#)

The end time for the alerts to be listed.

Required: Yes

[listSuppressedAlerts](#)

A list of all suppressed alerts.

maxResults

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 250.

nextToken

The token for the next set of results.

securityProfileName

A filter to limit results to those alerts generated by the specified security profile.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

startTime

The start time for the alerts to be listed.

Required: Yes

thingName

A filter to limit results to those alerts caused by the specified thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

verificationState

The verification state of the violation (detect alarm).

Valid Values: FALSE_POSITIVE | BENIGN_POSITIVE | TRUE_POSITIVE | UNKNOWN

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
```

```

"violationEvents": [
  {
    "behavior": {
      "criteria": {
        "comparisonOperator": "string",
        "consecutiveDatapointsToAlarm": number,
        "consecutiveDatapointsToClear": number,
        "durationSeconds": number,
        "mlDetectionConfig": {
          "confidenceLevel": "string"
        },
        "statisticalThreshold": {
          "statistic": "string"
        },
        "value": {
          "cidrs": [ "string" ],
          "count": number,
          "number": number,
          "numbers": [ number ],
          "ports": [ number ],
          "strings": [ "string" ]
        }
      },
      "exportMetric": boolean,
      "metric": "string",
      "metricDimension": {
        "dimensionName": "string",
        "operator": "string"
      },
      "name": "string",
      "suppressAlerts": boolean
    },
    "metricValue": {
      "cidrs": [ "string" ],
      "count": number,
      "number": number,
      "numbers": [ number ],
      "ports": [ number ],
      "strings": [ "string" ]
    },
    "securityProfileName": "string",
    "thingName": "string",
    "verificationState": "string",
    "verificationStateDescription": "string",
  }
]

```

```
    "violationEventAdditionalInfo": {  
      "confidenceLevel": "string"  
    },  
    "violationEventTime": number,  
    "violationEventType": "string",  
    "violationId": "string"  
  }  
]  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken](#)

A token that can be used to retrieve the next set of results, or `null` if there are no additional results.

Type: String

[violationEvents](#)

The security profile violation alerts issued for this account during the given time period, potentially filtered by security profile, behavior violated, or thing (device) violating.

Type: Array of [ViolationEvent](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

PutVerificationStateOnViolation

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Set a verification state and provide a description of that verification state on a violation (detect alarm).

Request Syntax

```
POST /violations/verification-state/violationId HTTP/1.1
Content-type: application/json
```

```
{
  "verificationState": "string",
  "verificationStateDescription": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

violationId

The violation ID.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

verificationState

The verification state of the violation.

Type: String

Valid Values: FALSE_POSITIVE | BENIGN_POSITIVE | TRUE_POSITIVE | UNKNOWN

Required: Yes

verificationStateDescription

The description of the verification state of the violation (detect alarm).

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [^\p{Cntrl}]*

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

RegisterCACertificate

Service: AWS IoT

Registers a CA certificate with AWS IoT Core. There is no limit to the number of CA certificates you can register in your AWS account. You can register up to 10 CA certificates with the same CA subject field per AWS account.

Requires permission to access the [RegisterCACertificate](#) action.

Request Syntax

```
POST /cacertificate?allowAutoRegistration=allowAutoRegistration&setAsActive=setAsActive
HTTP/1.1
Content-type: application/json

{
  "caCertificate": "string",
  "certificateMode": "string",
  "registrationConfig": {
    "roleArn": "string",
    "templateBody": "string",
    "templateName": "string"
  },
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "verificationCertificate": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[allowAutoRegistration](#)

Allows this CA certificate to be used for auto registration of device certificates.

[setAsActive](#)

A boolean value that specifies if the CA certificate is set to active.

Valid values: ACTIVE | INACTIVE

Request Body

The request accepts the following data in JSON format.

caCertificate

The CA certificate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\s\S]*`

Required: Yes

certificateMode

Describes the certificate mode in which the Certificate Authority (CA) will be registered. If the `verificationCertificate` field is not provided, set `certificateMode` to be `SNI_ONLY`. If the `verificationCertificate` field is provided, set `certificateMode` to be `DEFAULT`. When `certificateMode` is not provided, it defaults to `DEFAULT`. All the device certificates that are registered using this CA will be registered in the same certificate mode as the CA. For more information about certificate mode for device certificates, see [certificate mode](#).

Type: String

Valid Values: DEFAULT | SNI_ONLY

Required: No

registrationConfig

Information about the registration configuration.

Type: [RegistrationConfig](#) object

Required: No

tags

Metadata which can be used to manage the CA certificate.

Note

For URI Request parameters use format: ...key1=value1&key2=value2...

For the CLI command-line parameter use format: &&tags "key1=value1&key2=value2..."

For the cli-input-json file use format: "tags": "key1=value1&key2=value2..."

Type: Array of [Tag](#) objects

Required: No

verificationCertificate

The private key verification certificate. If `certificateMode` is `SNI_ONLY`, the `verificationCertificate` field must be empty. If `certificateMode` is `DEFAULT` or not provided, the `verificationCertificate` field must not be empty.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\s\S]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificateArn": "string",
  "certificateId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

certificateArn

The CA certificate ARN.

Type: String

certificateId

The CA certificate identifier.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Errors

CertificateValidationException

The certificate is invalid.

message

Additional information about the exception.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

RegistrationCodeValidationException

The registration code is invalid.

message

Additional information about the exception.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

RegisterCertificate

Service: AWS IoT

Registers a device certificate with AWS IoT in the same [certificate mode](#) as the signing CA. If you have more than one CA certificate that has the same subject field, you must specify the CA certificate that was used to sign the device certificate being registered.

Requires permission to access the [RegisterCertificate](#) action.

Request Syntax

```
POST /certificate/register?setAsActive=setAsActive HTTP/1.1
Content-type: application/json
```

```
{
  "caCertificatePem": "string",
  "certificatePem": "string",
  "status": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[setAsActive](#)

This parameter has been deprecated.

A boolean value that specifies if the certificate is set to active.

Valid values: ACTIVE | INACTIVE

Request Body

The request accepts the following data in JSON format.

[caCertificatePem](#)

The CA certificate used to sign the device certificate being registered.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\s\S]*`

Required: No

certificatePem

The certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\s\S]*`

Required: Yes

status

The status of the register certificate request. Valid values that you can use include ACTIVE, INACTIVE, and REVOKED.

Type: String

Valid Values: ACTIVE | INACTIVE | REVOKED | PENDING_TRANSFER | REGISTER_INACTIVE | PENDING_ACTIVATION

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificateArn": "string",
  "certificateId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

certificateArn

The certificate ARN.

Type: String

certificateId

The certificate identifier.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Errors

CertificateConflictException

Unable to verify the CA certificate used to sign the device certificate you are attempting to register. This happens when you have registered more than one CA certificate that has the same subject field and public key.

message

The message for the exception.

HTTP Status Code: 409

CertificateStateException

The certificate operation is not allowed.

message

The message for the exception.

HTTP Status Code: 406

CertificateValidationException

The certificate is invalid.

message

Additional information about the exception.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

RegisterCertificateWithoutCA

Service: AWS IoT

Register a certificate that does not have a certificate authority (CA). For supported certificates, consult [Certificate signing algorithms supported by AWS IoT](#).

Request Syntax

```
POST /certificate/register-no-ca HTTP/1.1
Content-type: application/json

{
  "certificatePem": "string",
  "status": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

certificatePem

The certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\s\S]*`

Required: Yes

status

The status of the register certificate request.

Type: String

Valid Values: ACTIVE | INACTIVE | REVOKED | PENDING_TRANSFER | REGISTER_INACTIVE | PENDING_ACTIVATION

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificateArn": "string",
  "certificateId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[certificateArn](#)

The Amazon Resource Name (ARN) of the registered certificate.

Type: String

[certificateId](#)

The ID of the registered certificate. (The last part of the certificate ARN contains the certificate ID.)

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Errors

CertificateStateException

The certificate operation is not allowed.

message

The message for the exception.

HTTP Status Code: 406

CertificateValidationException

The certificate is invalid.

message

Additional information about the exception.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

RegisterThing

Service: AWS IoT

Provisions a thing in the device registry. RegisterThing calls other AWS IoT control plane APIs. These calls might exceed your account level [AWS IoT Throttling Limits](#) and cause throttle errors. Please contact [AWS Customer Support](#) to raise your throttling limits if necessary.

Requires permission to access the [RegisterThing](#) action.

Request Syntax

```
POST /things HTTP/1.1
Content-type: application/json

{
  "parameters": {
    "string" : "string"
  },
  "templateBody": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[parameters](#)

The parameters for provisioning a thing. See [Provisioning Templates](#) for more information.

Type: String to string map

Key Length Constraints: Minimum length of 0. Maximum length of 2048.

Key Pattern: `[\s\S]*`

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Value Pattern: `[\s\S]*`

Required: No

templateBody

The provisioning template. See [Provisioning Devices That Have Device Certificates](#) for more information.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: `[\s\S]*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificatePem": "string",
  "resourceArns": {
    "string" : "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

certificatePem

The certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\s\S]*`

resourceArns

ARNs for the generated resources.

Type: String to string map

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceRegistrationFailureException

The resource registration failed.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

RejectCertificateTransfer

Service: AWS IoT

Rejects a pending certificate transfer. After AWS IoT rejects a certificate transfer, the certificate status changes from **PENDING_TRANSFER** to **INACTIVE**.

To check for pending certificate transfers, call [ListCertificates](#) to enumerate your certificates.

This operation can only be called by the transfer destination. After it is called, the certificate will be returned to the source's account in the INACTIVE state.

Requires permission to access the [RejectCertificateTransfer](#) action.

Request Syntax

```
PATCH /reject-certificate-transfer/certificateId HTTP/1.1
Content-type: application/json

{
  "rejectReason": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[certificateId](#)

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[rejectReason](#)

The reason the certificate transfer was rejected.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\s\S]*`

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

TransferAlreadyCompletedException

You can't revert the certificate transfer because the transfer is already complete.

message

The message for the exception.

HTTP Status Code: 410

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

RemoveThingFromBillingGroup

Service: AWS IoT

Removes the given thing from the billing group.

Requires permission to access the [RemoveThingFromBillingGroup](#) action.

Note

This call is asynchronous. It might take several seconds for the detachment to propagate.

Request Syntax

```
PUT /billing-groups/removeThingFromBillingGroup HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "billingGroupArn": "string",
  "billingGroupName": "string",
  "thingArn": "string",
  "thingName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[billingGroupArn](#)

The ARN of the billing group.

Type: String

Required: No

[billingGroupName](#)

The name of the billing group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingArn

The ARN of the thing to be removed from the billing group.

Type: String

Required: No

thingName

The name of the thing to be removed from the billing group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

RemoveThingFromThingGroup

Service: AWS IoT

Remove the specified thing from the specified group.

You must specify either a `thingGroupArn` or a `thingGroupName` to identify the thing group and either a `thingArn` or a `thingName` to identify the thing to remove from the thing group.

Requires permission to access the [RemoveThingFromThingGroup](#) action.

Request Syntax

```
PUT /thing-groups/removeThingFromThingGroup HTTP/1.1
Content-type: application/json
```

```
{
  "thingArn": "string",
  "thingGroupArn": "string",
  "thingGroupName": "string",
  "thingName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[thingArn](#)

The ARN of the thing to remove from the group.

Type: String

Required: No

[thingGroupArn](#)

The group ARN.

Type: String

Required: No

thingGroupName

The group name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingName

The name of the thing to remove from the group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ReplaceTopicRule

Service: AWS IoT

Replaces the rule. You must specify all parameters for the new rule. Creating rules is an administrator-level action. Any user who has permission to create rules will be able to access data processed by the rule.

Requires permission to access the [ReplaceTopicRule](#) action.

Request Syntax

```
PATCH /rules/ruleName HTTP/1.1
Content-type: application/json

{
  "actions": [
    {
      "cloudwatchAlarm": {
        "alarmName": "string",
        "roleArn": "string",
        "stateReason": "string",
        "stateValue": "string"
      },
      "cloudwatchLogs": {
        "batchMode": boolean,
        "logGroupName": "string",
        "roleArn": "string"
      },
      "cloudwatchMetric": {
        "metricName": "string",
        "metricNamespace": "string",
        "metricTimestamp": "string",
        "metricUnit": "string",
        "metricValue": "string",
        "roleArn": "string"
      },
      "dynamoDB": {
        "hashKeyField": "string",
        "hashKeyType": "string",
        "hashKeyValue": "string",
        "operation": "string",
        "payloadField": "string",
        "rangeKeyField": "string",
```

```
    "rangeKeyType": "string",
    "rangeKeyValue": "string",
    "roleArn": "string",
    "tableName": "string"
  },
  "dynamoDBv2": {
    "putItem": {
      "tableName": "string"
    },
    "roleArn": "string"
  },
  "elasticsearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
  },
  "firehose": {
    "batchMode": boolean,
    "deliveryStreamName": "string",
    "roleArn": "string",
    "separator": "string"
  },
  "http": {
    "auth": {
      "sigv4": {
        "roleArn": "string",
        "serviceName": "string",
        "signingRegion": "string"
      }
    },
    "batchConfig": {
      "batchAcrossTopics": boolean,
      "maxBatchOpenMs": number,
      "maxBatchSize": number,
      "maxBatchSizeBytes": number
    },
    "confirmationUrl": "string",
    "enableBatching": boolean,
    "headers": [
      {
        "key": "string",
        "value": "string"
      }
    ]
  }
}
```

```

    }
  ],
  "url": "string"
},
"iotAnalytics": {
  "batchMode": boolean,
  "channelArn": "string",
  "channelName": "string",
  "roleArn": "string"
},
"iotEvents": {
  "batchMode": boolean,
  "inputName": "string",
  "messageId": "string",
  "roleArn": "string"
},
"iotSiteWise": {
  "putAssetPropertyValueEntries": [
    {
      "assetId": "string",
      "entryId": "string",
      "propertyAlias": "string",
      "propertyId": "string",
      "propertyValues": [
        {
          "quality": "string",
          "timestamp": {
            "offsetInNanos": "string",
            "timeInSeconds": "string"
          },
          "value": {
            "booleanValue": "string",
            "doubleValue": "string",
            "integerValue": "string",
            "stringValue": "string"
          }
        }
      ]
    }
  ]
},
"roleArn": "string"
},
"kafka": {
  "clientProperties": {

```

```
    "string" : "string"
  },
  "destinationArn": "string",
  "headers": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "key": "string",
  "partition": "string",
  "topic": "string"
},
"kinesis": {
  "partitionKey": "string",
  "roleArn": "string",
  "streamName": "string"
},
"lambda": {
  "functionArn": "string"
},
"location": {
  "deviceId": "string",
  "latitude": "string",
  "longitude": "string",
  "roleArn": "string",
  "timestamp": {
    "unit": "string",
    "value": "string"
  },
  "trackerName": "string"
},
"openSearch": {
  "endpoint": "string",
  "id": "string",
  "index": "string",
  "roleArn": "string",
  "type": "string"
},
"republish": {
  "headers": {
    "contentType": "string",
    "correlationData": "string",
    "messageExpiry": "string",
```

```

    "payloadFormatIndicator": "string",
    "responseTopic": "string",
    "userProperties": [
      {
        "key": "string",
        "value": "string"
      }
    ],
    },
    "qos": number,
    "roleArn": "string",
    "topic": "string"
  },
  "s3": {
    "bucketName": "string",
    "cannedAcl": "string",
    "key": "string",
    "roleArn": "string"
  },
  "salesforce": {
    "token": "string",
    "url": "string"
  },
  "sns": {
    "messageFormat": "string",
    "roleArn": "string",
    "targetArn": "string"
  },
  "sqs": {
    "queueUrl": "string",
    "roleArn": "string",
    "useBase64": boolean
  },
  "stepFunctions": {
    "executionNamePrefix": "string",
    "roleArn": "string",
    "stateMachineName": "string"
  },
  "timestream": {
    "databaseName": "string",
    "dimensions": [
      {
        "name": "string",
        "value": "string"
      }
    ]
  }
}

```

```

    }
  ],
  "roleArn": "string",
  "tableName": "string",
  "timestamp": {
    "unit": "string",
    "value": "string"
  }
}
}
],
"awsIotSqlVersion": "string",
"description": "string",
"errorAction": {
  "cloudwatchAlarm": {
    "alarmName": "string",
    "roleArn": "string",
    "stateReason": "string",
    "stateValue": "string"
  },
  "cloudwatchLogs": {
    "batchMode": boolean,
    "logGroupName": "string",
    "roleArn": "string"
  },
  "cloudwatchMetric": {
    "metricName": "string",
    "metricNamespace": "string",
    "metricTimestamp": "string",
    "metricUnit": "string",
    "metricValue": "string",
    "roleArn": "string"
  },
  "dynamoDB": {
    "hashKeyField": "string",
    "hashKeyType": "string",
    "hashKeyValue": "string",
    "operation": "string",
    "payloadField": "string",
    "rangeKeyField": "string",
    "rangeKeyType": "string",
    "rangeKeyValue": "string",
    "roleArn": "string",
    "tableName": "string"
  }
}

```

```
},
  "dynamoDBv2": {
    "putItem": {
      "tableName": "string"
    },
    "roleArn": "string"
  },
  "elasticsearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
  },
  "firehose": {
    "batchMode": boolean,
    "deliveryStreamName": "string",
    "roleArn": "string",
    "separator": "string"
  },
  "http": {
    "auth": {
      "sigv4": {
        "roleArn": "string",
        "serviceName": "string",
        "signingRegion": "string"
      }
    },
    "batchConfig": {
      "batchAcrossTopics": boolean,
      "maxBatchOpenMs": number,
      "maxBatchSize": number,
      "maxBatchSizeBytes": number
    },
    "confirmationUrl": "string",
    "enableBatching": boolean,
    "headers": [
      {
        "key": "string",
        "value": "string"
      }
    ],
    "url": "string"
  },
}
```



```

    "iotAnalytics": {
        "batchMode": boolean,
        "channelArn": "string",
        "channelName": "string",
        "roleArn": "string"
    },
    "iotEvents": {
        "batchMode": boolean,
        "inputName": "string",
        "messageId": "string",
        "roleArn": "string"
    },
    "iotSiteWise": {
        "putAssetPropertyValueEntries": [
            {
                "assetId": "string",
                "entryId": "string",
                "propertyAlias": "string",
                "propertyId": "string",
                "propertyValues": [
                    {
                        "quality": "string",
                        "timestamp": {
                            "offsetInNanos": "string",
                            "timeInSeconds": "string"
                        },
                        "value": {
                            "booleanValue": "string",
                            "doubleValue": "string",
                            "integerValue": "string",
                            "stringValue": "string"
                        }
                    }
                ]
            }
        ],
        "roleArn": "string"
    },
    "kafka": {
        "clientProperties": {
            "string" : "string"
        },
        "destinationArn": "string",
        "headers": [

```

```

        {
            "key": "string",
            "value": "string"
        }
    ],
    "key": "string",
    "partition": "string",
    "topic": "string"
},
"kinesis": {
    "partitionKey": "string",
    "roleArn": "string",
    "streamName": "string"
},
"lambda": {
    "functionArn": "string"
},
"location": {
    "deviceId": "string",
    "latitude": "string",
    "longitude": "string",
    "roleArn": "string",
    "timestamp": {
        "unit": "string",
        "value": "string"
    },
    "trackerName": "string"
},
"openSearch": {
    "endpoint": "string",
    "id": "string",
    "index": "string",
    "roleArn": "string",
    "type": "string"
},
"republish": {
    "headers": {
        "contentType": "string",
        "correlationData": "string",
        "messageExpiry": "string",
        "payloadFormatIndicator": "string",
        "responseTopic": "string",
        "userProperties": [
            {

```

```

        "key": "string",
        "value": "string"
    }
]
},
"qos": number,
"roleArn": "string",
"topic": "string"
},
"s3": {
    "bucketName": "string",
    "cannedAcl": "string",
    "key": "string",
    "roleArn": "string"
},
"salesforce": {
    "token": "string",
    "url": "string"
},
"sns": {
    "messageFormat": "string",
    "roleArn": "string",
    "targetArn": "string"
},
"sqs": {
    "queueUrl": "string",
    "roleArn": "string",
    "useBase64": boolean
},
"stepFunctions": {
    "executionNamePrefix": "string",
    "roleArn": "string",
    "stateMachineName": "string"
},
"timestream": {
    "databaseName": "string",
    "dimensions": [
        {
            "name": "string",
            "value": "string"
        }
    ],
    "roleArn": "string",
    "tableName": "string",

```

```
    "timestamp": {
      "unit": "string",
      "value": "string"
    }
  },
  "ruleDisabled": boolean,
  "sql": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

ruleName

The name of the rule.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_]+$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

actions

The actions associated with the rule.

Type: Array of [Action](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: Yes

awsIotSqlVersion

The version of the SQL rules engine to use when evaluating the rule.

Type: String

Required: No

description

The description of the rule.

Type: String

Required: No

errorAction

The action to take when an error occurs.

Type: [Action](#) object

Required: No

ruleDisabled

Specifies whether the rule is disabled.

Type: Boolean

Required: No

sql

The SQL statement used to query the topic. For more information, see [AWS IoT SQL Reference](#) in the *AWS IoT Developer Guide*.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

SqlParseException

The Rule-SQL expression can't be parsed correctly.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

SearchIndex

Service: AWS IoT

Searches the specified index.

If a device has never connected to IoT Core or was disconnected for more than 1 hour before fleet indexing's thingConnectivityIndexingMode was enabled, the connectivity object for this device in the response will have the connected field set to false with no additional session details.

Requires permission to access the [SearchIndex](#) action.

Request Syntax

```
POST /indices/search HTTP/1.1
Content-type: application/json

{
  "indexName": "string",
  "maxResults": number,
  "nextToken": "string",
  "queryString": "string",
  "queryVersion": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

indexName

The search index name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

maxResults

The maximum number of results to return per page at one time. This maximum number cannot exceed 100. The response might contain fewer results but will never contain more. You can use [nextToken](#) to retrieve the next set of results until nextToken returns NULL.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

nextToken

The token used to get the next set of results, or null if there are no additional results.

Type: String

Required: No

queryString

The search query string. For more information about the search query syntax, see [Query syntax](#).

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

queryVersion

The query version.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "nextToken": "string",
  "thingGroups": [
    {
      "attributes": {
        "string": "string"
      },
      "parentGroupNames": [ "string" ],
      "thingGroupDescription": "string",
      "thingGroupId": "string",
      "thingGroupName": "string"
    }
  ],
  "things": [
    {
      "attributes": {
        "string": "string"
      },
      "connectivity": {
        "cleanSession": boolean,
        "clientId": "string",
        "connected": boolean,
        "disconnectReason": "string",
        "keepAliveDuration": number,
        "sessionExpiry": number,
        "timestamp": number
      },
      "deviceDefender": "string",
      "shadow": "string",
      "thingGroupNames": [ "string" ],
      "thingId": "string",
      "thingName": "string",
      "thingTypeName": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token used to get the next set of results, or `null` if there are no additional results.

Type: String

thingGroups

The thing groups that match the search query.

Type: Array of [ThingGroupDocument](#) objects

things

The things that match the search query.

Type: Array of [ThingDocument](#) objects

Errors

IndexNotReadyException

The index is not ready.

message

The message for the exception.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidQueryException

The query is invalid.

message

The message for the exception.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

SetDefaultAuthorizer

Service: AWS IoT

Sets the default authorizer. This will be used if a websocket connection is made without specifying an authorizer.

Requires permission to access the [SetDefaultAuthorizer](#) action.

Request Syntax

```
POST /default-authorizer HTTP/1.1
Content-type: application/json

{
  "authorizerName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[authorizerName](#)

The authorizer name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=, @- ]+`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{  
  "authorizerArn": "string",  
  "authorizerName": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[authorizerArn](#)

The authorizer ARN.

Type: String

Length Constraints: Maximum length of 2048.

[authorizerName](#)

The authorizer name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@-]+`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceAlreadyExistsException

The resource already exists.

message

The message for the exception.

resourceArn

The ARN of the resource that caused the exception.

resourceId

The ID of the resource that caused the exception.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

SetDefaultPolicyVersion

Service: AWS IoT

Sets the specified version of the specified policy as the policy's default (operative) version. This action affects all certificates to which the policy is attached. To list the principals the policy is attached to, use the [ListPrincipalPolicies](#) action.

Requires permission to access the [SetDefaultPolicyVersion](#) action.

Request Syntax

```
PATCH /policies/policyName/version/policyVersionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[policyName](#)

The policy name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: Yes

[policyVersionId](#)

The policy version ID.

Pattern: `[0-9 ]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

SetLoggingOptions

Service: AWS IoT

Sets the logging options.

NOTE: use of this command is not recommended. Use SetV2LoggingOptions instead.

Requires permission to access the [SetLoggingOptions](#) action.

Request Syntax

```
POST /loggingOptions HTTP/1.1
Content-type: application/json

{
  "logLevel": "string",
  "roleArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[logLevel](#)

The log level.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

Required: No

[roleArn](#)

The ARN of the IAM role that grants access.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

SetV2LoggingLevel

Service: AWS IoT

Sets the logging level.

Requires permission to access the [SetV2LoggingLevel](#) action.

Request Syntax

```
POST /v2LoggingLevel HTTP/1.1
Content-type: application/json

{
  "logLevel": "string",
  "logTarget": {
    "targetName": "string",
    "targetType": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[logLevel](#)

The log level.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

Required: Yes

[logTarget](#)

The log target.

Type: [LogTarget](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

NotConfiguredException

The resource is not configured.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

SetV2LoggingOptions

Service: AWS IoT

Sets the logging options for the V2 logging service.

Requires permission to access the [SetV2LoggingOptions](#) action.

Request Syntax

```
POST /v2LoggingOptions HTTP/1.1
Content-type: application/json

{
  "defaultLogLevel": "string",
  "disableAllLogs": boolean,
  "eventConfigurations": [
    {
      "eventType": "string",
      "logDestination": "string",
      "logLevel": "string"
    }
  ],
  "roleArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

defaultLogLevel

The default logging level.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

Required: No

disableAllLogs

If true all logs are disabled. The default is false.

Type: Boolean

Required: No

eventConfigurations

The list of event configurations that override account-level logging.

Type: Array of [LogEventConfiguration](#) objects

Required: No

roleArn

The ARN of the role that allows IoT to write to Cloudwatch logs.

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

StartAuditMitigationActionsTask

Service: AWS IoT

Starts a task that applies a set of mitigation actions to the specified target.

Requires permission to access the [StartAuditMitigationActionsTask](#) action.

Request Syntax

```
POST /audit/mitigationactions/tasks/taskId HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "auditCheckToActionsMapping": {
    "string" : [ "string" ]
  },
  "clientRequestToken": "string",
  "target": {
    "auditCheckToReasonCodeFilter": {
      "string" : [ "string" ]
    },
    "auditTaskId": "string",
    "findingIds": [ "string" ]
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

taskId

A unique identifier for the task. You can use this identifier to check the status of the task or to cancel it.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[auditCheckToActionsMapping](#)

For an audit check, specifies which mitigation actions to apply. Those actions must be defined in your AWS accounts.

Type: String to array of strings map

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

[clientRequestToken](#)

Each audit mitigation task must have a unique client request token. If you try to start a new task with the same token as a task that already exists, an exception occurs. If you omit this value, a unique client request token is generated automatically.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: ^[a-zA-Z0-9-_\$]

Required: Yes

[target](#)

Specifies the audit findings to which the mitigation actions are applied. You can apply them to a type of audit check, to all findings from an audit, or to a specific set of findings.

Type: [AuditMitigationActionsTaskTarget](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "taskId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

taskId

The unique identifier for the audit mitigation task. This matches the taskId that you specified in the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

TaskAlreadyExistsException

This exception occurs if you attempt to start a task with the same task-id as an existing task but with a different clientRequestToken.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)

- [AWS SDK for Ruby V3](#)

StartDetectMitigationActionsTask

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Starts a Device Defender ML Detect mitigation actions task.

Requires permission to access the [StartDetectMitigationActionsTask](#) action.

Request Syntax

PUT /detect/mitigationactions/tasks/*taskId* HTTP/1.1

Content-type: application/json

```
{
  "actions": [ "string" ],
  "clientRequestToken": "string",
  "includeOnlyActiveViolations": boolean,
  "includeSuppressedAlerts": boolean,
  "target": {
    "behaviorName": "string",
    "securityProfileName": "string",
    "violationIds": [ "string" ]
  },
  "violationEventOccurrenceRange": {
    "endTime": number,
    "startTime": number
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

taskId

The unique identifier of the task.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

actions

The actions to be performed when a device has unexpected behavior.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

clientRequestToken

Each mitigation action task must have a unique client request token. If you try to create a new task with the same token as a task that already exists, an exception occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: ^[a-zA-Z0-9-_\$]

Required: Yes

includeOnlyActiveViolations

Specifies to list only active violations.

Type: Boolean

Required: No

includeSuppressedAlerts

Specifies to include suppressed alerts.

Type: Boolean

Required: No

target

Specifies the ML Detect findings to which the mitigation actions are applied.

Type: [DetectMitigationActionsTaskTarget](#) object

Required: Yes

violationEventOccurrenceRange

Specifies the time period of which violation events occurred between.

Type: [ViolationEventOccurrenceRange](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "taskId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

taskId

The unique identifier of the task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

TaskAlreadyExistsException

This exception occurs if you attempt to start a task with the same task-id as an existing task but with a different clientRequestToken.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

StartOnDemandAuditTask

Service: AWS IoT

Starts an on-demand Device Defender audit.

Requires permission to access the [StartOnDemandAuditTask](#) action.

Request Syntax

```
POST /audit/tasks HTTP/1.1
Content-type: application/json

{
  "targetCheckNames": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[targetCheckNames](#)

Which checks are performed during the audit. The checks you specify must be enabled for your account or an exception occurs. Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or `UpdateAccountAuditConfiguration` to select which checks are enabled.

Type: Array of strings

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```



```
{  
  "taskId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

taskId

The ID of the on-demand audit you started.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: [a-zA-Z0-9\-]+\

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

StartThingRegistrationTask

Service: AWS IoT

Creates a bulk thing provisioning task.

Requires permission to access the [StartThingRegistrationTask](#) action.

Request Syntax

```
POST /thing-registration-tasks HTTP/1.1
Content-type: application/json
```

```
{
  "inputFileBucket": "string",
  "inputFileKey": "string",
  "roleArn": "string",
  "templateBody": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[inputFileBucket](#)

The S3 bucket that contains the input file.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 256.

Pattern: [a-zA-Z0-9._-]+

Required: Yes

[inputFileKey](#)

The name of input file within the S3 bucket. This file contains a newline delimited JSON file. Each line contains the parameter values to provision one device (thing).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Pattern: [a-zA-Z0-9!_.*'()-\/+]

Required: Yes

roleArn

The IAM role ARN that grants permission the input file.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

templateBody

The provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: [\s\S]*

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "taskId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

taskId

The bulk thing provisioning task ID.

Type: String

Length Constraints: Maximum length of 40.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

StopThingRegistrationTask

Service: AWS IoT

Cancels a bulk thing provisioning task.

Requires permission to access the [StopThingRegistrationTask](#) action.

Request Syntax

```
PUT /thing-registration-tasks/taskId/cancel HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

taskId

The bulk thing provisioning task ID.

Length Constraints: Maximum length of 40.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

TagResource

Service: AWS IoT

Adds to or modifies the tags of the given resource. Tags are metadata which can be used to manage a resource.

Requires permission to access the [TagResource](#) action.

Request Syntax

```
POST /tags HTTP/1.1
Content-type: application/json

{
  "resourceArn": "string",
  "tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[resourceArn](#)

The ARN of the resource.

Type: String

Required: Yes

[tags](#)

The new or modified tags for the resource.

Type: Array of [Tag](#) objects

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

TestAuthorization

Service: AWS IoT

Tests if a specified principal is authorized to perform an AWS IoT action on a specified resource. Use this to test and debug the authorization behavior of devices that connect to the AWS IoT device gateway.

Requires permission to access the [TestAuthorization](#) action.

Request Syntax

```
POST /test-authorization?clientId=clientId HTTP/1.1
Content-type: application/json
```

```
{
  "authInfos": [
    {
      "actionType": "string",
      "resources": [ "string" ]
    }
  ],
  "cognitoIdentityPoolId": "string",
  "policyNamesToAdd": [ "string" ],
  "policyNamesToSkip": [ "string" ],
  "principal": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[clientId](#)

The MQTT client ID.

Request Body

The request accepts the following data in JSON format.

authInfos

A list of authorization info objects. Simulating authorization will create a response for each authInfo object in the list.

Type: Array of [AuthInfo](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: Yes

cognitoIdentityPoolId

The Cognito identity pool ID.

Type: String

Required: No

policyNamesToAdd

When testing custom authorization, the policies specified here are treated as if they are attached to the principal being authorized.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: No

policyNamesToSkip

When testing custom authorization, the policies specified here are treated as if they are not attached to the principal being authorized.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: No

principal

The principal. Valid principals are CertificateArn (arn:aws:iot:region:accountId:cert/certificateId) and CognitoId (region:id).

Type: String

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "authResults": [
    {
      "allowed": {
        "policies": [
          {
            "policyArn": "string",
            "policyName": "string"
          }
        ]
      },
      "authDecision": "string",
      "authInfo": {
        "actionType": "string",
        "resources": [ "string" ]
      },
      "denied": {
        "explicitDeny": {
          "policies": [
            {
              "policyArn": "string",
              "policyName": "string"
            }
          ]
        },
        "implicitDeny": {
          "policies": [
            {
              "policyArn": "string",
```

```
        "policyName": "string"
      }
    ]
  },
  "missingContextValues": [ "string" ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

authResults

The authentication results.

Type: Array of [AuthResult](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

TestInvokeAuthorizer

Service: AWS IoT

Tests a custom authorization behavior by invoking a specified custom authorizer. Use this to test and debug the custom authorization behavior of devices that connect to the AWS IoT device gateway.

Requires permission to access the [TestInvokeAuthorizer](#) action.

Request Syntax

```
POST /authorizer/authorizerName/test HTTP/1.1
Content-type: application/json
```

```
{
  "httpContext": {
    "headers": {
      "string" : "string"
    },
    "queryString": "string"
  },
  "mqttContext": {
    "clientId": "string",
    "password": blob,
    "username": "string"
  },
  "tlsContext": {
    "serverName": "string"
  },
  "token": "string",
  "tokenSignature": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[authorizerName](#)

The custom authorizer name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=, @- ]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

httpContext

Specifies a test HTTP authorization request.

Type: [HttpContext](#) object

Required: No

mqttContext

Specifies a test MQTT authorization request.

Type: [MqttContext](#) object

Required: No

tlsContext

Specifies a test TLS authorization request.

Type: [TlsContext](#) object

Required: No

token

The token returned by your custom authentication service.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 6144.

Pattern: `[\s\S]*`

Required: No

tokenSignature

The signature made with the token and your custom authentication service's private key. This value must be Base-64-encoded.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2560.

Pattern: `[A-Za-z0-9+/]{0,2}`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "disconnectAfterInSeconds": number,
  "isAuthenticated": boolean,
  "policyDocuments": [ "string" ],
  "principalId": "string",
  "refreshAfterInSeconds": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

disconnectAfterInSeconds

The number of seconds after which the connection is terminated.

Type: Integer

isAuthenticated

True if the token is authenticated, otherwise false.

Type: Boolean

policyDocuments

IAM policy documents.

Type: Array of strings

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: `[\s\S]*`

principalId

The principal ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9]+`

refreshAfterInSeconds

The number of seconds after which the temporary credentials are refreshed.

Type: Integer

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

InvalidResponseException

The response is invalid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

TransferCertificate

Service: AWS IoT

Transfers the specified certificate to the specified AWS account.

Requires permission to access the [TransferCertificate](#) action.

You can cancel the transfer until it is accepted by the recipient.

No notification is sent to the transfer destination's account. The caller is responsible for notifying the transfer target.

The certificate being transferred must not be in the ACTIVE state. You can use the [UpdateCertificate](#) action to deactivate it.

The certificate must not have any policies attached to it. You can use the [DetachPolicy](#) action to detach them.

Customer managed key behavior: When you use a customer managed key to encrypt your data and then transfer the certificate to a customer in a different account using the `TransferCertificate` operation, the certificates will no longer be encrypted by their customer managed key configuration. During the transfer process, certificates are encrypted using AWS IoT Core owned keys.

While a certificate is in the **PENDING_TRANSFER** state, it's always protected by AWS IoT Core owned keys, regardless of the customer managed key configuration of either the source or destination account.

Once the transfer is completed through [AcceptCertificateTransfer](#), [RejectCertificateTransfer](#), or [CancelCertificateTransfer](#), the certificate will be protected by the customer managed key configuration of the account that owns the certificate after the transfer operation:

- If the transfer is accepted: The certificate is encrypted by the target account's customer managed key configuration.
- If the transfer is rejected or cancelled: The certificate is protected by the source account's customer managed key configuration.

Request Syntax

```
PATCH /transfer-certificate/certificateId?targetAwsAccount=targetAwsAccount HTTP/1.1
```

```
Content-type: application/json

{
  "transferMessage": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

certificateId

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: $(0x)?[a-fA-F0-9]^+$

Required: Yes

targetAwsAccount

The AWS account.

Length Constraints: Fixed length of 12.

Pattern: $[0-9]^+$

Required: Yes

Request Body

The request accepts the following data in JSON format.

transferMessage

The transfer message.

Type: String

Length Constraints: Maximum length of 128.

Pattern: $[\backslash s \backslash S]^*$

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "transferredCertificateArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[transferredCertificateArn](#)

The ARN of the certificate.

Type: String

Errors

CertificateStateException

The certificate operation is not allowed.

message

The message for the exception.

HTTP Status Code: 406

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

TransferConflictException

You can't transfer the certificate because authorization policies are still attached.

message

The message for the exception.

HTTP Status Code: 409

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Service: AWS IoT

Removes the given tags (metadata) from the resource.

Requires permission to access the [UntagResource](#) action.

Request Syntax

```
POST /untag HTTP/1.1
Content-type: application/json

{
  "resourceArn": "string",
  "tagKeys": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[resourceArn](#)

The ARN of the resource.

Type: String

Required: Yes

[tagKeys](#)

A list of the keys of the tags to be removed from the resource.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^([\p{L}\p{Z}\p{N}_.: /+=\ -@] *)$`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateAccountAuditConfiguration

Service: AWS IoT

Configures or reconfigures the Device Defender audit settings for this account. Settings include how audit notifications are sent and which audit checks are enabled or disabled.

