



API Reference

# Amazon DevOps Guru



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# Amazon DevOps Guru: API Reference

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# Welcome

Amazon DevOps Guru is a fully managed service that helps you identify anomalous behavior in business critical operational applications. You specify the AWS resources that you want DevOps Guru to cover, then the Amazon CloudWatch metrics and AWS CloudTrail events related to those resources are analyzed. When anomalous behavior is detected, DevOps Guru creates an *insight* that includes recommendations, related events, and related metrics that can help you improve your operational applications. For more information, see [What is Amazon DevOps Guru](#).

You can specify 1 or 2 Amazon Simple Notification Service topics so you are notified every time a new insight is created. You can also enable DevOps Guru to generate an OpsItem in AWS Systems Manager for each insight to help you manage and track your work addressing insights.

To learn about the DevOps Guru workflow, see [How DevOps Guru works](#). To learn about DevOps Guru concepts, see [Concepts in DevOps Guru](#).

This document was last published on September 18, 2026.

# Actions

The following actions are supported:

- [AddNotificationChannel](#)
- [DeleteInsight](#)
- [DescribeAccountHealth](#)
- [DescribeAccountOverview](#)
- [DescribeAnomaly](#)
- [DescribeEventSourcesConfig](#)
- [DescribeFeedback](#)
- [DescribeInsight](#)
- [DescribeOrganizationHealth](#)
- [DescribeOrganizationOverview](#)
- [DescribeOrganizationResourceCollectionHealth](#)
- [DescribeResourceCollectionHealth](#)
- [DescribeServiceIntegration](#)
- [GetCostEstimation](#)
- [GetResourceCollection](#)
- [ListAnomaliesForInsight](#)
- [ListAnomalousLogGroups](#)
- [ListEvents](#)
- [ListInsights](#)
- [ListMonitoredResources](#)
- [ListNotificationChannels](#)
- [ListOrganizationInsights](#)
- [ListRecommendations](#)
- [PutFeedback](#)
- [RemoveNotificationChannel](#)
- [SearchInsights](#)
- [SearchOrganizationInsights](#)

- [StartCostEstimation](#)
- [UpdateEventSourcesConfig](#)
- [UpdateResourceCollection](#)
- [UpdateServiceIntegration](#)

# AddNotificationChannel

Adds a notification channel to DevOps Guru. A notification channel is used to notify you about important DevOps Guru events, such as when an insight is generated.

If you use an Amazon SNS topic in another account, you must attach a policy to it that grants DevOps Guru permission to send it notifications. DevOps Guru adds the required policy on your behalf to send notifications using Amazon SNS in your account. DevOps Guru only supports standard SNS topics. For more information, see [Permissions for Amazon SNS topics](#).

If you use an Amazon SNS topic that is encrypted by an AWS Key Management Service customer-managed key (CMK), then you must add permissions to the CMK. For more information, see [Permissions for AWS KMS–encrypted Amazon SNS topics](#).

## Request Syntax

```
PUT /channels HTTP/1.1
Content-type: application/json

{
  "Config": {
    "Filters": {
      "MessageTypes": [ "string" ],
      "Severities": [ "string" ]
    },
    "Sns": {
      "TopicArn": "string"
    }
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

## Config

A `NotificationChannelConfig` object that specifies what type of notification channel to add. The one supported notification channel is Amazon Simple Notification Service (Amazon SNS).

Type: [NotificationChannelConfig](#) object

Required: Yes

## Response Syntax

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

{
  "Id": "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.

### [Id](#)

The ID of the added notification channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

## ConflictException

An exception that is thrown when a conflict occurs.

### ResourceId

The ID of the AWS resource in which a conflict occurred.

### ResourceType

The type of the AWS resource in which a conflict occurred.

HTTP Status Code: 409

## InternalServerErrorException

An internal failure in an Amazon service occurred.

### RetryAfterSeconds

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

## ResourceNotFoundException

A requested resource could not be found

### ResourceId

The ID of the AWS resource that could not be found.

### ResourceType

The type of the AWS resource that could not be found.

HTTP Status Code: 404

## **ServiceQuotaExceededException**

The request contains a value that exceeds a maximum quota.

HTTP Status Code: 402

## **ThrottlingException**

The request was denied due to a request throttling.

### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

### **RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

### **ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## **ValidationException**

Contains information about data passed in to a field during a request that is not valid.

### **Fields**

An array of fields that are associated with the validation exception.

### **Message**

A message that describes the validation exception.

### **Reason**

The reason the validation exception was thrown.

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](#)

# DeleteInsight

Deletes the insight along with the associated anomalies, events and recommendations.

## Request Syntax

```
DELETE /insights/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The ID of the insight.

Length Constraints: Minimum length of 1. Maximum length of 100.

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

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

## ConflictException

An exception that is thrown when a conflict occurs.

### ResourceId

The ID of the AWS resource in which a conflict occurred.

### ResourceType

The type of the AWS resource in which a conflict occurred.

HTTP Status Code: 409

## InternalServerErrorException

An internal failure in an Amazon service occurred.

### RetryAfterSeconds

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

## ResourceNotFoundException

A requested resource could not be found

### ResourceId

The ID of the AWS resource that could not be found.

### ResourceType

The type of the AWS resource that could not be found.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to a request throttling.

### QuotaCode

The code of the quota that was exceeded, causing the throttling exception.

### RetryAfterSeconds

The number of seconds after which the action that caused the throttling exception can be retried.

### ServiceCode

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## ValidationException

Contains information about data passed in to a field during a request that is not valid.

### Fields

An array of fields that are associated with the validation exception.

### Message

A message that describes the validation exception.

### Reason

The reason the validation exception was thrown.

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](#)

# DescribeAccountHealth

Returns the number of open reactive insights, the number of open proactive insights, and the number of metrics analyzed in your AWS account. Use these numbers to gauge the health of operations in your AWS account.

## Request Syntax

```
GET /accounts/health 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

{
  "AnalyzedResourceCount": number,
  "MetricsAnalyzed": number,
  "OpenProactiveInsights": number,
  "OpenReactiveInsights": number,
  "ResourceHours": 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.

### [AnalyzedResourceCount](#)

Number of resources that DevOps Guru is monitoring in your AWS account.

Type: Long

### **MetricsAnalyzed**

An integer that specifies the number of metrics that have been analyzed in your AWS account.

Type: Integer

### **OpenProactiveInsights**

An integer that specifies the number of open proactive insights in your AWS account.

Type: Integer

### **OpenReactiveInsights**

An integer that specifies the number of open reactive insights in your AWS account.

Type: Integer

### **ResourceHours**

The number of Amazon DevOps Guru resource analysis hours billed to the current AWS account in the last hour.

Type: Long

## **Errors**

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **InternalServerException**

An internal failure in an Amazon service occurred.

### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to a request throttling.

#### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

#### **ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

### **ValidationException**

Contains information about data passed in to a field during a request that is not valid.

#### **Fields**

An array of fields that are associated with the validation exception.

#### **Message**

A message that describes the validation exception.

#### **Reason**

The reason the validation exception was thrown.

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](#)

# DescribeAccountOverview

For the time range passed in, returns the number of open reactive insight that were created, the number of open proactive insights that were created, and the Mean Time to Recover (MTTR) for all closed reactive insights.

## Request Syntax

```
POST /accounts/overview HTTP/1.1
Content-type: application/json
```

```
{
  "FromTime": number,
  "ToTime": number
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### FromTime

The start of the time range passed in. The start time granularity is at the day level. The floor of the start time is used. Returned information occurred after this day.

Type: Timestamp

Required: Yes

### ToTime

The end of the time range passed in. The start time granularity is at the day level. The floor of the start time is used. Returned information occurred before this day. If this is not specified, then the current day is used.

Type: Timestamp

Required: No

## Response Syntax

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

{
  "MeanTimeToRecoverInMilliseconds": number,
  "ProactiveInsights": number,
  "ReactiveInsights": 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.

### MeanTimeToRecoverInMilliseconds

The Mean Time to Recover (MTTR) for all closed insights that were created during the time range passed in.

Type: Long

### ProactiveInsights

An integer that specifies the number of open proactive insights in your AWS account that were created during the time range passed in.

Type: Integer

### ReactiveInsights

An integer that specifies the number of open reactive insights in your AWS account that were created during the time range passed in.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

## InternalServerError

An internal failure in an Amazon service occurred.

### RetryAfterSeconds

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

## ThrottlingException

The request was denied due to a request throttling.

### QuotaCode

The code of the quota that was exceeded, causing the throttling exception.

### RetryAfterSeconds

The number of seconds after which the action that caused the throttling exception can be retried.

### ServiceCode

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## ValidationException

Contains information about data passed in to a field during a request that is not valid.

### Fields

An array of fields that are associated with the validation exception.

### Message

A message that describes the validation exception.

## Reason

The reason the validation exception was thrown.

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](#)

# DescribeAnomaly

Returns details about an anomaly that you specify using its ID.

## Request Syntax

```
GET /anomalies/Id?AccountId=AccountId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### AccountId

The ID of the member account.

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

### Id

The ID of the anomaly.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\w~.-]*$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "ProactiveAnomaly": {
    "AnomalyReportedTimeRange": {
      "CloseTime": number,
```

```
    "OpenTime": number
  },
  "AnomalyResources": [
    {
      "Name": "string",
      "Type": "string"
    }
  ],
  "AnomalyTimeRange": {
    "EndTime": number,
    "StartTime": number
  },
  "AssociatedInsightId": "string",
  "Description": "string",
  "Id": "string",
  "Limit": number,
  "PredictionTimeRange": {
    "EndTime": number,
    "StartTime": number
  },
  "ResourceCollection": {
    "CloudFormation": {
      "StackNames": [ "string" ]
    },
    "Tags": [
      {
        "AppBoundaryKey": "string",
        "TagValues": [ "string" ]
      }
    ]
  },
  "Severity": "string",
  "SourceDetails": {
    "CloudWatchMetrics": [
      {
        "Dimensions": [
          {
            "Name": "string",
            "Value": "string"
          }
        ]
      }
    ],
    "MetricDataSummary": {
      "StatusCode": "string",
      "TimestampMetricValuePairList": [
```

```

        {
            "MetricValue": number,
            "Timestamp": number
        }
    ]
},
"MetricName": "string",
"Namespace": "string",
"Period": number,
"Stat": "string",
"Unit": "string"
}
],
"PerformanceInsightsMetrics": [
    {
        "MetricDisplayName": "string",
        "MetricQuery": {
            "Filter": {
                "string" : "string"
            },
            "GroupBy": {
                "Dimensions": [ "string" ],
                "Group": "string",
                "Limit": number
            },
            "Metric": "string"
        },
        "ReferenceData": [
            {
                "ComparisonValues": {
                    "ReferenceMetric": {
                        "MetricQuery": {
                            "Filter": {
                                "string" : "string"
                            },
                            "GroupBy": {
                                "Dimensions": [ "string" ],
                                "Group": "string",
                                "Limit": number
                            },
                            "Metric": "string"
                        }
                    }
                },
                "ReferenceScalar": {

```

```

        "Value": number
      }
    },
    "Name": "string"
  }
],
"StatsAtAnomaly": [
  {
    "Type": "string",
    "Value": number
  }
],
"StatsAtBaseline": [
  {
    "Type": "string",
    "Value": number
  }
],
"Unit": "string"
}
]
},
"SourceMetadata": {
  "Source": "string",
  "SourceResourceName": "string",
  "SourceResourceType": "string"
},
"Status": "string",
"UpdateTime": number
},
"ReactiveAnomaly": {
  "AnomalyReportedTimeRange": {
    "CloseTime": number,
    "OpenTime": number
  },
  "AnomalyResources": [
    {
      "Name": "string",
      "Type": "string"
    }
  ],
  "AnomalyTimeRange": {
    "EndTime": number,
    "StartTime": number
  }
}

```

```

    },
    "AssociatedInsightId": "string",
    "CausalAnomalyId": "string",
    "Description": "string",
    "Id": "string",
    "Name": "string",
    "ResourceCollection": {
        "CloudFormation": {
            "StackNames": [ "string" ]
        },
        "Tags": [
            {
                "AppBoundaryKey": "string",
                "TagValues": [ "string" ]
            }
        ]
    },
    "Severity": "string",
    "SourceDetails": {
        "CloudWatchMetrics": [
            {
                "Dimensions": [
                    {
                        "Name": "string",
                        "Value": "string"
                    }
                ],
                "MetricDataSummary": {
                    "StatusCode": "string",
                    "TimestampMetricValuePairList": [
                        {
                            "MetricValue": number,
                            "Timestamp": number
                        }
                    ]
                },
                "MetricName": "string",
                "Namespace": "string",
                "Period": number,
                "Stat": "string",
                "Unit": "string"
            }
        ],
        "PerformanceInsightsMetrics": [

```

```

{
  "MetricDisplayName": "string",
  "MetricQuery": {
    "Filter": {
      "string" : "string"
    },
    "GroupBy": {
      "Dimensions": [ "string" ],
      "Group": "string",
      "Limit": number
    },
    "Metric": "string"
  },
  "ReferenceData": [
    {
      "ComparisonValues": {
        "ReferenceMetric": {
          "MetricQuery": {
            "Filter": {
              "string" : "string"
            },
            "GroupBy": {
              "Dimensions": [ "string" ],
              "Group": "string",
              "Limit": number
            },
            "Metric": "string"
          }
        }
      },
      "ReferenceScalar": {
        "Value": number
      }
    },
    "Name": "string"
  ],
  "StatsAtAnomaly": [
    {
      "Type": "string",
      "Value": number
    }
  ],
  "StatsAtBaseline": [
    {

```

```
        "Type": "string",
        "Value": number
      }
    ],
    "Unit": "string"
  }
],
{
  "Status": "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.

### [ProactiveAnomaly](#)

A ProactiveAnomaly object that represents the requested anomaly.

Type: [ProactiveAnomaly](#) object

### [ReactiveAnomaly](#)

A ReactiveAnomaly object that represents the requested anomaly.

Type: [ReactiveAnomaly](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

## **InternalServerErrorException**

An internal failure in an Amazon service occurred.

### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

## **ResourceNotFoundException**

A requested resource could not be found

### **ResourceId**

The ID of the AWS resource that could not be found.

### **ResourceType**

The type of the AWS resource that could not be found.

HTTP Status Code: 404

## **ThrottlingException**

The request was denied due to a request throttling.

### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

### **RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

### **ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## **ValidationException**

Contains information about data passed in to a field during a request that is not valid.

**Fields**

An array of fields that are associated with the validation exception.

**Message**

A message that describes the validation exception.

**Reason**

The reason the validation exception was thrown.

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](#)

# DescribeEventSourcesConfig

Returns the integration status of services that are integrated with DevOps Guru as Consumer via EventBridge. The one service that can be integrated with DevOps Guru is Amazon CodeGuru Profiler, which can produce proactive recommendations which can be stored and viewed in DevOps Guru.

## Request Syntax

```
POST /event-sources 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

{
  "EventSources": {
    "AmazonCodeGuruProfiler": {
      "Status": "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.

### EventSources

Lists the event sources in the configuration.

Type: [EventSourcesConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **InternalServerError**

An internal failure in an Amazon service occurred.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to a request throttling.

#### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

#### **ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

### **ValidationException**

Contains information about data passed in to a field during a request that is not valid.

**Fields**

An array of fields that are associated with the validation exception.

**Message**

A message that describes the validation exception.

**Reason**

The reason the validation exception was thrown.

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](#)

# DescribeFeedback

Returns the most recent feedback submitted in the current AWS account and Region.

## Request Syntax

```
POST /feedback HTTP/1.1
Content-type: application/json

{
  "InsightId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [InsightId](#)

The ID of the insight for which the feedback was provided.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: No

## Response Syntax

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

{
  "InsightFeedback": {
```

```
    "Feedback": "string",  
    "Id": "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.

### InsightFeedback

Information about insight feedback received from a customer.

Type: [InsightFeedback](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **InternalServerError**

An internal failure in an Amazon service occurred.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ResourceNotFoundException**

A requested resource could not be found

**ResourceId**

The ID of the AWS resource that could not be found.

**ResourceType**

The type of the AWS resource that could not be found.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to a request throttling.

**QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

**RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

**ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

**ValidationException**

Contains information about data passed in to a field during a request that is not valid.

**Fields**

An array of fields that are associated with the validation exception.

**Message**

A message that describes the validation exception.

**Reason**

The reason the validation exception was thrown.

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](#)

# DescribeInsight

Returns details about an insight that you specify using its ID.

## Request Syntax

```
GET /insights/Id?AccountId=AccountId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### AccountId

The ID of the member account in the organization.

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

### Id

The ID of the insight.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\w-]*$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "ProactiveInsight": {
    "Description": "string",
    "Id": "string",
```

```
    "InsightTimeRange": {
      "EndTime": number,
      "StartTime": number
    },
    "Name": "string",
    "PredictionTimeRange": {
      "EndTime": number,
      "StartTime": number
    },
    "ResourceCollection": {
      "CloudFormation": {
        "StackNames": [ "string" ]
      },
      "Tags": [
        {
          "AppBoundaryKey": "string",
          "TagValues": [ "string" ]
        }
      ]
    },
    "Severity": "string",
    "SsmOpsItemId": "string",
    "Status": "string"
  },
  "ReactiveInsight": {
    "Description": "string",
    "Id": "string",
    "InsightTimeRange": {
      "EndTime": number,
      "StartTime": number
    },
    "Name": "string",
    "ResourceCollection": {
      "CloudFormation": {
        "StackNames": [ "string" ]
      },
      "Tags": [
        {
          "AppBoundaryKey": "string",
          "TagValues": [ "string" ]
        }
      ]
    },
    "Severity": "string",
```

```
    "SsmOpsItemId": "string",  
    "Status": "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.

### ProactiveInsight

A ProactiveInsight object that represents the requested insight.

Type: [ProactiveInsight](#) object

### ReactiveInsight

A ReactiveInsight object that represents the requested insight.

Type: [ReactiveInsight](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **InternalServerError**

An internal failure in an Amazon service occurred.

### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ResourceNotFoundException**

A requested resource could not be found

#### **ResourceId**

The ID of the AWS resource that could not be found.

#### **ResourceType**

The type of the AWS resource that could not be found.

HTTP Status Code: 404

### **ThrottlingException**

The request was denied due to a request throttling.

#### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

#### **ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

### **ValidationException**

Contains information about data passed in to a field during a request that is not valid.

#### **Fields**

An array of fields that are associated with the validation exception.

#### **Message**

A message that describes the validation exception.

#### **Reason**

The reason the validation exception was thrown.

## 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](#)

# DescribeOrganizationHealth

Returns the number of metrics, insights, and resource hours DevOps Guru analyzed in the last hour.

There are two types of insights:

- *Reactive*: A reactive insight identifies anomalous behavior as it occurs. It contains anomalies with recommendations, related metrics, and events to help you understand and address the issues now.
- *Proactive*: A proactive insight lets you know about anomalous behavior before it occurs. It contains anomalies with recommendations to help you address the issues before they are predicted to happen.

## Request Syntax

```
POST /organization/health HTTP/1.1
Content-type: application/json

{
  "AccountIds": [ "string" ],
  "OrganizationalUnitIds": [ "string" ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AccountIds

The ID of the AWS account.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### OrganizationalUnitIds

The ID of the organizational unit.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Maximum length of 68.

Pattern: `^ou-[0-9a-z]{4,32}-[a-z0-9]{8,32}$`

Required: No

## Response Syntax

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

{
  "MetricsAnalyzed": number,
  "OpenProactiveInsights": number,
  "OpenReactiveInsights": number,
  "ResourceHours": 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.

### MetricsAnalyzed

An integer that specifies the number of metrics that have been analyzed in your organization.

Type: Integer

### OpenProactiveInsights

An integer that specifies the number of open proactive insights in your AWS account.

Type: Integer

### OpenReactiveInsights

An integer that specifies the number of open reactive insights in your AWS account.

Type: Integer

### ResourceHours

The number of Amazon DevOps Guru resource analysis hours billed to the current AWS account in the last hour.

Type: Long

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **InternalServerException**

An internal failure in an Amazon service occurred.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to a request throttling.

**QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

**RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

**ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

**ValidationException**

Contains information about data passed in to a field during a request that is not valid.

**Fields**

An array of fields that are associated with the validation exception.

**Message**

A message that describes the validation exception.

**Reason**

The reason the validation exception was thrown.

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](#)

# DescribeOrganizationOverview

Returns an overview of your organization's history based on the specified time range. The overview includes the total reactive and proactive insights.

## Request Syntax

```
POST /organization/overview HTTP/1.1
Content-type: application/json

{
  "AccountIds": [ "string" ],
  "FromTime": number,
  "OrganizationalUnitIds": [ "string" ],
  "ToTime": number
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AccountIds

The ID of the AWS account.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### FromTime

The start of the time range passed in. The start time granularity is at the day level. The floor of the start time is used. Returned information occurred after this day.

Type: Timestamp

Required: Yes

### OrganizationalUnitIds

The ID of the organizational unit.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Maximum length of 68.

Pattern: `^ou-[0-9a-z]{4,32}-[a-z0-9]{8,32}$`

Required: No

### ToTime

The end of the time range passed in. The start time granularity is at the day level. The floor of the start time is used. Returned information occurred before this day. If this is not specified, then the current day is used.

Type: Timestamp

Required: No

## Response Syntax

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

{
  "ProactiveInsights": number,
  "ReactiveInsights": 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.

### ProactiveInsights

An integer that specifies the number of open proactive insights in your AWS account.

Type: Integer

### ReactiveInsights

An integer that specifies the number of open reactive insights in your AWS account.

Type: Integer

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **InternalServerError**

An internal failure in an Amazon service occurred.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to a request throttling.

#### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

**RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

**ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

**ValidationException**

Contains information about data passed in to a field during a request that is not valid.

**Fields**

An array of fields that are associated with the validation exception.

**Message**

A message that describes the validation exception.

**Reason**

The reason the validation exception was thrown.

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](#)

# DescribeOrganizationResourceCollectionHealth

Provides an overview of your system's health. If additional member accounts are part of your organization, you can filter those accounts using the `AccountIds` field.

## Request Syntax

```
POST /organization/health/resource-collection HTTP/1.1
Content-type: application/json
```

```
{
  "AccountIds": [ "string" ],
  "MaxResults": number,
  "NextToken": "string",
  "OrganizationalUnitIds": [ "string" ],
  "OrganizationResourceCollectionType": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AccountIds

The ID of the AWS account.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

## MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 500.

Required: No

## NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

## OrganizationalUnitIds

The ID of the organizational unit.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Length Constraints: Maximum length of 68.

Pattern: `^ou-[0-9a-z]{4,32}-[a-z0-9]{8,32}$`

Required: No

## OrganizationResourceCollectionType

An AWS resource collection type. This type specifies how analyzed AWS resources are defined. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: String

Valid Values: AWS\_CLOUD\_FORMATION | AWS\_SERVICE | AWS\_ACCOUNT | AWS\_TAGS

Required: Yes

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "Account": [
    {
      "AccountId": "string",
      "Insight": {
        "OpenProactiveInsights": number,
        "OpenReactiveInsights": number
      }
    }
  ],
  "CloudFormation": [
    {
      "AnalyzedResourceCount": number,
      "Insight": {
        "MeanTimeToRecoverInMilliseconds": number,
        "OpenProactiveInsights": number,
        "OpenReactiveInsights": number
      },
      "StackName": "string"
    }
  ],
  "NextToken": "string",
  "Service": [
    {
      "AnalyzedResourceCount": number,
      "Insight": {
        "OpenProactiveInsights": number,
        "OpenReactiveInsights": number
      },
      "ServiceName": "string"
    }
  ],
}
```

```
"Tags": [  
  {  
    "AnalyzedResourceCount": number,  
    "AppBoundaryKey": "string",  
    "Insight": {  
      "MeanTimeToRecoverInMilliseconds": number,  
      "OpenProactiveInsights": number,  
      "OpenReactiveInsights": number  
    },  
    "TagValue": "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.

### Account

The name of the organization's account.

Type: Array of [AccountHealth](#) objects

### CloudFormation

The returned CloudFormationHealthOverview object that contains an InsightHealthOverview object with the requested system health information.

Type: Array of [CloudFormationHealth](#) objects

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

## Service

An array of `ServiceHealth` objects that describes the health of the AWS services associated with the resources in the collection.

Type: Array of [ServiceHealth](#) objects

## Tags

Tags help you identify and organize your AWS resources. Many AWS services support tagging, so you can assign the same tag to resources from different services to indicate that the resources are related. For example, you can assign the same tag to an Amazon DynamoDB table resource that you assign to an AWS Lambda function. For more information about using tags, see the [Tagging best practices](#) whitepaper.

Each AWS tag has two parts.

- A tag *key* (for example, `CostCenter`, `Environment`, `Project`, or `Secret`). Tag *keys* are case-sensitive.
- An optional field known as a tag *value* (for example, `111122223333`, `Production`, or a team name). Omitting the tag *value* is the same as using an empty string. Like tag *keys*, tag *values* are case-sensitive.

Together these are known as *key-value* pairs.

### Important

When you create a *key*, the case of characters in the *key* can be whatever you choose. After you create a *key*, it is case-sensitive. For example, DevOps Guru works with a *key* named `devops-guru-rds` and a *key* named `DevOps-Guru-RDS`, and these act as two different *keys*. Possible *key/value* pairs in your application might be `Devops-Guru-production-application/RDS` or `Devops-Guru-production-application/containers`.

Type: Array of [TagHealth](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

## InternalServerError

An internal failure in an Amazon service occurred.

### RetryAfterSeconds

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

## ThrottlingException

The request was denied due to a request throttling.

### QuotaCode

The code of the quota that was exceeded, causing the throttling exception.

### RetryAfterSeconds

The number of seconds after which the action that caused the throttling exception can be retried.

### ServiceCode

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## ValidationException

Contains information about data passed in to a field during a request that is not valid.

### Fields

An array of fields that are associated with the validation exception.

### Message

A message that describes the validation exception.

## Reason

The reason the validation exception was thrown.

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](#)

# DescribeResourceCollectionHealth

Returns the number of open proactive insights, open reactive insights, and the Mean Time to Recover (MTTR) for all closed insights in resource collections in your account. You specify the type of AWS resources collection. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

## Request Syntax

```
GET /accounts/health/resource-collection/ResourceCollectionType?NextToken=NextToken
HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

### ResourceCollectionType

An AWS resource collection type. This type specifies how analyzed AWS resources are defined. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Valid Values: `AWS_CLOUD_FORMATION` | `AWS_SERVICE` | `AWS_TAGS`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "CloudFormation": [
    {
      "AnalyzedResourceCount": number,
      "Insight": {
        "MeanTimeToRecoverInMilliseconds": number,
        "OpenProactiveInsights": number,
        "OpenReactiveInsights": number
      },
      "StackName": "string"
    }
  ],
  "NextToken": "string",
  "Service": [
    {
      "AnalyzedResourceCount": number,
      "Insight": {
        "OpenProactiveInsights": number,
        "OpenReactiveInsights": number
      },
      "ServiceName": "string"
    }
  ],
  "Tags": [
    {
      "AnalyzedResourceCount": number,
      "AppBoundaryKey": "string",
      "Insight": {
        "MeanTimeToRecoverInMilliseconds": number,
        "OpenProactiveInsights": number,
        "OpenReactiveInsights": number
      },
      "TagValue": "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.

### CloudFormation

The returned `CloudFormationHealthOverview` object that contains an `InsightHealthOverview` object with the requested system health information.

Type: Array of [CloudFormationHealth](#) objects

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

### Service

An array of `ServiceHealth` objects that describes the health of the AWS services associated with the resources in the collection.

Type: Array of [ServiceHealth](#) objects

### Tags

The AWS tags that are used by resources in the resource collection.

Tags help you identify and organize your AWS resources. Many AWS services support tagging, so you can assign the same tag to resources from different services to indicate that the resources are related. For example, you can assign the same tag to an Amazon DynamoDB table resource that you assign to an AWS Lambda function. For more information about using tags, see the [Tagging best practices](#) whitepaper.

Each AWS tag has two parts.

- A tag *key* (for example, CostCenter, Environment, Project, or Secret). Tag *keys* are case-sensitive.
- An optional field known as a tag *value* (for example, 111122223333, Production, or a team name). Omitting the tag *value* is the same as using an empty string. Like tag *keys*, tag *values* are case-sensitive.

Together these are known as *key-value* pairs.

### Important

When you create a *key*, the case of characters in the *key* can be whatever you choose. After you create a *key*, it is case-sensitive. For example, DevOps Guru works with a *key* named devops-guru-rds and a *key* named DevOps-Guru-RDS, and these act as two different *keys*. Possible *key/value* pairs in your application might be Devops-Guru-production-application/RDS or Devops-Guru-production-application/containers.

Type: Array of [TagHealth](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### InternalServerError

An internal failure in an Amazon service occurred.

### RetryAfterSeconds

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to a request throttling.

#### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

#### **ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

### **ValidationException**

Contains information about data passed in to a field during a request that is not valid.

#### **Fields**

An array of fields that are associated with the validation exception.

#### **Message**

A message that describes the validation exception.

#### **Reason**

The reason the validation exception was thrown.

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](#)

# DescribeServiceIntegration

Returns the integration status of services that are integrated with DevOps Guru.

## Request Syntax

```
GET /service-integrations 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

{
  "ServiceIntegration": {
    "KMSServerSideEncryption": {
      "KMSKeyId": "string",
      "OptInStatus": "string",
      "Type": "string"
    },
    "LogsAnomalyDetection": {
      "OptInStatus": "string"
    },
    "OpsCenter": {
      "OptInStatus": "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.

## ServiceIntegration

Information about the integration of DevOps Guru with another AWS service, such as AWS Systems Manager.

Type: [ServiceIntegrationConfig](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### InternalServerError

An internal failure in an Amazon service occurred.

#### RetryAfterSeconds

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### ResourceNotFoundException

A requested resource could not be found

#### ResourceId

The ID of the AWS resource that could not be found.

#### ResourceType

The type of the AWS resource that could not be found.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to a request throttling.

### QuotaCode

The code of the quota that was exceeded, causing the throttling exception.

### RetryAfterSeconds

The number of seconds after which the action that caused the throttling exception can be retried.

### ServiceCode

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## ValidationException

Contains information about data passed in to a field during a request that is not valid.

### Fields

An array of fields that are associated with the validation exception.

### Message

A message that describes the validation exception.

### Reason

The reason the validation exception was thrown.

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](#)

# GetCostEstimation

Returns an estimate of the monthly cost for DevOps Guru to analyze your AWS resources. For more information, see [Estimate your Amazon DevOps Guru costs](#) and [Amazon DevOps Guru pricing](#).

## Request Syntax

```
GET /cost-estimation?NextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{
  "Costs": [
    {
      "Cost": number,
      "Count": number,
      "State": "string",
      "Type": "string",
      "UnitCost": number
    }
  ]
}
```

```
    }
  ],
  "NextToken": "string",
  "ResourceCollection": {
    "CloudFormation": {
      "StackNames": [ "string" ]
    },
    "Tags": [
      {
        "AppBoundaryKey": "string",
        "TagValues": [ "string" ]
      }
    ]
  },
  "Status": "string",
  "TimeRange": {
    "EndTime": number,
    "StartTime": number
  },
  "TotalCost": 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.

### Costs

An array of `ResourceCost` objects that each contains details about the monthly cost estimate to analyze one of your AWS resources.

Type: Array of [ServiceResourceCost](#) objects

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

### **ResourceCollection**

The collection of the AWS resources used to create your monthly DevOps Guru cost estimate.

Type: [CostEstimationResourceCollectionFilter](#) object

### **Status**

The status of creating this cost estimate. If it's still in progress, the status ONGOING is returned. If it is finished, the status COMPLETED is returned.

Type: String

Valid Values: ONGOING | COMPLETED

### **TimeRange**

The start and end time of the cost estimation.

Type: [CostEstimationTimeRange](#) object

### **TotalCost**

The estimated monthly cost to analyze the AWS resources. This value is the sum of the estimated costs to analyze each resource in the `Costs` object in this response.

Type: Double

## **Errors**

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **InternalServerErrorException**

An internal failure in an Amazon service occurred.

**RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

**ResourceNotFoundException**

A requested resource could not be found

**ResourceId**

The ID of the AWS resource that could not be found.

**ResourceType**

The type of the AWS resource that could not be found.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to a request throttling.

**QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

**RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

**ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

**ValidationException**

Contains information about data passed in to a field during a request that is not valid.

**Fields**

An array of fields that are associated with the validation exception.

**Message**

A message that describes the validation exception.

**Reason**

The reason the validation exception was thrown.

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](#)

# GetResourceCollection

Returns lists of AWS resources that are of the specified resource collection type. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

## Request Syntax

```
GET /resource-collections/ResourceCollectionType?NextToken=NextToken HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

### ResourceCollectionType

The type of AWS resource collection to return. You can use AWS CloudFormation stacks or AWS tags as a resource collection. You can use your resource collection to specify the resources you want DevOps Guru to analyze.

Valid Values: `AWS_CLOUD_FORMATION` | `AWS_SERVICE` | `AWS_TAGS`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "NextToken": "string",
  "ResourceCollection": {
    "CloudFormation": {
      "StackNames": [ "string" ]
    },
    "Tags": [
      {
        "AppBoundaryKey": "string",
        "TagValues": [ "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 pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

### ResourceCollection

The requested list of AWS resource collections. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks

or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollectionFilter](#) object

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### InternalServerError

An internal failure in an Amazon service occurred.

#### RetryAfterSeconds

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### ResourceNotFoundException

A requested resource could not be found

#### ResourceId

The ID of the AWS resource that could not be found.

#### ResourceType

The type of the AWS resource that could not be found.

HTTP Status Code: 404

### ThrottlingException

The request was denied due to a request throttling.

**QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

**RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

**ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

**ValidationException**

Contains information about data passed in to a field during a request that is not valid.

**Fields**

An array of fields that are associated with the validation exception.

**Message**

A message that describes the validation exception.

**Reason**

The reason the validation exception was thrown.

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](#)

# ListAnomaliesForInsight

Returns a list of the anomalies that belong to an insight that you specify using its ID.

## Request Syntax

```
POST /anomalies/insight/InsightId HTTP/1.1
Content-type: application/json
```

```
{
  "AccountId": "string",
  "Filters": {
    "ServiceCollection": {
      "ServiceNames": [ "string" ]
    }
  },
  "MaxResults": number,
  "NextToken": "string",
  "StartTimeRange": {
    "FromTime": number,
    "ToTime": number
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### InsightId

The ID of the insight. The returned anomalies belong to this insight.

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## AccountId

The ID of the AWS account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

## Filters

Specifies one or more service names that are used to list anomalies.

Type: [ListAnomaliesForInsightFilters](#) object

Required: No

## MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 500.

Required: No

## NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

## StartTimeRange

A time range used to specify when the requested anomalies started. All returned anomalies started during this time range.

Type: [StartTimeRange](#) object

Required: No

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "NextToken": "string",
  "ProactiveAnomalies": [
    {
      "AnomalyReportedTimeRange": {
        "CloseTime": number,
        "OpenTime": number
      },
      "AnomalyResources": [
        {
          "Name": "string",
          "Type": "string"
        }
      ],
      "AnomalyTimeRange": {
        "EndTime": number,
        "StartTime": number
      },
      "AssociatedInsightId": "string",
      "Description": "string",
      "Id": "string",
      "Limit": number,
      "PredictionTimeRange": {
        "EndTime": number,
        "StartTime": number
      },
      "ResourceCollection": {
        "CloudFormation": {
          "StackNames": [ "string" ]
        }
      },
      "Tags": [
        {
          "AppBoundaryKey": "string",
          "TagValues": [ "string" ]
        }
      ]
    }
  ]
}
```

```

    }
  ]
},
"Severity": "string",
"SourceDetails": {
  "CloudWatchMetrics": [
    {
      "Dimensions": [
        {
          "Name": "string",
          "Value": "string"
        }
      ],
      "MetricDataSummary": {
        "StatusCode": "string",
        "TimestampMetricValuePairList": [
          {
            "MetricValue": number,
            "Timestamp": number
          }
        ]
      },
      "MetricName": "string",
      "Namespace": "string",
      "Period": number,
      "Stat": "string",
      "Unit": "string"
    }
  ],
  "PerformanceInsightsMetrics": [
    {
      "MetricDisplayName": "string",
      "MetricQuery": {
        "Filter": {
          "string": "string"
        },
        "GroupBy": {
          "Dimensions": [ "string" ],
          "Group": "string",
          "Limit": number
        },
        "Metric": "string"
      },
      "ReferenceData": [

```

```

        {
            "ComparisonValues": {
                "ReferenceMetric": {
                    "MetricQuery": {
                        "Filter": {
                            "string" : "string"
                        },
                        "GroupBy": {
                            "Dimensions": [ "string" ],
                            "Group": "string",
                            "Limit": number
                        },
                        "Metric": "string"
                    }
                },
                "ReferenceScalar": {
                    "Value": number
                }
            },
            "Name": "string"
        }
    ],
    "StatsAtAnomaly": [
        {
            "Type": "string",
            "Value": number
        }
    ],
    "StatsAtBaseline": [
        {
            "Type": "string",
            "Value": number
        }
    ],
    "Unit": "string"
}

]
},
"SourceMetadata": {
    "Source": "string",
    "SourceResourceName": "string",
    "SourceResourceType": "string"
},
"Status": "string",

```

```
    "UpdateTime": number
  },
],
"ReactiveAnomalies": [
  {
    "AnomalyReportedTimeRange": {
      "CloseTime": number,
      "OpenTime": number
    },
    "AnomalyResources": [
      {
        "Name": "string",
        "Type": "string"
      }
    ],
    "AnomalyTimeRange": {
      "EndTime": number,
      "StartTime": number
    },
    "AssociatedInsightId": "string",
    "CausalAnomalyId": "string",
    "Description": "string",
    "Id": "string",
    "Name": "string",
    "ResourceCollection": {
      "CloudFormation": {
        "StackNames": [ "string " ]
      },
      "Tags": [
        {
          "AppBoundaryKey": "string",
          "TagValues": [ "string " ]
        }
      ]
    },
    "Severity": "string",
    "SourceDetails": {
      "CloudWatchMetrics": [
        {
          "Dimensions": [
            {
              "Name": "string",
              "Value": "string"
            }
          ]
        }
      ]
    }
  }
]
```

```

    ],
    "MetricDataSummary": {
      "StatusCode": "string",
      "TimestampMetricValuePairList": [
        {
          "MetricValue": number,
          "Timestamp": number
        }
      ]
    },
    "MetricName": "string",
    "Namespace": "string",
    "Period": number,
    "Stat": "string",
    "Unit": "string"
  }
],
"PerformanceInsightsMetrics": [
  {
    "MetricDisplayName": "string",
    "MetricQuery": {
      "Filter": {
        "string" : "string"
      },
      "GroupBy": {
        "Dimensions": [ "string" ],
        "Group": "string",
        "Limit": number
      },
      "Metric": "string"
    },
    "ReferenceData": [
      {
        "ComparisonValues": {
          "ReferenceMetric": {
            "MetricQuery": {
              "Filter": {
                "string" : "string"
              },
              "GroupBy": {
                "Dimensions": [ "string" ],
                "Group": "string",
                "Limit": number
              }
            }
          }
        }
      }
    ]
  }
]

```

```

        "Metric": "string"
      },
      "ReferenceScalar": {
        "Value": number
      }
    },
    "Name": "string"
  }
],
"StatsAtAnomaly": [
  {
    "Type": "string",
    "Value": number
  }
],
"StatsAtBaseline": [
  {
    "Type": "string",
    "Value": number
  }
],
"Unit": "string"
}
]
},
"Status": "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

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

### **ProactiveAnomalies**

An array of `ProactiveAnomalySummary` objects that represent the requested anomalies

Type: Array of [ProactiveAnomalySummary](#) objects

### **ReactiveAnomalies**

An array of `ReactiveAnomalySummary` objects that represent the requested anomalies

Type: Array of [ReactiveAnomalySummary](#) objects

## **Errors**

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **InternalServerException**

An internal failure in an Amazon service occurred.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ResourceNotFoundException**

A requested resource could not be found

#### **ResourceId**

The ID of the AWS resource that could not be found.