Requires permission to access the [UpdateAccountAuditConfiguration](#) action.

Request Syntax

```
PATCH /audit/configuration HTTP/1.1
Content-type: application/json

{
  "auditCheckConfigurations": {
    "string" : {
      "configuration": {
        "string" : "string"
      },
      "enabled": boolean
    }
  },
  "auditNotificationTargetConfigurations": {
    "string" : {
      "enabled": boolean,
      "roleArn": "string",
      "targetArn": "string"
    }
  },
  "roleArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

auditCheckConfigurations

Specifies which audit checks are enabled and disabled for this account. Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are currently enabled.

Some data collection might start immediately when certain checks are enabled. When a check is disabled, any data collected so far in relation to the check is deleted.

You cannot disable a check if it's used by any scheduled audit. You must first delete the check from the scheduled audit or delete the scheduled audit itself.

On the first call to `UpdateAccountAuditConfiguration`, this parameter is required and must specify at least one enabled check.

Type: String to [AuditCheckConfiguration](#) object map

Required: No

auditNotificationTargetConfigurations

Information about the targets to which audit notifications are sent.

Type: String to [AuditNotificationTarget](#) object map

Valid Keys: SNS

Required: No

roleArn

The Amazon Resource Name (ARN) of the role that grants permission to AWS IoT to access information about your devices, policies, certificates, and other items as required when performing an audit.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateAuditSuppression

Service: AWS IoT

Updates a Device Defender audit suppression.

Request Syntax

```
PATCH /audit/suppressions/update HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "checkName": "string",
  "description": "string",
  "expirationDate": number,
  "resourceIdentifier": {
    "account": "string",
    "caCertificateId": "string",
    "clientId": "string",
    "cognitoIdentityPoolId": "string",
    "deviceCertificateArn": "string",
    "deviceCertificateId": "string",
    "iamRoleArn": "string",
    "issuerCertificateIdentifier": {
      "issuerCertificateSerialNumber": "string",
      "issuerCertificateSubject": "string",
      "issuerId": "string"
    },
    "policyVersionIdentifier": {
      "policyName": "string",
      "policyVersionId": "string"
    },
    "roleAliasArn": "string"
  },
  "suppressIndefinitely": boolean
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

checkName

An audit check name. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: String

Required: Yes

description

The description of the audit suppression.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\p{Graph}\x20]*`

Required: No

expirationDate

The expiration date (epoch timestamp in seconds) that you want the suppression to adhere to.

Type: Timestamp

Required: No

resourceIdentifier

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier](#) object

Required: Yes

suppressIndefinitely

Indicates whether a suppression should exist indefinitely or not.

Type: Boolean

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateAuthorizer

Service: AWS IoT

Updates an authorizer.

Requires permission to access the [UpdateAuthorizer](#) action.

Request Syntax

```
PUT /authorizer/authorizerName HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "authorizerFunctionArn": "string",
  "enableCachingForHttp": boolean,
  "status": "string",
  "tokenKeyName": "string",
  "tokenSigningPublicKeys": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[authorizerName](#)

The authorizer name.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@- ]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

[authorizerFunctionArn](#)

The ARN of the authorizer's Lambda function.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `[\s\S]*`

Required: No

[enableCachingForHttp](#)

When `true`, the result from the authorizer's Lambda function is cached for the time specified in `refreshAfterInSeconds`. The cached result is used while the device reuses the same HTTP connection.

Type: Boolean

Required: No

[status](#)

The status of the update authorizer request.

Type: String

Valid Values: `ACTIVE` | `INACTIVE`

Required: No

[tokenKeyName](#)

The key used to extract the token from the HTTP headers.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

[tokenSigningPublicKeys](#)

The public keys used to verify the token signature.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[a-zA-Z0-9:_-]+`

Value Length Constraints: Maximum length of 5120.

Value Pattern: `[\s\S]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "authorizerArn": "string",
  "authorizerName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[authorizerArn](#)

The authorizer ARN.

Type: String

Length Constraints: Maximum length of 2048.

[authorizerName](#)

The authorizer name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@-]+`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateBillingGroup

Service: AWS IoT

Updates information about the billing group.

Requires permission to access the [UpdateBillingGroup](#) action.

Request Syntax

```
PATCH /billing-groups/billingGroupName HTTP/1.1
Content-type: application/json
```

```
{
  "billingGroupProperties": {
    "billingGroupDescription": "string"
  },
  "expectedVersion": number
}
```

URI Request Parameters

The request uses the following URI parameters.

[billingGroupName](#)

The name of the billing group.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[billingGroupProperties](#)

The properties of the billing group.

Type: [BillingGroupProperties](#) object

Required: Yes

expectedVersion

The expected version of the billing group. If the version of the billing group does not match the expected version specified in the request, the UpdateBillingGroup request is rejected with a VersionConflictException.

Type: Long

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "version": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

version

The latest version of the billing group.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateCACertificate

Service: AWS IoT

Updates a registered CA certificate.

Requires permission to access the [UpdateCACertificate](#) action.

Request Syntax

```
PUT /cacertificate/caCertificateId?
newAutoRegistrationStatus=newAutoRegistrationStatus&newStatus=newStatus HTTP/1.1
Content-type: application/json

{
  "registrationConfig": {
    "roleArn": "string",
    "templateBody": "string",
    "templateName": "string"
  },
  "removeAutoRegistration": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

[caCertificateId](#)

The CA certificate identifier.

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

[newAutoRegistrationStatus](#)

The new value for the auto registration status. Valid values are: "ENABLE" or "DISABLE".

Valid Values: ENABLE | DISABLE

[newStatus](#)

The updated status of the CA certificate.

Note: The status value REGISTER_INACTIVE is deprecated and should not be used.

Valid Values: ACTIVE | INACTIVE

Request Body

The request accepts the following data in JSON format.

registrationConfig

Information about the registration configuration.

Type: [RegistrationConfig](#) object

Required: No

removeAutoRegistration

If true, removes auto registration.

Type: Boolean

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateCertificate

Service: AWS IoT

Updates the status of the specified certificate. This operation is idempotent.

Requires permission to access the [UpdateCertificate](#) action.

Certificates must be in the ACTIVE state to authenticate devices that use a certificate to connect to AWS IoT.

Within a few minutes of updating a certificate from the ACTIVE state to any other state, AWS IoT disconnects all devices that used that certificate to connect. Devices cannot use a certificate that is not in the ACTIVE state to reconnect.

Request Syntax

```
PUT /certificates/certificateId?newStatus=newStatus HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[certificateId](#)

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: Yes

[newStatus](#)

The new status.

Note: Setting the status to PENDING_TRANSFER or PENDING_ACTIVATION will result in an exception being thrown. PENDING_TRANSFER and PENDING_ACTIVATION are statuses used internally by AWS IoT. They are not intended for developer use.

Note: The status value REGISTER_INACTIVE is deprecated and should not be used.

Valid Values: ACTIVE | INACTIVE | REVOKED | PENDING_TRANSFER | REGISTER_INACTIVE | PENDING_ACTIVATION

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

CertificateStateException

The certificate operation is not allowed.

message

The message for the exception.

HTTP Status Code: 406

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateCertificateProvider

Service: AWS IoT

Updates a certificate provider.

Requires permission to access the [UpdateCertificateProvider](#) action.

Request Syntax

```
PUT /certificate-providers/certificateProviderName HTTP/1.1
Content-type: application/json

{
  "accountDefaultForOperations": [ "string" ],
  "lambdaFunctionArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[certificateProviderName](#)

The name of the certificate provider.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@- ]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

[accountDefaultForOperations](#)

A list of the operations that the certificate provider will use to generate certificates. Valid value: `CreateCertificateFromCsr`.

Type: Array of strings

Array Members: Fixed number of 1 item.

Valid Values: CreateCertificateFromCsr

Required: No

lambdaFunctionArn

The Lambda function ARN that's associated with the certificate provider.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `[\s\S]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "certificateProviderArn": "string",
  "certificateProviderName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

certificateProviderArn

The ARN of the certificate provider.

Type: String

Length Constraints: Maximum length of 2048.

certificateProviderName

The name of the certificate provider.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@- ]+`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateCommand

Service: AWS IoT

Update information about a command or mark a command for deprecation.

Request Syntax

```
PATCH /commands/commandId HTTP/1.1
Content-type: application/json

{
  "deprecated": boolean,
  "description": "string",
  "displayName": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

commandId

The unique identifier of the command to be updated.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

deprecated

A boolean that you can use to specify whether to deprecate a command.

Type: Boolean

Required: No

description

A short text description of the command.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[\p{C}]*`

Required: No

displayName

The new user-friendly name to use in the console for the command.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[\p{C}]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "commandId": "string",
  "deprecated": boolean,
  "description": "string",
  "displayName": "string",
  "lastUpdatedAt": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

commandId

The unique identifier of the command.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

deprecated

The boolean that indicates whether the command was deprecated.

Type: Boolean

description

The updated text description of the command.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [^\p{C}]*

displayName

The updated user-friendly display name in the console for the command.

Type: String

Length Constraints: Maximum length of 64.

Pattern: [^\p{C}]*

lastUpdatedAt

The date and time (epoch timestamp in seconds) when the command was last updated.

Type: Timestamp

Errors

ConflictException

The request conflicts with the current state of the resource.

resourceId

A resource with the same name already exists.

HTTP Status Code: 409

InternalServerError

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateCustomMetric

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Updates a Device Defender detect custom metric.

Requires permission to access the [UpdateCustomMetric](#) action.

Request Syntax

```
PATCH /custom-metric/metricName HTTP/1.1
Content-type: application/json

{
  "displayName": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

metricName

The name of the custom metric. Cannot be updated.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[displayName](#)

Field represents a friendly name in the console for the custom metric, it doesn't have to be unique. Don't use this name as the metric identifier in the device metric report. Can be updated.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\p{Graph}\x20]*`

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "creationDate": number,
  "displayName": "string",
  "lastModifiedDate": number,
  "metricArn": "string",
  "metricName": "string",
  "metricType": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[creationDate](#)

The creation date of the custom metric in milliseconds since epoch.

Type: Timestamp

displayName

A friendly name in the console for the custom metric

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\p{Graph}\x20]*`

lastModifiedDate

The time the custom metric was last modified in milliseconds since epoch.

Type: Timestamp

metricArn

The Amazon Resource Number (ARN) of the custom metric.

Type: String

metricName

The name of the custom metric.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

metricType

The type of the custom metric.

Important

The type `number` only takes a single metric value as an input, but while submitting the metrics value in the DeviceMetrics report, it must be passed as an array with a single value.

Type: String

Valid Values: `string-list` | `ip-address-list` | `number-list` | `number`

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateDimension

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Updates the definition for a dimension. You cannot change the type of a dimension after it is created (you can delete it and recreate it).

Requires permission to access the [UpdateDimension](#) action.

Request Syntax

```
PATCH /dimensions/name HTTP/1.1
Content-type: application/json

{
  "stringValue": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

name

A unique identifier for the dimension. Choose something that describes the type and value to make it easy to remember what it does.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

stringValues

Specifies the value or list of values for the dimension. For TOPIC_FILTER dimensions, this is a pattern used to match the MQTT topic (for example, "admin/#").

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "arn": "string",
  "creationDate": number,
  "lastModifiedDate": number,
  "name": "string",
  "stringValues": [ "string" ],
  "type": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

arn

The Amazon Resource Name (ARN) of the created dimension.

Type: String

creationDate

The date and time, in milliseconds since epoch, when the dimension was initially created.

Type: Timestamp

lastModifiedDate

The date and time, in milliseconds since epoch, when the dimension was most recently updated.

Type: Timestamp

name

A unique identifier for the dimension.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

stringValues

The value or list of values used to scope the dimension. For example, for topic filters, this is the pattern used to match the MQTT topic name.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 256.

type

The type of the dimension.

Type: String

Valid Values: TOPIC_FILTER

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateDomainConfiguration

Service: AWS IoT

Updates values stored in the domain configuration. Domain configurations for default endpoints can't be updated.

Requires permission to access the [UpdateDomainConfiguration](#) action.

Request Syntax

```
PUT /domainConfigurations/domainConfigurationName HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "applicationProtocol": "string",
  "authenticationType": "string",
  "authorizerConfig": {
    "allowAuthorizerOverride": boolean,
    "defaultAuthorizerName": "string"
  },
  "clientCertificateConfig": {
    "clientCertificateCallbackArn": "string"
  },
  "domainConfigurationStatus": "string",
  "removeAuthorizerConfig": boolean,
  "serverCertificateConfig": {
    "enableOCSPCheck": boolean,
    "ocspAuthorizedResponderArn": "string",
    "ocspLambdaArn": "string"
  },
  "tlsConfig": {
    "securityPolicy": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[domainConfigurationName](#)

The name of the domain configuration to be updated.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w. : - ]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

applicationProtocol

An enumerated string that specifies the application-layer protocol.

- SECURE_MQTT - MQTT over TLS.
- MQTT_WSS - MQTT over WebSocket.
- HTTPS - HTTP over TLS.
- DEFAULT - Use a combination of port and Application Layer Protocol Negotiation (ALPN) to specify application_layer protocol. For more information, see [Device communication protocols](#).

Type: String

Valid Values: SECURE_MQTT | MQTT_WSS | HTTPS | DEFAULT

Required: No

authenticationType

An enumerated string that specifies the authentication type.

- CUSTOM_AUTH_X509 - Use custom authentication and authorization with additional details from the X.509 client certificate.
- CUSTOM_AUTH - Use custom authentication and authorization. For more information, see [Custom authentication and authorization](#).
- AWS_X509 - Use X.509 client certificates without custom authentication and authorization. For more information, see [X.509 client certificates](#).
- AWS_SIGV4 - Use AWS Signature Version 4. For more information, see [IAM users, groups, and roles](#).

- **DEFAULT** - Use a combination of port and Application Layer Protocol Negotiation (ALPN) to specify authentication type. For more information, see [Device communication protocols](#).

Type: String

Valid Values: CUSTOM_AUTH_X509 | CUSTOM_AUTH | AWS_X509 | AWS_SIGV4 | DEFAULT

Required: No

[**authorizerConfig**](#)

An object that specifies the authorization service for a domain.

Type: [AuthorizerConfig](#) object

Required: No

[**clientCertificateConfig**](#)

An object that specifies the client certificate configuration for a domain.

Type: [ClientCertificateConfig](#) object

Required: No

[**domainConfigurationStatus**](#)

The status to which the domain configuration should be updated.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

[**removeAuthorizerConfig**](#)

Removes the authorization configuration from a domain.

Type: Boolean

Required: No

[**serverCertificateConfig**](#)

The server certificate configuration.

Type: [ServerCertificateConfig](#) object

Required: No

[tlsConfig](#)

An object that specifies the TLS configuration for a domain.

Type: [TlsConfig](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "domainConfigurationArn": "string",
  "domainConfigurationName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[domainConfigurationArn](#)

The ARN of the domain configuration that was updated.

Type: String

[domainConfigurationName](#)

The name of the domain configuration that was updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w. : - ]+`

Errors

CertificateValidationException

The certificate is invalid.

message

Additional information about the exception.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateDynamicThingGroup

Service: AWS IoT

Updates a dynamic thing group.

Requires permission to access the [UpdateDynamicThingGroup](#) action.

Request Syntax

```
PATCH /dynamic-thing-groups/thingGroupName HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "expectedVersion": number,
  "indexName": "string",
  "queryString": "string",
  "queryVersion": "string",
  "thingGroupProperties": {
    "attributePayload": {
      "attributes": {
        "string" : "string"
      },
      "merge": boolean
    },
    "thingGroupDescription": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingGroupName](#)

The name of the dynamic thing group to update.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

expectedVersion

The expected version of the dynamic thing group to update.

Type: Long

Required: No

indexName

The dynamic thing group index to update.

Note

Currently one index is supported: AWS_Things.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

queryString

The dynamic thing group search query string to update.

Type: String

Length Constraints: Minimum length of 1.

Required: No

queryVersion

The dynamic thing group query version to update.

Note

Currently one query version is supported: "2017-09-30". If not specified, the query version defaults to this value.

Type: String

Required: No

thingGroupProperties

The dynamic thing group properties to update.

Type: [ThingGroupProperties](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "version": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

version

The dynamic thing group version.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidQueryException

The query is invalid.

message

The message for the exception.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateEncryptionConfiguration

Service: AWS IoT

Updates the encryption configuration. By default, AWS IoT Core encrypts your data at rest using AWS owned keys. AWS IoT Core also supports symmetric customer managed keys from AWS Key Management Service (AWS KMS). With customer managed keys, you create, own, and manage the KMS keys in your AWS account.

Before using this API, you must set up permissions for AWS IoT Core to access AWS KMS. For more information, see [Data encryption at rest](#) in the *AWS IoT Core Developer Guide*.

Request Syntax

```
PATCH /encryption-configuration HTTP/1.1
Content-type: application/json
```

```
{
  "encryptionType": "string",
  "kmsAccessRoleArn": "string",
  "kmsKeyArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

encryptionType

The type of the KMS key.

Type: String

Valid Values: CUSTOMER_MANAGED_KMS_KEY | AWS_OWNED_KMS_KEY

Required: Yes

kmsAccessRoleArn

The Amazon Resource Name (ARN) of the IAM role assumed by AWS IoT Core to call AWS KMS on behalf of the customer.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

kmsKeyArn

The ARN of the customer managed KMS key.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateEventConfigurations

Service: AWS IoT

Updates the event configurations.

Requires permission to access the [UpdateEventConfigurations](#) action.

Request Syntax

```
PATCH /event-configurations HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "eventConfigurations": {
    "string" : {
      "Enabled": boolean
    }
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[eventConfigurations](#)

The new event configuration values.

Type: String to [Configuration](#) object map

Valid Keys: THING | THING_GROUP | THING_TYPE | THING_GROUP_MEMBERSHIP | THING_GROUP_HIERARCHY | THING_TYPE_ASSOCIATION | JOB | JOB_EXECUTION | POLICY | CERTIFICATE | CA_CERTIFICATE

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateFleetMetric

Service: AWS IoT

Updates the data for a fleet metric.

Requires permission to access the [UpdateFleetMetric](#) action.

Request Syntax

```
PATCH /fleet-metric/metricName HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "aggregationField": "string",
  "aggregationType": {
    "name": "string",
    "values": [ "string" ]
  },
  "description": "string",
  "expectedVersion": number,
  "indexName": "string",
  "period": number,
  "queryString": "string",
  "queryVersion": "string",
  "unit": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[metricName](#)

The name of the fleet metric to update.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_\-\.]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

aggregationField

The field to aggregate.

Type: String

Length Constraints: Minimum length of 1.

Required: No

aggregationType

The type of the aggregation query.

Type: [AggregationType](#) object

Required: No

description

The description of the fleet metric.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: `[\p{Graph}\x20]*`

Required: No

expectedVersion

The expected version of the fleet metric record in the registry.

Type: Long

Required: No

indexName

The name of the index to search.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

period

The time in seconds between fleet metric emissions. Range [60(1 min), 86400(1 day)] and must be multiple of 60.

Type: Integer

Valid Range: Minimum value of 60. Maximum value of 86400.

Required: No

queryString

The search query string.

Type: String

Length Constraints: Minimum length of 1.

Required: No

queryVersion

The version of the query.

Type: String

Required: No

unit

Used to support unit transformation such as milliseconds to seconds. The unit must be supported by [CW metric](#).

Type: String

Valid Values: Seconds | Microseconds | Milliseconds | Bytes | Kilobytes | Megabytes | Gigabytes | Terabytes | Bits | Kilobits | Megabits | Gigabits | Terabits | Percent | Count | Bytes/Second | Kilobytes/Second | Megabytes/Second | Gigabytes/Second | Terabytes/Second | Bits/Second |

Kilobits/Second | Megabits/Second | Gigabits/Second | Terabits/Second |
Count/Second | None

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

IndexNotReadyException

The index is not ready.

message

The message for the exception.

HTTP Status Code: 400

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidAggregationException

The aggregation is invalid.

HTTP Status Code: 400

InvalidQueryException

The query is invalid.

message

The message for the exception.

HTTP Status Code: 400

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateIndexingConfiguration

Service: AWS IoT

Updates the search configuration.

Requires permission to access the [UpdateIndexingConfiguration](#) action.

Request Syntax

POST /indexing/config HTTP/1.1

Content-type: application/json

```
{
  "thingGroupIndexingConfiguration": {
    "customFields": [
      {
        "name": "string",
        "type": "string"
      }
    ],
    "managedFields": [
      {
        "name": "string",
        "type": "string"
      }
    ],
    "thingGroupIndexingMode": "string"
  },
  "thingIndexingConfiguration": {
    "customFields": [
      {
        "name": "string",
        "type": "string"
      }
    ],
    "deviceDefenderIndexingMode": "string",
    "filter": {
      "connectivity": {
        "includeSocketInformation": [ "string" ]
      },
      "geoLocations": [
        {
          "name": "string",
```

```
        "order": "string"
      },
    ],
    "namedShadowNames": [ "string" ],
  },
  "managedFields": [
    {
      "name": "string",
      "type": "string"
    }
  ],
  "namedShadowIndexingMode": "string",
  "thingConnectivityIndexingMode": "string",
  "thingIndexingMode": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[thingGroupIndexingConfiguration](#)

Thing group indexing configuration.

Type: [ThingGroupIndexingConfiguration](#) object

Required: No

[thingIndexingConfiguration](#)

Thing indexing configuration.

Type: [ThingIndexingConfiguration](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateJob

Service: AWS IoT

Updates supported fields of the specified job.

Requires permission to access the [UpdateJob](#) action.

Request Syntax

```
PATCH /jobs/jobId?namespaceId=namespaceId HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "abortConfig": {
    "criteriaList": [
      {
        "action": "string",
        "failureType": "string",
        "minNumberOfExecutedThings": number,
        "thresholdPercentage": number
      }
    ]
  },
  "description": "string",
  "jobExecutionsRetryConfig": {
    "criteriaList": [
      {
        "failureType": "string",
        "numberOfRetries": number
      }
    ]
  },
  "jobExecutionsRolloutConfig": {
    "exponentialRate": {
      "baseRatePerMinute": number,
      "incrementFactor": number,
      "rateIncreaseCriteria": {
        "numberOfNotifiedThings": number,
        "numberOfSucceededThings": number
      }
    }
  },
  "maximumPerMinute": number
},
```

```
"presignedUrlConfig": {  
  "expiresInSec": number,  
  "roleArn": "string"  
},  
"timeoutConfig": {  
  "inProgressTimeoutInMinutes": number  
}  
}
```

URI Request Parameters

The request uses the following URI parameters.

jobId

The ID of the job to be updated.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

namespaceId

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

\$aws/things/*THING_NAME*/jobs/*JOB_ID*/notify-namespace-*NAMESPACE_ID*/

Note

The namespaceId feature is only supported by AWS IoT Greengrass at this time. For more information, see [Setting up AWS IoT Greengrass core devices](#).

Pattern: [a-zA-Z0-9_-]+

Request Body

The request accepts the following data in JSON format.

abortConfig

Allows you to create criteria to abort a job.

Type: [AbortConfig](#) object

Required: No

description

A short text description of the job.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: No

jobExecutionsRetryConfig

Allows you to create the criteria to retry a job.

Type: [JobExecutionsRetryConfig](#) object

Required: No

jobExecutionsRolloutConfig

Allows you to create a staged rollout of the job.

Type: [JobExecutionsRolloutConfig](#) object

Required: No

presignedUrlConfig

Configuration information for pre-signed S3 URLs.

Type: [PresignedUrlConfig](#) object

Required: No

timeoutConfig

Specifies the amount of time each device has to finish its execution of the job. The timer is started when the job execution status is set to `IN_PROGRESS`. If the job execution status is not set to another terminal state before the time expires, it will be automatically set to `TIMED_OUT`.

Type: [TimeoutConfig](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateMitigationAction

Service: AWS IoT

Updates the definition for the specified mitigation action.

Requires permission to access the [UpdateMitigationAction](#) action.

Request Syntax

```
PATCH /mitigationactions/actions/actionName HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "actionParams": {
    "addThingsToThingGroupParams": {
      "overrideDynamicGroups": boolean,
      "thingGroupNames": [ "string" ]
    },
    "enableIoTLoggingParams": {
      "logLevel": "string",
      "roleArnForLogging": "string"
    },
    "publishFindingToSnsParams": {
      "topicArn": "string"
    },
    "replaceDefaultPolicyVersionParams": {
      "templateName": "string"
    },
    "updateCACertificateParams": {
      "action": "string"
    },
    "updateDeviceCertificateParams": {
      "action": "string"
    }
  },
  "roleArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

actionName

The friendly name for the mitigation action. You cannot change the name by using `UpdateMitigationAction`. Instead, you must delete and recreate the mitigation action with the new name.

Length Constraints: Maximum length of 128.

Pattern: `[a-zA-Z0-9_-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

actionParams

Defines the type of action and the parameters for that action.

Type: [MitigationActionParams](#) object

Required: No

roleArn

The ARN of the IAM role that is used to apply the mitigation action.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "actionArn": "string",
  "actionId": "string"
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

actionArn

The ARN for the new mitigation action.

Type: String

actionId

A unique identifier for the mitigation action.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdatePackage

Service: AWS IoT

Updates the supported fields for a specific software package.

Requires permission to access the [UpdatePackage](#) and [GetIndexingConfiguration](#) actions.

Request Syntax

```
PATCH /packages/packageName?clientToken=clientToken HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "defaultVersionName": "string",
  "description": "string",
  "unsetDefaultVersion": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

[clientToken](#)

A unique case-sensitive identifier that you can provide to ensure the idempotency of the request. Don't reuse this client token if a new idempotent request is required.

Length Constraints: Minimum length of 36. Maximum length of 64.

Pattern: `\S{36,64}`

[packageName](#)

The name of the target software package.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9-_.]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

defaultVersionName

The name of the default package version.

Note: You cannot name a `defaultVersion` and set `unsetDefaultVersion` equal to `true` at the same time.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9-_.]+`

Required: No

description

The package description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: `^[^\p{C}]+`

Required: No

unsetDefaultVersion

Indicates whether you want to remove the named default package version from the software package. Set as `true` to remove the default package version.

Note: You cannot name a `defaultVersion` and set `unsetDefaultVersion` equal to `true` at the same time.

Type: Boolean

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictException

The request conflicts with the current state of the resource.

resourceId

A resource with the same name already exists.

HTTP Status Code: 409

InternalServerErrorException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdatePackageConfiguration

Service: AWS IoT

Updates the software package configuration.

Requires permission to access the [UpdatePackageConfiguration](#) and [iam:PassRole](#) actions.

Request Syntax

```
PATCH /package-configuration?clientToken=clientToken HTTP/1.1
Content-type: application/json

{
  "versionUpdateByJobsConfig": {
    "enabled": boolean,
    "roleArn": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[clientToken](#)

A unique case-sensitive identifier that you can provide to ensure the idempotency of the request. Don't reuse this client token if a new idempotent request is required.

Length Constraints: Minimum length of 36. Maximum length of 64.

Pattern: `\S{36,64}`

Request Body

The request accepts the following data in JSON format.

[versionUpdateByJobsConfig](#)

Configuration to manage job's package version reporting. This updates the thing's reserved named shadow that the job targets.

Type: [VersionUpdateByJobsConfig](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictException

The request conflicts with the current state of the resource.

resourceId

A resource with the same name already exists.

HTTP Status Code: 409

InternalServerError

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdatePackageVersion

Service: AWS IoT

Updates the supported fields for a specific package version.

Requires permission to access the [UpdatePackageVersion](#) and [GetIndexingConfiguration](#) actions.

Request Syntax

```
PATCH /packages/packageName/versions/versionName?clientToken=clientToken HTTP/1.1
Content-type: application/json
```

```
{
  "action": "string",
  "artifact": {
    "s3Location": {
      "bucket": "string",
      "key": "string",
      "version": "string"
    }
  },
  "attributes": {
    "string" : "string"
  },
  "description": "string",
  "recipe": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[clientToken](#)

A unique case-sensitive identifier that you can provide to ensure the idempotency of the request. Don't reuse this client token if a new idempotent request is required.

Length Constraints: Minimum length of 36. Maximum length of 64.

Pattern: `\S{36,64}`

[packageName](#)

The name of the associated software package.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9-_.]+

Required: Yes

versionName

The name of the target package version.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-_.]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

action

The status that the package version should be assigned. For more information, see [Package version lifecycle](#).

Type: String

Valid Values: PUBLISH | DEPRECATE

Required: No

artifact

The various components that make up a software package version.

Type: [PackageVersionArtifact](#) object

Required: No

attributes

Metadata that can be used to define a package version's configuration. For example, the Amazon S3 file location, configuration options that are being sent to the device or fleet.

Note: Attributes can be updated only when the package version is in a draft state.

The combined size of all the attributes on a package version is limited to 3KB.

Type: String to string map

Key Length Constraints: Minimum length of 1.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Minimum length of 1.

Value Pattern: [^\p{C}]+

Required: No

description

The package version description.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Pattern: [^\p{C}]+

Required: No

recipe

The inline job document associated with a software package version used for a quick job deployment.

Type: String

Length Constraints: Maximum length of 3072.

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictException

The request conflicts with the current state of the resource.

resourceId

A resource with the same name already exists.

HTTP Status Code: 409

InternalServerErrorException

Internal error from the service that indicates an unexpected error or that the service is unavailable.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

ValidationException

The request is not valid.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateProvisioningTemplate

Service: AWS IoT

Updates a provisioning template.

Requires permission to access the [UpdateProvisioningTemplate](#) action.

Request Syntax

```
PATCH /provisioning-templates/templateName HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "defaultVersionId": number,
  "description": "string",
  "enabled": boolean,
  "preProvisioningHook": {
    "payloadVersion": "string",
    "targetArn": "string"
  },
  "provisioningRoleArn": "string",
  "removePreProvisioningHook": boolean
}
```

URI Request Parameters

The request uses the following URI parameters.

[templateName](#)

The name of the provisioning template.

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

Required: Yes

Request Body

The request accepts the following data in JSON format.

defaultVersionId

The ID of the default provisioning template version.

Type: Integer

Required: No

description

The description of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[^\p{C}]*`

Required: No

enabled

True to enable the provisioning template, otherwise false.

Type: Boolean

Required: No

preProvisioningHook

Updates the pre-provisioning hook template. Only supports template of type FLEET_PROVISIONING. For more information about provisioning template types, see [type](#).

Type: [ProvisioningHook](#) object

Required: No

provisioningRoleArn

The ARN of the role associated with the provisioning template. This IoT role grants permission to provision a device.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

[removePreProvisioningHook](#)

Removes pre-provisioning hook template.

Type: Boolean

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateRoleAlias

Service: AWS IoT

Updates a role alias.

Requires permission to access the [UpdateRoleAlias](#) action.

Important

The value of [credentialDurationSeconds](#) must be less than or equal to the maximum session duration of the IAM role that the role alias references. For more information, see [Modifying a role maximum session duration \(AWS API\)](#) from the AWS Identity and Access Management User Guide.

Request Syntax

```
PUT /role-aliases/roleAlias HTTP/1.1
Content-type: application/json

{
  "credentialDurationSeconds": number,
  "roleArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[roleAlias](#)

The role alias to update.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

credentialDurationSeconds

The number of seconds the credential will be valid.

This value must be less than or equal to the maximum session duration of the IAM role that the role alias references.

Type: Integer

Valid Range: Minimum value of 900. Maximum value of 43200.

Required: No

roleArn

The role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
```

```
{
  "roleAlias": "string",
  "roleAliasArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

roleAlias

The role alias.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=, @- ]+`

roleAliasArn

The role alias ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateScheduledAudit

Service: AWS IoT

Updates a scheduled audit, including which checks are performed and how often the audit takes place.

Requires permission to access the [UpdateScheduledAudit](#) action.

Request Syntax

```
PATCH /audit/scheduledaudits/scheduledAuditName HTTP/1.1
Content-type: application/json

{
  "dayOfMonth": "string",
  "dayOfWeek": "string",
  "frequency": "string",
  "targetCheckNames": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

[scheduledAuditName](#)

The name of the scheduled audit. (Max. 128 chars)

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[dayOfMonth](#)

The day of the month on which the scheduled audit takes place. This can be 1 through 31 or LAST. This field is required if the `frequency` parameter is set to MONTHLY. If days 29-31 are

specified, and the month does not have that many days, the audit takes place on the "LAST" day of the month.

Type: String

Pattern: `^([1-9]|[12][0-9]|3[01])$|^LAST$`

Required: No

dayOfWeek

The day of the week on which the scheduled audit takes place. This can be one of SUN, MON, TUE, WED, THU, FRI, or SAT. This field is required if the "frequency" parameter is set to WEEKLY or BIWEEKLY.

Type: String

Valid Values: SUN | MON | TUE | WED | THU | FRI | SAT

Required: No

frequency

How often the scheduled audit takes place, either DAILY, WEEKLY, BIWEEKLY, or MONTHLY. The start time of each audit is determined by the system.

Type: String

Valid Values: DAILY | WEEKLY | BIWEEKLY | MONTHLY

Required: No

targetCheckNames

Which checks are performed during the scheduled audit. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: Array of strings

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "scheduledAuditArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[scheduledAuditArn](#)

The ARN of the scheduled audit.

Type: String

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateSecurityProfile

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Updates a Device Defender security profile.

Requires permission to access the [UpdateSecurityProfile](#) action.

Request Syntax

PATCH /security-profiles/*securityProfileName*?expectedVersion=*expectedVersion* HTTP/1.1
Content-type: application/json

```
{
  "additionalMetricsToRetain": [ "string" ],
  "additionalMetricsToRetainV2": [
    {
      "exportMetric": boolean,
      "metric": "string",
      "metricDimension": {
        "dimensionName": "string",
        "operator": "string"
      }
    }
  ],
  "alertTargets": {
    "string": {
      "alertTargetArn": "string",
      "roleArn": "string"
    }
  },
  "behaviors": [
    {
      "criteria": {
```

```

    "comparisonOperator": "string",
    "consecutiveDatapointsToAlarm": number,
    "consecutiveDatapointsToClear": number,
    "durationSeconds": number,
    "mlDetectionConfig": {
        "confidenceLevel": "string"
    },
    "statisticalThreshold": {
        "statistic": "string"
    },
    "value": {
        "cids": [ "string" ],
        "count": number,
        "number": number,
        "numbers": [ number ],
        "ports": [ number ],
        "strings": [ "string" ]
    }
},
"exportMetric": boolean,
"metric": "string",
"metricDimension": {
    "dimensionName": "string",
    "operator": "string"
},
"name": "string",
"suppressAlerts": boolean
}
],
"deleteAdditionalMetricsToRetain": boolean,
"deleteAlertTargets": boolean,
"deleteBehaviors": boolean,
"deleteMetricsExportConfig": boolean,
"metricsExportConfig": {
    "mqttTopic": "string",
    "roleArn": "string"
},
"securityProfileDescription": "string"
}

```

URI Request Parameters

The request uses the following URI parameters.

expectedVersion

The expected version of the security profile. A new version is generated whenever the security profile is updated. If you specify a value that is different from the actual version, a `VersionConflictException` is thrown.

securityProfileName

The name of the security profile you want to update.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

additionalMetricsToRetain

This parameter has been deprecated.

Please use [UpdateSecurityProfile:additionalMetricsToRetainV2](#) instead.

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here. Can be used with custom metrics; cannot be used with dimensions.

Type: Array of strings

Required: No

additionalMetricsToRetainV2

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here. Can be used with custom metrics; cannot be used with dimensions.

Type: Array of [MetricToRetain](#) objects

Required: No

alertTargets

Where the alerts are sent. (Alerts are always sent to the console.)

Type: String to [AlertTarget](#) object map

Valid Keys: SNS

Required: No

behaviors

Specifies the behaviors that, when violated by a device (thing), cause an alert.

Type: Array of [Behavior](#) objects

Array Members: Maximum number of 100 items.

Required: No

deleteAdditionalMetricsToRetain

If true, delete all `additionalMetricsToRetain` defined for this security profile. If any `additionalMetricsToRetain` are defined in the current invocation, an exception occurs.

Type: Boolean

Required: No

deleteAlertTargets

If true, delete all `alertTargets` defined for this security profile. If any `alertTargets` are defined in the current invocation, an exception occurs.

Type: Boolean

Required: No

deleteBehaviors

If true, delete all `behaviors` defined for this security profile. If any `behaviors` are defined in the current invocation, an exception occurs.

Type: Boolean

Required: No

deleteMetricsExportConfig

Set the value as true to delete metrics export related configurations.

Type: Boolean

Required: No

metricsExportConfig

Specifies the MQTT topic and role ARN required for metric export.

Type: [MetricsExportConfig](#) object

Required: No

securityProfileDescription

A description of the security profile.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\p{Graph}\x20]*`

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "additionalMetricsToRetain": [ "string" ],
  "additionalMetricsToRetainV2": [
    {
      "exportMetric": boolean,
      "metric": "string",
      "metricDimension": {
        "dimensionName": "string",
        "operator": "string"
      }
    }
  ],
}
```



```

    "alertTargets": {
      "string": {
        "alertTargetArn": "string",
        "roleArn": "string"
      }
    },
    "behaviors": [
      {
        "criteria": {
          "comparisonOperator": "string",
          "consecutiveDatapointsToAlarm": number,
          "consecutiveDatapointsToClear": number,
          "durationSeconds": number,
          "mlDetectionConfig": {
            "confidenceLevel": "string"
          },
          "statisticalThreshold": {
            "statistic": "string"
          },
          "value": {
            "cids": [ "string" ],
            "count": number,
            "number": number,
            "numbers": [ number ],
            "ports": [ number ],
            "strings": [ "string" ]
          }
        },
        "exportMetric": boolean,
        "metric": "string",
        "metricDimension": {
          "dimensionName": "string",
          "operator": "string"
        },
        "name": "string",
        "suppressAlerts": boolean
      }
    ],
    "creationDate": number,
    "lastModifiedDate": number,
    "metricsExportConfig": {
      "mqttTopic": "string",
      "roleArn": "string"
    },
  },

```

```
"securityProfileArn": "string",  
"securityProfileDescription": "string",  
"securityProfileName": "string",  
"version": number  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

additionalMetricsToRetain

This parameter has been deprecated.

Please use [UpdateSecurityProfile:additionalMetricsToRetainV2](#) instead.

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the security profile's behaviors, but it is also retained for any metric specified here.

Type: Array of strings

additionalMetricsToRetainV2

A list of metrics whose data is retained (stored). By default, data is retained for any metric used in the profile's behaviors, but it is also retained for any metric specified here. Can be used with custom metrics; cannot be used with dimensions.

Type: Array of [MetricToRetain](#) objects

alertTargets

Where the alerts are sent. (Alerts are always sent to the console.)

Type: String to [AlertTarget](#) object map

Valid Keys: SNS

behaviors

Specifies the behaviors that, when violated by a device (thing), cause an alert.

Type: Array of [Behavior](#) objects

Array Members: Maximum number of 100 items.

creationDate

The time the security profile was created.

Type: Timestamp

lastModifiedDate

The time the security profile was last modified.

Type: Timestamp

metricsExportConfig

Specifies the MQTT topic and role ARN required for metric export.

Type: [MetricsExportConfig](#) object

securityProfileArn

The ARN of the security profile that was updated.

Type: String

securityProfileDescription

The description of the security profile.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\p{Graph}\x20]*`

securityProfileName

The name of the security profile that was updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

version

The updated version of the security profile.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateStream

Service: AWS IoT

Updates an existing stream. The stream version will be incremented by one.

Requires permission to access the [UpdateStream](#) action.

Request Syntax

```
PUT /streams/streamId HTTP/1.1
Content-type: application/json

{
  "description": "string",
  "files": [
    {
      "fileId": number,
      "s3Location": {
        "bucket": "string",
        "key": "string",
        "version": "string"
      }
    }
  ],
  "roleArn": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[streamId](#)

The stream ID.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

description

The description of the stream.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: No

files

The files associated with the stream.

Type: Array of [StreamFile](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

roleArn

An IAM role that allows the IoT service principal assumes to access your S3 files.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "description": "string",
```

```
"streamArn": "string",  
"streamId": "string",  
"streamVersion": number  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

description

A description of the stream.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

streamArn

The stream ARN.

Type: String

streamId

The stream ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_-]+`

streamVersion

The stream version.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

LimitExceededException

A limit has been exceeded.

message

The message for the exception.

HTTP Status Code: 410

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateThing

Service: AWS IoT

Updates the data for a thing.

Requires permission to access the [UpdateThing](#) action.

Request Syntax

```
PATCH /things/thingName HTTP/1.1
Content-type: application/json

{
  "attributePayload": {
    "attributes": {
      "string" : "string"
    },
    "merge": boolean
  },
  "expectedVersion": number,
  "removeThingType": boolean,
  "thingTypeName": "string"
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingName](#)

The name of the thing to update.

You can't change a thing's name. To change a thing's name, you must create a new thing, give it the new name, and then delete the old thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

Request Body

The request accepts the following data in JSON format.

attributePayload

A list of thing attributes, a JSON string containing name-value pairs. For example:

```
{\"attributes\": {\"name1\": \"value2\"}}
```

This data is used to add new attributes or update existing attributes.

Type: [AttributePayload](#) object

Required: No

expectedVersion

The expected version of the thing record in the registry. If the version of the record in the registry does not match the expected version specified in the request, the `UpdateThing` request is rejected with a `VersionConflictException`.

Type: Long

Required: No

removeThingType

Remove a thing type association. If **true**, the association is removed.

Type: Boolean

Required: No

thingTypeName

The name of the thing type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateThingGroup

Service: AWS IoT

Update a thing group.

Requires permission to access the [UpdateThingGroup](#) action.

Request Syntax

```
PATCH /thing-groups/thingGroupName HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "expectedVersion": number,
  "thingGroupProperties": {
    "attributePayload": {
      "attributes": {
        "string" : "string"
      },
      "merge": boolean
    },
    "thingGroupDescription": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingGroupName](#)

The thing group to update.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

expectedVersion

The expected version of the thing group. If this does not match the version of the thing group being updated, the update will fail.

Type: Long

Required: No

thingGroupProperties

The thing group properties.

Type: [ThingGroupProperties](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "version": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

version

The version of the updated thing group.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

VersionConflictException

An exception thrown when the version of an entity specified with the `expectedVersion` parameter does not match the latest version in the system.

message

The message for the exception.

HTTP Status Code: 409

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateThingGroupsForThing

Service: AWS IoT

Updates the groups to which the thing belongs.

Requires permission to access the [UpdateThingGroupsForThing](#) action.

Request Syntax

```
PUT /thing-groups/updateThingGroupsForThing HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "overrideDynamicGroups": boolean,
  "thingGroupsToAdd": [ "string" ],
  "thingGroupsToRemove": [ "string" ],
  "thingName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[overrideDynamicGroups](#)

Override dynamic thing groups with static thing groups when 10-group limit is reached. If a thing belongs to 10 thing groups, and one or more of those groups are dynamic thing groups, adding a thing to a static group removes the thing from the last dynamic group.

Type: Boolean

Required: No

[thingGroupsToAdd](#)

The groups to which the thing will be added.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingGroupsToRemove

The groups from which the thing will be removed.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingName

The thing whose group memberships will be updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateThingType

Service: AWS IoT

Updates a thing type.

Request Syntax

```
PATCH /thing-types/thingTypeName HTTP/1.1
Content-type: application/json

{
  "thingTypeProperties": {
    "mqtt5Configuration": {
      "propagatingAttributes": [
        {
          "connectionAttribute": "string",
          "thingAttribute": "string",
          "userPropertyKey": "string"
        }
      ]
    },
    "searchableAttributes": [ "string" ],
    "thingTypeDescription": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

thingTypeName

The name of a thing type.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[thingTypeProperties](#)

The ThingTypeProperties contains information about the thing type including: a thing type description, and a list of searchable thing attribute names.

Type: [ThingTypeProperties](#) object

Required: No

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateTopicRuleDestination

Service: AWS IoT

Updates a topic rule destination. You use this to change the status, endpoint URL, or confirmation URL of the destination.

Requires permission to access the [UpdateTopicRuleDestination](#) action.

Request Syntax

```
PATCH /destinations HTTP/1.1
Content-type: application/json

{
  "arn": "string",
  "status": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[arn](#)

The ARN of the topic rule destination.

Type: String

Required: Yes

[status](#)

The status of the topic rule destination. Valid values are:

IN_PROGRESS

A topic rule destination was created but has not been confirmed. You can set status to IN_PROGRESS by calling UpdateTopicRuleDestination. Calling UpdateTopicRuleDestination causes a new confirmation challenge to be sent to your confirmation endpoint.

ENABLED

Confirmation was completed, and traffic to this destination is allowed. You can set status to DISABLED by calling `UpdateTopicRuleDestination`.

DISABLED

Confirmation was completed, and traffic to this destination is not allowed. You can set status to ENABLED by calling `UpdateTopicRuleDestination`.

ERROR

Confirmation could not be completed, for example if the confirmation timed out. You can call `GetTopicRuleDestination` for details about the error. You can set status to IN_PROGRESS by calling `UpdateTopicRuleDestination`. Calling `UpdateTopicRuleDestination` causes a new confirmation challenge to be sent to your confirmation endpoint.

Type: String

Valid Values: ENABLED | IN_PROGRESS | DISABLED | ERROR | DELETING

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ConflictingResourceUpdateException

A conflicting resource update exception. This exception is thrown when two pending updates cause a conflict.

message

The message for the exception.

HTTP Status Code: 409

InternalException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ValidateSecurityProfileBehaviors

Service: AWS IoT

Note

The AWS IoT Device Defender detect feature will no longer be available to new customers starting August 31, 2026. If you would like to use the detect feature, sign up prior to August 31, 2026. To learn about alternatives to AWS IoT Device Defender detect, see [AWS IoT Device Defender detect feature availability change](#). There is no change to AWS IoT Device Defender audit availability.

Validates a Device Defender security profile behaviors specification.

Requires permission to access the [ValidateSecurityProfileBehaviors](#) action.

Request Syntax

POST /security-profile-behaviors/validate HTTP/1.1
Content-type: application/json

```
{
  "behaviors": [
    {
      "criteria": {
        "comparisonOperator": "string",
        "consecutiveDatapointsToAlarm": number,
        "consecutiveDatapointsToClear": number,
        "durationSeconds": number,
        "mlDetectionConfig": {
          "confidenceLevel": "string"
        },
        "statisticalThreshold": {
          "statistic": "string"
        },
        "value": {
          "cids": [ "string" ],
          "count": number,
          "number": number,
          "numbers": [ number ],
          "ports": [ number ],
```



```
        "strings": [ "string" ]
      },
      "exportMetric": boolean,
      "metric": "string",
      "metricDimension": {
        "dimensionName": "string",
        "operator": "string"
      },
      "name": "string",
      "suppressAlerts": boolean
    }
  ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

behaviors

Specifies the behaviors that, when violated by a device (thing), cause an alert.

Type: Array of [Behavior](#) objects

Array Members: Maximum number of 100 items.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "valid": boolean,
  "validationErrors": [
    {
```

```
    "errorMessage": "string"  
  }  
]  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

valid

True if the behaviors were valid.

Type: Boolean

validationErrors

The list of any errors found in the behaviors.

Type: Array of [ValidationError](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

AWS IoT data

The following actions are supported by AWS IoT data:

- [DeleteConnection](#)
- [DeleteThingShadow](#)
- [GetConnection](#)
- [GetRetainedMessage](#)
- [GetThingShadow](#)
- [ListNamedShadowsForThing](#)

- [ListRetainedMessages](#)
- [ListSubscriptions](#)
- [Publish](#)
- [SendDirectMessage](#)
- [UpdateThingShadow](#)

DeleteConnection

Service: AWS IoT data

Disconnects a connected MQTT client from AWS IoT Core. When you disconnect a client, AWS IoT Core closes the client's network connection and optionally cleans the session state.

Requires permission to access the [DeleteConnection](#) action.

Request Syntax

```
DELETE /connections/clientId?  
cleanSession=cleanSession&preventWillMessage=preventWillMessage HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[cleanSession](#)

Specifies whether to remove the client's persistent session state when disconnecting. Set to TRUE to delete all session information, including subscriptions and queued messages. Set to FALSE to preserve the session state for [persistent sessions](#). For clean sessions this parameter will be ignored. By default, this is set to FALSE (preserves the session state).

[clientId](#)

The unique identifier of the MQTT client to disconnect. The client ID can't start with a dollar sign (\$).

MQTT client IDs must be URL encoded (percent-encoded) when they contain characters that are not valid in HTTP requests, such as spaces, forward slashes (/), and UTF-8 characters.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[^$] . *`

Required: Yes

[preventWillMessage](#)

Controls if AWS IoT Core publishes the client's Last Will and Testament (LWT) message upon disconnection. Set to TRUE to prevent publishing the LWT message. Set to FALSE to ensure that LWT is published. By default, this is set to FALSE (LWT message is published).

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ForbiddenException

The caller isn't authorized to make the request.

HTTP Status Code: 403

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteThingShadow

Service: AWS IoT data

Deletes the shadow for the specified thing.

Requires permission to access the [DeleteThingShadow](#) action.

For more information, see [DeleteThingShadow](#) in the AWS IoT Developer Guide.

Request Syntax

```
DELETE /things/thingName/shadow?name=shadowName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

shadowName

The name of the shadow.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [*a-zA-Z0-9:_-*]+

thingName

The name of the thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [*a-zA-Z0-9:_-*]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```


payload

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following as the HTTP body.

payload

The state information, in JSON format.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

message

The message for the exception.

HTTP Status Code: 405

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

UnsupportedDocumentEncodingException

The document encoding is not supported.

message

The message for the exception.

HTTP Status Code: 415

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetConnection

Service: AWS IoT data

Retrieves connection information for the specified MQTT client.

Requires permission to access the [GetConnection](#) action.

Request Syntax

```
GET /connections/clientId?includeSocketInformation=includeSocketInformation HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

clientId

The unique identifier of the MQTT client to retrieve connection information. The client ID can't start with a dollar sign (\$).

MQTT client IDs must be URL encoded (percent-encoded) when they contain characters that are not valid in HTTP requests, such as spaces, forward slashes (/), and UTF-8 characters.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[^$] . *`

Required: Yes

includeSocketInformation

Specifies if socket information (sourcePort, targetPort, sourceIp, targetIp) should be included in the GetConnection response. Set to TRUE to include socket information. Set to FALSE to omit socket information. By default, this is set to FALSE. See the [developer guide](#) for how to authorize this parameter.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "cleanSession": boolean,
  "clientId": "string",
  "connected": boolean,
  "connectedSince": number,
  "disconnectedSince": number,
  "disconnectReason": "string",
  "keepAliveDuration": number,
  "sessionExpiry": number,
  "sourceIp": "string",
  "sourcePort": number,
  "targetIp": "string",
  "targetPort": number,
  "thingName": "string",
  "vpcEndpointId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[cleanSession](#)

Indicates whether the client is using a clean session. Returns `true` for clean sessions or `false` for persistent sessions.

Type: Boolean

[clientId](#)

The unique identifier of the MQTT client. This is the same client ID that was used when the client established the connection.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[^$] . *`

[connected](#)

The connection state of the client. Returns `true` if the client is currently connected, or `false` if the client is not connected.

Type: Boolean

[connectedSince](#)

Unix timestamp (in milliseconds) indicating when the client connected. Present only when `connected` is `true`.

Type: Long

[disconnectedSince](#)

Unix timestamp (in milliseconds) indicating when the client disconnected. Present only when `connected` is `false`. This information is available for 30 minutes after the client disconnects.

Type: Long

[disconnectReason](#)

The reason for the last disconnection, if the client is currently disconnected. See the [developer guide](#) for valid disconnect reasons.

Type: String

[keepAliveDuration](#)

The keep-alive interval in seconds that the client specified when establishing the connection.

Type: Integer

[sessionExpiry](#)

The session expiry interval in seconds for the MQTT client connection. This is configured by the user. This value indicates how long the session will remain active after the client disconnects.

Type: Long

[sourceIp](#)

The IP address of the client that initiated the connection.

Type: String

sourcePort

The client's source port.

Type: Integer

targetIp

The IP address of the AWS IoT Core endpoint that the client connected to. For clients connected to VPC endpoints, this is the private IP address of the network interface the client is connected to.

Type: String

targetPort

The port number of the AWS IoT Core endpoint that the client connected to.

Type: Integer

thingName

The name of the thing associated with the principal of the MQTT client, if applicable.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

vpcEndpointId

The ID of the VPC endpoint. Present for clients connected to IoT Core via a [VPC endpoint](#).

Type: String

Errors

ForbiddenException

The caller isn't authorized to make the request.

HTTP Status Code: 403

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetRetainedMessage

Service: AWS IoT data

Gets the details of a single retained message for the specified topic.

This action returns the message payload of the retained message, which can incur messaging costs. To list only the topic names of the retained messages, call [ListRetainedMessages](#).

Requires permission to access the [GetRetainedMessage](#) action.

For more information about messaging costs, see [AWS IoT Core pricing - Messaging](#).

Request Syntax

```
GET /retainedMessage/topic HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

topic

The topic name of the retained message to retrieve.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "lastModifiedTime": number,
  "payload": blob,
  "qos": number,
  "topic": "string",
  "userProperties": blob
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

lastModifiedTime

The Epoch date and time, in milliseconds, when the retained message was stored by AWS IoT.

Type: Long

payload

The Base64-encoded message payload of the retained message body.

Type: Base64-encoded binary data object

qos

The quality of service (QoS) level used to publish the retained message.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1.

topic

The topic name to which the retained message was published.

Type: String

userProperties

A base64-encoded JSON string that includes an array of JSON objects, or null if the retained message doesn't include any user properties.

The following example `userProperties` parameter is a JSON string that represents two user properties. Note that it will be base64-encoded:

```
[{"deviceName": "alpha"}, {"deviceCnt": "45"}]
```

Type: Base64-encoded binary data object

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

message

The message for the exception.

HTTP Status Code: 405

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetThingShadow

Service: AWS IoT data

Gets the shadow for the specified thing.

Requires permission to access the [GetThingShadow](#) action.

For more information, see [GetThingShadow](#) in the AWS IoT Developer Guide.

Request Syntax

```
GET /things/thingName/shadow?name=shadowName HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

shadowName

The name of the shadow.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [$\$$ a-zA-Z0-9:_-]+

thingName

The name of the thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

payload

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following as the HTTP body.

payload

The state information, in JSON format.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

message

The message for the exception.

HTTP Status Code: 405

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

UnsupportedDocumentEncodingException

The document encoding is not supported.

message

The message for the exception.

HTTP Status Code: 415

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListNamedShadowsForThing

Service: AWS IoT data

Lists the shadows for the specified thing.

Requires permission to access the [ListNamedShadowsForThing](#) action.

Request Syntax

```
GET /api/things/shadow/ListNamedShadowsForThing/thingName?  
nextToken=nextToken&pageSize=pageSize HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[nextToken](#)

The token to retrieve the next set of results.

[pageSize](#)

The result page size.

Valid Range: Minimum value of 1. Maximum value of 100.

[thingName](#)

The name of the thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{
  "nextToken": "string",
  "results": [ "string" ],
  "timestamp": number
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken](#)

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

[results](#)

The list of shadows for the specified thing.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [[\\$a-zA-Z0-9:_-](#)]+

[timestamp](#)

The Epoch date and time the response was generated by AWS IoT.

Type: Long

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

message

The message for the exception.

HTTP Status Code: 405

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListRetainedMessages

Service: AWS IoT data

Lists summary information about the retained messages stored for the account.

This action returns only the topic names of the retained messages. It doesn't return any message payloads. Although this action doesn't return a message payload, it can still incur messaging costs.

To get the message payload of a retained message, call [GetRetainedMessage](#) with the topic name of the retained message.

Requires permission to access the [ListRetainedMessages](#) action.

For more information about messaging costs, see [AWS IoT Core pricing - Messaging](#).

Request Syntax

```
GET /retainedMessage?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at one time.

Valid Range: Minimum value of 1. Maximum value of 200.

[nextToken](#)

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "nextToken": "string",
  "retainedTopics": [
    {
      "lastModifiedTime": number,
      "payloadSize": number,
      "qos": number,
      "topic": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[nextToken](#)

The token for the next set of results, or null if there are no additional results.

Type: String

[retainedTopics](#)

A summary list the account's retained messages. The information returned doesn't include the message payloads of the retained messages.

Type: Array of [RetainedMessageSummary](#) objects

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

message

The message for the exception.

HTTP Status Code: 405

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListSubscriptions

Service: AWS IoT data

Returns a list of all subscriptions for MQTT clients with active sessions, including offline clients with persistent sessions.

Requires permission to access the [ListSubscriptions](#) action.

Request Syntax

```
GET /connections/clientId/subscriptions?maxResults=maxResults&nextToken=nextToken
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

clientId

The unique identifier of the MQTT client to list subscriptions for. The client ID can't start with a dollar sign (\$).

MQTT client IDs must be URL encoded (percent-encoded) when they contain characters that are not valid in HTTP requests, such as spaces, forward slashes (/), and UTF-8 characters.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[^$].*`

Required: Yes

maxResults

The maximum number of subscriptions to return in a single request. By default, this is set to 20.

Valid Range: Minimum value of 1. Maximum value of 200.

nextToken

To retrieve the next set of results, the `nextToken` value from a previous response; otherwise **null** to receive the first set of results.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "subscriptions": [
    {
      "qos": number,
      "topicFilter": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token to use to get the next set of results, or **null** if there are no additional results.

Type: String

subscriptions

A list of topic filters and their associated Quality of Service (QoS) levels that the client is subscribed to.

Type: Array of [SubscriptionSummary](#) objects

Errors

ForbiddenException

The caller isn't authorized to make the request.

HTTP Status Code: 403

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 429

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

Publish

Service: AWS IoT data

Publishes an MQTT message.

Requires permission to access the [Publish](#) action.

For more information about MQTT messages, see [MQTT Protocol](#) in the AWS IoT Developer Guide.

For more information about messaging costs, see [AWS IoT Core pricing - Messaging](#).

Request Syntax

```
POST /topics/topic?
contentType=contentType&messageExpiry=messageExpiry&qos=qos&responseTopic=responseTopic&retain=
HTTP/1.1
x-amz-mqtt5-user-properties: userProperties
x-amz-mqtt5-payload-format-indicator: payloadFormatIndicator
x-amz-mqtt5-correlation-data: correlationData

payload
```

URI Request Parameters

The request uses the following URI parameters.

[contentType](#)

A UTF-8 encoded string that describes the content of the publishing message.

[correlationData](#)

The base64-encoded binary data used by the sender of the request message to identify which request the response message is for when it's received. `correlationData` is an HTTP header value in the API.

[messageExpiry](#)

A user-defined integer value that represents the message expiry interval in seconds. If absent, the message doesn't expire. For more information about the limits of `messageExpiry`, see [AWS IoT Core message broker and protocol limits and quotas](#) from the AWS Reference Guide.

payloadFormatIndicator

An Enum string value that indicates whether the payload is formatted as UTF-8. `payloadFormatIndicator` is an HTTP header value in the API.

Valid Values: `UNSPECIFIED_BYTES` | `UTF8_DATA`

qos

The Quality of Service (QoS) level. The default QoS level is 0.

Valid Range: Minimum value of 0. Maximum value of 1.

responseTopic

A UTF-8 encoded string that's used as the topic name for a response message. The response topic is used to describe the topic which the receiver should publish to as part of the request-response flow. The topic must not contain wildcard characters.

retain

A Boolean value that determines whether to set the RETAIN flag when the message is published.

Setting the RETAIN flag causes the message to be retained and sent to new subscribers to the topic.

Valid values: `true` | `false`

Default value: `false`

topic

The name of the MQTT topic.

Required: Yes

userProperties

A JSON string that contains an array of JSON objects. If you don't use AWS SDK or AWS CLI, you must encode the JSON string to base64 format before adding it to the HTTP header. `userProperties` is an HTTP header value in the API.

The following example `userProperties` parameter is a JSON string which represents two User Properties. Note that it needs to be base64-encoded:

```
[{"deviceName": "alpha"}, {"deviceCnt": "45"}]
```

Request Body

The request accepts the following binary data.

payload

The message body. MQTT accepts text, binary, and empty (null) message payloads.

Publishing an empty (null) payload with **retain** = true deletes the retained message identified by **topic** from AWS IoT Core.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

message

The message for the exception.

HTTP Status Code: 405

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

SendDirectMessage

Service: AWS IoT data

Sends an MQTT message directly to a specific client identified by its client ID.

SendDirectMessage targets a single client ID. The receiving client does not need to subscribe to the topic, but the receiver's policy must allow `iot:Receive` on the specified topic.

Requires permission to access the [SendDirectMessage](#) action.

For more information about messaging costs, see [AWS IoT Core pricing](#).

Request Syntax

```
POST /connections/clientId/messages?
confirmation=confirmation&contentType=contentType&responseTopic=responseTopic&timeout=timeout&t
HTTP/1.1
x-amz-mqtt5-user-properties: userProperties
x-amz-mqtt5-payload-format-indicator: payloadFormatIndicator
x-amz-mqtt5-correlation-data: correlationData

payload
```

URI Request Parameters

The request uses the following URI parameters.

clientId

The unique identifier of the MQTT client to send the message to.

Client IDs must not exceed 128 characters and can't start with a dollar sign (\$). MQTT client IDs must be URL encoded (percent-encoded) when they contain characters that are not valid in HTTP requests, such as spaces, forward slashes (/), and UTF-8 characters. For more information, see [AWS IoT Core message broker and protocol limits and quotas](#).

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[^$].*`

Required: Yes

confirmation

A Boolean value that specifies whether to wait for delivery confirmation from the receiving client.

When set to `true`, the API delivers the message at QoS 1 and waits for the client to send a delivery confirmation (PUBACK) before returning a successful response. If delivery confirmation is not received within the specified timeout period, the API returns HTTP 504.

When set to `false`, the API delivers the message at QoS 0 and returns after AWS IoT Core attempts to deliver the message.

Valid values: `true` | `false`

Default value: `false`

contentType

The MQTT5 content type property forwarded to the receiving client (for example, `application/json`).

correlationData

The base64-encoded binary data used by the sender of the request message to identify which request the response message is for when it's received. `correlationData` is an HTTP header value in the API.

payloadFormatIndicator

An Enum string value that indicates whether the payload is formatted as UTF-8. `payloadFormatIndicator` is an HTTP header value in the API.

Valid Values: `UNSPECIFIED_BYTES` | `UTF8_DATA`

responseTopic

A UTF-8 encoded string that's used as the topic name for a response message. The response topic describes the topic which the receiver should publish to as part of the request-response flow. The topic must not contain wildcard characters. For more information, see [AWS IoT Core message broker and protocol limits and quotas](#).

timeout

An integer that represents the maximum time, in seconds, to wait for a delivery confirmation (PUBACK) from the receiving client after the message has been delivered. This parameter is

only used when `confirmation` is set to `true`. If `confirmation` is `false`, this parameter is ignored.

The total API response time may be higher than this value due to internal processing. Set your HTTP client timeout to a value greater than this parameter.

Valid range: 1 to 15 seconds.

Default value: 5 seconds.

topic

The topic of the outbound MQTT Publish message to the receiving client. For more information, see [AWS IoT Core message broker and protocol limits and quotas](#).

Required: Yes

userProperties

A JSON string that contains an array of JSON objects. If you don't use AWS SDK or AWS CLI, you must encode the JSON string to base64 format before adding it to the HTTP header. `userProperties` is an HTTP header value in the API.

For MQTT 3.1.1 clients, user properties are silently dropped.

The following example `userProperties` parameter is a JSON string which represents two User Properties. Note that it needs to be base64-encoded:

```
[{"deviceName": "alpha"}, {"deviceCnt": "45"}]
```

Request Body

The request accepts the following binary data.

payload

The message body. MQTT accepts text, binary, and empty (null) message payloads.

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{  
  "message": "string",  
  "traceId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[message](#)

The status message indicating the result of the operation.

Type: String

[traceId](#)

A unique identifier for the request. Include this value when contacting AWS Support for troubleshooting.

Type: String

Errors

ForbiddenException

The caller isn't authorized to make the request.

HTTP Status Code: 403

GatewayTimeoutException

The delivery confirmation was not received from the client within the specified timeout period.

message

The message for the exception.

HTTP Status Code: 504

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

RequestEntityTooLargeException

The payload exceeds the maximum size allowed.

message

The message for the exception.

HTTP Status Code: 413

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateThingShadow

Service: AWS IoT data

Updates the shadow for the specified thing.

Requires permission to access the [UpdateThingShadow](#) action.

For more information, see [UpdateThingShadow](#) in the AWS IoT Developer Guide.

Request Syntax

```
POST /things/thingName/shadow?name=shadowName HTTP/1.1
```

payload

URI Request Parameters

The request uses the following URI parameters.

shadowName

The name of the shadow.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [$\$$ a-zA-Z0-9:_-]+

thingName

The name of the thing.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following binary data.

[payload](#)

The state information, in JSON format.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
payload
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The response returns the following as the HTTP body.

[payload](#)

The state information, in JSON format.

Errors

ConflictException

The specified version does not match the version of the document.

message

The message for the exception.

HTTP Status Code: 409

InternalFailureException

An unexpected error has occurred.

message

The message for the exception.

HTTP Status Code: 500

InvalidRequestException

The request is not valid.

message

The message for the exception.

HTTP Status Code: 400

MethodNotAllowedException

The specified combination of HTTP verb and URI is not supported.

message

The message for the exception.

HTTP Status Code: 405

RequestEntityTooLargeException

The payload exceeds the maximum size allowed.

message

The message for the exception.

HTTP Status Code: 413

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message for the exception.

HTTP Status Code: 429

UnauthorizedException

You are not authorized to perform this operation.

message

The message for the exception.

HTTP Status Code: 401

UnsupportedDocumentEncodingException

The document encoding is not supported.

message

The message for the exception.

HTTP Status Code: 415

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

AWS IoT jobs data

The following actions are supported by AWS IoT jobs data:

- [DescribeJobExecution](#)
- [GetPendingJobExecutions](#)
- [StartCommandExecution](#)
- [StartNextPendingJobExecution](#)
- [UpdateJobExecution](#)

DescribeJobExecution

Service: AWS IoT jobs data

Gets details of a job execution.

Requires permission to access the [DescribeJobExecution](#) action.

Request Syntax

```
GET /things/thingName/jobs/jobId?  
executionNumber=executionNumber&includeJobDocument=includeJobDocument HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[executionNumber](#)

Optional. A number that identifies a particular job execution on a particular device. If not specified, the latest job execution is returned.

[includeJobDocument](#)

Optional. Unless set to false, the response contains the job document. The default is true.

[jobId](#)

The unique identifier assigned to this job when it was created.

Pattern: `[a-zA-Z0-9_-]+|^\\$next`

Required: Yes

[thingName](#)

The thing name associated with the device the job execution is running on.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9: _-]+`

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "execution": {
    "approximateSecondsBeforeTimedOut": number,
    "executionNumber": number,
    "jobDocument": "string",
    "jobId": "string",
    "lastUpdatedAt": number,
    "queuedAt": number,
    "startedAt": number,
    "status": "string",
    "statusDetails": {
      "string" : "string"
    },
    "thingName": "string",
    "versionNumber": number
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

execution

Contains data about a job execution.

Type: [JobExecution](#) object

Errors

CertificateValidationException

The certificate is invalid.

message

Additional information about the exception.

HTTP Status Code: 400

InvalidRequestException

The contents of the request were invalid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

TerminalStateException

The job is in a terminal state.

HTTP Status Code: 410

ThrottlingException

The rate exceeds the limit.

message

The message associated with the exception.

payload

The payload associated with the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetPendingJobExecutions

Service: AWS IoT jobs data

Gets the list of all jobs for a thing that are not in a terminal status.

Requires permission to access the [GetPendingJobExecutions](#) action.

Request Syntax

```
GET /things/thingName/jobs HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

thingName

The name of the thing that is executing the job.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "inProgressJobs": [
    {
      "executionNumber": number,
      "jobId": "string",
      "lastUpdatedAt": number,
      "queuedAt": number,
      "startedAt": number,
```

```
    "versionNumber": number
  },
],
"queuedJobs": [
  {
    "executionNumber": number,
    "jobId": "string",
    "lastUpdatedAt": number,
    "queuedAt": number,
    "startedAt": number,
    "versionNumber": number
  }
]
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

inProgressJobs

A list of JobExecutionSummary objects with status IN_PROGRESS.

Type: Array of [JobExecutionSummary](#) objects

queuedJobs

A list of JobExecutionSummary objects with status QUEUED.

Type: Array of [JobExecutionSummary](#) objects

Errors

CertificateValidationException

The certificate is invalid.

message

Additional information about the exception.

HTTP Status Code: 400

InvalidRequestException

The contents of the request were invalid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message associated with the exception.

payload

The payload associated with the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

StartCommandExecution

Service: AWS IoT jobs data

Using the command created with the CreateCommand API, start a command execution on a specific device.

Note

The IAM permissions are derived from the `iot:StartCommandExecution` action. For more information on the IAM permissions policy statement, see [Start a command execution \(AWS CLI\) > Sample IAM policy](#).

Request Syntax

```
POST /command-executions HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "commandArn": "string",
  "executionTimeoutSeconds": number,
  "parameters": {
    "string": {
      "B": boolean,
      "BIN": blob,
      "D": number,
      "I": number,
      "L": number,
      "S": "string",
      "UL": "string"
    }
  },
  "targetArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

The client token is used to implement idempotency. It ensures that the request completes no more than one time. If you retry a request with the same token and the same parameters, the request will complete successfully. However, if you retry the request using the same token but different parameters, an HTTP 409 conflict occurs. If you omit this value, AWS SDKs will automatically generate a unique client request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `^[\x21-\x7E]+$`

Required: No

commandArn

The Amazon Resource Number (ARN) of the command. For example, `arn:aws:iot:<region>:<accountid>:command/<commandName>`

Type: String

Required: Yes

executionTimeoutSeconds

Specifies the amount of time in second the device has to finish the command execution. A timer is started as soon as the command execution is created. If the command execution status is not set to another terminal state before the timer expires, it will automatically update to `TIMED_OUT`.

Type: Long

Valid Range: Minimum value of 1.

Required: No

parameters

A list of parameters that are required by the `StartCommandExecution` API when performing the command on a device.

Type: String to [CommandParameterValue](#) object map

Map Entries: Maximum number of items.

Key Length Constraints: Minimum length of 1. Maximum length of 192.

Key Pattern: `^[. $a-zA-Z0-9_-]+$`

Required: No

[targetArn](#)

The Amazon Resource Number (ARN) of the device where the command execution is occurring.

Type: String

Length Constraints: Maximum length of 2048.

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "executionId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[executionId](#)

A unique identifier for the command execution.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Errors

ConflictException

A conflict has occurred when performing the API request.

resourceId

A conflict occurred while performing the API request on the resource ID.

HTTP Status Code: 409

InternalServerErrorException

An internal server error occurred when performing the API request.

HTTP Status Code: 500

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceQuotaExceededException

The service quota has been exceeded for this request.

HTTP Status Code: 402

ThrottlingException

The rate exceeds the limit.

message

The message associated with the exception.

payload

The payload associated with the exception.

HTTP Status Code: 400

ValidationException

A validation error occurred when performing the API request.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

StartNextPendingJobExecution

Service: AWS IoT jobs data

Gets and starts the next pending (status IN_PROGRESS or QUEUED) job execution for a thing.

Requires permission to access the [StartNextPendingJobExecution](#) action.

Request Syntax

```
PUT /things/thingName/jobs/$next HTTP/1.1
Content-type: application/json

{
  "statusDetails": {
    "string" : "string"
  },
  "stepTimeoutInMinutes": number
}
```

URI Request Parameters

The request uses the following URI parameters.

[thingName](#)

The name of the thing associated with the device.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

[statusDetails](#)

A collection of name/value pairs that describe the status of the job execution. If not specified, the statusDetails are unchanged.

The maximum length of the value in the name/value pair is 1,024 characters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[a-zA-Z0-9:_-]+`

Value Length Constraints: Minimum length of 1.

Value Pattern: `[^\p{C}]+`

Required: No

stepTimeoutInMinutes

Specifies the amount of time this device has to finish execution of this job. If the job execution status is not set to a terminal state before this timer expires, or before the timer is reset (by calling `UpdateJobExecution`, setting the status to `IN_PROGRESS`, and specifying a new timeout value in field `stepTimeoutInMinutes`) the job execution status will be automatically set to `TIMED_OUT`. Note that setting the step timeout has no effect on the in progress timeout that may have been specified when the job was created (`CreateJob` using field `timeoutConfig`).

Valid values for this parameter range from 1 to 10080 (1 minute to 7 days).

Type: Long

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "execution": {
    "approximateSecondsBeforeTimedOut": number,
    "executionNumber": number,
    "jobDocument": "string",
    "jobId": "string",
    "lastUpdatedAt": number,
```

```
"queuedAt": number,
"startedAt": number,
"status": "string",
"statusDetails": {
  "string" : "string"
},
"thingName": "string",
"versionNumber": number
}
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

execution

A JobExecution object.

Type: [JobExecution](#) object

Errors

CertificateValidationException

The certificate is invalid.

message

Additional information about the exception.

HTTP Status Code: 400

InvalidRequestException

The contents of the request were invalid.

message

The message for the exception.

HTTP Status Code: 400

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message associated with the exception.

payload

The payload associated with the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateJobExecution

Service: AWS IoT jobs data

Updates the status of a job execution.

Requires permission to access the [UpdateJobExecution](#) action.

Request Syntax

```
POST /things/thingName/jobs/jobId HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "executionNumber": number,
  "expectedVersion": number,
  "includeJobDocument": boolean,
  "includeJobExecutionState": boolean,
  "status": "string",
  "statusDetails": {
    "string" : "string"
  },
  "stepTimeoutInMinutes": number
}
```

URI Request Parameters

The request uses the following URI parameters.

[jobId](#)

The unique identifier assigned to this job when it was created.

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: Yes

[thingName](#)

The name of the thing associated with the device.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

Request Body

The request accepts the following data in JSON format.

executionNumber

Optional. A number that identifies a particular job execution on a particular device.

Type: Long

Required: No

expectedVersion

Optional. The expected current version of the job execution. Each time you update the job execution, its version is incremented. If the version of the job execution stored in Jobs does not match, the update is rejected with a VersionMismatch error, and an ErrorResponse that contains the current job execution status data is returned. (This makes it unnecessary to perform a separate DescribeJobExecution request in order to obtain the job execution status data.)

Type: Long

Required: No

includeJobDocument

Optional. When set to true, the response contains the job document. The default is false.

Type: Boolean

Required: No

includeJobExecutionState

Optional. When included and set to true, the response contains the JobExecutionState data. The default is false.

Type: Boolean

Required: No

status

The new status for the job execution (IN_PROGRESS, FAILED, SUCCESS, or REJECTED). This must be specified on every update.

Type: String

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT | REJECTED | REMOVED | CANCELED

Required: Yes

statusDetails

Optional. A collection of name/value pairs that describe the status of the job execution. If not specified, the statusDetails are unchanged.

The maximum length of the value in the name/value pair is 1,024 characters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Minimum length of 1.

Value Pattern: [^\p{C}]+

Required: No

stepTimeoutInMinutes

Specifies the amount of time this device has to finish execution of this job. If the job execution status is not set to a terminal state before this timer expires, or before the timer is reset (by again calling `UpdateJobExecution`, setting the status to IN_PROGRESS, and specifying a new timeout value in this field) the job execution status will be automatically set to TIMED_OUT. Note that setting or resetting the step timeout has no effect on the in progress timeout that may have been specified when the job was created (`CreateJob` using field `timeoutConfig`).

Valid values for this parameter range from 1 to 10080 (1 minute to 7 days). A value of -1 is also valid and will cancel the current step timer (created by an earlier use of `UpdateJobExecutionRequest`).

Type: Long

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "executionState": {
    "status": "string",
    "statusDetails": {
      "string" : "string"
    },
    "versionNumber": number
  },
  "jobDocument": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

executionState

A JobExecutionState object.

Type: [JobExecutionState](#) object

jobDocument

The contents of the Job Documents.

Type: String

Length Constraints: Maximum length of 32768.

Errors

CertificateValidationException

The certificate is invalid.

message

Additional information about the exception.

HTTP Status Code: 400

InvalidRequestException

The contents of the request were invalid.

message

The message for the exception.

HTTP Status Code: 400

InvalidStateTransitionException

An update attempted to change the job execution to a state that is invalid because of the job execution's current state (for example, an attempt to change a request in state SUCCESS to state IN_PROGRESS). In this case, the body of the error message also contains the executionState field.

HTTP Status Code: 409

ResourceNotFoundException

The specified resource does not exist.

message

The message for the exception.

HTTP Status Code: 404

ServiceUnavailableException

The service is temporarily unavailable.

message

The message for the exception.

HTTP Status Code: 503

ThrottlingException

The rate exceeds the limit.

message

The message associated with the exception.

payload

The payload associated with the exception.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

AWS IoT Core Device Advisor

The following actions are supported by AWS IoT Core Device Advisor:

- [CreateSuiteDefinition](#)
- [DeleteSuiteDefinition](#)
- [GetEndpoint](#)
- [GetSuiteDefinition](#)
- [GetSuiteRun](#)
- [GetSuiteRunReport](#)

- [ListSuiteDefinitions](#)
- [ListSuiteRuns](#)
- [ListTagsForResource](#)
- [StartSuiteRun](#)
- [StopSuiteRun](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateSuiteDefinition](#)

CreateSuiteDefinition

Service: AWS IoT Core Device Advisor

Creates a Device Advisor test suite.

Requires permission to access the [CreateSuiteDefinition](#) action.

Request Syntax

```
POST /suiteDefinitions HTTP/1.1
Content-type: application/json

{
  "clientToken": "string",
  "suiteDefinitionConfiguration": {
    "devicePermissionRoleArn": "string",
    "devices": [
      {
        "certificateArn": "string",
        "deviceRoleArn": "string",
        "thingArn": "string"
      }
    ],
    "intendedForQualification": boolean,
    "isLongDurationTest": boolean,
    "protocol": "string",
    "rootGroup": "string",
    "suiteDefinitionName": "string"
  },
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken

A unique case-sensitive identifier that you can provide to ensure the idempotency of the request. Don't reuse this client token if a new idempotent request is required.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `^[\u0021-\u007E]+$`

Required: No

suiteDefinitionConfiguration

Creates a Device Advisor test suite with suite definition configuration.