**ResourceType**

The type of the AWS resource that could not be found.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to a request throttling.

**QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

**RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

**ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

**ValidationException**

Contains information about data passed in to a field during a request that is not valid.

**Fields**

An array of fields that are associated with the validation exception.

**Message**

A message that describes the validation exception.

**Reason**

The reason the validation exception was thrown.

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](#)

# ListAnomalousLogGroups

Returns the list of log groups that contain log anomalies.

## Request Syntax

```
POST /list-log-anomalies HTTP/1.1
Content-type: application/json
```

```
{
  "InsightId": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### [InsightId](#)

The ID of the insight containing the log groups.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: Yes

### [MaxResults](#)

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 200.

Required: No

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

## Response Syntax

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

{
  "AnomalousLogGroups": [
    {
      "ImpactEndTime": number,
      "ImpactStartTime": number,
      "LogAnomalyShowcases": [
        {
          "LogAnomalyClasses": [
            {
              "Explanation": "string",
              "LogAnomalyToken": "string",
              "LogAnomalyType": "string",
              "LogEventId": "string",
              "LogEventTimestamp": number,
              "LogStreamName": "string",
              "NumberOfLogLinesOccurrences": number
            }
          ]
        }
      ],
      "LogGroupName": "string",
```

```
    "NumberOfLogLinesScanned": number
  },
  "InsightId": "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.

### [AnomalousLogGroups](#)

The list of Amazon CloudWatch log groups that are related to an insight.

Type: Array of [AnomalousLogGroup](#) objects

### [InsightId](#)

The ID of the insight containing the log groups.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

### [NextToken](#)

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

## InternalServerError

An internal failure in an Amazon service occurred.

### RetryAfterSeconds

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

## ResourceNotFoundException

A requested resource could not be found

### ResourceId

The ID of the AWS resource that could not be found.

### ResourceType

The type of the AWS resource that could not be found.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to a request throttling.

### QuotaCode

The code of the quota that was exceeded, causing the throttling exception.

### RetryAfterSeconds

The number of seconds after which the action that caused the throttling exception can be retried.

### ServiceCode

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## **ValidationException**

Contains information about data passed in to a field during a request that is not valid.

### **Fields**

An array of fields that are associated with the validation exception.

### **Message**

A message that describes the validation exception.

### **Reason**

The reason the validation exception was thrown.

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](#)

# ListEvents

Returns a list of the events emitted by the resources that are evaluated by DevOps Guru. You can use filters to specify which events are returned.

## Request Syntax

```
POST /events HTTP/1.1
Content-type: application/json

{
  "AccountId": "string",
  "Filters": {
    "DataSource": "string",
    "EventClass": "string",
    "EventSource": "string",
    "EventTimeRange": {
      "FromTime": number,
      "ToTime": number
    },
    "InsightId": "string",
    "ResourceCollection": {
      "CloudFormation": {
        "StackNames": [ "string" ]
      },
      "Tags": [
        {
          "AppBoundaryKey": "string",
          "TagValues": [ "string" ]
        }
      ]
    }
  },
  "MaxResults": number,
  "NextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AccountId

The ID of the AWS account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### Filters

A `ListEventsFilters` object used to specify which events to return.

Type: [ListEventsFilters](#) object

Required: Yes

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 200.

Required: No

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "Events": [
    {
      "DataSource": "string",
      "EventClass": "string",
      "EventSource": "string",
      "Id": "string",
      "Name": "string",
      "ResourceCollection": {
        "CloudFormation": {
          "StackNames": [ "string" ]
        },
        "Tags": [
          {
            "AppBoundaryKey": "string",
            "TagValues": [ "string" ]
          }
        ]
      },
      "Resources": [
        {
          "Arn": "string",
          "Name": "string",
          "Type": "string"
        }
      ],
      "Time": 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.

## Events

A list of the requested events.

Type: Array of [Event](#) objects

## NextToken

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **InternalServerErrorException**

An internal failure in an Amazon service occurred.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ResourceNotFoundException**

A requested resource could not be found

**ResourceId**

The ID of the AWS resource that could not be found.

**ResourceType**

The type of the AWS resource that could not be found.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to a request throttling.

**QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

**RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

**ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

**ValidationException**

Contains information about data passed in to a field during a request that is not valid.

**Fields**

An array of fields that are associated with the validation exception.

**Message**

A message that describes the validation exception.

**Reason**

The reason the validation exception was thrown.

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](#)

# ListInsights

Returns a list of insights in your AWS account. You can specify which insights are returned by their start time and status (ONGOING, CLOSED, or ANY).

## Request Syntax

```
POST /insights HTTP/1.1
Content-type: application/json

{
  "MaxResults": number,
  "NextToken": "string",
  "StatusFilter": {
    "Any": {
      "StartTimeRange": {
        "FromTime": number,
        "ToTime": number
      },
      "Type": "string"
    },
    "Closed": {
      "EndTimeRange": {
        "FromTime": number,
        "ToTime": number
      },
      "Type": "string"
    },
    "Ongoing": {
      "Type": "string"
    }
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

## MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

## NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

## StatusFilter

A filter used to filter the returned insights by their status. You can specify one status filter.

Type: [ListInsightsStatusFilter](#) object

Required: Yes

## Response Syntax

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

{
  "NextToken": "string",
  "ProactiveInsights": [
    {
      "AssociatedResourceArns": [ "string" ],
      "Id": "string",
      "InsightTimeRange": {
        "EndTime": number,
```

```

        "StartTime": number
    },
    "Name": "string",
    "PredictionTimeRange": {
        "EndTime": number,
        "StartTime": number
    },
    "ResourceCollection": {
        "CloudFormation": {
            "StackNames": [ "string" ]
        },
        "Tags": [
            {
                "AppBoundaryKey": "string",
                "TagValues": [ "string" ]
            }
        ]
    },
    "ServiceCollection": {
        "ServiceNames": [ "string" ]
    },
    "Severity": "string",
    "Status": "string"
}
],
"ReactiveInsights": [
    {
        "AssociatedResourceArns": [ "string" ],
        "Id": "string",
        "InsightTimeRange": {
            "EndTime": number,
            "StartTime": number
        },
        "Name": "string",
        "ResourceCollection": {
            "CloudFormation": {
                "StackNames": [ "string" ]
            },
            "Tags": [
                {
                    "AppBoundaryKey": "string",
                    "TagValues": [ "string" ]
                }
            ]
        }
    }
]

```

```
    },  
    "ServiceCollection": {  
      "ServiceNames": [ "string" ]  
    },  
    "Severity": "string",  
    "Status": "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 pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

### [ProactiveInsights](#)

The returned list of proactive insights.

Type: Array of [ProactiveInsightSummary](#) objects

### [ReactiveInsights](#)

The returned list of reactive insights.

Type: Array of [ReactiveInsightSummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

## InternalServerError

An internal failure in an Amazon service occurred.

### RetryAfterSeconds

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

## ThrottlingException

The request was denied due to a request throttling.

### QuotaCode

The code of the quota that was exceeded, causing the throttling exception.

### RetryAfterSeconds

The number of seconds after which the action that caused the throttling exception can be retried.

### ServiceCode

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## ValidationException

Contains information about data passed in to a field during a request that is not valid.

### Fields

An array of fields that are associated with the validation exception.

### Message

A message that describes the validation exception.

## Reason

The reason the validation exception was thrown.

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](#)

# ListMonitoredResources

Returns the list of resources that are being monitored by DevOps Guru.

## Request Syntax

```
POST /monitoredResources HTTP/1.1
Content-type: application/json

{
  "Filters": {
    "ResourcePermission": "string",
    "ResourceTypeFilters": [ "string" ]
  },
  "MaxResults": number,
  "NextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### Filters

Filters to determine which monitored resources you want to retrieve. You can filter by resource type or resource permission status.

Type: [ListMonitoredResourcesFilters](#) object

Required: No

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned nextToken value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

## Response Syntax

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

{
  "MonitoredResourceIdentifiers": [
    {
      "LastUpdated": number,
      "MonitoredResourceName": "string",
      "ResourceCollection": {
        "CloudFormation": {
          "StackNames": [ "string" ]
        },
        "Tags": [
          {
            "AppBoundaryKey": "string",
            "TagValues": [ "string" ]
          }
        ]
      },
      "ResourcePermission": "string",
      "Type": "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.

### MonitoredResourceIdentifiers

Information about the resource that is being monitored, including the name of the resource, the type of resource, and whether or not permission is given to DevOps Guru to access that resource.

Type: Array of [MonitoredResourceIdentifier](#) objects

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **InternalServerError**

An internal failure in an Amazon service occurred.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

## **ResourceNotFoundException**

A requested resource could not be found

### **ResourceId**

The ID of the AWS resource that could not be found.

### **ResourceType**

The type of the AWS resource that could not be found.

HTTP Status Code: 404

## **ThrottlingException**

The request was denied due to a request throttling.

### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

### **RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

### **ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## **ValidationException**

Contains information about data passed in to a field during a request that is not valid.

### **Fields**

An array of fields that are associated with the validation exception.

### **Message**

A message that describes the validation exception.

### **Reason**

The reason the validation exception was thrown.

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](#)

# ListNotificationChannels

Returns a list of notification channels configured for DevOps Guru. Each notification channel is used to notify you when DevOps Guru generates an insight that contains information about how to improve your operations. The one supported notification channel is Amazon Simple Notification Service (Amazon SNS).

## Request Syntax

```
POST /channels HTTP/1.1
Content-type: application/json

{
  "NextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

## Response Syntax

```
HTTP/1.1 200
```

Content-type: application/json

```
{
  "Channels": [
    {
      "Config": {
        "Filters": {
          "MessageTypes": [ "string" ],
          "Severities": [ "string" ]
        },
        "Sns": {
          "TopicArn": "string"
        }
      },
      "Id": "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.

### Channels

An array that contains the requested notification channels.

Type: Array of [NotificationChannel](#) objects

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **InternalServerErrorException**

An internal failure in an Amazon service occurred.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to a request throttling.

#### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

#### **ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

### **ValidationException**

Contains information about data passed in to a field during a request that is not valid.

## Fields

An array of fields that are associated with the validation exception.

## Message

A message that describes the validation exception.

## Reason

The reason the validation exception was thrown.

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](#)

# ListOrganizationInsights

Returns a list of insights associated with the account or OU Id.

## Request Syntax

```
POST /organization/insights HTTP/1.1
```

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

```
{
  "AccountIds": [ "string" ],
  "MaxResults": number,
  "NextToken": "string",
  "OrganizationalUnitIds": [ "string" ],
  "StatusFilter": {
    "Any": {
      "StartTimeRange": {
        "FromTime": number,
        "ToTime": number
      },
      "Type": "string"
    },
    "Closed": {
      "EndTimeRange": {
        "FromTime": number,
        "ToTime": number
      },
      "Type": "string"
    },
    "Ongoing": {
      "Type": "string"
    }
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

## AccountIds

The ID of the AWS account.

Type: Array of strings

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

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

## MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

## NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

## OrganizationalUnitIds

The ID of the organizational unit.

Type: Array of strings

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

Length Constraints: Maximum length of 68.

Pattern: `^ou-[0-9a-z]{4,32}-[a-z0-9]{8,32}$`

Required: No

### StatusFilter

A filter used by `ListInsights` to specify which insights to return.

Type: [ListInsightsStatusFilter](#) object

Required: Yes

## Response Syntax

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

{
  "NextToken": "string",
  "ProactiveInsights": [
    {
      "AccountId": "string",
      "Id": "string",
      "InsightTimeRange": {
        "EndTime": number,
        "StartTime": number
      },
      "Name": "string",
      "OrganizationalUnitId": "string",
      "PredictionTimeRange": {
        "EndTime": number,
        "StartTime": number
      },
      "ResourceCollection": {
        "CloudFormation": {
          "StackNames": [ "string" ]
        },
        "Tags": [
          {
            "AppBoundaryKey": "string",
            "TagValues": [ "string" ]
          }
        ]
      }
    }
  ]
}
```

```

    },
    "ServiceCollection": {
      "ServiceNames": [ "string" ]
    },
    "Severity": "string",
    "Status": "string"
  }
],
"ReactiveInsights": [
  {
    "AccountId": "string",
    "Id": "string",
    "InsightTimeRange": {
      "EndTime": number,
      "StartTime": number
    },
    "Name": "string",
    "OrganizationalUnitId": "string",
    "ResourceCollection": {
      "CloudFormation": {
        "StackNames": [ "string" ]
      },
      "Tags": [
        {
          "AppBoundaryKey": "string",
          "TagValues": [ "string" ]
        }
      ]
    },
    "ServiceCollection": {
      "ServiceNames": [ "string" ]
    },
    "Severity": "string",
    "Status": "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 pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

## **ProactiveInsights**

An integer that specifies the number of open proactive insights in your AWS account.

Type: Array of [ProactiveOrganizationInsightSummary](#) objects

## **ReactiveInsights**

An integer that specifies the number of open reactive insights in your AWS account.

Type: Array of [ReactiveOrganizationInsightSummary](#) objects

# **Errors**

For information about the errors that are common to all actions, see [Common Error Types](#).

## **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

## **InternalServerErrorException**

An internal failure in an Amazon service occurred.

## **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

## ThrottlingException

The request was denied due to a request throttling.

### QuotaCode

The code of the quota that was exceeded, causing the throttling exception.

### RetryAfterSeconds

The number of seconds after which the action that caused the throttling exception can be retried.

### ServiceCode

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## ValidationException

Contains information about data passed in to a field during a request that is not valid.

### Fields

An array of fields that are associated with the validation exception.

### Message

A message that describes the validation exception.

### Reason

The reason the validation exception was thrown.

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](#)

# ListRecommendations

Returns a list of a specified insight's recommendations. Each recommendation includes a list of related metrics and a list of related events.

## Request Syntax

```
POST /recommendations HTTP/1.1
Content-type: application/json
```

```
{
  "AccountId": "string",
  "InsightId": "string",
  "Locale": "string",
  "NextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AccountId

The ID of the AWS account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### InsightId

The ID of the requested insight.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: Yes

## Locale

A locale that specifies the language to use for recommendations.

Type: String

Valid Values: DE\_DE | EN\_US | EN\_GB | ES\_ES | FR\_FR | IT\_IT | JA\_JP | KO\_KR  
| PT\_BR | ZH\_CN | ZH\_TW

Required: No

## NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

## Response Syntax

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

{
  "NextToken": "string",
  "Recommendations": [
    {
      "Category": "string",
      "Description": "string",
      "Link": "string",
```

```

    "Name": "string",
    "Reason": "string",
    "RelatedAnomalies": [
      {
        "AnomalyId": "string",
        "Resources": [
          {
            "Name": "string",
            "Type": "string"
          }
        ],
        "SourceDetails": [
          {
            "CloudWatchMetrics": [
              {
                "MetricName": "string",
                "Namespace": "string"
              }
            ]
          }
        ]
      }
    ],
    "RelatedEvents": [
      {
        "Name": "string",
        "Resources": [
          {
            "Name": "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**

The pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

## **Recommendations**

An array of the requested recommendations.

Type: Array of [Recommendation](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

## **Errors**

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **InternalServerErrorException**

An internal failure in an Amazon service occurred.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ResourceNotFoundException**

A requested resource could not be found

**ResourceId**

The ID of the AWS resource that could not be found.

**ResourceType**

The type of the AWS resource that could not be found.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to a request throttling.

**QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

**RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

**ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

**ValidationException**

Contains information about data passed in to a field during a request that is not valid.

**Fields**

An array of fields that are associated with the validation exception.

**Message**

A message that describes the validation exception.

**Reason**

The reason the validation exception was thrown.

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](#)

# PutFeedback

Collects customer feedback about the specified insight.

## Request Syntax

```
PUT /feedback HTTP/1.1
Content-type: application/json

{
  "InsightFeedback": {
    "Feedback": "string",
    "Id": "string"
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### InsightFeedback

The feedback from customers is about the recommendations in this insight.

Type: [InsightFeedback](#) 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

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **ConflictException**

An exception that is thrown when a conflict occurs.

#### **ResourceId**

The ID of the AWS resource in which a conflict occurred.

#### **ResourceType**

The type of the AWS resource in which a conflict occurred.

HTTP Status Code: 409

### **InternalServerErrorException**

An internal failure in an Amazon service occurred.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ResourceNotFoundException**

A requested resource could not be found

#### **ResourceId**

The ID of the AWS resource that could not be found.

#### **ResourceType**

The type of the AWS resource that could not be found.

HTTP Status Code: 404

## **ThrottlingException**

The request was denied due to a request throttling.

### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

### **RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

### **ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## **ValidationException**

Contains information about data passed in to a field during a request that is not valid.

### **Fields**

An array of fields that are associated with the validation exception.

### **Message**

A message that describes the validation exception.

### **Reason**

The reason the validation exception was thrown.

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](#)

# RemoveNotificationChannel

Removes a notification channel from DevOps Guru. A notification channel is used to notify you when DevOps Guru generates an insight that contains information about how to improve your operations.

## Request Syntax

```
DELETE /channels/Id HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### Id

The ID of the notification channel to be removed.

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

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

For information about the errors that are common to all actions, see [Common Error Types](#).

## AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

## ConflictException

An exception that is thrown when a conflict occurs.

### ResourceId

The ID of the AWS resource in which a conflict occurred.

### ResourceType

The type of the AWS resource in which a conflict occurred.

HTTP Status Code: 409

## InternalServerErrorException

An internal failure in an Amazon service occurred.

### RetryAfterSeconds

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

## ResourceNotFoundException

A requested resource could not be found

### ResourceId

The ID of the AWS resource that could not be found.

### ResourceType

The type of the AWS resource that could not be found.

HTTP Status Code: 404

## ThrottlingException

The request was denied due to a request throttling.

### QuotaCode

The code of the quota that was exceeded, causing the throttling exception.

### RetryAfterSeconds

The number of seconds after which the action that caused the throttling exception can be retried.

### ServiceCode

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## ValidationException

Contains information about data passed in to a field during a request that is not valid.

### Fields

An array of fields that are associated with the validation exception.

### Message

A message that describes the validation exception.

### Reason

The reason the validation exception was thrown.

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](#)

# SearchInsights

Returns a list of insights in your AWS account. You can specify which insights are returned by their start time, one or more statuses (ONGOING or CLOSED), one or more severities (LOW, MEDIUM, and HIGH), and type (REACTIVE or PROACTIVE).

Use the `Filters` parameter to specify status and severity search parameters. Use the `Type` parameter to specify REACTIVE or PROACTIVE in your search.

## Request Syntax

```
POST /insights/search HTTP/1.1
Content-type: application/json
```

```
{
  "Filters": {
    "ResourceCollection": {
      "CloudFormation": {
        "StackNames": [ "string" ]
      },
      "Tags": [
        {
          "AppBoundaryKey": "string",
          "TagValues": [ "string" ]
        }
      ]
    },
    "ServiceCollection": {
      "ServiceNames": [ "string" ]
    },
    "Severities": [ "string" ],
    "Statuses": [ "string" ]
  },
  "MaxResults": number,
  "NextToken": "string",
  "StartTimeRange": {
    "FromTime": number,
    "ToTime": number
  },
  "Type": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### Filters

A `SearchInsightsFilters` object that is used to set the severity and status filters on your insight search.

Type: [SearchInsightsFilters](#) object

Required: No

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

### StartTimeRange

The start of the time range passed in. Returned insights occurred after this time.

Type: [StartTimeRange](#) object

Required: Yes

## Type

The type of insights you are searching for (REACTIVE or PROACTIVE).

Type: String

Valid Values: REACTIVE | PROACTIVE

Required: Yes

## Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "NextToken": "string",
  "ProactiveInsights": [
    {
      "AssociatedResourceArns": [ "string" ],
      "Id": "string",
      "InsightTimeRange": {
        "EndTime": number,
        "StartTime": number
      },
      "Name": "string",
      "PredictionTimeRange": {
        "EndTime": number,
        "StartTime": number
      },
      "ResourceCollection": {
        "CloudFormation": {
          "StackNames": [ "string" ]
        },
        "Tags": [
          {
            "AppBoundaryKey": "string",
            "TagValues": [ "string" ]
          }
        ]
      }
    }
  ]
}
```

```

    ]
  },
  "ServiceCollection": {
    "ServiceNames": [ "string" ]
  },
  "Severity": "string",
  "Status": "string"
}
],
"ReactiveInsights": [
{
  "AssociatedResourceArns": [ "string" ],
  "Id": "string",
  "InsightTimeRange": {
    "EndTime": number,
    "StartTime": number
  },
  "Name": "string",
  "ResourceCollection": {
    "CloudFormation": {
      "StackNames": [ "string" ]
    },
    "Tags": [
      {
        "AppBoundaryKey": "string",
        "TagValues": [ "string" ]
      }
    ]
  },
  "ServiceCollection": {
    "ServiceNames": [ "string" ]
  },
  "Severity": "string",
  "Status": "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 pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

## **ProactiveInsights**

The returned proactive insights.

Type: Array of [ProactiveInsightSummary](#) objects

## **ReactiveInsights**

The returned reactive insights.

Type: Array of [ReactiveInsightSummary](#) objects

# **Errors**

For information about the errors that are common to all actions, see [Common Error Types](#).

## **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

## **InternalServerErrorException**

An internal failure in an Amazon service occurred.

## **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

## ThrottlingException

The request was denied due to a request throttling.

### QuotaCode

The code of the quota that was exceeded, causing the throttling exception.

### RetryAfterSeconds

The number of seconds after which the action that caused the throttling exception can be retried.

### ServiceCode

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## ValidationException

Contains information about data passed in to a field during a request that is not valid.

### Fields

An array of fields that are associated with the validation exception.

### Message

A message that describes the validation exception.

### Reason

The reason the validation exception was thrown.

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](#)

# SearchOrganizationInsights

Returns a list of insights in your organization. You can specify which insights are returned by their start time, one or more statuses (ONGOING, CLOSED, and CLOSED), one or more severities (LOW, MEDIUM, and HIGH), and type (REACTIVE or PROACTIVE).

Use the `Filters` parameter to specify status and severity search parameters. Use the `Type` parameter to specify REACTIVE or PROACTIVE in your search.

## Request Syntax

```
POST /organization/insights/search HTTP/1.1
Content-type: application/json
```

```
{
  "AccountIds": [ "string" ],
  "Filters": {
    "ResourceCollection": {
      "CloudFormation": {
        "StackNames": [ "string" ]
      },
      "Tags": [
        {
          "AppBoundaryKey": "string",
          "TagValues": [ "string" ]
        }
      ]
    },
    "ServiceCollection": {
      "ServiceNames": [ "string" ]
    },
    "Severities": [ "string" ],
    "Statuses": [ "string" ]
  },
  "MaxResults": number,
  "NextToken": "string",
  "StartTimeRange": {
    "FromTime": number,
    "ToTime": number
  },
  "Type": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### AccountIds

The ID of the AWS account.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: Yes

### Filters

A `SearchOrganizationInsightsFilters` object that is used to set the severity and status filters on your insight search.

Type: [SearchOrganizationInsightsFilters](#) object

Required: No

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

### NextToken

The pagination token to use to retrieve the next page of results for this operation. If this value is null, it retrieves the first page.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

Required: No

### StartTimeRange

A time range used to specify when the behavior of an insight or anomaly started.

Type: [StartTimeRange](#) object

Required: Yes

### Type

The type of insights you are searching for (REACTIVE or PROACTIVE).

Type: String

Valid Values: REACTIVE | PROACTIVE

Required: Yes

## Response Syntax

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

{
  "NextToken": "string",
  "ProactiveInsights": [
    {
      "AssociatedResourceArns": [ "string" ],
      "Id": "string",
      "InsightTimeRange": {
        "EndTime": number,
        "StartTime": number
      },
      "Name": "string",
      "PredictionTimeRange": {
        "EndTime": number,
        "StartTime": number
      }
    }
  ]
}
```

```

    },
    "ResourceCollection": {
      "CloudFormation": {
        "StackNames": [ "string" ]
      },
      "Tags": [
        {
          "AppBoundaryKey": "string",
          "TagValues": [ "string" ]
        }
      ]
    },
    "ServiceCollection": {
      "ServiceNames": [ "string" ]
    },
    "Severity": "string",
    "Status": "string"
  }
],
"ReactiveInsights": [
  {
    "AssociatedResourceArns": [ "string" ],
    "Id": "string",
    "InsightTimeRange": {
      "EndTime": number,
      "StartTime": number
    },
    "Name": "string",
    "ResourceCollection": {
      "CloudFormation": {
        "StackNames": [ "string" ]
      },
      "Tags": [
        {
          "AppBoundaryKey": "string",
          "TagValues": [ "string" ]
        }
      ]
    },
    "ServiceCollection": {
      "ServiceNames": [ "string" ]
    },
    "Severity": "string",
    "Status": "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 pagination token to use to retrieve the next page of results for this operation. If there are no more pages, this value is null.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

### ProactiveInsights

An integer that specifies the number of open proactive insights in your AWS account.

Type: Array of [ProactiveInsightSummary](#) objects

### ReactiveInsights

An integer that specifies the number of open reactive insights in your AWS account.

Type: Array of [ReactiveInsightSummary](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **InternalServerErrorException**

An internal failure in an Amazon service occurred.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to a request throttling.

#### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

#### **ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

### **ValidationException**

Contains information about data passed in to a field during a request that is not valid.

#### **Fields**

An array of fields that are associated with the validation exception.

#### **Message**

A message that describes the validation exception.

#### **Reason**

The reason the validation exception was thrown.

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](#)

# StartCostEstimation

Starts the creation of an estimate of the monthly cost to analyze your AWS resources.

## Request Syntax

```
PUT /cost-estimation HTTP/1.1
Content-type: application/json

{
  "ClientToken": "string",
  "ResourceCollection": {
    "CloudFormation": {
      "StackNames": [ "string" ]
    },
    "Tags": [
      {
        "AppBoundaryKey": "string",
        "TagValues": [ "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 idempotency token used to identify each cost estimate request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

Required: No

## **ResourceCollection**

The collection of AWS resources used to create a monthly DevOps Guru cost estimate.

Type: [CostEstimationResourceCollectionFilter](#) 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**

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **ConflictException**

An exception that is thrown when a conflict occurs.

#### **ResourceId**

The ID of the AWS resource in which a conflict occurred.

#### **ResourceType**

The type of the AWS resource in which a conflict occurred.

HTTP Status Code: 409

## **InternalServerErrorException**

An internal failure in an Amazon service occurred.

### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

## **ResourceNotFoundException**

A requested resource could not be found

### **ResourceId**

The ID of the AWS resource that could not be found.

### **ResourceType**

The type of the AWS resource that could not be found.

HTTP Status Code: 404

## **ThrottlingException**

The request was denied due to a request throttling.

### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

### **RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

### **ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## **ValidationException**

Contains information about data passed in to a field during a request that is not valid.

## Fields

An array of fields that are associated with the validation exception.

## Message

A message that describes the validation exception.

## Reason

The reason the validation exception was thrown.

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](#)

# UpdateEventSourcesConfig

Enables or disables integration with a service that can be integrated with DevOps Guru. The one service that can be integrated with DevOps Guru is Amazon CodeGuru Profiler, which can produce proactive recommendations which can be stored and viewed in DevOps Guru.

## Request Syntax

```
PUT /event-sources HTTP/1.1
Content-type: application/json

{
  "EventSources": {
    "AmazonCodeGuruProfiler": {
      "Status": "string"
    }
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### EventSources

Configuration information about the integration of DevOps Guru as the Consumer via EventBridge with another AWS Service.

Type: [EventSourcesConfig](#) 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

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **InternalServerErrorException**

An internal failure in an Amazon service occurred.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to a request throttling.

#### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

#### **ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## ValidationException

Contains information about data passed in to a field during a request that is not valid.

### Fields

An array of fields that are associated with the validation exception.

### Message

A message that describes the validation exception.

### Reason

The reason the validation exception was thrown.

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](#)

# UpdateResourceCollection

Updates the collection of resources that DevOps Guru analyzes. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks. This method also creates the IAM role required for you to use DevOps Guru.

## Request Syntax

```
PUT /resource-collections HTTP/1.1
Content-type: application/json

{
  "Action": "string",
  "ResourceCollection": {
    "CloudFormation": {
      "StackNames": [ "string" ]
    },
    "Tags": [
      {
        "AppBoundaryKey": "string",
        "TagValues": [ "string" ]
      }
    ]
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### Action

Specifies if the resource collection in the request is added or deleted to the resource collection.

Type: String

Valid Values: ADD | REMOVE

Required: Yes

### **ResourceCollection**

Contains information used to update a collection of AWS resources.

Type: [UpdateResourceCollectionFilter](#) 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**

For information about the errors that are common to all actions, see [Common Error Types](#).

### **AccessDeniedException**

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### **ConflictException**

An exception that is thrown when a conflict occurs.

#### **ResourceId**

The ID of the AWS resource in which a conflict occurred.

#### **ResourceType**

The type of the AWS resource in which a conflict occurred.

HTTP Status Code: 409

### **InternalServerErrorException**

An internal failure in an Amazon service occurred.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

### **ThrottlingException**

The request was denied due to a request throttling.

#### **QuotaCode**

The code of the quota that was exceeded, causing the throttling exception.

#### **RetryAfterSeconds**

The number of seconds after which the action that caused the throttling exception can be retried.

#### **ServiceCode**

The code of the service that caused the throttling exception.

HTTP Status Code: 429

### **ValidationException**

Contains information about data passed in to a field during a request that is not valid.

#### **Fields**

An array of fields that are associated with the validation exception.

#### **Message**

A message that describes the validation exception.

#### **Reason**

The reason the validation exception was thrown.

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](#)

# UpdateServiceIntegration

Enables or disables integration with a service that can be integrated with DevOps Guru.

## Request Syntax

```
PUT /service-integrations HTTP/1.1
Content-type: application/json
```

```
{
  "ServiceIntegration": {
    "KMSServerSideEncryption": {
      "KMSKeyId": "string",
      "OptInStatus": "string",
      "Type": "string"
    },
    "LogsAnomalyDetection": {
      "OptInStatus": "string"
    },
    "OpsCenter": {
      "OptInStatus": "string"
    }
  }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ServiceIntegration

An `IntegratedServiceConfig` object used to specify the integrated service you want to update, and whether you want to update it to enabled or disabled.

Type: [UpdateServiceIntegrationConfig](#) 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

For information about the errors that are common to all actions, see [Common Error Types](#).

### AccessDeniedException

You don't have permissions to perform the requested operation. The user or role that is making the request must have at least one IAM permissions policy attached that grants the required permissions. For more information, see [Access Management](#) in the *IAM User Guide*.

HTTP Status Code: 403

### ConflictException

An exception that is thrown when a conflict occurs.

#### ResourceId

The ID of the AWS resource in which a conflict occurred.

#### ResourceType

The type of the AWS resource in which a conflict occurred.

HTTP Status Code: 409

### InternalServerErrorException

An internal failure in an Amazon service occurred.

#### RetryAfterSeconds

The number of seconds after which the action that caused the internal server exception can be retried.

HTTP Status Code: 500

## ThrottlingException

The request was denied due to a request throttling.

### QuotaCode

The code of the quota that was exceeded, causing the throttling exception.

### RetryAfterSeconds

The number of seconds after which the action that caused the throttling exception can be retried.

### ServiceCode

The code of the service that caused the throttling exception.

HTTP Status Code: 429

## ValidationException

Contains information about data passed in to a field during a request that is not valid.

### Fields

An array of fields that are associated with the validation exception.

### Message

A message that describes the validation exception.

### Reason

The reason the validation exception was thrown.

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 Amazon DevOps Guru API contains several data types that various actions use. This section describes each data type in detail.

## Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [AccountHealth](#)
- [AccountInsightHealth](#)
- [AmazonCodeGuruProfilerIntegration](#)
- [AnomalousLogGroup](#)
- [AnomalyReportedTimeRange](#)
- [AnomalyResource](#)
- [AnomalySourceDetails](#)
- [AnomalySourceMetadata](#)
- [AnomalyTimeRange](#)
- [CloudFormationCollection](#)
- [CloudFormationCollectionFilter](#)
- [CloudFormationCostEstimationResourceCollectionFilter](#)
- [CloudFormationHealth](#)
- [CloudWatchMetricsDataSummary](#)
- [CloudWatchMetricsDetail](#)
- [CloudWatchMetricsDimension](#)
- [CostEstimationResourceCollectionFilter](#)
- [CostEstimationTimeRange](#)
- [EndTimeRange](#)
- [Event](#)

- [EventResource](#)
- [EventSourcesConfig](#)
- [EventTimeRange](#)
- [InsightFeedback](#)
- [InsightHealth](#)
- [InsightTimeRange](#)
- [KMSServerSideEncryptionIntegration](#)
- [KMSServerSideEncryptionIntegrationConfig](#)
- [ListAnomaliesForInsightFilters](#)
- [ListEventsFilters](#)
- [ListInsightsAnyStatusFilter](#)
- [ListInsightsClosedStatusFilter](#)
- [ListInsightsOngoingStatusFilter](#)
- [ListInsightsStatusFilter](#)
- [ListMonitoredResourcesFilters](#)
- [LogAnomalyClass](#)
- [LogAnomalyShowcase](#)
- [LogsAnomalyDetectionIntegration](#)
- [LogsAnomalyDetectionIntegrationConfig](#)
- [MonitoredResourceIdentifier](#)
- [NotificationChannel](#)
- [NotificationChannelConfig](#)
- [NotificationFilterConfig](#)
- [OpsCenterIntegration](#)
- [OpsCenterIntegrationConfig](#)
- [PerformanceInsightsMetricDimensionGroup](#)
- [PerformanceInsightsMetricQuery](#)
- [PerformanceInsightsMetricsDetail](#)
- [PerformanceInsightsReferenceComparisonValues](#)
- [PerformanceInsightsReferenceData](#)

- [PerformanceInsightsReferenceMetric](#)
- [PerformanceInsightsReferenceScalar](#)
- [PerformanceInsightsStat](#)
- [PredictionTimeRange](#)
- [ProactiveAnomaly](#)
- [ProactiveAnomalySummary](#)
- [ProactiveInsight](#)
- [ProactiveInsightSummary](#)
- [ProactiveOrganizationInsightSummary](#)
- [ReactiveAnomaly](#)
- [ReactiveAnomalySummary](#)
- [ReactiveInsight](#)
- [ReactiveInsightSummary](#)
- [ReactiveOrganizationInsightSummary](#)
- [Recommendation](#)
- [RecommendationRelatedAnomaly](#)
- [RecommendationRelatedAnomalyResource](#)
- [RecommendationRelatedAnomalySourceDetail](#)
- [RecommendationRelatedCloudWatchMetricsSourceDetail](#)
- [RecommendationRelatedEvent](#)
- [RecommendationRelatedEventResource](#)
- [ResourceCollection](#)
- [ResourceCollectionFilter](#)
- [SearchInsightsFilters](#)
- [SearchOrganizationInsightsFilters](#)
- [ServiceCollection](#)
- [ServiceHealth](#)
- [ServiceInsightHealth](#)
- [ServiceIntegrationConfig](#)
- [ServiceResourceCost](#)

- [SnsChannelConfig](#)
- [StartTimeRange](#)
- [TagCollection](#)
- [TagCollectionFilter](#)
- [TagCostEstimationResourceCollectionFilter](#)
- [TagHealth](#)
- [TimestampMetricValuePair](#)
- [UpdateCloudFormationCollectionFilter](#)
- [UpdateResourceCollectionFilter](#)
- [UpdateServiceIntegrationConfig](#)
- [UpdateTagCollectionFilter](#)
- [ValidationExceptionField](#)

# AccountHealth

Returns the number of open reactive insights, the number of open proactive insights, and the number of metrics analyzed in your AWS account. Use these numbers to gauge the health of operations in your AWS account.

## Contents

### AccountId

The ID of the AWS account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### Insight

Information about the health of the AWS resources in your account, including the number of open proactive, open reactive insights, and the Mean Time to Recover (MTTR) of closed insights.

Type: [AccountInsightHealth](#) 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](#)

# AccountInsightHealth

Information about the number of open reactive and proactive insights that can be used to gauge the health of your system.

## Contents

### OpenProactiveInsights

An integer that specifies the number of open proactive insights in your AWS account.

Type: Integer

Required: No

### OpenReactiveInsights

An integer that specifies the number of open reactive insights in your AWS account.

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](#)

# AmazonCodeGuruProfilerIntegration

Information about your account's integration with Amazon CodeGuru Profiler. This returns whether DevOps Guru is configured to consume recommendations generated from Amazon CodeGuru Profiler.

## Contents

### Status

The status of the CodeGuru Profiler integration. Specifies if DevOps Guru is enabled to consume recommendations that are generated from Amazon CodeGuru Profiler.

Type: String

Valid Values: ENABLED | 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](#)

# AnomalousLogGroup

An Amazon CloudWatch log group that contains log anomalies and is used to generate an insight.

## Contents

### ImpactEndTime

The time the anomalous log events stopped.

Type: Timestamp

Required: No

### ImpactStartTime

The time the anomalous log events began. The impact start time indicates the time of the first log anomaly event that occurs.

Type: Timestamp

Required: No

### LogAnomalyShowcases

The log anomalies in the log group. Each log anomaly displayed represents a cluster of similar anomalous log events.

Type: Array of [LogAnomalyShowcase](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: No

### LogGroupName

The name of the CloudWatch log group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

## NumberOfLogLinesScanned

The number of log lines that were scanned for anomalous log events.

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](#)

# AnomalyReportedTimeRange

A time range that specifies when DevOps Guru opens and then closes an anomaly. This is different from `AnomalyTimeRange`, which specifies the time range when DevOps Guru actually observes the anomalous behavior.

## Contents

### OpenTime

The time when an anomaly is opened.

Type: Timestamp

Required: Yes

### CloseTime

The time when an anomaly is closed.

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](#)

# AnomalyResource

The AWS resources in which DevOps Guru detected unusual behavior that resulted in the generation of an anomaly. When DevOps Guru detects multiple related anomalies, it creates an insight with details about the anomalous behavior and suggestions about how to correct the problem.

## Contents

### Name

The name of the AWS resource.

Type: String

Required: No

### Type

The type of the AWS resource.

Type: String

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

Pattern: `^[a-zA-Z][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](#)

# AnomalySourceDetails

Details about the source of the anomalous operational data that triggered the anomaly.

## Contents

### CloudWatchMetrics

An array of `CloudWatchMetricsDetail` objects that contain information about analyzed CloudWatch metrics that show anomalous behavior.

Type: Array of [CloudWatchMetricsDetail](#) objects

Required: No

### PerformanceInsightsMetrics

An array of `PerformanceInsightsMetricsDetail` objects that contain information about analyzed Performance Insights metrics that show anomalous behavior.

Type: Array of [PerformanceInsightsMetricsDetail](#) 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](#)

# AnomalySourceMetadata

Metadata about the detection source that generates proactive anomalies. The anomaly is detected using analysis of the metric data over a period of time

## Contents

### Source

The source of the anomaly.

Type: String

Required: No

### SourceResourceName

The name of the anomaly's resource.

Type: String

Required: No

### SourceResourceType

The anomaly's resource type.

Type: String

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

Pattern: `^[a-zA-Z]+[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](#)

# AnomalyTimeRange

A time range that specifies when the observed unusual behavior in an anomaly started and ended. This is different from `AnomalyReportedTimeRange`, which specifies the time range when DevOps Guru opens and then closes an anomaly.

## Contents

### StartTime

The time when the anomalous behavior started.

Type: Timestamp

Required: Yes

### EndTime

The time when the anomalous behavior ended.

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](#)

# CloudFormationCollection

Information about AWS CloudFormation stacks. You can use up to 1000 stacks to specify which AWS resources in your account to analyze. For more information, see [Stacks](#) in the *AWS CloudFormation User Guide*.

## Contents

### StackNames

An array of CloudFormation stack names.

Type: Array of strings

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

Pattern: `^[a-zA-Z*]+[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](#)

# CloudFormationCollectionFilter

Information about AWS CloudFormation stacks. You can use up to 1000 stacks to specify which AWS resources in your account to analyze. For more information, see [Stacks](#) in the *AWS CloudFormation User Guide*.

## Contents

### StackNames

An array of CloudFormation stack names.

Type: Array of strings

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

Pattern: `^[a-zA-Z*]+[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](#)

# CloudFormationCostEstimationResourceCollectionFilter

Information about an AWS CloudFormation stack used to create a monthly cost estimate for DevOps Guru to analyze AWS resources. The maximum number of stacks you can specify for a cost estimate is one. The estimate created is for the cost to analyze the AWS resources defined by the stack. For more information, see [Stacks](#) in the *AWS CloudFormation User Guide*.

## Contents

### StackNames

An array of CloudFormation stack names. Its size is fixed at 1 item.

Type: Array of strings

Array Members: Fixed number of 1 item.

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

Pattern: `^[a-zA-Z*]+[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](#)

# CloudFormationHealth

Information about the health of AWS resources in your account that are specified by an AWS CloudFormation stack.

## Contents

### AnalyzedResourceCount

Number of resources that DevOps Guru is monitoring in your account that are specified by an AWS CloudFormation stack.

Type: Long

Required: No

### Insight

Information about the health of the AWS resources in your account that are specified by an AWS CloudFormation stack, including the number of open proactive, open reactive insights, and the Mean Time to Recover (MTTR) of closed insights.

Type: [InsightHealth](#) object

Required: No

### StackName

The name of the CloudFormation stack.

Type: String

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

Pattern: `^[a-zA-Z*]+[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](#)

# CloudWatchMetricsDataSummary

Contains information about the analyzed metrics that displayed anomalous behavior.

## Contents

### StatusCode

This is an enum of the status showing whether the metric value pair list has partial or complete data, or if there was an error.

Type: String

Valid Values: Complete | InternalError | PartialData

Required: No

### TimestampMetricValuePairList

This is a list of Amazon CloudWatch metric values at given timestamp.

Type: Array of [TimestampMetricValuePair](#) 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](#)

# CloudWatchMetricsDetail

Information about an Amazon CloudWatch metric.

## Contents

### Dimensions

An array of CloudWatch dimensions associated with

Type: Array of [CloudWatchMetricsDimension](#) objects

Required: No

### MetricDataSummary

This object returns anomaly metric data.

Type: [CloudWatchMetricsDataSummary](#) object

Required: No

### MetricName

The name of the CloudWatch metric.

Type: String

Required: No

### Namespace

The namespace of the CloudWatch metric. A namespace is a container for CloudWatch metrics.

Type: String

Required: No

### Period

The length of time associated with the CloudWatch metric in number of seconds.

Type: Integer

Required: No

## Stat

The type of statistic associated with the CloudWatch metric. For more information, see [Statistics](#) in the *Amazon CloudWatch User Guide*.

Type: String

Valid Values: Sum | Average | SampleCount | Minimum | Maximum | p99 | p90 | p50

Required: No

## Unit

The unit of measure used for the CloudWatch metric. For example, Bytes, Seconds, Count, and Percent.

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](#)

# CloudWatchMetricsDimension

The dimension of an Amazon CloudWatch metric that is used when DevOps Guru analyzes the resources in your account for operational problems and anomalous behavior. A dimension is a name/value pair that is part of the identity of a metric. A metric can have up to 10 dimensions. For more information, see [Dimensions](#) in the *Amazon CloudWatch User Guide*.

## Contents

### Name

The name of the CloudWatch dimension.

Type: String

Required: No

### Value

The value of the CloudWatch dimension.

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](#)

# CostEstimationResourceCollectionFilter

Information about a filter used to specify which AWS resources are analyzed to create a monthly DevOps Guru cost estimate. For more information, see [Estimate your Amazon DevOps Guru costs](#) and [Amazon DevOps Guru pricing](#).

## Contents

### CloudFormation

An object that specifies the CloudFormation stack that defines the AWS resources used to create a monthly estimate for DevOps Guru.

Type: [CloudFormationCostEstimationResourceCollectionFilter](#) object

Required: No

### Tags

The AWS tags used to filter the resource collection that is used for a cost estimate.

Tags help you identify and organize your AWS resources. Many AWS services support tagging, so you can assign the same tag to resources from different services to indicate that the resources are related. For example, you can assign the same tag to an Amazon DynamoDB table resource that you assign to an AWS Lambda function. For more information about using tags, see the [Tagging best practices](#) whitepaper.

Each AWS tag has two parts.

- A tag *key* (for example, CostCenter, Environment, Project, or Secret). Tag *keys* are case-sensitive.
- An optional field known as a tag *value* (for example, 111122223333, Production, or a team name). Omitting the tag *value* is the same as using an empty string. Like tag *keys*, tag *values* are case-sensitive.

Together these are known as *key-value* pairs.

#### Important

When you create a *key*, the case of characters in the *key* can be whatever you choose. After you create a *key*, it is case-sensitive. For example, DevOps Guru works with a *key*

named `devops-guru-rds` and a *key* named `DevOps-Guru-RDS`, and these act as two different *keys*. Possible *key/value* pairs in your application might be `Devops-Guru-production-application/RDS` or `Devops-Guru-production-application/containers`.

Type: Array of [TagCostEstimationResourceCollectionFilter](#) 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](#)

# CostEstimationTimeRange

The time range of a cost estimation.

## Contents

### EndTime

The end time of the cost estimation.

Type: Timestamp

Required: No

### StartTime

The start time of the cost estimation.

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](#)

# EndTimeRange

A range of time that specifies when anomalous behavior in an anomaly or insight ended.

## Contents

### FromTime

The earliest end time in the time range.

Type: Timestamp

Required: No

### ToTime

The latest end time in the time range.

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](#)

# Event

An AWS resource event. AWS resource events and metrics are analyzed by DevOps Guru to find anomalous behavior and provide recommendations to improve your operational solutions.

## Contents

### DataSource

The source, `AWS_CLOUD_TRAIL` or `AWS_CODE_DEPLOY`, where DevOps Guru analysis found the event.

Type: String

Valid Values: `AWS_CLOUD_TRAIL` | `AWS_CODE_DEPLOY`

Required: No

### EventClass

The class of the event. The class specifies what the event is related to, such as an infrastructure change, a deployment, or a schema change.

Type: String

Valid Values: `INFRASTRUCTURE` | `DEPLOYMENT` | `SECURITY_CHANGE` | `CONFIG_CHANGE` | `SCHEMA_CHANGE`

Required: No

### EventSource

The AWS source that emitted the event.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 50.

Pattern: `^[a-z]+[a-z0-9]*\.amazonaws\.com|aws\.events$`

Required: No

**Id**

The ID of the event.

Type: String

Required: No

**Name**

The name of the event.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 50.

Required: No

**ResourceCollection**

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

**Resources**

An `EventResource` object that contains information about the resource that emitted the event.

Type: Array of [EventResource](#) objects

Required: No

**Time**

A `Timestamp` that specifies the time the event occurred.

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](#)

# EventResource

The AWS resource that emitted an event. AWS resource events and metrics are analyzed by DevOps Guru to find anomalous behavior and provide recommendations to improve your operational solutions.

## Contents

### Arn

The Amazon Resource Name (ARN) of the resource that emitted an event.

Type: String

Length Constraints: Minimum length of 36. Maximum length of 2048.

Pattern: `^arn:aws[-a-z]*:[a-z0-9-]*:[a-z0-9-]*:\d{12}:.*$`

Required: No

### Name

The name of the resource that emitted an event.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `^.*$`

Required: No

### Type

The type of resource that emitted an event.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `^.*$`

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](#)

# EventSourcesConfig

Information about the integration of DevOps Guru as consumer with another AWS service, such as AWS CodeGuru Profiler via EventBridge.

## Contents

### AmazonCodeGuruProfiler

Information about whether DevOps Guru is configured to consume recommendations which are generated from AWS CodeGuru Profiler.

Type: [AmazonCodeGuruProfilerIntegration](#) 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](#)

# EventTimeRange

The time range during which an AWS event occurred. AWS resource events and metrics are analyzed by DevOps Guru to find anomalous behavior and provide recommendations to improve your operational solutions.

## Contents

### FromTime

The time when the event started.

Type: Timestamp

Required: Yes

### ToTime

The time when the event ended.

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](#)

# InsightFeedback

Information about insight feedback received from a customer.

## Contents

### Feedback

The feedback provided by the customer.

Type: String

Valid Values: VALID\_COLLECTION | RECOMMENDATION\_USEFUL | ALERT\_TOO\_SENSITIVE  
| DATA\_NOISY\_ANOMALY | DATA\_INCORRECT

Required: No

### Id

The insight feedback ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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](#)

# InsightHealth

Information about the number of open reactive and proactive insights that can be used to gauge the health of your system.

## Contents

### MeanTimeToRecoverInMilliseconds

The Meant Time to Recover (MTTR) for the insight.

Type: Long

Required: No

### OpenProactiveInsights

The number of open proactive insights.

Type: Integer

Required: No

### OpenReactiveInsights

The number of open reactive insights.

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](#)

# InsightTimeRange

A time ranged that specifies when the observed behavior in an insight started and ended.

## Contents

### StartTime

The time when the behavior described in an insight started.

Type: Timestamp

Required: Yes

### EndTime

The time when the behavior described in an insight ended.

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](#)

# KMSServerSideEncryptionIntegration

Information about the KMS encryption used with DevOps Guru.

## Contents

### KMSKeyId

Describes the specified KMS key.

To specify a KMS key, use its key ID, key ARN, alias name, or alias ARN. When using an alias name, prefix it with "alias/". If you specify a predefined AWS alias (an AWS alias with no key ID), AWS KMS associates the alias with an AWS managed key and returns its KeyId and Arn in the response. To specify a KMS key in a different AWS account, you must use the key ARN or alias ARN.

For example:

Key ID: 1234abcd-12ab-34cd-56ef-1234567890ab

Key ARN: arn:aws:kms:us-east-2:111122223333:key/1234abcd-12ab-34cd-56ef-1234567890ab

Alias name: alias/ExampleAlias

Alias ARN: arn:aws:kms:us-east-2:111122223333:alias/ExampleAlias

Type: String

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

Pattern: ^.\*\$

Required: No

### OptInStatus

Specifies if DevOps Guru is enabled for customer managed keys.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

## Type

The type of KMS key used. Customer managed keys are the KMS keys that you create. AWS owned keys are keys that are owned and managed by DevOps Guru.

Type: String

Valid Values: CUSTOMER\_MANAGED\_KEY | AWS\_OWNED\_KMS\_KEY

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](#)

# KMSServerSideEncryptionIntegrationConfig

Information about whether DevOps Guru is configured to encrypt server-side data using KMS.

## Contents

### KMSKeyId

Describes the specified KMS key.

To specify a KMS key, use its key ID, key ARN, alias name, or alias ARN. When using an alias name, prefix it with "alias/". If you specify a predefined AWS alias (an AWS alias with no key ID), AWS KMS associates the alias with an AWS managed key and returns its KeyId and Arn in the response. To specify a KMS key in a different AWS account, you must use the key ARN or alias ARN.

For example:

Key ID: 1234abcd-12ab-34cd-56ef-1234567890ab

Key ARN: arn:aws:kms:us-east-2:111122223333:key/1234abcd-12ab-34cd-56ef-1234567890ab

Alias name: alias/ExampleAlias

Alias ARN: arn:aws:kms:us-east-2:111122223333:alias/ExampleAlias

Type: String

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

Pattern: ^.\*\$

Required: No

### OptInStatus

Specifies if DevOps Guru is enabled for KMS integration.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

## Type

The type of KMS key used. Customer managed keys are the KMS keys that you create. AWS owned keys are keys that are owned and managed by DevOps Guru.

Type: String

Valid Values: CUSTOMER\_MANAGED\_KEY | AWS\_OWNED\_KMS\_KEY

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](#)

# ListAnomaliesForInsightFilters

Specifies one or more service names that are used to list anomalies.

## Contents

### ServiceCollection

A collection of the names of AWS services.

Type: [ServiceCollection](#) 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](#)

# ListEventsFilters

Filters you can use to specify which events are returned when `ListEvents` is called.

## Contents

### DataSource

The source, `AWS_CLOUD_TRAIL` or `AWS_CODE_DEPLOY`, of the events you want returned.

Type: String

Valid Values: `AWS_CLOUD_TRAIL` | `AWS_CODE_DEPLOY`

Required: No

### EventClass

The class of the events you want to filter for, such as an infrastructure change, a deployment, or a schema change.

Type: String

Valid Values: `INFRASTRUCTURE` | `DEPLOYMENT` | `SECURITY_CHANGE` | `CONFIG_CHANGE`  
| `SCHEMA_CHANGE`

Required: No

### EventSource

The AWS source that emitted the events you want to filter for.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 50.

Pattern: `^[a-z]+[a-z0-9]*\.amazonaws\.com|aws\.events$`

Required: No

### EventTimeRange

A time range during which you want the filtered events to have occurred.

Type: [EventTimeRange](#) object

Required: No

## InsightId

An ID of an insight that is related to the events you want to filter for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: No

## ResourceCollection

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) 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](#)

# ListInsightsAnyStatusFilter

Used to filter for insights that have any status.

## Contents

### StartTimeRange

A time range used to specify when the behavior of the filtered insights started.

Type: [StartTimeRange](#) object

Required: Yes

### Type

Use to filter for either REACTIVE or PROACTIVE insights.

Type: String

Valid Values: REACTIVE | PROACTIVE

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](#)

# ListInsightsClosedStatusFilter

Used to filter for insights that have the status CLOSED.

## Contents

### EndTimeRange

A time range used to specify when the behavior of the filtered insights ended.

Type: [EndTimeRange](#) object

Required: Yes

### Type

Use to filter for either REACTIVE or PROACTIVE insights.

Type: String

Valid Values: REACTIVE | PROACTIVE

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](#)

# ListInsightsOngoingStatusFilter

Used to filter for insights that have the status ONGOING.

## Contents

### Type

Use to filter for either REACTIVE or PROACTIVE insights.

Type: String

Valid Values: REACTIVE | PROACTIVE

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](#)

# ListInsightsStatusFilter

A filter used by ListInsights to specify which insights to return.

## Contents

### Any

A ListInsightsAnyStatusFilter that specifies insights of any status that are either REACTIVE or PROACTIVE.

Type: [ListInsightsAnyStatusFilter](#) object

Required: No

### Closed

A ListInsightsClosedStatusFilter that specifies closed insights that are either REACTIVE or PROACTIVE.

Type: [ListInsightsClosedStatusFilter](#) object

Required: No

### Ongoing

A ListInsightsAnyStatusFilter that specifies ongoing insights that are either REACTIVE or PROACTIVE.

Type: [ListInsightsOngoingStatusFilter](#) 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](#)



# ListMonitoredResourcesFilters

Filters to determine which monitored resources you want to retrieve. You can filter by resource type or resource permission status.

## Contents

### ResourcePermission

The permission status of a resource.

Type: String

Valid Values: FULL\_PERMISSION | MISSING\_PERMISSION

Required: Yes

### ResourceTypeFilters

The type of resource that you wish to retrieve, such as log groups.

Type: Array of strings

Valid Values: LOG\_GROUPS | CLOUDFRONT\_DISTRIBUTION | DYNAMODB\_TABLE  
| EC2\_NAT\_GATEWAY | ECS\_CLUSTER | ECS\_SERVICE | EKS\_CLUSTER |  
ELASTIC\_BEANSTALK\_ENVIRONMENT | ELASTIC\_LOAD\_BALANCER\_LOAD\_BALANCER |  
ELASTIC\_LOAD\_BALANCING\_V2\_LOAD\_BALANCER |  
ELASTIC\_LOAD\_BALANCING\_V2\_TARGET\_GROUP | ELASTICACHE\_CACHE\_CLUSTER  
| ELASTICSEARCH\_DOMAIN | KINESIS\_STREAM | LAMBDA\_FUNCTION |  
OPEN\_SEARCH\_SERVICE\_DOMAIN | RDS\_DB\_INSTANCE | RDS\_DB\_CLUSTER  
| REDSHIFT\_CLUSTER | ROUTE53\_HOSTED\_ZONE | ROUTE53\_HEALTH\_CHECK  
| S3\_BUCKET | SAGEMAKER\_ENDPOINT | SNS\_TOPIC | SQS\_QUEUE |  
STEP\_FUNCTIONS\_ACTIVITY | STEP\_FUNCTIONS\_STATE\_MACHINE

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](#)

# LogAnomalyClass

Information about an anomalous log event found within a log group.

## Contents

### Explanation

The explanation for why the log event is considered an anomaly.

Type: String

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

Required: No

### LogAnomalyToken

The token where the anomaly was detected. This may refer to an exception or another location, or it may be blank for log anomalies such as format anomalies.

Type: String

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

Required: No

### LogAnomalyType

The type of log anomaly that has been detected.

Type: String

Valid Values: KEYWORD | KEYWORD\_TOKEN | FORMAT | HTTP\_CODE | BLOCK\_FORMAT | NUMERICAL\_POINT | NUMERICAL\_NAN | NEW\_FIELD\_NAME

Required: No

### LogEventId

The ID of the log event.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

### **LogEventTimestamp**

The time of the first occurrence of the anomalous log event.

Type: Timestamp

Required: No

### **LogStreamName**

The name of the Amazon CloudWatch log stream that the anomalous log event belongs to. A log stream is a sequence of log events that share the same source.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

### **NumberOfLogLinesOccurrences**

The number of log lines where this anomalous log event occurs.

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](#)

# LogAnomalyShowcase

A cluster of similar anomalous log events found within a log group.

## Contents

### LogAnomalyClasses

A list of anomalous log events that may be related.

Type: Array of [LogAnomalyClass](#) objects

Array Members: Minimum number of 0 items. Maximum number of 10 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](#)

# LogsAnomalyDetectionIntegration

Information about the integration of DevOps Guru with CloudWatch log groups for log anomaly detection.

## Contents

### OptInStatus

Specifies if DevOps Guru is configured to perform log anomaly detection on CloudWatch log groups.

Type: String

Valid Values: ENABLED | 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](#)

# LogsAnomalyDetectionIntegrationConfig

Information about the integration of DevOps Guru with CloudWatch log groups for log anomaly detection. You can use this to update the configuration.

## Contents

### OptInStatus

Specifies if DevOps Guru is configured to perform log anomaly detection on CloudWatch log groups.

Type: String

Valid Values: ENABLED | 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](#)

# MonitoredResourceIdentifier

Information about the resource that is being monitored, including the name of the resource, the type of resource, and whether or not permission is given to DevOps Guru to access that resource.

## Contents

### LastUpdated

The time at which DevOps Guru last updated this resource.

Type: Timestamp

Required: No

### MonitoredResourceName

The name of the resource being monitored.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `[\.\-_\#A-Za-z0-9]+`

Required: No

### ResourceCollection

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag key. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

### ResourcePermission

The permission status of a resource.

Type: String

Valid Values: FULL\_PERMISSION | MISSING\_PERMISSION

Required: No

## Type

The type of resource being monitored.

Type: String

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

Pattern: `^[a-zA-Z]+[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](#)

# NotificationChannel

Information about a notification channel. A notification channel is used to notify you when DevOps Guru creates an insight. The one supported notification channel is Amazon Simple Notification Service (Amazon SNS).

If you use an Amazon SNS topic in another account, you must attach a policy to it that grants DevOps Guru permission to send it notifications. DevOps Guru adds the required policy on your behalf to send notifications using Amazon SNS in your account. DevOps Guru only supports standard SNS topics. For more information, see [Permissions for Amazon SNS topics](#).

If you use an Amazon SNS topic that is encrypted by an AWS Key Management Service customer-managed key (CMK), then you must add permissions to the CMK. For more information, see [Permissions for AWS KMS-encrypted Amazon SNS topics](#).

## Contents

### Config

A `NotificationChannelConfig` object that contains information about configured notification channels.

Type: [NotificationChannelConfig](#) object

Required: No

### Id

The ID of a notification channel.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `^[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}$`

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](#)

# NotificationChannelConfig

Information about notification channels you have configured with DevOps Guru. The one supported notification channel is Amazon Simple Notification Service (Amazon SNS).

## Contents

### Sns

Information about a notification channel configured in DevOps Guru to send notifications when insights are created.

If you use an Amazon SNS topic in another account, you must attach a policy to it that grants DevOps Guru permission to send it notifications. DevOps Guru adds the required policy on your behalf to send notifications using Amazon SNS in your account. DevOps Guru only supports standard SNS topics. For more information, see [Permissions for Amazon SNS topics](#).

If you use an Amazon SNS topic that is encrypted by an AWS Key Management Service customer-managed key (CMK), then you must add permissions to the CMK. For more information, see [Permissions for AWS KMS–encrypted Amazon SNS topics](#).

Type: [SnsChannelConfig](#) object

Required: Yes

### Filters

The filter configurations for the Amazon SNS notification topic you use with DevOps Guru. If you do not provide filter configurations, the default configurations are to receive notifications for all message types of High or Medium severity.

Type: [NotificationFilterConfig](#) 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](#)

# NotificationFilterConfig

The filter configurations for the Amazon SNS notification topic you use with DevOps Guru. You can choose to specify which events or message types to receive notifications for. You can also choose to specify which severity levels to receive notifications for.

## Contents

### MessageTypes

The events that you want to receive notifications for. For example, you can choose to receive notifications only when the severity level is upgraded or a new insight is created.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Valid Values: NEW\_INSIGHT | CLOSED\_INSIGHT | NEW\_ASSOCIATION | SEVERITY\_UPGRADED | NEW\_RECOMMENDATION

Required: No

### Severities

The severity levels that you want to receive notifications for. For example, you can choose to receive notifications only for insights with HIGH and MEDIUM severity levels. For more information, see [Understanding insight severities](#).

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 3 items.

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](#)

# OpsCenterIntegration

Information about whether DevOps Guru is configured to create an OpsItem in AWS Systems Manager OpsCenter for each created insight.

## Contents

### OptInStatus

Specifies if DevOps Guru is enabled to create an AWS Systems Manager OpsItem for each created insight.

Type: String

Valid Values: ENABLED | 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](#)

# OpsCenterIntegrationConfig

Information about whether DevOps Guru is configured to create an OpsItem in AWS Systems Manager OpsCenter for each created insight. You can use this to update the configuration.

## Contents

### OptInStatus

Specifies if DevOps Guru is enabled to create an AWS Systems Manager OpsItem for each created insight.

Type: String

Valid Values: ENABLED | 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](#)

# PerformanceInsightsMetricDimensionGroup

A logical grouping of Performance Insights metrics for a related subject area. For example, the `db.sql` dimension group consists of the following dimensions: `db.sql.id`, `db.sql.db_id`, `db.sql.statement`, and `db.sql.tokenized_id`.

## Note

Each response element returns a maximum of 500 bytes. For larger elements, such as SQL statements, only the first 500 bytes are returned.

Amazon RDS Performance Insights enables you to monitor and explore different dimensions of database load based on data captured from a running DB instance. DB load is measured as average active sessions. Performance Insights provides the data to API consumers as a two-dimensional time-series dataset. The time dimension provides DB load data for each time point in the queried time range. Each time point decomposes overall load in relation to the requested dimensions, measured at that time point. Examples include SQL, Wait event, User, and Host.

- To learn more about Performance Insights and Amazon Aurora DB instances, go to the [Amazon Aurora User Guide](#).
- To learn more about Performance Insights and Amazon RDS DB instances, go to the [Amazon RDS User Guide](#).

## Contents

### Dimensions

A list of specific dimensions from a dimension group. If this parameter is not present, then it signifies that all of the dimensions in the group were requested or are present in the response.

Valid values for elements in the `Dimensions` array are:

- `db.application.name` - The name of the application that is connected to the database (only Aurora PostgreSQL and RDS PostgreSQL)
- `db.host.id` - The host ID of the connected client (all engines)
- `db.host.name` - The host name of the connected client (all engines)

- `db.name` - The name of the database to which the client is connected (only Aurora PostgreSQL, Amazon RDS PostgreSQL, Aurora MySQL, Amazon RDS MySQL, and MariaDB)
- `db.session_type.name` - The type of the current session (only Aurora PostgreSQL and RDS PostgreSQL)
- `db.sql.id` - The SQL ID generated by Performance Insights (all engines)
- `db.sql.db_id` - The SQL ID generated by the database (all engines)
- `db.sql.statement` - The SQL text that is being executed (all engines)
- `db.sql.tokenized_id`
- `db.sql_tokenized.id` - The SQL digest ID generated by Performance Insights (all engines)
- `db.sql_tokenized.db_id` - SQL digest ID generated by the database (all engines)
- `db.sql_tokenized.statement` - The SQL digest text (all engines)
- `db.user.id` - The ID of the user logged in to the database (all engines)
- `db.user.name` - The name of the user logged in to the database (all engines)
- `db.wait_event.name` - The event for which the backend is waiting (all engines)
- `db.wait_event.type` - The type of event for which the backend is waiting (all engines)
- `db.wait_event_type.name` - The name of the event type for which the backend is waiting (all engines)

Type: Array of strings

Required: No

## Group

The name of the dimension group. Its valid values are:

- `db` - The name of the database to which the client is connected (only Aurora PostgreSQL, Amazon RDS PostgreSQL, Aurora MySQL, Amazon RDS MySQL, and MariaDB)
- `db.application` - The name of the application that is connected to the database (only Aurora PostgreSQL and RDS PostgreSQL)
- `db.host` - The host name of the connected client (all engines)
- `db.session_type` - The type of the current session (only Aurora PostgreSQL and RDS PostgreSQL)
- `db.sql` - The SQL that is currently executing (all engines)
- `db.sql_tokenized` - The SQL digest (all engines)

- `db.wait_event` - The event for which the database backend is waiting (all engines)
- `db.wait_event_type` - The type of event for which the database backend is waiting (all engines)
- `db.user` - The user logged in to the database (all engines)

Type: String

Required: No

## Limit

The maximum number of items to fetch for this dimension group.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

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](#)

# PerformanceInsightsMetricQuery

A single query to be processed. Use these parameters to query the Performance Insights GetResourceMetrics API to retrieve the metrics for an anomaly. For more information, see [GetResourceMetrics](#) in the *Amazon RDS Performance Insights API Reference*.

Amazon RDS Performance Insights enables you to monitor and explore different dimensions of database load based on data captured from a running DB instance. DB load is measured as average active sessions. Performance Insights provides the data to API consumers as a two-dimensional time-series dataset. The time dimension provides DB load data for each time point in the queried time range. Each time point decomposes overall load in relation to the requested dimensions, measured at that time point. Examples include SQL, Wait event, User, and Host.

- To learn more about Performance Insights and Amazon Aurora DB instances, go to the [Amazon Aurora User Guide](#).
- To learn more about Performance Insights and Amazon RDS DB instances, go to the [Amazon RDS User Guide](#).

## Contents

### Filter

One or more filters to apply to a Performance Insights GetResourceMetrics API query. Restrictions:

- Any number of filters by the same dimension, as specified in the GroupBy parameter.
- A single filter for any other dimension in this dimension group.

Type: String to string map

Required: No

### GroupBy

The specification for how to aggregate the data points from a Performance Insights GetResourceMetrics API query. The Performance Insights query returns all of the dimensions within that group, unless you provide the names of specific dimensions within that group. You can also request that Performance Insights return a limited number of values for a dimension.

Type: [PerformanceInsightsMetricDimensionGroup](#) object

Required: No

## Metric

The name of the metric used when querying an Performance Insights `GetResourceMetrics` API for anomaly metrics.

Valid values for `Metric` are:

- `db.load.avg` - a scaled representation of the number of active sessions for the database engine.
- `db.sampledload.avg` - the raw number of active sessions for the database engine.

If the number of active sessions is less than an internal Performance Insights threshold, `db.load.avg` and `db.sampledload.avg` are the same value. If the number of active sessions is greater than the internal threshold, Performance Insights samples the active sessions, with `db.load.avg` showing the scaled values, `db.sampledload.avg` showing the raw values, and `db.sampledload.avg` less than `db.load.avg`. For most use cases, you can query `db.load.avg` only.

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](#)

# PerformanceInsightsMetricsDetail

Details about Performance Insights metrics.

Amazon RDS Performance Insights enables you to monitor and explore different dimensions of database load based on data captured from a running DB instance. DB load is measured as average active sessions. Performance Insights provides the data to API consumers as a two-dimensional time-series dataset. The time dimension provides DB load data for each time point in the queried time range. Each time point decomposes overall load in relation to the requested dimensions, measured at that time point. Examples include SQL, Wait event, User, and Host.

- To learn more about Performance Insights and Amazon Aurora DB instances, go to the [Amazon Aurora User Guide](#).
- To learn more about Performance Insights and Amazon RDS DB instances, go to the [Amazon RDS User Guide](#).

## Contents

### MetricDisplayName

The name used for a specific Performance Insights metric.

Type: String

Required: No

### MetricQuery

A single query to be processed for the metric. For more information, see [PerformanceInsightsMetricQuery](#) .

Type: [PerformanceInsightsMetricQuery](#) object

Required: No

### ReferenceData

For more information, see [PerformanceInsightsReferenceData](#) .

Type: Array of [PerformanceInsightsReferenceData](#) objects

Required: No

## StatsAtAnomaly

The metric statistics during the anomalous period detected by DevOps Guru;

Type: Array of [PerformanceInsightsStat](#) objects

Required: No

## StatsAtBaseline

Typical metric statistics that are not considered anomalous. When DevOps Guru analyzes metrics, it compares them to StatsAtBaseline to help determine if they are anomalous.

Type: Array of [PerformanceInsightsStat](#) objects

Required: No

## Unit

The unit of measure for a metric. For example, a session or a process.

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](#)

# PerformanceInsightsReferenceComparisonValues

Reference scalar values and other metrics that DevOps Guru displays on a graph in its console along with the actual metrics it analyzed. Compare these reference values to your actual metrics to help you understand anomalous behavior that DevOps Guru detected.

## Contents

### ReferenceMetric

A metric that DevOps Guru compares to actual metric values. This reference metric is used to determine if an actual metric should be considered anomalous.

Type: [PerformanceInsightsReferenceMetric](#) object

Required: No

### ReferenceScalar

A scalar value DevOps Guru for a metric that DevOps Guru compares to actual metric values. This reference value is used to determine if an actual metric value should be considered anomalous.

Type: [PerformanceInsightsReferenceScalar](#) 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](#)

# PerformanceInsightsReferenceData

Reference data used to evaluate Performance Insights to determine if its performance is anomalous or not.

## Contents

### ComparisonValues

The specific reference values used to evaluate the Performance Insights. For more information, see [PerformanceInsightsReferenceComparisonValues](#) .

Type: [PerformanceInsightsReferenceComparisonValues](#) object

Required: No

### Name

The name of the reference data.

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](#)

# PerformanceInsightsReferenceMetric

Information about a reference metric used to evaluate Performance Insights.

## Contents

### MetricQuery

A query to be processed on the metric.

Type: [PerformanceInsightsMetricQuery](#) 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](#)

# PerformanceInsightsReferenceScalar

A reference value to compare Performance Insights metrics against to determine if the metrics demonstrate anomalous behavior.

## Contents

### Value

The reference value.

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](#)

# PerformanceInsightsStat

A statistic in a Performance Insights collection.

## Contents

### Type

The statistic type.

Type: String

Required: No

### Value

The value of the statistic.

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](#)

# PredictionTimeRange

The time range during which anomalous behavior in a proactive anomaly or an insight is expected to occur.

## Contents

### StartTime

The time range during which a metric limit is expected to be exceeded. This applies to proactive insights only.

Type: Timestamp

Required: Yes

### EndTime

The time when the behavior in a proactive insight is expected to end.

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](#)

# ProactiveAnomaly

Information about an anomaly. This object is returned by `ListAnomalies`.

## Contents

### AnomalyReportedTimeRange

An `AnomalyReportedTimeRange` object that specifies the time range between when the anomaly is opened and the time when it is closed.

Type: [AnomalyReportedTimeRange](#) object

Required: No

### AnomalyResources

Information about a resource in which DevOps Guru detected anomalous behavior.

Type: Array of [AnomalyResource](#) objects

Required: No

### AnomalyTimeRange

A time range that specifies when the observed unusual behavior in an anomaly started and ended. This is different from `AnomalyReportedTimeRange`, which specifies the time range when DevOps Guru opens and then closes an anomaly.

Type: [AnomalyTimeRange](#) object

Required: No

### AssociatedInsightId

The ID of the insight that contains this anomaly. An insight is composed of related anomalies.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: No

## Description

A description of the proactive anomaly.

Type: String

Required: No

## Id

The ID of a proactive anomaly.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w~.-]*$`

Required: No

## Limit

A threshold that was exceeded by behavior in analyzed resources. Exceeding this threshold is related to the anomalous behavior that generated this anomaly.

Type: Double

Required: No

## PredictionTimeRange

The time range during which anomalous behavior in a proactive anomaly or an insight is expected to occur.

Type: [PredictionTimeRange](#) object

Required: No

## ResourceCollection

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

### Severity

The severity of the anomaly. The severity of anomalies that generate an insight determine that insight's severity. For more information, see [Understanding insight severities](#) in the *Amazon DevOps Guru User Guide*.

Type: String

Valid Values: LOW | MEDIUM | HIGH

Required: No

### SourceDetails

Details about the source of the analyzed operational data that triggered the anomaly. The one supported source is Amazon CloudWatch metrics.

Type: [AnomalySourceDetails](#) object

Required: No

### SourceMetadata

The metadata for the anomaly.

Type: [AnomalySourceMetadata](#) object

Required: No

### Status

The status of a proactive anomaly.

Type: String

Valid Values: ONGOING | CLOSED

Required: No

### UpdateTime

The time of the anomaly's most recent update.

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](#)

# ProactiveAnomalySummary

Details about a proactive anomaly. This object is returned by `DescribeAnomaly`.

## Contents

### AnomalyReportedTimeRange

An `AnomalyReportedTimeRange` object that specifies the time range between when the anomaly is opened and the time when it is closed.

Type: [AnomalyReportedTimeRange](#) object

Required: No

### AnomalyResources

Information about a resource in which DevOps Guru detected anomalous behavior.

Type: Array of [AnomalyResource](#) objects

Required: No

### AnomalyTimeRange

A time range that specifies when the observed unusual behavior in an anomaly started and ended. This is different from `AnomalyReportedTimeRange`, which specifies the time range when DevOps Guru opens and then closes an anomaly.

Type: [AnomalyTimeRange](#) object

Required: No

### AssociatedInsightId

The ID of the insight that contains this anomaly. An insight is composed of related anomalies.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: No

## Description

A description of the proactive anomaly.

Type: String

Required: No

## Id

The ID of the anomaly.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w\\. -]*$`

Required: No

## Limit

A threshold that was exceeded by behavior in analyzed resources. Exceeding this threshold is related to the anomalous behavior that generated this anomaly.

Type: Double

Required: No

## PredictionTimeRange

The time range during which anomalous behavior in a proactive anomaly or an insight is expected to occur.

Type: [PredictionTimeRange](#) object

Required: No

## ResourceCollection

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

### Severity

The severity of the anomaly. The severity of anomalies that generate an insight determine that insight's severity. For more information, see [Understanding insight severities](#) in the *Amazon DevOps Guru User Guide*.

Type: String

Valid Values: LOW | MEDIUM | HIGH

Required: No

### SourceDetails

Details about the source of the analyzed operational data that triggered the anomaly. The one supported source is Amazon CloudWatch metrics.

Type: [AnomalySourceDetails](#) object

Required: No

### SourceMetadata

The metadata of the source which detects proactive anomalies.

Type: [AnomalySourceMetadata](#) object

Required: No

### Status

The status of the anomaly.

Type: String

Valid Values: ONGOING | CLOSED

Required: No

### UpdateTime

The time of the anomaly's most recent update.

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](#)

# ProactiveInsight

Details about a proactive insight. This object is returned by `ListInsights`.

## Contents

### Description

Describes the proactive insight.

Type: String

Required: No

### Id

The ID of the proactive insight.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: No

### InsightTimeRange

A time ranged that specifies when the observed behavior in an insight started and ended.

Type: [InsightTimeRange](#) object

Required: No

### Name

The name of the proactive insight.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 530.

Pattern: `^[\\s\\S]*$`

Required: No

## PredictionTimeRange

The time range during which anomalous behavior in a proactive anomaly or an insight is expected to occur.

Type: [PredictionTimeRange](#) object

Required: No

## ResourceCollection

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

## Severity

The severity of the insight. For more information, see [Understanding insight severities](#) in the *Amazon DevOps Guru User Guide*.

Type: String

Valid Values: LOW | MEDIUM | HIGH

Required: No

## SsmOpsItemId

The ID of the AWS Systems Manager OpsItem created for this insight. You must enable the creation of OpsItems insights before they are created for each insight.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^\.*$`

Required: No

## Status

The status of the proactive insight.

Type: String

Valid Values: ONGOING | CLOSED

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](#)

# ProactiveInsightSummary

Details about a proactive insight. This object is returned by `DescribeInsight`.

## Contents

### AssociatedResourceArns

The Amazon Resource Names (ARNs) of the AWS resources that generated this insight.

Type: Array of strings

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

Required: No

### Id

The ID of the proactive insight.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: No

### InsightTimeRange

A time ranged that specifies when the observed behavior in an insight started and ended.

Type: [InsightTimeRange](#) object

Required: No

### Name

The name of the proactive insight.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 530.

Pattern: `^[\\s\\S]*$`

Required: No

### **PredictionTimeRange**

The time range during which anomalous behavior in a proactive anomaly or an insight is expected to occur.

Type: [PredictionTimeRange](#) object

Required: No

### **ResourceCollection**

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

### **ServiceCollection**

A collection of the names of AWS services.

Type: [ServiceCollection](#) object

Required: No

### **Severity**

The severity of the insight. For more information, see [Understanding insight severities](#) in the *Amazon DevOps Guru User Guide*.

Type: String

Valid Values: LOW | MEDIUM | HIGH

Required: No

### **Status**

The status of the proactive insight.

Type: String

Valid Values: ONGOING | CLOSED

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](#)

# ProactiveOrganizationInsightSummary

Details about a proactive insight. This object is returned by `DescribeInsight`.

## Contents

### AccountId

The ID of the AWS account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### Id

The ID of the insight summary.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: No

### InsightTimeRange

A time ranged that specifies when the observed behavior in an insight started and ended.

Type: [InsightTimeRange](#) object

Required: No

### Name

The name of the insight summary.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 530.

Pattern: `^\[s\S]*$`

Required: No

### **OrganizationalUnitId**

The ID of the organizational unit.

Type: String

Length Constraints: Maximum length of 68.

Pattern: `^ou-[0-9a-z]{4,32}-[a-z0-9]{8,32}$`

Required: No

### **PredictionTimeRange**

The time range during which anomalous behavior in a proactive anomaly or an insight is expected to occur.

Type: [PredictionTimeRange](#) object

Required: No

### **ResourceCollection**

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

### **ServiceCollection**

A collection of the names of AWS services.

Type: [ServiceCollection](#) object

Required: No

## Severity

An array of severity values used to search for insights. For more information, see [Understanding insight severities](#) in the *Amazon DevOps Guru User Guide*.

Type: String

Valid Values: LOW | MEDIUM | HIGH

Required: No

## Status

An array of status values used to search for insights.

Type: String

Valid Values: ONGOING | CLOSED

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](#)

# ReactiveAnomaly

Details about a reactive anomaly. This object is returned by `ListAnomalies`.

## Contents

### AnomalyReportedTimeRange

An `AnomalyReportedTimeRange` object that specifies the time range between when the anomaly is opened and the time when it is closed.

Type: [AnomalyReportedTimeRange](#) object

Required: No

### AnomalyResources

The AWS resources in which anomalous behavior was detected by DevOps Guru.

Type: Array of [AnomalyResource](#) objects

Required: No

### AnomalyTimeRange

A time range that specifies when the observed unusual behavior in an anomaly started and ended. This is different from `AnomalyReportedTimeRange`, which specifies the time range when DevOps Guru opens and then closes an anomaly.

Type: [AnomalyTimeRange](#) object

Required: No

### AssociatedInsightId

The ID of the insight that contains this anomaly. An insight is composed of related anomalies.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: No

## CausalAnomalyId

The ID of the causal anomaly that is associated with this reactive anomaly. The ID of a `CAUSAL` anomaly is always `NULL`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w~.-]*$`

Required: No

## Description

A description of the reactive anomaly.

Type: String

Required: No

## Id

The ID of the reactive anomaly.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w~.-]*$`

Required: No

## Name

The name of the reactive anomaly.

Type: String

Required: No

## ResourceCollection

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined

in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

## Severity

The severity of the anomaly. The severity of anomalies that generate an insight determine that insight's severity. For more information, see [Understanding insight severities](#) in the *Amazon DevOps Guru User Guide*.

Type: String

Valid Values: LOW | MEDIUM | HIGH

Required: No

## SourceDetails

Details about the source of the analyzed operational data that triggered the anomaly. The one supported source is Amazon CloudWatch metrics.

Type: [AnomalySourceDetails](#) object

Required: No

## Status

The status of the anomaly.

Type: String

Valid Values: ONGOING | CLOSED

Required: No

## Type

The type of the reactive anomaly. It can be one of the following types.

- CAUSAL - the anomaly can cause a new insight.
- CONTEXTUAL - the anomaly contains additional information about an insight or its causal anomaly.

Type: String

Valid Values: CAUSAL | CONTEXTUAL

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](#)

# ReactiveAnomalySummary

Details about a reactive anomaly. This object is returned by `DescribeAnomaly`.

## Contents

### AnomalyReportedTimeRange

An `AnomalyReportedTimeRange` object that specifies the time range between when the anomaly is opened and the time when it is closed.

Type: [AnomalyReportedTimeRange](#) object

Required: No

### AnomalyResources

The AWS resources in which anomalous behavior was detected by DevOps Guru.

Type: Array of [AnomalyResource](#) objects

Required: No

### AnomalyTimeRange

A time range that specifies when the observed unusual behavior in an anomaly started and ended. This is different from `AnomalyReportedTimeRange`, which specifies the time range when DevOps Guru opens and then closes an anomaly.

Type: [AnomalyTimeRange](#) object

Required: No

### AssociatedInsightId

The ID of the insight that contains this anomaly. An insight is composed of related anomalies.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: No

## CausalAnomalyId

The ID of the causal anomaly that is associated with this reactive anomaly. The ID of a `CAUSAL` anomaly is always `NULL`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w~.-]*$`

Required: No

## Description

A description of the reactive anomaly.

Type: String

Required: No

## Id

The ID of the reactive anomaly.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w~.-]*$`

Required: No

## Name

The name of the reactive anomaly.

Type: String

Required: No

## ResourceCollection

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined

in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

## Severity

The severity of the anomaly. The severity of anomalies that generate an insight determine that insight's severity. For more information, see [Understanding insight severities](#) in the *Amazon DevOps Guru User Guide*.

Type: String

Valid Values: LOW | MEDIUM | HIGH

Required: No

## SourceDetails

Details about the source of the analyzed operational data that triggered the anomaly. The one supported source is Amazon CloudWatch metrics.

Type: [AnomalySourceDetails](#) object

Required: No

## Status

The status of the reactive anomaly.

Type: String

Valid Values: ONGOING | CLOSED

Required: No

## Type

The type of the reactive anomaly. It can be one of the following types.

- CAUSAL - the anomaly can cause a new insight.
- CONTEXTUAL - the anomaly contains additional information about an insight or its causal anomaly.

Type: String

Valid Values: CAUSAL | CONTEXTUAL

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](#)

# ReactiveInsight

Information about a reactive insight. This object is returned by `ListInsights`.

## Contents

### Description

Describes the reactive insight.

Type: String

Required: No

### Id

The ID of a reactive insight.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: No

### InsightTimeRange

A time ranged that specifies when the observed behavior in an insight started and ended.

Type: [InsightTimeRange](#) object

Required: No

### Name

The name of a reactive insight.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 530.

Pattern: `^[\\s\\S]*$`

Required: No

## ResourceCollection

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

## Severity

The severity of the insight. For more information, see [Understanding insight severities](#) in the *Amazon DevOps Guru User Guide*.

Type: String

Valid Values: LOW | MEDIUM | HIGH

Required: No

## SsmOpsItemId

The ID of the AWS Systems Manager OpsItem created for this insight. You must enable the creation of OpsItems insights before they are created for each insight.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: ^.\*\$

Required: No

## Status

The status of a reactive insight.

Type: String

Valid Values: ONGOING | CLOSED

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](#)

# ReactiveInsightSummary

Information about a reactive insight. This object is returned by `DescribeInsight`.

## Contents

### AssociatedResourceArns

The Amazon Resource Names (ARNs) of the AWS resources that generated this insight.

Type: Array of strings

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

Required: No

### Id

The ID of a reactive summary.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: No

### InsightTimeRange

A time ranged that specifies when the observed behavior in an insight started and ended.

Type: [InsightTimeRange](#) object

Required: No

### Name

The name of a reactive insight.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 530.

Pattern: `^\[s\S]*$`

Required: No

## ResourceCollection

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

## ServiceCollection

A collection of the names of AWS services.

Type: [ServiceCollection](#) object

Required: No

## Severity

The severity of the insight. For more information, see [Understanding insight severities](#) in the *Amazon DevOps Guru User Guide*.

Type: String

Valid Values: LOW | MEDIUM | HIGH

Required: No

## Status

The status of a reactive insight.

Type: String

Valid Values: ONGOING | CLOSED

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](#)

# ReactiveOrganizationInsightSummary

Information about a reactive insight. This object is returned by `DescribeInsight`.

## Contents

### AccountId

The ID of the AWS account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `^\d{12}$`

Required: No

### Id

The ID of the insight summary.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w-]*$`

Required: No

### InsightTimeRange

A time ranged that specifies when the observed behavior in an insight started and ended.

Type: [InsightTimeRange](#) object

Required: No

### Name

The name of the insight summary.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 530.

Pattern: `^[\\s\\S]*$`

Required: No

### **OrganizationalUnitId**

The ID of the organizational unit.

Type: String

Length Constraints: Maximum length of 68.

Pattern: `^ou-[0-9a-z]{4,32}-[a-z0-9]{8,32}$`

Required: No

### **ResourceCollection**

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

### **ServiceCollection**

A collection of the names of AWS services.

Type: [ServiceCollection](#) object

Required: No

### **Severity**

An array of severity values used to search for insights. For more information, see [Understanding insight severities](#) in the *Amazon DevOps Guru User Guide*.

Type: String

Valid Values: LOW | MEDIUM | HIGH

Required: No

## Status

An array of status values used to search for insights.

Type: String

Valid Values: ONGOING | CLOSED

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](#)

# Recommendation

Recommendation information to help you remediate detected anomalous behavior that generated an insight.

## Contents

### Category

The category type of the recommendation.

Type: String

Required: No

### Description

A description of the problem.

Type: String

Required: No

### Link

A hyperlink to information to help you address the problem.

Type: String

Required: No

### Name

The name of the recommendation.

Type: String

Required: No

### Reason

The reason DevOps Guru flagged the anomalous behavior as a problem.

Type: String

Required: No

## RelatedAnomalies

Anomalies that are related to the problem. Use these Anomalies to learn more about what's happening and to help address the issue.

Type: Array of [RecommendationRelatedAnomaly](#) objects

Required: No

## RelatedEvents

Events that are related to the problem. Use these events to learn more about what's happening and to help address the issue.

Type: Array of [RecommendationRelatedEvent](#) 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](#)

# RecommendationRelatedAnomaly

Information about an anomaly that is related to a recommendation.

## Contents

### AnomalyId

The ID of an anomaly that generated the insight with this recommendation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `^[\\w\\. -]*$`

Required: No

### Resources

An array of objects that represent resources in which DevOps Guru detected anomalous behavior. Each object contains the name and type of the resource.

Type: Array of [RecommendationRelatedAnomalyResource](#) objects

Required: No

### SourceDetails

Information about where the anomalous behavior related the recommendation was found. For example, details in Amazon CloudWatch metrics.

Type: Array of [RecommendationRelatedAnomalySourceDetail](#) 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](#)

# RecommendationRelatedAnomalyResource

Information about a resource in which DevOps Guru detected anomalous behavior.

## Contents

### Name

The name of the resource.

Type: String

Required: No

### Type

The type of the resource. Resource types take the same form that is used by AWS CloudFormation resource type identifiers, `service-provider::service-name::data-type-name`. For example, `AWS::RDS::DBCluster`. For more information, see [AWS resource and property types reference](#) in the *AWS CloudFormation User Guide*.

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](#)

# RecommendationRelatedAnomalySourceDetail

Contains an array of `RecommendationRelatedCloudWatchMetricsSourceDetail` objects that contain the name and namespace of an Amazon CloudWatch metric.

## Contents

### CloudWatchMetrics

An array of `CloudWatchMetricsDetail` objects that contains information about the analyzed metrics that displayed anomalous behavior.

Type: Array of [RecommendationRelatedCloudWatchMetricsSourceDetail](#) 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](#)

# RecommendationRelatedCloudWatchMetricsSourceDetail

Information about an Amazon CloudWatch metric that is analyzed by DevOps Guru. It is one of many analyzed metrics that are used to generate insights.

## Contents

### MetricName

The name of the CloudWatch metric.

Type: String

Required: No

### Namespace

The namespace of the CloudWatch metric. A namespace is a container for CloudWatch metrics.

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](#)

# RecommendationRelatedEvent

Information about an event that is related to a recommendation.

## Contents

### Name

The name of the event. This corresponds to the Name field in an Event object.

Type: String

Required: No

### Resources

A ResourceCollection object that contains arrays of the names of AWS CloudFormation stacks. You can specify up to 1000 AWS CloudFormation stacks.

Type: Array of [RecommendationRelatedEventResource](#) 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](#)

# RecommendationRelatedEventResource

Information about an AWS resource that emitted an event that is related to a recommendation in an insight.

## Contents

### Name

The name of the resource that emitted the event. This corresponds to the Name field in an EventResource object.

Type: String

Required: No

### Type

The type of the resource that emitted the event. This corresponds to the Type field in an EventResource object.

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](#)

# ResourceCollection

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

## Contents

### CloudFormation

An array of the names of AWS CloudFormation stacks. The stacks define AWS resources that DevOps Guru analyzes. You can specify up to 1000 AWS CloudFormation stacks.

Type: [CloudFormationCollection](#) object

Required: No

### Tags

The AWS tags that are used by resources in the resource collection.

Tags help you identify and organize your AWS resources. Many AWS services support tagging, so you can assign the same tag to resources from different services to indicate that the resources are related. For example, you can assign the same tag to an Amazon DynamoDB table resource that you assign to an AWS Lambda function. For more information about using tags, see the [Tagging best practices](#) whitepaper.

Each AWS tag has two parts.

- A tag *key* (for example, CostCenter, Environment, Project, or Secret). Tag *keys* are case-sensitive.
- An optional field known as a tag *value* (for example, 111122223333, Production, or a team name). Omitting the tag *value* is the same as using an empty string. Like tag *keys*, tag *values* are case-sensitive.

Together these are known as *key-value* pairs.

** Important**

When you create a *key*, the case of characters in the *key* can be whatever you choose. After you create a *key*, it is case-sensitive. For example, DevOps Guru works with a *key* named `devops-guru-rds` and a *key* named `DevOps-Guru-RDS`, and these act as two different *keys*. Possible *key/value* pairs in your application might be `Devops-Guru-production-application/RDS` or `Devops-Guru-production-application/containers`.

Type: Array of [TagCollection](#) 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](#)

# ResourceCollectionFilter

Information about a filter used to specify which AWS resources are analyzed for anomalous behavior by DevOps Guru.

## Contents

### CloudFormation

Information about AWS CloudFormation stacks. You can use up to 1000 stacks to specify which AWS resources in your account to analyze. For more information, see [Stacks](#) in the *AWS CloudFormation User Guide*.

Type: [CloudFormationCollectionFilter](#) object

Required: No

### Tags

The AWS tags used to filter the resources in the resource collection.

Tags help you identify and organize your AWS resources. Many AWS services support tagging, so you can assign the same tag to resources from different services to indicate that the resources are related. For example, you can assign the same tag to an Amazon DynamoDB table resource that you assign to an AWS Lambda function. For more information about using tags, see the [Tagging best practices](#) whitepaper.

Each AWS tag has two parts.

- A tag *key* (for example, CostCenter, Environment, Project, or Secret). Tag *keys* are case-sensitive.
- An optional field known as a tag *value* (for example, 111122223333, Production, or a team name). Omitting the tag *value* is the same as using an empty string. Like tag *keys*, tag *values* are case-sensitive.

Together these are known as *key-value* pairs.

#### Important

When you create a *key*, the case of characters in the *key* can be whatever you choose. After you create a *key*, it is case-sensitive. For example, DevOps Guru works with a *key*

named `devops-guru-rds` and a *key* named `DevOps-Guru-RDS`, and these act as two different *keys*. Possible *key/value* pairs in your application might be `Devops-Guru-production-application/RDS` or `Devops-Guru-production-application/containers`.

Type: Array of [TagCollectionFilter](#) 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](#)

# SearchInsightsFilters

Specifies values used to filter responses when searching for insights. You can use a `ResourceCollection`, `ServiceCollection`, array of severities, and an array of status values. Each filter type contains one or more values to search for. If you specify multiple filter types, the filter types are joined with an AND, and the request returns only results that match all of the specified filters.

## Contents

### ResourceCollection

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

### ServiceCollection

A collection of the names of AWS services.

Type: [ServiceCollection](#) object

Required: No

### Severities

An array of severity values used to search for insights.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 3 items.

Valid Values: LOW | MEDIUM | HIGH

Required: No

## Statuses

An array of status values used to search for insights.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Valid Values: ONGOING | CLOSED

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](#)

# SearchOrganizationInsightsFilters

Filters you can use to specify which events are returned when `ListEvents` is called.

## Contents

### ResourceCollection

A collection of AWS resources supported by DevOps Guru. The two types of AWS resource collections supported are AWS CloudFormation stacks and AWS resources that contain the same AWS tag. DevOps Guru can be configured to analyze the AWS resources that are defined in the stacks or that are tagged using the same tag *key*. You can specify up to 1000 AWS CloudFormation stacks.

Type: [ResourceCollection](#) object

Required: No

### ServiceCollection

A collection of the names of AWS services.

Type: [ServiceCollection](#) object

Required: No

### Severities

An array of severity values used to search for insights.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 3 items.

Valid Values: LOW | MEDIUM | HIGH

Required: No

### Statuses

An array of status values used to search for insights.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 2 items.

Valid Values: ONGOING | CLOSED

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](#)

# ServiceCollection

A collection of the names of AWS services.

## Contents

### ServiceNames

An array of strings that each specifies the name of an AWS service.

Type: Array of strings

Valid Values: API\_GATEWAY | APPLICATION\_ELB | AUTO\_SCALING\_GROUP |  
CLOUD\_FRONT | DYNAMO\_DB | EC2 | ECS | EKS | ELASTIC\_BEANSTALK |  
ELASTI\_CACHE | ELB | ES | KINESIS | LAMBDA | NAT\_GATEWAY | NETWORK\_ELB |  
RDS | REDSHIFT | ROUTE\_53 | S3 | SAGE\_MAKER | SNS | SQS | STEP\_FUNCTIONS  
| SWF

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](#)

# ServiceHealth

Represents the health of an AWS service.

## Contents

### AnalyzedResourceCount

Number of resources that DevOps Guru is monitoring in an analyzed AWS service.

Type: Long

Required: No

### Insight

Represents the health of an AWS service. This is a `ServiceInsightHealth` that contains the number of open proactive and reactive insights for this service.

Type: [ServiceInsightHealth](#) object

Required: No

### ServiceName

The name of the AWS service.

Type: String

Valid Values: API\_GATEWAY | APPLICATION\_ELB | AUTO\_SCALING\_GROUP | CLOUD\_FRONT | DYNAMO\_DB | EC2 | ECS | EKS | ELASTIC\_BEANSTALK | ELASTI\_CACHE | ELB | ES | KINESIS | LAMBDA | NAT\_GATEWAY | NETWORK\_ELB | RDS | REDSHIFT | ROUTE\_53 | S3 | SAGE\_MAKER | SNS | SQS | STEP\_FUNCTIONS | SWF

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](#)

# ServiceInsightHealth

Contains the number of open proactive and reactive insights in an analyzed AWS service.

## Contents

### OpenProactiveInsights

The number of open proactive insights in the AWS service

Type: Integer

Required: No

### OpenReactiveInsights

The number of open reactive insights in the AWS service

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](#)

# ServiceIntegrationConfig

Information about the integration of DevOps Guru with another AWS service, such as AWS Systems Manager.

## Contents

### KMSServerSideEncryption

Information about whether DevOps Guru is configured to encrypt server-side data using KMS.

Type: [KMSServerSideEncryptionIntegration](#) object

Required: No

### LogsAnomalyDetection

Information about whether DevOps Guru is configured to perform log anomaly detection on Amazon CloudWatch log groups.

Type: [LogsAnomalyDetectionIntegration](#) object

Required: No

### OpsCenter

Information about whether DevOps Guru is configured to create an OpsItem in AWS Systems Manager OpsCenter for each created insight.

Type: [OpsCenterIntegration](#) 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](#)



# ServiceResourceCost

An object that contains information about the estimated monthly cost to analyze an AWS resource. For more information, see [Estimate your Amazon DevOps Guru costs](#) and [Amazon DevOps Guru pricing](#).

## Contents

### Cost

The total estimated monthly cost to analyze the active resources for this resource.

Type: Double

Required: No

### Count

The number of active resources analyzed for this service to create a monthly cost estimate.

Type: Integer

Required: No

### State

The state of the resource. The resource is `ACTIVE` if it produces metrics, events, or logs within an hour, otherwise it is `INACTIVE`. You pay for the number of active AWS resource hours analyzed for each resource. Inactive resources are not charged.

Type: String

Valid Values: `ACTIVE` | `INACTIVE`

Required: No

### Type

The type of the AWS resource.

Type: String

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

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

Required: No

### UnitCost

The price per hour to analyze the resources in the service. For more information, see [Estimate your Amazon DevOps Guru costs](#) and [Amazon DevOps Guru pricing](#).

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](#)

# SnsChannelConfig

Contains the Amazon Resource Name (ARN) of an Amazon Simple Notification Service topic.

If you use an Amazon SNS topic in another account, you must attach a policy to it that grants DevOps Guru permission to send it notifications. DevOps Guru adds the required policy on your behalf to send notifications using Amazon SNS in your account. DevOps Guru only supports standard SNS topics. For more information, see [Permissions for Amazon SNS topics](#).

If you use an Amazon SNS topic that is encrypted by an AWS Key Management Service customer-managed key (CMK), then you must add permissions to the CMK. For more information, see [Permissions for AWS KMS–encrypted Amazon SNS topics](#).

## Contents

### TopicArn

The Amazon Resource Name (ARN) of an Amazon Simple Notification Service topic.

Type: String

Length Constraints: Minimum length of 36. Maximum length of 1024.

Pattern: `^arn:aws[a-z0-9-]*:sns:[a-z0-9-]+:\d{12}:[^:]+$`

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](#)

# StartTimeRange

A time range used to specify when the behavior of an insight or anomaly started.

## Contents

### FromTime

The start time of the time range.

Type: Timestamp

Required: No

### ToTime

The end time of the time range.

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](#)

# TagCollection

A collection of AWS tags.

Tags help you identify and organize your AWS resources. Many AWS services support tagging, so you can assign the same tag to resources from different services to indicate that the resources are related. For example, you can assign the same tag to an Amazon DynamoDB table resource that you assign to an AWS Lambda function. For more information about using tags, see the [Tagging best practices](#) whitepaper.

Each AWS tag has two parts.

- A tag *key* (for example, CostCenter, Environment, Project, or Secret). Tag *keys* are case-sensitive.
- An optional field known as a tag *value* (for example, 111122223333, Production, or a team name). Omitting the tag *value* is the same as using an empty string. Like tag *keys*, tag *values* are case-sensitive.

Together these are known as *key-value* pairs.

## Important

When you create a *key*, the case of characters in the *key* can be whatever you choose. After you create a *key*, it is case-sensitive. For example, DevOps Guru works with a *key* named devops-guru-rds and a *key* named DevOps-Guru-RDS, and these act as two different *keys*. Possible *key/value* pairs in your application might be Devops-Guru-production-application/RDS or Devops-Guru-production-application/containers.

## Contents

### AppBoundaryKey

An AWS tag *key* that is used to identify the AWS resources that DevOps Guru analyzes. All AWS resources in your account and Region tagged with this *key* make up your DevOps Guru application and analysis boundary.

**⚠ Important**

When you create a *key*, the case of characters in the *key* can be whatever you choose. After you create a *key*, it is case-sensitive. For example, DevOps Guru works with a *key* named `devops-guru-rds` and a *key* named `DevOps-Guru-RDS`, and these act as two different *keys*. Possible *key/value* pairs in your application might be `Devops-Guru-production-application/RDS` or `Devops-Guru-production-application/containers`.

Type: String

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

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

Required: Yes

**TagValues**

The values in an AWS tag collection.

The tag's *value* is an optional field used to associate a string with the tag *key* (for example, `111122223333`, `Production`, or a team name). The *key* and *value* are the tag's *key* pair. Omitting the tag *value* is the same as using an empty string. Like tag *keys*, tag *values* are case-sensitive. You can specify a maximum of 256 characters for a tag value.

Type: Array of strings

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](#)

# TagCollectionFilter

A collection of AWS tags used to filter insights. This is used to return insights generated from only resources that contain the tags in the tag collection.

## Contents

### AppBoundaryKey

An AWS tag *key* that is used to identify the AWS resources that DevOps Guru analyzes. All AWS resources in your account and Region tagged with this *key* make up your DevOps Guru application and analysis boundary.

#### Important

When you create a *key*, the case of characters in the *key* can be whatever you choose. After you create a *key*, it is case-sensitive. For example, DevOps Guru works with a *key* named `devops-guru-rds` and a *key* named `DevOps-Guru-RDS`, and these act as two different *keys*. Possible *key/value* pairs in your application might be `Devops-Guru-production-application/RDS` or `Devops-Guru-production-application/containers`.

Type: String

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

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

Required: Yes

### TagValues

The values in an AWS tag collection.

The tag's *value* is an optional field used to associate a string with the tag *key* (for example, `111122223333`, `Production`, or a team name). The *key* and *value* are the tag's *key* pair. Omitting the tag *value* is the same as using an empty string. Like tag *keys*, tag *values* are case-sensitive. You can specify a maximum of 256 characters for a tag value.

Type: Array of strings

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](#)

# TagCostEstimationResourceCollectionFilter

Information about a collection of AWS resources that are identified by an AWS tag. This collection of resources is used to create a monthly cost estimate for DevOps Guru to analyze AWS resources. The maximum number of tags you can specify for a cost estimate is one. The estimate created is for the cost to analyze the AWS resources defined by the tag. For more information, see [Stacks](#) in the *AWS CloudFormation User Guide*.

## Contents

### AppBoundaryKey

An AWS tag *key* that is used to identify the AWS resources that DevOps Guru analyzes. All AWS resources in your account and Region tagged with this *key* make up your DevOps Guru application and analysis boundary.

#### Important

When you create a *key*, the case of characters in the *key* can be whatever you choose. After you create a *key*, it is case-sensitive. For example, DevOps Guru works with a *key* named `devops-guru-rds` and a *key* named `DevOps-Guru-RDS`, and these act as two different *keys*. Possible *key/value* pairs in your application might be `Devops-Guru-production-application/RDS` or `Devops-Guru-production-application/containers`.

Type: String

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

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

Required: Yes

### TagValues

The values in an AWS tag collection.

The tag's *value* is an optional field used to associate a string with the tag *key* (for example, `111122223333`, `Production`, or a team name). The *key* and *value* are the tag's *key* pair.

Omitting the tag *value* is the same as using an empty string. Like tag *keys*, tag *values* are case-sensitive. You can specify a maximum of 256 characters for a tag value.

Type: Array of strings

Array Members: Fixed number of 1 item.

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](#)

# TagHealth

Information about the health of AWS resources in your account that are specified by an AWS tag *key*.

## Contents

### AnalyzedResourceCount

Number of resources that DevOps Guru is monitoring in your account that are specified by an AWS tag.

Type: Long

Required: No

### AppBoundaryKey

An AWS tag *key* that is used to identify the AWS resources that DevOps Guru analyzes. All AWS resources in your account and Region tagged with this *key* make up your DevOps Guru application and analysis boundary.

#### Important

When you create a *key*, the case of characters in the *key* can be whatever you choose. After you create a *key*, it is case-sensitive. For example, DevOps Guru works with a *key* named `devops-guru-rds` and a *key* named `DevOps-Guru-RDS`, and these act as two different *keys*. Possible *key/value* pairs in your application might be `Devops-Guru-production-application/RDS` or `Devops-Guru-production-application/containers`.

Type: String

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

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

Required: No

## Insight

Information about the health of the AWS resources in your account that are specified by an AWS tag, including the number of open proactive, open reactive insights, and the Mean Time to Recover (MTTR) of closed insights.

Type: [InsightHealth](#) object

Required: No

## TagValue

The value in an AWS tag.

The tag's *value* is an optional field used to associate a string with the tag *key* (for example, 111122223333, Production, or a team name). The *key* and *value* are the tag's *key* pair. Omitting the tag *value* is the same as using an empty string. Like tag *keys*, tag *values* are case-sensitive. You can specify a maximum of 256 characters for a tag value.

Type: String

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

Pattern: `^([\p{L}\p{Z}\p{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](#)

# TimestampMetricValuePair

A pair that contains metric values at the respective timestamp.

## Contents

### MetricValue

Value of the anomalous metric data point at respective Timestamp.

Type: Double

Required: No

### Timestamp

A Timestamp that specifies the time the event occurred.

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](#)

# UpdateCloudFormationCollectionFilter

Contains the names of AWS CloudFormation stacks used to update a collection of stacks. You can specify up to 1000 AWS CloudFormation stacks.

## Contents

### StackNames

An array of the names of the AWS CloudFormation stacks to update. You can specify up to 1000 AWS CloudFormation stacks.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

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

Pattern: `^[a-zA-Z*]+[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](#)

# UpdateResourceCollectionFilter

Contains information used to update a collection of AWS resources.

## Contents

### CloudFormation

A collection of AWS CloudFormation stacks. You can specify up to 1000 AWS CloudFormation stacks.

Type: [UpdateCloudFormationCollectionFilter](#) object

Required: No

### Tags

The updated AWS tags used to filter the resources in the resource collection.

Tags help you identify and organize your AWS resources. Many AWS services support tagging, so you can assign the same tag to resources from different services to indicate that the resources are related. For example, you can assign the same tag to an Amazon DynamoDB table resource that you assign to an AWS Lambda function. For more information about using tags, see the [Tagging best practices](#) whitepaper.

Each AWS tag has two parts.

- A tag *key* (for example, CostCenter, Environment, Project, or Secret). Tag *keys* are case-sensitive.
- An optional field known as a tag *value* (for example, 111122223333, Production, or a team name). Omitting the tag *value* is the same as using an empty string. Like tag *keys*, tag *values* are case-sensitive.

Together these are known as *key-value* pairs.

#### Important

When you create a *key*, the case of characters in the *key* can be whatever you choose. After you create a *key*, it is case-sensitive. For example, DevOps Guru works with a *key* named devops-guru-rds and a *key* named DevOps-Guru-RDS, and these act as two different *keys*. Possible *key/value* pairs in your application might be DevOps-Guru-

production-application/RDS or Devops-Guru-production-application/containers.

Type: Array of [UpdateTagCollectionFilter](#) 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](#)

# UpdateServiceIntegrationConfig

Information about updating the integration status of an AWS service, such as AWS Systems Manager, with DevOps Guru.

## Contents

### KMSServerSideEncryption

Information about whether DevOps Guru is configured to encrypt server-side data using KMS.

Type: [KMSServerSideEncryptionIntegrationConfig](#) object

Required: No

### LogsAnomalyDetection

Information about whether DevOps Guru is configured to perform log anomaly detection on Amazon CloudWatch log groups.

Type: [LogsAnomalyDetectionIntegrationConfig](#) object

Required: No

### OpsCenter

Information about whether DevOps Guru is configured to create an OpsItem in AWS Systems Manager OpsCenter for each created insight. You can use this to update the configuration.

Type: [OpsCenterIntegrationConfig](#) 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](#)



# UpdateTagCollectionFilter

A new collection of AWS resources that are defined by an AWS tag or tag *key/value* pair.

## Contents

### AppBoundaryKey

An AWS tag *key* that is used to identify the AWS resources that DevOps Guru analyzes. All AWS resources in your account and Region tagged with this *key* make up your DevOps Guru application and analysis boundary.

#### Important

When you create a *key*, the case of characters in the *key* can be whatever you choose. After you create a *key*, it is case-sensitive. For example, DevOps Guru works with a *key* named `devops-guru-rds` and a *key* named `DevOps-Guru-RDS`, and these act as two different *keys*. Possible *key/value* pairs in your application might be `Devops-Guru-production-application/RDS` or `Devops-Guru-production-application/containers`.

Type: String

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

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

Required: Yes

### TagValues

The values in an AWS tag collection.

The tag's *value* is an optional field used to associate a string with the tag *key* (for example, `111122223333`, `Production`, or a team name). The *key* and *value* are the tag's *key* pair. Omitting the tag *value* is the same as using an empty string. Like tag *keys*, tag *values* are case-sensitive. You can specify a maximum of 256 characters for a tag value.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 100 items.

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](#)

# ValidationExceptionField

The field associated with the validation exception.

## Contents

### Message

The message associated with the validation exception with information to help determine its cause.

Type: String

Required: Yes

### Name

The name of the field.

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](#)

# 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**

# Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

## **AccessDeniedException**

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

## **IncompleteSignature**

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

## **InternalFailure**

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

## **MalformedHttpRequestException**

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

**NotAuthorized**

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

**OptInRequired**

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

**RequestAbortedException**

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

**RequestEntityTooLargeException**

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

**RequestTimeoutException**

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

**ServiceUnavailable**

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

**ThrottlingException**

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

**UnknownOperationException**

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

**UnrecognizedClientException**

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

**ValidationError**

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400