Type: [SuiteDefinitionConfiguration](#) object

Required: Yes

tags

The tags to be attached to the suite definition.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "createdAt": number,
  "suiteDefinitionArn": "string",
  "suiteDefinitionId": "string",
```



```
"suiteDefinitionName": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[createdAt](#)

The timestamp of when the test suite was created.

Type: Timestamp

[suiteDefinitionArn](#)

The Amazon Resource Name (ARN) of the test suite.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

[suiteDefinitionId](#)

The UUID of the test suite created.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

[suiteDefinitionName](#)

The suite definition name of the test suite. This is a required parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

InternalServerError

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DeleteSuiteDefinition

Service: AWS IoT Core Device Advisor

Deletes a Device Advisor test suite.

Requires permission to access the [DeleteSuiteDefinition](#) action.

Request Syntax

```
DELETE /suiteDefinitions/suiteDefinitionId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

suiteDefinitionId

Suite definition ID of the test suite to be deleted.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalServerErrorException

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetEndpoint

Service: AWS IoT Core Device Advisor

Gets information about an Device Advisor endpoint.

Request Syntax

```
GET /endpoint?
authenticationMethod=authenticationMethod&certificateArn=certificateArn&deviceRoleArn=deviceRoleArn
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

authenticationMethod

The authentication method used during the device connection.

Valid Values: X509ClientCertificate | SignatureVersion4

certificateArn

The certificate ARN of the device. This is an optional parameter.

Length Constraints: Minimum length of 20. Maximum length of 2048.

deviceRoleArn

The device role ARN of the device. This is an optional parameter.

Length Constraints: Minimum length of 20. Maximum length of 2048.

thingArn

The thing ARN of the device. This is an optional parameter.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "endpoint": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

endpoint

The response of an Device Advisor endpoint.

Type: String

Length Constraints: Minimum length of 45. Maximum length of 75.

Errors

InternalServerError

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

message

Sends a Resource Not Found Exception message.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetSuiteDefinition

Service: AWS IoT Core Device Advisor

Gets information about a Device Advisor test suite.

Requires permission to access the [GetSuiteDefinition](#) action.

Request Syntax

```
GET /suiteDefinitions/suiteDefinitionId?suiteDefinitionVersion=suiteDefinitionVersion
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[suiteDefinitionId](#)

Suite definition ID of the test suite to get.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

[suiteDefinitionVersion](#)

Suite definition version of the test suite to get.

Length Constraints: Minimum length of 2. Maximum length of 255.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "createdAt": number,
  "lastModifiedAt": number,
```



```

"latestVersion": "string",
"suiteDefinitionArn": "string",
"suiteDefinitionConfiguration": {
  "devicePermissionRoleArn": "string",
  "devices": [
    {
      "certificateArn": "string",
      "deviceRoleArn": "string",
      "thingArn": "string"
    }
  ],
  "intendedForQualification": boolean,
  "isLongDurationTest": boolean,
  "protocol": "string",
  "rootGroup": "string",
  "suiteDefinitionName": "string"
},
"suiteDefinitionId": "string",
"suiteDefinitionVersion": "string",
"tags": {
  "string" : "string"
}
}

```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

createdAt

Date (in Unix epoch time) when the suite definition was created.

Type: Timestamp

lastModifiedAt

Date (in Unix epoch time) when the suite definition was last modified.

Type: Timestamp

latestVersion

Latest suite definition version of the suite definition.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

suiteDefinitionArn

The ARN of the suite definition.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

suiteDefinitionConfiguration

Suite configuration of the suite definition.

Type: [SuiteDefinitionConfiguration](#) object

suiteDefinitionId

Suite definition ID of the suite definition.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

suiteDefinitionVersion

Suite definition version of the suite definition.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

tags

Tags attached to the suite definition.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

InternalServerError

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

message

Sends a Resource Not Found Exception message.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetSuiteRun

Service: AWS IoT Core Device Advisor

Gets information about a Device Advisor test suite run.

Requires permission to access the [GetSuiteRun](#) action.

Request Syntax

```
GET /suiteDefinitions/suiteDefinitionId/suiteRuns/suiteRunId HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[suiteDefinitionId](#)

Suite definition ID for the test suite run.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

[suiteRunId](#)

Suite run ID for the test suite run.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "endTime": number,
  "errorReason": "string",
```

```

    "startTime": number,
    "status": "string",
    "suiteDefinitionId": "string",
    "suiteDefinitionVersion": "string",
    "suiteRunArn": "string",
    "suiteRunConfiguration": {
        "parallelRun": boolean,
        "primaryDevice": {
            "certificateArn": "string",
            "deviceRoleArn": "string",
            "thingArn": "string"
        },
        "selectedTestList": [ "string" ]
    },
    "suiteRunId": "string",
    "tags": {
        "string" : "string"
    },
    "testResult": {
        "groups": [
            {
                "groupId": "string",
                "groupName": "string",
                "tests": [
                    {
                        "endTime": number,
                        "failure": "string",
                        "logUrl": "string",
                        "startTime": number,
                        "status": "string",
                        "testCaseDefinitionId": "string",
                        "testCaseDefinitionName": "string",
                        "testCaseRunId": "string",
                        "testScenarios": [
                            {
                                "failure": "string",
                                "status": "string",
                                "systemMessage": "string",
                                "testCaseScenarioId": "string",
                                "testCaseScenarioType": "string"
                            }
                        ]
                    }
                ],
                "warnings": "string"
            }
        ]
    }
}

```

```
}
  }
}
]
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

endTime

Date (in Unix epoch time) when the test suite run ended.

Type: Timestamp

errorReason

Error reason for any test suite run failure.

Type: String

startTime

Date (in Unix epoch time) when the test suite run started.

Type: Timestamp

status

Status for the test suite run.

Type: String

Valid Values: PASS | FAIL | CANCELED | PENDING | RUNNING | STOPPING | STOPPED | PASS_WITH_WARNINGS | ERROR

suiteDefinitionId

Suite definition ID for the test suite run.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

suiteDefinitionVersion

Suite definition version for the test suite run.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

suiteRunArn

The ARN of the suite run.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

suiteRunConfiguration

Suite run configuration for the test suite run.

Type: [SuiteRunConfiguration](#) object

suiteRunId

Suite run ID for the test suite run.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

tags

The tags attached to the suite run.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 256.

testResult

Test results for the test suite run.

Type: [TestResult](#) object

Errors

InternalServerError

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

message

Sends a Resource Not Found Exception message.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

GetSuiteRunReport

Service: AWS IoT Core Device Advisor

Gets a report download link for a successful Device Advisor qualifying test suite run.

Requires permission to access the [GetSuiteRunReport](#) action.

Request Syntax

```
GET /suiteDefinitions/suiteDefinitionId/suiteRuns/suiteRunId/report HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

suiteDefinitionId

Suite definition ID of the test suite.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

suiteRunId

Suite run ID of the test suite run.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "qualificationReportDownloadUrl": "string"
}
```

```
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

[qualificationReportDownloadUrl](#)

Download URL of the qualification report.

Type: String

Errors

InternalServerErrorException

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

message

Sends a Resource Not Found Exception message.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListSuiteDefinitions

Service: AWS IoT Core Device Advisor

Lists the Device Advisor test suites you have created.

Requires permission to access the [ListSuiteDefinitions](#) action.

Request Syntax

```
GET /suiteDefinitions?maxResults=maxResults&nextToken=nextToken HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at once.

Valid Range: Minimum value of 1. Maximum value of 50.

[nextToken](#)

A token used to get the next set of results.

Length Constraints: Maximum length of 2000.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "suiteDefinitionInformationList": [
    {
      "createdAt": number,
      "defaultDevices": [
```

```
{
  {
    "certificateArn": "string",
    "deviceRoleArn": "string",
    "thingArn": "string"
  },
  "intendedForQualification": boolean,
  "isLongDurationTest": boolean,
  "protocol": "string",
  "suiteDefinitionId": "string",
  "suiteDefinitionName": "string"
}
]
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token used to get the next set of results.

Type: String

Length Constraints: Maximum length of 2000.

suiteDefinitionInformationList

An array of objects that provide summaries of information about the suite definitions in the list.

Type: Array of [SuiteDefinitionInformation](#) objects

Errors

InternalServerErrorException

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListSuiteRuns

Service: AWS IoT Core Device Advisor

Lists runs of the specified Device Advisor test suite. You can list all runs of the test suite, or the runs of a specific version of the test suite.

Requires permission to access the [ListSuiteRuns](#) action.

Request Syntax

```
GET /suiteRuns?
maxResults=maxResults&nextToken=nextToken&suiteDefinitionId=suiteDefinitionId&suiteDefinitionVersion=suiteDefinitionVersion
HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[maxResults](#)

The maximum number of results to return at once.

Valid Range: Minimum value of 1. Maximum value of 50.

[nextToken](#)

A token to retrieve the next set of results.

Length Constraints: Maximum length of 2000.

[suiteDefinitionId](#)

Lists the test suite runs of the specified test suite based on suite definition ID.

Length Constraints: Minimum length of 12. Maximum length of 36.

[suiteDefinitionVersion](#)

Must be passed along with `suiteDefinitionId`. Lists the test suite runs of the specified test suite based on suite definition version.

Length Constraints: Minimum length of 2. Maximum length of 255.

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "nextToken": "string",
  "suiteRunsList": [
    {
      "createdAt": number,
      "endAt": number,
      "failed": number,
      "passed": number,
      "startedAt": number,
      "status": "string",
      "suiteDefinitionId": "string",
      "suiteDefinitionName": "string",
      "suiteDefinitionVersion": "string",
      "suiteRunId": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

A token to retrieve the next set of results.

Type: String

Length Constraints: Maximum length of 2000.

suiteRunsList

An array of objects that provide summaries of information about the suite runs in the list.

Type: Array of [SuiteRunInformation](#) objects

Errors

InternalServerError

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Service: AWS IoT Core Device Advisor

Lists the tags attached to an IoT Device Advisor resource.

Requires permission to access the [ListTagsForResource](#) action.

Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[resourceArn](#)

The resource ARN of the IoT Device Advisor resource. This can be SuiteDefinition ARN or SuiteRun ARN.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "tags": {
    "string" : "string"
  }
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

tags

The tags attached to the IoT Device Advisor resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Errors

InternalServerErrorException

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

message

Sends a Resource Not Found Exception message.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

StartSuiteRun

Service: AWS IoT Core Device Advisor

Starts a Device Advisor test suite run.

Requires permission to access the [StartSuiteRun](#) action.

Request Syntax

```
POST /suiteDefinitions/suiteDefinitionId/suiteRuns HTTP/1.1
```

Content-type: application/json

```
{
  "suiteDefinitionVersion": "string",
  "suiteRunConfiguration": {
    "parallelRun": boolean,
    "primaryDevice": {
      "certificateArn": "string",
      "deviceRoleArn": "string",
      "thingArn": "string"
    },
    "selectedTestList": [ "string" ]
  },
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[suiteDefinitionId](#)

Suite definition ID of the test suite.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[suiteDefinitionVersion](#)

Suite definition version of the test suite.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

Required: No

[suiteRunConfiguration](#)

Suite run configuration.

Type: [SuiteRunConfiguration](#) object

Required: Yes

[tags](#)

The tags to be attached to the suite run.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "createdAt": number,
  "endpoint": "string",
```

```
"suiteRunArn": "string",  
"suiteRunId": "string"  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

createdAt

Starts a Device Advisor test suite run based on suite create time.

Type: Timestamp

endpoint

The response of an Device Advisor test endpoint.

Type: String

Length Constraints: Minimum length of 45. Maximum length of 75.

suiteRunArn

Amazon Resource Name (ARN) of the started suite run.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

suiteRunId

Suite Run ID of the started suite run.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

Errors

ConflictException

Sends a Conflict Exception.

message

Sends a Conflict Exception message.

HTTP Status Code: 400

InternalServerErrorException

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

StopSuiteRun

Service: AWS IoT Core Device Advisor

Stops a Device Advisor test suite run that is currently running.

Requires permission to access the [StopSuiteRun](#) action.

Request Syntax

```
POST /suiteDefinitions/suiteDefinitionId/suiteRuns/suiteRunId/stop HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

suiteDefinitionId

Suite definition ID of the test suite run to be stopped.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

suiteRunId

Suite run ID of the test suite run to be stopped.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalServerError

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

message

Sends a Resource Not Found Exception message.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

TagResource

Service: AWS IoT Core Device Advisor

Adds to and modifies existing tags of an IoT Device Advisor resource.

Requires permission to access the [TagResource](#) action.

Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json
```

```
{
  "tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[resourceArn](#)

The resource ARN of an IoT Device Advisor resource. This can be SuiteDefinition ARN or SuiteRun ARN.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

Request Body

The request accepts the following data in JSON format.

[tags](#)

The tags to be attached to the IoT Device Advisor resource.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Value Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalServerErrorException

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

message

Sends a Resource Not Found Exception message.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Service: AWS IoT Core Device Advisor

Removes tags from an IoT Device Advisor resource.

Requires permission to access the [UntagResource](#) action.

Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

[resourceArn](#)

The resource ARN of an IoT Device Advisor resource. This can be SuiteDefinition ARN or SuiteRun ARN.

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

[tagKeys](#)

List of tag keys to remove from the IoT Device Advisor resource.

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

InternalServerErrorException

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ResourceNotFoundException

Sends a Resource Not Found exception.

message

Sends a Resource Not Found Exception message.

HTTP Status Code: 404

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UpdateSuiteDefinition

Service: AWS IoT Core Device Advisor

Updates a Device Advisor test suite.

Requires permission to access the [UpdateSuiteDefinition](#) action.

Request Syntax

```
PATCH /suiteDefinitions/suiteDefinitionId HTTP/1.1
```

```
Content-type: application/json
```

```
{
  "suiteDefinitionConfiguration": {
    "devicePermissionRoleArn": "string",
    "devices": [
      {
        "certificateArn": "string",
        "deviceRoleArn": "string",
        "thingArn": "string"
      }
    ],
    "intendedForQualification": boolean,
    "isLongDurationTest": boolean,
    "protocol": "string",
    "rootGroup": "string",
    "suiteDefinitionName": "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

[suiteDefinitionId](#)

Suite definition ID of the test suite to be updated.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: Yes

Request Body

The request accepts the following data in JSON format.

suiteDefinitionConfiguration

Updates a Device Advisor test suite with suite definition configuration.

Type: [SuiteDefinitionConfiguration](#) object

Required: Yes

Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "createdAt": number,
  "lastUpdatedAt": number,
  "suiteDefinitionArn": "string",
  "suiteDefinitionId": "string",
  "suiteDefinitionName": "string",
  "suiteDefinitionVersion": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

createdAt

Timestamp of when the test suite was created.

Type: Timestamp

lastUpdatedAt

Timestamp of when the test suite was updated.

Type: Timestamp

suiteDefinitionArn

Amazon Resource Name (ARN) of the updated test suite.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

suiteDefinitionId

Suite definition ID of the updated test suite.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

suiteDefinitionName

Updates the suite definition name. This is a required parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

suiteDefinitionVersion

Suite definition version of the updated test suite.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

Errors

InternalServerErrorException

Sends an Internal Failure exception.

message

Sends an Internal Failure Exception message.

HTTP Status Code: 500

ValidationException

Sends a validation exception.

message

Sends a Validation Exception message.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

AWS IoT Secure Tunneling

The following actions are supported by AWS IoT Secure Tunneling:

- [CloseTunnel](#)
- [DescribeTunnel](#)
- [ListTagsForResource](#)
- [ListTunnels](#)
- [OpenTunnel](#)
- [RotateTunnelAccessToken](#)
- [TagResource](#)
- [UntagResource](#)

CloseTunnel

Service: AWS IoT Secure Tunneling

Closes a tunnel identified by the unique tunnel id. When a `CloseTunnel` request is received, we close the WebSocket connections between the client and proxy server so no data can be transmitted.

Requires permission to access the [CloseTunnel](#) action.

Request Syntax

```
{
  "delete": boolean,
  "tunnelId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

[delete](#)

When set to true, AWS IoT Secure Tunneling deletes the tunnel data immediately.

Type: Boolean

Required: No

[tunnelId](#)

The ID of the tunnel to close.

Type: String

Pattern: `[a-zA-Z0-9_\-+=:]{1,128}`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ResourceNotFoundException

Thrown when an operation is attempted on a resource that does not exist.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

DescribeTunnel

Service: AWS IoT Secure Tunneling

Gets information about a tunnel identified by the unique tunnel id.

Requires permission to access the [DescribeTunnel](#) action.

Request Syntax

```
{  
  "tunnelId": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

[tunnelId](#)

The tunnel to describe.

Type: String

Pattern: [a-zA-Z0-9_\-+=:]{1,128}

Required: Yes

Response Syntax

```
{  
  "tunnel": {  
    "createdAt": number,  
    "description": "string",  
    "destinationConfig": {  
      "services": [ "string" ],  
      "thingName": "string"  
    },  
    "destinationConnectionState": {
```

```
    "lastUpdatedAt": number,
    "status": "string"
  },
  "lastUpdatedAt": number,
  "sourceConnectionState": {
    "lastUpdatedAt": number,
    "status": "string"
  },
  "status": "string",
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "timeoutConfig": {
    "maxLifetimeTimeoutMinutes": number
  },
  "tunnelArn": "string",
  "tunnelId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

tunnel

The tunnel being described.

Type: [Tunnel](#) object

Errors

ResourceNotFoundException

Thrown when an operation is attempted on a resource that does not exist.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListTagsForResource

Service: AWS IoT Secure Tunneling

Lists the tags for the specified resource.

Request Syntax

```
{  
  "resourceArn": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

resourceArn

The resource ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

Response Syntax

```
{  
  "tags": [  
    {  
      "key": "string",  
      "value": "string"  
    }  
  ]  
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

tags

The tags for the specified resource.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Errors

ResourceNotFoundException

Thrown when an operation is attempted on a resource that does not exist.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

ListTunnels

Service: AWS IoT Secure Tunneling

List all tunnels for an AWS account. Tunnels are listed by creation time in descending order, newer tunnels will be listed before older tunnels.

Requires permission to access the [ListTunnels](#) action.

Request Syntax

```
{
  "maxResults": number,
  "nextToken": "string",
  "thingName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

[maxResults](#)

The maximum number of results to return at once.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[nextToken](#)

To retrieve the next set of results, the nextToken value from a previous response; otherwise null to receive the first set of results.

Type: String

Pattern: [a-zA-Z0-9_=-]{1,4096}

Required: No

thingName

The name of the IoT thing associated with the destination device.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "tunnelSummaries": [
    {
      "createdAt": number,
      "description": "string",
      "lastUpdatedAt": number,
      "status": "string",
      "tunnelArn": "string",
      "tunnelId": "string"
    }
  ]
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

nextToken

The token to use to get the next set of results, or null if there are no additional results.

Type: String

Pattern: [a-zA-Z0-9_=-]{1,4096}

[tunnelSummaries](#)

A short description of the tunnels in an AWS account.

Type: Array of [TunnelSummary](#) objects

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

OpenTunnel

Service: AWS IoT Secure Tunneling

Creates a new tunnel, and returns two client access tokens for clients to use to connect to the AWS IoT Secure Tunneling proxy server.

Requires permission to access the [OpenTunnel](#) action.

Request Syntax

```
{
  "description": "string",
  "destinationConfig": {
    "services": [ "string" ],
    "thingName": "string"
  },
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "timeoutConfig": {
    "maxLifetimeTimeoutMinutes": number
  }
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

description

A short text description of the tunnel.

Type: String

Pattern: `[^\p{C}]{1,2048}`

Required: No

destinationConfig

The destination configuration for the OpenTunnel request.

Type: [DestinationConfig](#) object

Required: No

tags

A collection of tag metadata.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Required: No

timeoutConfig

Timeout configuration for a tunnel.

Type: [TimeoutConfig](#) object

Required: No

Response Syntax

```
{
  "destinationAccessToken": "string",
  "sourceAccessToken": "string",
  "tunnelArn": "string",
  "tunnelId": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

destinationAccessToken

The access token the destination local proxy uses to connect to AWS IoT Secure Tunneling.

Type: String

sourceAccessToken

The access token the source local proxy uses to connect to AWS IoT Secure Tunneling.

Type: String

tunnelArn

The Amazon Resource Name for the tunnel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

tunnelId

A unique alpha-numeric tunnel ID.

Type: String

Pattern: [a-zA-Z0-9_\-+=:]{1,128}

Errors

LimitExceededException

Thrown when a tunnel limit is exceeded.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

RotateTunnelAccessToken

Service: AWS IoT Secure Tunneling

Revokes the current client access token (CAT) and returns new CAT for clients to use when reconnecting to secure tunneling to access the same tunnel.

Requires permission to access the [RotateTunnelAccessToken](#) action.

Note

Rotating the CAT doesn't extend the tunnel duration. For example, say the tunnel duration is 12 hours and the tunnel has already been open for 4 hours. When you rotate the access tokens, the new tokens that are generated can only be used for the remaining 8 hours.

Request Syntax

```
{
  "clientMode": "string",
  "destinationConfig": {
    "services": [ "string" ],
    "thingName": "string"
  },
  "tunnelId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

[clientMode](#)

The mode of the client that will use the client token, which can be either the source or destination, or both source and destination.

Type: String

Valid Values: SOURCE | DESTINATION | ALL

Required: Yes

destinationConfig

The destination configuration. You can not use `DestinationConfig` with source `clientMode`.

Type: [DestinationConfig](#) object

Required: No

tunnelId

The tunnel for which you want to rotate the access tokens.

Type: String

Pattern: `[a-zA-Z0-9_\-+=:]{1,128}`

Required: Yes

Response Syntax

```
{
  "destinationAccessToken": "string",
  "sourceAccessToken": "string",
  "tunnelArn": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

destinationAccessToken

The client access token that the destination local proxy uses to connect to AWS IoT Secure Tunneling.

Type: String

sourceAccessToken

The client access token that the source local proxy uses to connect to AWS IoT Secure Tunneling.

Type: String

tunnelArn

The Amazon Resource Name for the tunnel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Errors

ResourceNotFoundException

Thrown when an operation is attempted on a resource that does not exist.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

TagResource

Service: AWS IoT Secure Tunneling

A resource tag.

Request Syntax

```
{
  "resourceArn": "string",
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

resourceArn

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

tags

The tags for the resource.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ResourceNotFoundException

Thrown when an operation is attempted on a resource that does not exist.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Service: AWS IoT Secure Tunneling

Removes a tag from a resource.

Request Syntax

```
{  
  "resourceArn": "string",  
  "tagKeys": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

resourceArn

The resource ARN.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

tagKeys

The keys of the tags to remove.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^([\p{L}\p{Z}\p{N}_.: /+=\ -@]*)$`

Required: Yes

Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

Errors

ResourceNotFoundException

Thrown when an operation is attempted on a resource that does not exist.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python \(Boto3\)](#)
- [AWS SDK for Ruby V3](#)

Data Types

The following data types are supported by AWS IoT:

- [AbortConfig](#)
- [AbortCriteria](#)
- [Action](#)
- [ActiveViolation](#)
- [AddThingsToThingGroupParams](#)
- [AggregationType](#)
- [AlertTarget](#)
- [Allowed](#)
- [AssetPropertyTimestamp](#)
- [AssetPropertyValue](#)
- [AssetPropertyVariant](#)
- [AttributePayload](#)
- [AuditCheckConfiguration](#)
- [AuditCheckDetails](#)
- [AuditFinding](#)
- [AuditMitigationActionExecutionMetadata](#)
- [AuditMitigationActionsTaskMetadata](#)
- [AuditMitigationActionsTaskTarget](#)
- [AuditNotificationTarget](#)
- [AuditSuppression](#)
- [AuditTaskMetadata](#)
- [AuthInfo](#)
- [AuthorizerConfig](#)
- [AuthorizerDescription](#)
- [AuthorizerSummary](#)
- [AuthResult](#)
- [AwsJobAbortConfig](#)

- [AwsJobAbortCriteria](#)
- [AwsJobExecutionsRolloutConfig](#)
- [AwsJobExponentialRolloutRate](#)
- [AwsJobPresignedUrlConfig](#)
- [AwsJobRateIncreaseCriteria](#)
- [AwsJobTimeoutConfig](#)
- [AwsJsonSubstitutionCommandPreprocessorConfig](#)
- [BatchConfig](#)
- [Behavior](#)
- [BehaviorCriteria](#)
- [BehaviorModelTrainingSummary](#)
- [BillingGroupMetadata](#)
- [BillingGroupProperties](#)
- [Bucket](#)
- [BucketsAggregationType](#)
- [CACertificate](#)
- [CACertificateDescription](#)
- [Certificate](#)
- [CertificateDescription](#)
- [CertificateProviderSummary](#)
- [CertificateValidity](#)
- [ClientCertificateConfig](#)
- [CloudwatchAlarmAction](#)
- [CloudwatchLogsAction](#)
- [CloudwatchMetricAction](#)
- [CodeSigning](#)
- [CodeSigningCertificateChain](#)
- [CodeSigningSignature](#)
- [CommandExecutionResult](#)
- [CommandExecutionSummary](#)

- [CommandParameter](#)
- [CommandParameterValue](#)
- [CommandParameterValueComparisonOperand](#)
- [CommandParameterValueCondition](#)
- [CommandParameterValueNumberRange](#)
- [CommandPayload](#)
- [CommandPreprocessor](#)
- [CommandSummary](#)
- [Configuration](#)
- [ConfigurationDetails](#)
- [ConnectivityFilter](#)
- [CustomCodeSigning](#)
- [Denied](#)
- [Destination](#)
- [DetectMitigationActionExecution](#)
- [DetectMitigationActionsTaskStatistics](#)
- [DetectMitigationActionsTaskSummary](#)
- [DetectMitigationActionsTaskTarget](#)
- [DocumentParameter](#)
- [DomainConfigurationSummary](#)
- [DynamoDBAction](#)
- [DynamoDBv2Action](#)
- [EffectivePolicy](#)
- [ElasticsearchAction](#)
- [EnableIoTLoggingParams](#)
- [ErrorInfo](#)
- [ExplicitDeny](#)
- [ExponentialRolloutRate](#)
- [Field](#)
- [FileLocation](#)

- [FirehoseAction](#)
- [FleetMetricNameAndArn](#)
- [GeoLocationTarget](#)
- [GroupNameAndArn](#)
- [HttpAction](#)
- [HttpActionHeader](#)
- [HttpAuthorization](#)
- [HttpContext](#)
- [HttpUrlDestinationConfiguration](#)
- [HttpUrlDestinationProperties](#)
- [HttpUrlDestinationSummary](#)
- [ImplicitDeny](#)
- [IndexingFilter](#)
- [IotAnalyticsAction](#)
- [IotEventsAction](#)
- [IotSiteWiseAction](#)
- [IssuerCertificateIdentifier](#)
- [Job](#)
- [JobExecution](#)
- [JobExecutionsRetryConfig](#)
- [JobExecutionsRolloutConfig](#)
- [JobExecutionStatusDetails](#)
- [JobExecutionSummary](#)
- [JobExecutionSummaryForJob](#)
- [JobExecutionSummaryForThing](#)
- [JobProcessDetails](#)
- [JobSummary](#)
- [JobTemplateSummary](#)
- [KafkaAction](#)
- [KafkaActionHeader](#)

- [KeyPair](#)
- [KinesisAction](#)
- [LambdaAction](#)
- [LocationAction](#)
- [LocationTimestamp](#)
- [LogEventConfiguration](#)
- [LoggingOptionsPayload](#)
- [LogTarget](#)
- [LogTargetConfiguration](#)
- [MachineLearningDetectionConfig](#)
- [MaintenanceWindow](#)
- [ManagedJobTemplateSummary](#)
- [MetricDatum](#)
- [MetricDimension](#)
- [MetricsExportConfig](#)
- [MetricToRetain](#)
- [MetricValue](#)
- [MitigationAction](#)
- [MitigationActionIdentifier](#)
- [MitigationActionParams](#)
- [Mqtt5Configuration](#)
- [MqttContext](#)
- [MqttHeaders](#)
- [NonCompliantResource](#)
- [OpenSearchAction](#)
- [OTAUpdateFile](#)
- [OTAUpdateInfo](#)
- [OTAUpdateSummary](#)
- [OutgoingCertificate](#)
- [PackageSummary](#)

- [PackageVersionArtifact](#)
- [PackageVersionSummary](#)
- [PercentPair](#)
- [Policy](#)
- [PolicyVersion](#)
- [PolicyVersionIdentifier](#)
- [PresignedUrlConfig](#)
- [PrincipalThingObject](#)
- [PropagatingAttribute](#)
- [ProvisioningHook](#)
- [ProvisioningTemplateSummary](#)
- [ProvisioningTemplateVersionSummary](#)
- [PublishFindingToSnsParams](#)
- [PutAssetPropertyValueEntry](#)
- [PutItemInput](#)
- [RateIncreaseCriteria](#)
- [RegistrationConfig](#)
- [RelatedResource](#)
- [ReplaceDefaultPolicyVersionParams](#)
- [RepublishAction](#)
- [ResourceIdentifier](#)
- [RetryCriteria](#)
- [RoleAliasDescription](#)
- [S3Action](#)
- [S3Destination](#)
- [S3Location](#)
- [SalesforceAction](#)
- [Sbom](#)
- [SbomValidationResultSummary](#)
- [ScheduledAuditMetadata](#)

- [ScheduledJobRollout](#)
- [SchedulingConfig](#)
- [SecurityProfileIdentifier](#)
- [SecurityProfileTarget](#)
- [SecurityProfileTargetMapping](#)
- [ServerCertificateConfig](#)
- [ServerCertificateSummary](#)
- [SigningProfileParameter](#)
- [SigV4Authorization](#)
- [SnsAction](#)
- [SqsAction](#)
- [StartSigningJobParameter](#)
- [StatisticalThreshold](#)
- [Statistics](#)
- [StatusReason](#)
- [StepFunctionsAction](#)
- [Stream](#)
- [StreamFile](#)
- [StreamInfo](#)
- [StreamSummary](#)
- [Tag](#)
- [TaskStatistics](#)
- [TaskStatisticsForAuditCheck](#)
- [TermsAggregation](#)
- [ThingAttribute](#)
- [ThingConnectivity](#)
- [ThingDocument](#)
- [ThingGroupDocument](#)
- [ThingGroupIndexingConfiguration](#)
- [ThingGroupMetadata](#)

- [ThingGroupProperties](#)
- [ThingIndexingConfiguration](#)
- [ThingPrincipalObject](#)
- [ThingTypeDefinition](#)
- [ThingTypeMetadata](#)
- [ThingTypeProperties](#)
- [TimeFilter](#)
- [TimeoutConfig](#)
- [TimestreamAction](#)
- [TimestreamDimension](#)
- [TimestreamTimestamp](#)
- [TlsConfig](#)
- [TlsContext](#)
- [TopicRule](#)
- [TopicRuleDestination](#)
- [TopicRuleDestinationConfiguration](#)
- [TopicRuleDestinationSummary](#)
- [TopicRuleListItem](#)
- [TopicRulePayload](#)
- [TransferData](#)
- [UpdateCACertificateParams](#)
- [UpdateDeviceCertificateParams](#)
- [UserProperty](#)
- [ValidationError](#)
- [VersionUpdateByJobsConfig](#)
- [ViolationEvent](#)
- [ViolationEventAdditionalInfo](#)
- [ViolationEventOccurrenceRange](#)
- [VpcDestinationConfiguration](#)
- [VpcDestinationProperties](#)

- [VpcDestinationSummary](#)

The following data types are supported by AWS IoT data:

- [RetainedMessageSummary](#)
- [SubscriptionSummary](#)

The following data types are supported by AWS IoT jobs data:

- [CommandParameterValue](#)
- [JobExecution](#)
- [JobExecutionState](#)
- [JobExecutionSummary](#)

The following data types are supported by AWS IoT Core Device Advisor:

- [DeviceUnderTest](#)
- [GroupResult](#)
- [SuiteDefinitionConfiguration](#)
- [SuiteDefinitionInformation](#)
- [SuiteRunConfiguration](#)
- [SuiteRunInformation](#)
- [TestCaseRun](#)
- [TestCaseScenario](#)
- [TestResult](#)

The following data types are supported by AWS IoT Secure Tunneling:

- [ConnectionState](#)
- [DestinationConfig](#)
- [Tag](#)
- [TimeoutConfig](#)
- [Tunnel](#)

- [TunnelSummary](#)

AWS IoT

The following data types are supported by AWS IoT:

- [AbortConfig](#)
- [AbortCriteria](#)
- [Action](#)
- [ActiveViolation](#)
- [AddThingsToThingGroupParams](#)
- [AggregationType](#)
- [AlertTarget](#)
- [Allowed](#)
- [AssetPropertyTimestamp](#)
- [AssetPropertyValue](#)
- [AssetPropertyVariant](#)
- [AttributePayload](#)
- [AuditCheckConfiguration](#)
- [AuditCheckDetails](#)
- [AuditFinding](#)
- [AuditMitigationActionExecutionMetadata](#)
- [AuditMitigationActionsTaskMetadata](#)
- [AuditMitigationActionsTaskTarget](#)
- [AuditNotificationTarget](#)
- [AuditSuppression](#)
- [AuditTaskMetadata](#)
- [AuthInfo](#)
- [AuthorizerConfig](#)
- [AuthorizerDescription](#)
- [AuthorizerSummary](#)

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- [AwsJobAbortConfig](#)
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- [AwsJobExecutionsRolloutConfig](#)
- [AwsJobExponentialRolloutRate](#)
- [AwsJobPresignedUrlConfig](#)
- [AwsJobRateIncreaseCriteria](#)
- [AwsJobTimeoutConfig](#)
- [AwsJsonSubstitutionCommandPreprocessorConfig](#)
- [BatchConfig](#)
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- [Bucket](#)
- [BucketsAggregationType](#)
- [CACertificate](#)
- [CACertificateDescription](#)
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- [CommandParameterValueComparisonOperand](#)
- [CommandParameterValueCondition](#)
- [CommandParameterValueNumberRange](#)
- [CommandPayload](#)
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- [Denied](#)
- [Destination](#)
- [DetectMitigationActionExecution](#)
- [DetectMitigationActionsTaskStatistics](#)
- [DetectMitigationActionsTaskSummary](#)
- [DetectMitigationActionsTaskTarget](#)
- [DocumentParameter](#)
- [DomainConfigurationSummary](#)
- [DynamoDBAction](#)
- [DynamoDBv2Action](#)
- [EffectivePolicy](#)
- [ElasticsearchAction](#)
- [EnableIoTLoggingParams](#)
- [ErrorInfo](#)
- [ExplicitDeny](#)
- [ExponentialRolloutRate](#)

- [Field](#)
- [FileLocation](#)
- [FirehoseAction](#)
- [FleetMetricNameAndArn](#)
- [GeoLocationTarget](#)
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- [HttpAction](#)
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- [IndexingFilter](#)
- [IotAnalyticsAction](#)
- [IotEventsAction](#)
- [IotSiteWiseAction](#)
- [IssuerCertificateIdentifier](#)
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- [KafkaAction](#)
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- [KinesisAction](#)
- [LambdaAction](#)
- [LocationAction](#)
- [LocationTimestamp](#)
- [LogEventConfiguration](#)
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- [OTAUpdateFile](#)
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- [PresignedUrlConfig](#)
- [PrincipalThingObject](#)
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- [PublishFindingToSnsParams](#)
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- [RateIncreaseCriteria](#)
- [RegistrationConfig](#)
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- [ReplaceDefaultPolicyVersionParams](#)
- [RepublishAction](#)
- [ResourceIdentifier](#)
- [RetryCriteria](#)
- [RoleAliasDescription](#)
- [S3Action](#)
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- [Sbom](#)

- [SbomValidationResultSummary](#)
- [ScheduledAuditMetadata](#)
- [ScheduledJobRollout](#)
- [SchedulingConfig](#)
- [SecurityProfileIdentifier](#)
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- [ServerCertificateConfig](#)
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- [SigningProfileParameter](#)
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- [SnsAction](#)
- [SqsAction](#)
- [StartSigningJobParameter](#)
- [StatisticalThreshold](#)
- [Statistics](#)
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- [StepFunctionsAction](#)
- [Stream](#)
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- [StreamInfo](#)
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- [Tag](#)
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- [ThingConnectivity](#)
- [ThingDocument](#)
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- [ThingGroupIndexingConfiguration](#)
- [ThingGroupMetadata](#)
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- [ThingPrincipalObject](#)
- [ThingTypeDefintion](#)
- [ThingTypeMetadata](#)
- [ThingTypeProperties](#)
- [TimeFilter](#)
- [TimeoutConfig](#)
- [TimestreamAction](#)
- [TimestreamDimension](#)
- [TimestreamTimestamp](#)
- [TlsConfig](#)
- [TlsContext](#)
- [TopicRule](#)
- [TopicRuleDestination](#)
- [TopicRuleDestinationConfiguration](#)
- [TopicRuleDestinationSummary](#)
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- [TopicRulePayload](#)
- [TransferData](#)
- [UpdateCACertificateParams](#)
- [UpdateDeviceCertificateParams](#)
- [UserProperty](#)
- [ValidationError](#)
- [VersionUpdateByJobsConfig](#)
- [ViolationEvent](#)
- [ViolationEventAdditionalInfo](#)
- [ViolationEventOccurrenceRange](#)

- [VpcDestinationConfiguration](#)
- [VpcDestinationProperties](#)
- [VpcDestinationSummary](#)

AbortConfig

Service: AWS IoT

The criteria that determine when and how a job abort takes place.

Contents

criteriaList

The list of criteria that determine when and how to abort the job.

Type: Array of [AbortCriteria](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AbortCriteria

Service: AWS IoT

The criteria that determine when and how a job abort takes place.

Contents

action

The type of job action to take to initiate the job abort.

Type: String

Valid Values: CANCEL

Required: Yes

failureType

The type of job execution failures that can initiate a job abort.

Type: String

Valid Values: FAILED | REJECTED | TIMED_OUT | ALL

Required: Yes

minNumberOfExecutedThings

The minimum number of things which must receive job execution notifications before the job can be aborted.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

thresholdPercentage

The minimum percentage of job execution failures that must occur to initiate the job abort.

AWS IoT Core supports up to two digits after the decimal (for example, 10.9 and 10.99, but not 10.999).

Type: Double

Valid Range: Maximum value of 100.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Action

Service: AWS IoT

Describes the actions associated with a rule.

Contents

cloudwatchAlarm

Change the state of a CloudWatch alarm.

Type: [CloudwatchAlarmAction](#) object

Required: No

cloudwatchLogs

Send data to CloudWatch Logs.

Type: [CloudwatchLogsAction](#) object

Required: No

cloudwatchMetric

Capture a CloudWatch metric.

Type: [CloudwatchMetricAction](#) object

Required: No

dynamoDB

Write to a DynamoDB table.

Type: [DynamoDBAction](#) object

Required: No

dynamoDBv2

Write to a DynamoDB table. This is a new version of the DynamoDB action. It allows you to write each attribute in an MQTT message payload into a separate DynamoDB column.

Type: [DynamoDBv2Action](#) object

Required: No

elasticsearch

Write data to an Amazon OpenSearch Service domain.

Note

The `Elasticsearch` action can only be used by existing rule actions. To create a new rule action or to update an existing rule action, use the `OpenSearch` rule action instead. For more information, see [OpenSearchAction](#).

Type: [ElasticsearchAction](#) object

Required: No

firehose

Write to an Amazon Kinesis Firehose stream.

Type: [FirehoseAction](#) object

Required: No

http

Send data to an HTTPS endpoint.

Type: [HttpAction](#) object

Required: No

iotAnalytics

Sends message data to an AWS IoT Analytics channel.

Type: [IotAnalyticsAction](#) object

Required: No

iotEvents

Sends an input to an AWS IoT Events detector.

Type: [IotEventsAction](#) object

Required: No

iotSiteWise

Sends data from the MQTT message that triggered the rule to AWS IoT SiteWise asset properties.

Type: [iotSiteWiseAction](#) object

Required: No

kafka

Send messages to an Amazon Managed Streaming for Apache Kafka (Amazon MSK) or self-managed Apache Kafka cluster.

Type: [KafkaAction](#) object

Required: No

kinesis

Write data to an Amazon Kinesis stream.

Type: [KinesisAction](#) object

Required: No

lambda

Invoke a Lambda function.

Type: [LambdaAction](#) object

Required: No

location

The Amazon Location Service rule action sends device location updates from an MQTT message to an Amazon Location tracker resource.

Type: [LocationAction](#) object

Required: No

openSearch

Write data to an Amazon OpenSearch Service domain.

Type: [OpenSearchAction](#) object

Required: No

republish

Publish to another MQTT topic.

Type: [RepublishAction](#) object

Required: No

s3

Write to an Amazon S3 bucket.

Type: [S3Action](#) object

Required: No

salesforce

Send a message to a Salesforce IoT Cloud Input Stream.

Type: [SalesforceAction](#) object

Required: No

sns

Publish to an Amazon SNS topic.

Type: [SnsAction](#) object

Required: No

sqs

Publish to an Amazon SQS queue.

Type: [SqsAction](#) object

Required: No

stepFunctions

Starts execution of a Step Functions state machine.

Type: [StepFunctionsAction](#) object

Required: No

timestream

The Timestream rule action writes attributes (measures) from an MQTT message into an Amazon Timestream table. For more information, see the [Timestream](#) topic rule action documentation.

Type: [TimestreamAction](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ActiveViolation

Service: AWS IoT

Information about an active Device Defender security profile behavior violation.

Contents

behavior

The behavior that is being violated.

Type: [Behavior](#) object

Required: No

lastViolationTime

The time the most recent violation occurred.

Type: Timestamp

Required: No

lastViolationValue

The value of the metric (the measurement) that caused the most recent violation.

Type: [MetricValue](#) object

Required: No

securityProfileName

The security profile with the behavior is in violation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingName

The name of the thing responsible for the active violation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

verificationState

The verification state of the violation (detect alarm).

Type: String

Valid Values: FALSE_POSITIVE | BENIGN_POSITIVE | TRUE_POSITIVE | UNKNOWN

Required: No

verificationStateDescription

The description of the verification state of the violation.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [^\p{Cntrl}]*

Required: No

violationEventAdditionalInfo

The details of a violation event.

Type: [ViolationEventAdditionalInfo](#) object

Required: No

violationId

The ID of the active violation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-\-]+

Required: No

violationStartTime

The time the violation started.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AddThingsToThingGroupParams

Service: AWS IoT

Parameters used when defining a mitigation action that move a set of things to a thing group.

Contents

thingGroupNames

The list of groups to which you want to add the things that triggered the mitigation action. You can add a thing to a maximum of 10 groups, but you can't add a thing to more than one group in the same hierarchy.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

overrideDynamicGroups

Specifies if this mitigation action can move the things that triggered the mitigation action even if they are part of one or more dynamic thing groups.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AggregationType

Service: AWS IoT

The type of aggregation queries.

Contents

name

The name of the aggregation type.

Type: String

Valid Values: Statistics | Percentiles | Cardinality

Required: Yes

values

A list of the values of aggregation types.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: [a-zA-Z0-9]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AlertTarget

Service: AWS IoT

A structure containing the alert target ARN and the role ARN.

Contents

alertTargetArn

The Amazon Resource Name (ARN) of the notification target to which alerts are sent.

Type: String

Required: Yes

roleArn

The ARN of the role that grants permission to send alerts to the notification target.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Allowed

Service: AWS IoT

Contains information that allowed the authorization.

Contents

policies

A list of policies that allowed the authentication.

Type: Array of [Policy](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AssetPropertyTimestamp

Service: AWS IoT

An asset property timestamp entry containing the following information.

Contents

timeInSeconds

A string that contains the time in seconds since epoch. Accepts substitution templates.

Type: String

Required: Yes

offsetInNanos

Optional. A string that contains the nanosecond time offset. Accepts substitution templates.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AssetPropertyValue

Service: AWS IoT

An asset property value entry containing the following information.

Contents

timestamp

The asset property value timestamp.

Type: [AssetPropertyTimestamp](#) object

Required: Yes

value

The value of the asset property.

Type: [AssetPropertyVariant](#) object

Required: Yes

quality

Optional. A string that describes the quality of the value. Accepts substitution templates. Must be GOOD, BAD, or UNCERTAIN.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AssetPropertyVariant

Service: AWS IoT

Contains an asset property value (of a single type).

Contents

booleanValue

Optional. A string that contains the boolean value (`true` or `false`) of the value entry. Accepts substitution templates.

Type: String

Required: No

doubleValue

Optional. A string that contains the double value of the value entry. Accepts substitution templates.

Type: String

Required: No

integerValue

Optional. A string that contains the integer value of the value entry. Accepts substitution templates.

Type: String

Required: No

stringValue

Optional. The string value of the value entry. Accepts substitution templates.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AttributePayload

Service: AWS IoT

The attribute payload.

Contents

attributes

A JSON string containing up to three key-value pair in JSON format. For example:

```
{\"attributes\":{\"string1\": \"string2\"}}
```

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: [a-zA-Z0-9_.,@/:#-]+

Value Length Constraints: Maximum length of 800.

Value Pattern: [a-zA-Z0-9_.,@/:#=\\[\\]-]*

Required: No

merge

Specifies whether the list of attributes provided in the AttributePayload is merged with the attributes stored in the registry, instead of overwriting them.

To remove an attribute, call UpdateThing with an empty attribute value.

Note

The merge attribute is only valid when calling UpdateThing or UpdateThingGroup.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditCheckConfiguration

Service: AWS IoT

Which audit checks are enabled and disabled for this account.

Contents

configuration

A structure containing the configName and corresponding configValue for configuring audit checks.

Type: String to string map

Valid Keys: CERT_AGE_THRESHOLD_IN_DAYS | CERT_EXPIRATION_THRESHOLD_IN_DAYS

Value Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

enabled

True if this audit check is enabled for this account.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditCheckDetails

Service: AWS IoT

Information about the audit check.

Contents

checkCompliant

True if the check is complete and found all resources compliant.

Type: Boolean

Required: No

checkRunStatus

The completion status of this check. One of "IN_PROGRESS", "WAITING_FOR_DATA_COLLECTION", "CANCELED", "COMPLETED_COMPLIANT", "COMPLETED_NON_COMPLIANT", or "FAILED".

Type: String

Valid Values: IN_PROGRESS | WAITING_FOR_DATA_COLLECTION | CANCELED | COMPLETED_COMPLIANT | COMPLETED_NON_COMPLIANT | FAILED

Required: No

errorCode

The code of any error encountered when this check is performed during this audit. One of "INSUFFICIENT_PERMISSIONS" or "AUDIT_CHECK_DISABLED".

Type: String

Required: No

message

The message associated with any error encountered when this check is performed during this audit.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

nonCompliantResourcesCount

The number of resources that were found noncompliant during the check.

Type: Long

Required: No

suppressedNonCompliantResourcesCount

Describes how many of the non-compliant resources created during the evaluation of an audit check were marked as suppressed.

Type: Long

Required: No

totalResourcesCount

The number of resources on which the check was performed.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditFinding

Service: AWS IoT

The findings (results) of the audit.

Contents

checkName

The audit check that generated this result.

Type: String

Required: No

findingId

A unique identifier for this set of audit findings. This identifier is used to apply mitigation tasks to one or more sets of findings.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

findingTime

The time the result (finding) was discovered.

Type: Timestamp

Required: No

isSuppressed

Indicates whether the audit finding was suppressed or not during reporting.

Type: Boolean

Required: No

nonCompliantResource

The resource that was found to be noncompliant with the audit check.

Type: [NonCompliantResource](#) object

Required: No

reasonForNonCompliance

The reason the resource was noncompliant.

Type: String

Required: No

reasonForNonComplianceCode

A code that indicates the reason that the resource was noncompliant.

Type: String

Required: No

relatedResources

The list of related resources.

Type: Array of [RelatedResource](#) objects

Required: No

severity

The severity of the result (finding).

Type: String

Valid Values: CRITICAL | HIGH | MEDIUM | LOW

Required: No

taskId

The ID of the audit that generated this result (finding).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: [a-zA-Z0-9\-\-]+

Required: No

taskStartTime

The time the audit started.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditMitigationActionExecutionMetadata

Service: AWS IoT

Returned by ListAuditMitigationActionsTask, this object contains information that describes a mitigation action that has been started.

Contents

actionId

The unique identifier for the mitigation action being applied by the task.

Type: String

Required: No

actionName

The friendly name of the mitigation action being applied by the task.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

endTime

The date and time when the task was completed or canceled. Blank if the task is still running.

Type: Timestamp

Required: No

errorCode

If an error occurred, the code that indicates which type of error occurred.

Type: String

Required: No

findingId

The unique identifier for the findings to which the task and associated mitigation action are applied.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

message

If an error occurred, a message that describes the error.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

startTime

The date and time when the task was started.

Type: Timestamp

Required: No

status

The current status of the task being executed.

Type: String

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED | SKIPPED | PENDING

Required: No

taskId

The unique identifier for the task that applies the mitigation action.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditMitigationActionsTaskMetadata

Service: AWS IoT

Information about an audit mitigation actions task that is returned by `ListAuditMitigationActionsTasks`.

Contents

startTime

The time at which the audit mitigation actions task was started.

Type: Timestamp

Required: No

taskId

The unique identifier for the task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

taskStatus

The current state of the audit mitigation actions task.

Type: String

Valid Values: `IN_PROGRESS` | `COMPLETED` | `FAILED` | `CANCELED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditMitigationActionsTaskTarget

Service: AWS IoT

Used in MitigationActionParams, this information identifies the target findings to which the mitigation actions are applied. Only one entry appears.

Contents

auditCheckToReasonCodeFilter

Specifies a filter in the form of an audit check and set of reason codes that identify the findings from the audit to which the audit mitigation actions task apply.

Type: String to array of strings map

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Required: No

auditTaskId

If the task will apply a mitigation action to findings from a specific audit, this value uniquely identifies the audit.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: [a-zA-Z0-9\ -]+

Required: No

findingIds

If the task will apply a mitigation action to one or more listed findings, this value uniquely identifies those findings.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_ -]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditNotificationTarget

Service: AWS IoT

Information about the targets to which audit notifications are sent.

Contents

enabled

True if notifications to the target are enabled.

Type: Boolean

Required: No

roleArn

The ARN of the role that grants permission to send notifications to the target.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

targetArn

The ARN of the target (SNS topic) to which audit notifications are sent.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditSuppression

Service: AWS IoT

Filters out specific findings of a Device Defender audit.

Contents

checkName

An audit check name. Checks must be enabled for your account. (Use `DescribeAccountAuditConfiguration` to see the list of all checks, including those that are enabled or use `UpdateAccountAuditConfiguration` to select which checks are enabled.)

Type: String

Required: Yes

resourceIdentifier

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier](#) object

Required: Yes

description

The description of the audit suppression.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: `[\p{Graph}\x20]*`

Required: No

expirationDate

The expiration date (epoch timestamp in seconds) that you want the suppression to adhere to.

Type: Timestamp

Required: No

suppressIndefinitely

Indicates whether a suppression should exist indefinitely or not.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuditTaskMetadata

Service: AWS IoT

The audits that were performed.

Contents

taskId

The ID of this audit.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 40.

Pattern: [a-zA-Z0-9\-]+

Required: No

taskStatus

The status of this audit. One of "IN_PROGRESS", "COMPLETED", "FAILED", or "CANCELED".

Type: String

Valid Values: IN_PROGRESS | COMPLETED | FAILED | CANCELED

Required: No

taskType

The type of this audit. One of "ON_DEMAND_AUDIT_TASK" or "SCHEDULED_AUDIT_TASK".

Type: String

Valid Values: ON_DEMAND_AUDIT_TASK | SCHEDULED_AUDIT_TASK

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuthInfo

Service: AWS IoT

A collection of authorization information.

Contents

resources

The resources for which the principal is being authorized to perform the specified action.

Type: Array of strings

Length Constraints: Maximum length of 2048.

Pattern: `[\s\S]*`

Required: Yes

actionType

The type of action for which the principal is being authorized.

Type: String

Valid Values: PUBLISH | SUBSCRIBE | RECEIVE | CONNECT

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuthorizerConfig

Service: AWS IoT

An object that specifies the authorization service for a domain.

Contents

allowAuthorizerOverride

A Boolean that specifies whether the domain configuration's authorization service can be overridden.

Type: Boolean

Required: No

defaultAuthorizerName

The name of the authorization service for a domain configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@- ]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuthorizerDescription

Service: AWS IoT

The authorizer description.

Contents

authorizerArn

The authorizer ARN.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

authorizerFunctionArn

The authorizer's Lambda function ARN.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `[\s\S]*`

Required: No

authorizerName

The authorizer name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=, @- ]+`

Required: No

creationDate

The UNIX timestamp of when the authorizer was created.

Type: Timestamp

Required: No

enableCachingForHttp

When `true`, the result from the authorizer's Lambda function is cached for the time specified in `refreshAfterInSeconds`. The cached result is used while the device reuses the same HTTP connection.

Type: Boolean

Required: No

lastModifiedDate

The UNIX timestamp of when the authorizer was last updated.

Type: Timestamp

Required: No

signingDisabled

Specifies whether AWS IoT validates the token signature in an authorization request.

Type: Boolean

Required: No

status

The status of the authorizer.

Type: String

Valid Values: ACTIVE | INACTIVE

Required: No

tokenKeyName

The key used to extract the token from the HTTP headers.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

tokenSigningPublicKeys

The public keys used to validate the token signature returned by your custom authentication service.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Maximum length of 5120.

Value Pattern: [\\s\\S]*

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuthorizerSummary

Service: AWS IoT

The authorizer summary.

Contents

authorizerArn

The authorizer ARN.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

authorizerName

The authorizer name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=, @- ]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AuthResult

Service: AWS IoT

The authorizer result.

Contents

allowed

The policies and statements that allowed the specified action.

Type: [Allowed](#) object

Required: No

authDecision

The final authorization decision of this scenario. Multiple statements are taken into account when determining the authorization decision. An explicit deny statement can override multiple allow statements.

Type: String

Valid Values: ALLOWED | EXPLICIT_DENY | IMPLICIT_DENY

Required: No

authInfo

Authorization information.

Type: [AuthInfo](#) object

Required: No

denied

The policies and statements that denied the specified action.

Type: [Denied](#) object

Required: No

missingContextValues

Contains any missing context values found while evaluating policy.

Type: Array of strings

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobAbortConfig

Service: AWS IoT

The criteria that determine when and how a job abort takes place.

Contents

abortCriteriaList

The list of criteria that determine when and how to abort the job.

Type: Array of [AwsJobAbortCriteria](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobAbortCriteria

Service: AWS IoT

The criteria that determine when and how a job abort takes place.

Contents

action

The type of job action to take to initiate the job abort.

Type: String

Valid Values: CANCEL

Required: Yes

failureType

The type of job execution failures that can initiate a job abort.

Type: String

Valid Values: FAILED | REJECTED | TIMED_OUT | ALL

Required: Yes

minNumberOfExecutedThings

The minimum number of things which must receive job execution notifications before the job can be aborted.

Type: Integer

Valid Range: Minimum value of 1.

Required: Yes

thresholdPercentage

The minimum percentage of job execution failures that must occur to initiate the job abort.

AWS IoT Core supports up to two digits after the decimal (for example, 10.9 and 10.99, but not 10.999).

Type: Double

Valid Range: Maximum value of 100.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobExecutionsRolloutConfig

Service: AWS IoT

Configuration for the rollout of OTA updates.

Contents

exponentialRate

The rate of increase for a job rollout. This parameter allows you to define an exponential rate increase for a job rollout.

Type: [AwsJobExponentialRolloutRate](#) object

Required: No

maximumPerMinute

The maximum number of OTA update job executions started per minute.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobExponentialRolloutRate

Service: AWS IoT

The rate of increase for a job rollout. This parameter allows you to define an exponential rate increase for a job rollout.

Contents

baseRatePerMinute

The minimum number of things that will be notified of a pending job, per minute, at the start of the job rollout. This is the initial rate of the rollout.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

incrementFactor

The rate of increase for a job rollout. The number of things notified is multiplied by this factor.

Type: Double

Required: Yes

rateIncreaseCriteria

The criteria to initiate the increase in rate of rollout for a job.

AWS IoT Core supports up to one digit after the decimal (for example, 1.5, but not 1.55).

Type: [AwsJobRateIncreaseCriteria](#) object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobPresignedUrlConfig

Service: AWS IoT

Configuration information for pre-signed URLs. Valid when protocols contains HTTP.

Contents

expiresInSec

How long (in seconds) pre-signed URLs are valid. Valid values are 60 - 3600, the default value is 1800 seconds. Pre-signed URLs are generated when a request for the job document is received.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobRateIncreaseCriteria

Service: AWS IoT

The criteria to initiate the increase in rate of rollout for a job.

Contents

numberOfNotifiedThings

When this number of things have been notified, it will initiate an increase in the rollout rate.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

numberOfSucceededThings

When this number of things have succeeded in their job execution, it will initiate an increase in the rollout rate.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJobTimeoutConfig

Service: AWS IoT

Specifies the amount of time each device has to finish its execution of the job. A timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the timer expires, it will be automatically set to TIMED_OUT.

Contents

inProgressTimeoutInMinutes

Specifies the amount of time, in minutes, this device has to finish execution of this job. The timeout interval can be anywhere between 1 minute and 7 days (1 to 10080 minutes). The in progress timer can't be updated and will apply to all job executions for the job. Whenever a job execution remains in the IN_PROGRESS status for longer than this interval, the job execution will fail and switch to the terminal TIMED_OUT status.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AwsJsonSubstitutionCommandPreprocessorConfig

Service: AWS IoT

Configures the command to treat the `payloadTemplate` as a JSON document for preprocessing. This preprocessor substitutes placeholders with parameter values to generate the command execution request payload.

Contents

outputFormat

Converts the command preprocessor result to the format defined by this parameter, before sending it to the device.

Type: String

Valid Values: JSON | CBOR

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BatchConfig

Service: AWS IoT

Configuration settings for batching.

Contents

batchAcrossTopics

Whether to allow batching messages from different MQTT topics into a single HTTP request. By default, only messages from the same topic are batched together. The default value is `false`.

Note

When `batchAcrossTopics` is enabled, the error payload format changes: the `topic` field moves from the top level to inside each entry in the `payloadsWithMetadata` array, since each message in the batch may originate from a different topic.

Note

Messages are always batched within the scope of the same account, rule name, target HTTP endpoint URL, and billing group. Messages that differ in any of these attributes are never combined into the same batch, regardless of the `batchAcrossTopics` setting.

Type: Boolean

Required: No

maxBatchOpenMs

The maximum amount of time (in milliseconds) that an outgoing call waits for other calls with which it batches messages of the same type. The higher the setting, the longer the latency of the batched HTTP Action will be.

Type: Integer

Valid Range: Minimum value of 5. Maximum value of 200.

Required: No

maxBatchSize

The maximum number of messages that are batched together in a single action execution.

Type: Integer

Valid Range: Minimum value of 2. Maximum value of 10.

Required: No

maxBatchSizeBytes

Maximum size of a message batch, in bytes.

Type: Integer

Valid Range: Minimum value of 100. Maximum value of 131072.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Behavior

Service: AWS IoT

A Device Defender security profile behavior.

Contents

name

The name you've given to the behavior.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

criteria

The criteria that determine if a device is behaving normally in regard to the `metric`.

Note

In the AWS IoT console, you can choose to be sent an alert through Amazon SNS when AWS IoT Device Defender detects that a device is behaving anomalously.

Type: [BehaviorCriteria](#) object

Required: No

exportMetric

Value indicates exporting metrics related to the behavior when it is true.

Type: Boolean

Required: No

metric

What is measured by the behavior.

Type: String

Required: No

metricDimension

The dimension for a metric in your behavior. For example, using a `TOPIC_FILTER` dimension, you can narrow down the scope of the metric to only MQTT topics where the name matches the pattern specified in the dimension. This can't be used with custom metrics.

Type: [MetricDimension](#) object

Required: No

suppressAlerts

Suppresses alerts.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BehaviorCriteria

Service: AWS IoT

The criteria by which the behavior is determined to be normal.

Contents

comparisonOperator

The operator that relates the thing measured (`metric`) to the criteria (containing a value or `statisticalThreshold`). Valid operators include:

- `string-list`: `in-set` and `not-in-set`
- `number-list`: `in-set` and `not-in-set`
- `ip-address-list`: `in-cidr-set` and `not-in-cidr-set`
- `number`: `less-than`, `less-than-equals`, `greater-than`, and `greater-than-equals`

Type: String

Valid Values: `less-than` | `less-than-equals` | `greater-than` | `greater-than-equals` | `in-cidr-set` | `not-in-cidr-set` | `in-port-set` | `not-in-port-set` | `in-set` | `not-in-set`

Required: No

consecutiveDatapointsToAlarm

If a device is in violation of the behavior for the specified number of consecutive datapoints, an alarm occurs. If not specified, the default is 1.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

consecutiveDatapointsToClear

If an alarm has occurred and the offending device is no longer in violation of the behavior for the specified number of consecutive datapoints, the alarm is cleared. If not specified, the default is 1.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

durationSeconds

Use this to specify the time duration over which the behavior is evaluated, for those criteria that have a time dimension (for example, NUM_MESSAGES_SENT). For a `statisticalThreshold` metric comparison, measurements from all devices are accumulated over this time duration before being used to calculate percentiles, and later, measurements from an individual device are also accumulated over this time duration before being given a percentile rank. Cannot be used with list-based metric datatypes.

Type: Integer

Required: No

mlDetectionConfig

The configuration of an ML Detect

Type: [MachineLearningDetectionConfig](#) object

Required: No

statisticalThreshold

A statistical ranking (percentile) that indicates a threshold value by which a behavior is determined to be in compliance or in violation of the behavior.

Type: [StatisticalThreshold](#) object

Required: No

value

The value to be compared with the `metric`.

Type: [MetricValue](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BehaviorModelTrainingSummary

Service: AWS IoT

The summary of an ML Detect behavior model.

Contents

behaviorName

The name of the behavior.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

datapointsCollectionPercentage

The percentage of datapoints collected.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

lastModelRefreshDate

The date the model was last refreshed.

Type: Timestamp

Required: No

modelStatus

The status of the behavior model.

Type: String

Valid Values: PENDING_BUILD | ACTIVE | EXPIRED

Required: No

securityProfileName

The name of the security profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

trainingDataCollectionStartDate

The date a training model started collecting data.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BillingGroupMetadata

Service: AWS IoT

Additional information about the billing group.

Contents

creationDate

The date the billing group was created.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BillingGroupProperties

Service: AWS IoT

The properties of a billing group.

Contents

billingGroupDescription

The description of the billing group.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[\p{Graph}\x20]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Bucket

Service: AWS IoT

A count of documents that meets a specific aggregation criteria.

Contents

count

The number of documents that have the value counted for the particular bucket.

Type: Integer

Required: No

keyValue

The value counted for the particular bucket.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

BucketsAggregationType

Service: AWS IoT

The type of bucketed aggregation performed.

Contents

termsAggregation

Performs an aggregation that will return a list of buckets. The list of buckets is a ranked list of the number of occurrences of an aggregation field value.

Type: [TermsAggregation](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CACertificate

Service: AWS IoT

A CA certificate.

Contents

certificateArn

The ARN of the CA certificate.

Type: String

Required: No

certificateId

The ID of the CA certificate.

Type: String

Length Constraints: Fixed length of 64.

Pattern: `(0x)?[a-fA-F0-9]+`

Required: No

creationDate

The date the CA certificate was created.

Type: Timestamp

Required: No

status

The status of the CA certificate.

The status value REGISTER_INACTIVE is deprecated and should not be used.

Type: String

Valid Values: ACTIVE | INACTIVE

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CACertificateDescription

Service: AWS IoT

Describes a CA certificate.

Contents

autoRegistrationStatus

Whether the CA certificate configured for auto registration of device certificates. Valid values are "ENABLE" and "DISABLE"

Type: String

Valid Values: ENABLE | DISABLE

Required: No

certificateArn

The CA certificate ARN.

Type: String

Required: No

certificateId

The CA certificate ID.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: No

certificateMode

The mode of the CA.

All the device certificates that are registered using this CA will be registered in the same mode as the CA. For more information about certificate mode for device certificates, see [certificate mode](#).

Type: String

Valid Values: DEFAULT | SNI_ONLY

Required: No

certificatePem

The CA certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\s\S]*`

Required: No

creationDate

The date the CA certificate was created.

Type: Timestamp

Required: No

customerVersion

The customer version of the CA certificate.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

generationId

The generation ID of the CA certificate.

Type: String

Required: No

lastModifiedDate

The date the CA certificate was last modified.

Type: Timestamp

Required: No

ownedBy

The owner of the CA certificate.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9] +

Required: No

status

The status of a CA certificate.

Type: String

Valid Values: ACTIVE | INACTIVE

Required: No

validity

When the CA certificate is valid.

Type: [CertificateValidity](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Certificate

Service: AWS IoT

Information about a certificate.

Contents

certificateArn

The ARN of the certificate.

Type: String

Required: No

certificateId

The ID of the certificate. (The last part of the certificate ARN contains the certificate ID.)

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: No

certificateMode

The mode of the certificate.

DEFAULT: A certificate in DEFAULT mode is either generated by AWS IoT Core or registered with an issuer certificate authority (CA) in DEFAULT mode. Devices with certificates in DEFAULT mode aren't required to send the Server Name Indication (SNI) extension when connecting to AWS IoT Core. However, to use features such as custom domains and VPC endpoints, we recommend that you use the SNI extension when connecting to AWS IoT Core.

SNI_ONLY: A certificate in SNI_ONLY mode is registered without an issuer CA. Devices with certificates in SNI_ONLY mode must send the SNI extension when connecting to AWS IoT Core.

Type: String

Valid Values: DEFAULT | SNI_ONLY

Required: No

creationDate

The date and time the certificate was created.

Type: Timestamp

Required: No

status

The status of the certificate.

The status value REGISTER_INACTIVE is deprecated and should not be used.

Type: String

Valid Values: ACTIVE | INACTIVE | REVOKED | PENDING_TRANSFER | REGISTER_INACTIVE | PENDING_ACTIVATION

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CertificateDescription

Service: AWS IoT

Describes a certificate.

Contents

caCertificateId

The certificate ID of the CA certificate used to sign this certificate.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: No

certificateArn

The ARN of the certificate.

Type: String

Required: No

certificateId

The ID of the certificate.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: No

certificateMode

The mode of the certificate.

DEFAULT: A certificate in DEFAULT mode is either generated by AWS IoT Core or registered with an issuer certificate authority (CA) in DEFAULT mode. Devices with certificates in DEFAULT

mode aren't required to send the Server Name Indication (SNI) extension when connecting to AWS IoT Core. However, to use features such as custom domains and VPC endpoints, we recommend that you use the SNI extension when connecting to AWS IoT Core.

SNI_ONLY: A certificate in SNI_ONLY mode is registered without an issuer CA. Devices with certificates in SNI_ONLY mode must send the SNI extension when connecting to AWS IoT Core.

For more information about the value for SNI extension, see [Transport security in AWS IoT](#).

Type: String

Valid Values: DEFAULT | SNI_ONLY

Required: No

certificatePem

The certificate data, in PEM format.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65536.

Pattern: `[\s\S]*`

Required: No

creationDate

The date and time the certificate was created.

Type: Timestamp

Required: No

customerVersion

The customer version of the certificate.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

generationId

The generation ID of the certificate.

Type: String

Required: No

lastModifiedDate

The date and time the certificate was last modified.

Type: Timestamp

Required: No

ownedBy

The ID of the AWS account that owns the certificate.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9]+

Required: No

previousOwnedBy

The ID of the AWS account of the previous owner of the certificate.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9]+

Required: No

status

The status of the certificate.

Type: String

Valid Values: ACTIVE | INACTIVE | REVOKED | PENDING_TRANSFER | REGISTER_INACTIVE | PENDING_ACTIVATION

Required: No

transferData

The transfer data.

Type: [TransferData](#) object

Required: No

validity

When the certificate is valid.

Type: [CertificateValidity](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CertificateProviderSummary

Service: AWS IoT

The certificate provider summary.

Contents

certificateProviderArn

The ARN of the certificate provider.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

certificateProviderName

The name of the certificate provider.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@- ]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CertificateValidity

Service: AWS IoT

When the certificate is valid.

Contents

notAfter

The certificate is not valid after this date.

Type: Timestamp

Required: No

notBefore

The certificate is not valid before this date.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ClientCertificateConfig

Service: AWS IoT

An object that specifies the client certificate configuration for a domain.

Contents

clientCertificateCallbackArn

The ARN of the Lambda function that AWS IoT invokes after mutual TLS authentication during the connection.

Type: String

Length Constraints: Maximum length of 2048.

Pattern: `[\s\S]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CloudwatchAlarmAction

Service: AWS IoT

Describes an action that updates a CloudWatch alarm.

Contents

alarmName

The CloudWatch alarm name.

Type: String

Required: Yes

roleArn

The IAM role that allows access to the CloudWatch alarm.

Type: String

Required: Yes

stateReason

The reason for the alarm change.

Type: String

Required: Yes

stateValue

The value of the alarm state. Acceptable values are: OK, ALARM, INSUFFICIENT_DATA.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CloudwatchLogsAction

Service: AWS IoT

Describes an action that sends data to CloudWatch Logs.

Contents

logGroupName

The CloudWatch log group to which the action sends data.

Type: String

Required: Yes

roleArn

The IAM role that allows access to the CloudWatch log.

Type: String

Required: Yes

batchMode

Indicates whether batches of log records will be extracted and uploaded into CloudWatch. Values include `true` or `false` (*default*).

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CloudwatchMetricAction

Service: AWS IoT

Describes an action that captures a CloudWatch metric.

Contents

metricName

The CloudWatch metric name.

Type: String

Required: Yes

metricNamespace

The CloudWatch metric namespace name.

Type: String

Required: Yes

metricUnit

The [metric unit](#) supported by CloudWatch.

Type: String

Required: Yes

metricValue

The CloudWatch metric value.

Type: String

Required: Yes

roleArn

The IAM role that allows access to the CloudWatch metric.

Type: String

Required: Yes

metricTimestamp

An optional [Unix timestamp](#).

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodeSigning

Service: AWS IoT

Describes the method to use when code signing a file.

Contents

awsSignerJobId

The ID of the `AWSSignerJob` which was created to sign the file.

Type: String

Required: No

customCodeSigning

A custom method for code signing a file.

Type: [CustomCodeSigning](#) object

Required: No

startSigningJobParameter

Describes the code-signing job.

Type: [StartSigningJobParameter](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodeSigningCertificateChain

Service: AWS IoT

Describes the certificate chain being used when code signing a file.

Contents

certificateName

The name of the certificate.

Type: String

Required: No

inlineDocument

A base64 encoded binary representation of the code signing certificate chain.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CodeSigningSignature

Service: AWS IoT

Describes the signature for a file.

Contents

inlineDocument

A base64 encoded binary representation of the code signing signature.

Type: Base64-encoded binary data object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CommandExecutionResult

Service: AWS IoT

The result value of the command execution. The device can use the result field to share additional details about the execution such as a return value of a remote function call.

Note

This field is not applicable if you use the `AWS-IoT-FleetWise` namespace.

Contents

B

An attribute of type Boolean. For example:

```
"BOOL": true
```

Type: Boolean

Required: No

BIN

An attribute of type Binary.

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 1.

Required: No

S

An attribute of type String. For example:

```
"S": "Hello"
```

Type: String

Length Constraints: Minimum length of 1.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CommandExecutionSummary

Service: AWS IoT

Summary information about a particular command execution.

Contents

commandArn

The Amazon Resource Name (ARN) of the command execution.

Type: String

Required: No

completedAt

The date and time at which the command completed executing on the target device.

Type: Timestamp

Required: No

createdAt

The date and time at which the command execution was created for the target device.

Type: Timestamp

Required: No

executionId

The unique identifier of the command execution.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

startedAt

The date and time at which the command started executing on the target device.

Type: Timestamp

Required: No

status

The status of the command executions.

Type: String

Valid Values: CREATED | IN_PROGRESS | SUCCEEDED | FAILED | REJECTED | TIMED_OUT

Required: No

targetArn

The Amazon Resource Name (ARN) of the target device for which the command is being executed.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CommandParameter

Service: AWS IoT

A map of key-value pairs that describe the command.

Contents

name

The name of a specific parameter used in a command and command execution.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 192.

Pattern: `^[. $a-zA-Z0-9_-]+$`

Required: Yes

defaultValue

The default value used to describe the command. This is the value assumed by the parameter if no other value is assigned to it.

Type: [CommandParameterValue](#) object

Required: No

description

The description of the command parameter.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]*`

Required: No

type

The type of the command parameter.

Type: String

Valid Values: STRING | INTEGER | DOUBLE | LONG | UNSIGNEDLONG | BOOLEAN | BINARY

Required: No

value

Parameter value that overrides the default value, if set.

Type: [CommandParameterValue](#) object

Required: No

valueConditions

The list of conditions that a command parameter value must satisfy to create a command execution.

Type: Array of [CommandParameterValueCondition](#) objects

Array Members: Minimum number of 1 item.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CommandParameterValue

Service: AWS IoT

The value of a command parameter used to create a command execution.

Note

The `commandParameterValue` can only have one of the below fields listed.

Contents

B

An attribute of type Boolean. For example:

```
"BOOL": true
```

Type: Boolean

Required: No

BIN

An attribute of type Binary. For example:

```
"B": "dGhpcyB0ZXh0IGlzigJhc2U2NC1lbmNvZGVk"
```

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 1.

Required: No

D

An attribute of type Double (Sixty-Four Bits).

Type: Double

Required: No

I

An attribute of type Integer (Thirty-Two Bits).

Type: Integer

Required: No

L

An attribute of type Long.

Type: Long

Required: No

S

An attribute of type String. For example:

"S": "Hello"

Type: String

Length Constraints: Minimum length of 1.

Required: No

UL

An attribute of type unsigned long.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: `^[0-9]*$`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CommandParameterValueComparisonOperand

Service: AWS IoT

The comparison operand used to compare the defined value against the value supplied in request.

Contents

number

An operand of number value type, defined as a string.

Type: String

Length Constraints: Minimum length of 1.

Required: No

numberRange

An operand of numerical range value type.

Type: [CommandParameterValueNumberRange](#) object

Required: No

numbers

A List of operands of numerical value type, defined as strings.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1.

Required: No

string

An operand of string value type.

Type: String

Length Constraints: Minimum length of 1.

Required: No

strings

A List of operands of string value type.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CommandParameterValueCondition

Service: AWS IoT

A condition for the command parameter that must be evaluated to true for successful creation of a command execution.

Contents

comparisonOperator

The comparison operator for the command parameter.

Note

IN_RANGE, and NOT_IN_RANGE operators include boundary values.

Type: String

Valid Values: EQUALS | NOT_EQUALS | LESS_THAN | LESS_THAN_EQUALS | GREATER_THAN | GREATER_THAN_EQUALS | IN_SET | NOT_IN_SET | IN_RANGE | NOT_IN_RANGE

Required: Yes

operand

The comparison operand for the command parameter.

Type: [CommandParameterValueComparisonOperand](#) object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

CommandParameterValueNumberRange

Service: AWS IoT

The numerical range value type to compare a command parameter value against.

Contents

max

The maximum value of a numerical range of a command parameter value.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

min

The minimum value of a numerical range of a command parameter value.

Type: String

Length Constraints: Minimum length of 1.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CommandPayload

Service: AWS IoT

The command payload object that contains the instructions for the device to process.

Contents

content

The static payload file for the command.

Type: Base64-encoded binary data object

Required: No

contentType

The content type that specifies the format type of the payload file. This field must use a type/subtype format, such as `application/json`. For information about various content types, see [Common MIME types](#).

Type: String

Length Constraints: Minimum length of 1.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CommandPreprocessor

Service: AWS IoT

Configuration that determines how the `payloadTemplate` is processed by the service to generate the final payload sent to devices at `StartCommandExecution` API invocation.

Contents

`awsJsonSubstitution`

Configuration for the JSON substitution preprocessor.

Type: [AwsJsonSubstitutionCommandPreprocessorConfig](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CommandSummary

Service: AWS IoT

Summary information about a particular command resource.

Contents

commandArn

The Amazon Resource Name (ARN) of the command.

Type: String

Required: No

commandId

The unique identifier of the command.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

createdAt

The timestamp, when the command was created.

Type: Timestamp

Required: No

deprecated

Indicates whether the command has been deprecated.

Type: Boolean

Required: No

displayName

The display name of the command.

Type: String

Length Constraints: Maximum length of 64.

Pattern: `[^\p{C}]*`

Required: No

lastUpdatedAt

The timestamp, when the command was last updated.

Type: Timestamp

Required: No

pendingDeletion

Indicates whether the command is pending deletion.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Configuration

Service: AWS IoT

Configuration.

Contents

Enabled

True to enable the configuration.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ConfigurationDetails

Service: AWS IoT

The encryption configuration details that include the status information of the AWS Key Management Service (AWS KMS) key and the AWS KMS access role.

Contents

configurationStatus

The health status of KMS key and AWS KMS access role. If either KMS key or AWS KMS access role is UNHEALTHY, the return value will be UNHEALTHY. To use a customer managed KMS key, the value of configurationStatus must be HEALTHY.

Type: String

Valid Values: HEALTHY | UNHEALTHY

Required: No

errorCode

The error code that indicates either the KMS key or the AWS KMS access role is UNHEALTHY. Valid values: KMS_KEY_VALIDATION_ERROR and ROLE_VALIDATION_ERROR.

Type: String

Required: No

errorMessage

The detailed error message that corresponds to the errorCode.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ConnectivityFilter

Service: AWS IoT

Provides connectivity filter selections for the fleet indexing configuration.

Contents

includeSocketInformation

A list of fleet indexing APIs for which to enable socket information retrieval. Currently, the only supported value is GET_THING_CONNECTIVITY_DATA.

Type: Array of strings

Valid Values: GET_THING_CONNECTIVITY_DATA

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

CustomCodeSigning

Service: AWS IoT

Describes a custom method used to code sign a file.

Contents

certificateChain

The certificate chain.

Type: [CodeSigningCertificateChain](#) object

Required: No

hashAlgorithm

The hash algorithm used to code sign the file. You can use a string as the algorithm name if the target over-the-air (OTA) update devices are able to verify the signature that was generated using the same signature algorithm. For example, FreeRTOS uses SHA256 or SHA1, so you can pass either of them based on which was used for generating the signature.

Type: String

Required: No

signature

The signature for the file.

Type: [CodeSigningSignature](#) object

Required: No

signatureAlgorithm

The signature algorithm used to code sign the file. You can use a string as the algorithm name if the target over-the-air (OTA) update devices are able to verify the signature that was generated using the same signature algorithm. For example, FreeRTOS uses ECDSA or RSA, so you can pass either of them based on which was used for generating the signature.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Denied

Service: AWS IoT

Contains information that denied the authorization.

Contents

explicitDeny

Information that explicitly denies the authorization.

Type: [ExplicitDeny](#) object

Required: No

implicitDeny

Information that implicitly denies the authorization. When a policy doesn't explicitly deny or allow an action on a resource it is considered an implicit deny.

Type: [ImplicitDeny](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Destination

Service: AWS IoT

Describes the location of the updated firmware.

Contents

s3Destination

Describes the location in S3 of the updated firmware.

Type: [S3Destination](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DetectMitigationActionExecution

Service: AWS IoT

Describes which mitigation actions should be executed.

Contents

actionName

The friendly name that uniquely identifies the mitigation action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

errorCode

The error code of a mitigation action.

Type: String

Required: No

executionEndDate

The date a mitigation action ended.

Type: Timestamp

Required: No

executionStartDate

The date a mitigation action was started.

Type: Timestamp

Required: No

message

The message of a mitigation action.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

status

The status of a mitigation action.

Type: String

Valid Values: IN_PROGRESS | SUCCESSFUL | FAILED | SKIPPED

Required: No

taskId

The unique identifier of the task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

thingName

The name of the thing.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

violationId

The unique identifier of the violation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DetectMitigationActionsTaskStatistics

Service: AWS IoT

The statistics of a mitigation action task.

Contents

actionsExecuted

The actions that were performed.

Type: Long

Required: No

actionsFailed

The actions that failed.

Type: Long

Required: No

actionsSkipped

The actions that were skipped.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DetectMitigationActionsTaskSummary

Service: AWS IoT

The summary of the mitigation action tasks.

Contents

actionsDefinition

The definition of the actions.

Type: Array of [MitigationAction](#) objects

Required: No

onlyActiveViolationsIncluded

Includes only active violations.

Type: Boolean

Required: No

suppressedAlertsIncluded

Includes suppressed alerts.

Type: Boolean

Required: No

target

Specifies the ML Detect findings to which the mitigation actions are applied.

Type: [DetectMitigationActionsTaskTarget](#) object

Required: No

taskEndTime

The date the task ended.

Type: Timestamp

Required: No

taskId

The unique identifier of the task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

taskStartTime

The date the task started.

Type: Timestamp

Required: No

taskStatistics

The statistics of a mitigation action task.

Type: [DetectMitigationActionsTaskStatistics](#) object

Required: No

taskStatus

The status of the task.

Type: String

Valid Values: IN_PROGRESS | SUCCESSFUL | FAILED | CANCELED

Required: No

violationEventOccurrenceRange

Specifies the time period of which violation events occurred between.

Type: [ViolationEventOccurrenceRange](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DetectMitigationActionsTaskTarget

Service: AWS IoT

The target of a mitigation action task.

Contents

behaviorName

The name of the behavior.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

securityProfileName

The name of the security profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

violationIds

The unique identifiers of the violations.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 25 items.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DocumentParameter

Service: AWS IoT

A map of key-value pairs containing the patterns that need to be replaced in a managed template job document schema. You can use the description of each key as a guidance to specify the inputs during runtime when creating a job.

Note

`documentParameters` can only be used when creating jobs from AWS managed templates. This parameter can't be used with custom job templates or to create jobs from them.

Contents

description

Description of the map field containing the patterns that need to be replaced in a managed template job document schema.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: No

example

An example illustrating a pattern that need to be replaced in a managed template job document schema.

Type: String

Pattern: `[^\p{C}]+`

Required: No

key

Key of the map field containing the patterns that need to be replaced in a managed template job document schema.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

optional

Specifies whether a pattern that needs to be replaced in a managed template job document schema is optional or required.

Type: Boolean

Required: No

regex

A regular expression of the patterns that need to be replaced in a managed template job document schema.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DomainConfigurationSummary

Service: AWS IoT

The summary of a domain configuration. A domain configuration specifies custom IoT-specific information about a domain. A domain configuration can be associated with an AWS-managed domain (for example, dbc123defghijk.iot.us-west-2.amazonaws.com), a customer managed domain, or a default endpoint.

- Data
- Jobs
- CredentialProvider

Contents

domainConfigurationArn

The ARN of the domain configuration.

Type: String

Required: No

domainConfigurationName

The name of the domain configuration. This value must be unique to a region.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w. : - ]+`

Required: No

serviceType

The type of service delivered by the endpoint.

Type: String

Valid Values: DATA | CREDENTIAL_PROVIDER | JOBS

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DynamoDBAction

Service: AWS IoT

Describes an action to write to a DynamoDB table.

The `tableName`, `hashKeyField`, and `rangeKeyField` values must match the values used when you created the table.

The `hashKeyValue` and `rangeKeyValue` fields use a substitution template syntax. These templates provide data at runtime. The syntax is as follows: `${sql-expression}`.

You can specify any valid expression in a WHERE or SELECT clause, including JSON properties, comparisons, calculations, and functions. For example, the following field uses the third level of the topic:

```
"hashKeyValue": "${topic(3)}"
```

The following field uses the timestamp:

```
"rangeKeyValue": "${timestamp()}"
```

Contents

hashKeyField

The hash key name.

Type: String

Required: Yes

hashKeyValue

The hash key value.

Type: String

Required: Yes

roleArn

The ARN of the IAM role that grants access to the DynamoDB table.

Type: String

Required: Yes

tableName

The name of the DynamoDB table.

Type: String

Required: Yes

hashKeyType

The hash key type. Valid values are "STRING" or "NUMBER"

Type: String

Valid Values: STRING | NUMBER

Required: No

operation

The type of operation to be performed. This follows the substitution template, so it can be `${operation}`, but the substitution must result in one of the following: INSERT, UPDATE, or DELETE.

Type: String

Required: No

payloadField

The action payload. This name can be customized.

Type: String

Required: No

rangeKeyField

The range key name.

Type: String

Required: No

rangeKeyType

The range key type. Valid values are "STRING" or "NUMBER"

Type: String

Valid Values: STRING | NUMBER

Required: No

rangeKeyValue

The range key value.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DynamoDBv2Action

Service: AWS IoT

Describes an action to write to a DynamoDB table.

This DynamoDB action writes each attribute in the message payload into it's own column in the DynamoDB table.

Contents

putItem

Specifies the DynamoDB table to which the message data will be written. For example:

```
{ "dynamoDBv2": { "roleArn": "aws:iam:12341251:my-role" "putItem":  
{ "tableName": "my-table" } } }
```

Each attribute in the message payload will be written to a separate column in the DynamoDB database.

Type: [PutItemInput](#) object

Required: Yes

roleArn

The ARN of the IAM role that grants access to the DynamoDB table.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EffectivePolicy

Service: AWS IoT

The policy that has the effect on the authorization results.

Contents

policyArn

The policy ARN.

Type: String

Required: No

policyDocument

The IAM policy document.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 404600.

Pattern: `[\s\S]*`

Required: No

policyName

The policy name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ElasticsearchAction

Service: AWS IoT

Describes an action that writes data to an Amazon OpenSearch Service domain.

Note

The `Elasticsearch` action can only be used by existing rule actions. To create a new rule action or to update an existing rule action, use the `OpenSearch` rule action instead. For more information, see [OpenSearchAction](#).

Contents

endpoint

The endpoint of your OpenSearch domain.

Type: String

Pattern: `https?://.*`

Required: Yes

id

The unique identifier for the document you are storing.

Type: String

Required: Yes

index

The index where you want to store your data.

Type: String

Required: Yes

roleArn

The IAM role ARN that has access to OpenSearch.

Type: String

Required: Yes

type

The type of document you are storing.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

EnableIoTLoggingParams

Service: AWS IoT

Parameters used when defining a mitigation action that enable AWS IoT Core logging.

Contents

logLevel

Specifies the type of information to be logged.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

Required: Yes

roleArnForLogging

The Amazon Resource Name (ARN) of the IAM role used for logging.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ErrorInfo

Service: AWS IoT

Error information.

Contents

code

The error code.

Type: String

Required: No

message

The error message.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ExplicitDeny

Service: AWS IoT

Information that explicitly denies authorization.

Contents

policies

The policies that denied the authorization.

Type: Array of [Policy](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ExponentialRolloutRate

Service: AWS IoT

Allows you to create an exponential rate of rollout for a job.

Contents

baseRatePerMinute

The minimum number of things that will be notified of a pending job, per minute at the start of job rollout. This parameter allows you to define the initial rate of rollout.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: Yes

incrementFactor

The exponential factor to increase the rate of rollout for a job.

AWS IoT Core supports up to one digit after the decimal (for example, 1.5, but not 1.55).

Type: Double

Valid Range: Minimum value of 1.1. Maximum value of 5.

Required: Yes

rateIncreaseCriteria

The criteria to initiate the increase in rate of rollout for a job.

Type: [RateIncreaseCriteria](#) object

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Field

Service: AWS IoT

Describes the name and data type at a field.

Contents

name

The name of the field.

Type: String

Required: No

type

The data type of the field.

Type: String

Valid Values: Number | String | Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FileLocation

Service: AWS IoT

The location of the OTA update.

Contents

s3Location

The location of the updated firmware in S3.

Type: [S3Location](#) object

Required: No

stream

The stream that contains the OTA update.

Type: [Stream](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FirehoseAction

Service: AWS IoT

Describes an action that writes data to an Amazon Kinesis Firehose stream.

Contents

deliveryStreamName

The delivery stream name.

Type: String

Required: Yes

roleArn

The IAM role that grants access to the Amazon Kinesis Firehose stream.

Type: String

Required: Yes

batchMode

Whether to deliver the Kinesis Data Firehose stream as a batch by using [PutRecordBatch](#). The default value is `false`.

When `batchMode` is `true` and the rule's SQL statement evaluates to an Array, each Array element forms one record in the [PutRecordBatch](#) request. The resulting array can't have more than 500 records.

Type: Boolean

Required: No

separator

A character separator that will be used to separate records written to the Firehose stream. Valid values are: `'\n'` (newline), `'\t'` (tab), `'\r\n'` (Windows newline), `' '` (comma).

Type: String

Pattern: `([\n\t])|(\r\n)|(,)`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

FleetMetricNameAndArn

Service: AWS IoT

The name and ARN of a fleet metric.

Contents

metricArn

The fleet metric ARN.

Type: String

Required: No

metricName

The fleet metric name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_\-\.]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

GeoLocationTarget

Service: AWS IoT

A geolocation target that you select to index. Each geolocation target contains a `name` and `order` key-value pair that specifies the geolocation target fields.

Contents

name

The name of the geolocation target field. If the target field is part of a named shadow, you must select the named shadow using the `namedShadow` filter.

Type: String

Required: No

order

The order of the geolocation target field. This field is optional. The default value is `LatLon`.

Type: String

Valid Values: `LatLon` | `LonLat`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

GroupNameAndArn

Service: AWS IoT

The name and ARN of a group.

Contents

groupArn

The group ARN.

Type: String

Required: No

groupName

The group name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpAction

Service: AWS IoT

Send data to an HTTPS endpoint.

Contents

url

The endpoint URL. If substitution templates are used in the URL, you must also specify a `confirmationUrl`. If this is a new destination, a new `TopicRuleDestination` is created if possible.

Type: String

Length Constraints: Maximum length of 2000.

Required: Yes

auth

The authentication method to use when sending data to an HTTPS endpoint.

Type: [HttpAuthorization](#) object

Required: No

batchConfig

The configuration settings for batching. For more information, see [Batching HTTP action messages](#).

Type: [BatchConfig](#) object

Required: No

confirmationUrl

The URL to which AWS IoT sends a confirmation message. The value of the confirmation URL must be a prefix of the endpoint URL. If you do not specify a confirmation URL AWS IoT uses the endpoint URL as the confirmation URL. If you use substitution templates in the `confirmationUrl`, you must create and enable topic rule destinations that match each possible value of the substitution template before traffic is allowed to your endpoint URL.

Type: String

Length Constraints: Maximum length of 2000.

Required: No

enableBatching

Whether to process the HTTP action messages into a single request. Value can be true or false.

Type: Boolean

Required: No

headers

The HTTP headers to send with the message data.

Type: Array of [HttpActionHeader](#) objects

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpActionHeader

Service: AWS IoT

The HTTP action header.

Contents

key

The HTTP header key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

value

The HTTP header value. Substitution templates are supported.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpAuthorization

Service: AWS IoT

The authorization method used to send messages.

Contents

sigv4

Use Sig V4 authorization. For more information, see [Signature Version 4 Signing Process](#).

Type: [SigV4Authorization](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpContext

Service: AWS IoT

Specifies the HTTP context to use for the test authorizer request.

Contents

headers

The header keys and values in an HTTP authorization request.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 8192.

Key Pattern: `[\s\S]*`

Value Length Constraints: Minimum length of 1. Maximum length of 8192.

Value Pattern: `[\s\S]*`

Required: No

queryString

The query string keys and values in an HTTP authorization request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[\s\S]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

HttpUrlDestinationConfiguration

Service: AWS IoT

HTTP URL destination configuration used by the topic rule's HTTP action.

Contents

confirmationUrl

The URL AWS IoT uses to confirm ownership of or access to the topic rule destination URL.

Type: String

Length Constraints: Maximum length of 2000.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpUrlDestinationProperties

Service: AWS IoT

HTTP URL destination properties.

Contents

confirmationUrl

The URL used to confirm the HTTP topic rule destination URL.

Type: String

Length Constraints: Maximum length of 2000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

HttpUrlDestinationSummary

Service: AWS IoT

Information about an HTTP URL destination.

Contents

confirmationUrl

The URL used to confirm ownership of or access to the HTTP topic rule destination URL.

Type: String

Length Constraints: Maximum length of 2000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ImplicitDeny

Service: AWS IoT

Information that implicitly denies authorization. When policy doesn't explicitly deny or allow an action on a resource it is considered an implicit deny.

Contents

policies

Policies that don't contain a matching allow or deny statement for the specified action on the specified resource.

Type: Array of [Policy](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

IndexingFilter

Service: AWS IoT

Provides additional selections for named shadows and geolocation data.

To add named shadows to your fleet indexing configuration, set `namedShadowIndexingMode` to be ON and specify your shadow names in `namedShadowNames` filter.

To add geolocation data to your fleet indexing configuration:

- If you store geolocation data in a class/unnamed shadow, set `thingIndexingMode` to be `REGISTRY_AND_SHADOW` and specify your geolocation data in `geoLocations` filter.
- If you store geolocation data in a named shadow, set `namedShadowIndexingMode` to be ON, add the shadow name in `namedShadowNames` filter, and specify your geolocation data in `geoLocations` filter. For more information, see [Managing fleet indexing](#).

Contents

connectivity

Provides additional connectivity filter selections for the fleet indexing configuration.

Type: [ConnectivityFilter](#) object

Required: No

geoLocations

The list of geolocation targets that you select to index. The default maximum number of geolocation targets for indexing is 1. To increase the limit, see [AWS IoT Device Management Quotas](#) in the *AWS General Reference*.

Type: Array of [GeoLocationTarget](#) objects

Required: No

namedShadowNames

The shadow names that you select to index. The default maximum number of shadow names for indexing is 10. To increase the limit, see [AWS IoT Device Management Quotas](#) in the *AWS General Reference*.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[$a-zA-Z0-9:_-]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

IoTAnalyticsAction

Service: AWS IoT

Sends message data to an AWS IoT Analytics channel.

Contents

batchMode

Whether to process the action as a batch. The default value is `false`.

When `batchMode` is `true` and the rule SQL statement evaluates to an Array, each Array element is delivered as a separate message when passed by [BatchPutMessage](#) to the AWS IoT Analytics channel. The resulting array can't have more than 100 messages.

Type: Boolean

Required: No

channelArn

(deprecated) The ARN of the IoT Analytics channel to which message data will be sent.

Type: String

Required: No

channelName

The name of the IoT Analytics channel to which message data will be sent.

Type: String

Required: No

roleArn

The ARN of the role which has a policy that grants IoT Analytics permission to send message data via IoT Analytics (iotanalytics:BatchPutMessage).

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

IoTEventsAction

Service: AWS IoT

Sends an input to an AWS IoT Events detector.

Contents

inputName

The name of the AWS IoT Events input.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: Yes

roleArn

The ARN of the role that grants AWS IoT permission to send an input to an AWS IoT Events detector. ("Action": "iotevents:BatchPutMessage").

Type: String

Required: Yes

batchMode

Whether to process the event actions as a batch. The default value is `false`.

When `batchMode` is `true`, you can't specify a `messageId`.

When `batchMode` is `true` and the rule SQL statement evaluates to an Array, each Array element is treated as a separate message when it's sent to AWS IoT Events by calling [BatchPutMessage](#). The resulting array can't have more than 10 messages.

Type: Boolean

Required: No

messageId

The ID of the message. The default `messageId` is a new UUID value.

When `batchMode` is `true`, you can't specify a `messageId`--a new UUID value will be assigned.

Assign a value to this property to ensure that only one input (message) with a given messageId will be processed by an AWS IoT Events detector.

Type: String

Length Constraints: Maximum length of 128.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

IoTSiteWiseAction

Service: AWS IoT

Describes an action to send data from an MQTT message that triggered the rule to AWS IoT SiteWise asset properties.

Contents

putAssetPropertyValueEntries

A list of asset property value entries.

Type: Array of [PutAssetPropertyValueEntry](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

roleArn

The ARN of the role that grants AWS IoT permission to send an asset property value to AWS IoT SiteWise. ("Action": "iotsitewise:BatchPutAssetPropertyValue"). The trust policy can restrict access to specific asset hierarchy paths.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

IssuerCertificateIdentifier

Service: AWS IoT

The certificate issuer identifier.

Contents

issuerCertificateSerialNumber

The issuer certificate serial number.

Type: String

Length Constraints: Maximum length of 20.

Pattern: [a-fA-F0-9:]+

Required: No

issuerCertificateSubject

The subject of the issuer certificate.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [\p{Graph}\x20]*

Required: No

issuerId

The issuer ID.

Type: String

Length Constraints: Maximum length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Job

Service: AWS IoT

The Job object contains details about a job.

Contents

abortConfig

Configuration for criteria to abort the job.

Type: [AbortConfig](#) object

Required: No

comment

If the job was updated, describes the reason for the update.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: No

completedAt

The time, in seconds since the epoch, when the job was completed.

Type: Timestamp

Required: No

createdAt

The time, in seconds since the epoch, when the job was created.

Type: Timestamp

Required: No

description

A short text description of the job.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: No

destinationPackageVersions

The package version Amazon Resource Names (ARNs) that are installed on the device when the job successfully completes. The package version must be in either the Published or Deprecated state when the job deploys. For more information, see [Package version lifecycle](#). The package version must be in either the Published or Deprecated state when the job deploys. For more information, see [Package version lifecycle](#).

Note: The following Length Constraints relates to a single ARN. Up to 25 package version ARNs are allowed.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:[!-~]+$`

Required: No

documentParameters

A key-value map that pairs the patterns that need to be replaced in a managed template job document schema. You can use the description of each key as a guidance to specify the inputs during runtime when creating a job.

Note

`documentParameters` can only be used when creating jobs from AWS managed templates. This parameter can't be used with custom job templates or to create jobs from them.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[a-zA-Z0-9_-]+`

Value Length Constraints: Minimum length of 1. Maximum length of 30720.

Value Pattern: `[\p{C}]+`

Required: No

forceCanceled

Will be `true` if the job was canceled with the optional `force` parameter set to `true`.

Type: Boolean

Required: No

isConcurrent

Indicates whether a job is concurrent. Will be `true` when a job is rolling out new job executions or canceling previously created executions, otherwise `false`.

Type: Boolean

Required: No

jobArn

An ARN identifying the job with format `"arn:aws:iot:region:account:job/jobId"`.

Type: String

Required: No

jobExecutionsRetryConfig

The configuration for the criteria to retry the job.

Type: [JobExecutionsRetryConfig](#) object

Required: No

jobExecutionsRolloutConfig

Allows you to create a staged rollout of a job.

Type: [JobExecutionsRolloutConfig](#) object

Required: No

jobId

The unique identifier you assigned to this job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

jobProcessDetails

Details about the job process.

Type: [JobProcessDetails](#) object

Required: No

jobTemplateArn

The ARN of the job template used to create the job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:[!-~]+$`

Required: No

lastUpdatedAt

The time, in seconds since the epoch, when the job was last updated.

Type: Timestamp

Required: No

namespaceId

The namespace used to indicate that a job is a customer-managed job.

When you specify a value for this parameter, AWS IoT Core sends jobs notifications to MQTT topics that contain the value in the following format.

`$aws/things/THING_NAME/jobs/JOB_ID/notify-namespace-NAMESPACE_ID/`

 Note

The namespaceId feature is only supported by AWS IoT Greengrass at this time. For more information, see [Setting up AWS IoT Greengrass core devices](#).

Type: String

Pattern: `[a-zA-Z0-9_-]+`

Required: No

presignedUrlConfig

Configuration for pre-signed S3 URLs.

Type: [PresignedUrlConfig](#) object

Required: No

reasonCode

If the job was updated, provides the reason code for the update.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\p{Upper}\p{Digit}_]+`

Required: No

scheduledJobRollouts

Displays the next seven maintenance window occurrences and their start times.

Type: Array of [ScheduledJobRollout](#) objects

Required: No

schedulingConfig

The configuration that allows you to schedule a job for a future date and time in addition to specifying the end behavior for each job execution.

Type: [SchedulingConfig](#) object

Required: No

status

The status of the job, one of IN_PROGRESS, CANCELED, DELETION_IN_PROGRESS or COMPLETED.

Type: String

Valid Values: IN_PROGRESS | CANCELED | COMPLETED | DELETION_IN_PROGRESS | SCHEDULED

Required: No

targets

A list of IoT things and thing groups to which the job should be sent.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Maximum length of 2048.

Required: No

targetSelection

Specifies whether the job will continue to run (CONTINUOUS), or will be complete after all those things specified as targets have completed the job (SNAPSHOT). If continuous, the job may also be run on a thing when a change is detected in a target. For example, a job will run on a device when the thing representing the device is added to a target group, even after the job was completed by all things originally in the group.

Note

We recommend that you use continuous jobs instead of snapshot jobs for dynamic thing group targets. By using continuous jobs, devices that join the group receive the job execution even after the job has been created.

Type: String

Valid Values: CONTINUOUS | SNAPSHOT

Required: No

timeoutConfig

Specifies the amount of time each device has to finish its execution of the job. A timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the timer expires, it will be automatically set to TIMED_OUT.

Type: [TimeoutConfig](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecution

Service: AWS IoT

The job execution object represents the execution of a job on a particular device.

Contents

approximateSecondsBeforeTimedOut

The estimated number of seconds that remain before the job execution status will be changed to TIMED_OUT. The timeout interval can be anywhere between 1 minute and 7 days (1 to 10080 minutes). The actual job execution timeout can occur up to 60 seconds later than the estimated duration. This value will not be included if the job execution has reached a terminal status.

Type: Long

Required: No

executionNumber

A string (consisting of the digits "0" through "9") which identifies this particular job execution on this particular device. It can be used in commands which return or update job execution information.

Type: Long

Required: No

forceCanceled

Will be true if the job execution was canceled with the optional force parameter set to true.

Type: Boolean

Required: No

jobId

The unique identifier you assigned to the job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

lastUpdatedAt

The time, in seconds since the epoch, when the job execution was last updated.

Type: Timestamp

Required: No

queuedAt

The time, in seconds since the epoch, when the job execution was queued.

Type: Timestamp

Required: No

startedAt

The time, in seconds since the epoch, when the job execution started.

Type: Timestamp

Required: No

status

The status of the job execution (IN_PROGRESS, QUEUED, FAILED, SUCCEEDED, TIMED_OUT, CANCELED, or REJECTED).

Type: String

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT | REJECTED | REMOVED | CANCELED

Required: No

statusDetails

A collection of name/value pairs that describe the status of the job execution.

Type: [JobExecutionStatusDetails](#) object

Required: No

thingArn

The ARN of the thing on which the job execution is running.

Type: String

Required: No

versionNumber

The version of the job execution. Job execution versions are incremented each time they are updated by a device.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionsRetryConfig

Service: AWS IoT

The configuration that determines how many retries are allowed for each failure type for a job.

Contents

criteriaList

The list of criteria that determines how many retries are allowed for each failure type for a job.

Type: Array of [RetryCriteria](#) objects

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionsRolloutConfig

Service: AWS IoT

Allows you to create a staged rollout of a job.

Contents

exponentialRate

The rate of increase for a job rollout. This parameter allows you to define an exponential rate for a job rollout.

Type: [ExponentialRolloutRate](#) object

Required: No

maximumPerMinute

The maximum number of things that will be notified of a pending job, per minute. This parameter allows you to create a staged rollout.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionStatusDetails

Service: AWS IoT

Details of the job execution status.

Contents

detailsMap

The job execution status.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Minimum length of 1.

Value Pattern: [^\p{C}]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionSummary

Service: AWS IoT

The job execution summary.

Contents

executionNumber

A string (consisting of the digits "0" through "9") which identifies this particular job execution on this particular device. It can be used later in commands which return or update job execution information.

Type: Long

Required: No

lastUpdatedAt

The time, in seconds since the epoch, when the job execution was last updated.

Type: Timestamp

Required: No

queuedAt

The time, in seconds since the epoch, when the job execution was queued.

Type: Timestamp

Required: No

retryAttempt

The number that indicates how many retry attempts have been completed for this job on this device.

Type: Integer

Required: No

startedAt

The time, in seconds since the epoch, when the job execution started.

Type: Timestamp

Required: No

status

The status of the job execution.

Type: String

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT |
REJECTED | REMOVED | CANCELED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionSummaryForJob

Service: AWS IoT

Contains a summary of information about job executions for a specific job.

Contents

jobExecutionSummary

Contains a subset of information about a job execution.

Type: [JobExecutionSummary](#) object

Required: No

thingArn

The ARN of the thing on which the job execution is running.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionSummaryForThing

Service: AWS IoT

The job execution summary for a thing.

Contents

jobExecutionSummary

Contains a subset of information about a job execution.

Type: [JobExecutionSummary](#) object

Required: No

jobId

The unique identifier you assigned to this job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobProcessDetails

Service: AWS IoT

The job process details.

Contents

numberOfCanceledThings

The number of things that cancelled the job.

Type: Integer

Required: No

numberOfFailedThings

The number of things that failed executing the job.

Type: Integer

Required: No

numberOfInProgressThings

The number of things currently executing the job.

Type: Integer

Required: No

numberOfQueuedThings

The number of things that are awaiting execution of the job.

Type: Integer

Required: No

numberOfRejectedThings

The number of things that rejected the job.

Type: Integer

Required: No

numberOfRemovedThings

The number of things that are no longer scheduled to execute the job because they have been deleted or have been removed from the group that was a target of the job.

Type: Integer

Required: No

numberOfSucceededThings

The number of things which successfully completed the job.

Type: Integer

Required: No

numberOfTimedOutThings

The number of things whose job execution status is `TIMED_OUT`.

Type: Integer

Required: No

processingTargets

The target devices to which the job execution is being rolled out. This value will be null after the job execution has finished rolling out to all the target devices.

Type: Array of strings

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobSummary

Service: AWS IoT

The job summary.

Contents

completedAt

The time, in seconds since the epoch, when the job completed.

Type: Timestamp

Required: No

createdAt

The time, in seconds since the epoch, when the job was created.

Type: Timestamp

Required: No

isConcurrent

Indicates whether a job is concurrent. Will be true when a job is rolling out new job executions or canceling previously created executions, otherwise false.

Type: Boolean

Required: No

jobArn

The job ARN.

Type: String

Required: No

jobId

The unique identifier you assigned to this job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

lastUpdatedAt

The time, in seconds since the epoch, when the job was last updated.

Type: Timestamp

Required: No

status

The job summary status.

Type: String

Valid Values: IN_PROGRESS | CANCELED | COMPLETED | DELETION_IN_PROGRESS | SCHEDULED

Required: No

targetSelection

Specifies whether the job will continue to run (CONTINUOUS), or will be complete after all those things specified as targets have completed the job (SNAPSHOT). If continuous, the job may also be run on a thing when a change is detected in a target. For example, a job will run on a thing when the thing is added to a target group, even after the job was completed by all things originally in the group.

Note

We recommend that you use continuous jobs instead of snapshot jobs for dynamic thing group targets. By using continuous jobs, devices that join the group receive the job execution even after the job has been created.

Type: String

Valid Values: CONTINUOUS | SNAPSHOT

Required: No

thingGroupId

The ID of the thing group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobTemplateSummary

Service: AWS IoT

An object that contains information about the job template.

Contents

createdAt

The time, in seconds since the epoch, when the job template was created.

Type: Timestamp

Required: No

description

A description of the job template.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: No

jobTemplateArn

The ARN of the job template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:[!-~]+$`

Required: No

jobTemplateId

The unique identifier of the job template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KafkaAction

Service: AWS IoT

Send messages to an Amazon Managed Streaming for Apache Kafka (Amazon MSK) or self-managed Apache Kafka cluster.

Contents

clientProperties

Properties of the Apache Kafka producer client.

Type: String to string map

Required: Yes

destinationArn

The ARN of Kafka action's VPC TopicRuleDestination.

Type: String

Required: Yes

topic

The Kafka topic for messages to be sent to the Kafka broker.

Type: String

Required: Yes

headers

The list of Kafka headers that you specify.

Type: Array of [KafkaActionHeader](#) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: No

key

The Kafka message key.

Type: String

Required: No

partition

The Kafka message partition.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KafkaActionHeader

Service: AWS IoT

Specifies a Kafka header using key-value pairs when you create a Rule's Kafka Action. You can use these headers to route data from IoT clients to downstream Kafka clusters without modifying your message payload.

For more information about Rule's Kafka action, see [Apache Kafka](#).

Contents

key

The key of the Kafka header.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16384.

Required: Yes

value

The value of the Kafka header.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 16384.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KeyPair

Service: AWS IoT

Describes a key pair.

Contents

PrivateKey

The private key.

Type: String

Length Constraints: Minimum length of 1.

Required: No

PublicKey

The public key.

Type: String

Length Constraints: Minimum length of 1.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

KinesisAction

Service: AWS IoT

Describes an action to write data to an Amazon Kinesis stream.

Contents

roleArn

The ARN of the IAM role that grants access to the Amazon Kinesis stream.

Type: String

Required: Yes

streamName

The name of the Amazon Kinesis stream.

Type: String

Required: Yes

partitionKey

The partition key.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LambdaAction

Service: AWS IoT

Describes an action to invoke a Lambda function.

Contents

functionArn

The ARN of the Lambda function.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LocationAction

Service: AWS IoT

The Amazon Location rule action sends device location updates from an MQTT message to an Amazon Location tracker resource.

Contents

deviceId

The unique ID of the device providing the location data.

Type: String

Required: Yes

latitude

A string that evaluates to a double value that represents the latitude of the device's location.

Type: String

Required: Yes

longitude

A string that evaluates to a double value that represents the longitude of the device's location.

Type: String

Required: Yes

roleArn

The IAM role that grants permission to write to the Amazon Location resource.

Type: String

Required: Yes

trackerName

The name of the tracker resource in Amazon Location in which the location is updated.

Type: String

Required: Yes

timestamp

The time that the location data was sampled. The default value is the time the MQTT message was processed.

Type: [LocationTimestamp](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LocationTimestamp

Service: AWS IoT

Describes how to interpret an application-defined timestamp value from an MQTT message payload and the precision of that value.

Contents

value

An expression that returns a long epoch time value.

Type: String

Required: Yes

unit

The precision of the timestamp value that results from the expression described in `value`.

Valid values: SECONDS | MILLISECONDS | MICROSECONDS | NANoseconds. The default is MILLISECONDS.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LogEventConfiguration

Service: AWS IoT

Configuration for event-based logging that specifies which event types to log and their logging settings. Used for account-level logging overrides.

Contents

eventType

The type of event to log. These include event types like Connect, Publish, and Disconnect.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

logDestination

CloudWatch Log Group for event-based logging. Specifies where log events should be sent. The log destination for event-based logging overrides default Log Group for the specified event type and applies to all resources associated with that event.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `^[.\\-_/#A-Za-z0-9]+$`

Required: No

logLevel

The logging level for the specified event type. Determines the verbosity of log messages generated for this event type.

Type: String

Valid Values: `DEBUG` | `INFO` | `ERROR` | `WARN` | `DISABLED`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LoggingOptionsPayload

Service: AWS IoT

Describes the logging options payload.

Contents

roleArn

The ARN of the IAM role that grants access.

Type: String

Required: Yes

logLevel

The log level.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LogTarget

Service: AWS IoT

A log target.

Contents

targetType

The target type.

Type: String

Valid Values: DEFAULT | THING_GROUP | CLIENT_ID | SOURCE_IP | PRINCIPAL_ID

Required: Yes

targetName

The target name.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

LogTargetConfiguration

Service: AWS IoT

The target configuration.

Contents

logLevel

The logging level.

Type: String

Valid Values: DEBUG | INFO | ERROR | WARN | DISABLED

Required: No

logTarget

A log target

Type: [LogTarget](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MachineLearningDetectionConfig

Service: AWS IoT

The configuration of an ML Detect Security Profile.

Contents

confidenceLevel

The sensitivity of anomalous behavior evaluation. Can be Low, Medium, or High.

Type: String

Valid Values: LOW | MEDIUM | HIGH

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MaintenanceWindow

Service: AWS IoT

An optional configuration within the `SchedulingConfig` to setup a recurring maintenance window with a predetermined start time and duration for the rollout of a job document to all devices in a target group for a job.

Contents

durationInMinutes

Displays the duration of the next maintenance window.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1430.

Required: Yes

startTime

Displays the start time of the next maintenance window.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ManagedJobTemplateSummary

Service: AWS IoT

An object that contains information about the managed template.

Contents

description

The description for a managed template.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: No

environments

A list of environments that are supported with the managed job template.

Type: Array of strings

Pattern: `[^\p{C}]+`

Required: No

templateArn

The Amazon Resource Name (ARN) for a managed template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `^arn:[!-~]+$`

Required: No

templateName

The unique Name for a managed template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

templateVersion

The version for a managed template.

Type: String

Pattern: `^[1-9]+.[0-9]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MetricDatum

Service: AWS IoT

A metric.

Contents

timestamp

The time the metric value was reported.

Type: Timestamp

Required: No

value

The value reported for the metric.

Type: [MetricValue](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MetricDimension

Service: AWS IoT

The dimension of a metric.

Contents

dimensionName

A unique identifier for the dimension.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

operator

Defines how the `dimensionValues` of a dimension are interpreted. For example, for dimension type `TOPIC_FILTER`, the `IN` operator, a message will be counted only if its topic matches one of the topic filters. With `NOT_IN` operator, a message will be counted only if it doesn't match any of the topic filters. The operator is optional: if it's not provided (is `null`), it will be interpreted as `IN`.

Type: String

Valid Values: `IN` | `NOT_IN`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MetricsExportConfig

Service: AWS IoT

Set configurations for metrics export.

Contents

mqttTopic

The MQTT topic that Device Defender Detect should publish messages to for metrics export.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: Yes

roleArn

This role ARN has permission to publish MQTT messages, after which Device Defender Detect can assume the role and publish messages on your behalf.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MetricToRetain

Service: AWS IoT

The metric you want to retain. Dimensions are optional.

Contents

metric

What is measured by the behavior.

Type: String

Required: Yes

exportMetric

The value indicates exporting metrics related to the `MetricToRetain` when it's true.

Type: Boolean

Required: No

metricDimension

The dimension of a metric. This can't be used with custom metrics.

Type: [MetricDimension](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MetricValue

Service: AWS IoT

The value to be compared with the `metric`.

Contents

cidrs

If the `comparisonOperator` calls for a set of CIDRs, use this to specify that set to be compared with the `metric`.

Type: Array of strings

Length Constraints: Minimum length of 2. Maximum length of 43.

Pattern: `[a-zA-Z0-9:\.\.\/]+`

Required: No

count

If the `comparisonOperator` calls for a numeric value, use this to specify that numeric value to be compared with the `metric`.

Type: Long

Valid Range: Minimum value of 0.

Required: No

number

The numeral value of a metric.

Type: Double

Required: No

numbers

The numeral values of a metric.

Type: Array of doubles

Required: No

ports

If the `comparisonOperator` calls for a set of ports, use this to specify that set to be compared with the `metric`.

Type: Array of integers

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

strings

The string values of a metric.

Type: Array of strings

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MitigationAction

Service: AWS IoT

Describes which changes should be applied as part of a mitigation action.

Contents

actionParams

The set of parameters for this mitigation action. The parameters vary, depending on the kind of action you apply.

Type: [MitigationActionParams](#) object

Required: No

id

A unique identifier for the mitigation action.

Type: String

Required: No

name

A user-friendly name for the mitigation action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

roleArn

The IAM role ARN used to apply this mitigation action.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MitigationActionIdentifier

Service: AWS IoT

Information that identifies a mitigation action. This information is returned by `ListMitigationActions`.

Contents

actionArn

The IAM role ARN used to apply this mitigation action.

Type: String

Required: No

actionName

The friendly name of the mitigation action.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

creationDate

The date when this mitigation action was created.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

MitigationActionParams

Service: AWS IoT

The set of parameters for this mitigation action. You can specify only one type of parameter (in other words, you can apply only one action for each defined mitigation action).

Contents

addThingsToThingGroupParams

Parameters to define a mitigation action that moves devices associated with a certificate to one or more specified thing groups, typically for quarantine.

Type: [AddThingsToThingGroupParams](#) object

Required: No

enableIoTLoggingParams

Parameters to define a mitigation action that enables AWS IoT Core logging at a specified level of detail.

Type: [EnableIoTLoggingParams](#) object

Required: No

publishFindingToSnsParams

Parameters to define a mitigation action that publishes findings to Amazon Simple Notification Service (Amazon SNS). You can implement your own custom actions in response to the Amazon SNS messages.

Type: [PublishFindingToSnsParams](#) object

Required: No

replaceDefaultPolicyVersionParams

Parameters to define a mitigation action that adds a blank policy to restrict permissions.

Type: [ReplaceDefaultPolicyVersionParams](#) object

Required: No

updateCACertificateParams

Parameters to define a mitigation action that changes the state of the CA certificate to inactive.

Type: [UpdateCACertificateParams](#) object

Required: No

updateDeviceCertificateParams

Parameters to define a mitigation action that changes the state of the device certificate to inactive.

Type: [UpdateDeviceCertificateParams](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Mqtt5Configuration

Service: AWS IoT

The configuration to add user-defined properties to enrich MQTT 5 messages.

Contents

`propagatingAttributes`

An object that represents the propagating thing attributes and the connection attributes.

Type: Array of [PropagatingAttribute](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MqttContext

Service: AWS IoT

Specifies the MQTT context to use for the test authorizer request

Contents

clientId

The value of the `clientId` key in an MQTT authorization request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Pattern: `[\s\S]*`

Required: No

password

The value of the `password` key in an MQTT authorization request.

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 1. Maximum length of 65535.

Required: No

username

The value of the `username` key in an MQTT authorization request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Pattern: `[\s\S]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

MqttHeaders

Service: AWS IoT

Specifies MQTT Version 5.0 headers information. For more information, see [MQTT](#) from AWS IoT Core Developer Guide.

Contents

contentType

A UTF-8 encoded string that describes the content of the publishing message.

For more information, see [Content Type](#) from the MQTT Version 5.0 specification.

Supports [substitution templates](#).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

correlationData

The base64-encoded binary data used by the sender of the request message to identify which request the response message is for when it's received.

For more information, see [Correlation Data](#) from the MQTT Version 5.0 specification.

Note

This binary data must be based64-encoded.

Supports [substitution templates](#).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

messageExpiry

A user-defined integer value that will persist a message at the message broker for a specified amount of time to ensure that the message will expire if it's no longer relevant to the subscriber. The value of `messageExpiry` represents the number of seconds before it expires. For more information about the limits of `messageExpiry`, see [AWS IoT Core message broker and protocol limits and quotas](#) from the AWS Reference Guide.

Supports [substitution templates](#).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

payloadFormatIndicator

An Enum string value that indicates whether the payload is formatted as UTF-8.

Valid values are `UNSPECIFIED_BYTES` and `UTF8_DATA`.

For more information, see [Payload Format Indicator](#) from the MQTT Version 5.0 specification.

Supports [substitution templates](#).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

responseTopic

A UTF-8 encoded string that's used as the topic name for a response message. The response topic is used to describe the topic which the receiver should publish to as part of the request-response flow. The topic must not contain wildcard characters.

For more information, see [Response Topic](#) from the MQTT Version 5.0 specification.

Supports [substitution templates](#).

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: No

userProperties

An array of key-value pairs that you define in the MQTT5 header.

Type: Array of [UserProperty](#) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

NonCompliantResource

Service: AWS IoT

Information about the resource that was noncompliant with the audit check.

Contents

additionalInfo

Other information about the noncompliant resource.

Type: String to string map

Required: No

resourceIdentifier

Information that identifies the noncompliant resource.

Type: [ResourceIdentifier](#) object

Required: No

resourceType

The type of the noncompliant resource.

Type: String

Valid Values: DEVICE_CERTIFICATE | CA_CERTIFICATE | IOT_POLICY | COGNITO_IDENTITY_POOL | CLIENT_ID | ACCOUNT_SETTINGS | ROLE_ALIAS | IAM_ROLE | ISSUER_CERTIFICATE

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

OpenSearchAction

Service: AWS IoT

Describes an action that writes data to an Amazon OpenSearch Service domain.

Contents

endpoint

The endpoint of your OpenSearch domain.

Type: String

Pattern: `https?://.*`

Required: Yes

id

The unique identifier for the document you are storing.

Type: String

Required: Yes

index

The OpenSearch index where you want to store your data.

Type: String

Required: Yes

roleArn

The IAM role ARN that has access to OpenSearch.

Type: String

Required: Yes

type

The type of document you are storing.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

OTAUpdateFile

Service: AWS IoT

Describes a file to be associated with an OTA update.

Contents

attributes

A list of name-attribute pairs. They won't be sent to devices as a part of the Job document.

Type: String to string map

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Value Pattern: `[\s\S]*`

Required: No

codeSigning

The code signing method of the file.

Type: [CodeSigning](#) object

Required: No

fileLocation

The location of the updated firmware.

Type: [FileLocation](#) object

Required: No

fileName

The name of the file.

Type: String

Required: No

fileType

An integer value you can include in the job document to allow your devices to identify the type of file received from the cloud.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 255.

Required: No

fileVersion

The file version.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

OTAUpdateInfo

Service: AWS IoT

Information about an OTA update.

Contents

additionalParameters

A collection of name/value pairs

Type: String to string map

Value Length Constraints: Minimum length of 0. Maximum length of 4096.

Value Pattern: `[\s\S]*`

Required: No

awsIotJobArn

The AWS IoT job ARN associated with the OTA update.

Type: String

Required: No

awsIotJobId

The AWS IoT job ID associated with the OTA update.

Type: String

Required: No

awsJobExecutionsRolloutConfig

Configuration for the rollout of OTA updates.

Type: [AwsJobExecutionsRolloutConfig](#) object

Required: No

awsJobPresignedUrlConfig

Configuration information for pre-signed URLs. Valid when protocols contains HTTP.

Type: [AwsJobPresignedUrlConfig](#) object

Required: No

creationDate

The date when the OTA update was created.

Type: Timestamp

Required: No

description

A description of the OTA update.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: No

errorInfo

Error information associated with the OTA update.

Type: [ErrorInfo](#) object

Required: No

lastModifiedDate

The date when the OTA update was last updated.

Type: Timestamp

Required: No

otaUpdateArn

The OTA update ARN.

Type: String

Required: No

otaUpdateFiles

A list of files associated with the OTA update.

Type: Array of [OTAUpdateFile](#) objects

Array Members: Minimum number of 1 item.

Required: No

otaUpdateId

The OTA update ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

otaUpdateStatus

The status of the OTA update.

Type: String

Valid Values: CREATE_PENDING | CREATE_IN_PROGRESS | CREATE_COMPLETE |
CREATE_FAILED | DELETE_IN_PROGRESS | DELETE_FAILED

Required: No

protocols

The protocol used to transfer the OTA update image. Valid values are [HTTP], [MQTT], [HTTP, MQTT]. When both HTTP and MQTT are specified, the target device can choose the protocol.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 2 items.

Valid Values: MQTT | HTTP

Required: No

targets

The targets of the OTA update.

Type: Array of strings

Array Members: Minimum number of 1 item.

Required: No

targetSelection

Specifies whether the OTA update will continue to run (CONTINUOUS), or will be complete after all those things specified as targets have completed the OTA update (SNAPSHOT). If continuous, the OTA update may also be run on a thing when a change is detected in a target. For example, an OTA update will run on a thing when the thing is added to a target group, even after the OTA update was completed by all things originally in the group.

Type: String

Valid Values: CONTINUOUS | SNAPSHOT

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

OTAUpdateSummary

Service: AWS IoT

An OTA update summary.

Contents

creationDate

The date when the OTA update was created.

Type: Timestamp

Required: No

otaUpdateArn

The OTA update ARN.

Type: String

Required: No

otaUpdateId

The OTA update ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

OutgoingCertificate

Service: AWS IoT

A certificate that has been transferred but not yet accepted.

Contents

certificateArn

The certificate ARN.

Type: String

Required: No

certificateId

The certificate ID.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: No

creationDate

The certificate creation date.

Type: Timestamp

Required: No

transferDate

The date the transfer was initiated.

Type: Timestamp

Required: No

transferMessage

The transfer message.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\s\S]*`

Required: No

transferredTo

The AWS account to which the transfer was made.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PackageSummary

Service: AWS IoT

A summary of information about a software package.

Contents

creationDate

The date that the package was created.

Type: Timestamp

Required: No

defaultVersionName

The name of the default package version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-_.]+

Required: No

lastModifiedDate

The date that the package was last updated.

Type: Timestamp

Required: No

packageName

The name for the target software package.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9-_.]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PackageVersionArtifact

Service: AWS IoT

A specific package version artifact associated with a software package version.

Contents

s3Location

The S3 location.

Type: [S3Location](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PackageVersionSummary

Service: AWS IoT

A summary of information about a package version.

Contents

creationDate

The date that the package version was created.

Type: Timestamp

Required: No

lastModifiedDate

The date that the package version was last updated.

Type: Timestamp

Required: No

packageName

The name of the associated software package.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9-_.]+

Required: No

status

The status of the package version. For more information, see [Package version lifecycle](#).

Type: String

Valid Values: DRAFT | PUBLISHED | DEPRECATED

Required: No

versionName

The name of the target package version.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9-_.]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PercentPair

Service: AWS IoT

Describes the percentile and percentile value.

Contents

percent

The percentile.

Type: Double

Valid Range: Minimum value of 0. Maximum value of 100.

Required: No

value

The value of the percentile.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Policy

Service: AWS IoT

Describes an AWS IoT policy.

Contents

policyArn

The policy ARN.

Type: String

Required: No

policyName

The policy name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PolicyVersion

Service: AWS IoT

Describes a policy version.

Contents

createDate

The date and time the policy was created.

Type: Timestamp

Required: No

isDefaultVersion

Specifies whether the policy version is the default.

Type: Boolean

Required: No

versionId

The policy version ID.

Type: String

Pattern: [0-9]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PolicyVersionIdentifier

Service: AWS IoT

Information about the version of the policy associated with the resource.

Contents

policyName

The name of the policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w+=, .@- ]+`

Required: No

policyVersionId

The ID of the version of the policy associated with the resource.

Type: String

Pattern: `[0-9 ]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PresignedUrlConfig

Service: AWS IoT

Configuration for pre-signed S3 URLs.

Contents

expiresInSec

How long (in seconds) pre-signed URLs are valid. Valid values are 60 - 3600, the default value is 3600 seconds. Pre-signed URLs are generated when Jobs receives an MQTT request for the job document.

Type: Long

Valid Range: Minimum value of 60. Maximum value of 3600.

Required: No

roleArn

The ARN of an IAM role that grants permission to download files from the S3 bucket where the job data/updates are stored. The role must also grant permission for IoT to download the files.

Important

For information about addressing the confused deputy problem, see [cross-service confused deputy prevention](#) in the *AWS IoT Core developer guide*.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PrincipalThingObject

Service: AWS IoT

An object that represents the thing and the type of relation it has with the principal.

Contents

thingName

The name of the thing.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

thingPrincipalType

The type of the relation you want to specify when you attach a principal to a thing. The value defaults to `NON_EXCLUSIVE_THING`.

- `EXCLUSIVE_THING` - Attaches the specified principal to the specified thing, exclusively. The thing will be the only thing that's attached to the principal.
- `NON_EXCLUSIVE_THING` - Attaches the specified principal to the specified thing. Multiple things can be attached to the principal.

Type: String

Valid Values: `EXCLUSIVE_THING` | `NON_EXCLUSIVE_THING`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

PropagatingAttribute

Service: AWS IoT

An object that represents the connection attribute, thing attribute, and the user property key.

Contents

connectionAttribute

The attribute associated with the connection between a device and AWS IoT Core.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9: .]+

Required: No

thingAttribute

The user-defined thing attribute that is propagating for MQTT 5 message enrichment.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_.,@/:#-]+

Required: No

userPropertyKey

The key of the user property key-value pair.

Type: String

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9:\$.]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ProvisioningHook

Service: AWS IoT

Structure that contains `payloadVersion` and `targetArn`.

Contents

targetArn

The ARN of the target function.

Note: Only Lambda functions are currently supported.

Type: String

Length Constraints: Maximum length of 2048.

Required: Yes

payloadVersion

The payload that was sent to the target function.

Note: Only Lambda functions are currently supported.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 32.

Pattern: `^[0-9-]+$`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ProvisioningTemplateSummary

Service: AWS IoT

A summary of information about a provisioning template.

Contents

creationDate

The date when the provisioning template summary was created.

Type: Timestamp

Required: No

description

The description of the provisioning template.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 500.

Pattern: `[^\p{C}]*`

Required: No

enabled

True if the fleet provision template is enabled, otherwise false.

Type: Boolean

Required: No

lastModifiedDate

The date when the provisioning template summary was last modified.

Type: Timestamp

Required: No

templateArn

The ARN of the provisioning template.

Type: String

Required: No

templateName

The name of the provisioning template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

Required: No

type

The type you define in a provisioning template. You can create a template with only one type. You can't change the template type after its creation. The default value is `FLEET_PROVISIONING`. For more information about provisioning template, see: [Provisioning template](#).

Type: String

Valid Values: `FLEET_PROVISIONING` | `JITP`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ProvisioningTemplateVersionSummary

Service: AWS IoT

A summary of information about a fleet provision template version.

Contents

creationDate

The date when the provisioning template version was created

Type: Timestamp

Required: No

isDefaultVersion

True if the provisioning template version is the default version, otherwise false.

Type: Boolean

Required: No

versionId

The ID of the fleet provisioning template version.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PublishFindingToSnsParams

Service: AWS IoT

Parameters to define a mitigation action that publishes findings to Amazon SNS. You can implement your own custom actions in response to the Amazon SNS messages.

Contents

topicArn

The ARN of the topic to which you want to publish the findings.

Type: String

Length Constraints: Maximum length of 350.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PutAssetPropertyValueEntry

Service: AWS IoT

An asset property value entry containing the following information.

Contents

propertyValues

A list of property values to insert that each contain timestamp, quality, and value (TQV) information.

Type: Array of [AssetPropertyValue](#) objects

Array Members: Minimum number of 1 item.

Required: Yes

assetId

The ID of the AWS IoT SiteWise asset. You must specify either a `propertyAlias` or both an `aliasId` and a `propertyId`. Accepts substitution templates.

Type: String

Required: No

entryId

Optional. A unique identifier for this entry that you can define to better track which message caused an error in case of failure. Accepts substitution templates. Defaults to a new UUID.

Type: String

Required: No

propertyAlias

The name of the property alias associated with your asset property. You must specify either a `propertyAlias` or both an `aliasId` and a `propertyId`. Accepts substitution templates.

Type: String

Length Constraints: Minimum length of 1.

Required: No

propertyId

The ID of the asset's property. You must specify either a `propertyAlias` or both an `aliasId` and a `propertyId`. Accepts substitution templates.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

PutItemInput

Service: AWS IoT

The input for the DynamoActionVS action that specifies the DynamoDB table to which the message data will be written.

Contents

tableName

The table where the message data will be written.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RateIncreaseCriteria

Service: AWS IoT

Allows you to define a criteria to initiate the increase in rate of rollout for a job.

Contents

numberOfNotifiedThings

The threshold for number of notified things that will initiate the increase in rate of rollout.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

numberOfSucceededThings

The threshold for number of succeeded things that will initiate the increase in rate of rollout.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RegistrationConfig

Service: AWS IoT

The registration configuration.

Contents

roleArn

The ARN of the role.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

templateBody

The template body.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 10240.

Pattern: `[\s\S]*`

Required: No

templateName

The name of the provisioning template.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `^[0-9A-Za-z_-]+$`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RelatedResource

Service: AWS IoT

Information about a related resource.

Contents

additionalInfo

Other information about the resource.

Type: String to string map

Required: No

resourceIdentifier

Information that identifies the resource.

Type: [ResourceIdentifier](#) object

Required: No

resourceType

The type of resource.

Type: String

Valid Values: DEVICE_CERTIFICATE | CA_CERTIFICATE | IOT_POLICY |
COGNITO_IDENTITY_POOL | CLIENT_ID | ACCOUNT_SETTINGS | ROLE_ALIAS |
IAM_ROLE | ISSUER_CERTIFICATE

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

ReplaceDefaultPolicyVersionParams

Service: AWS IoT

Parameters to define a mitigation action that adds a blank policy to restrict permissions.

Contents

templateName

The name of the template to be applied. The only supported value is BLANK_POLICY.

Type: String

Valid Values: BLANK_POLICY

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RepublishAction

Service: AWS IoT

Describes an action to republish to another topic.

Contents

roleArn

The ARN of the IAM role that grants access.

Type: String

Required: Yes

topic

The name of the MQTT topic.

Type: String

Required: Yes

headers

MQTT Version 5.0 headers information. For more information, see [MQTT](#) from the AWS IoT Core Developer Guide.

Type: [MqttHeaders](#) object

Required: No

qos

The Quality of Service (QoS) level to use when republishing messages. The default value is 0.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ResourceIdentifier

Service: AWS IoT

Information that identifies the noncompliant resource.

Contents

account

The account with which the resource is associated.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9]+

Required: No

caCertificateId

The ID of the CA certificate used to authorize the certificate.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9]+

Required: No

clientId

The client ID.

Type: String

Required: No

cognitoIdentityPoolId

The ID of the Amazon Cognito identity pool.

Type: String

Required: No

deviceCertificateArn

The ARN of the identified device certificate.

Type: String

Required: No

deviceCertificateId

The ID of the certificate attached to the resource.

Type: String

Length Constraints: Fixed length of 64.

Pattern: (0x)?[a-fA-F0-9] +

Required: No

iamRoleArn

The ARN of the IAM role that has overly permissive actions.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

issuerCertificateIdentifier

The issuer certificate identifier.

Type: [IssuerCertificateIdentifier](#) object

Required: No

policyVersionIdentifier

The version of the policy associated with the resource.

Type: [PolicyVersionIdentifier](#) object

Required: No

roleAliasArn

The ARN of the role alias that has overly permissive actions.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RetryCriteria

Service: AWS IoT

The criteria that determines how many retries are allowed for each failure type for a job.

Contents

failureType

The type of job execution failures that can initiate a job retry.

Type: String

Valid Values: FAILED | TIMED_OUT | ALL

Required: Yes

numberOfRetries

The number of retries allowed for a failure type for the job.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 10.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

RoleAliasDescription

Service: AWS IoT

Role alias description.

Contents

creationDate

The UNIX timestamp of when the role alias was created.

Type: Timestamp

Required: No

credentialDurationSeconds

The number of seconds for which the credential is valid.

Type: Integer

Valid Range: Minimum value of 900. Maximum value of 43200.

Required: No

lastModifiedDate

The UNIX timestamp of when the role alias was last modified.

Type: Timestamp

Required: No

owner

The role alias owner.

Type: String

Length Constraints: Fixed length of 12.

Pattern: [0-9] +

Required: No

roleAlias

The role alias.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\w=,@- ]+`

Required: No

roleAliasArn

The ARN of the role alias.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Required: No

roleArn

The role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

S3Action

Service: AWS IoT

Describes an action to write data to an Amazon S3 bucket.

Contents

bucketName

The Amazon S3 bucket.

Type: String

Required: Yes

key

The object key. For more information, see [Actions, resources, and condition keys for Amazon S3](#).

Type: String

Required: Yes

roleArn

The ARN of the IAM role that grants access.

Type: String

Required: Yes

cannedAcl

The Amazon S3 canned ACL that controls access to the object identified by the object key. For more information, see [S3 canned ACLs](#).

Type: String

Valid Values: private | public-read | public-read-write | aws-exec-read | authenticated-read | bucket-owner-read | bucket-owner-full-control | log-delivery-write

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

S3Destination

Service: AWS IoT

Describes the location of updated firmware in S3.

Contents

bucket

The S3 bucket that contains the updated firmware.

Type: String

Length Constraints: Minimum length of 1.

Required: No

prefix

The S3 prefix.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

S3Location

Service: AWS IoT

The S3 location.

Contents

bucket

The S3 bucket.

Type: String

Length Constraints: Minimum length of 1.

Required: No

key

The S3 key.

Type: String

Length Constraints: Minimum length of 1.

Required: No

version

The S3 bucket version.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SalesforceAction

Service: AWS IoT

Describes an action to write a message to a Salesforce IoT Cloud Input Stream.

Contents

token

The token used to authenticate access to the Salesforce IoT Cloud Input Stream. The token is available from the Salesforce IoT Cloud platform after creation of the Input Stream.

Type: String

Length Constraints: Minimum length of 40.

Required: Yes

url

The URL exposed by the Salesforce IoT Cloud Input Stream. The URL is available from the Salesforce IoT Cloud platform after creation of the Input Stream.

Type: String

Length Constraints: Maximum length of 2000.

Pattern: `https://ingestion-[a-zA-Z0-9]{1,12}\.[a-zA-Z0-9]+\\.((sfdc-matrix\net)|(sfdcnow.com))/streams/\w{1,20}/\w{1,20}/event`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Sbom

Service: AWS IoT

A specific software bill of materials associated with a software package version.

Contents

s3Location

The S3 location.

Type: [S3Location](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SbomValidationResultSummary

Service: AWS IoT

A summary of the validation results for a specific software bill of materials (SBOM) attached to a software package version.

Contents

errorCode

The `errorCode` representing the validation failure error if the SBOM validation failed.

Type: String

Valid Values: INCOMPATIBLE_FORMAT | FILE_SIZE_LIMIT_EXCEEDED

Required: No

errorMessage

The `errorMessage` representing the validation failure error if the SBOM validation failed.

Type: String

Required: No

fileName

The name of the SBOM file.

Type: String

Required: No

validationResult

The end result of the SBOM validation.

Type: String

Valid Values: FAILED | SUCCEEDED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ScheduledAuditMetadata

Service: AWS IoT

Information about the scheduled audit.

Contents

dayOfMonth

The day of the month on which the scheduled audit is run (if the frequency is "MONTHLY"). If days 29-31 are specified, and the month does not have that many days, the audit takes place on the "LAST" day of the month.

Type: String

Pattern: `^([1-9]|[12][0-9]|3[01])$|^LAST$`

Required: No

dayOfWeek

The day of the week on which the scheduled audit is run (if the frequency is "WEEKLY" or "BIWEEKLY").

Type: String

Valid Values: SUN | MON | TUE | WED | THU | FRI | SAT

Required: No

frequency

How often the scheduled audit occurs.

Type: String

Valid Values: DAILY | WEEKLY | BIWEEKLY | MONTHLY

Required: No

scheduledAuditArn

The ARN of the scheduled audit.

Type: String

Required: No

scheduledAuditName

The name of the scheduled audit.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ScheduledJobRollout

Service: AWS IoT

Displays the next seven maintenance window occurrences and their start times.

Contents

startTime

Displays the start times of the next seven maintenance window occurrences.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SchedulingConfig

Service: AWS IoT

Specifies the date and time that a job will begin the rollout of the job document to all devices in the target group. Additionally, you can specify the end behavior for each job execution when it reaches the scheduled end time.

Contents

endBehavior

Specifies the end behavior for all job executions after a job reaches the selected `endTime`. If `endTime` is not selected when creating the job, then `endBehavior` does not apply.

Type: String

Valid Values: `STOP_ROLLOUT` | `CANCEL` | `FORCE_CANCEL`

Required: No

endTime

The time a job will stop rollout of the job document to all devices in the target group for a job. The `endTime` must take place no later than two years from the current time and be scheduled a minimum of thirty minutes from the current time. The minimum duration between `startTime` and `endTime` is thirty minutes. The maximum duration between `startTime` and `endTime` is two years. The date and time format for the `endTime` is YYYY-MM-DD for the date and HH:MM for the time.

For more information on the syntax for `endTime` when using an API command or the AWS Command Line Interface, see [Timestamp](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

maintenanceWindows

An optional configuration within the `SchedulingConfig` to setup a recurring maintenance window with a predetermined start time and duration for the rollout of a job document to all devices in a target group for a job.

Type: Array of [MaintenanceWindow](#) objects

Required: No

startTime

The time a job will begin rollout of the job document to all devices in the target group for a job. The `startTime` can be scheduled up to a year in advance and must be scheduled a minimum of thirty minutes from the current time. The date and time format for the `startTime` is YYYY-MM-DD for the date and HH:MM for the time.

For more information on the syntax for `startTime` when using an API command or the AWS Command Line Interface, see [Timestamp](#).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SecurityProfileIdentifier

Service: AWS IoT

Identifying information for a Device Defender security profile.

Contents

arn

The ARN of the security profile.

Type: String

Required: Yes

name

The name you've given to the security profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SecurityProfileTarget

Service: AWS IoT

A target to which an alert is sent when a security profile behavior is violated.

Contents

arn

The ARN of the security profile.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SecurityProfileTargetMapping

Service: AWS IoT

Information about a security profile and the target associated with it.

Contents

securityProfileIdentifier

Information that identifies the security profile.

Type: [SecurityProfileIdentifier](#) object

Required: No

target

Information about the target (thing group) associated with the security profile.

Type: [SecurityProfileTarget](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ServerCertificateConfig

Service: AWS IoT

The server certificate configuration.

Contents

enableOCSPCheck

A Boolean value that indicates whether Online Certificate Status Protocol (OCSP) server certificate check is enabled or not.

For more information, see [Server certificate configuration for OCSP stapling](#) from AWS IoT Core Developer Guide.

Type: Boolean

Required: No

ocspAuthorizedResponderArn

The Amazon Resource Name (ARN) for an X.509 certificate stored in AWS Certificate Manager (ACM). If provided, AWS IoT Core will use this certificate to validate the signature of the received OCSP response. The OCSP responder must sign responses using either this authorized responder certificate or the issuing certificate, depending on whether the ARN is provided or not. The certificate must be in the same AWS account and region as the domain configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `arn:aws(-cn|-us-gov|-iso-b|-iso)?:acm:[a-z]{2}-(gov-|iso-|isob-)?[a-z]{4,9}-\d{1}:\d{12}:certificate/[a-zA-Z0-9/-]+`

Required: No

ocspLambdaArn

The Amazon Resource Name (ARN) for a Lambda function that acts as a Request for Comments (RFC) 6960-compliant Online Certificate Status Protocol (OCSP) responder, supporting basic OCSP responses. The Lambda function accepts a base64-encoding of the OCSP request in the Distinguished Encoding Rules (DER) format. The Lambda function's response is also a

base64-encoded OCSP response in the DER format. The response size must not exceed 4 kilobytes (KiB). The Lambda function must be in the same AWS account and region as the domain configuration. For more information, see [Configuring server certificate OCSP for private endpoints in AWS IoT Core](#) from the AWS IoT Core developer guide.

Type: String

Length Constraints: Maximum length of 140.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ServerCertificateSummary

Service: AWS IoT

An object that contains information about a server certificate.

Contents

serverCertificateArn

The ARN of the server certificate.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 2048.

Pattern: `arn:aws(-cn|-us-gov|-iso-b|-iso)?:acm:[a-z]{2}-(gov-|iso-|isob-)?[a-z]{4,9}-\d{1}:\d{12}:certificate/[a-zA-Z0-9/-]+`

Required: No

serverCertificateStatus

The status of the server certificate.

Type: String

Valid Values: INVALID | VALID

Required: No

serverCertificateStatusDetail

Details that explain the status of the server certificate.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SigningProfileParameter

Service: AWS IoT

Describes the code-signing profile.

Contents

certificateArn

Certificate ARN.

Type: String

Required: No

certificatePathOnDevice

The location of the code-signing certificate on your device.

Type: String

Required: No

platform

The hardware platform of your device.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SigV4Authorization

Service: AWS IoT

For more information, see [Signature Version 4 signing process](#).

Contents

roleArn

The ARN of the signing role.

Type: String

Required: Yes

serviceName

The service name to use while signing with Sig V4.

Type: String

Required: Yes

signingRegion

The signing region.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SnsAction

Service: AWS IoT

Describes an action to publish to an Amazon SNS topic.

Contents

roleArn

The ARN of the IAM role that grants access.

Type: String

Required: Yes

targetArn

The ARN of the SNS topic.

Type: String

Required: Yes

messageFormat

(Optional) The message format of the message to publish. Accepted values are "JSON" and "RAW". The default value of the attribute is "RAW". SNS uses this setting to determine if the payload should be parsed and relevant platform-specific bits of the payload should be extracted. To read more about SNS message formats, see <https://docs.aws.amazon.com/sns/latest/dg/json-formats.html> refer to their official documentation.

Type: String

Valid Values: RAW | JSON

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SqsAction

Service: AWS IoT

Describes an action to publish data to an Amazon SQS queue.

Contents

queueUrl

The URL of the Amazon SQS queue.

Type: String

Required: Yes

roleArn

The ARN of the IAM role that grants access.

Type: String

Required: Yes

useBase64

Specifies whether to use Base64 encoding.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StartSigningJobParameter

Service: AWS IoT

Information required to start a signing job.

Contents

destination

The location to write the code-signed file.

Type: [Destination](#) object

Required: No

signingProfileName

The code-signing profile name.

Type: String

Required: No

signingProfileParameter

Describes the code-signing profile.

Type: [SigningProfileParameter](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StatisticalThreshold

Service: AWS IoT

A statistical ranking (percentile) that indicates a threshold value by which a behavior is determined to be in compliance or in violation of the behavior.

Contents

statistic

The percentile that resolves to a threshold value by which compliance with a behavior is determined. Metrics are collected over the specified period (`durationSeconds`) from all reporting devices in your account and statistical ranks are calculated. Then, the measurements from a device are collected over the same period. If the accumulated measurements from the device fall above or below (`comparisonOperator`) the value associated with the percentile specified, then the device is considered to be in compliance with the behavior, otherwise a violation occurs.

Type: String

Pattern: (p0|p0\.1|p0\.01|p1|p10|p50|p90|p99|p99\.9|p99\.99|p100)

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Statistics

Service: AWS IoT

A map of key-value pairs for all supported statistics. For issues with missing or unexpected values for this API, consult [Fleet indexing troubleshooting guide](#).

Contents

average

The average of the aggregated field values.

Type: Double

Required: No

count

The count of things that match the query string criteria and contain a valid aggregation field value.

Type: Integer

Required: No

maximum

The maximum aggregated field value.

Type: Double

Required: No

minimum

The minimum aggregated field value.

Type: Double

Required: No

stdDeviation

The standard deviation of the aggregated field values.

Type: Double

Required: No

sum

The sum of the aggregated field values.

Type: Double

Required: No

sumOfSquares

The sum of the squares of the aggregated field values.

Type: Double

Required: No

variance

The variance of the aggregated field values.

Type: Double

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StatusReason

Service: AWS IoT

Provide additional context about the status of a command execution using a reason code and description.

Contents

reasonCode

A code that provides additional context for the command execution status.

Type: String

Length Constraints: Maximum length of 64.

Pattern: [A-Z0-9_-]+

Required: Yes

reasonDescription

A literal string for devices to optionally provide additional information about the reason code for a command execution status.

Type: String

Length Constraints: Maximum length of 1024.

Pattern: [^\p{C}]*

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StepFunctionsAction

Service: AWS IoT

Starts execution of a Step Functions state machine.

Contents

roleArn

The ARN of the role that grants IoT permission to start execution of a state machine ("Action": "states:StartExecution").

Type: String

Required: Yes

stateMachineName

The name of the Step Functions state machine whose execution will be started.

Type: String

Required: Yes

executionNamePrefix

(Optional) A name will be given to the state machine execution consisting of this prefix followed by a UUID. Step Functions automatically creates a unique name for each state machine execution if one is not provided.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Stream

Service: AWS IoT

Describes a group of files that can be streamed.

Contents

fileId

The ID of a file associated with a stream.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 255.

Required: No

streamId

The stream ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamFile

Service: AWS IoT

Represents a file to stream.

Contents

fileId

The file ID.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 255.

Required: No

s3Location

The location of the file in S3.

Type: [S3Location](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamInfo

Service: AWS IoT

Information about a stream.

Contents

createdAt

The date when the stream was created.

Type: Timestamp

Required: No

description

The description of the stream.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: No

files

The files to stream.

Type: Array of [StreamFile](#) objects

Array Members: Minimum number of 1 item. Maximum number of 50 items.

Required: No

lastUpdatedAt

The date when the stream was last updated.

Type: Timestamp

Required: No

roleArn

An IAM role AWS IoT assumes to access your S3 files.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

streamArn

The stream ARN.

Type: String

Required: No

streamId

The stream ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9_-]+

Required: No

streamVersion

The stream version.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

StreamSummary

Service: AWS IoT

A summary of a stream.

Contents

description

A description of the stream.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[^\p{C}]+`

Required: No

streamArn

The stream ARN.

Type: String

Required: No

streamId

The stream ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9_-]+`

Required: No

streamVersion

The stream version.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Tag

Service: AWS IoT

A set of key/value pairs that are used to manage the resource.

Contents

Key

The tag's key.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^([\p{L}\p{Z}\p{N}_.: /+=\ -@]*)$`

Required: Yes

Value

The tag's value.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TaskStatistics

Service: AWS IoT

Statistics for the checks performed during the audit.

Contents

canceledChecks

The number of checks that did not run because the audit was canceled.

Type: Integer

Required: No

compliantChecks

The number of checks that found compliant resources.

Type: Integer

Required: No

failedChecks

The number of checks.

Type: Integer

Required: No

inProgressChecks

The number of checks in progress.

Type: Integer

Required: No

nonCompliantChecks

The number of checks that found noncompliant resources.

Type: Integer

Required: No

totalChecks

The number of checks in this audit.

Type: Integer

Required: No

waitingForDataCollectionChecks

The number of checks waiting for data collection.

Type: Integer

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TaskStatisticsForAuditCheck

Service: AWS IoT

Provides summary counts of how many tasks for findings are in a particular state. This information is included in the response from DescribeAuditMitigationActionsTask.

Contents

canceledFindingsCount

The number of findings to which the mitigation action task was canceled when applied.

Type: Long

Required: No

failedFindingsCount

The number of findings for which at least one of the actions failed when applied.

Type: Long

Required: No

skippedFindingsCount

The number of findings skipped because of filter conditions provided in the parameters to the command.

Type: Long

Required: No

succeededFindingsCount

The number of findings for which all mitigation actions succeeded when applied.

Type: Long

Required: No

totalFindingsCount

The total number of findings to which a task is being applied.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TermsAggregation

Service: AWS IoT

Performs an aggregation that will return a list of buckets. The list of buckets is a ranked list of the number of occurrences of an aggregation field value.

Contents

maxBuckets

The number of buckets to return in the response. Default to 10.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10000.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingAttribute

Service: AWS IoT

The properties of the thing, including thing name, thing type name, and a list of thing attributes.

Contents

attributes

A list of thing attributes which are name-value pairs.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: [a-zA-Z0-9_.,@/:#-]+

Value Length Constraints: Maximum length of 800.

Value Pattern: [a-zA-Z0-9_.,@/:#=\[\]-]*

Required: No

thingArn

The thing ARN.

Type: String

Required: No

thingName

The name of the thing.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingTypeName

The name of the thing type, if the thing has been associated with a type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

version

The version of the thing record in the registry.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingConnectivity

Service: AWS IoT

The connectivity status of the thing.

Contents

cleanSession

Indicates whether the client is using a clean session. Returns `true` for clean sessions.

Type: Boolean

Required: No

clientId

The unique identifier of the MQTT client.

Type: String

Required: No

connected

True if the thing is connected to the AWS IoT Core service; false if it is not connected.

Type: Boolean

Required: No

disconnectReason

The reason that the client is disconnected.

Type: String

Required: No

keepAliveDuration

The keep-alive interval in seconds that the client specified when establishing the connection.

Type: Integer

Required: No

sessionExpiry

The session expiry interval in seconds for the MQTT client connection. This value indicates how long the session will remain active after the client disconnects.

Type: Long

Required: No

timestamp

The epoch time (in milliseconds) when the thing last connected or disconnected.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingDocument

Service: AWS IoT

The thing search index document.

Contents

attributes

The attributes.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: `[a-zA-Z0-9_.,@/:#-]+`

Value Length Constraints: Maximum length of 800.

Value Pattern: `[a-zA-Z0-9_.,@/:#=\[\]-]*`

Required: No

connectivity

Indicates whether the thing is connected to the AWS IoT Core service.

Type: [ThingConnectivity](#) object

Required: No

deviceDefender

Contains Device Defender data.

For more information about Device Defender, see [Device Defender](#).

Type: String

Required: No

shadow

The unnamed shadow and named shadow.

For more information about shadows, see [AWS IoT Device Shadow service](#).

Type: String

Required: No

thingGroupNames

Thing group and billing group names.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingId

The thing ID.

Type: String

Required: No

thingName

The thing name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingTypeName

The thing type name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingGroupDocument

Service: AWS IoT

The thing group search index document.

Contents

attributes

The thing group attributes.

Type: String to string map

Key Length Constraints: Maximum length of 128.

Key Pattern: `[a-zA-Z0-9_.,@/:#-]+`

Value Length Constraints: Maximum length of 800.

Value Pattern: `[a-zA-Z0-9_.,@/:#=\[\]-]*`

Required: No

parentGroupNames

Parent group names.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: No

thingGroupDescription

The thing group description.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[\p{Graph}\x20]*`

Required: No

thingGroupId

The thing group ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-]+

Required: No

thingGroupName

The thing group name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingGroupIndexingConfiguration

Service: AWS IoT

Thing group indexing configuration.

Contents

thingGroupIndexingMode

Thing group indexing mode.

Type: String

Valid Values: OFF | ON

Required: Yes

customFields

A list of thing group fields to index. This list cannot contain any managed fields. Use the `GetIndexingConfiguration` API to get a list of managed fields.

Contains custom field names and their data type.

Type: Array of [Field](#) objects

Required: No

managedFields

Contains fields that are indexed and whose types are already known by the Fleet Indexing service. This is an optional field. For more information, see [Managed fields](#) in the *AWS IoT Core Developer Guide*.

Note

You can't modify managed fields by updating fleet indexing configuration.

Type: Array of [Field](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingGroupMetadata

Service: AWS IoT

Thing group metadata.

Contents

creationDate

The UNIX timestamp of when the thing group was created.

Type: Timestamp

Required: No

parentGroupName

The parent thing group name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

rootToParentThingGroups

The root parent thing group.

Type: Array of [GroupNameAndArn](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingGroupProperties

Service: AWS IoT

Thing group properties.

Contents

attributePayload

The thing group attributes in JSON format.

Type: [AttributePayload](#) object

Required: No

thingGroupDescription

The thing group description.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: `[\p{Graph}\x20]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingIndexingConfiguration

Service: AWS IoT

The thing indexing configuration. For more information, see [Managing Thing Indexing](#).

Contents

thingIndexingMode

Thing indexing mode. Valid values are:

- REGISTRY – Your thing index contains registry data only.
- REGISTRY_AND_SHADOW - Your thing index contains registry and shadow data.
- OFF - Thing indexing is disabled.

Type: String

Valid Values: OFF | REGISTRY | REGISTRY_AND_SHADOW

Required: Yes

customFields

Contains custom field names and their data type.

Type: Array of [Field](#) objects

Required: No

deviceDefenderIndexingMode

Device Defender indexing mode. Valid values are:

- VIOLATIONS – Your thing index contains Device Defender violations. To enable Device Defender indexing, *deviceDefenderIndexingMode* must not be set to OFF.
- OFF - Device Defender indexing is disabled.

For more information about Device Defender violations, see [Device Defender Detect](#).

Type: String

Valid Values: OFF | VIOLATIONS

Required: No

filter

Provides additional selections for named shadows and geolocation data.

To add named shadows to your fleet indexing configuration, set `namedShadowIndexingMode` to be ON and specify your shadow names in `namedShadowNames` filter.

To add geolocation data to your fleet indexing configuration:

- If you store geolocation data in a class/unnamed shadow, set `thingIndexingMode` to be `REGISTRY_AND_SHADOW` and specify your geolocation data in `geoLocations` filter.
- If you store geolocation data in a named shadow, set `namedShadowIndexingMode` to be ON, add the shadow name in `namedShadowNames` filter, and specify your geolocation data in `geoLocations` filter. For more information, see [Managing fleet indexing](#).

Type: [IndexingFilter](#) object

Required: No

managedFields

Contains fields that are indexed and whose types are already known by the Fleet Indexing service. This is an optional field. For more information, see [Managed fields](#) in the *AWS IoT Core Developer Guide*.

Note

You can't modify managed fields by updating fleet indexing configuration.

Type: Array of [Field](#) objects

Required: No

namedShadowIndexingMode

Named shadow indexing mode. Valid values are:

- ON – Your thing index contains named shadow. To enable thing named shadow indexing, `namedShadowIndexingMode` must not be set to OFF.
- OFF - Named shadow indexing is disabled.

For more information about Shadows, see [AWS IoT Device Shadow service](#).

Type: String

Valid Values: OFF | ON

Required: No

thingConnectivityIndexingMode

Thing connectivity indexing mode. Valid values are:

- STATUS – Your thing index contains connectivity status. To enable thing connectivity indexing, *thingIndexMode* must not be set to OFF.
- OFF - Thing connectivity status indexing is disabled.

Type: String

Valid Values: OFF | STATUS

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingPrincipalObject

Service: AWS IoT

An object that represents the principal and the type of relation it has with the thing.

Contents

principal

The principal of the thing principal object.

Type: String

Required: Yes

thingPrincipalType

The type of the relation you want to specify when you attach a principal to a thing. The value defaults to `NON_EXCLUSIVE_THING`.

- `EXCLUSIVE_THING` - Attaches the specified principal to the specified thing, exclusively. The thing will be the only thing that's attached to the principal.
- `NON_EXCLUSIVE_THING` - Attaches the specified principal to the specified thing. Multiple things can be attached to the principal.

Type: String

Valid Values: `EXCLUSIVE_THING` | `NON_EXCLUSIVE_THING`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingTypeDefinition

Service: AWS IoT

The definition of the thing type, including thing type name and description.

Contents

thingTypeArn

The thing type ARN.

Type: String

Required: No

thingTypeMetadata

The ThingTypeMetadata contains additional information about the thing type including: creation date and time, a value indicating whether the thing type is deprecated, and a date and time when it was deprecated.

Type: [ThingTypeMetadata](#) object

Required: No

thingTypeName

The name of the thing type.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingTypeProperties

The ThingTypeProperties for the thing type.

Type: [ThingTypeProperties](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingTypeMetadata

Service: AWS IoT

The ThingTypeMetadata contains additional information about the thing type including: creation date and time, a value indicating whether the thing type is deprecated, and a date and time when time was deprecated.

Contents

creationDate

The date and time when the thing type was created.

Type: Timestamp

Required: No

deprecated

Whether the thing type is deprecated. If **true**, no new things could be associated with this type.

Type: Boolean

Required: No

deprecationDate

The date and time when the thing type was deprecated.

Type: Timestamp

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ThingTypeProperties

Service: AWS IoT

The ThingTypeProperties contains information about the thing type including: a thing type description, and a list of searchable thing attribute names.

Contents

mqtt5Configuration

The configuration to add user-defined properties to enrich MQTT 5 messages.

Type: [Mqtt5Configuration](#) object

Required: No

searchableAttributes

A list of searchable thing attribute names.

Type: Array of strings

Length Constraints: Maximum length of 128.

Pattern: [a-zA-Z0-9_.,@/:#-]+

Required: No

thingTypeDescription

The description of the thing type.

Type: String

Length Constraints: Maximum length of 2028.

Pattern: [\p{Graph}\x20]*

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TimeFilter

Service: AWS IoT

A filter that can be used to list command executions for a device that started or completed before or after a particular date and time.

Contents

after

Filter to display command executions that started or completed only after a particular date and time.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

before

Filter to display command executions that started or completed only before a particular date and time.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TimeoutConfig

Service: AWS IoT

Specifies the amount of time each device has to finish its execution of the job. A timer is started when the job execution status is set to IN_PROGRESS. If the job execution status is not set to another terminal state before the timer expires, it will be automatically set to TIMED_OUT.

Contents

inProgressTimeoutInMinutes

Specifies the amount of time, in minutes, this device has to finish execution of this job. The timeout interval can be anywhere between 1 minute and 7 days (1 to 10080 minutes). The in progress timer can't be updated and will apply to all job executions for the job. Whenever a job execution remains in the IN_PROGRESS status for longer than this interval, the job execution will fail and switch to the terminal TIMED_OUT status.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TimestreamAction

Service: AWS IoT

The Timestream rule action writes attributes (measures) from an MQTT message into an Amazon Timestream table. For more information, see the [Timestream](#) topic rule action documentation.

Contents

databaseName

The name of an Amazon Timestream database.

Type: String

Required: Yes

dimensions

Metadata attributes of the time series that are written in each measure record.

Type: Array of [TimestreamDimension](#) objects

Array Members: Minimum number of 1 item. Maximum number of 128 items.

Required: Yes

roleArn

The ARN of the role that grants permission to write to the Amazon Timestream database table.

Type: String

Required: Yes

tableName

The name of the database table into which to write the measure records.

Type: String

Required: Yes

timestamp

Specifies an application-defined value to replace the default value assigned to the Timestream record's timestamp in the `time` column.

You can use this property to specify the value and the precision of the Timestream record's timestamp. You can specify a value from the message payload or a value computed by a substitution template.

If omitted, the topic rule action assigns the timestamp, in milliseconds, at the time it processed the rule.

Type: [TimestreamTimestamp](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TimestreamDimension

Service: AWS IoT

Metadata attributes of the time series that are written in each measure record.

Contents

name

The metadata dimension name. This is the name of the column in the Amazon Timestream database table record.

Dimensions cannot be named: `measure_name`, `measure_value`, or `time`. These names are reserved. Dimension names cannot start with `ts_` or `measure_value` and they cannot contain the colon (:) character.

Type: String

Required: Yes

value

The value to write in this column of the database record.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TimestreamTimestamp

Service: AWS IoT

Describes how to interpret an application-defined timestamp value from an MQTT message payload and the precision of that value.

Contents

unit

The precision of the timestamp value that results from the expression described in `value`.

Valid values: SECONDS | MILLISECONDS | MICROSECONDS | NANOSECONDS. The default is MILLISECONDS.

Type: String

Required: Yes

value

An expression that returns a long epoch time value.

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TlsConfig

Service: AWS IoT

An object that specifies the TLS configuration for a domain.

Contents

securityPolicy

The security policy for a domain configuration. For more information, see [Security policies](#) in the *AWS IoT Core developer guide*.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\s\S]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TlsContext

Service: AWS IoT

Specifies the TLS context to use for the test authorizer request.

Contents

serverName

The value of the `serverName` key in a TLS authorization request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `[\s\S]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TopicRule

Service: AWS IoT

Describes a rule.

Contents

actions

The actions associated with the rule.

Type: Array of [Action](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: No

awsIotSqlVersion

The version of the SQL rules engine to use when evaluating the rule.

Type: String

Required: No

createdAt

The date and time the rule was created.

Type: Timestamp

Required: No

description

The description of the rule.

Type: String

Required: No

errorAction

The action to perform when an error occurs.

Type: [Action](#) object

Required: No

ruleDisabled

Specifies whether the rule is disabled.

Type: Boolean

Required: No

ruleName

The name of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_]+$`

Required: No

sql

The SQL statement used to query the topic. When using a SQL query with multiple lines, be sure to escape the newline characters.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TopicRuleDestination

Service: AWS IoT

A topic rule destination.

Contents

arn

The topic rule destination URL.

Type: String

Required: No

createdAt

The date and time when the topic rule destination was created.

Type: Timestamp

Required: No

httpUrlProperties

Properties of the HTTP URL.

Type: [HttpUrlDestinationProperties](#) object

Required: No

lastUpdatedAt

The date and time when the topic rule destination was last updated.

Type: Timestamp

Required: No

status

The status of the topic rule destination. Valid values are:

IN_PROGRESS

A topic rule destination was created but has not been confirmed. You can set status to IN_PROGRESS by calling UpdateTopicRuleDestination. Calling

UpdateTopicRuleDestination causes a new confirmation challenge to be sent to your confirmation endpoint.

ENABLED

Confirmation was completed, and traffic to this destination is allowed. You can set status to DISABLED by calling UpdateTopicRuleDestination.

DISABLED

Confirmation was completed, and traffic to this destination is not allowed. You can set status to ENABLED by calling UpdateTopicRuleDestination.

ERROR

Confirmation could not be completed, for example if the confirmation timed out. You can call GetTopicRuleDestination for details about the error. You can set status to IN_PROGRESS by calling UpdateTopicRuleDestination. Calling UpdateTopicRuleDestination causes a new confirmation challenge to be sent to your confirmation endpoint.

Type: String

Valid Values: ENABLED | IN_PROGRESS | DISABLED | ERROR | DELETING

Required: No

statusReason

Additional details or reason why the topic rule destination is in the current status.

Type: String

Required: No

vpcProperties

Properties of the virtual private cloud (VPC) connection.

Type: [VpcDestinationProperties](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TopicRuleDestinationConfiguration

Service: AWS IoT

Configuration of the topic rule destination.

Contents

httpUrlConfiguration

Configuration of the HTTP URL.

Type: [HttpUrlDestinationConfiguration](#) object

Required: No

vpcConfiguration

Configuration of the virtual private cloud (VPC) connection.

Type: [VpcDestinationConfiguration](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TopicRuleDestinationSummary

Service: AWS IoT

Information about the topic rule destination.

Contents

arn

The topic rule destination ARN.

Type: String

Required: No

createdAt

The date and time when the topic rule destination was created.

Type: Timestamp

Required: No

httpUrlSummary

Information about the HTTP URL.

Type: [HttpUrlDestinationSummary](#) object

Required: No

lastUpdatedAt

The date and time when the topic rule destination was last updated.

Type: Timestamp

Required: No

status

The status of the topic rule destination. Valid values are:

IN_PROGRESS

A topic rule destination was created but has not been confirmed. You can set status to IN_PROGRESS by calling UpdateTopicRuleDestination. Calling

UpdateTopicRuleDestination causes a new confirmation challenge to be sent to your confirmation endpoint.

ENABLED

Confirmation was completed, and traffic to this destination is allowed. You can set status to DISABLED by calling UpdateTopicRuleDestination.

DISABLED

Confirmation was completed, and traffic to this destination is not allowed. You can set status to ENABLED by calling UpdateTopicRuleDestination.

ERROR

Confirmation could not be completed, for example if the confirmation timed out. You can call GetTopicRuleDestination for details about the error. You can set status to IN_PROGRESS by calling UpdateTopicRuleDestination. Calling UpdateTopicRuleDestination causes a new confirmation challenge to be sent to your confirmation endpoint.

Type: String

Valid Values: ENABLED | IN_PROGRESS | DISABLED | ERROR | DELETING

Required: No

statusReason

The reason the topic rule destination is in the current status.

Type: String

Required: No

vpcDestinationSummary

Information about the virtual private cloud (VPC) connection.

Type: [VpcDestinationSummary](#) object

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TopicRuleListItem

Service: AWS IoT

Describes a rule.

Contents

createdAt

The date and time the rule was created.

Type: Timestamp

Required: No

ruleArn

The rule ARN.

Type: String

Required: No

ruleDisabled

Specifies whether the rule is disabled.

Type: Boolean

Required: No

ruleName

The name of the rule.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[a-zA-Z0-9_]+$`

Required: No

topicPattern

The pattern for the topic names that apply.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TopicRulePayload

Service: AWS IoT

Describes a rule.

Contents

actions

The actions associated with the rule.

Type: Array of [Action](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

Required: Yes

sql

The SQL statement used to query the topic. For more information, see [AWS IoT SQL Reference](#) in the *AWS IoT Developer Guide*.

Type: String

Required: Yes

awsIotSqlVersion

The version of the SQL rules engine to use when evaluating the rule.

Type: String

Required: No

description

The description of the rule.

Type: String

Required: No

errorAction

The action to take when an error occurs.

Type: [Action](#) object

Required: No

ruleDisabled

Specifies whether the rule is disabled.

Type: Boolean

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TransferData

Service: AWS IoT

Data used to transfer a certificate to an AWS account.

Contents

acceptDate

The date the transfer was accepted.

Type: Timestamp

Required: No

rejectDate

The date the transfer was rejected.

Type: Timestamp

Required: No

rejectReason

The reason why the transfer was rejected.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\s\S]*`

Required: No

transferDate

The date the transfer took place.

Type: Timestamp

Required: No

transferMessage

The transfer message.

Type: String

Length Constraints: Maximum length of 128.

Pattern: `[\s\S]*`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UpdateCACertificateParams

Service: AWS IoT

Parameters to define a mitigation action that changes the state of the CA certificate to inactive.

Contents

action

The action that you want to apply to the CA certificate. The only supported value is DEACTIVATE.

Type: String

Valid Values: DEACTIVATE

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UpdateDeviceCertificateParams

Service: AWS IoT

Parameters to define a mitigation action that changes the state of the device certificate to inactive.

Contents

action

The action that you want to apply to the device certificate. The only supported value is DEACTIVATE.

Type: String

Valid Values: DEACTIVATE

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

UserProperty

Service: AWS IoT

A key-value pair that you define in the header. Both the key and the value are either literal strings or valid [substitution templates](#).

Contents

key

A key to be specified in UserProperty.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: Yes

value

A value to be specified in UserProperty.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1024.

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ValidationError

Service: AWS IoT

Information about an error found in a behavior specification.

Contents

errorMessage

The description of an error found in the behaviors.

Type: String

Length Constraints: Maximum length of 2048.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

VersionUpdateByJobsConfig

Service: AWS IoT

Configuration to manage IoT Job's package version reporting. If configured, Jobs updates the thing's reserved named shadow with the package version information up on successful job completion.

Note: For each job, the destinationPackageVersions attribute has to be set with the correct data for Jobs to report to the thing shadow.

Contents

enabled

Indicates whether the Job is enabled or not.

Type: Boolean

Required: No

roleArn

The Amazon Resource Name (ARN) of the role that grants permission to the AWS IoT jobs service to update the reserved named shadow when the job successfully completes.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ViolationEvent

Service: AWS IoT

Information about a Device Defender security profile behavior violation.

Contents

behavior

The behavior that was violated.

Type: [Behavior](#) object

Required: No

metricValue

The value of the metric (the measurement).

Type: [MetricValue](#) object

Required: No

securityProfileName

The name of the security profile whose behavior was violated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9:_-]+

Required: No

thingName

The name of the thing responsible for the violation event.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Required: No

verificationState

The verification state of the violation (detect alarm).

Type: String

Valid Values: FALSE_POSITIVE | BENIGN_POSITIVE | TRUE_POSITIVE | UNKNOWN

Required: No

verificationStateDescription

The description of the verification state of the violation.

Type: String

Length Constraints: Maximum length of 1000.

Pattern: [^\p{Cntrl}]*

Required: No

violationEventAdditionalInfo

The details of a violation event.

Type: [ViolationEventAdditionalInfo](#) object

Required: No

violationEventTime

The time the violation event occurred.

Type: Timestamp

Required: No

violationEventType

The type of violation event.

Type: String

Valid Values: in-alarm | alarm-cleared | alarm-invalidated

Required: No

violationId

The ID of the violation event.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: [a-zA-Z0-9\-]+

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ViolationEventAdditionalInfo

Service: AWS IoT

The details of a violation event.

Contents

confidenceLevel

The sensitivity of anomalous behavior evaluation. Can be Low, Medium, or High.

Type: String

Valid Values: LOW | MEDIUM | HIGH

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

ViolationEventOccurrenceRange

Service: AWS IoT

Specifies the time period of which violation events occurred between.

Contents

endTime

The end date and time of a time period in which violation events occurred.

Type: Timestamp

Required: Yes

startTime

The start date and time of a time period in which violation events occurred.

Type: Timestamp

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

VpcDestinationConfiguration

Service: AWS IoT

The configuration information for a virtual private cloud (VPC) destination.

Contents

roleArn

The ARN of a role that has permission to create and attach to elastic network interfaces (ENIs).

Type: String

Required: Yes

subnetIds

The subnet IDs of the VPC destination.

Type: Array of strings

Required: Yes

vpcId

The ID of the VPC.

Type: String

Required: Yes

securityGroups

The security groups of the VPC destination.

Type: Array of strings

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

VpcDestinationProperties

Service: AWS IoT

The properties of a virtual private cloud (VPC) destination.

Contents

roleArn

The ARN of a role that has permission to create and attach to elastic network interfaces (ENIs).

Type: String

Required: No

securityGroups

The security groups of the VPC destination.

Type: Array of strings

Required: No

subnetIds

The subnet IDs of the VPC destination.

Type: Array of strings

Required: No

vpclId

The ID of the VPC.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

VpcDestinationSummary

Service: AWS IoT

The summary of a virtual private cloud (VPC) destination.

Contents

roleArn

The ARN of a role that has permission to create and attach to elastic network interfaces (ENIs).

Type: String

Required: No

securityGroups

The security groups of the VPC destination.

Type: Array of strings

Required: No

subnetIds

The subnet IDs of the VPC destination.

Type: Array of strings

Required: No

vpId

The ID of the VPC.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AWS IoT data

The following data types are supported by AWS IoT data:

- [RetainedMessageSummary](#)
- [SubscriptionSummary](#)

RetainedMessageSummary

Service: AWS IoT data

Information about a single retained message.

Contents

lastModifiedTime

The Epoch date and time, in milliseconds, when the retained message was stored by AWS IoT.

Type: Long

Required: No

payloadSize

The size of the retained message's payload in bytes.

Type: Long

Required: No

qos

The quality of service (QoS) level used to publish the retained message.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1.

Required: No

topic

The topic name to which the retained message was published.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SubscriptionSummary

Service: AWS IoT data

Contains information about a subscription for an MQTT client, including the topic filter and Quality of Service (QoS) level.

Contents

qos

The Quality of Service (QoS) level for the subscription. Valid values are 0 (at most once) and 1 (at least once).

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 1.

Required: Yes

topicFilter

The topic filter pattern that the client is subscribed to. May include MQTT wildcards such as + (single-level) and # (multi-level).

Type: String

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AWS IoT jobs data

The following data types are supported by AWS IoT jobs data:

- [CommandParameterValue](#)
- [JobExecution](#)
- [JobExecutionState](#)
- [JobExecutionSummary](#)

CommandParameterValue

Service: AWS IoT jobs data

The list of values used to describe a specific command parameter.

Contents

B

An attribute of type Boolean. For example:

```
"BOOL": true
```

Type: Boolean

Required: No

BIN

An attribute of type Binary.

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 1.

Required: No

D

An attribute of type Double (Sixty-Four Bits).

Type: Double

Required: No

I

An attribute of type Integer (Thirty-Two Bits).

Type: Integer

Required: No

L

An attribute of type Long.

Type: Long

Required: No

S

An attribute of type String. For example:

```
"S": "Hello"
```

Type: String

Length Constraints: Minimum length of 1.

Required: No

UL

An attribute of type Unsigned Long.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: `^[0-9]*$`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecution

Service: AWS IoT jobs data

Contains data about a job execution.

Contents

approximateSecondsBeforeTimedOut

The estimated number of seconds that remain before the job execution status will be changed to TIMED_OUT. The actual job execution timeout can occur up to 60 seconds later than the estimated duration.

Type: Long

Required: No

executionNumber

A number that identifies a particular job execution on a particular device. It can be used later in commands that return or update job execution information.

Type: Long

Required: No

jobDocument

The content of the job document.

Type: String

Length Constraints: Maximum length of 32768.

Required: No

jobId

The unique identifier you assigned to this job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

lastUpdatedAt

The time, in seconds since the epoch, when the job execution was last updated.

Type: Long

Required: No

queuedAt

The time, in seconds since the epoch, when the job execution was enqueued.

Type: Long

Required: No

startedAt

The time, in seconds since the epoch, when the job execution was started.

Type: Long

Required: No

status

The status of the job execution. Can be one of: "QUEUED", "IN_PROGRESS", "FAILED", "SUCCESS", "CANCELED", "TIMED_OUT", "REJECTED", or "REMOVED".

Type: String

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT | REJECTED | REMOVED | CANCELED

Required: No

statusDetails

A collection of name/value pairs that describe the status of the job execution.

The maximum length of the value in the name/value pair is 1,024 characters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: `[a-zA-Z0-9:_-]+`

Value Length Constraints: Minimum length of 1.

Value Pattern: `[\p{C}]+`

Required: No

thingName

The name of the thing that is executing the job.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: No

versionNumber

The version of the job execution. Job execution versions are incremented each time they are updated by a device.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionState

Service: AWS IoT jobs data

Contains data about the state of a job execution.

Contents

status

The status of the job execution. Can be one of: "QUEUED", "IN_PROGRESS", "FAILED", "SUCCESS", "CANCELED", "TIMED_OUT", "REJECTED", or "REMOVED".

Type: String

Valid Values: QUEUED | IN_PROGRESS | SUCCEEDED | FAILED | TIMED_OUT | REJECTED | REMOVED | CANCELED

Required: No

statusDetails

A collection of name/value pairs that describe the status of the job execution.

The maximum length of the value in the name/value pair is 1,024 characters.

Type: String to string map

Key Length Constraints: Minimum length of 1. Maximum length of 128.

Key Pattern: [a-zA-Z0-9:_-]+

Value Length Constraints: Minimum length of 1.

Value Pattern: [^\p{C}]+

Required: No

versionNumber

The version of the job execution. Job execution versions are incremented each time they are updated by a device.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

JobExecutionSummary

Service: AWS IoT jobs data

Contains a subset of information about a job execution.

Contents

executionNumber

A number that identifies a particular job execution on a particular device.

Type: Long

Required: No

jobId

The unique identifier you assigned to this job when it was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [a-zA-Z0-9_-]+

Required: No

lastUpdatedAt

The time, in seconds since the epoch, when the job execution was last updated.

Type: Long

Required: No

queuedAt

The time, in seconds since the epoch, when the job execution was enqueued.

Type: Long

Required: No

startedAt

The time, in seconds since the epoch, when the job execution started.

Type: Long

Required: No

versionNumber

The version of the job execution. Job execution versions are incremented each time AWS IoT Jobs receives an update from a device.

Type: Long

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AWS IoT Core Device Advisor

The following data types are supported by AWS IoT Core Device Advisor:

- [DeviceUnderTest](#)
- [GroupResult](#)
- [SuiteDefinitionConfiguration](#)
- [SuiteDefinitionInformation](#)
- [SuiteRunConfiguration](#)
- [SuiteRunInformation](#)
- [TestCaseRun](#)
- [TestCaseScenario](#)
- [TestResult](#)

DeviceUnderTest

Service: AWS IoT Core Device Advisor

Information of a test device. A thing ARN, certificate ARN or device role ARN is required.

Contents

certificateArn

Lists device's certificate ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

deviceRoleArn

Lists device's role ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

thingArn

Lists device's thing ARN.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

GroupResult

Service: AWS IoT Core Device Advisor

Show Group Result.

Contents

groupId

Group result ID.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: No

groupName

Group Result Name.

Type: String

Required: No

tests

Tests under Group Result.

Type: Array of [TestCaseRun](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SuiteDefinitionConfiguration

Service: AWS IoT Core Device Advisor

Gets the suite definition configuration.

Contents

devicePermissionRoleArn

Gets the device permission ARN. This is a required parameter.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Required: Yes

rootGroup

Gets the test suite root group. This is a required parameter. For updating or creating the latest qualification suite, if `intendedForQualification` is set to true, `rootGroup` can be an empty string. If `intendedForQualification` is false, `rootGroup` cannot be an empty string. If `rootGroup` is empty, and `intendedForQualification` is set to true, all the qualification tests are included, and the configuration is default.

For a qualification suite, the minimum length is 0, and the maximum is 2048. For a non-qualification suite, the minimum length is 1, and the maximum is 2048.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Required: Yes

suiteDefinitionName

Gets the suite definition name. This is a required parameter.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: Yes

devices

Gets the devices configured.

Type: Array of [DeviceUnderTest](#) objects

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Required: No

intendedForQualification

Gets the tests intended for qualification in a suite.

Type: Boolean

Required: No

isLongDurationTest

Verifies if the test suite is a long duration test.

Type: Boolean

Required: No

protocol

Sets the MQTT protocol that is configured in the suite definition.

Type: String

Valid Values: `MqttV3_1_1` | `MqttV5` | `MqttV3_1_1_OverWebSocket` | `MqttV5_OverWebSocket`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

SuiteDefinitionInformation

Service: AWS IoT Core Device Advisor

Information about the suite definition.

Contents

createdAt

Date (in Unix epoch time) when the test suite was created.

Type: Timestamp

Required: No

defaultDevices

Specifies the devices that are under test for the test suite.

Type: Array of [DeviceUnderTest](#) objects

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Required: No

intendedForQualification

Specifies if the test suite is intended for qualification.

Type: Boolean

Required: No

isLongDurationTest

Verifies if the test suite is a long duration test.

Type: Boolean

Required: No

protocol

Gets the MQTT protocol that is configured in the suite definition.

Type: String

Valid Values: MqttV3_1_1 | MqttV5 | MqttV3_1_1_OverWebSocket | MqttV5_OverWebSocket

Required: No

suiteDefinitionId

Suite definition ID of the test suite.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: No

suiteDefinitionName

Suite name of the test suite.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SuiteRunConfiguration

Service: AWS IoT Core Device Advisor

Gets suite run configuration.

Contents

primaryDevice

Sets the primary device for the test suite run. This requires a thing ARN or a certificate ARN.

Type: [DeviceUnderTest](#) object

Required: Yes

parallelRun

TRUE if multiple test suites run in parallel.

Type: Boolean

Required: No

selectedTestList

Sets test case list.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

SuiteRunInformation

Service: AWS IoT Core Device Advisor

Information about the suite run.

Requires permission to access the [SuiteRunInformation](#) action.

Contents

createdAt

Date (in Unix epoch time) when the suite run was created.

Type: Timestamp

Required: No

endAt

Date (in Unix epoch time) when the suite run ended.

Type: Timestamp

Required: No

failed

Number of test cases that failed in the suite run.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 500.

Required: No

passed

Number of test cases that passed in the suite run.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 500.

Required: No

startedAt

Date (in Unix epoch time) when the suite run was started.

Type: Timestamp

Required: No

status

Status of the suite run.

Type: String

Valid Values: PASS | FAIL | CANCELED | PENDING | RUNNING | STOPPING | STOPPED | PASS_WITH_WARNINGS | ERROR

Required: No

suiteDefinitionId

Suite definition ID of the suite run.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: No

suiteDefinitionName

Suite definition name of the suite run.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Required: No

suiteDefinitionVersion

Suite definition version of the suite run.

Type: String

Length Constraints: Minimum length of 2. Maximum length of 255.

Required: No

suiteRunId

Suite run ID of the suite run.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TestCaseRun

Service: AWS IoT Core Device Advisor

Provides the test case run.

Contents

endTime

Provides test case run end time.

Type: Timestamp

Required: No

failure

Provides test case run failure result.

Type: String

Required: No

logUrl

Provides test case run log URL.

Type: String

Required: No

startTime

Provides test case run start time.

Type: Timestamp

Required: No

status

Provides the test case run status. Status is one of the following:

- PASS: Test passed.
- FAIL: Test failed.

- PENDING: Test has not started running but is scheduled.
- RUNNING: Test is running.
- STOPPING: Test is performing cleanup steps. You will see this status only if you stop a suite run.
- STOPPED Test is stopped. You will see this status only if you stop a suite run.
- PASS_WITH_WARNINGS: Test passed with warnings.
- ERROR: Test faced an error when running due to an internal issue.

Type: String

Valid Values: PASS | FAIL | CANCELED | PENDING | RUNNING | STOPPING | STOPPED | PASS_WITH_WARNINGS | ERROR

Required: No

testCaseDefinitionId

Provides the test case run definition ID.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: No

testCaseDefinitionName

Provides the test case run definition name.

Type: String

Required: No

testCaseRunId

Provides the test case run ID.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 36.

Required: No

testScenarios

Provides the test scenarios for the test case run.

Type: Array of [TestCaseScenario](#) objects

Required: No

warnings

Provides test case run warnings.

Type: String

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TestCaseScenario

Service: AWS IoT Core Device Advisor

Provides test case scenario.

Contents

failure

Provides test case scenario failure result.

Type: String

Required: No

status

Provides the test case scenario status. Status is one of the following:

- PASS: Test passed.
- FAIL: Test failed.
- PENDING: Test has not started running but is scheduled.
- RUNNING: Test is running.
- STOPPING: Test is performing cleanup steps. You will see this status only if you stop a suite run.
- STOPPED Test is stopped. You will see this status only if you stop a suite run.
- PASS_WITH_WARNINGS: Test passed with warnings.
- ERROR: Test faced an error when running due to an internal issue.

Type: String

Valid Values: PASS | FAIL | CANCELED | PENDING | RUNNING | STOPPING | STOPPED | PASS_WITH_WARNINGS | ERROR

Required: No

systemMessage

Provides test case scenario system messages if any.

Type: String

Required: No

testCaseScenarioId

Provides test case scenario ID.

Type: String

Required: No

testCaseScenarioType

Provides test case scenario type. Type is one of the following:

- Advanced
- Basic

Type: String

Valid Values: Advanced | Basic

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TestResult

Service: AWS IoT Core Device Advisor

Show each group result.

Contents

groups

Show each group of test results.

Type: Array of [GroupResult](#) objects

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

AWS IoT Secure Tunneling

The following data types are supported by AWS IoT Secure Tunneling:

- [ConnectionState](#)
- [DestinationConfig](#)
- [Tag](#)
- [TimeoutConfig](#)
- [Tunnel](#)
- [TunnelSummary](#)

ConnectionState

Service: AWS IoT Secure Tunneling

The state of a connection.

Contents

lastUpdatedAt

The last time the connection status was updated.

Type: Timestamp

Required: No

status

The connection status of the tunnel. Valid values are CONNECTED and DISCONNECTED.

Type: String

Valid Values: CONNECTED | DISCONNECTED

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

DestinationConfig

Service: AWS IoT Secure Tunneling

The destination configuration. You can not use DestinationConfig with source `clientMode`.

Contents

services

A list of service names that identify the target application. The AWS IoT client running on the destination device reads this value and uses it to look up a port or an IP address and a port. The AWS IoT client instantiates the local proxy, which uses this information to connect to the destination application.

Type: Array of strings

Array Members: Minimum number of 1 item.

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: Yes

thingName

The name of the IoT thing to which you want to connect.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[a-zA-Z0-9:_-]+`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Tag

Service: AWS IoT Secure Tunneling

An arbitrary key/value pair used to add searchable metadata to secure tunnel resources.

Contents

key

The key of the tag.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^([\p{L}\p{Z}\p{N}_.: /+=\ -@]*)$`

Required: Yes

value

The value of the tag.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `^([\p{L}\p{Z}\p{N}_.: /+=\ -@]*)$`

Required: Yes

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TimeoutConfig

Service: AWS IoT Secure Tunneling

Tunnel timeout configuration.

Contents

maxLifetimeTimeoutMinutes

The maximum amount of time (in minutes) a tunnel can remain open. If not specified, maxLifetimeTimeoutMinutes defaults to 720 minutes. Valid values are from 1 minute to 12 hours (720 minutes)

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 720.

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Tunnel

Service: AWS IoT Secure Tunneling

A connection between a source computer and a destination device.

Contents

createdAt

The time when the tunnel was created.

Type: Timestamp

Required: No

description

A description of the tunnel.

Type: String

Pattern: `[^\p{C}]{1,2048}`

Required: No

destinationConfig

The destination configuration that specifies the thing name of the destination device and a service name that the local proxy uses to connect to the destination application.

Type: [DestinationConfig](#) object

Required: No

destinationConnectionState

The connection state of the destination application.

Type: [ConnectionState](#) object

Required: No

lastUpdatedAt

The last time the tunnel was updated.

Type: Timestamp

Required: No

sourceConnectionState

The connection state of the source application.

Type: [ConnectionState](#) object

Required: No

status

The status of a tunnel. Valid values are: Open and Closed.

Type: String

Valid Values: OPEN | CLOSED

Required: No

tags

A list of tag metadata associated with the secure tunnel.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 1 item. Maximum number of 200 items.

Required: No

timeoutConfig

Timeout configuration for the tunnel.

Type: [TimeoutConfig](#) object

Required: No

tunnelArn

The Amazon Resource Name (ARN) of a tunnel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

tunnelId

A unique alpha-numeric ID that identifies a tunnel.

Type: String

Pattern: `[a-zA-Z0-9_\-+=:]{1,128}`

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

TunnelSummary

Service: AWS IoT Secure Tunneling

Information about the tunnel.

Contents

createdAt

The time the tunnel was created.

Type: Timestamp

Required: No

description

A description of the tunnel.

Type: String

Pattern: `[^\p{C}]{1,2048}`

Required: No

lastUpdatedAt

The time the tunnel was last updated.

Type: Timestamp

Required: No

status

The status of a tunnel. Valid values are: Open and Closed.

Type: String

Valid Values: OPEN | CLOSED

Required: No

tunnelArn

The Amazon Resource Name of the tunnel.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Required: No

tunnelId

The unique alpha-numeric identifier for the tunnel.

Type: String

Pattern: [a-zA-Z0-9_\-+=:]{1,128}

Required: No

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: *access_key/YYYYMMDD/region/service/aws4_request*.

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional