API Reference

Amazon Lightsail

API Version 2016-11-28

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Amazon Lightsail: API Reference

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Welcome

Amazon Lightsail is the easiest way to get started with Amazon Web Services (AWS) for developers who need to build websites or web applications. It includes everything you need to launch your project quickly - instances (virtual private servers), container services, storage buckets, managed databases, SSD-based block storage, static IP addresses, load balancers, content delivery network (CDN) distributions, DNS management of registered domains, and resource snapshots (backups) - for a low, predictable monthly price.

You can manage your Lightsail resources using the Lightsail console, Lightsail API, AWS Command Line Interface (AWS CLI), or SDKs. For more information about Lightsail concepts and tasks, see the Amazon Lightsail Developer Guide.

This API Reference provides detailed information about the actions, data types, parameters, and errors of the Lightsail service. For more information about the supported AWS Regions, endpoints, and service quotas of the Lightsail service, see Amazon Lightsail Endpoints and Quotas in the *AWS General Reference*.

This document was last published on September 21, 2026.

Actions

The following actions are supported:

- AllocateStaticIp
- AttachCertificateToDistribution
- AttachDisk
- AttachInstancesToLoadBalancer
- AttachLoadBalancerTlsCertificate
- AttachStaticIp
- CloseInstancePublicPorts
- CopySnapshot
- CreateBucket
- CreateBucketAccessKey
- CreateCertificate
- CreateCloudFormationStack
- CreateContactMethod
- CreateContainerService
- CreateContainerServiceDeployment
- CreateContainerServiceRegistryLogin
- CreateDisk
- CreateDiskFromSnapshot
- CreateDiskSnapshot
- CreateDistribution
- CreateDomain
- CreateDomainEntry
- CreateGUISessionAccessDetails
- CreateInstances
- CreateInstancesFromSnapshot
- CreateInstanceSnapshot
- CreateKeyPair

- CreateLoadBalancer
- CreateLoadBalancerTlsCertificate
- CreateRelationalDatabase
- CreateRelationalDatabaseFromSnapshot
- CreateRelationalDatabaseSnapshot
- DeleteAlarm
- DeleteAutoSnapshot
- DeleteBucket
- DeleteBucketAccessKey
- DeleteCertificate
- DeleteContactMethod
- DeleteContainerImage
- DeleteContainerService
- DeleteDisk
- DeleteDiskSnapshot
- DeleteDistribution
- DeleteDomain
- DeleteDomainEntry
- DeleteInstance
- DeleteInstanceSnapshot
- DeleteKeyPair
- DeleteKnownHostKeys
- DeleteLoadBalancer
- DeleteLoadBalancerTlsCertificate
- DeleteRelationalDatabase
- DeleteRelationalDatabaseSnapshot
- DetachCertificateFromDistribution
- DetachDisk
- DetachInstancesFromLoadBalancer
- DetachStaticIp

- DisableAddOn
- DownloadDefaultKeyPair
- EnableAddOn
- ExportSnapshot
- GetActiveNames
- GetAlarms
- GetAutoSnapshots
- GetBlueprints
- GetBucketAccessKeys
- GetBucketBundles
- GetBucketMetricData
- GetBuckets
- GetBundles
- GetCertificates
- GetCloudFormationStackRecords
- GetContactMethods
- GetContainerAPIMetadata
- GetContainerImages
- GetContainerLog
- GetContainerServiceDeployments
- GetContainerServiceMetricData
- GetContainerServicePowers
- GetContainerServices
- GetCostEstimate
- GetDisk
- GetDisks
- GetDiskSnapshot
- GetDiskSnapshots
- GetDistributionBundles
- GetDistributionLatestCacheReset

- GetDistributionMetricData
- GetDistributions
- GetDomain
- GetDomains
- GetExportSnapshotRecords
- GetInstance
- GetInstanceAccessDetails
- GetInstanceMetricData
- GetInstancePortStates
- GetInstances
- GetInstanceSnapshot
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- GetLoadBalancers
- GetLoadBalancerTlsCertificates
- GetLoadBalancerTlsPolicies
- GetOperation
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- GetRelationalDatabaseLogEvents

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- GetRelationalDatabaseMetricData
- GetRelationalDatabaseParameters
- GetRelationalDatabases
- GetRelationalDatabaseSnapshot
- GetRelationalDatabaseSnapshots
- GetSetupHistory
- GetStaticIp
- GetStaticIps
- ImportKeyPair
- IsVpcPeered
- OpenInstancePublicPorts
- PeerVpc
- PutAlarm
- PutInstancePublicPorts
- RebootInstance
- RebootRelationalDatabase
- RegisterContainerImage
- ReleaseStaticIp
- ResetDistributionCache
- SendContactMethodVerification
- SetIpAddressType
- SetResourceAccessForBucket
- SetupInstanceHttps
- StartGUISession
- StartInstance
- StartRelationalDatabase
- StopGUISession
- StopInstance

- StopRelationalDatabase
- TagResource
- TestAlarm
- UnpeerVpc
- UntagResource
- UpdateBucket
- UpdateBucketBundle
- UpdateContainerService
- UpdateDistribution
- UpdateDistributionBundle
- UpdateDomainEntry
- UpdateInstanceMetadataOptions
- UpdateLoadBalancerAttribute
- UpdateRelationalDatabase
- UpdateRelationalDatabaseParameters

AllocateStaticIp

Allocates a static IP address.

Request Syntax

```
{
   "staticIpName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

staticIpName

The name of the static IP address.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
```

```
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

AttachCertificateToDistribution

Attaches an SSL/TLS certificate to your Amazon Lightsail content delivery network (CDN) distribution.

After the certificate is attached, your distribution accepts HTTPS traffic for all of the domains that are associated with the certificate.

Use the `CreateCertificate` action to create a certificate that you can attach to your distribution.

> **Important**
>
> Only certificates created in the `us-east-1` AWS Region can be attached to Lightsail distributions. Lightsail distributions are global resources that can reference an origin in any AWS Region, and distribute its content globally. However, all distributions are located in the `us-east-1` Region.

Request Syntax

```
{
   "certificateName": "string",
   "distributionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

certificateName

The name of the certificate to attach to a distribution.

Only certificates with a status of `ISSUED` can be attached to a distribution.

Use the `GetCertificates` action to get a list of certificate names that you can specify.

> **Note**
>
> This is the name of the certificate resource type and is used only to reference the certificate in other API actions. It can be different than the domain name of the certificate. For example, your certificate name might be `WordPress-Blog-Certificate` and the domain name of the certificate might be `example.com`.

Type: String

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

Required: Yes

distributionName

The name of the distribution that the certificate will be attached to.

Use the `GetDistributions` action to get a list of distribution names that you can specify.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
      "resourceName": "string",
```

```
        "resourceType": "string",
        "status": "string",
        "statusChangedAt": 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.

operation

An object that describes the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

AttachDisk

Attaches a block storage disk to a running or stopped Lightsail instance and exposes it to the instance with the specified disk name.

The `attach disk` operation supports tag-based access control via resource tags applied to the resource identified by `disk name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "autoMounting": boolean,
   "diskName": "string",
   "diskPath": "string",
   "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

autoMounting

A Boolean value used to determine the automatic mounting of a storage volume to a virtual computer. The default value is `False`.

> **Important**
>
> This value only applies to Lightsail for Research resources.

Type: Boolean

Required: No

diskName

The unique Lightsail disk name (`my-disk`).

Type: String

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

Required: Yes

diskPath

The disk path to expose to the instance (`/dev/xvdf`).

Type: String

Pattern: `.*\S.*`

Required: Yes

instanceName

The name of the Lightsail instance where you want to utilize the storage disk.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
```

```
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

AttachInstancesToLoadBalancer

Attaches one or more Lightsail instances to a load balancer.

After some time, the instances are attached to the load balancer and the health check status is available.

The `attach instances to load balancer` operation supports tag-based access control via resource tags applied to the resource identified by `load balancer name`. For more information, see the Lightsail Developer Guide.

Request Syntax

```
{
   "instanceNames": [ "string" ],
   "loadBalancerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceNames

An array of strings representing the instance name(s) you want to attach to your load balancer.

An instance must be `running` before you can attach it to your load balancer.

There are no additional limits on the number of instances you can attach to your load balancer, aside from the limit of Lightsail instances you can create in your account (20).

Type: Array of strings

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

Required: Yes

loadBalancerName

The name of the load balancer.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

AttachLoadBalancerTlsCertificate

Attaches a Transport Layer Security (TLS) certificate to your load balancer. TLS is just an updated, more secure version of Secure Socket Layer (SSL).

Once you create and validate your certificate, you can attach it to your load balancer. You can also use this API to rotate the certificates on your account. Use the `AttachLoadBalancerTlsCertificate` action with the non-attached certificate, and it will replace the existing one and become the attached certificate.

The `AttachLoadBalancerTlsCertificate` operation supports tag-based access control via resource tags applied to the resource identified by `load balancer name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "certificateName": "string",
   "loadBalancerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

certificateName

The name of your SSL/TLS certificate.

Type: String

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

Required: Yes

loadBalancerName

The name of the load balancer to which you want to associate the SSL/TLS certificate.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

These SSL/TLS certificates are only usable by Lightsail load balancers. You can't get the certificate and use it for another purpose.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

AttachStaticIp

Attaches a static IP address to a specific Amazon Lightsail instance.

Request Syntax

```
{
   "instanceName": "string",
   "staticIpName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceName

The instance name to which you want to attach the static IP address.

Type: String

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

Required: Yes

staticIpName

The name of the static IP.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
```

```
            "createdAt": number,
            "errorCode": "string",
            "errorDetails": "string",
            "id": "string",
            "isTerminal": boolean,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CloseInstancePublicPorts

Closes ports for a specific Amazon Lightsail instance.

The `CloseInstancePublicPorts` action supports tag-based access control via resource tags applied to the resource identified by `instanceName`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "instanceName": "string",
   "portInfo": {
      "cidrListAliases": [ "string" ],
      "cidrs": [ "string" ],
      "fromPort": number,
      "ipv6Cidrs": [ "string" ],
      "protocol": "string",
      "toPort": number
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceName

The name of the instance for which to close ports.

Type: String

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

Required: Yes

portInfo

An object to describe the ports to close for the specified instance.

Type: PortInfo object

Required: Yes

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
      "resourceName": "string",
      "resourceType": "string",
      "status": "string",
      "statusChangedAt": 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.

operation

An object that describes the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CopySnapshot

Copies a manual snapshot of an instance or disk as another manual snapshot, or copies an automatic snapshot of an instance or disk as a manual snapshot. This operation can also be used to copy a manual or automatic snapshot of an instance or a disk from one AWS Region to another in Amazon Lightsail.

When copying a *manual snapshot*, be sure to define the `source region`, `source snapshot name`, and `target snapshot name` parameters.

When copying an *automatic snapshot*, be sure to define the `source region`, `source resource name`, `target snapshot name`, and either the `restore date` or the `use latest restorable auto snapshot` parameters.

Request Syntax

```
{
   "restoreDate": "string",
   "sourceRegion": "string",
   "sourceResourceName": "string",
   "sourceSnapshotName": "string",
   "targetSnapshotName": "string",
   "useLatestRestorableAutoSnapshot": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

restoreDate

The date of the source automatic snapshot to copy. Use the `get auto snapshots` operation to identify the dates of the available automatic snapshots.

Constraints:

- Must be specified in `YYYY-MM-DD` format.

- This parameter cannot be defined together with the `use latest restorable auto snapshot` parameter. The `restore date` and `use latest restorable auto snapshot` parameters are mutually exclusive.
- Define this parameter only when copying an automatic snapshot as a manual snapshot. For more information, see the Amazon Lightsail Developer Guide.

Type: String

Required: No

sourceRegion

The AWS Region where the source manual or automatic snapshot is located.

Type: String

Valid Values: `us-east-1 | us-east-2 | us-west-1 | us-west-2 | eu-west-1 | eu-west-2 | eu-west-3 | eu-central-1 | eu-north-1 | eu-south-2 | ca-central-1 | ap-east-1 | ap-south-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | ap-northeast-2 | ap-southeast-3 | ap-southeast-5 | sa-east-1`

Required: Yes

sourceResourceName

The name of the source instance or disk from which the source automatic snapshot was created.

Constraint:

- Define this parameter only when copying an automatic snapshot as a manual snapshot. For more information, see the Amazon Lightsail Developer Guide.

Type: String

Required: No

sourceSnapshotName

The name of the source manual snapshot to copy.

Constraint:

- Define this parameter only when copying a manual snapshot as another manual snapshot.

Type: String

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

Required: No

targetSnapshotName

The name of the new manual snapshot to be created as a copy.

Type: String

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

Required: Yes

useLatestRestorableAutoSnapshot

A Boolean value to indicate whether to use the latest available automatic snapshot of the specified source instance or disk.

Constraints:

- This parameter cannot be defined together with the `restore date` parameter. The `use latest restorable auto snapshot` and `restore date` parameters are mutually exclusive.
- Define this parameter only when copying an automatic snapshot as a manual snapshot. For more information, see the Amazon Lightsail Developer Guide.

Type: Boolean

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
```

```
            "errorCode": "string",
            "errorDetails": "string",
            "id": "string",
            "isTerminal": boolean,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

Examples

In the following example or examples, the Authorization header contents (`AUTHPARAMS`) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the *AWS General Reference*.

You need to learn how to sign HTTP requests only if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

Copy an automatic snapshot

The following example creates a new manual snapshot named `CopiedAutoSnapshot-2019-09-25` as a copy of the existing automatic snapshot named `2019-09-25` from the `WordPress-1` instance in the `us-west-2` AWS Region.

Sample Request

```
POST / HTTP/1.1
Host: lightsail.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: Lightsail_20161128.CopySnapshot
Content-Type: application/x-amz-json-1.1
User-Agent: AGENT
X-Amz-Date: 20190927T194244Z
Authorization: AUTHPARAMS
```

```
Content-Length: 150

{
 "sourceResourceName": "WordPress-1",
 "restoreDate": "2019-09-25",
 "targetSnapshotName": "CopiedAutoSnapshot-2019-09-25",
 "sourceRegion": "us-west-2"
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 27 Sep 2019 19:42:46 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 380
x-amzn-RequestId: 69449102-9023-431e-8a00-7EXAMPLE6970
Connection: keep-alive

{
 "operations": [{
  "createdAt": 1.56961336589E9,
  "id": "0710de23-b848-4146-887d-ec12093c049d",
  "isTerminal": false,
  "location": {
   "availabilityZone": "all",
   "regionName": "us-west-2"
  },
  "operationDetails": "us-west-2:WordPress-1",
  "operationType": "CopySnapshot",
  "resourceName": "CopiedAutoSnapshot-2019-09-25",
  "resourceType": "InstanceSnapshot",
  "status": "Started",
  "statusChangedAt": 1.56961336589E9
 }]
}
```

Copy a manual snapshot

The following example creates a new manual snapshot named `CopiedManualSnapshot-2019-09-25` as a copy of the existing manual snapshot named `WordPress-1-1569608575` in the `us-west-2` AWS Region.

Sample Request

```
POST / HTTP/1.1
Host: lightsail.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: Lightsail_20161128.CopySnapshot
Content-Type: application/x-amz-json-1.1
User-Agent: AGENT
X-Amz-Date: 20190927T195200Z
Authorization: AUTHPARAMS
Content-Length: 134

{
 "sourceSnapshotName": "WordPress-1-1569608575",
 "targetSnapshotName": "CopiedManualSnapshot-2019-09-25",
 "sourceRegion": "us-west-2"
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Fri, 27 Sep 2019 19:52:01 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 395
x-amzn-RequestId: 5e3e211b-0afe-439e-bead-8EXAMPLEb3c8
Connection: keep-alive

{
 "operations": [{
  "createdAt": 1.569613921044E9,
  "id": "0d4f2d2a-78ce-44d1-82fe-33588af9afa0",
  "isTerminal": false,
  "location": {
   "availabilityZone": "all",
   "regionName": "us-west-2"
  },
  "operationDetails": "us-west-2:WordPress-1-1569608575",
  "operationType": "CopySnapshot",
  "resourceName": "CopiedManualSnapshot-2019-09-25",
  "resourceType": "InstanceSnapshot",
  "status": "Started",
  "statusChangedAt": 1.569613921044E9
```

```
 }]
}
```

See Also

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

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

CreateBucket

Creates an Amazon Lightsail bucket.

A bucket is a cloud storage resource available in the Lightsail object storage service. Use buckets to store objects such as data and its descriptive metadata. For more information about buckets, see Buckets in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

Request Syntax

```
{
   "bucketName": "string",
   "bundleId": "string",
   "enableObjectVersioning": boolean,
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

bucketName

The name for the bucket.

For more information about bucket names, see Bucket naming rules in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 54.

Pattern: `^[a-z0-9][a-z0-9-]{1,52}[a-z0-9]$`

Required: Yes

bundleId

The ID of the bundle to use for the bucket.

A bucket bundle specifies the monthly cost, storage space, and data transfer quota for a bucket.

Use the GetBucketBundles action to get a list of bundle IDs that you can specify.

Use the UpdateBucketBundle action to change the bundle after the bucket is created.

Type: String

Pattern: `.*\S.*`

Required: Yes

enableObjectVersioning

A Boolean value that indicates whether to enable versioning of objects in the bucket.

For more information about versioning, see Enabling and suspending object versioning in a bucket in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

Type: Boolean

Required: No

tags

The tag keys and optional values to add to the bucket during creation.

Use the TagResource action to tag the bucket after it's created.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "bucket": {
      "ableToUpdateBundle": boolean,
      "accessLogConfig": {
         "destination": "string",
         "enabled": boolean,
         "prefix": "string"
```

```
        },
        "accessRules": {
           "allowPublicOverrides": boolean,
           "getObject": "string"
        },
        "arn": "string",
        "bundleId": "string",
        "cors": {
           "rules": [
              {
                 "allowedHeaders": [ "string" ],
                 "allowedMethods": [ "string" ],
                 "allowedOrigins": [ "string" ],
                 "exposeHeaders": [ "string" ],
                 "id": "string",
                 "maxAgeSeconds": number
              }
           ]
        },
        "createdAt": number,
        "location": {
           "availabilityZone": "string",
           "regionName": "string"
        },
        "name": "string",
        "objectVersioning": "string",
        "readonlyAccessAccounts": [ "string" ],
        "resourcesReceivingAccess": [
           {
              "name": "string",
              "resourceType": "string"
           }
        ],
        "resourceType": "string",
        "state": {
           "code": "string",
           "message": "string"
        },
        "supportCode": "string",
        "tags": [
           {
              "key": "string",
              "value": "string"
           }
```

```
        ],
        "url": "string"
    },
    "operations": [
        {
            "createdAt": number,
            "errorCode": "string",
            "errorDetails": "string",
            "id": "string",
            "isTerminal": boolean,
            "location": {
                "availabilityZone": "string",
                "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

bucket

An object that describes the bucket that is created.

Type: Bucket object

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateBucketAccessKey

Creates a new access key for the specified Amazon Lightsail bucket. Access keys consist of an access key ID and corresponding secret access key.

Access keys grant full programmatic access to the specified bucket and its objects. You can have a maximum of two access keys per bucket. Use the GetBucketAccessKeys action to get a list of current access keys for a specific bucket. For more information about access keys, see Creating access keys for a bucket in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

> **Important**
>
> The `secretAccessKey` value is returned only in response to the `CreateBucketAccessKey` action. You can get a secret access key only when you first create an access key; you cannot get the secret access key later. If you lose the secret access key, you must create a new access key.

Request Syntax

```
{
   "bucketName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

bucketName

The name of the bucket that the new access key will belong to, and grant access to.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 54.

Pattern: `^[a-z0-9][a-z0-9-]{1,52}[a-z0-9]$`

Required: Yes

Response Syntax

```
{
   "accessKey": {
      "accessKeyId": "string",
      "createdAt": number,
      "lastUsed": {
         "lastUsedDate": number,
         "region": "string",
         "serviceName": "string"
      },
      "secretAccessKey": "string",
      "status": "string"
   },
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

accessKey

An object that describes the access key that is created.

Type: AccessKey object

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateCertificate

Creates an SSL/TLS certificate for an Amazon Lightsail content delivery network (CDN) distribution and a container service.

After the certificate is valid, use the `AttachCertificateToDistribution` action to use the certificate and its domains with your distribution. Or use the `UpdateContainerService` action to use the certificate and its domains with your container service.

> **Important**
>
> Only certificates created in the `us-east-1` AWS Region can be attached to Lightsail distributions. Lightsail distributions are global resources that can reference an origin in any AWS Region, and distribute its content globally. However, all distributions are located in the `us-east-1` Region.

Request Syntax

```
{
   "certificateName": "string",
   "domainName": "string",
   "subjectAlternativeNames": [ "string" ],
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

certificateName

The name for the certificate.

Type: String

Required: Yes

domainName

The domain name (`example.com`) for the certificate.

Type: String

Required: Yes

subjectAlternativeNames

An array of strings that specify the alternate domains (`example2.com`) and subdomains (`blog.example.com`) for the certificate.

You can specify a maximum of nine alternate domains (in addition to the primary domain name).

Wildcard domain entries (`*.example.com`) are not supported.

Type: Array of strings

Required: No

tags

The tag keys and optional values to add to the certificate during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "certificate": {
      "certificateArn": "string",
      "certificateDetail": {
         "arn": "string",
         "createdAt": number,
         "domainName": "string",
         "domainValidationRecords": [
```

```
            {
               "dnsRecordCreationState": {
                  "code": "string",
                  "message": "string"
               },
               "domainName": "string",
               "resourceRecord": {
                  "name": "string",
                  "type": "string",
                  "value": "string"
               },
               "validationStatus": "string"
            }
         ],
         "eligibleToRenew": "string",
         "inUseResourceCount": number,
         "issuedAt": number,
         "issuerCA": "string",
         "keyAlgorithm": "string",
         "name": "string",
         "notAfter": number,
         "notBefore": number,
         "renewalSummary": {
            "domainValidationRecords": [
               {
                  "dnsRecordCreationState": {
                     "code": "string",
                     "message": "string"
                  },
                  "domainName": "string",
                  "resourceRecord": {
                     "name": "string",
                     "type": "string",
                     "value": "string"
                  },
                  "validationStatus": "string"
               }
            ],
            "renewalStatus": "string",
            "renewalStatusReason": "string",
            "updatedAt": number
         },
         "requestFailureReason": "string",
         "revocationReason": "string",
```

```
            "revokedAt": number,
            "serialNumber": "string",
            "status": "string",
            "subjectAlternativeNames": [ "string" ],
            "supportCode": "string",
            "tags": [
               {
                  "key": "string",
                  "value": "string"
               }
            ]
         },
         "certificateName": "string",
         "domainName": "string",
         "tags": [
            {
               "key": "string",
               "value": "string"
            }
         ]
      },
      "operations": [
         {
            "createdAt": number,
            "errorCode": "string",
            "errorDetails": "string",
            "id": "string",
            "isTerminal": boolean,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

certificate

An object that describes the certificate created.

Type: CertificateSummary object

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateCloudFormationStack

Creates an AWS CloudFormation stack, which creates a new Amazon EC2 instance from an exported Amazon Lightsail snapshot. This operation results in a CloudFormation stack record that can be used to track the AWS CloudFormation stack created. Use the `get cloud formation stack records` operation to get a list of the CloudFormation stacks created.

> **Important**
>
> Wait until after your new Amazon EC2 instance is created before running the `create cloud formation stack` operation again with the same export snapshot record.

Request Syntax

```
{
   "instances": [
      {
         "availabilityZone": "string",
         "instanceType": "string",
         "portInfoSource": "string",
         "sourceName": "string",
         "userData": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instances

An array of parameters that will be used to create the new Amazon EC2 instance. You can only pass one instance entry at a time in this array. You will get an invalid parameter error if you pass more than one instance entry in this array.

Type: Array of InstanceEntry objects

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateContactMethod

Creates an email or SMS text message contact method.

A contact method is used to send you notifications about your Amazon Lightsail resources. You can add one email address and one mobile phone number contact method in each AWS Region. However, SMS text messaging is not supported in some AWS Regions, and SMS text messages cannot be sent to some countries/regions. For more information, see Notifications in Amazon Lightsail.

The `create contact method` operation supports tag-based access control via request tags. For more information, see the Lightsail Developer Guide.

Request Syntax

```
{
   "contactEndpoint": "string",
   "protocol": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

contactEndpoint

The destination of the contact method, such as an email address or a mobile phone number.

Use the E.164 format when specifying a mobile phone number. E.164 is a standard for the phone number structure used for international telecommunication. Phone numbers that follow this format can have a maximum of 15 digits, and they are prefixed with the plus character (+) and the country code. For example, a U.S. phone number in E.164 format would be specified as +1XXX5550100. For more information, see E.164 on *Wikipedia*.

Type: String

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

Required: Yes

protocol

The protocol of the contact method, such as `Email` or `SMS` (text messaging).

The `SMS` protocol is supported only in the following AWS Regions.

- US East (N. Virginia) (`us-east-1`)
- US West (Oregon) (`us-west-2`)
- Europe (Ireland) (`eu-west-1`)
- Asia Pacific (Tokyo) (`ap-northeast-1`)
- Asia Pacific (Singapore) (`ap-southeast-1`)
- Asia Pacific (Sydney) (`ap-southeast-2`)

For a list of countries/regions where SMS text messages can be sent, and the latest AWS Regions where SMS text messaging is supported, see Supported Regions and Countries in the *Amazon SNS Developer Guide*.

For more information about notifications in Amazon Lightsail, see Notifications in Amazon Lightsail.

Type: String

Valid Values: `Email | SMS`

Required: Yes

tags

The tag keys and optional values to add to the contact method during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateContainerService

Creates an Amazon Lightsail container service.

A Lightsail container service is a compute resource to which you can deploy containers. For more information, see Container services in Amazon Lightsail in the *Lightsail Dev Guide*.

Request Syntax

```
{
   "deployment": {
      "containers": {
         "string" : {
            "command": [ "string" ],
            "environment": {
               "string" : "string"
            },
            "image": "string",
            "ports": {
               "string" : "string"
            }
         }
      },
      "publicEndpoint": {
         "containerName": "string",
         "containerPort": number,
         "healthCheck": {
            "healthyThreshold": number,
            "intervalSeconds": number,
            "path": "string",
            "successCodes": "string",
            "timeoutSeconds": number,
            "unhealthyThreshold": number
         }
      }
   },
   "power": "string",
   "privateRegistryAccess": {
      "ecrImagePullerRole": {
         "isActive": boolean
      }
   },
   "publicDomainNames": {
```

```
        "string" : [ "string" ]
    },
    "scale": number,
    "serviceName": "string",
    "tags": [
        {
            "key": "string",
            "value": "string"
        }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

deployment

An object that describes a deployment for the container service.

A deployment specifies the containers that will be launched on the container service and their settings, such as the ports to open, the environment variables to apply, and the launch command to run. It also specifies the container that will serve as the public endpoint of the deployment and its settings, such as the HTTP or HTTPS port to use, and the health check configuration.

Type: ContainerServiceDeploymentRequest object

Required: No

power

The power specification for the container service.

The power specifies the amount of memory, vCPUs, and base monthly cost of each node of the container service. The `power` and `scale` of a container service makes up its configured capacity. To determine the monthly price of your container service, multiply the base price of the `power` with the `scale` (the number of nodes) of the service.

Use the `GetContainerServicePowers` action to get a list of power options that you can specify using this parameter, and their base monthly cost.

Type: String

Valid Values: `nano | micro | small | medium | large | xlarge`

Required: Yes

privateRegistryAccess

An object to describe the configuration for the container service to access private container image repositories, such as Amazon Elastic Container Registry (Amazon ECR) private repositories.

For more information, see Configuring access to an Amazon ECR private repository for an Amazon Lightsail container service in the *Amazon Lightsail Developer Guide*.

Type: PrivateRegistryAccessRequest object

Required: No

publicDomainNames

The public domain names to use with the container service, such as `example.com` and `www.example.com`.

You can specify up to four public domain names for a container service. The domain names that you specify are used when you create a deployment with a container configured as the public endpoint of your container service.

If you don't specify public domain names, then you can use the default domain of the container service.

> **Important**
>
> You must create and validate an SSL/TLS certificate before you can use public domain names with your container service. Use the `CreateCertificate` action to create a certificate for the public domain names you want to use with your container service.

You can specify public domain names using a string to array map as shown in the example later on this page.

Type: String to array of strings map

Required: No

scale

The scale specification for the container service.

The scale specifies the allocated compute nodes of the container service. The `power` and `scale` of a container service makes up its configured capacity. To determine the monthly price of your container service, multiply the base price of the `power` with the `scale` (the number of nodes) of the service.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: Yes

serviceName

The name for the container service.

The name that you specify for your container service will make up part of its default domain. The default domain of a container service is typically `https://<ServiceName>.<RandomGUID>.<AWSRegion>.cs.amazonlightsail.com`. If the name of your container service is `container-service-1`, and it's located in the US East (Ohio) AWS Region (`us-east-2`), then the domain for your container service will be like the following example: `https://container-service-1.ur4EXAMPLE2uq.us-east-2.cs.amazonlightsail.com`

The following are the requirements for container service names:

- Must be unique within each AWS Region in your Lightsail account.
- Must contain 1 to 63 characters.
- Must contain only alphanumeric characters and hyphens.
- A hyphen (-) can separate words but cannot be at the start or end of the name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: Yes

tags

The tag keys and optional values to add to the container service during create.

Use the `TagResource` action to tag a resource after it's created.

For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "containerService": {
      "arn": "string",
      "containerServiceName": "string",
      "createdAt": number,
      "currentDeployment": {
         "containers": {
            "string" : {
               "command": [ "string" ],
               "environment": {
                  "string" : "string"
               },
               "image": "string",
               "ports": {
                  "string" : "string"
               }
            }
         },
         "createdAt": number,
         "publicEndpoint": {
            "containerName": "string",
            "containerPort": number,
            "healthCheck": {
               "healthyThreshold": number,
               "intervalSeconds": number,
               "path": "string",
               "successCodes": "string",
               "timeoutSeconds": number,
               "unhealthyThreshold": number
```

```
            }
         },
         "state": "string",
         "version": number
      },
      "isDisabled": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "nextDeployment": {
         "containers": {
            "string" : {
               "command": [ "string" ],
               "environment": {
                  "string" : "string"
               },
               "image": "string",
               "ports": {
                  "string" : "string"
               }
            }
         },
         "createdAt": number,
         "publicEndpoint": {
            "containerName": "string",
            "containerPort": number,
            "healthCheck": {
               "healthyThreshold": number,
               "intervalSeconds": number,
               "path": "string",
               "successCodes": "string",
               "timeoutSeconds": number,
               "unhealthyThreshold": number
            }
         },
         "state": "string",
         "version": number
      },
      "power": "string",
      "powerId": "string",
      "principalArn": "string",
      "privateDomainName": "string",
      "privateRegistryAccess": {
```

```
            "ecrImagePullerRole": {
               "isActive": boolean,
               "principalArn": "string"
            }
         },
         "publicDomainNames": {
            "string" : [ "string" ]
         },
         "resourceType": "string",
         "scale": number,
         "state": "string",
         "stateDetail": {
            "code": "string",
            "message": "string"
         },
         "tags": [
            {
               "key": "string",
               "value": "string"
            }
         ],
         "url": "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.

containerService

An object that describes a container service.

Type: ContainerService object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

Examples

In the following example or examples, the Authorization header contents (`AUTHPARAMS`) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the *AWS General Reference*.

You need to learn how to sign HTTP requests only if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

Create container service

The following example creates a new container service named `container-service-1` in the `us-west-2` AWS Region. It also specifies the `example.com`, `applications.example.com`, `www.example.com`, and `containers.example.com` public domains of the `example-com` SSL/TLS certificate.

Sample Request

```
POST / HTTP/1.1
Host: lightsail.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: Lightsail_20161128.CreateContainerService
Content-Type: application/x-amz-json-1.1
User-Agent: AGENT
X-Amz-Date: 20201022T175000Z
Authorization: AUTHPARAMS
Content-Length: 195

{
    "serviceName": "container-service-1",
```

```
    "power": "nano",
    "scale": 1,
    "publicDomainNames": {
        "example-com": [
            "example.com",
            "applications.example.com",
            "www.example.com",
            "containers.example.com"
        ]
    }
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Thu, 22 Oct 2020 17:50:03 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 689
x-amzn-RequestId: 0459d37f-f6a7-4786-bc26-9EXAMPLEea99
Connection: keep-alive

{
    "containerService": {
        "arn": "arn:aws:lightsail:us-west-2:111122223333:ContainerService/9059c34a-
f681-482f-b41d-0EXAMPLEc85e",
        "containerServiceName": "container-service-1",
        "createdAt": 1.603389001E9,
        "isDisabled": false,
        "location": {
            "availabilityZone": "all",
            "regionName": "us-west-2"
        },
        "power": "nano",
        "powerId": "nano-1",
        "principalArn": "",
        "privateDomainName": "container-service-1.service.local",
        "publicDomainNames": {
            "example-com": [
                "example.com",
                "applications.example.com",
                "www.example.com",
                "containers.example.com"
```

```
            ]
        },
        "resourceType": "ContainerService",
        "scale": 1,
        "state": "PENDING",
        "tags": [],
        "url": "https://container-service-1.ur1EXAMPLE2uq.us-
west-2.cs.amazonlightsail.com/"
    }
}
```

See Also

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

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

CreateContainerServiceDeployment

Creates a deployment for your Amazon Lightsail container service.

A deployment specifies the containers that will be launched on the container service and their settings, such as the ports to open, the environment variables to apply, and the launch command to run. It also specifies the container that will serve as the public endpoint of the deployment and its settings, such as the HTTP or HTTPS port to use, and the health check configuration.

You can deploy containers to your container service using container images from a public registry such as Amazon ECR Public, or from your local machine. For more information, see Creating container images for your Amazon Lightsail container services in the *Amazon Lightsail Developer Guide*.

Request Syntax

```
{
   "containers": {
      "string" : {
         "command": [ "string" ],
         "environment": {
            "string" : "string"
         },
         "image": "string",
         "ports": {
            "string" : "string"
         }
      }
   },
   "publicEndpoint": {
      "containerName": "string",
      "containerPort": number,
      "healthCheck": {
         "healthyThreshold": number,
         "intervalSeconds": number,
         "path": "string",
         "successCodes": "string",
         "timeoutSeconds": number,
         "unhealthyThreshold": number
      }
   },
   "serviceName": "string"
```

```
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

containers

An object that describes the settings of the containers that will be launched on the container service.

Type: String to Container object map

Key Length Constraints: Minimum length of 1. Maximum length of 53.

Key Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: No

publicEndpoint

An object that describes the settings of the public endpoint for the container service.

Type: EndpointRequest object

Required: No

serviceName

The name of the container service for which to create the deployment.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: Yes

Response Syntax

```
{
   "containerService": {
```

```
        "arn": "string",
        "containerServiceName": "string",
        "createdAt": number,
        "currentDeployment": {
           "containers": {
              "string" : {
                 "command": [ "string" ],
                 "environment": {
                    "string" : "string"
                 },
                 "image": "string",
                 "ports": {
                    "string" : "string"
                 }
              }
           },
           "createdAt": number,
           "publicEndpoint": {
              "containerName": "string",
              "containerPort": number,
              "healthCheck": {
                 "healthyThreshold": number,
                 "intervalSeconds": number,
                 "path": "string",
                 "successCodes": "string",
                 "timeoutSeconds": number,
                 "unhealthyThreshold": number
              }
           },
           "state": "string",
           "version": number
        },
        "isDisabled": boolean,
        "location": {
           "availabilityZone": "string",
           "regionName": "string"
        },
        "nextDeployment": {
           "containers": {
              "string" : {
                 "command": [ "string" ],
                 "environment": {
                    "string" : "string"
                 },
```

```
                "image": "string",
                "ports": {
                   "string" : "string"
                }
             }
          },
          "createdAt": number,
          "publicEndpoint": {
             "containerName": "string",
             "containerPort": number,
             "healthCheck": {
                "healthyThreshold": number,
                "intervalSeconds": number,
                "path": "string",
                "successCodes": "string",
                "timeoutSeconds": number,
                "unhealthyThreshold": number
             }
          },
          "state": "string",
          "version": number
       },
       "power": "string",
       "powerId": "string",
       "principalArn": "string",
       "privateDomainName": "string",
       "privateRegistryAccess": {
          "ecrImagePullerRole": {
             "isActive": boolean,
             "principalArn": "string"
          }
       },
       "publicDomainNames": {
          "string" : [ "string" ]
       },
       "resourceType": "string",
       "scale": number,
       "state": "string",
       "stateDetail": {
          "code": "string",
          "message": "string"
       },
       "tags": [
          {
```

```
            "key": "string",
            "value": "string"
        }
    ],
    "url": "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.

containerService

An object that describes a container service.

Type: ContainerService object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateContainerServiceRegistryLogin

Creates a temporary set of log in credentials that you can use to log in to the Docker process on your local machine. After you're logged in, you can use the native Docker commands to push your local container images to the container image registry of your Amazon Lightsail account so that you can use them with your Lightsail container service. The log in credentials expire 12 hours after they are created, at which point you will need to create a new set of log in credentials.

> **Note**
>
> You can only push container images to the container service registry of your Lightsail account. You cannot pull container images or perform any other container image management actions on the container service registry.

After you push your container images to the container image registry of your Lightsail account, use the `RegisterContainerImage` action to register the pushed images to a specific Lightsail container service.

> **Note**
>
> This action is not required if you install and use the Lightsail Control (lightsailctl) plugin to push container images to your Lightsail container service. For more information, see Pushing and managing container images on your Amazon Lightsail container services in the *Amazon Lightsail Developer Guide*.

Response Syntax

```
{
   "registryLogin": {
      "expiresAt": number,
      "password": "string",
      "registry": "string",
      "username": "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.

registryLogin

An object that describes the log in information for the container service registry of your Lightsail account.

Type: ContainerServiceRegistryLogin object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateDisk

Creates a block storage disk that can be attached to an Amazon Lightsail instance in the same Availability Zone (`us-east-2a`).

The `create disk` operation supports tag-based access control via request tags. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "addOns": [
      {
         "addOnType": "string",
         "autoSnapshotAddOnRequest": {
            "snapshotTimeOfDay": "string"
         },
         "stopInstanceOnIdleRequest": {
            "duration": "string",
            "threshold": "string"
         }
      }
   ],
   "availabilityZone": "string",
   "diskName": "string",
   "sizeInGb": number,
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

addOns

An array of objects that represent the add-ons to enable for the new disk.

Type: Array of AddOnRequest objects

Required: No

availabilityZone

The Availability Zone where you want to create the disk (`us-east-2a`). Use the same Availability Zone as the Lightsail instance to which you want to attach the disk.

Use the `get regions` operation to list the Availability Zones where Lightsail is currently available.

Type: String

Pattern: `.*\S.*`

Required: Yes

diskName

The unique Lightsail disk name (`my-disk`).

Type: String

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

Required: Yes

sizeInGb

The size of the disk in GB (`32`).

Type: Integer

Required: Yes

tags

The tag keys and optional values to add to the resource during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateDiskFromSnapshot

Creates a block storage disk from a manual or automatic snapshot of a disk. The resulting disk can be attached to an Amazon Lightsail instance in the same Availability Zone (`us-east-2a`).

The `create disk from snapshot` operation supports tag-based access control via request tags and resource tags applied to the resource identified by `disk snapshot name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "addOns": [
      {
         "addOnType": "string",
         "autoSnapshotAddOnRequest": {
            "snapshotTimeOfDay": "string"
         },
         "stopInstanceOnIdleRequest": {
            "duration": "string",
            "threshold": "string"
         }
      }
   ],
   "availabilityZone": "string",
   "diskName": "string",
   "diskSnapshotName": "string",
   "restoreDate": "string",
   "sizeInGb": number,
   "sourceDiskName": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ],
   "useLatestRestorableAutoSnapshot": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

addOns

An array of objects that represent the add-ons to enable for the new disk.

Type: Array of AddOnRequest objects

Required: No

availabilityZone

The Availability Zone where you want to create the disk (`us-east-2a`). Choose the same Availability Zone as the Lightsail instance where you want to create the disk.

Use the GetRegions operation to list the Availability Zones where Lightsail is currently available.

Type: String

Pattern: `.*\S.*`

Required: Yes

diskName

The unique Lightsail disk name (`my-disk`).

Type: String

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

Required: Yes

diskSnapshotName

The name of the disk snapshot (`my-snapshot`) from which to create the new storage disk.

Constraint:

- This parameter cannot be defined together with the `source disk name` parameter. The `disk snapshot name` and `source disk name` parameters are mutually exclusive.

Type: String

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

Required: No

restoreDate

The date of the automatic snapshot to use for the new disk. Use the `get auto snapshots` operation to identify the dates of the available automatic snapshots.

Constraints:

- Must be specified in `YYYY-MM-DD` format.
- This parameter cannot be defined together with the `use latest restorable auto snapshot` parameter. The `restore date` and `use latest restorable auto snapshot` parameters are mutually exclusive.
- Define this parameter only when creating a new disk from an automatic snapshot. For more information, see the Amazon Lightsail Developer Guide.

Type: String

Required: No

sizeInGb

The size of the disk in GB (32).

Type: Integer

Required: Yes

sourceDiskName

The name of the source disk from which the source automatic snapshot was created.

Constraints:

- This parameter cannot be defined together with the `disk snapshot name` parameter. The `source disk name` and `disk snapshot name` parameters are mutually exclusive.
- Define this parameter only when creating a new disk from an automatic snapshot. For more information, see the Amazon Lightsail Developer Guide.

Type: String

Required: No

tags

The tag keys and optional values to add to the resource during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

useLatestRestorableAutoSnapshot

A Boolean value to indicate whether to use the latest available automatic snapshot.

Constraints:

- This parameter cannot be defined together with the `restore date` parameter. The `use latest restorable auto snapshot` and `restore date` parameters are mutually exclusive.
- Define this parameter only when creating a new disk from an automatic snapshot. For more information, see the Amazon Lightsail Developer Guide.

Type: Boolean

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
```

```
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateDiskSnapshot

Creates a snapshot of a block storage disk. You can use snapshots for backups, to make copies of disks, and to save data before shutting down a Lightsail instance.

You can take a snapshot of an attached disk that is in use; however, snapshots only capture data that has been written to your disk at the time the snapshot command is issued. This may exclude any data that has been cached by any applications or the operating system. If you can pause any file systems on the disk long enough to take a snapshot, your snapshot should be complete. Nevertheless, if you cannot pause all file writes to the disk, you should unmount the disk from within the Lightsail instance, issue the create disk snapshot command, and then remount the disk to ensure a consistent and complete snapshot. You may remount and use your disk while the snapshot status is pending.

You can also use this operation to create a snapshot of an instance's system volume. You might want to do this, for example, to recover data from the system volume of a botched instance or to create a backup of the system volume like you would for a block storage disk. To create a snapshot of a system volume, just define the `instance name` parameter when issuing the snapshot command, and a snapshot of the defined instance's system volume will be created. After the snapshot is available, you can create a block storage disk from the snapshot and attach it to a running instance to access the data on the disk.

The `create disk snapshot` operation supports tag-based access control via request tags. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "diskName": "string",
   "diskSnapshotName": "string",
   "instanceName": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

diskName

The unique name of the source disk (`Disk-Virginia-1`).

> **Note**
>
> This parameter cannot be defined together with the `instance name` parameter. The `disk name` and `instance name` parameters are mutually exclusive.

Type: String

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

Required: No

diskSnapshotName

The name of the destination disk snapshot (`my-disk-snapshot`) based on the source disk.

Type: String

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

Required: Yes

instanceName

The unique name of the source instance (`Amazon_Linux-512MB-Virginia-1`). When this is defined, a snapshot of the instance's system volume is created.

> **Note**
>
> This parameter cannot be defined together with the `disk name` parameter. The `instance name` and `disk name` parameters are mutually exclusive.

Type: String

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

Required: No

tags

The tag keys and optional values to add to the resource during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateDistribution

Creates an Amazon Lightsail content delivery network (CDN) distribution.

A distribution is a globally distributed network of caching servers that improve the performance of your website or web application hosted on a Lightsail instance. For more information, see Content delivery networks in Amazon Lightsail.

Request Syntax

```
{
   "bundleId": "string",
   "cacheBehaviors": [
      {
         "behavior": "string",
         "path": "string"
      }
   ],
   "cacheBehaviorSettings": {
      "allowedHTTPMethods": "string",
      "cachedHTTPMethods": "string",
      "defaultTTL": number,
      "forwardedCookies": {
         "cookiesAllowList": [ "string" ],
         "option": "string"
      },
      "forwardedHeaders": {
         "headersAllowList": [ "string" ],
         "option": "string"
      },
      "forwardedQueryStrings": {
         "option": boolean,
         "queryStringsAllowList": [ "string" ]
      },
      "maximumTTL": number,
      "minimumTTL": number
   },
   "certificateName": "string",
   "customErrorResponses": [
      {
         "errorCachingMinTTL": number,
         "errorCode": number,
         "responseCode": "string",
```

```
            "responsePagePath": "string"
        }
    ],
    "defaultCacheBehavior": {
        "behavior": "string"
    },
    "defaultRootObject": "string",
    "distributionName": "string",
    "enablePrivateOriginAccess": boolean,
    "ipAddressType": "string",
    "origin": {
        "ipAddressType": "string",
        "name": "string",
        "protocolPolicy": "string",
        "regionName": "string",
        "responseTimeout": number
    },
    "tags": [
        {
            "key": "string",
            "value": "string"
        }
    ],
    "viewerMinimumTlsProtocolVersion": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

bundleId

The bundle ID to use for the distribution.

A distribution bundle describes the specifications of your distribution, such as the monthly cost and monthly network transfer quota.

Use the `GetDistributionBundles` action to get a list of distribution bundle IDs that you can specify.

Type: String

Required: Yes

cacheBehaviors

An array of objects that describe the per-path cache behavior for the distribution.

Type: Array of CacheBehaviorPerPath objects

Required: No

cacheBehaviorSettings

An object that describes the cache behavior settings for the distribution.

Type: CacheSettings object

Required: No

certificateName

The name of the SSL/TLS certificate that you want to attach to the distribution.

Use the GetCertificates action to get a list of certificate names that you can specify.

Type: String

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

Required: No

customErrorResponses

An array of objects that describe the custom error responses for the distribution. With a custom error response, you can specify the page to return when the origin responds with a given HTTP error code. You can also specify the HTTP status code to send to the viewer.

Type: Array of DistributionCustomErrorResponse objects

Required: No

defaultCacheBehavior

An object that describes the default cache behavior for the distribution.

Type: CacheBehavior object

Required: Yes

defaultRootObject

The object (for example, `index.html`) that the distribution returns when a viewer requests the root URL of the distribution (/) instead of a specific object. The object that you specify must be available from the origin.

Type: String

Required: No

distributionName

The name for the distribution.

Type: String

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

Required: Yes

enablePrivateOriginAccess

Specifies whether to enable private origin access for the distribution. With private origin access, the distribution can serve objects that aren't publicly accessible from a Lightsail bucket.

Lightsail grants the distribution permission to read the bucket's objects. Enabling private origin access doesn't change the bucket's access settings, and you can still retrieve publicly accessible objects directly from the bucket's endpoint.

> **Note**
>
> You can enable private origin access only when the distribution's origin is a Lightsail bucket. If the origin is another resource type, the request fails.

Type: Boolean

Required: No

ipAddressType

The IP address type for the distribution.

The possible values are `ipv4` for IPv4 only, and `dualstack` for IPv4 and IPv6.

The default value is `dualstack`.

Type: String

Valid Values: `dualstack | ipv4 | ipv6`

Required: No

origin

An object that describes the origin resource for the distribution, such as a Lightsail instance, bucket, or load balancer.

The distribution pulls, caches, and serves content from the origin.

Type: InputOrigin object

Required: Yes

tags

The tag keys and optional values to add to the distribution during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

viewerMinimumTlsProtocolVersion

The minimum TLS protocol version for the SSL/TLS certificate.

Type: String

Valid Values: `TLSv1.1_2016 | TLSv1.2_2018 | TLSv1.2_2019 | TLSv1.2_2021`

Required: No

Response Syntax

```
{
   "distribution": {
      "ableToUpdateBundle": boolean,
      "alternativeDomainNames": [ "string" ],
      "arn": "string",
```

```
        "bundleId": "string",
        "cacheBehaviors": [
           {
              "behavior": "string",
              "path": "string"
           }
        ],
        "cacheBehaviorSettings": {
           "allowedHTTPMethods": "string",
           "cachedHTTPMethods": "string",
           "defaultTTL": number,
           "forwardedCookies": {
              "cookiesAllowList": [ "string" ],
              "option": "string"
           },
           "forwardedHeaders": {
              "headersAllowList": [ "string" ],
              "option": "string"
           },
           "forwardedQueryStrings": {
              "option": boolean,
              "queryStringsAllowList": [ "string" ]
           },
           "maximumTTL": number,
           "minimumTTL": number
        },
        "certificateName": "string",
        "createdAt": number,
        "customErrorResponses": [
           {
              "errorCachingMinTTL": number,
              "errorCode": number,
              "responseCode": "string",
              "responsePagePath": "string"
           }
        ],
        "defaultCacheBehavior": {
           "behavior": "string"
        },
        "defaultRootObject": "string",
        "domainName": "string",
        "ipAddressType": "string",
        "isEnabled": boolean,
        "location": {
```

```
            "availabilityZone": "string",
            "regionName": "string"
        },
        "name": "string",
        "origin": {
            "ipAddressType": "string",
            "isPrivateOriginAccessEnabled": boolean,
            "name": "string",
            "protocolPolicy": "string",
            "regionName": "string",
            "resourceType": "string",
            "responseTimeout": number
        },
        "originPublicDNS": "string",
        "resourceType": "string",
        "status": "string",
        "supportCode": "string",
        "tags": [
            {
                "key": "string",
                "value": "string"
            }
        ],
        "viewerMinimumTlsProtocolVersion": "string"
    },
    "operation": {
        "createdAt": number,
        "errorCode": "string",
        "errorDetails": "string",
        "id": "string",
        "isTerminal": boolean,
        "location": {
            "availabilityZone": "string",
            "regionName": "string"
        },
        "operationDetails": "string",
        "operationType": "string",
        "resourceName": "string",
        "resourceType": "string",
        "status": "string",
        "statusChangedAt": 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.

distribution

An object that describes the distribution created.

Type: LightsailDistribution object

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateDomain

Creates a domain resource for the specified domain (example.com).

The `create domain` operation supports tag-based access control via request tags. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "domainName": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

domainName

The domain name to manage (`example.com`).

Type: String

Required: Yes

tags

The tag keys and optional values to add to the resource during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
      "resourceName": "string",
      "resourceType": "string",
      "status": "string",
      "statusChangedAt": 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.

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateDomainEntry

Creates one of the following domain name system (DNS) records in a domain DNS zone: Address (A), canonical name (CNAME), mail exchanger (MX), name server (NS), start of authority (SOA), service locator (SRV), or text (TXT).

The `create domain entry` operation supports tag-based access control via resource tags applied to the resource identified by `domain name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "domainEntry": {
      "id": "string",
      "isAlias": boolean,
      "name": "string",
      "options": {
         "string" : "string"
      },
      "target": "string",
      "type": "string"
   },
   "domainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

domainEntry

An array of key-value pairs containing information about the domain entry request.

Type: DomainEntry object

Required: Yes

domainName

The domain name (`example.com`) for which you want to create the domain entry.

Type: String

Required: Yes

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
      "resourceName": "string",
      "resourceType": "string",
      "status": "string",
      "statusChangedAt": 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.

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateGUISessionAccessDetails

Creates two URLs that are used to access a virtual computer's graphical user interface (GUI) session. The primary URL initiates a web-based Amazon DCV session to the virtual computer's application. The secondary URL initiates a web-based Amazon DCV session to the virtual computer's operating session.

Use `StartGUISession` to open the session.

Request Syntax

```
{
   "resourceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

resourceName

The resource name.

Type: String

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

Required: Yes

Response Syntax

```
{
   "failureReason": "string",
   "percentageComplete": number,
   "resourceName": "string",
   "sessions": [
      {
```

```
            "isPrimary": boolean,
            "name": "string",
            "url": "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.

failureReason

The reason the operation failed.

Type: String

percentageComplete

The percentage of completion for the operation.

Type: Integer

resourceName

The resource name.

Type: String

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

sessions

Returns information about the specified Amazon DCV GUI session.

Type: Array of Session objects

status

The status of the operation.

Type: String

Valid Values: `startExpired | notStarted | started | starting | stopped | stopping | settingUpInstance | failedInstanceCreation | failedStartingGUISession | failedStoppingGUISession`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateInstances

Creates one or more Amazon Lightsail instances.

The `create instances` operation supports tag-based access control via request tags. For more information, see the Lightsail Developer Guide.

Request Syntax

```
{
   "addOns": [
      {
         "addOnType": "string",
         "autoSnapshotAddOnRequest": {
            "snapshotTimeOfDay": "string"
         },
         "stopInstanceOnIdleRequest": {
            "duration": "string",
            "threshold": "string"
         }
      }
   ],
   "availabilityZone": "string",
   "blueprintId": "string",
   "bundleId": "string",
   "customImageName": "string",
   "instanceNames": [ "string" ],
   "ipAddressType": "string",
   "keyPairName": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ],
   "userData": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

addOns

An array of objects representing the add-ons to enable for the new instance.

Type: Array of AddOnRequest objects

Required: No

availabilityZone

The Availability Zone in which to create your instance. Use the following format: `us-east-2a` (case sensitive). You can get a list of Availability Zones by using the get regions operation. Be sure to add the `include Availability Zones` parameter to your request.

Type: String

Required: Yes

blueprintId

The ID for a virtual private server image (`app_wordpress_x_x` or `app_lamp_x_x`). Use the `get blueprints` operation to return a list of available images (or *blueprints*).

> **Note**
>
> Use active blueprints when creating new instances. Inactive blueprints are listed to support customers with existing instances and are not necessarily available to create new instances. Blueprints are marked inactive when they become outdated due to operating system updates or new application releases.

Type: String

Pattern: `.*\S.*`

Required: Yes

bundleId

The bundle of specification information for your virtual private server (or *instance*), including the pricing plan (`medium_x_x`).

Type: String

Pattern: `.*\S.*`

Required: Yes

customImageName

This parameter has been deprecated.

(Discontinued) The name for your custom image.

> **Note**
>
> In releases prior to June 12, 2017, this parameter was ignored by the API. It is now discontinued.

Type: String

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

Required: No

instanceNames

The names to use for your new Lightsail instances. Separate multiple values using quotation marks and commas, for example: `["MyFirstInstance","MySecondInstance"]`

Type: Array of strings

Required: Yes

ipAddressType

The IP address type for the instance.

The possible values are `ipv4` for IPv4 only, `ipv6` for IPv6 only, and `dualstack` for IPv4 and IPv6.

The default value is `dualstack`.

Type: String

Valid Values: `dualstack | ipv4 | ipv6`

Required: No

keyPairName

The name of your key pair.

Type: String

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

Required: No

tags

The tag keys and optional values to add to the resource during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

userData

A launch script you can create that configures a server with additional user data. For example, you might want to run `apt-get -y update`.

> **Note**
>
> Depending on the machine image you choose, the command to get software on your instance varies. Amazon Linux and CentOS use `yum`, Debian and Ubuntu use `apt-get`, and FreeBSD uses `pkg`. For a complete list, see the Amazon Lightsail Developer Guide.

Type: String

Required: No

Response Syntax

```
{
   "operations": [
      {
```

```
            "createdAt": number,
            "errorCode": "string",
            "errorDetails": "string",
            "id": "string",
            "isTerminal": boolean,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateInstancesFromSnapshot

Creates one or more new instances from a manual or automatic snapshot of an instance.

The `create instances from snapshot` operation supports tag-based access control via request tags and resource tags applied to the resource identified by `instance snapshot name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "addOns": [
      {
         "addOnType": "string",
         "autoSnapshotAddOnRequest": {
            "snapshotTimeOfDay": "string"
         },
         "stopInstanceOnIdleRequest": {
            "duration": "string",
            "threshold": "string"
         }
      }
   ],
   "attachedDiskMapping": {
      "string" : [
         {
            "newDiskName": "string",
            "originalDiskPath": "string"
         }
      ]
   },
   "availabilityZone": "string",
   "bundleId": "string",
   "instanceNames": [ "string" ],
   "instanceSnapshotName": "string",
   "ipAddressType": "string",
   "keyPairName": "string",
   "restoreDate": "string",
   "sourceInstanceName": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
```

```
        }
    ],
    "useLatestRestorableAutoSnapshot": boolean,
    "userData": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

addOns

An array of objects representing the add-ons to enable for the new instance.

Type: Array of AddOnRequest objects

Required: No

attachedDiskMapping

An object containing information about one or more disk mappings.

Type: String to array of DiskMap objects map

Key Pattern: `\w[\w\-]*\w`

Required: No

availabilityZone

The Availability Zone where you want to create your instances. Use the following formatting: `us-east-2a` (case sensitive). You can get a list of Availability Zones by using the get regions operation. Be sure to add the `include Availability Zones` parameter to your request.

Type: String

Required: Yes

bundleId

The bundle of specification information for your virtual private server (or *instance*), including the pricing plan (`micro_x_x`).

Type: String

Pattern: `.*\S.*`

Required: Yes

instanceNames

The names for your new instances.

Type: Array of strings

Required: Yes

instanceSnapshotName

The name of the instance snapshot on which you are basing your new instances. Use the get instance snapshots operation to return information about your existing snapshots.

Constraint:

- This parameter cannot be defined together with the `source instance name` parameter. The `instance snapshot name` and `source instance name` parameters are mutually exclusive.

Type: String

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

Required: No

ipAddressType

The IP address type for the instance.

The possible values are `ipv4` for IPv4 only, `ipv6` for IPv6 only, and `dualstack` for IPv4 and IPv6.

The default value is `dualstack`.

Type: String

Valid Values: `dualstack | ipv4 | ipv6`

Required: No

keyPairName

The name for your key pair.

Type: String

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

Required: No

restoreDate

The date of the automatic snapshot to use for the new instance. Use the `get auto snapshots` operation to identify the dates of the available automatic snapshots.

Constraints:

- Must be specified in `YYYY-MM-DD` format.
- This parameter cannot be defined together with the `use latest restorable auto snapshot` parameter. The `restore date` and `use latest restorable auto snapshot` parameters are mutually exclusive.
- Define this parameter only when creating a new instance from an automatic snapshot. For more information, see the Amazon Lightsail Developer Guide.

Type: String

Required: No

sourceInstanceName

The name of the source instance from which the source automatic snapshot was created.

Constraints:

- This parameter cannot be defined together with the `instance snapshot name` parameter. The `source instance name` and `instance snapshot name` parameters are mutually exclusive.
- Define this parameter only when creating a new instance from an automatic snapshot. For more information, see the Amazon Lightsail Developer Guide.

Type: String

Required: No

tags

The tag keys and optional values to add to the resource during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

useLatestRestorableAutoSnapshot

A Boolean value to indicate whether to use the latest available automatic snapshot.

Constraints:

- This parameter cannot be defined together with the `restore date` parameter. The `use latest restorable auto snapshot` and `restore date` parameters are mutually exclusive.
- Define this parameter only when creating a new instance from an automatic snapshot. For more information, see the Amazon Lightsail Developer Guide.

Type: Boolean

Required: No

userData

You can create a launch script that configures a server with additional user data. For example, `apt-get -y update`.

> **Note**
>
> Depending on the machine image you choose, the command to get software on your instance varies. Amazon Linux and CentOS use `yum`, Debian and Ubuntu use `apt-get`, and FreeBSD uses `pkg`. For a complete list, see the Amazon Lightsail Developer Guide.

Type: String

Required: No

Response Syntax

```
{
   "operations": [
      {
```

```
            "createdAt": number,
            "errorCode": "string",
            "errorDetails": "string",
            "id": "string",
            "isTerminal": boolean,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateInstanceSnapshot

Creates a snapshot of a specific virtual private server, or *instance*. You can use a snapshot to create a new instance that is based on that snapshot.

The `create instance snapshot` operation supports tag-based access control via request tags. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "instanceName": "string",
   "instanceSnapshotName": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceName

The Lightsail instance on which to base your snapshot.

Type: String

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

Required: Yes

instanceSnapshotName

The name for your new snapshot.

Type: String

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

Required: Yes

tags

The tag keys and optional values to add to the resource during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateKeyPair

Creates a custom SSH key pair that you can use with an Amazon Lightsail instance.

> **Note**
>
> Use the DownloadDefaultKeyPair action to create a Lightsail default key pair in an AWS Region where a default key pair does not currently exist.

The `create key pair` operation supports tag-based access control via request tags. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "keyPairName": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

keyPairName

The name for your new key pair.

Type: String

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

Required: Yes

tags

The tag keys and optional values to add to the resource during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "keyPair": {
      "arn": "string",
      "createdAt": number,
      "fingerprint": "string",
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "name": "string",
      "resourceType": "string",
      "supportCode": "string",
      "tags": [
         {
            "key": "string",
            "value": "string"
         }
      ]
   },
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
```

```
        "resourceName": "string",
        "resourceType": "string",
        "status": "string",
        "statusChangedAt": number
    },
    "privateKeyBase64": "string",
    "publicKeyBase64": "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.

keyPair

An array of key-value pairs containing information about the new key pair you just created.

Type: KeyPair object

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

privateKeyBase64

A base64-encoded RSA private key.

Type: String

publicKeyBase64

A base64-encoded public key of the `ssh-rsa` type.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateLoadBalancer

Creates a Lightsail load balancer. To learn more about deciding whether to load balance your application, see Configure your Lightsail instances for load balancing. You can create up to 10 load balancers per AWS Region in your account.

When you create a load balancer, you can specify a unique name and port settings. To change additional load balancer settings, use the `UpdateLoadBalancerAttribute` operation.

The `create load balancer` operation supports tag-based access control via request tags. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "certificateAlternativeNames": [ "string" ],
   "certificateDomainName": "string",
   "certificateName": "string",
   "healthCheckPath": "string",
   "instancePort": number,
   "ipAddressType": "string",
   "loadBalancerName": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ],
   "tlsPolicyName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

certificateAlternativeNames

The optional alternative domains and subdomains to use with your SSL/TLS certificate (`www.example.com`, `example.com`, `m.example.com`, `blog.example.com`).

Type: Array of strings

Required: No

certificateDomainName

The domain name with which your certificate is associated (`example.com`).

If you specify `certificateDomainName`, then `certificateName` is required (and vice-versa).

Type: String

Required: No

certificateName

The name of the SSL/TLS certificate.

If you specify `certificateName`, then `certificateDomainName` is required (and vice-versa).

Type: String

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

Required: No

healthCheckPath

The path you provided to perform the load balancer health check. If you didn't specify a health check path, Lightsail uses the root path of your website (`"/"`).

You may want to specify a custom health check path other than the root of your application if your home page loads slowly or has a lot of media or scripting on it.

Type: String

Required: No

instancePort

The instance port where you're creating your load balancer.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 65535.

Required: Yes

ipAddressType

The IP address type for the load balancer.

The possible values are `ipv4` for IPv4 only, `ipv6` for IPv6 only, and `dualstack` for IPv4 and IPv6.

The default value is `dualstack`.

Type: String

Valid Values: `dualstack | ipv4 | ipv6`

Required: No

loadBalancerName

The name of your load balancer.

Type: String

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

Required: Yes

tags

The tag keys and optional values to add to the resource during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

tlsPolicyName

The name of the TLS policy to apply to the load balancer.

Use the GetLoadBalancerTlsPolicies action to get a list of TLS policy names that you can specify.

For more information about load balancer TLS policies, see Configuring TLS security policies on your Amazon Lightsail load balancers in the *Amazon Lightsail Developer Guide*.

Type: String

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateLoadBalancerTlsCertificate

Creates an SSL/TLS certificate for an Amazon Lightsail load balancer.

TLS is just an updated, more secure version of Secure Socket Layer (SSL).

The `CreateLoadBalancerTlsCertificate` operation supports tag-based access control via resource tags applied to the resource identified by `load balancer name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "certificateAlternativeNames": [ "string" ],
   "certificateDomainName": "string",
   "certificateName": "string",
   "loadBalancerName": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

certificateAlternativeNames

An array of strings listing alternative domains and subdomains for your SSL/TLS certificate. Lightsail will de-dupe the names for you. You can have a maximum of 9 alternative names (in addition to the 1 primary domain). We do not support wildcards (`*.example.com`).

Type: Array of strings

Required: No

certificateDomainName

The domain name (`example.com`) for your SSL/TLS certificate.

Type: String

Required: Yes

certificateName

The SSL/TLS certificate name.

You can have up to 10 certificates in your account at one time. Each Lightsail load balancer can have up to 2 certificates associated with it at one time. There is also an overall limit to the number of certificates that can be issue in a 365-day period. For more information, see Limits.

Type: String

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

Required: Yes

loadBalancerName

The load balancer name where you want to create the SSL/TLS certificate.

Type: String

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

Required: Yes

tags

The tag keys and optional values to add to the resource during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
```

```
    "operations": [
       {
          "createdAt": number,
          "errorCode": "string",
          "errorDetails": "string",
          "id": "string",
          "isTerminal": boolean,
          "location": {
             "availabilityZone": "string",
             "regionName": "string"
          },
          "operationDetails": "string",
          "operationType": "string",
          "resourceName": "string",
          "resourceType": "string",
          "status": "string",
          "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateRelationalDatabase

Creates a new database in Amazon Lightsail.

The `create relational database` operation supports tag-based access control via request tags. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "availabilityZone": "string",
   "masterDatabaseName": "string",
   "masterUsername": "string",
   "masterUserPassword": "string",
   "preferredBackupWindow": "string",
   "preferredMaintenanceWindow": "string",
   "publiclyAccessible": boolean,
   "relationalDatabaseBlueprintId": "string",
   "relationalDatabaseBundleId": "string",
   "relationalDatabaseName": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

availabilityZone

The Availability Zone in which to create your new database. Use the `us-east-2a` case-sensitive format.

You can get a list of Availability Zones by using the `get regions` operation. Be sure to add the `include relational database Availability Zones` parameter to your request.

Type: String

Required: No

masterDatabaseName

The meaning of this parameter differs according to the database engine you use.

MySQL

The name of the database to create when the Lightsail database resource is created. If this parameter isn't specified, no database is created in the database resource.

Constraints:

- Must contain 1 to 64 letters or numbers.
- Must begin with a letter. Subsequent characters can be letters, underscores, or digits (0- 9).
- Can't be a word reserved by the specified database engine.

  For more information about reserved words in MySQL, see the Keywords and Reserved Words articles for MySQL 5.6, MySQL 5.7, and MySQL 8.0.

PostgreSQL

The name of the database to create when the Lightsail database resource is created. If this parameter isn't specified, a database named `postgres` is created in the database resource.

Constraints:

- Must contain 1 to 63 letters or numbers.
- Must begin with a letter. Subsequent characters can be letters, underscores, or digits (0- 9).
- Can't be a word reserved by the specified database engine.

  For more information about reserved words in PostgreSQL, see the SQL Key Words articles for PostgreSQL 9.6, PostgreSQL 10, PostgreSQL 11, and PostgreSQL 12.

Type: String

Required: Yes

masterUsername

The name for the master user.

MySQL

Constraints:

- Required for MySQL.
- Must be 1 to 16 letters or numbers. Can contain underscores.
- First character must be a letter.
- Can't be a reserved word for the chosen database engine.

  For more information about reserved words in MySQL 5.6 or 5.7, see the Keywords and Reserved Words articles for MySQL 5.6, MySQL 5.7, or MySQL 8.0.

PostgreSQL

Constraints:

- Required for PostgreSQL.
- Must be 1 to 63 letters or numbers. Can contain underscores.
- First character must be a letter.
- Can't be a reserved word for the chosen database engine.

  For more information about reserved words in MySQL 5.6 or 5.7, see the Keywords and Reserved Words articles for PostgreSQL 9.6, PostgreSQL 10, PostgreSQL 11, and PostgreSQL 12.

Type: String

Required: Yes

masterUserPassword

The password for the master user. The password can include any printable ASCII character except "/", """, or "@". It cannot contain spaces.

MySQL

Constraints: Must contain from 8 to 41 characters.

PostgreSQL

Constraints: Must contain from 8 to 128 characters.

Type: String

Required: No

preferredBackupWindow

The daily time range during which automated backups are created for your new database if automated backups are enabled.

The default is a 30-minute window selected at random from an 8-hour block of time for each AWS Region. For more information about the preferred backup window time blocks for each region, see the Working With Backups guide in the Amazon Relational Database Service documentation.

Constraints:

- Must be in the `hh24:mi-hh24:mi` format.

  Example: `16:00-16:30`
- Specified in Coordinated Universal Time (UTC).
- Must not conflict with the preferred maintenance window.
- Must be at least 30 minutes.

Type: String

Required: No

preferredMaintenanceWindow

The weekly time range during which system maintenance can occur on your new database.

The default is a 30-minute window selected at random from an 8-hour block of time for each AWS Region, occurring on a random day of the week.

Constraints:

- Must be in the `ddd:hh24:mi-ddd:hh24:mi` format.
- Valid days: Mon, Tue, Wed, Thu, Fri, Sat, Sun.
- Must be at least 30 minutes.
- Specified in Coordinated Universal Time (UTC).
- Example: `Tue:17:00-Tue:17:30`

Type: String

Required: No

publicly Accessible

Specifies the accessibility options for your new database. A value of `true` specifies a database that is available to resources outside of your Lightsail account. A value of `false` specifies a database that is available only to your Lightsail resources in the same region as your database.

Type: Boolean

Required: No

relationalDatabaseBlueprintId

The blueprint ID for your new database. A blueprint describes the major engine version of a database.

You can get a list of database blueprints IDs by using the `get relational database blueprints` operation.

Type: String

Required: Yes

relationalDatabaseBundleId

The bundle ID for your new database. A bundle describes the performance specifications for your database.

You can get a list of database bundle IDs by using the `get relational database bundles` operation.

Type: String

Required: Yes

relationalDatabaseName

The name to use for your new Lightsail database resource.

Constraints:

- Must contain from 2 to 255 alphanumeric characters, or hyphens.
- The first and last character must be a letter or number.

Type: String

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

Required: Yes

tags

The tag keys and optional values to add to the resource during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateRelationalDatabaseFromSnapshot

Creates a new database from an existing database snapshot in Amazon Lightsail.

You can create a new database from a snapshot in if something goes wrong with your original database, or to change it to a different plan, such as a high availability or standard plan.

The `create relational database from snapshot` operation supports tag-based access control via request tags and resource tags applied to the resource identified by relationalDatabaseSnapshotName. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "availabilityZone": "string",
   "publiclyAccessible": boolean,
   "relationalDatabaseBundleId": "string",
   "relationalDatabaseName": "string",
   "relationalDatabaseSnapshotName": "string",
   "restoreTime": number,
   "sourceRelationalDatabaseName": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ],
   "useLatestRestorableTime": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

availabilityZone

The Availability Zone in which to create your new database. Use the `us-east-2a` case-sensitive format.

You can get a list of Availability Zones by using the `get regions` operation. Be sure to add the `include relational database Availability Zones` parameter to your request.

Type: String

Required: No

publiclyAccessible

Specifies the accessibility options for your new database. A value of `true` specifies a database that is available to resources outside of your Lightsail account. A value of `false` specifies a database that is available only to your Lightsail resources in the same region as your database.

Type: Boolean

Required: No

relationalDatabaseBundleId

The bundle ID for your new database. A bundle describes the performance specifications for your database.

You can get a list of database bundle IDs by using the `get relational database bundles` operation.

When creating a new database from a snapshot, you cannot choose a bundle that is smaller than the bundle of the source database.

Type: String

Required: No

relationalDatabaseName

The name to use for your new Lightsail database resource.

Constraints:

- Must contain from 2 to 255 alphanumeric characters, or hyphens.
- The first and last character must be a letter or number.

Type: String

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

Required: Yes

relationalDatabaseSnapshotName

The name of the database snapshot from which to create your new database.

Type: String

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

Required: No

restoreTime

The date and time to restore your database from.

Constraints:

- Must be before the latest restorable time for the database.
- Cannot be specified if the `use latest restorable time` parameter is `true`.
- Specified in Coordinated Universal Time (UTC).
- Specified in the Unix time format.

  For example, if you wish to use a restore time of October 1, 2018, at 8 PM UTC, then you input `1538424000` as the restore time.

Type: Timestamp

Required: No

sourceRelationalDatabaseName

The name of the source database.

Type: String

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

Required: No

tags

The tag keys and optional values to add to the resource during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

useLatestRestorableTime

Specifies whether your database is restored from the latest backup time. A value of `true` restores from the latest backup time.

Default: `false`

Constraints: Cannot be specified if the `restore time` parameter is provided.

Type: Boolean

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

CreateRelationalDatabaseSnapshot

Creates a snapshot of your database in Amazon Lightsail. You can use snapshots for backups, to make copies of a database, and to save data before deleting a database.

The `create relational database snapshot` operation supports tag-based access control via request tags. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "relationalDatabaseName": "string",
   "relationalDatabaseSnapshotName": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

relationalDatabaseName

The name of the database on which to base your new snapshot.

Type: String

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

Required: Yes

relationalDatabaseSnapshotName

The name for your new database snapshot.

Constraints:

- Must contain from 2 to 255 alphanumeric characters, or hyphens.
- The first and last character must be a letter or number.

Type: String

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

Required: Yes

tags

The tag keys and optional values to add to the resource during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteAlarm

Deletes an alarm.

An alarm is used to monitor a single metric for one of your resources. When a metric condition is met, the alarm can notify you by email, SMS text message, and a banner displayed on the Amazon Lightsail console. For more information, see Alarms in Amazon Lightsail.

Request Syntax

```
{
   "alarmName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

alarmName

The name of the alarm to delete.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
```

```
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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

DeleteAutoSnapshot

Deletes an automatic snapshot of an instance or disk. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "date": "string",
   "resourceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

date

The date of the automatic snapshot to delete in `YYYY-MM-DD` format. Use the `get auto snapshots` operation to get the available automatic snapshots for a resource.

Type: String

Pattern: `^[0-9]{4}-[0-9]{2}-[0-9]{2}$`

Required: Yes

resourceName

The name of the source instance or disk from which to delete the automatic snapshot.

Type: String

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

Required: Yes

Response Syntax

```
{
```

```
    "operations": [
       {
          "createdAt": number,
          "errorCode": "string",
          "errorDetails": "string",
          "id": "string",
          "isTerminal": boolean,
          "location": {
             "availabilityZone": "string",
             "regionName": "string"
          },
          "operationDetails": "string",
          "operationType": "string",
          "resourceName": "string",
          "resourceType": "string",
          "status": "string",
          "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

DeleteBucket

Deletes a Amazon Lightsail bucket.

> **Note**
>
> When you delete your bucket, the bucket name is released and can be reused for a new bucket in your account or another AWS account.

Request Syntax

```
{
   "bucketName": "string",
   "forceDelete": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

bucketName

The name of the bucket to delete.

Use the GetBuckets action to get a list of bucket names that you can specify.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 54.

Pattern: `^[a-z0-9][a-z0-9-]{1,52}[a-z0-9]$`

Required: Yes

forceDelete

A Boolean value that indicates whether to force delete the bucket.

You must force delete the bucket if it has one of the following conditions:

- The bucket is the origin of a distribution.
- The bucket has instances that were granted access to it using the SetResourceAccessForBucket action.
- The bucket has objects.
- The bucket has access keys.

> **Important**
>
> Force deleting a bucket might impact other resources that rely on the bucket, such as instances, distributions, or software that use the issued access keys.

Type: Boolean

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

DeleteBucketAccessKey

Deletes an access key for the specified Amazon Lightsail bucket.

We recommend that you delete an access key if the secret access key is compromised.

For more information about access keys, see Creating access keys for a bucket in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

Request Syntax

```
{
   "accessKeyId": "string",
   "bucketName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

accessKeyId

The ID of the access key to delete.

Use the GetBucketAccessKeys action to get a list of access key IDs that you can specify.

Type: String

Pattern: `.*\S.*`

Required: Yes

bucketName

The name of the bucket that the access key belongs to.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 54.

Pattern: `^[a-z0-9][a-z0-9-]{1,52}[a-z0-9]$`

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteCertificate

Deletes an SSL/TLS certificate for your Amazon Lightsail content delivery network (CDN) distribution.

Certificates that are currently attached to a distribution cannot be deleted. Use the `DetachCertificateFromDistribution` action to detach a certificate from a distribution.

Request Syntax

```
{
   "certificateName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

certificateName

The name of the certificate to delete.

Use the `GetCertificates` action to get a list of certificate names that you can specify.

Type: String

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
```

```
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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HTTP Status Code: 400

ServiceException

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HTTP Status Code: 500

UnauthenticatedException

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HTTP Status Code: 400

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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DeleteContactMethod

Deletes a contact method.

A contact method is used to send you notifications about your Amazon Lightsail resources. You can add one email address and one mobile phone number contact method in each AWS Region. However, SMS text messaging is not supported in some AWS Regions, and SMS text messages cannot be sent to some countries/regions. For more information, see Notifications in Amazon Lightsail.

Request Syntax

```
{
   "protocol": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

protocol

The protocol that will be deleted, such as `Email` or `SMS` (text messaging).

> **Note**
>
> To delete an `Email` and an `SMS` contact method if you added both, you must run separate `DeleteContactMethod` actions to delete each protocol.

Type: String

Valid Values: `Email` | `SMS`

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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

DeleteContainerImage

Deletes a container image that is registered to your Amazon Lightsail container service.

Request Syntax

```
{
   "image": "string",
   "serviceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

image

The name of the container image to delete from the container service.

Use the `GetContainerImages` action to get the name of the container images that are registered to a container service.

> **Note**
>
> Container images sourced from your Lightsail container service, that are registered and stored on your service, start with a colon (`:`). For example, `:container-service-1.mystaticwebsite.1`. Container images sourced from a public registry like Docker Hub don't start with a colon. For example, `nginx:latest` or `nginx`.

Type: String

Required: Yes

serviceName

The name of the container service for which to delete a registered container image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: Yes

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

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

DeleteContainerService

Deletes your Amazon Lightsail container service.

Request Syntax

```
{
   "serviceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

serviceName

The name of the container service to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: Yes

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

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

DeleteDisk

Deletes the specified block storage disk. The disk must be in the `available` state (not attached to a Lightsail instance).

> **Note**
>
> The disk may remain in the `deleting` state for several minutes.

The `delete disk` operation supports tag-based access control via resource tags applied to the resource identified by `disk name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "diskName": "string",
   "forceDeleteAddOns": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

diskName

The unique name of the disk you want to delete (`my-disk`).

Type: String

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

Required: Yes

forceDeleteAddOns

A Boolean value to indicate whether to delete all add-ons for the disk.

Type: Boolean

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

DeleteDiskSnapshot

Deletes the specified disk snapshot.

When you make periodic snapshots of a disk, the snapshots are incremental, and only the blocks on the device that have changed since your last snapshot are saved in the new snapshot. When you delete a snapshot, only the data not needed for any other snapshot is removed. So regardless of which prior snapshots have been deleted, all active snapshots will have access to all the information needed to restore the disk.

The `delete disk snapshot` operation supports tag-based access control via resource tags applied to the resource identified by `disk snapshot name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "diskSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

diskSnapshotName

The name of the disk snapshot you want to delete (`my-disk-snapshot`).

Type: String

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

Required: Yes

Response Syntax

```
{
```

```
    "operations": [
       {
          "createdAt": number,
          "errorCode": "string",
          "errorDetails": "string",
          "id": "string",
          "isTerminal": boolean,
          "location": {
             "availabilityZone": "string",
             "regionName": "string"
          },
          "operationDetails": "string",
          "operationType": "string",
          "resourceName": "string",
          "resourceType": "string",
          "status": "string",
          "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

DeleteDistribution

Deletes your Amazon Lightsail content delivery network (CDN) distribution.

Request Syntax

```
{
   "distributionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

distributionName

The name of the distribution to delete.

Use the `GetDistributions` action to get a list of distribution names that you can specify.

Type: String

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

Required: No

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
```

```
        "operationType": "string",
        "resourceName": "string",
        "resourceType": "string",
        "status": "string",
        "statusChangedAt": 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.

operation

An object that describes the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

DeleteDomain

Deletes the specified domain recordset and all of its domain records.

The `delete domain` operation supports tag-based access control via resource tags applied to the resource identified by `domain name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "domainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

domainName

The specific domain name to delete.

Type: String

Required: Yes

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
```

```
        "operationDetails": "string",
        "operationType": "string",
        "resourceName": "string",
        "resourceType": "string",
        "status": "string",
        "statusChangedAt": 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.

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

DeleteDomainEntry

Deletes a specific domain entry.

The `delete domain entry` operation supports tag-based access control via resource tags applied to the resource identified by `domain name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "domainEntry": {
      "id": "string",
      "isAlias": boolean,
      "name": "string",
      "options": {
         "string" : "string"
      },
      "target": "string",
      "type": "string"
   },
   "domainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

domainEntry

An array of key-value pairs containing information about your domain entries.

Type: DomainEntry object

Required: Yes

domainName

The name of the domain entry to delete.

Type: String

Required: Yes

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
      "resourceName": "string",
      "resourceType": "string",
      "status": "string",
      "statusChangedAt": 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.

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

DeleteInstance

Deletes an Amazon Lightsail instance.

The `delete instance` operation supports tag-based access control via resource tags applied to the resource identified by `instance name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "forceDeleteAddOns": boolean,
   "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

forceDeleteAddOns

A Boolean value to indicate whether to delete all add-ons for the instance.

Type: Boolean

Required: No

instanceName

The name of the instance to delete.

Type: String

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

Required: Yes

Response Syntax

```
{
```

```
    "operations": [
       {
          "createdAt": number,
          "errorCode": "string",
          "errorDetails": "string",
          "id": "string",
          "isTerminal": boolean,
          "location": {
             "availabilityZone": "string",
             "regionName": "string"
          },
          "operationDetails": "string",
          "operationType": "string",
          "resourceName": "string",
          "resourceType": "string",
          "status": "string",
          "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

DeleteInstanceSnapshot

Deletes a specific snapshot of a virtual private server (or *instance*).

The `delete instance snapshot` operation supports tag-based access control via resource tags applied to the resource identified by `instance snapshot name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "instanceSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceSnapshotName

The name of the snapshot to delete.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
```

```
        "location": {
           "availabilityZone": "string",
           "regionName": "string"
        },
        "operationDetails": "string",
        "operationType": "string",
        "resourceName": "string",
        "resourceType": "string",
        "status": "string",
        "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

DeleteKeyPair

Deletes the specified key pair by removing the public key from Amazon Lightsail.

You can delete key pairs that were created using the ImportKeyPair and CreateKeyPair actions, as well as the Lightsail default key pair. A new default key pair will not be created unless you launch an instance without specifying a custom key pair, or you call the DownloadDefaultKeyPair API.

The `delete key pair` operation supports tag-based access control via resource tags applied to the resource identified by `key pair name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "expectedFingerprint": "string",
   "keyPairName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

expectedFingerprint

The RSA fingerprint of the Lightsail default key pair to delete.

> **Note**
>
> The `expectedFingerprint` parameter is required only when specifying to delete a Lightsail default key pair.

Type: String

Required: No

keyPairName

The name of the key pair to delete.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
      "resourceName": "string",
      "resourceType": "string",
      "status": "string",
      "statusChangedAt": 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.

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Java V2
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DeleteKnownHostKeys

Deletes the known host key or certificate used by the Amazon Lightsail browser-based SSH or RDP clients to authenticate an instance. This operation enables the Lightsail browser-based SSH or RDP clients to connect to the instance after a host key mismatch.

> **Important**
>
> Perform this operation only if you were expecting the host key or certificate mismatch or if you are familiar with the new host key or certificate on the instance. For more information, see Troubleshooting connection issues when using the Amazon Lightsail browser-based SSH or RDP client.

Request Syntax

```
{
   "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceName

The name of the instance for which you want to reset the host key or certificate.

Type: String

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

Required: Yes

Response Syntax

```
{
```

```
    "operations": [
       {
          "createdAt": number,
          "errorCode": "string",
          "errorDetails": "string",
          "id": "string",
          "isTerminal": boolean,
          "location": {
             "availabilityZone": "string",
             "regionName": "string"
          },
          "operationDetails": "string",
          "operationType": "string",
          "resourceName": "string",
          "resourceType": "string",
          "status": "string",
          "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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- AWS SDK for Kotlin
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DeleteLoadBalancer

Deletes a Lightsail load balancer and all its associated SSL/TLS certificates. Once the load balancer is deleted, you will need to create a new load balancer, create a new certificate, and verify domain ownership again.

The `delete load balancer` operation supports tag-based access control via resource tags applied to the resource identified by `load balancer name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "loadBalancerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

loadBalancerName

The name of the load balancer you want to delete.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
```

```
            "id": "string",
            "isTerminal": boolean,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

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HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

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> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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HTTP Status Code: 400

ServiceException

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HTTP Status Code: 500

UnauthenticatedException

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HTTP Status Code: 400

See Also

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- AWS SDK for Ruby V3

DeleteLoadBalancerTlsCertificate

Deletes an SSL/TLS certificate associated with a Lightsail load balancer.

The `DeleteLoadBalancerTlsCertificate` operation supports tag-based access control via resource tags applied to the resource identified by `load balancer name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "certificateName": "string",
   "force": boolean,
   "loadBalancerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

certificateName

The SSL/TLS certificate name.

Type: String

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

Required: Yes

force

When `true`, forces the deletion of an SSL/TLS certificate.

There can be two certificates associated with a Lightsail load balancer: the primary and the backup. The `force` parameter is required when the primary SSL/TLS certificate is in use by an instance attached to the load balancer.

Type: Boolean

Required: No

loadBalancerName

The load balancer name.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
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HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

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See Also

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- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
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- AWS SDK for Ruby V3

DeleteRelationalDatabase

Deletes a database in Amazon Lightsail.

The `delete relational database` operation supports tag-based access control via resource tags applied to the resource identified by relationalDatabaseName. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "finalRelationalDatabaseSnapshotName": "string",
   "relationalDatabaseName": "string",
   "skipFinalSnapshot": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

finalRelationalDatabaseSnapshotName

The name of the database snapshot created if `skip final snapshot` is `false`, which is the default value for that parameter.

> **Note**
>
> Specifying this parameter and also specifying the `skip final snapshot` parameter to `true` results in an error.

Constraints:

- Must contain from 2 to 255 alphanumeric characters, or hyphens.
- The first and last character must be a letter or number.

Type: String

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

Required: No

relationalDatabaseName

The name of the database that you are deleting.

Type: String

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

Required: Yes

skipFinalSnapshot

Determines whether a final database snapshot is created before your database is deleted. If `true` is specified, no database snapshot is created. If `false` is specified, a database snapshot is created before your database is deleted.

You must specify the `final relational database snapshot name` parameter if the `skip final snapshot` parameter is `false`.

Default: `false`

Type: Boolean

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
```

```
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

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AccessDeniedException

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HTTP Status Code: 400

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- AWS SDK for Ruby V3

DeleteRelationalDatabaseSnapshot

Deletes a database snapshot in Amazon Lightsail.

The `delete relational database snapshot` operation supports tag-based access control via resource tags applied to the resource identified by relationalDatabaseName. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "relationalDatabaseSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

relationalDatabaseSnapshotName

The name of the database snapshot that you are deleting.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
```

```
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

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>
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DetachCertificateFromDistribution

Detaches an SSL/TLS certificate from your Amazon Lightsail content delivery network (CDN) distribution.

After the certificate is detached, your distribution stops accepting traffic for all of the domains that are associated with the certificate.

Request Syntax

```
{
   "distributionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

distributionName

The name of the distribution from which to detach the certificate.

Use the `GetDistributions` action to get a list of distribution names that you can specify.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
```

```
        "isTerminal": boolean,
        "location": {
           "availabilityZone": "string",
           "regionName": "string"
        },
        "operationDetails": "string",
        "operationType": "string",
        "resourceName": "string",
        "resourceType": "string",
        "status": "string",
        "statusChangedAt": 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.

operation

An object that describes the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

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>
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HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

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DetachDisk

Detaches a stopped block storage disk from a Lightsail instance. Make sure to unmount any file systems on the device within your operating system before stopping the instance and detaching the disk.

The `detach disk` operation supports tag-based access control via resource tags applied to the resource identified by `disk name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "diskName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

diskName

The unique name of the disk you want to detach from your instance (`my-disk`).

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
```

```
            "id": "string",
            "isTerminal": boolean,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

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HTTP Status Code: 400

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> **Note**
>
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NotFoundException

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HTTP Status Code: 400

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Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

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ServiceException

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HTTP Status Code: 500

UnauthenticatedException

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- AWS SDK for PHP V3
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- AWS SDK for Ruby V3

DetachInstancesFromLoadBalancer

Detaches the specified instances from a Lightsail load balancer.

This operation waits until the instances are no longer needed before they are detached from the load balancer.

The `detach instances from load balancer` operation supports tag-based access control via resource tags applied to the resource identified by `load balancer name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "instanceNames": [ "string" ],
   "loadBalancerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceNames

An array of strings containing the names of the instances you want to detach from the load balancer.

Type: Array of strings

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

Required: Yes

loadBalancerName

The name of the Lightsail load balancer.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

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HTTP Status Code: 400

AccountSetupInProgressException

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HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
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HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

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Regions and Availability Zones for Lightsail

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

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HTTP Status Code: 400

See Also

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

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- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
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- AWS SDK for Ruby V3

DetachStaticIp

Detaches a static IP from the Amazon Lightsail instance to which it is attached.

Request Syntax

```
{
   "staticIpName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

staticIpName

The name of the static IP to detach from the instance.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
```

```
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

DisableAddOn

Disables an add-on for an Amazon Lightsail resource. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "addOnType": "string",
   "resourceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

addOnType

The add-on type to disable.

Type: String

Valid Values: `AutoSnapshot | StopInstanceOnIdle`

Required: Yes

resourceName

The name of the source resource for which to disable the add-on.

Type: String

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

Required: Yes

Response Syntax

```
{
```

```
    "operations": [
       {
          "createdAt": number,
          "errorCode": "string",
          "errorDetails": "string",
          "id": "string",
          "isTerminal": boolean,
          "location": {
             "availabilityZone": "string",
             "regionName": "string"
          },
          "operationDetails": "string",
          "operationType": "string",
          "resourceName": "string",
          "resourceType": "string",
          "status": "string",
          "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

DownloadDefaultKeyPair

Downloads the regional Amazon Lightsail default key pair.

This action also creates a Lightsail default key pair if a default key pair does not currently exist in the AWS Region.

Response Syntax

```
{
   "createdAt": number,
   "privateKeyBase64": "string",
   "publicKeyBase64": "string"
}
```

Response Elements

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

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

createdAt

The timestamp when the default key pair was created.

Type: Timestamp

privateKeyBase64

A base64-encoded RSA private key.

Type: String

publicKeyBase64

A base64-encoded public key of the `ssh-rsa` type.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for .NET V4
- AWS SDK for C++
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- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

EnableAddOn

Enables or modifies an add-on for an Amazon Lightsail resource. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "addOnRequest": {
      "addOnType": "string",
      "autoSnapshotAddOnRequest": {
         "snapshotTimeOfDay": "string"
      },
      "stopInstanceOnIdleRequest": {
         "duration": "string",
         "threshold": "string"
      }
   },
   "resourceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

addOnRequest

An array of strings representing the add-on to enable or modify.

Type: AddOnRequest object

Required: Yes

resourceName

The name of the source resource for which to enable or modify the add-on.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

ExportSnapshot

Exports an Amazon Lightsail instance or block storage disk snapshot to Amazon Elastic Compute Cloud (Amazon EC2). This operation results in an export snapshot record that can be used with the `create cloud formation stack` operation to create new Amazon EC2 instances.

Exported instance snapshots appear in Amazon EC2 as Amazon Machine Images (AMIs), and the instance system disk appears as an Amazon Elastic Block Store (Amazon EBS) volume. Exported disk snapshots appear in Amazon EC2 as Amazon EBS volumes. Snapshots are exported to the same Amazon Web Services Region in Amazon EC2 as the source Lightsail snapshot.

The `export snapshot` operation supports tag-based access control via resource tags applied to the resource identified by `source snapshot name`. For more information, see the Amazon Lightsail Developer Guide.

> **Note**
>
> Use the `get instance snapshots` or `get disk snapshots` operations to get a list of snapshots that you can export to Amazon EC2.

Request Syntax

```
{
   "sourceSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

sourceSnapshotName

The name of the instance or disk snapshot to be exported to Amazon EC2.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetActiveNames

Returns the names of all active (not deleted) resources.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetActiveNames` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "activeNames": [ "string" ],
   "nextPageToken": "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.

activeNames

The list of active names returned by the get active names request.

Type: Array of strings

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetActiveNames` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetAlarms

Returns information about the configured alarms. Specify an alarm name in your request to return information about a specific alarm, or specify a monitored resource name to return information about all alarms for a specific resource.

An alarm is used to monitor a single metric for one of your resources. When a metric condition is met, the alarm can notify you by email, SMS text message, and a banner displayed on the Amazon Lightsail console. For more information, see Alarms in Amazon Lightsail.

Request Syntax

```
{
   "alarmName": "string",
   "monitoredResourceName": "string",
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

alarmName

The name of the alarm.

Specify an alarm name to return information about a specific alarm.

Type: String

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

Required: No

monitoredResourceName

The name of the Lightsail resource being monitored by the alarm.

Specify a monitored resource name to return information about all alarms for a specific resource.

Type: String

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

Required: No

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetAlarms` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "alarms": [
      {
         "arn": "string",
         "comparisonOperator": "string",
         "contactProtocols": [ "string" ],
         "createdAt": number,
         "datapointsToAlarm": number,
         "evaluationPeriods": number,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "metricName": "string",
         "monitoredResourceInfo": {
            "arn": "string",
            "name": "string",
            "resourceType": "string"
         },
         "name": "string",
         "notificationEnabled": boolean,
         "notificationTriggers": [ "string" ],
         "period": number,
```

```
            "resourceType": "string",
            "state": "string",
            "statistic": "string",
            "supportCode": "string",
            "tags": [
               {
                  "key": "string",
                  "value": "string"
               }
            ],
            "threshold": number,
            "treatMissingData": "string",
            "unit": "string"
         }
      ],
      "nextPageToken": "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.

alarms

An array of objects that describe the alarms.

Type: Array of Alarm objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetAlarms` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetAutoSnapshots

Returns the available automatic snapshots for an instance or disk. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "resourceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

resourceName

The name of the source instance or disk from which to get automatic snapshot information.

Type: String

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

Required: Yes

Response Syntax

```
{
   "autoSnapshots": [
      {
         "createdAt": number,
         "date": "string",
         "fromAttachedDisks": [
            {
               "path": "string",
               "sizeInGb": number
            }
         ],
         "status": "string"
```

```
        }
    ],
    "resourceName": "string",
    "resourceType": "string"
}
```

Response Elements

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

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

autoSnapshots

An array of objects that describe the automatic snapshots that are available for the specified source instance or disk.

Type: Array of AutoSnapshotDetails objects

resourceName

The name of the source instance or disk for the automatic snapshots.

Type: String

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

resourceType

The resource type of the automatic snapshot. The possible values are `Instance`, and `Disk`.

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetBlueprints

Returns the list of available instance images, or *blueprints*. You can use a blueprint to create a new instance already running a specific operating system, as well as a preinstalled app or development stack. The software each instance is running depends on the blueprint image you choose.

> **Note**
>
> Use active blueprints when creating new instances. Inactive blueprints are listed to support customers with existing instances and are not necessarily available to create new instances. Blueprints are marked inactive when they become outdated due to operating system updates or new application releases.

Request Syntax

```
{
   "appCategory": "string",
   "includeInactive": boolean,
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

appCategory

Returns a list of blueprints that are specific to Lightsail for Research.

> **Important**
>
> You must use this parameter to view Lightsail for Research blueprints.

Type: String

Valid Values: `LfR`

Required: No

includeInactive

A Boolean value that indicates whether to include inactive (unavailable) blueprints in the response of your request.

Type: Boolean

Required: No

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetBlueprints` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "blueprints": [
      {
         "appCategory": "string",
         "blueprintId": "string",
         "description": "string",
         "group": "string",
         "isActive": boolean,
         "licenseUrl": "string",
         "minPower": number,
         "name": "string",
         "platform": "string",
         "productUrl": "string",
         "type": "string",
         "version": "string",
         "versionCode": "string"
      }
   ],
```

```
    "nextPageToken": "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.

blueprints

An array of key-value pairs that contains information about the available blueprints.

Type: Array of Blueprint objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetBlueprints` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetBucketAccessKeys

Returns the existing access key IDs for the specified Amazon Lightsail bucket.

> **Important**
>
> This action does not return the secret access key value of an access key. You can get a secret access key only when you create it from the response of the CreateBucketAccessKey action. If you lose the secret access key, you must create a new access key.

Request Syntax

```
{
   "bucketName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

bucketName

The name of the bucket for which to return access keys.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 54.

Pattern: `^[a-z0-9][a-z0-9-]{1,52}[a-z0-9]$`

Required: Yes

Response Syntax

```
{
```

```
    "accessKeys": [
       {
          "accessKeyId": "string",
          "createdAt": number,
          "lastUsed": {
             "lastUsedDate": number,
             "region": "string",
             "serviceName": "string"
          },
          "secretAccessKey": "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.

accessKeys

An object that describes the access keys for the specified bucket.

Type: Array of AccessKey objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

Examples

In the following example or examples, the Authorization header contents (AUTHPARAMS) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the *AWS General Reference*.

You need to learn how to sign HTTP requests only if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

Get bucket access keys

The following example returns the access keys for the bucket named `amzn-s3-demo-bucket`. The example response shows that the bucket has one access key (i.e., `AKIAZEXAMPLE12345PKWV`).

Sample Request

```
POST / HTTP/1.1
Host: lightsail.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: Lightsail_20161128.GetBucketAccessKeys
Content-Type: application/x-amz-json-1.1
User-Agent: AGENT
X-Amz-Date: 20210616T143306Z
Authorization: AUTHPARAMS
Content-Length: 49

{"bucketName": "amzn-s3-demo-bucket"}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Wed, 16 Jun 2021 14:33:07 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 99
x-amzn-RequestId: faebc873-b9cd-4dd1-bd6d-caac46bd5a19
Connection: keep-alive
```

```
{
    "accessKeys": [
        {
            "accessKeyId": "AKIAZEXAMPLE12345PKWV",
            "createdAt": 1.619209369E9,
            "status": "Active"
        }
    ]
}
```

See Also

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

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

GetBucketBundles

Returns the bundles that you can apply to a Amazon Lightsail bucket.

The bucket bundle specifies the monthly cost, storage quota, and data transfer quota for a bucket.

Use the UpdateBucketBundle action to update the bundle for a bucket.

Request Syntax

```
{
   "includeInactive": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

includeInactive

A Boolean value that indicates whether to include inactive (unavailable) bundles in the response of your request.

Type: Boolean

Required: No

Response Syntax

```
{
   "bundles": [
      {
         "bundleId": "string",
         "isActive": boolean,
         "name": "string",
         "price": number,
         "storagePerMonthInGb": number,
         "transferPerMonthInGb": 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.

bundles

An object that describes bucket bundles.

Type: Array of BucketBundle objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetBucketMetricData

Returns the data points of a specific metric for an Amazon Lightsail bucket.

Metrics report the utilization of a bucket. View and collect metric data regularly to monitor the number of objects stored in a bucket (including object versions) and the storage space used by those objects.

Request Syntax

```
{
   "bucketName": "string",
   "endTime": number,
   "metricName": "string",
   "period": number,
   "startTime": number,
   "statistics": [ "string" ],
   "unit": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

bucketName

The name of the bucket for which to get metric data.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 54.

Pattern: `^[a-z0-9][a-z0-9-]{1,52}[a-z0-9]$`

Required: Yes

endTime

The timestamp indicating the latest data to be returned.

Type: Timestamp

Required: Yes

metricName

The metric for which you want to return information.

Valid bucket metric names are listed below, along with the most useful statistics to include in your request, and the published unit value.

> **Note**
>
> These bucket metrics are reported once per day.

- **`BucketSizeBytes`** - The amount of data in bytes stored in a bucket. This value is calculated by summing the size of all objects in the bucket (including object versions), including the size of all parts for all incomplete multipart uploads to the bucket.

  Statistics: The most useful statistic is `Maximum`.

  Unit: The published unit is `Bytes`.
- **`NumberOfObjects`** - The total number of objects stored in a bucket. This value is calculated by counting all objects in the bucket (including object versions) and the total number of parts for all incomplete multipart uploads to the bucket.

  Statistics: The most useful statistic is `Average`.

  Unit: The published unit is `Count`.

Type: String

Valid Values: `BucketSizeBytes | NumberOfObjects`

Required: Yes

period

The granularity, in seconds, of the returned data points.

> **Note**
>
> Bucket storage metrics are reported once per day. Therefore, you should specify a period of 86400 seconds, which is the number of seconds in a day.

Type: Integer

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

Required: Yes

startTime

The timestamp indicating the earliest data to be returned.

Type: Timestamp

Required: Yes

statistics

The statistic for the metric.

The following statistics are available:

- `Minimum` - The lowest value observed during the specified period. Use this value to determine low volumes of activity for your application.
- `Maximum` - The highest value observed during the specified period. Use this value to determine high volumes of activity for your application.
- `Sum` - The sum of all values submitted for the matching metric. You can use this statistic to determine the total volume of a metric.
- `Average` - The value of `Sum` / `SampleCount` during the specified period. By comparing this statistic with the `Minimum` and `Maximum` values, you can determine the full scope of a metric and how close the average use is to the `Minimum` and `Maximum` values. This comparison helps you to know when to increase or decrease your resources.
- `SampleCount` - The count, or number, of data points used for the statistical calculation.

Type: Array of strings

Valid Values: `Minimum` | `Maximum` | `Sum` | `Average` | `SampleCount`

Required: Yes

unit

The unit for the metric data request.

Valid units depend on the metric data being requested. For the valid units with each available metric, see the `metricName` parameter.

Type: String

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

Required: Yes

Response Syntax

```
{
   "metricData": [
      {
         "average": number,
         "maximum": number,
         "minimum": number,
         "sampleCount": number,
         "sum": number,
         "timestamp": number,
         "unit": "string"
      }
   ],
   "metricName": "string"
}
```

Response Elements

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

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

metricData

An array of objects that describe the metric data returned.

Type: Array of MetricDatapoint objects

metricName

The name of the metric returned.

Type: String

Valid Values: `BucketSizeBytes | NumberOfObjects`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetBuckets

Returns information about one or more Amazon Lightsail buckets. The information returned includes the synchronization status of the Amazon Simple Storage Service (Amazon S3) account-level block public access feature for your Lightsail buckets.

For more information about buckets, see Buckets in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

Request Syntax

```
{
   "bucketName": "string",
   "includeConnectedResources": boolean,
   "includeCors": boolean,
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

bucketName

The name of the bucket for which to return information.

When omitted, the response includes all of your buckets in the AWS Region where the request is made.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 54.

Pattern: `^[a-z0-9][a-z0-9-]{1,52}[a-z0-9]$`

Required: No

includeConnectedResources

A Boolean value that indicates whether to include Lightsail instances that were given access to the bucket using the SetResourceAccessForBucket action.

Type: Boolean

Required: No

includeCors

A Boolean value that indicates whether to include Lightsail bucket CORS configuration in the response. For more information, see Configuring cross-origin resource sharing (CORS).

> **Note**
>
> This parameter is only supported when getting a single bucket with `bucketName` specified. The default value for this parameter is `False`.

Type: Boolean

Required: No

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetBuckets` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "accountLevelBpaSync": {
      "bpaImpactsLightsail": boolean,
      "lastSyncedAt": number,
      "message": "string",
      "status": "string"
   },
   "buckets": [
      {
         "ableToUpdateBundle": boolean,
```

```
        "accessLogConfig": {
           "destination": "string",
           "enabled": boolean,
           "prefix": "string"
        },
        "accessRules": {
           "allowPublicOverrides": boolean,
           "getObject": "string"
        },
        "arn": "string",
        "bundleId": "string",
        "cors": {
           "rules": [
              {
                 "allowedHeaders": [ "string" ],
                 "allowedMethods": [ "string" ],
                 "allowedOrigins": [ "string" ],
                 "exposeHeaders": [ "string" ],
                 "id": "string",
                 "maxAgeSeconds": number
              }
           ]
        },
        "createdAt": number,
        "location": {
           "availabilityZone": "string",
           "regionName": "string"
        },
        "name": "string",
        "objectVersioning": "string",
        "readonlyAccessAccounts": [ "string" ],
        "resourcesReceivingAccess": [
           {
              "name": "string",
              "resourceType": "string"
           }
        ],
        "resourceType": "string",
        "state": {
           "code": "string",
           "message": "string"
        },
        "supportCode": "string",
        "tags": [
```

```
            {
               "key": "string",
               "value": "string"
            }
         ],
         "url": "string"
      }
   ],
   "nextPageToken": "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.

accountLevelBpaSync

An object that describes the synchronization status of the Amazon S3 account-level block public access feature for your Lightsail buckets.

For more information about this feature and how it affects Lightsail buckets, see Block public access for buckets in Amazon Lightsail.

Type: AccountLevelBpaSync object

buckets

An array of objects that describe buckets.

Type: Array of Bucket objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetBuckets` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetBundles

Returns the bundles that you can apply to an Amazon Lightsail instance when you create it.

A bundle describes the specifications of an instance, such as the monthly cost, amount of memory, the number of vCPUs, amount of storage space, and monthly network data transfer quota.

> **Note**
>
> Bundles are referred to as *instance plans* in the Lightsail console.

Request Syntax

```
{
   "appCategory": "string",
   "includeInactive": boolean,
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

appCategory

Returns a list of bundles that are specific to Lightsail for Research.

> **Important**
>
> You must use this parameter to view Lightsail for Research bundles.

Type: String

Valid Values: `LfR`

Required: No

includeInactive

A Boolean value that indicates whether to include inactive (unavailable) bundles in the response of your request.

Type: Boolean

Required: No

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetBundles` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "bundles": [
      {
         "bundleId": "string",
         "cpuCount": number,
         "diskSizeInGb": number,
         "instanceType": "string",
         "isActive": boolean,
         "name": "string",
         "power": number,
         "price": number,
         "publicIpv4AddressCount": number,
         "ramSizeInGb": number,
         "supportedAppCategories": [ "string" ],
         "supportedPlatforms": [ "string" ],
         "transferPerMonthInGb": number
      }
   ],
   "nextPageToken": "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.

bundles

An array of key-value pairs that contains information about the available bundles.

Type: Array of Bundle objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetBundles` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetCertificates

Returns information about one or more Amazon Lightsail SSL/TLS certificates.

> **Note**
>
> To get a summary of a certificate, omit `includeCertificateDetails` from your request. The response will include only the certificate Amazon Resource Name (ARN), certificate name, domain name, and tags.

Request Syntax

```
{
   "certificateName": "string",
   "certificateStatuses": [ "string" ],
   "includeCertificateDetails": boolean,
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

certificateName

The name for the certificate for which to return information.

When omitted, the response includes all of your certificates in the AWS Region where the request is made.

Type: String

Required: No

certificateStatuses

The status of the certificates for which to return information.

For example, specify `ISSUED` to return only certificates with an `ISSUED` status.

When omitted, the response includes all of your certificates in the AWS Region where the request is made, regardless of their current status.

Type: Array of strings

Valid Values: `PENDING_VALIDATION | ISSUED | INACTIVE | EXPIRED | VALIDATION_TIMED_OUT | REVOKED | FAILED`

Required: No

includeCertificateDetails

Indicates whether to include detailed information about the certificates in the response.

When omitted, the response includes only the certificate names, Amazon Resource Names (ARNs), domain names, and tags.

Type: Boolean

Required: No

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetCertificates` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "certificates": [
      {
         "certificateArn": "string",
         "certificateDetail": {
            "arn": "string",
            "createdAt": number,
            "domainName": "string",
            "domainValidationRecords": [
```

```
            {
               "dnsRecordCreationState": {
                  "code": "string",
                  "message": "string"
               },
               "domainName": "string",
               "resourceRecord": {
                  "name": "string",
                  "type": "string",
                  "value": "string"
               },
               "validationStatus": "string"
            }
         ],
         "eligibleToRenew": "string",
         "inUseResourceCount": number,
         "issuedAt": number,
         "issuerCA": "string",
         "keyAlgorithm": "string",
         "name": "string",
         "notAfter": number,
         "notBefore": number,
         "renewalSummary": {
            "domainValidationRecords": [
               {
                  "dnsRecordCreationState": {
                     "code": "string",
                     "message": "string"
                  },
                  "domainName": "string",
                  "resourceRecord": {
                     "name": "string",
                     "type": "string",
                     "value": "string"
                  },
                  "validationStatus": "string"
               }
            ],
            "renewalStatus": "string",
            "renewalStatusReason": "string",
            "updatedAt": number
         },
         "requestFailureReason": "string",
         "revocationReason": "string",
```

```
            "revokedAt": number,
            "serialNumber": "string",
            "status": "string",
            "subjectAlternativeNames": [ "string" ],
            "supportCode": "string",
            "tags": [
               {
                  "key": "string",
                  "value": "string"
               }
            ]
         },
         "certificateName": "string",
         "domainName": "string",
         "tags": [
            {
               "key": "string",
               "value": "string"
            }
         ]
      }
   ],
   "nextPageToken": "string"
}
```

Response Elements

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

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

certificates

An object that describes certificates.

Type: Array of CertificateSummary objects

nextPageToken

If `NextPageToken` is returned there are more results available. The value of `NextPageToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page. Keep all other arguments unchanged.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetCloudFormationStackRecords

Returns the CloudFormation stack record created as a result of the `create cloud formation stack` operation.

An AWS CloudFormation stack is used to create a new Amazon EC2 instance from an exported Lightsail snapshot.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetClouFormationStackRecords` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "cloudFormationStackRecords": [
      {
         "arn": "string",
         "createdAt": number,
```

```
            "destinationInfo": {
               "id": "string",
               "service": "string"
            },
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "name": "string",
            "resourceType": "string",
            "sourceInfo": [
               {
                  "arn": "string",
                  "name": "string",
                  "resourceType": "string"
               }
            ],
            "state": "string"
         }
      ],
      "nextPageToken": "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.

cloudFormationStackRecords

A list of objects describing the CloudFormation stack records.

Type: Array of CloudFormationStackRecord objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetCloudFormationStackRecords` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetContactMethods

Returns information about the configured contact methods. Specify a protocol in your request to return information about a specific contact method.

A contact method is used to send you notifications about your Amazon Lightsail resources. You can add one email address and one mobile phone number contact method in each AWS Region. However, SMS text messaging is not supported in some AWS Regions, and SMS text messages cannot be sent to some countries/regions. For more information, see Notifications in Amazon Lightsail.

Request Syntax

```
{
   "protocols": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

protocols

The protocols used to send notifications, such as `Email`, or `SMS` (text messaging).

Specify a protocol in your request to return information about a specific contact method protocol.

Type: Array of strings

Valid Values: `Email | SMS`

Required: No

Response Syntax

```
{
   "contactMethods": [
      {
```

```
            "arn": "string",
            "contactEndpoint": "string",
            "createdAt": number,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "name": "string",
            "protocol": "string",
            "resourceType": "string",
            "status": "string",
            "supportCode": "string",
            "tags": [
               {
                  "key": "string",
                  "value": "string"
               }
            ]
         }
      ]
}
```

Response Elements

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

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

contactMethods

An array of objects that describe the contact methods.

Type: Array of ContactMethod objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetContainerAPIMetadata

Returns information about Amazon Lightsail containers, such as the current version of the Lightsail Control (lightsailctl) plugin.

Response Syntax

```
{
   "metadata": [
      {
         "string" : "string"
      }
   ]
}
```

Response Elements

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

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

metadata

Metadata about Lightsail containers, such as the current version of the Lightsail Control (lightsailctl) plugin.

Type: Array of string to string maps

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetContainerImages

Returns the container images that are registered to your Amazon Lightsail container service.

> **Note**
>
> If you created a deployment on your Lightsail container service that uses container images from a public registry like Docker Hub, those images are not returned as part of this action. Those images are not registered to your Lightsail container service.

Request Syntax

```
{
   "serviceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

serviceName

The name of the container service for which to return registered container images.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: Yes

Response Syntax

```
{
   "containerImages": [
```

```
        {
            "createdAt": number,
            "digest": "string",
            "image": "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.

containerImages

An array of objects that describe container images that are registered to the container service.

Type: Array of ContainerImage objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetContainerLog

Returns the log events of a container of your Amazon Lightsail container service.

If your container service has more than one node (i.e., a scale greater than 1), then the log events that are returned for the specified container are merged from all nodes on your container service.

> **Note**
>
> Container logs are retained for a certain amount of time. For more information, see Amazon Lightsail endpoints and quotas in the *AWS General Reference*.

Request Syntax

```
{
   "containerName": "string",
   "endTime": number,
   "filterPattern": "string",
   "pageToken": "string",
   "serviceName": "string",
   "startTime": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

containerName

The name of the container that is either running or previously ran on the container service for which to return a log.

Type: String

Required: Yes

endTime

The end of the time interval for which to get log data.

Constraints:

- Specified in Coordinated Universal Time (UTC).
- Specified in the Unix time format.

  For example, if you wish to use an end time of October 1, 2018, at 9 PM UTC, specify `1538427600` as the end time.

You can convert a human-friendly time to Unix time format using a converter like Epoch converter.

Type: Timestamp

Required: No

filterPattern

The pattern to use to filter the returned log events to a specific term.

The following are a few examples of filter patterns that you can specify:

- To return all log events, specify a filter pattern of `""`.
- To exclude log events that contain the `ERROR` term, and return all other log events, specify a filter pattern of `"-ERROR"`.
- To return log events that contain the `ERROR` term, specify a filter pattern of `"ERROR"`.
- To return log events that contain both the `ERROR` and `Exception` terms, specify a filter pattern of `"ERROR Exception"`.
- To return log events that contain the `ERROR` *or* the `Exception` term, specify a filter pattern of `"?ERROR ?Exception"`.

Type: String

Required: No

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetContainerLog` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

serviceName

The name of the container service for which to get a container log.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: Yes

startTime

The start of the time interval for which to get log data.

Constraints:

- Specified in Coordinated Universal Time (UTC).
- Specified in the Unix time format.

  For example, if you wish to use a start time of October 1, 2018, at 8 PM UTC, specify `1538424000` as the start time.

You can convert a human-friendly time to Unix time format using a converter like Epoch converter.

Type: Timestamp

Required: No

Response Syntax

```
{
   "logEvents": [
      {
         "createdAt": number,
         "message": "string"
      }
```

```
    ],
    "nextPageToken": "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.

logEvents

An array of objects that describe the log events of a container.

Type: Array of ContainerServiceLogEvent objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetContainerLog` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetContainerServiceDeployments

Returns the deployments for your Amazon Lightsail container service

A deployment specifies the settings, such as the ports and launch command, of containers that are deployed to your container service.

The deployments are ordered by version in ascending order. The newest version is listed at the top of the response.

> **Note**
>
> A set number of deployments are kept before the oldest one is replaced with the newest one. For more information, see Amazon Lightsail endpoints and quotas in the *AWS General Reference*.

Request Syntax

```
{
   "serviceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

serviceName

The name of the container service for which to return deployments.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: Yes

Response Syntax

```
{
   "deployments": [
      {
         "containers": {
            "string" : {
               "command": [ "string" ],
               "environment": {
                  "string" : "string"
               },
               "image": "string",
               "ports": {
                  "string" : "string"
               }
            }
         },
         "createdAt": number,
         "publicEndpoint": {
            "containerName": "string",
            "containerPort": number,
            "healthCheck": {
               "healthyThreshold": number,
               "intervalSeconds": number,
               "path": "string",
               "successCodes": "string",
               "timeoutSeconds": number,
               "unhealthyThreshold": number
            }
         },
         "state": "string",
         "version": number
      }
   ]
}
```

Response Elements

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

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

deployments

An array of objects that describe deployments for a container service.

Type: Array of ContainerServiceDeployment objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Ruby V3

GetContainerServiceMetricData

Returns the data points of a specific metric of your Amazon Lightsail container service.

Metrics report the utilization of your resources. Monitor and collect metric data regularly to maintain the reliability, availability, and performance of your resources.

Request Syntax

```
{
   "endTime": number,
   "metricName": "string",
   "period": number,
   "serviceName": "string",
   "startTime": number,
   "statistics": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

endTime

The end time of the time period.

Type: Timestamp

Required: Yes

metricName

The metric for which you want to return information.

Valid container service metric names are listed below, along with the most useful statistics to include in your request, and the published unit value.

- `CPUUtilization` - The average percentage of compute units that are currently in use across all nodes of the container service. This metric identifies the processing power required to run containers on each node of the container service.

Statistics: The most useful statistics are `Maximum` and `Average`.

Unit: The published unit is `Percent`.

- `MemoryUtilization` - The average percentage of available memory that is currently in use across all nodes of the container service. This metric identifies the memory required to run containers on each node of the container service.

  Statistics: The most useful statistics are `Maximum` and `Average`.

  Unit: The published unit is `Percent`.

Type: String

Valid Values: `CPUUtilization | MemoryUtilization`

Required: Yes

period

The granularity, in seconds, of the returned data points.

All container service metric data is available in 5-minute (300 seconds) granularity.

Type: Integer

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

Required: Yes

serviceName

The name of the container service for which to get metric data.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: Yes

startTime

The start time of the time period.

Type: Timestamp

Required: Yes

statistics

The statistic for the metric.

The following statistics are available:

- `Minimum` - The lowest value observed during the specified period. Use this value to determine low volumes of activity for your application.
- `Maximum` - The highest value observed during the specified period. Use this value to determine high volumes of activity for your application.
- `Sum` - All values submitted for the matching metric added together. You can use this statistic to determine the total volume of a metric.
- `Average` - The value of `Sum` / `SampleCount` during the specified period. By comparing this statistic with the `Minimum` and `Maximum` values, you can determine the full scope of a metric and how close the average use is to the `Minimum` and `Maximum` values. This comparison helps you to know when to increase or decrease your resources.
- `SampleCount` - The count, or number, of data points used for the statistical calculation.

Type: Array of strings

Valid Values: `Minimum | Maximum | Sum | Average | SampleCount`

Required: Yes

Response Syntax

```
{
   "metricData": [
      {
         "average": number,
         "maximum": number,
         "minimum": number,
         "sampleCount": number,
         "sum": number,
         "timestamp": number,
         "unit": "string"
      }
   ],
   "metricName": "string"
```

```
}
```

Response Elements

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

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

metricData

An array of objects that describe the metric data returned.

Type: Array of MetricDatapoint objects

metricName

The name of the metric returned.

Type: String

Valid Values: `CPUUtilization | MemoryUtilization`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for Kotlin
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- AWS SDK for Ruby V3

GetContainerServicePowers

Returns the list of powers that can be specified for your Amazon Lightsail container services.

The power specifies the amount of memory, the number of vCPUs, and the base price of the container service.

Response Syntax

```
{
   "powers": [
      {
         "cpuCount": number,
         "isActive": boolean,
         "name": "string",
         "powerId": "string",
         "price": number,
         "ramSizeInGb": 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.

powers

An array of objects that describe the powers that can be specified for a container service.

Type: Array of ContainerServicePower objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetContainerServices

Returns information about one or more of your Amazon Lightsail container services.

Request Syntax

```
{
   "serviceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

serviceName

The name of the container service for which to return information.

When omitted, the response includes all of your container services in the AWS Region where the request is made.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: No

Response Syntax

```
{
   "containerServices": [
      {
         "arn": "string",
         "containerServiceName": "string",
         "createdAt": number,
         "currentDeployment": {
            "containers": {
               "string" : {
```

```
                "command": [ "string" ],
                "environment": {
                   "string" : "string"
                },
                "image": "string",
                "ports": {
                   "string" : "string"
                }
             }
          },
          "createdAt": number,
          "publicEndpoint": {
             "containerName": "string",
             "containerPort": number,
             "healthCheck": {
                "healthyThreshold": number,
                "intervalSeconds": number,
                "path": "string",
                "successCodes": "string",
                "timeoutSeconds": number,
                "unhealthyThreshold": number
             }
          },
          "state": "string",
          "version": number
       },
       "isDisabled": boolean,
       "location": {
          "availabilityZone": "string",
          "regionName": "string"
       },
       "nextDeployment": {
          "containers": {
             "string" : {
                "command": [ "string" ],
                "environment": {
                   "string" : "string"
                },
                "image": "string",
                "ports": {
                   "string" : "string"
                }
             }
          },
```

```
            "createdAt": number,
            "publicEndpoint": {
               "containerName": "string",
               "containerPort": number,
               "healthCheck": {
                  "healthyThreshold": number,
                  "intervalSeconds": number,
                  "path": "string",
                  "successCodes": "string",
                  "timeoutSeconds": number,
                  "unhealthyThreshold": number
               }
            },
            "state": "string",
            "version": number
         },
         "power": "string",
         "powerId": "string",
         "principalArn": "string",
         "privateDomainName": "string",
         "privateRegistryAccess": {
            "ecrImagePullerRole": {
               "isActive": boolean,
               "principalArn": "string"
            }
         },
         "publicDomainNames": {
            "string" : [ "string" ]
         },
         "resourceType": "string",
         "scale": number,
         "state": "string",
         "stateDetail": {
            "code": "string",
            "message": "string"
         },
         "tags": [
            {
               "key": "string",
               "value": "string"
            }
         ],
         "url": "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.

containerServices

An array of objects that describe one or more container services.

Type: Array of ContainerService objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Kotlin

- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetCostEstimate

Retrieves information about the cost estimate for a specified resource. A cost estimate will not generate for a resource that has been deleted.

Request Syntax

```
{
   "endTime": number,
   "resourceName": "string",
   "startTime": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

endTime

The cost estimate end time.

Constraints:

- Specified in Coordinated Universal Time (UTC).
- Specified in the Unix time format.

  For example, if you want to use an end time of October 1, 2018, at 9 PM UTC, specify `1538427600` as the end time.

You can convert a human-friendly time to Unix time format using a converter like Epoch converter.

Type: Timestamp

Required: Yes

resourceName

The resource name.

Type: String

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

Required: Yes

startTime

The cost estimate start time.

Constraints:

- Specified in Coordinated Universal Time (UTC).
- Specified in the Unix time format.

  For example, if you want to use a start time of October 1, 2018, at 8 PM UTC, specify `1538424000` as the start time.

You can convert a human-friendly time to Unix time format using a converter like Epoch converter.

Type: Timestamp

Required: Yes

Response Syntax

```
{
   "resourcesBudgetEstimate": [
      {
         "costEstimates": [
            {
               "resultsByTime": [
                  {
                     "currency": "string",
                     "pricingUnit": "string",
                     "timePeriod": {
                        "end": number,
                        "start": number
                     },
                     "unit": number,
                     "usageCost": number
                  }
               ],
               "usageType": "string"
            }
```

```
            ],
            "endTime": number,
            "resourceName": "string",
            "resourceType": "string",
            "startTime": number
        }
    ]
}
```

Response Elements

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

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

resourcesBudgetEstimate

Returns the estimate's forecasted cost or usage.

Type: Array of ResourceBudgetEstimate objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for C++

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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetDisk

Returns information about a specific block storage disk.

Request Syntax

```
{
   "diskName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

diskName

The name of the disk (`my-disk`).

Type: String

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

Required: Yes

Response Syntax

```
{
   "disk": {
      "addOns": [
         {
            "duration": "string",
            "name": "string",
            "nextSnapshotTimeOfDay": "string",
            "snapshotTimeOfDay": "string",
            "status": "string",
            "threshold": "string"
         }
      ],
      "arn": "string",
```

```
        "attachedTo": "string",
        "attachmentState": "string",
        "autoMountStatus": "string",
        "createdAt": number,
        "gbInUse": number,
        "iops": number,
        "isAttached": boolean,
        "isSystemDisk": boolean,
        "location": {
           "availabilityZone": "string",
           "regionName": "string"
        },
        "name": "string",
        "path": "string",
        "resourceType": "string",
        "sizeInGb": number,
        "state": "string",
        "supportCode": "string",
        "tags": [
           {
              "key": "string",
              "value": "string"
           }
        ]
    }
}
```

Response Elements

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

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

disk

An object containing information about the disk.

Type: Disk object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetDisks

Returns information about all block storage disks in your AWS account and region.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetDisks` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "disks": [
      {
         "addOns": [
            {
               "duration": "string",
               "name": "string",
               "nextSnapshotTimeOfDay": "string",
               "snapshotTimeOfDay": "string",
               "status": "string",
               "threshold": "string"
```

```
            }
         ],
         "arn": "string",
         "attachedTo": "string",
         "attachmentState": "string",
         "autoMountStatus": "string",
         "createdAt": number,
         "gbInUse": number,
         "iops": number,
         "isAttached": boolean,
         "isSystemDisk": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "name": "string",
         "path": "string",
         "resourceType": "string",
         "sizeInGb": number,
         "state": "string",
         "supportCode": "string",
         "tags": [
            {
               "key": "string",
               "value": "string"
            }
         ]
      }
   ],
   "nextPageToken": "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.

disks

An array of objects containing information about all block storage disks.

Type: Array of Disk objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetDisks` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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++
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- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetDiskSnapshot

Returns information about a specific block storage disk snapshot.

Request Syntax

```
{
   "diskSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

diskSnapshotName

The name of the disk snapshot (`my-disk-snapshot`).

Type: String

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

Required: Yes

Response Syntax

```
{
   "diskSnapshot": {
      "arn": "string",
      "createdAt": number,
      "fromDiskArn": "string",
      "fromDiskName": "string",
      "fromInstanceArn": "string",
      "fromInstanceName": "string",
      "isFromAutoSnapshot": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
```

```
        "name": "string",
        "progress": "string",
        "resourceType": "string",
        "sizeInGb": number,
        "state": "string",
        "supportCode": "string",
        "tags": [
           {
              "key": "string",
              "value": "string"
           }
        ]
    }
}
```

Response Elements

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

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

diskSnapshot

An object containing information about the disk snapshot.

Type: DiskSnapshot object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetDiskSnapshots

Returns information about all block storage disk snapshots in your AWS account and region.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetDiskSnapshots` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "diskSnapshots": [
      {
         "arn": "string",
         "createdAt": number,
         "fromDiskArn": "string",
         "fromDiskName": "string",
         "fromInstanceArn": "string",
         "fromInstanceName": "string",
         "isFromAutoSnapshot": boolean,
```

```
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "name": "string",
            "progress": "string",
            "resourceType": "string",
            "sizeInGb": number,
            "state": "string",
            "supportCode": "string",
            "tags": [
               {
                  "key": "string",
                  "value": "string"
               }
            ]
         }
      ],
      "nextPageToken": "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.

diskSnapshots

An array of objects containing information about all block storage disk snapshots.

Type: Array of DiskSnapshot objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetDiskSnapshots` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
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- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetDistributionBundles

Returns the bundles that can be applied to your Amazon Lightsail content delivery network (CDN) distributions.

A distribution bundle specifies the monthly network transfer quota and monthly cost of your distribution.

Response Syntax

```
{
   "bundles": [
      {
         "bundleId": "string",
         "isActive": boolean,
         "name": "string",
         "price": number,
         "transferPerMonthInGb": 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.

bundles

An object that describes a distribution bundle.

Type: Array of DistributionBundle objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetDistributionLatestCacheReset

Returns the timestamp and status of the last cache reset of a specific Amazon Lightsail content delivery network (CDN) distribution.

Request Syntax

```
{
   "distributionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

distributionName

The name of the distribution for which to return the timestamp of the last cache reset.

Use the `GetDistributions` action to get a list of distribution names that you can specify.

When omitted, the response includes the latest cache reset timestamp of all your distributions.

Type: String

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

Required: No

Response Syntax

```
{
   "createTime": number,
   "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.

createTime

The timestamp of the last cache reset (`1479734909.17`) in Unix time format.

Type: Timestamp

status

The status of the last cache reset.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetDistributionMetricData

Returns the data points of a specific metric for an Amazon Lightsail content delivery network (CDN) distribution.

Metrics report the utilization of your resources, and the error counts generated by them. Monitor and collect metric data regularly to maintain the reliability, availability, and performance of your resources.

Request Syntax

```
{
   "distributionName": "string",
   "endTime": number,
   "metricName": "string",
   "period": number,
   "startTime": number,
   "statistics": [ "string" ],
   "unit": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

distributionName

The name of the distribution for which to get metric data.

Use the `GetDistributions` action to get a list of distribution names that you can specify.

Type: String

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

Required: Yes

endTime

The end of the time interval for which to get metric data.

Constraints:

- Specified in Coordinated Universal Time (UTC).
- Specified in the Unix time format.

  For example, if you wish to use an end time of October 1, 2018, at 9 PM UTC, specify `1538427600` as the end time.

You can convert a human-friendly time to Unix time format using a converter like Epoch converter.

Type: Timestamp

Required: Yes

metricName

The metric for which you want to return information.

Valid distribution metric names are listed below, along with the most useful `statistics` to include in your request, and the published `unit` value.

- **`Requests`** - The total number of viewer requests received by your Lightsail distribution, for all HTTP methods, and for both HTTP and HTTPS requests.

  `Statistics`: The most useful statistic is `Sum`.

  `Unit`: The published unit is `None`.
- **`BytesDownloaded`** - The number of bytes downloaded by viewers for GET, HEAD, and OPTIONS requests.

  `Statistics`: The most useful statistic is `Sum`.

  `Unit`: The published unit is `None`.
- **`BytesUploaded`** - The number of bytes uploaded to your origin by your Lightsail distribution, using POST and PUT requests.

  `Statistics`: The most useful statistic is `Sum`.

  `Unit`: The published unit is `None`.
- **`TotalErrorRate`** - The percentage of all viewer requests for which the response's HTTP status code was 4xx or 5xx.

`Statistics`: The most useful statistic is `Average`.

`Unit`: The published unit is `Percent`.

- **`4xxErrorRate`** - The percentage of all viewer requests for which the response's HTTP status cod was 4xx. In these cases, the client or client viewer may have made an error. For example, a status code of 404 (Not Found) means that the client requested an object that could not be found.

  `Statistics`: The most useful statistic is `Average`.

  `Unit`: The published unit is `Percent`.

- **`5xxErrorRate`** - The percentage of all viewer requests for which the response's HTTP status code was 5xx. In these cases, the origin server did not satisfy the requests. For example, a status code of 503 (Service Unavailable) means that the origin server is currently unavailable.

  `Statistics`: The most useful statistic is `Average`.

  `Unit`: The published unit is `Percent`.

Type: String

Valid Values: `Requests | BytesDownloaded | BytesUploaded | TotalErrorRate | Http4xxErrorRate | Http5xxErrorRate`

Required: Yes

period

The granularity, in seconds, for the metric data points that will be returned.

Type: Integer

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

Required: Yes

startTime

The start of the time interval for which to get metric data.

Constraints:

- Specified in Coordinated Universal Time (UTC).
- Specified in the Unix time format.

  For example, if you wish to use a start time of October 1, 2018, at 8 PM UTC, specify `1538424000` as the start time.

You can convert a human-friendly time to Unix time format using a converter like Epoch converter.

Type: Timestamp

Required: Yes

statistics

The statistic for the metric.

The following statistics are available:

- `Minimum` - The lowest value observed during the specified period. Use this value to determine low volumes of activity for your application.
- `Maximum` - The highest value observed during the specified period. Use this value to determine high volumes of activity for your application.
- `Sum` - All values submitted for the matching metric added together. You can use this statistic to determine the total volume of a metric.
- `Average` - The value of Sum / SampleCount during the specified period. By comparing this statistic with the Minimum and Maximum values, you can determine the full scope of a metric and how close the average use is to the Minimum and Maximum values. This comparison helps you to know when to increase or decrease your resources.
- `SampleCount` - The count, or number, of data points used for the statistical calculation.

Type: Array of strings

Valid Values: `Minimum | Maximum | Sum | Average | SampleCount`

Required: Yes

unit

The unit for the metric data request.

Valid units depend on the metric data being requested. For the valid units with each available metric, see the `metricName` parameter.

Type: String

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

Required: Yes

Response Syntax

```
{
   "metricData": [
      {
         "average": number,
         "maximum": number,
         "minimum": number,
         "sampleCount": number,
         "sum": number,
         "timestamp": number,
         "unit": "string"
      }
   ],
   "metricName": "string"
}
```

Response Elements

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

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

metricData

An array of objects that describe the metric data returned.

Type: Array of MetricDatapoint objects

metricName

The name of the metric returned.

Type: String

Valid Values: `Requests | BytesDownloaded | BytesUploaded | TotalErrorRate | Http4xxErrorRate | Http5xxErrorRate`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetDistributions

Returns information about one or more of your Amazon Lightsail content delivery network (CDN) distributions.

Request Syntax

```
{
   "distributionName": "string",
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

distributionName

The name of the distribution for which to return information.

When omitted, the response includes all of your distributions in the AWS Region where the request is made.

Type: String

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

Required: No

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetDistributions` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "distributions": [
      {
         "ableToUpdateBundle": boolean,
         "alternativeDomainNames": [ "string" ],
         "arn": "string",
         "bundleId": "string",
         "cacheBehaviors": [
            {
               "behavior": "string",
               "path": "string"
            }
         ],
         "cacheBehaviorSettings": {
            "allowedHTTPMethods": "string",
            "cachedHTTPMethods": "string",
            "defaultTTL": number,
            "forwardedCookies": {
               "cookiesAllowList": [ "string" ],
               "option": "string"
            },
            "forwardedHeaders": {
               "headersAllowList": [ "string" ],
               "option": "string"
            },
            "forwardedQueryStrings": {
               "option": boolean,
               "queryStringsAllowList": [ "string" ]
            },
            "maximumTTL": number,
            "minimumTTL": number
         },
         "certificateName": "string",
         "createdAt": number,
         "customErrorResponses": [
            {
               "errorCachingMinTTL": number,
               "errorCode": number,
               "responseCode": "string",
               "responsePagePath": "string"
            }
```

```
            ],
            "defaultCacheBehavior": {
               "behavior": "string"
            },
            "defaultRootObject": "string",
            "domainName": "string",
            "ipAddressType": "string",
            "isEnabled": boolean,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "name": "string",
            "origin": {
               "ipAddressType": "string",
               "isPrivateOriginAccessEnabled": boolean,
               "name": "string",
               "protocolPolicy": "string",
               "regionName": "string",
               "resourceType": "string",
               "responseTimeout": number
            },
            "originPublicDNS": "string",
            "resourceType": "string",
            "status": "string",
            "supportCode": "string",
            "tags": [
               {
                  "key": "string",
                  "value": "string"
               }
            ],
            "viewerMinimumTlsProtocolVersion": "string"
         }
      ],
      "nextPageToken": "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.

distributions

An array of objects that describe your distributions.

Type: Array of LightsailDistribution objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetDistributions` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetDomain

Returns information about a specific domain recordset.

Request Syntax

```
{
   "domainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

domainName

The domain name for which your want to return information about.

Type: String

Required: Yes

Response Syntax

```
{
   "domain": {
      "arn": "string",
      "createdAt": number,
      "domainEntries": [
         {
            "id": "string",
            "isAlias": boolean,
            "name": "string",
            "options": {
               "string" : "string"
            },
            "target": "string",
            "type": "string"
         }
```

```
        ],
        "location": {
           "availabilityZone": "string",
           "regionName": "string"
        },
        "name": "string",
        "registeredDomainDelegationInfo": {
           "nameServersUpdateState": {
              "code": "string",
              "message": "string"
           },
           "r53HostedZoneDeletionState": {
              "code": "string",
              "message": "string"
           }
        },
        "resourceType": "string",
        "supportCode": "string",
        "tags": [
           {
              "key": "string",
              "value": "string"
           }
        ]
    }
}
```

Response Elements

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

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

domain

An array of key-value pairs containing information about your get domain request.

Type: Domain object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetDomains

Returns a list of all domains in the user's account.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetDomains` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "domains": [
      {
         "arn": "string",
         "createdAt": number,
         "domainEntries": [
            {
               "id": "string",
               "isAlias": boolean,
```

```
                "name": "string",
                "options": {
                   "string" : "string"
                },
                "target": "string",
                "type": "string"
             }
          ],
          "location": {
             "availabilityZone": "string",
             "regionName": "string"
          },
          "name": "string",
          "registeredDomainDelegationInfo": {
             "nameServersUpdateState": {
                "code": "string",
                "message": "string"
             },
             "r53HostedZoneDeletionState": {
                "code": "string",
                "message": "string"
             }
          },
          "resourceType": "string",
          "supportCode": "string",
          "tags": [
             {
                "key": "string",
                "value": "string"
             }
          ]
       }
    ],
    "nextPageToken": "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.

domains

An array of key-value pairs containing information about each of the domain entries in the user's account.

Type: Array of Domain objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetDomains` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetExportSnapshotRecords

Returns all export snapshot records created as a result of the `export snapshot` operation.

An export snapshot record can be used to create a new Amazon EC2 instance and its related resources with the CreateCloudFormationStack action.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetExportSnapshotRecords` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "exportSnapshotRecords": [
      {
         "arn": "string",
         "createdAt": number,
         "destinationInfo": {
```

```
            "id": "string",
            "service": "string"
         },
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "name": "string",
         "resourceType": "string",
         "sourceInfo": {
            "arn": "string",
            "createdAt": number,
            "diskSnapshotInfo": {
               "sizeInGb": number
            },
            "fromResourceArn": "string",
            "fromResourceName": "string",
            "instanceSnapshotInfo": {
               "fromBlueprintId": "string",
               "fromBundleId": "string",
               "fromDiskInfo": [
                  {
                     "isSystemDisk": boolean,
                     "name": "string",
                     "path": "string",
                     "sizeInGb": number
                  }
               ]
            },
            "name": "string",
            "resourceType": "string"
         },
         "state": "string"
      }
   ],
   "nextPageToken": "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.

exportSnapshotRecords

A list of objects describing the export snapshot records.

Type: Array of ExportSnapshotRecord objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetExportSnapshotRecords` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetInstance

Returns information about a specific Amazon Lightsail instance, which is a virtual private server.

Request Syntax

```
{
   "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceName

The name of the instance.

Type: String

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

Required: Yes

Response Syntax

```
{
   "instance": {
      "addOns": [
         {
            "duration": "string",
            "name": "string",
            "nextSnapshotTimeOfDay": "string",
            "snapshotTimeOfDay": "string",
            "status": "string",
            "threshold": "string"
         }
      ],
      "arn": "string",
      "blueprintId": "string",
```

```
        "blueprintName": "string",
        "bundleId": "string",
        "createdAt": number,
        "hardware": {
           "cpuCount": number,
           "disks": [
              {
                 "addOns": [
                    {
                       "duration": "string",
                       "name": "string",
                       "nextSnapshotTimeOfDay": "string",
                       "snapshotTimeOfDay": "string",
                       "status": "string",
                       "threshold": "string"
                    }
                 ],
                 "arn": "string",
                 "attachedTo": "string",
                 "attachmentState": "string",
                 "autoMountStatus": "string",
                 "createdAt": number,
                 "gbInUse": number,
                 "iops": number,
                 "isAttached": boolean,
                 "isSystemDisk": boolean,
                 "location": {
                    "availabilityZone": "string",
                    "regionName": "string"
                 },
                 "name": "string",
                 "path": "string",
                 "resourceType": "string",
                 "sizeInGb": number,
                 "state": "string",
                 "supportCode": "string",
                 "tags": [
                    {
                       "key": "string",
                       "value": "string"
                    }
                 ]
              }
           ],
```

```
            "ramSizeInGb": number
        },
        "ipAddressType": "string",
        "ipv6Addresses": [ "string" ],
        "isStaticIp": boolean,
        "location": {
            "availabilityZone": "string",
            "regionName": "string"
        },
        "metadataOptions": {
            "httpEndpoint": "string",
            "httpProtocolIpv6": "string",
            "httpPutResponseHopLimit": number,
            "httpTokens": "string",
            "state": "string"
        },
        "name": "string",
        "networking": {
            "monthlyTransfer": {
                "gbPerMonthAllocated": number
            },
            "ports": [
                {
                    "accessDirection": "string",
                    "accessFrom": "string",
                    "accessType": "string",
                    "cidrListAliases": [ "string" ],
                    "cidrs": [ "string" ],
                    "commonName": "string",
                    "fromPort": number,
                    "ipv6Cidrs": [ "string" ],
                    "protocol": "string",
                    "toPort": number
                }
            ]
        },
        "privateIpAddress": "string",
        "publicIpAddress": "string",
        "resourceType": "string",
        "sshKeyName": "string",
        "state": {
            "code": number,
            "name": "string"
        },
```

```
        "supportCode": "string",
        "tags": [
           {
              "key": "string",
              "value": "string"
           }
        ],
        "username": "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.

instance

An array of key-value pairs containing information about the specified instance.

Type: Instance object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetInstanceAccessDetails

Returns temporary SSH keys you can use to connect to a specific virtual private server, or *instance*.

The `get instance access details` operation supports tag-based access control via resource tags applied to the resource identified by `instance name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "instanceName": "string",
   "protocol": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceName

The name of the instance to access.

Type: String

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

Required: Yes

protocol

The protocol to use to connect to your instance. Defaults to `ssh`.

Type: String

Valid Values: `ssh | rdp`

Required: No

Response Syntax

```
{
   "accessDetails": {
      "certKey": "string",
      "expiresAt": number,
      "hostKeys": [
         {
            "algorithm": "string",
            "fingerprintSHA1": "string",
            "fingerprintSHA256": "string",
            "notValidAfter": number,
            "notValidBefore": number,
            "publicKey": "string",
            "witnessedAt": number
         }
      ],
      "instanceName": "string",
      "ipAddress": "string",
      "ipv6Addresses": [ "string" ],
      "password": "string",
      "passwordData": {
         "ciphertext": "string",
         "keyPairName": "string"
      },
      "privateKey": "string",
      "protocol": "string",
      "username": "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.

accessDetails

An array of key-value pairs containing information about a get instance access request.

Type: InstanceAccessDetails object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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++
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- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetInstanceMetricData

Returns the data points for the specified Amazon Lightsail instance metric, given an instance name.

Metrics report the utilization of your resources, and the error counts generated by them. Monitor and collect metric data regularly to maintain the reliability, availability, and performance of your resources.

Request Syntax

```
{
   "endTime": number,
   "instanceName": "string",
   "metricName": "string",
   "period": number,
   "startTime": number,
   "statistics": [ "string" ],
   "unit": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

endTime

The end time of the time period.

Type: Timestamp

Required: Yes

instanceName

The name of the instance for which you want to get metrics data.

Type: String

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

Required: Yes

metricName

The metric for which you want to return information.

Valid instance metric names are listed below, along with the most useful `statistics` to include in your request, and the published `unit` value.

- **`BurstCapacityPercentage`** - The percentage of CPU performance available for your instance to burst above its baseline. Your instance continuously accrues and consumes burst capacity. Burst capacity stops accruing when your instance's `BurstCapacityPercentage` reaches 100%. For more information, see Viewing instance burst capacity in Amazon Lightsail.

  `Statistics`: The most useful statistics are `Maximum` and `Average`.

  `Unit`: The published unit is `Percent`.
- **`BurstCapacityTime`** - The available amount of time for your instance to burst at 100% CPU utilization. Your instance continuously accrues and consumes burst capacity. Burst capacity time stops accruing when your instance's `BurstCapacityPercentage` metric reaches 100%.

  Burst capacity time is consumed at the full rate only when your instance operates at 100% CPU utilization. For example, if your instance operates at 50% CPU utilization in the burstable zone for a 5-minute period, then it consumes CPU burst capacity minutes at a 50% rate in that period. Your instance consumed 2 minutes and 30 seconds of CPU burst capacity minutes in the 5-minute period. For more information, see Viewing instance burst capacity in Amazon Lightsail.

  `Statistics`: The most useful statistics are `Maximum` and `Average`.

  `Unit`: The published unit is `Seconds`.
- **`CPUUtilization`** - The percentage of allocated compute units that are currently in use on the instance. This metric identifies the processing power to run the applications on the instance. Tools in your operating system can show a lower percentage than Lightsail when the instance is not allocated a full processor core.

  `Statistics`: The most useful statistics are `Maximum` and `Average`.

  `Unit`: The published unit is `Percent`.

- **`NetworkIn`** - The number of bytes received on all network interfaces by the instance. This metric identifies the volume of incoming network traffic to the instance. The number reported is the number of bytes received during the period. Because this metric is reported in 5-minute intervals, divide the reported number by 300 to find Bytes/second.

  `Statistics`: The most useful statistic is `Sum`.

  `Unit`: The published unit is `Bytes`.
- **`NetworkOut`** - The number of bytes sent out on all network interfaces by the instance. This metric identifies the volume of outgoing network traffic from the instance. The number reported is the number of bytes sent during the period. Because this metric is reported in 5-minute intervals, divide the reported number by 300 to find Bytes/second.

  `Statistics`: The most useful statistic is `Sum`.

  `Unit`: The published unit is `Bytes`.
- **`StatusCheckFailed`** - Reports whether the instance passed or failed both the instance status check and the system status check. This metric can be either 0 (passed) or 1 (failed). This metric data is available in 1-minute (60 seconds) granularity.

  `Statistics`: The most useful statistic is `Sum`.

  `Unit`: The published unit is `Count`.
- **`StatusCheckFailed_Instance`** - Reports whether the instance passed or failed the instance status check. This metric can be either 0 (passed) or 1 (failed). This metric data is available in 1-minute (60 seconds) granularity.

  `Statistics`: The most useful statistic is `Sum`.

  `Unit`: The published unit is `Count`.
- **`StatusCheckFailed_System`** - Reports whether the instance passed or failed the system status check. This metric can be either 0 (passed) or 1 (failed). This metric data is available in 1-minute (60 seconds) granularity.

  `Statistics`: The most useful statistic is `Sum`.

  `Unit`: The published unit is `Count`.
- **`MetadataNoToken`** - Reports the number of times that the instance metadata service was successfully accessed without a token. This metric determines if there are any processes

accessing instance metadata by using Instance Metadata Service Version 1, which doesn't use a token. If all requests use token-backed sessions, such as Instance Metadata Service Version 2, then the value is 0.

`Statistics`: The most useful statistic is `Sum`.

`Unit`: The published unit is `Count`.

Type: String

Valid Values: `CPUUtilization | NetworkIn | NetworkOut | StatusCheckFailed | StatusCheckFailed_Instance | StatusCheckFailed_System | BurstCapacityTime | BurstCapacityPercentage | MetadataNoToken`

Required: Yes

period

The granularity, in seconds, of the returned data points.

The `StatusCheckFailed`, `StatusCheckFailed_Instance`, and `StatusCheckFailed_System` instance metric data is available in 1-minute (60 seconds) granularity. All other instance metric data is available in 5-minute (300 seconds) granularity.

Type: Integer

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

Required: Yes

startTime

The start time of the time period.

Type: Timestamp

Required: Yes

statistics

The statistic for the metric.

The following statistics are available:

- `Minimum` - The lowest value observed during the specified period. Use this value to determine low volumes of activity for your application.

- `Maximum` - The highest value observed during the specified period. Use this value to determine high volumes of activity for your application.
- `Sum` - All values submitted for the matching metric added together. You can use this statistic to determine the total volume of a metric.
- `Average` - The value of Sum / SampleCount during the specified period. By comparing this statistic with the Minimum and Maximum values, you can determine the full scope of a metric and how close the average use is to the Minimum and Maximum values. This comparison helps you to know when to increase or decrease your resources.
- `SampleCount` - The count, or number, of data points used for the statistical calculation.

Type: Array of strings

Valid Values: `Minimum | Maximum | Sum | Average | SampleCount`

Required: Yes

unit

The unit for the metric data request. Valid units depend on the metric data being requested. For the valid units to specify with each available metric, see the `metricName` parameter.

Type: String

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

Required: Yes

Response Syntax

```
{
   "metricData": [
      {
         "average": number,
         "maximum": number,
```

```
            "minimum": number,
            "sampleCount": number,
            "sum": number,
            "timestamp": number,
            "unit": "string"
        }
    ],
    "metricName": "string"
}
```

Response Elements

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

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

metricData

An array of objects that describe the metric data returned.

Type: Array of MetricDatapoint objects

metricName

The name of the metric returned.

Type: String

Valid Values: `CPUUtilization | NetworkIn | NetworkOut | StatusCheckFailed | StatusCheckFailed_Instance | StatusCheckFailed_System | BurstCapacityTime | BurstCapacityPercentage | MetadataNoToken`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetInstancePortStates

Returns the firewall port states for a specific Amazon Lightsail instance, the IP addresses allowed to connect to the instance through the ports, and the protocol.

Request Syntax

```
{
   "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceName

The name of the instance for which to return firewall port states.

Type: String

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

Required: Yes

Response Syntax

```
{
   "portStates": [
      {
         "cidrListAliases": [ "string" ],
         "cidrs": [ "string" ],
         "fromPort": number,
         "ipv6Cidrs": [ "string" ],
         "protocol": "string",
         "state": "string",
         "toPort": 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.

portStates

An array of objects that describe the firewall port states for the specified instance.

Type: Array of InstancePortState objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetInstances

Returns information about all Amazon Lightsail virtual private servers, or *instances*.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetInstances` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "instances": [
      {
         "addOns": [
            {
               "duration": "string",
               "name": "string",
               "nextSnapshotTimeOfDay": "string",
               "snapshotTimeOfDay": "string",
               "status": "string",
               "threshold": "string"
```

```
            }
        ],
        "arn": "string",
        "blueprintId": "string",
        "blueprintName": "string",
        "bundleId": "string",
        "createdAt": number,
        "hardware": {
            "cpuCount": number,
            "disks": [
                {
                    "addOns": [
                        {
                            "duration": "string",
                            "name": "string",
                            "nextSnapshotTimeOfDay": "string",
                            "snapshotTimeOfDay": "string",
                            "status": "string",
                            "threshold": "string"
                        }
                    ],
                    "arn": "string",
                    "attachedTo": "string",
                    "attachmentState": "string",
                    "autoMountStatus": "string",
                    "createdAt": number,
                    "gbInUse": number,
                    "iops": number,
                    "isAttached": boolean,
                    "isSystemDisk": boolean,
                    "location": {
                        "availabilityZone": "string",
                        "regionName": "string"
                    },
                    "name": "string",
                    "path": "string",
                    "resourceType": "string",
                    "sizeInGb": number,
                    "state": "string",
                    "supportCode": "string",
                    "tags": [
                        {
                            "key": "string",
                            "value": "string"
```

```
                    }
                ]
            }
        ],
        "ramSizeInGb": number
    },
    "ipAddressType": "string",
    "ipv6Addresses": [ "string" ],
    "isStaticIp": boolean,
    "location": {
        "availabilityZone": "string",
        "regionName": "string"
    },
    "metadataOptions": {
        "httpEndpoint": "string",
        "httpProtocolIpv6": "string",
        "httpPutResponseHopLimit": number,
        "httpTokens": "string",
        "state": "string"
    },
    "name": "string",
    "networking": {
        "monthlyTransfer": {
            "gbPerMonthAllocated": number
        },
        "ports": [
            {
                "accessDirection": "string",
                "accessFrom": "string",
                "accessType": "string",
                "cidrListAliases": [ "string" ],
                "cidrs": [ "string" ],
                "commonName": "string",
                "fromPort": number,
                "ipv6Cidrs": [ "string" ],
                "protocol": "string",
                "toPort": number
            }
        ]
    },
    "privateIpAddress": "string",
    "publicIpAddress": "string",
    "resourceType": "string",
    "sshKeyName": "string",
```

```
            "state": {
               "code": number,
               "name": "string"
            },
            "supportCode": "string",
            "tags": [
               {
                  "key": "string",
                  "value": "string"
               }
            ],
            "username": "string"
         }
      ],
      "nextPageToken": "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.

instances

An array of key-value pairs containing information about your instances.

Type: Array of Instance objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetInstances` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

Examples

In the following example or examples, the Authorization header contents (`AUTHPARAMS`) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the *AWS General Reference*.

You need to learn how to sign HTTP requests only if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

Get instances

The following example returns all instances in the `us-west-2` AWS Region.

Sample Request

```
POST / HTTP/1.1
Host: lightsail.us-west-2.amazonaws.com
```

```
Accept-Encoding: identity
X-Amz-Target: Lightsail_20161128.GetInstances
Content-Type: application/x-amz-json-1.1
User-Agent: AGENT
X-Amz-Date: 20201019T144314Z
Authorization: AUTHPARAMS
Signature=AUTHPARAMS
Content-Length: 2

{}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Mon, 22 Apr 2024 14:43:17 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 2750
x-amzn-RequestId: aaa1993d-8d60-4a13-899c-bEXAMPLE9bc7
Connection: keep-alive

{
    "instances": [
        {
            "addOns": [
                {
                    "name": "AutoSnapshot",
                    "snapshotTimeOfDay": "06:00",
                    "status": "Enabled"
                }
            ],
            "arn": "arn:aws:lightsail:us-west-2:111122223333:Instance/93d19bc4-
bd2a-4deb-9048-4EXAMPLE4236",
            "blueprintId": "wordpress",
            "blueprintName": "WordPress",
            "bundleId": "micro_3_0",
            "createdAt": 1.590771192493E9,
            "hardware": {
                "cpuCount": 2,
                "disks": [
                    {
                        "attachedTo": "WordPress-1",
                        "attachmentState": "attached",
```

```
                        "createdAt": 1.590771192493E9,
                        "iops": 120,
                        "isSystemDisk": true,
                        "path": "/dev/xvda",
                        "sizeInGb": 40
                    }
                ],
                "ramSizeInGb": 1.0
            },
            "isStaticIp": true,
            "location": {
                "availabilityZone": "us-west-2a",
                "regionName": "us-west-2"
            },
            "name": "WordPress-1",
            "networking": {
                "monthlyTransfer": {"gbPerMonthAllocated": 2048},
                "ports": [
                    {
                        "accessDirection": "inbound",
                        "accessFrom": "Anywhere (0.0.0.0/0)",
                        "accessType": "public",
                        "cidrListAliases": [],
                        "cidrs": ["0.0.0.0/0"],
                        "commonName": "",
                        "fromPort": 80,
                        "protocol": "tcp",
                        "toPort": 80
                    },
                    {
                        "accessDirection": "inbound",
                        "accessFrom": "Anywhere (0.0.0.0/0)",
                        "accessType": "public",
                        "cidrListAliases": [],
                        "cidrs": ["0.0.0.0/0"],
                        "commonName": "",
                        "fromPort": 22,
                        "protocol": "tcp",
                        "toPort": 22
                    },
                    {
                        "accessDirection": "inbound",
                        "accessFrom": "Anywhere (0.0.0.0/0)",
                        "accessType": "public",
```

```
                        "cidrListAliases": [],
                        "cidrs": ["0.0.0.0/0"],
                        "commonName": "",
                        "fromPort": 443,
                        "protocol": "tcp",
                        "toPort": 443
                    }
                ]
            },
            "privateIpAddress": "192.0.2.1",
            "publicIpAddress": "192.0.2.2",
            "resourceType": "Instance",
            "sshKeyName": "LightsailDefaultKeyPair",
            "state": {
                "code": 16,
                "name": "running"
            },
            "supportCode": "1234567890/i-0dEXAMPLE1abad00e",
            "tags": [],
            "username": "bitnami"
        },
        {
            "arn": "arn:aws:lightsail:us-west-2:111122223333:Instance/
bd08b156-5c35-4b89-9e90-8EXAMPLEd006",
            "blueprintId": "amazon_linux_2023",
            "blueprintName": "Amazon Linux 2023",
            "bundleId": "nano_3_0",
            "createdAt": 1.591802416964E9,
            "hardware": {
                "cpuCount": 2,
                "disks": [
                    {
                        "attachedTo": "Amazon_Linux-2023",
                        "attachmentState": "attached",
                        "createdAt": 1.591802416964E9,
                        "iops": 3000,
                        "isSystemDisk": true,
                        "path": "/dev/xvda",
                        "sizeInGb": 20
                    }
                ],
                "ramSizeInGb": 0.5
            },
            "isStaticIp": true,
```

```
            "location": {
                "availabilityZone": "us-west-2a",
                "regionName": "us-west-2"
            },
            "name": "Amazon_Linux-1",
            "networking": {
                "monthlyTransfer": {"gbPerMonthAllocated": 1024},
                "ports": [
                    {
                        "accessDirection": "inbound",
                        "accessFrom": "Anywhere (0.0.0.0/0)",
                        "accessType": "public",
                        "cidrListAliases": [],
                        "cidrs": ["0.0.0.0/0"],
                        "commonName": "",
                        "fromPort": 80,
                        "protocol": "tcp",
                        "toPort": 80
                    },
                    {
                        "accessDirection": "inbound",
                        "accessFrom": "Anywhere (0.0.0.0/0)",
                        "accessType": "public",
                        "cidrListAliases": [],
                        "cidrs": ["0.0.0.0/0"],
                        "commonName": "",
                        "fromPort": 22,
                        "protocol": "tcp",
                        "toPort": 22
                    }
                ]
            },
            "privateIpAddress": "192.0.2.3",
            "publicIpAddress": "192.0.2.4",
            "resourceType": "Instance",
            "sshKeyName": "LightsailDefaultKeyPair",
            "state": {
                "code": 16,
                "name": "running"
            },
            "supportCode": "1234567890/i-0dEXAMPLE1abad00e",
            "tags": [],
            "username": "ec2-user"
        }
```

```
    ]
}
```

See Also

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

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

GetInstanceSnapshot

Returns information about a specific instance snapshot.

Request Syntax

```
{
   "instanceSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceSnapshotName

The name of the snapshot for which you are requesting information.

Type: String

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

Required: Yes

Response Syntax

```
{
   "instanceSnapshot": {
      "arn": "string",
      "createdAt": number,
      "fromAttachedDisks": [
         {
            "addOns": [
               {
                  "duration": "string",
                  "name": "string",
                  "nextSnapshotTimeOfDay": "string",
                  "snapshotTimeOfDay": "string",
                  "status": "string",
                  "threshold": "string"
```

```
                }
            ],
            "arn": "string",
            "attachedTo": "string",
            "attachmentState": "string",
            "autoMountStatus": "string",
            "createdAt": number,
            "gbInUse": number,
            "iops": number,
            "isAttached": boolean,
            "isSystemDisk": boolean,
            "location": {
                "availabilityZone": "string",
                "regionName": "string"
            },
            "name": "string",
            "path": "string",
            "resourceType": "string",
            "sizeInGb": number,
            "state": "string",
            "supportCode": "string",
            "tags": [
                {
                    "key": "string",
                    "value": "string"
                }
            ]
        }
    ],
    "fromBlueprintId": "string",
    "fromBundleId": "string",
    "fromInstanceArn": "string",
    "fromInstanceName": "string",
    "isFromAutoSnapshot": boolean,
    "location": {
        "availabilityZone": "string",
        "regionName": "string"
    },
    "name": "string",
    "progress": "string",
    "resourceType": "string",
    "sizeInGb": number,
    "state": "string",
    "supportCode": "string",
```

```
        "tags": [
            {
                "key": "string",
                "value": "string"
            }
        ]
    }
}
```

Response Elements

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

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

instanceSnapshot

An array of key-value pairs containing information about the results of your get instance snapshot request.

Type: InstanceSnapshot object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetInstanceSnapshots

Returns all instance snapshots for the user's account.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetInstanceSnapshots` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "instanceSnapshots": [
      {
         "arn": "string",
         "createdAt": number,
         "fromAttachedDisks": [
            {
               "addOns": [
                  {
                     "duration": "string",
                     "name": "string",
```

```
                "nextSnapshotTimeOfDay": "string",
                "snapshotTimeOfDay": "string",
                "status": "string",
                "threshold": "string"
            }
        ],
        "arn": "string",
        "attachedTo": "string",
        "attachmentState": "string",
        "autoMountStatus": "string",
        "createdAt": number,
        "gbInUse": number,
        "iops": number,
        "isAttached": boolean,
        "isSystemDisk": boolean,
        "location": {
            "availabilityZone": "string",
            "regionName": "string"
        },
        "name": "string",
        "path": "string",
        "resourceType": "string",
        "sizeInGb": number,
        "state": "string",
        "supportCode": "string",
        "tags": [
            {
                "key": "string",
                "value": "string"
            }
        ]
    }
],
"fromBlueprintId": "string",
"fromBundleId": "string",
"fromInstanceArn": "string",
"fromInstanceName": "string",
"isFromAutoSnapshot": boolean,
"location": {
    "availabilityZone": "string",
    "regionName": "string"
},
"name": "string",
"progress": "string",
```

```
            "resourceType": "string",
            "sizeInGb": number,
            "state": "string",
            "supportCode": "string",
            "tags": [
               {
                  "key": "string",
                  "value": "string"
               }
            ]
         }
      ],
      "nextPageToken": "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.

instanceSnapshots

An array of key-value pairs containing information about the results of your get instance snapshots request.

Type: Array of InstanceSnapshot objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetInstanceSnapshots` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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++
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- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetInstanceState

Returns the state of a specific instance. Works on one instance at a time.

Request Syntax

```
{
   "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceName

The name of the instance to get state information about.

Type: String

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

Required: Yes

Response Syntax

```
{
   "state": {
      "code": number,
      "name": "string"
   }
}
```

Response Elements

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

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

state

The state of the instance.

Type: InstanceState object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetKeyPair

Returns information about a specific key pair.

Request Syntax

```
{
   "keyPairName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

keyPairName

The name of the key pair for which you are requesting information.

Type: String

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

Required: Yes

Response Syntax

```
{
   "keyPair": {
      "arn": "string",
      "createdAt": number,
      "fingerprint": "string",
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "name": "string",
      "resourceType": "string",
      "supportCode": "string",
```

```
        "tags": [
           {
              "key": "string",
              "value": "string"
           }
        ]
    }
}
```

Response Elements

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

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

keyPair

An array of key-value pairs containing information about the key pair.

Type: KeyPair object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetKeyPairs

Returns information about all key pairs in the user's account.

Request Syntax

```
{
   "includeDefaultKeyPair": boolean,
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

includeDefaultKeyPair

A Boolean value that indicates whether to include the default key pair in the response of your request.

Type: Boolean

Required: No

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetKeyPairs` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
```

```
    "keyPairs": [
       {
          "arn": "string",
          "createdAt": number,
          "fingerprint": "string",
          "location": {
             "availabilityZone": "string",
             "regionName": "string"
          },
          "name": "string",
          "resourceType": "string",
          "supportCode": "string",
          "tags": [
             {
                "key": "string",
                "value": "string"
             }
          ]
       }
    ],
    "nextPageToken": "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.

keyPairs

An array of key-value pairs containing information about the key pairs.

Type: Array of KeyPair objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetKeyPairs` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetLoadBalancer

Returns information about the specified Lightsail load balancer.

Request Syntax

```
{
   "loadBalancerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

loadBalancerName

The name of the load balancer.

Type: String

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

Required: Yes

Response Syntax

```
{
   "loadBalancer": {
      "arn": "string",
      "configurationOptions": {
         "string" : "string"
      },
      "createdAt": number,
      "dnsName": "string",
      "healthCheckPath": "string",
      "httpsRedirectionEnabled": boolean,
      "instanceHealthSummary": [
         {
            "instanceHealth": "string",
```

```
            "instanceHealthReason": "string",
            "instanceName": "string"
         }
      ],
      "instancePort": number,
      "ipAddressType": "string",
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "name": "string",
      "protocol": "string",
      "publicPorts": [ number ],
      "resourceType": "string",
      "state": "string",
      "supportCode": "string",
      "tags": [
         {
            "key": "string",
            "value": "string"
         }
      ],
      "tlsCertificateSummaries": [
         {
            "isAttached": boolean,
            "name": "string"
         }
      ],
      "tlsPolicyName": "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.

loadBalancer

An object containing information about your load balancer.

Type: LoadBalancer object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetLoadBalancerMetricData

Returns information about health metrics for your Lightsail load balancer.

Metrics report the utilization of your resources, and the error counts generated by them. Monitor and collect metric data regularly to maintain the reliability, availability, and performance of your resources.

Request Syntax

```
{
   "endTime": number,
   "loadBalancerName": "string",
   "metricName": "string",
   "period": number,
   "startTime": number,
   "statistics": [ "string" ],
   "unit": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

endTime

The end time of the period.

Type: Timestamp

Required: Yes

loadBalancerName

The name of the load balancer.

Type: String

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

Required: Yes

metricName

The metric for which you want to return information.

Valid load balancer metric names are listed below, along with the most useful `statistics` to include in your request, and the published `unit` value.

- **`ClientTLSNegotiationErrorCount`** - The number of TLS connections initiated by the client that did not establish a session with the load balancer due to a TLS error generated by the load balancer. Possible causes include a mismatch of ciphers or protocols.

  `Statistics`: The most useful statistic is `Sum`.

  `Unit`: The published unit is `Count`.
- **`HealthyHostCount`** - The number of target instances that are considered healthy.

  `Statistics`: The most useful statistic are `Average`, `Minimum`, and `Maximum`.

  `Unit`: The published unit is `Count`.
- **`HTTPCode_Instance_2XX_Count`** - The number of HTTP 2XX response codes generated by the target instances. This does not include any response codes generated by the load balancer.

  `Statistics`: The most useful statistic is `Sum`. Note that `Minimum`, `Maximum`, and `Average` all return 1.

  `Unit`: The published unit is `Count`.
- **`HTTPCode_Instance_3XX_Count`** - The number of HTTP 3XX response codes generated by the target instances. This does not include any response codes generated by the load balancer.

  `Statistics`: The most useful statistic is `Sum`. Note that `Minimum`, `Maximum`, and `Average` all return 1.

  `Unit`: The published unit is `Count`.
- **`HTTPCode_Instance_4XX_Count`** - The number of HTTP 4XX response codes generated by the target instances. This does not include any response codes generated by the load balancer.

`Statistics`: The most useful statistic is `Sum`. Note that `Minimum`, `Maximum`, and `Average` all return `1`.

`Unit`: The published unit is `Count`.

- **`HTTPCode_Instance_5XX_Count`** - The number of HTTP 5XX response codes generated by the target instances. This does not include any response codes generated by the load balancer.

  `Statistics`: The most useful statistic is `Sum`. Note that `Minimum`, `Maximum`, and `Average` all return `1`.

  `Unit`: The published unit is `Count`.

- **`HTTPCode_LB_4XX_Count`** - The number of HTTP 4XX client error codes that originated from the load balancer. Client errors are generated when requests are malformed or incomplete. These requests were not received by the target instance. This count does not include response codes generated by the target instances.

  `Statistics`: The most useful statistic is `Sum`. Note that `Minimum`, `Maximum`, and `Average` all return `1`.

  `Unit`: The published unit is `Count`.

- **`HTTPCode_LB_5XX_Count`** - The number of HTTP 5XX server error codes that originated from the load balancer. This does not include any response codes generated by the target instance. This metric is reported if there are no healthy instances attached to the load balancer, or if the request rate exceeds the capacity of the instances (spillover) or the load balancer.

  `Statistics`: The most useful statistic is `Sum`. Note that `Minimum`, `Maximum`, and `Average` all return `1`.

  `Unit`: The published unit is `Count`.

- **`InstanceResponseTime`** - The time elapsed, in seconds, after the request leaves the load balancer until a response from the target instance is received.

  `Statistics`: The most useful statistic is `Average`.

  `Unit`: The published unit is `Seconds`.

- **`RejectedConnectionCount`** - The number of connections that were rejected because the load balancer had reached its maximum number of connections.

  `Statistics`: The most useful statistic is `Sum`.

  `Unit`: The published unit is `Count`.
- **`RequestCount`** - The number of requests processed over IPv4. This count includes only the requests with a response generated by a target instance of the load balancer.

  `Statistics`: The most useful statistic is `Sum`. Note that `Minimum`, `Maximum`, and `Average` all return 1.

  `Unit`: The published unit is `Count`.
- **`UnhealthyHostCount`** - The number of target instances that are considered unhealthy.

  `Statistics`: The most useful statistic are `Average`, `Minimum`, and `Maximum`.

  `Unit`: The published unit is `Count`.

Type: String

Valid Values: `ClientTLSNegotiationErrorCount | HealthyHostCount | UnhealthyHostCount | HTTPCode_LB_4XX_Count | HTTPCode_LB_5XX_Count | HTTPCode_Instance_2XX_Count | HTTPCode_Instance_3XX_Count | HTTPCode_Instance_4XX_Count | HTTPCode_Instance_5XX_Count | InstanceResponseTime | RejectedConnectionCount | RequestCount`

Required: Yes

period

The granularity, in seconds, of the returned data points.

Type: Integer

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

Required: Yes

startTime

The start time of the period.

Type: Timestamp

Required: Yes

statistics

The statistic for the metric.

The following statistics are available:

- `Minimum` - The lowest value observed during the specified period. Use this value to determine low volumes of activity for your application.
- `Maximum` - The highest value observed during the specified period. Use this value to determine high volumes of activity for your application.
- `Sum` - All values submitted for the matching metric added together. You can use this statistic to determine the total volume of a metric.
- `Average` - The value of Sum / SampleCount during the specified period. By comparing this statistic with the Minimum and Maximum values, you can determine the full scope of a metric and how close the average use is to the Minimum and Maximum values. This comparison helps you to know when to increase or decrease your resources.
- `SampleCount` - The count, or number, of data points used for the statistical calculation.

Type: Array of strings

Valid Values: `Minimum | Maximum | Sum | Average | SampleCount`

Required: Yes

unit

The unit for the metric data request. Valid units depend on the metric data being requested. For the valid units with each available metric, see the `metricName` parameter.

Type: String

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

Required: Yes

Response Syntax

```
{
   "metricData": [
      {
         "average": number,
         "maximum": number,
         "minimum": number,
         "sampleCount": number,
         "sum": number,
         "timestamp": number,
         "unit": "string"
      }
   ],
   "metricName": "string"
}
```

Response Elements

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

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

metricData

An array of objects that describe the metric data returned.

Type: Array of MetricDatapoint objects

metricName

The name of the metric returned.

Type: String

Valid Values: `ClientTLSNegotiationErrorCount | HealthyHostCount | UnhealthyHostCount | HTTPCode_LB_4XX_Count | HTTPCode_LB_5XX_Count | HTTPCode_Instance_2XX_Count | HTTPCode_Instance_3XX_Count | HTTPCode_Instance_4XX_Count | HTTPCode_Instance_5XX_Count | InstanceResponseTime | RejectedConnectionCount | RequestCount`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetLoadBalancers

Returns information about all load balancers in an account.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetLoadBalancers` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "loadBalancers": [
      {
         "arn": "string",
         "configurationOptions": {
            "string" : "string"
         },
         "createdAt": number,
         "dnsName": "string",
         "healthCheckPath": "string",
```

```
            "httpsRedirectionEnabled": boolean,
            "instanceHealthSummary": [
               {
                  "instanceHealth": "string",
                  "instanceHealthReason": "string",
                  "instanceName": "string"
               }
            ],
            "instancePort": number,
            "ipAddressType": "string",
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "name": "string",
            "protocol": "string",
            "publicPorts": [ number ],
            "resourceType": "string",
            "state": "string",
            "supportCode": "string",
            "tags": [
               {
                  "key": "string",
                  "value": "string"
               }
            ],
            "tlsCertificateSummaries": [
               {
                  "isAttached": boolean,
                  "name": "string"
               }
            ],
            "tlsPolicyName": "string"
         }
      ],
      "nextPageToken": "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.

loadBalancers

An array of LoadBalancer objects describing your load balancers.

Type: Array of LoadBalancer objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetLoadBalancers` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for Kotlin
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- AWS SDK for Ruby V3

GetLoadBalancerTlsCertificates

Returns information about the TLS certificates that are associated with the specified Lightsail load balancer.

TLS is just an updated, more secure version of Secure Socket Layer (SSL).

You can have a maximum of 2 certificates associated with a Lightsail load balancer. One is active and the other is inactive.

Request Syntax

```
{
   "loadBalancerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

loadBalancerName

The name of the load balancer you associated with your SSL/TLS certificate.

Type: String

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

Required: Yes

Response Syntax

```
{
   "tlsCertificates": [
      {
         "arn": "string",
         "createdAt": number,
         "domainName": "string",
         "domainValidationRecords": [
            {
```

```
                "dnsRecordCreationState": {
                   "code": "string",
                   "message": "string"
                },
                "domainName": "string",
                "name": "string",
                "type": "string",
                "validationStatus": "string",
                "value": "string"
             }
          ],
          "failureReason": "string",
          "isAttached": boolean,
          "issuedAt": number,
          "issuer": "string",
          "keyAlgorithm": "string",
          "loadBalancerName": "string",
          "location": {
             "availabilityZone": "string",
             "regionName": "string"
          },
          "name": "string",
          "notAfter": number,
          "notBefore": number,
          "renewalSummary": {
             "domainValidationOptions": [
                {
                   "domainName": "string",
                   "validationStatus": "string"
                }
             ],
             "renewalStatus": "string"
          },
          "resourceType": "string",
          "revocationReason": "string",
          "revokedAt": number,
          "serial": "string",
          "signatureAlgorithm": "string",
          "status": "string",
          "subject": "string",
          "subjectAlternativeNames": [ "string" ],
          "supportCode": "string",
          "tags": [
             {
```

```
                "key": "string",
                "value": "string"
            }
        ]
    }
  ]
}
```

Response Elements

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

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

tlsCertificates

An array of LoadBalancerTlsCertificate objects describing your SSL/TLS certificates.

Type: Array of LoadBalancerTlsCertificate objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

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Regions and Availability Zones for Lightsail

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetLoadBalancerTlsPolicies

Returns a list of TLS security policies that you can apply to Lightsail load balancers.

For more information about load balancer TLS security policies, see Configuring TLS security policies on your Amazon Lightsail load balancers in the *Amazon Lightsail Developer Guide*.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetLoadBalancerTlsPolicies` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "nextPageToken": "string",
   "tlsPolicies": [
      {
         "ciphers": [ "string" ],
         "description": "string",
         "isDefault": boolean,
```

```
            "name": "string",
            "protocols": [ "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.

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetLoadBalancerTlsPolicies` request and specify the next page token using the `pageToken` parameter.

Type: String

tlsPolicies

An array of objects that describe the TLS security policies that are available.

Type: Array of LoadBalancerTlsPolicy objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for JavaScript V3
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- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetOperation

Returns information about a specific operation. Operations include events such as when you create an instance, allocate a static IP, attach a static IP, and so on.

Request Syntax

```
{
   "operationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

operationId

A GUID used to identify the operation.

Type: String

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
```

```
        "operationDetails": "string",
        "operationType": "string",
        "resourceName": "string",
        "resourceType": "string",
        "status": "string",
        "statusChangedAt": 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.

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetOperations

Returns information about all operations.

Results are returned from oldest to newest, up to a maximum of 200. Results can be paged by making each subsequent call to `GetOperations` use the maximum (last) `statusChangedAt` value from the previous request.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetOperations` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "nextPageToken": "string",
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
```

```
            "id": "string",
            "isTerminal": boolean,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetOperations` request and specify the next page token using the `pageToken` parameter.

Type: String

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

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>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for Go v2
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- AWS SDK for JavaScript V3
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- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetOperationsForResource

Gets operations for a specific resource (an instance or a static IP).

Request Syntax

```
{
   "pageToken": "string",
   "resourceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetOperationsForResource` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

resourceName

The name of the resource for which you are requesting information.

Type: String

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

Required: Yes

Response Syntax

```
{
```

```
    "nextPageCount": "string",
    "nextPageToken": "string",
    "operations": [
       {
          "createdAt": number,
          "errorCode": "string",
          "errorDetails": "string",
          "id": "string",
          "isTerminal": boolean,
          "location": {
             "availabilityZone": "string",
             "regionName": "string"
          },
          "operationDetails": "string",
          "operationType": "string",
          "resourceName": "string",
          "resourceType": "string",
          "status": "string",
          "statusChangedAt": 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.

nextPageCount

This parameter has been deprecated.

(Discontinued) Returns the number of pages of results that remain.

> **Note**
>
> In releases prior to June 12, 2017, this parameter returned `null` by the API. It is now discontinued, and the API returns the `next page token` parameter instead.

Type: String

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetOperationsForResource` request and specify the next page token using the `pageToken` parameter.

Type: String

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
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GetProfile

Returns information about the profile of the Amazon Lightsail account that makes the request. The response includes the profile type and, for accounts enrolled in the Lightsail partner program, the partner membership details.

Response Syntax

```
{
   "partner": {
      "enrolledAt": number,
      "status": "string",
      "tierName": "string"
   },
   "profileType": "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.

partner

An object that describes the partner membership of the account, such as the tier of the membership, its status, and when the account was enrolled.

This parameter is returned only for accounts that have a `profileType` of `LightsailPartner`.

Type: PartnerInfo object

profileType

The type of the profile.

The following profile types are possible:

- `Lightsailor` – The account is not enrolled in the Lightsail partner program.
- `LightsailPartner` – The account is enrolled in the Lightsail partner program.

Type: String

Valid Values: `Lightsailor | LightsailPartner`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetRegions

Returns a list of all valid regions for Amazon Lightsail. Use the `include availability zones` parameter to also return the Availability Zones in a region.

Request Syntax

```
{
   "includeAvailabilityZones": boolean,
   "includeRelationalDatabaseAvailabilityZones": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

includeAvailabilityZones

A Boolean value indicating whether to also include Availability Zones in your get regions request. Availability Zones are indicated with a letter: `us-east-2a`.

Type: Boolean

Required: No

includeRelationalDatabaseAvailabilityZones

A Boolean value indicating whether to also include Availability Zones for databases in your get regions request. Availability Zones are indicated with a letter (`us-east-2a`).

Type: Boolean

Required: No

Response Syntax

```
{
   "regions": [
      {
```

```
            "availabilityZones": [
               {
                  "state": "string",
                  "zoneName": "string"
               }
            ],
            "continentCode": "string",
            "description": "string",
            "displayName": "string",
            "name": "string",
            "relationalDatabaseAvailabilityZones": [
               {
                  "state": "string",
                  "zoneName": "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.

regions

An array of key-value pairs containing information about your get regions request.

Type: Array of Region objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetRelationalDatabase

Returns information about a specific database in Amazon Lightsail.

Request Syntax

```
{
   "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

relationalDatabaseName

The name of the database that you are looking up.

Type: String

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

Required: Yes

Response Syntax

```
{
   "relationalDatabase": {
      "arn": "string",
      "backupRetentionEnabled": boolean,
      "caCertificateIdentifier": "string",
      "createdAt": number,
      "engine": "string",
      "engineVersion": "string",
      "hardware": {
         "cpuCount": number,
         "diskSizeInGb": number,
         "ramSizeInGb": number
      },
      "latestRestorableTime": number,
```

```
        "location": {
           "availabilityZone": "string",
           "regionName": "string"
        },
        "masterDatabaseName": "string",
        "masterEndpoint": {
           "address": "string",
           "port": number
        },
        "masterUsername": "string",
        "name": "string",
        "parameterApplyStatus": "string",
        "pendingMaintenanceActions": [
           {
              "action": "string",
              "currentApplyDate": number,
              "description": "string"
           }
        ],
        "pendingModifiedValues": {
           "backupRetentionEnabled": boolean,
           "engineVersion": "string",
           "masterUserPassword": "string"
        },
        "preferredBackupWindow": "string",
        "preferredMaintenanceWindow": "string",
        "publiclyAccessible": boolean,
        "relationalDatabaseBlueprintId": "string",
        "relationalDatabaseBundleId": "string",
        "resourceType": "string",
        "secondaryAvailabilityZone": "string",
        "state": "string",
        "supportCode": "string",
        "tags": [
           {
              "key": "string",
              "value": "string"
           }
        ]
    }
}
```

Response Elements

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

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

relationalDatabase

An object describing the specified database.

Type: RelationalDatabase object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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++
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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetRelationalDatabaseBlueprints

Returns a list of available database blueprints in Amazon Lightsail. A blueprint describes the major engine version of a database.

You can use a blueprint ID to create a new database that runs a specific database engine.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetRelationalDatabaseBlueprints` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "blueprints": [
      {
         "blueprintId": "string",
         "engine": "string",
         "engineDescription": "string",
         "engineVersion": "string",
```

```
            "engineVersionDescription": "string",
            "isEngineDefault": boolean
        }
    ],
    "nextPageToken": "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.

blueprints

An object describing the result of your get relational database blueprints request.

Type: Array of RelationalDatabaseBlueprint objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetRelationalDatabaseBlueprints` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetRelationalDatabaseBundles

Returns the list of bundles that are available in Amazon Lightsail. A bundle describes the performance specifications for a database.

You can use a bundle ID to create a new database with explicit performance specifications.

Request Syntax

```
{
   "includeInactive": boolean,
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

includeInactive

A Boolean value that indicates whether to include inactive (unavailable) bundles in the response of your request.

Type: Boolean

Required: No

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetRelationalDatabaseBundles` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "bundles": [
      {
         "bundleId": "string",
         "cpuCount": number,
         "diskSizeInGb": number,
         "isActive": boolean,
         "isEncrypted": boolean,
         "name": "string",
         "price": number,
         "ramSizeInGb": number,
         "transferPerMonthInGb": number
      }
   ],
   "nextPageToken": "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.

bundles

An object describing the result of your get relational database bundles request.

Type: Array of RelationalDatabaseBundle objects

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetRelationalDatabaseBundles` request and specify the next page token using the `pageToken` parameter.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetRelationalDatabaseEvents

Returns a list of events for a specific database in Amazon Lightsail.

Request Syntax

```
{
   "durationInMinutes": number,
   "pageToken": "string",
   "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

durationInMinutes

The number of minutes in the past from which to retrieve events. For example, to get all events from the past 2 hours, enter 120.

Default: `60`

The minimum is 1 and the maximum is 14 days (20160 minutes).

Type: Integer

Required: No

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetRelationalDatabaseEvents` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

relationalDatabaseName

The name of the database from which to get events.

Type: String

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

Required: Yes

Response Syntax

```
{
   "nextPageToken": "string",
   "relationalDatabaseEvents": [
      {
         "createdAt": number,
         "eventCategories": [ "string" ],
         "message": "string",
         "resource": "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.

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetRelationalDatabaseEvents` request and specify the next page token using the `pageToken` parameter.

Type: String

relationalDatabaseEvents

An object describing the result of your get relational database events request.

Type: Array of RelationalDatabaseEvent objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetRelationalDatabaseLogEvents

Returns a list of log events for a database in Amazon Lightsail.

Request Syntax

```
{
   "endTime": number,
   "logStreamName": "string",
   "pageToken": "string",
   "relationalDatabaseName": "string",
   "startFromHead": boolean,
   "startTime": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

endTime

The end of the time interval from which to get log events.

Constraints:

- Specified in Coordinated Universal Time (UTC).
- Specified in the Unix time format.

  For example, if you wish to use an end time of October 1, 2018, at 8 PM UTC, then you input `1538424000` as the end time.

Type: Timestamp

Required: No

logStreamName

The name of the log stream.

Use the `get relational database log streams` operation to get a list of available log streams.

Type: String

Required: Yes

pageToken

The token to advance to the next or previous page of results from your request.

To get a page token, perform an initial `GetRelationalDatabaseLogEvents` request. If your results are paginated, the response will return a next forward token and/or next backward token that you can specify as the page token in a subsequent request.

Type: String

Required: No

relationalDatabaseName

The name of your database for which to get log events.

Type: String

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

Required: Yes

startFromHead

Parameter to specify if the log should start from head or tail. If `true` is specified, the log event starts from the head of the log. If `false` is specified, the log event starts from the tail of the log.

> **Note**
>
> For PostgreSQL, the default value of `false` is the only option available.

Type: Boolean

Required: No

startTime

The start of the time interval from which to get log events.

Constraints:

- Specified in Coordinated Universal Time (UTC).
- Specified in the Unix time format.

  For example, if you wish to use a start time of October 1, 2018, at 8 PM UTC, then you input `1538424000` as the start time.

Type: Timestamp

Required: No

Response Syntax

```
{
   "nextBackwardToken": "string",
   "nextForwardToken": "string",
   "resourceLogEvents": [
      {
         "createdAt": number,
         "message": "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.

nextBackwardToken

A token used for advancing to the previous page of results from your get relational database log events request.

Type: String

nextForwardToken

A token used for advancing to the next page of results from your get relational database log events request.

Type: String

resourceLogEvents

An object describing the result of your get relational database log events request.

Type: Array of LogEvent objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetRelationalDatabaseLogStreams

Returns a list of available log streams for a specific database in Amazon Lightsail.

Request Syntax

```
{
   "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

relationalDatabaseName

The name of your database for which to get log streams.

Type: String

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

Required: Yes

Response Syntax

```
{
   "logStreams": [ "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.

logStreams

An object describing the result of your get relational database log streams request.

Type: Array of strings

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetRelationalDatabaseMasterUserPassword

Returns the current, previous, or pending versions of the master user password for a Lightsail database.

The `GetRelationalDatabaseMasterUserPassword` operation supports tag-based access control via resource tags applied to the resource identified by relationalDatabaseName.

Request Syntax

```
{
   "passwordVersion": "string",
   "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

passwordVersion

The password version to return.

Specifying `CURRENT` or `PREVIOUS` returns the current or previous passwords respectively. Specifying `PENDING` returns the newest version of the password that will rotate to `CURRENT`. After the `PENDING` password rotates to `CURRENT`, the `PENDING` password is no longer available.

Default: `CURRENT`

Type: String

Valid Values: `CURRENT | PREVIOUS | PENDING`

Required: No

relationalDatabaseName

The name of your database for which to get the master user password.

Type: String

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

Required: Yes

Response Syntax

```
{
   "createdAt": number,
   "masterUserPassword": "string"
}
```

Response Elements

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

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

createdAt

The timestamp when the specified version of the master user password was created.

Type: Timestamp

masterUserPassword

The master user password for the `password version` specified.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetRelationalDatabaseMetricData

Returns the data points of the specified metric for a database in Amazon Lightsail.

Metrics report the utilization of your resources, and the error counts generated by them. Monitor and collect metric data regularly to maintain the reliability, availability, and performance of your resources.

Request Syntax

```
{
   "endTime": number,
   "metricName": "string",
   "period": number,
   "relationalDatabaseName": "string",
   "startTime": number,
   "statistics": [ "string" ],
   "unit": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

endTime

The end of the time interval from which to get metric data.

Constraints:

- Specified in Coordinated Universal Time (UTC).
- Specified in the Unix time format.

  For example, if you wish to use an end time of October 1, 2018, at 8 PM UTC, then you input `1538424000` as the end time.

Type: Timestamp

Required: Yes

metricName

The metric for which you want to return information.

Valid relational database metric names are listed below, along with the most useful `statistics` to include in your request, and the published `unit` value. All relational database metric data is available in 1-minute (60 seconds) granularity.

- **`CPUUtilization`** - The percentage of CPU utilization currently in use on the database.

  `Statistics`: The most useful statistics are `Maximum` and `Average`.

  `Unit`: The published unit is `Percent`.
- **`DatabaseConnections`** - The number of database connections in use.

  `Statistics`: The most useful statistics are `Maximum` and `Sum`.

  `Unit`: The published unit is `Count`.
- **`DiskQueueDepth`** - The number of outstanding IOs (read/write requests) that are waiting to access the disk.

  `Statistics`: The most useful statistic is `Sum`.

  `Unit`: The published unit is `Count`.
- **`FreeStorageSpace`** - The amount of available storage space.

  `Statistics`: The most useful statistic is `Sum`.

  `Unit`: The published unit is `Bytes`.
- **`NetworkReceiveThroughput`** - The incoming (Receive) network traffic on the database, including both customer database traffic and AWS traffic used for monitoring and replication.

  `Statistics`: The most useful statistic is `Average`.

  `Unit`: The published unit is `Bytes/Second`.
- **`NetworkTransmitThroughput`** - The outgoing (Transmit) network traffic on the database, including both customer database traffic and AWS traffic used for monitoring and replication.

  `Statistics`: The most useful statistic is `Average`.

  `Unit`: The published unit is `Bytes/Second`.

Type: String

Valid Values: `CPUUtilization | DatabaseConnections | DiskQueueDepth | FreeStorageSpace | NetworkReceiveThroughput | NetworkTransmitThroughput | FreeableMemory | SwapUsage`

Required: Yes

period

The granularity, in seconds, of the returned data points.

All relational database metric data is available in 1-minute (60 seconds) granularity.

Type: Integer

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

Required: Yes

relationalDatabaseName

The name of your database from which to get metric data.

Type: String

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

Required: Yes

startTime

The start of the time interval from which to get metric data.

Constraints:

- Specified in Coordinated Universal Time (UTC).
- Specified in the Unix time format.

  For example, if you wish to use a start time of October 1, 2018, at 8 PM UTC, then you input `1538424000` as the start time.

Type: Timestamp

Required: Yes

statistics

The statistic for the metric.

The following statistics are available:

- `Minimum` - The lowest value observed during the specified period. Use this value to determine low volumes of activity for your application.
- `Maximum` - The highest value observed during the specified period. Use this value to determine high volumes of activity for your application.
- `Sum` - All values submitted for the matching metric added together. You can use this statistic to determine the total volume of a metric.
- `Average` - The value of Sum / SampleCount during the specified period. By comparing this statistic with the Minimum and Maximum values, you can determine the full scope of a metric and how close the average use is to the Minimum and Maximum values. This comparison helps you to know when to increase or decrease your resources.
- `SampleCount` - The count, or number, of data points used for the statistical calculation.

Type: Array of strings

Valid Values: `Minimum | Maximum | Sum | Average | SampleCount`

Required: Yes

unit

The unit for the metric data request. Valid units depend on the metric data being requested. For the valid units with each available metric, see the `metricName` parameter.

Type: String

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

Required: Yes

Response Syntax

```
{
   "metricData": [
      {
         "average": number,
         "maximum": number,
         "minimum": number,
         "sampleCount": number,
         "sum": number,
         "timestamp": number,
         "unit": "string"
      }
   ],
   "metricName": "string"
}
```

Response Elements

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

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

metricData

An array of objects that describe the metric data returned.

Type: Array of MetricDatapoint objects

metricName

The name of the metric returned.

Type: String

Valid Values: `CPUUtilization | DatabaseConnections | DiskQueueDepth | FreeStorageSpace | NetworkReceiveThroughput | NetworkTransmitThroughput | FreeableMemory | SwapUsage`

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetRelationalDatabaseParameters

Returns all of the runtime parameters offered by the underlying database software, or engine, for a specific database in Amazon Lightsail.

In addition to the parameter names and values, this operation returns other information about each parameter. This information includes whether changes require a reboot, whether the parameter is modifiable, the allowed values, and the data types.

Request Syntax

```
{
   "pageToken": "string",
   "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetRelationalDatabaseParameters` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

relationalDatabaseName

The name of your database for which to get parameters.

Type: String

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

Required: Yes

Response Syntax

```
{
   "nextPageToken": "string",
   "parameters": [
      {
         "allowedValues": "string",
         "applyMethod": "string",
         "applyType": "string",
         "dataType": "string",
         "description": "string",
         "isModifiable": boolean,
         "parameterName": "string",
         "parameterValue": "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.

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetRelationalDatabaseParameters` request and specify the next page token using the `pageToken` parameter.

Type: String

parameters

An object describing the result of your get relational database parameters request.

Type: Array of RelationalDatabaseParameter objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetRelationalDatabases

Returns information about all of your databases in Amazon Lightsail.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetRelationalDatabases` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "nextPageToken": "string",
   "relationalDatabases": [
      {
         "arn": "string",
         "backupRetentionEnabled": boolean,
         "caCertificateIdentifier": "string",
         "createdAt": number,
         "engine": "string",
         "engineVersion": "string",
         "hardware": {
```

```
            "cpuCount": number,
            "diskSizeInGb": number,
            "ramSizeInGb": number
        },
        "latestRestorableTime": number,
        "location": {
            "availabilityZone": "string",
            "regionName": "string"
        },
        "masterDatabaseName": "string",
        "masterEndpoint": {
            "address": "string",
            "port": number
        },
        "masterUsername": "string",
        "name": "string",
        "parameterApplyStatus": "string",
        "pendingMaintenanceActions": [
            {
                "action": "string",
                "currentApplyDate": number,
                "description": "string"
            }
        ],
        "pendingModifiedValues": {
            "backupRetentionEnabled": boolean,
            "engineVersion": "string",
            "masterUserPassword": "string"
        },
        "preferredBackupWindow": "string",
        "preferredMaintenanceWindow": "string",
        "publiclyAccessible": boolean,
        "relationalDatabaseBlueprintId": "string",
        "relationalDatabaseBundleId": "string",
        "resourceType": "string",
        "secondaryAvailabilityZone": "string",
        "state": "string",
        "supportCode": "string",
        "tags": [
            {
                "key": "string",
                "value": "string"
            }
        ]
```

```
        }
    ]
}
```

Response Elements

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

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

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetRelationalDatabases` request and specify the next page token using the `pageToken` parameter.

Type: String

relationalDatabases

An object describing the result of your get relational databases request.

Type: Array of RelationalDatabase objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetRelationalDatabaseSnapshot

Returns information about a specific database snapshot in Amazon Lightsail.

Request Syntax

```
{
   "relationalDatabaseSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

relationalDatabaseSnapshotName

The name of the database snapshot for which to get information.

Type: String

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

Required: Yes

Response Syntax

```
{
   "relationalDatabaseSnapshot": {
      "arn": "string",
      "createdAt": number,
      "engine": "string",
      "engineVersion": "string",
      "fromRelationalDatabaseArn": "string",
      "fromRelationalDatabaseBlueprintId": "string",
      "fromRelationalDatabaseBundleId": "string",
      "fromRelationalDatabaseName": "string",
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
```

```
        },
        "name": "string",
        "resourceType": "string",
        "sizeInGb": number,
        "state": "string",
        "supportCode": "string",
        "tags": [
           {
              "key": "string",
              "value": "string"
           }
        ]
    }
}
```

Response Elements

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

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

relationalDatabaseSnapshot

An object describing the specified database snapshot.

Type: RelationalDatabaseSnapshot object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for C++
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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetRelationalDatabaseSnapshots

Returns information about all of your database snapshots in Amazon Lightsail.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetRelationalDatabaseSnapshots` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "nextPageToken": "string",
   "relationalDatabaseSnapshots": [
      {
         "arn": "string",
         "createdAt": number,
         "engine": "string",
         "engineVersion": "string",
         "fromRelationalDatabaseArn": "string",
         "fromRelationalDatabaseBlueprintId": "string",
```

```
            "fromRelationalDatabaseBundleId": "string",
            "fromRelationalDatabaseName": "string",
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "name": "string",
            "resourceType": "string",
            "sizeInGb": number,
            "state": "string",
            "supportCode": "string",
            "tags": [
               {
                  "key": "string",
                  "value": "string"
               }
            ]
         }
      ]
   }
```

Response Elements

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

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

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetRelationalDatabaseSnapshots` request and specify the next page token using the `pageToken` parameter.

Type: String

relationalDatabaseSnapshots

An object describing the result of your get relational database snapshots request.

Type: Array of RelationalDatabaseSnapshot objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetSetupHistory

Returns detailed information for five of the most recent `SetupInstanceHttps` requests that were ran on the target instance.

Request Syntax

```
{
   "pageToken": "string",
   "resourceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetSetupHistory` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Length Constraints: Minimum length of 24. Maximum length of 40.

Pattern: `^[A-Za-z0-9+/=]+$`

Required: No

resourceName

The name of the resource for which you are requesting information.

Type: String

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

Required: Yes

Response Syntax

```
{
   "nextPageToken": "string",
   "setupHistory": [
      {
         "executionDetails": [
            {
               "command": "string",
               "dateTime": number,
               "name": "string",
               "standardError": "string",
               "standardOutput": "string",
               "status": "string",
               "version": "string"
            }
         ],
         "operationId": "string",
         "request": {
            "certificateProvider": "string",
            "domainNames": [ "string" ],
            "instanceName": "string"
         },
         "resource": {
            "arn": "string",
            "createdAt": number,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "name": "string",
            "resourceType": "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.

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetSetupHistory` request and specify the next page token using the pageToken parameter.

Type: String

Length Constraints: Minimum length of 24. Maximum length of 40.

Pattern: `^[A-Za-z0-9+/=]+$`

setupHistory

The historical information that's returned.

Type: Array of SetupHistory objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetStaticIp

Returns information about an Amazon Lightsail static IP.

Request Syntax

```
{
   "staticIpName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

staticIpName

The name of the static IP in Lightsail.

Type: String

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

Required: Yes

Response Syntax

```
{
   "staticIp": {
      "arn": "string",
      "attachedTo": "string",
      "createdAt": number,
      "ipAddress": "string",
      "isAttached": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "name": "string",
      "resourceType": "string",
      "supportCode": "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.

staticIp

An array of key-value pairs containing information about the requested static IP.

Type: StaticIp object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

GetStaticIps

Returns information about all static IPs in the user's account.

Request Syntax

```
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

pageToken

The token to advance to the next page of results from your request.

To get a page token, perform an initial `GetStaticIps` request. If your results are paginated, the response will return a next page token that you can specify as the page token in a subsequent request.

Type: String

Required: No

Response Syntax

```
{
   "nextPageToken": "string",
   "staticIps": [
      {
         "arn": "string",
         "attachedTo": "string",
         "createdAt": number,
         "ipAddress": "string",
         "isAttached": boolean,
         "location": {
```

```
            "availabilityZone": "string",
            "regionName": "string"
        },
        "name": "string",
        "resourceType": "string",
        "supportCode": "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.

nextPageToken

The token to advance to the next page of results from your request.

A next page token is not returned if there are no more results to display.

To get the next page of results, perform another `GetStaticIps` request and specify the next page token using the `pageToken` parameter.

Type: String

staticIps

An array of key-value pairs containing information about your get static IPs request.

Type: Array of StaticIp objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for .NET V4
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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ImportKeyPair

Imports a public SSH key from a specific key pair.

Request Syntax

```
{
   "keyPairName": "string",
   "publicKeyBase64": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

keyPairName

The name of the key pair for which you want to import the public key.

Type: String

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

Required: Yes

publicKeyBase64

A base64-encoded public key of the `ssh-rsa` type.

Type: String

Required: Yes

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
```

```
        "id": "string",
        "isTerminal": boolean,
        "location": {
           "availabilityZone": "string",
           "regionName": "string"
        },
        "operationDetails": "string",
        "operationType": "string",
        "resourceName": "string",
        "resourceType": "string",
        "status": "string",
        "statusChangedAt": 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.

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

IsVpcPeered

Returns a Boolean value indicating whether your Lightsail VPC is peered.

Response Syntax

```
{
   "isPeered": boolean
}
```

Response Elements

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

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

isPeered

Returns `true` if the Lightsail VPC is peered; otherwise, `false`.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

OpenInstancePublicPorts

Opens ports for a specific Amazon Lightsail instance, and specifies the IP addresses allowed to connect to the instance through the ports, and the protocol.

The `OpenInstancePublicPorts` action supports tag-based access control via resource tags applied to the resource identified by `instanceName`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "instanceName": "string",
   "portInfo": {
      "cidrListAliases": [ "string" ],
      "cidrs": [ "string" ],
      "fromPort": number,
      "ipv6Cidrs": [ "string" ],
      "protocol": "string",
      "toPort": number
   }
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceName

The name of the instance for which to open ports.

Type: String

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

Required: Yes

portInfo

An object to describe the ports to open for the specified instance.

Type: PortInfo object

Required: Yes

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
      "resourceName": "string",
      "resourceType": "string",
      "status": "string",
      "statusChangedAt": 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.

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

PeerVpc

Peers the Lightsail VPC with the user's default VPC.

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
      "resourceName": "string",
      "resourceType": "string",
      "status": "string",
      "statusChangedAt": 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.

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

PutAlarm

Creates or updates an alarm, and associates it with the specified metric.

An alarm is used to monitor a single metric for one of your resources. When a metric condition is met, the alarm can notify you by email, SMS text message, and a banner displayed on the Amazon Lightsail console. For more information, see Alarms in Amazon Lightsail.

When this action creates an alarm, the alarm state is immediately set to `INSUFFICIENT_DATA`. The alarm is then evaluated and its state is set appropriately. Any actions associated with the new state are then executed.

When you update an existing alarm, its state is left unchanged, but the update completely overwrites the previous configuration of the alarm. The alarm is then evaluated with the updated configuration.

The `put alarm` operation supports tag-based access control via request tags. For more information, see the Lightsail Developer Guide.

Request Syntax

```
{
   "alarmName": "string",
   "comparisonOperator": "string",
   "contactProtocols": [ "string" ],
   "datapointsToAlarm": number,
   "evaluationPeriods": number,
   "metricName": "string",
   "monitoredResourceName": "string",
   "notificationEnabled": boolean,
   "notificationTriggers": [ "string" ],
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ],
   "threshold": number,
   "treatMissingData": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

alarmName

The name for the alarm. Specify the name of an existing alarm to update, and overwrite the previous configuration of the alarm.

Type: String

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

Required: Yes

comparisonOperator

The arithmetic operation to use when comparing the specified statistic to the threshold. The specified statistic value is used as the first operand.

Type: String

Valid Values: `GreaterThanOrEqualToThreshold | GreaterThanThreshold | LessThanThreshold | LessThanOrEqualToThreshold`

Required: Yes

contactProtocols

The contact protocols to use for the alarm, such as `Email`, `SMS` (text messaging), or both.

A notification is sent via the specified contact protocol if notifications are enabled for the alarm, and when the alarm is triggered.

A notification is not sent if a contact protocol is not specified, if the specified contact protocol is not configured in the AWS Region, or if notifications are not enabled for the alarm using the `notificationEnabled` paramater.

Use the `CreateContactMethod` action to configure a contact protocol in an AWS Region.

Type: Array of strings

Valid Values: `Email` | `SMS`

Required: No

datapointsToAlarm

The number of data points that must be not within the specified threshold to trigger the alarm. If you are setting an "M out of N" alarm, this value (`datapointsToAlarm`) is the M.

Type: Integer

Required: No

evaluationPeriods

The number of most recent periods over which data is compared to the specified threshold. If you are setting an "M out of N" alarm, this value (`evaluationPeriods`) is the N.

If you are setting an alarm that requires that a number of consecutive data points be breaching to trigger the alarm, this value specifies the rolling period of time in which data points are evaluated.

Each evaluation period is five minutes long. For example, specify an evaluation period of 24 to evaluate a metric over a rolling period of two hours.

You can specify a minimum valuation period of 1 (5 minutes), and a maximum evaluation period of 288 (24 hours).

Type: Integer

Required: Yes

metricName

The name of the metric to associate with the alarm.

You can configure up to two alarms per metric.

The following metrics are available for each resource type:

- **Instances**: `BurstCapacityPercentage`, `BurstCapacityTime`, `CPUUtilization`, `NetworkIn`, `NetworkOut`, `StatusCheckFailed`, `StatusCheckFailed_Instance`, and `StatusCheckFailed_System`.
- **Load balancers**: `ClientTLSNegotiationErrorCount`, `HealthyHostCount`, `UnhealthyHostCount`, `HTTPCode_LB_4XX_Count`, `HTTPCode_LB_5XX_Count`,

`HTTPCode_Instance_2XX_Count`, `HTTPCode_Instance_3XX_Count`, `HTTPCode_Instance_4XX_Count`, `HTTPCode_Instance_5XX_Count`, `InstanceResponseTime`, `RejectedConnectionCount`, and `RequestCount`.

- **Relational databases**: `CPUUtilization`, `DatabaseConnections`, `DiskQueueDepth`, `FreeStorageSpace`, `NetworkReceiveThroughput`, and `NetworkTransmitThroughput`.

For more information about these metrics, see Metrics available in Lightsail.

Type: String

Valid Values: `CPUUtilization | NetworkIn | NetworkOut | StatusCheckFailed | StatusCheckFailed_Instance | StatusCheckFailed_System | ClientTLSNegotiationErrorCount | HealthyHostCount | UnhealthyHostCount | HTTPCode_LB_4XX_Count | HTTPCode_LB_5XX_Count | HTTPCode_Instance_2XX_Count | HTTPCode_Instance_3XX_Count | HTTPCode_Instance_4XX_Count | HTTPCode_Instance_5XX_Count | InstanceResponseTime | RejectedConnectionCount | RequestCount | DatabaseConnections | DiskQueueDepth | FreeStorageSpace | NetworkReceiveThroughput | NetworkTransmitThroughput | FreeableMemory | SwapUsage | BurstCapacityTime | BurstCapacityPercentage`

Required: Yes

monitoredResourceName

The name of the Lightsail resource that will be monitored.

Instances, load balancers, and relational databases are the only Lightsail resources that can currently be monitored by alarms.

Type: String

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

Required: Yes

notificationEnabled

Indicates whether the alarm is enabled.

Notifications are enabled by default if you don't specify this parameter.

Type: Boolean

Required: No

notificationTriggers

The alarm states that trigger a notification.

An alarm has the following possible states:

- `ALARM` - The metric is outside of the defined threshold.
- `INSUFFICIENT_DATA` - The alarm has just started, the metric is not available, or not enough data is available for the metric to determine the alarm state.
- `OK` - The metric is within the defined threshold.

When you specify a notification trigger, the `ALARM` state must be specified. The `INSUFFICIENT_DATA` and `OK` states can be specified in addition to the `ALARM` state.

- If you specify `OK` as an alarm trigger, a notification is sent when the alarm switches from an `ALARM` or `INSUFFICIENT_DATA` alarm state to an `OK` state. This can be thought of as an *all clear* alarm notification.
- If you specify `INSUFFICIENT_DATA` as the alarm trigger, a notification is sent when the alarm switches from an `OK` or `ALARM` alarm state to an `INSUFFICIENT_DATA` state.

The notification trigger defaults to `ALARM` if you don't specify this parameter.

Type: Array of strings

Valid Values: `OK | ALARM | INSUFFICIENT_DATA`

Required: No

tags

The tag keys and optional values to add to the alarm during create.

Use the `TagResource` action to tag a resource after it's created.

Type: Array of Tag objects

Required: No

threshold

The value against which the specified statistic is compared.

Type: Double

Required: Yes

treatMissingData

Sets how this alarm will handle missing data points.

An alarm can treat missing data in the following ways:

- `breaching` - Assume the missing data is not within the threshold. Missing data counts towards the number of times the metric is not within the threshold.
- `notBreaching` - Assume the missing data is within the threshold. Missing data does not count towards the number of times the metric is not within the threshold.
- `ignore` - Ignore the missing data. Maintains the current alarm state.
- `missing` - Missing data is treated as missing.

If `treatMissingData` is not specified, the default behavior of `missing` is used.

Type: String

Valid Values: `breaching | notBreaching | ignore | missing`

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
```

```
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

PutInstancePublicPorts

Opens ports for a specific Amazon Lightsail instance, and specifies the IP addresses allowed to connect to the instance through the ports, and the protocol. This action also closes all currently open ports that are not included in the request. Include all of the ports and the protocols you want to open in your `PutInstancePublicPortsrequest`. Or use the `OpenInstancePublicPorts` action to open ports without closing currently open ports.

The `PutInstancePublicPorts` action supports tag-based access control via resource tags applied to the resource identified by `instanceName`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "instanceName": "string",
   "portInfos": [
      {
         "cidrListAliases": [ "string" ],
         "cidrs": [ "string" ],
         "fromPort": number,
         "ipv6Cidrs": [ "string" ],
         "protocol": "string",
         "toPort": number
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceName

The name of the instance for which to open ports.

Type: String

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

Required: Yes

portInfos

An array of objects to describe the ports to open for the specified instance.

Type: Array of PortInfo objects

Required: Yes

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
      "resourceName": "string",
      "resourceType": "string",
      "status": "string",
      "statusChangedAt": 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.

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

RebootInstance

Restarts a specific instance.

The `reboot instance` operation supports tag-based access control via resource tags applied to the resource identified by `instance name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceName

The name of the instance to reboot.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
```

```
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

RebootRelationalDatabase

Restarts a specific database in Amazon Lightsail.

The `reboot relational database` operation supports tag-based access control via resource tags applied to the resource identified by relationalDatabaseName. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

relationalDatabaseName

The name of your database to reboot.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
```

```
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

RegisterContainerImage

Registers a container image to your Amazon Lightsail container service.

> **Note**
>
> This action is not required if you install and use the Lightsail Control (lightsailctl) plugin to push container images to your Lightsail container service. For more information, see Pushing and managing container images on your Amazon Lightsail container services in the *Amazon Lightsail Developer Guide*.

Request Syntax

```
{
   "digest": "string",
   "label": "string",
   "serviceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

digest

The digest of the container image to be registered.

Type: String

Required: Yes

label

The label for the container image when it's registered to the container service.

Use a descriptive label that you can use to track the different versions of your registered container images.

Use the `GetContainerImages` action to return the container images registered to a Lightsail container service. The label is the `<imagelabel>` portion of the following image name example:

- `:container-service-1.<imagelabel>.1`

If the name of your container service is `mycontainerservice`, and the label that you specify is `mystaticwebsite`, then the name of the registered container image will be `:mycontainerservice.mystaticwebsite.1`.

The number at the end of these image name examples represents the version of the registered container image. If you push and register another container image to the same Lightsail container service, with the same label, then the version number for the new registered container image will be 2. If you push and register another container image, the version number will be 3, and so on.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 53.

Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: Yes

serviceName

The name of the container service for which to register a container image.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: Yes

Response Syntax

```
{
   "containerImage": {
      "createdAt": number,
      "digest": "string",
```

```
        "image": "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.

containerImage

An object that describes a container image that is registered to a Lightsail container service

Type: ContainerImage object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

ReleaseStaticIp

Deletes a specific static IP from your account.

Request Syntax

```
{
   "staticIpName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

staticIpName

The name of the static IP to delete.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
```

```
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

ResetDistributionCache

Deletes currently cached content from your Amazon Lightsail content delivery network (CDN) distribution.

After resetting the cache, the next time a content request is made, your distribution pulls, serves, and caches it from the origin.

Request Syntax

```
{
   "distributionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

distributionName

The name of the distribution for which to reset cache.

Use the `GetDistributions` action to get a list of distribution names that you can specify.

Type: String

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

Required: No

Response Syntax

```
{
   "createTime": number,
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
```

```
        "isTerminal": boolean,
        "location": {
           "availabilityZone": "string",
           "regionName": "string"
        },
        "operationDetails": "string",
        "operationType": "string",
        "resourceName": "string",
        "resourceType": "string",
        "status": "string",
        "statusChangedAt": number
    },
    "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.

createTime

The timestamp of the reset cache request (`1479734909.17`) in Unix time format.

Type: Timestamp

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

status

The status of the reset cache request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

SendContactMethodVerification

Sends a verification request to an email contact method to ensure it's owned by the requester. SMS contact methods don't need to be verified.

A contact method is used to send you notifications about your Amazon Lightsail resources. You can add one email address and one mobile phone number contact method in each AWS Region. However, SMS text messaging is not supported in some AWS Regions, and SMS text messages cannot be sent to some countries/regions. For more information, see Notifications in Amazon Lightsail.

A verification request is sent to the contact method when you initially create it. Use this action to send another verification request if a previous verification request was deleted, or has expired.

> **Important**
>
> Notifications are not sent to an email contact method until after it is verified, and confirmed as valid.

Request Syntax

```
{
   "protocol": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

protocol

The protocol to verify, such as `Email` or `SMS` (text messaging).

Type: String

Valid Values: `Email`

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

SetIpAddressType

Sets the IP address type for an Amazon Lightsail resource.

Use this action to enable dual-stack for a resource, which enables IPv4 and IPv6 for the specified resource. Alternately, you can use this action to disable dual-stack, and enable IPv4 only.

Request Syntax

```
{
   "acceptBundleUpdate": boolean,
   "ipAddressType": "string",
   "resourceName": "string",
   "resourceType": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

acceptBundleUpdate

Required parameter to accept the instance bundle update when changing to, and from, IPv6-only.

> **Note**
>
> An instance bundle will change when switching from `dual-stack` or `ipv4`, to `ipv6`. It also changes when switching from `ipv6`, to `dual-stack` or `ipv4`.
> You must include this parameter in the command to update the bundle. For example, if you switch from `dual-stack` to `ipv6`, the bundle will be updated, and billing for the IPv6-only instance bundle begins immediately.

Type: Boolean

Required: No

ipAddressType

The IP address type to set for the specified resource.

The possible values are `ipv4` for IPv4 only, `ipv6` for IPv6 only, and `dualstack` for IPv4 and IPv6.

Type: String

Valid Values: `dualstack | ipv4 | ipv6`

Required: Yes

resourceName

The name of the resource for which to set the IP address type.

Type: String

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

Required: Yes

resourceType

The resource type.

The resource values are `Distribution`, `Instance`, and `LoadBalancer`.

> **Note**
>
> Distribution-related APIs are available only in the N. Virginia (`us-east-1`) AWS Region. Set your AWS Region configuration to `us-east-1` to create, view, or edit distributions.

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord |`

`CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

SetResourceAccessForBucket

Sets the Amazon Lightsail resources that can access the specified Lightsail bucket.

Lightsail buckets currently support setting access for Lightsail instances in the same AWS Region.

Request Syntax

```
{
   "access": "string",
   "bucketName": "string",
   "resourceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

access

The access setting.

The following access settings are available:

- `allow` - Allows access to the bucket and its objects.
- `deny` - Denies access to the bucket and its objects. Use this setting to remove access for a resource previously set to `allow`.

Type: String

Valid Values: `allow | deny`

Required: Yes

bucketName

The name of the bucket for which to set access to another Lightsail resource.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 54.

Pattern: `^[a-z0-9][a-z0-9-]{1,52}[a-z0-9]$`

Required: Yes

resourceName

The name of the Lightsail instance for which to set bucket access. The instance must be in a running or stopped state.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

SetupInstanceHttps

Creates an SSL/TLS certificate that secures traffic for your website. After the certificate is created, it is installed on the specified Lightsail instance.

If you provide more than one domain name in the request, at least one name must be less than or equal to 63 characters in length.

Request Syntax

```
{
   "certificateProvider": "string",
   "domainNames": [ "string" ],
   "emailAddress": "string",
   "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

certificateProvider

The certificate authority that issues the SSL/TLS certificate.

Type: String

Valid Values: `LetsEncrypt`

Required: Yes

domainNames

The name of the domain and subdomains that were specified for the SSL/TLS certificate.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 4. Maximum length of 253.

Pattern: `^[a-zA-Z0-9\-]{1,63}(\.[a-zA-Z0-9\-]{1,63}){0,8}(\.[a-zA-Z]{2,63})$`

Required: Yes

emailAddress

The contact method for SSL/TLS certificate renewal alerts. You can enter one email address.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 254.

Pattern: `^[\w!#$%&.'*+\/=?^_\x60{|}~\-]{1,64}@[a-zA-Z0-9\-]{1,63}(\.[a-zA-Z0-9\-]{1,63}){0,8}(\.[a-zA-Z]{2,63})$`

Required: Yes

instanceName

The name of the Lightsail instance.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
```

```
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

The available API operations for `SetupInstanceHttps`.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

StartGUISession

Initiates a graphical user interface (GUI) session that's used to access a virtual computer's operating system and application. The session will be active for 1 hour. Use this action to resume the session after it expires.

Request Syntax

```
{
   "resourceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

resourceName

The resource name.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
```

```
            "availabilityZone": "string",
            "regionName": "string"
        },
        "operationDetails": "string",
        "operationType": "string",
        "resourceName": "string",
        "resourceType": "string",
        "status": "string",
        "statusChangedAt": 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.

operations

The available API operations.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

StartInstance

Starts a specific Amazon Lightsail instance from a stopped state. To restart an instance, use the `reboot instance` operation.

> **Note**
>
> When you start a stopped instance, Lightsail assigns a new public IP address to the instance. To use the same IP address after stopping and starting an instance, create a static IP address and attach it to the instance. For more information, see the Amazon Lightsail Developer Guide.

The `start instance` operation supports tag-based access control via resource tags applied to the resource identified by `instance name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

instanceName

The name of the instance (a virtual private server) to start.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

StartRelationalDatabase

Starts a specific database from a stopped state in Amazon Lightsail. To restart a database, use the `reboot relational database` operation.

The `start relational database` operation supports tag-based access control via resource tags applied to the resource identified by relationalDatabaseName. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

relationalDatabaseName

The name of your database to start.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
```

```
            "isTerminal": boolean,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

StopGUISession

Terminates a web-based Amazon DCV session that's used to access a virtual computer's operating system or application. The session will close and any unsaved data will be lost.

Request Syntax

```
{
   "resourceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

resourceName

The resource name.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
```

```
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

The available API operations.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

StopInstance

Stops a specific Amazon Lightsail instance that is currently running.

> **Note**
>
> When you start a stopped instance, Lightsail assigns a new public IP address to the instance. To use the same IP address after stopping and starting an instance, create a static IP address and attach it to the instance. For more information, see the Amazon Lightsail Developer Guide.

The `stop instance` operation supports tag-based access control via resource tags applied to the resource identified by `instance name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "force": boolean,
   "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

force

When set to `True`, forces a Lightsail instance that is stuck in a `stopping` state to stop.

> **Important**
>
> Only use the `force` parameter if your instance is stuck in the `stopping` state. In any other state, your instance should stop normally without adding this parameter to your API request.

Type: Boolean

Required: No

instanceName

The name of the instance (a virtual private server) to stop.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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Regions and Availability Zones for Lightsail

tip

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

StopRelationalDatabase

Stops a specific database that is currently running in Amazon Lightsail.

> **Note**
>
> If you don't manually start your database instance after it has been stopped for seven consecutive days, Amazon Lightsail automatically starts it for you. This action helps ensure that your database instance doesn't fall behind on any required maintenance updates.

The `stop relational database` operation supports tag-based access control via resource tags applied to the resource identified by relationalDatabaseName. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "relationalDatabaseName": "string",
   "relationalDatabaseSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

relationalDatabaseName

The name of your database to stop.

Type: String

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

Required: Yes

relationalDatabaseSnapshotName

The name of your new database snapshot to be created before stopping your database.

Type: String

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

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

TagResource

Adds one or more tags to the specified Amazon Lightsail resource. Each resource can have a maximum of 50 tags. Each tag consists of a key and an optional value. Tag keys must be unique per resource. For more information about tags, see the Amazon Lightsail Developer Guide.

The `tag resource` operation supports tag-based access control via request tags and resource tags applied to the resource identified by `resource name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "resourceArn": "string",
   "resourceName": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) of the resource to which you want to add a tag.

Type: String

Pattern: `^arn:(aws[^:]*):([a-zA-Z0-9-]+):([a-z0-9-]+):([0-9]+):([a-zA-Z]+)/([a-zA-Z0-9-]+)$`

Required: No

resourceName

The name of the resource to which you are adding tags.

Type: String

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

Required: Yes

tags

The tag key and optional value.

Type: Array of Tag objects

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

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NotFoundException

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OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

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ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

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See Also

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

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- AWS SDK for .NET V4
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TestAlarm

Tests an alarm by displaying a banner on the Amazon Lightsail console. If a notification trigger is configured for the specified alarm, the test also sends a notification to the notification protocol (`Email` and/or `SMS`) configured for the alarm.

An alarm is used to monitor a single metric for one of your resources. When a metric condition is met, the alarm can notify you by email, SMS text message, and a banner displayed on the Amazon Lightsail console. For more information, see Alarms in Amazon Lightsail.

Request Syntax

```
{
   "alarmName": "string",
   "state": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

alarmName

The name of the alarm to test.

Type: String

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

Required: Yes

state

The alarm state to test.

An alarm has the following possible states that can be tested:

- `ALARM` - The metric is outside of the defined threshold.
- `INSUFFICIENT_DATA` - The alarm has just started, the metric is not available, or not enough data is available for the metric to determine the alarm state.

- OK - The metric is within the defined threshold.

Type: String

Valid Values: `OK | ALARM | INSUFFICIENT_DATA`

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

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- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UnpeerVpc

Unpeers the Lightsail VPC from the user's default VPC.

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
      "resourceName": "string",
      "resourceType": "string",
      "status": "string",
      "statusChangedAt": 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.

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
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NotFoundException

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Lightsail throws this exception when an operation fails to execute.

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UntagResource

Deletes the specified set of tag keys and their values from the specified Amazon Lightsail resource.

The `untag resource` operation supports tag-based access control via request tags and resource tags applied to the resource identified by `resource name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "resourceArn": "string",
   "resourceName": "string",
   "tagKeys": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) of the resource from which you want to remove a tag.

Type: String

Pattern: `^arn:(aws[^:]*):([a-zA-Z0-9-]+):([a-z0-9-]+):([0-9]+):([a-zA-Z]+)/([a-zA-Z0-9-]+)$`

Required: No

resourceName

The name of the resource from which you are removing a tag.

Type: String

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

Required: Yes

tagKeys

The tag keys to delete from the specified resource.

Type: Array of strings

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

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- AWS SDK for Ruby V3

UpdateBucket

Updates an existing Amazon Lightsail bucket.

Use this action to update the configuration of an existing bucket, such as versioning, public accessibility, and the AWS accounts that can access the bucket.

Request Syntax

```
{
   "accessLogConfig": {
      "destination": "string",
      "enabled": boolean,
      "prefix": "string"
   },
   "accessRules": {
      "allowPublicOverrides": boolean,
      "getObject": "string"
   },
   "bucketName": "string",
   "cors": {
      "rules": [
         {
            "allowedHeaders": [ "string" ],
            "allowedMethods": [ "string" ],
            "allowedOrigins": [ "string" ],
            "exposeHeaders": [ "string" ],
            "id": "string",
            "maxAgeSeconds": number
         }
      ]
   },
   "readonlyAccessAccounts": [ "string" ],
   "versioning": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

accessLogConfig

An object that describes the access log configuration for the bucket.

Type: BucketAccessLogConfig object

Required: No

accessRules

An object that sets the public accessibility of objects in the specified bucket.

Type: AccessRules object

Required: No

bucketName

The name of the bucket to update.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 54.

Pattern: `^[a-z0-9][a-z0-9-]{1,52}[a-z0-9]$`

Required: Yes

cors

Sets the cross-origin resource sharing (CORS) configuration for your bucket. If a CORS configuration exists, it is replaced with the specified configuration. For AWS CLI operations, this parameter can also be passed as a file. For more information, see Configuring cross-origin resource sharing (CORS).

> **Note**
>
> CORS information is only returned in a response when you update the CORS policy.

Type: BucketCorsConfig object

Required: No

readonlyAccessAccounts

An array of strings to specify the AWS account IDs that can access the bucket.

You can give a maximum of 10 AWS accounts access to a bucket.

Type: Array of strings

Array Members: Maximum number of 10 items.

Pattern: `.*\S.*`

Required: No

versioning

Specifies whether to enable or suspend versioning of objects in the bucket.

The following options can be specified:

- `Enabled` - Enables versioning of objects in the specified bucket.
- `Suspended` - Suspends versioning of objects in the specified bucket. Existing object versions are retained.

Type: String

Pattern: `.*\S.*`

Required: No

Response Syntax

```
{
   "bucket": {
      "ableToUpdateBundle": boolean,
      "accessLogConfig": {
         "destination": "string",
         "enabled": boolean,
         "prefix": "string"
      },
      "accessRules": {
         "allowPublicOverrides": boolean,
         "getObject": "string"
      },
      "arn": "string",
      "bundleId": "string",
      "cors": {
         "rules": [
```

```
            {
               "allowedHeaders": [ "string" ],
               "allowedMethods": [ "string" ],
               "allowedOrigins": [ "string" ],
               "exposeHeaders": [ "string" ],
               "id": "string",
               "maxAgeSeconds": number
            }
         ]
      },
      "createdAt": number,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "name": "string",
      "objectVersioning": "string",
      "readonlyAccessAccounts": [ "string" ],
      "resourcesReceivingAccess": [
         {
            "name": "string",
            "resourceType": "string"
         }
      ],
      "resourceType": "string",
      "state": {
         "code": "string",
         "message": "string"
      },
      "supportCode": "string",
      "tags": [
         {
            "key": "string",
            "value": "string"
         }
      ],
      "url": "string"
   },
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
```

```
            "isTerminal": boolean,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

bucket

An object that describes the bucket that is updated.

Type: Bucket object

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

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InvalidInputException

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ServiceException

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HTTP Status Code: 500

UnauthenticatedException

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UpdateBucketBundle

Updates the bundle, or storage plan, of an existing Amazon Lightsail bucket.

A bucket bundle specifies the monthly cost, storage space, and data transfer quota for a bucket. You can update a bucket's bundle only one time within a monthly AWS billing cycle. To determine if you can update a bucket's bundle, use the GetBuckets action. The `ableToUpdateBundle` parameter in the response will indicate whether you can currently update a bucket's bundle.

Update a bucket's bundle if it's consistently going over its storage space or data transfer quota, or if a bucket's usage is consistently in the lower range of its storage space or data transfer quota. Due to the unpredictable usage fluctuations that a bucket might experience, we strongly recommend that you update a bucket's bundle only as a long-term strategy, instead of as a short-term, monthly cost-cutting measure. Choose a bucket bundle that will provide the bucket with ample storage space and data transfer for a long time to come.

Request Syntax

```
{
   "bucketName": "string",
   "bundleId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

bucketName

The name of the bucket for which to update the bundle.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 54.

Pattern: `^[a-z0-9][a-z0-9-]{1,52}[a-z0-9]$`

Required: Yes

bundleId

The ID of the new bundle to apply to the bucket.

Use the GetBucketBundles action to get a list of bundle IDs that you can specify.

Type: String

Pattern: `.*\S.*`

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

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UpdateContainerService

Updates the configuration of your Amazon Lightsail container service, such as its power, scale, and public domain names.

Request Syntax

```
{
   "isDisabled": boolean,
   "power": "string",
   "privateRegistryAccess": {
      "ecrImagePullerRole": {
         "isActive": boolean
      }
   },
   "publicDomainNames": {
      "string" : [ "string" ]
   },
   "scale": number,
   "serviceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

isDisabled

A Boolean value to indicate whether the container service is disabled.

Type: Boolean

Required: No

power

The power for the container service.

The power specifies the amount of memory, vCPUs, and base monthly cost of each node of the container service. The `power` and `scale` of a container service makes up its configured capacity.

To determine the monthly price of your container service, multiply the base price of the `power` with the `scale` (the number of nodes) of the service.

Use the `GetContainerServicePowers` action to view the specifications of each power option.

Type: String

Valid Values: `nano | micro | small | medium | large | xlarge`

Required: No

privateRegistryAccess

An object to describe the configuration for the container service to access private container image repositories, such as Amazon Elastic Container Registry (Amazon ECR) private repositories.

For more information, see Configuring access to an Amazon ECR private repository for an Amazon Lightsail container service in the *Amazon Lightsail Developer Guide*.

Type: PrivateRegistryAccessRequest object

Required: No

publicDomainNames

The public domain names to use with the container service, such as `example.com` and `www.example.com`.

You can specify up to four public domain names for a container service. The domain names that you specify are used when you create a deployment with a container configured as the public endpoint of your container service.

If you don't specify public domain names, then you can use the default domain of the container service.

> **Important**
>
> You must create and validate an SSL/TLS certificate before you can use public domain names with your container service. Use the `CreateCertificate` action to create a certificate for the public domain names you want to use with your container service.

You can specify public domain names using a string to array map as shown in the example later on this page.

Type: String to array of strings map

Required: No

scale

The scale for the container service.

The scale specifies the allocated compute nodes of the container service. The `power` and `scale` of a container service makes up its configured capacity. To determine the monthly price of your container service, multiply the base price of the `power` with the `scale` (the number of nodes) of the service.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

serviceName

The name of the container service to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: Yes

Response Syntax

```
{
   "containerService": {
      "arn": "string",
      "containerServiceName": "string",
      "createdAt": number,
      "currentDeployment": {
         "containers": {
            "string" : {
               "command": [ "string" ],
```

```
                "environment": {
                   "string" : "string"
                },
                "image": "string",
                "ports": {
                   "string" : "string"
                }
             }
          },
          "createdAt": number,
          "publicEndpoint": {
             "containerName": "string",
             "containerPort": number,
             "healthCheck": {
                "healthyThreshold": number,
                "intervalSeconds": number,
                "path": "string",
                "successCodes": "string",
                "timeoutSeconds": number,
                "unhealthyThreshold": number
             }
          },
          "state": "string",
          "version": number
       },
       "isDisabled": boolean,
       "location": {
          "availabilityZone": "string",
          "regionName": "string"
       },
       "nextDeployment": {
          "containers": {
             "string" : {
                "command": [ "string" ],
                "environment": {
                   "string" : "string"
                },
                "image": "string",
                "ports": {
                   "string" : "string"
                }
             }
          },
          "createdAt": number,
```

```
            "publicEndpoint": {
               "containerName": "string",
               "containerPort": number,
               "healthCheck": {
                  "healthyThreshold": number,
                  "intervalSeconds": number,
                  "path": "string",
                  "successCodes": "string",
                  "timeoutSeconds": number,
                  "unhealthyThreshold": number
               }
            },
            "state": "string",
            "version": number
         },
         "power": "string",
         "powerId": "string",
         "principalArn": "string",
         "privateDomainName": "string",
         "privateRegistryAccess": {
            "ecrImagePullerRole": {
               "isActive": boolean,
               "principalArn": "string"
            }
         },
         "publicDomainNames": {
            "string" : [ "string" ]
         },
         "resourceType": "string",
         "scale": number,
         "state": "string",
         "stateDetail": {
            "code": "string",
            "message": "string"
         },
         "tags": [
            {
               "key": "string",
               "value": "string"
            }
         ],
         "url": "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.

containerService

An object that describes a container service.

Type: ContainerService object

Errors

For information about the errors that are common to all actions, see Common Error Types.

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HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

Examples

In the following example or examples, the Authorization header contents (`AUTHPARAMS`) must be replaced with an AWS Signature Version 4 signature. For more information about creating these signatures, see Signature Version 4 Signing Process in the *AWS General Reference*.

You need to learn how to sign HTTP requests only if you intend to manually create them. When you use the AWS Command Line Interface (AWS CLI) or one of the AWS SDKs to make requests to AWS, these tools automatically sign the requests for you with the access key that you specify when you configure the tools. When you use these tools, you don't need to learn how to sign requests yourself.

Update container service

The following example updates an existing container service named `container-service-1` in the `us-west-2` AWS Region by adding the `example.com`, `applications.example.com`, `www.example.com`, and `containers.example.com` public domains of the `example-com` SSL/TLS certificate.

Sample Request

```
POST / HTTP/1.1
Host: lightsail.us-west-2.amazonaws.com
Accept-Encoding: identity
X-Amz-Target: Lightsail_20161128.UpdateContainerService
Content-Type: application/x-amz-json-1.1
User-Agent: AGENT
X-Amz-Date: 20201022T203059Z
Authorization: AUTHPARAMS
Content-Length: 192

{
    "serviceName": "myservice",
    "isDisabled": false,
    "publicDomainNames": {
        "example-com": [
            "example.com",
            "applications.example.com",
            "www.example.com",
            "containers.example.com"
        ]
    }
}
```

Sample Response

```
HTTP/1.1 200 OK
Server: Server
Date: Thu, 22 Oct 2020 20:31:00 GMT
Content-Type: application/x-amz-json-1.1
Content-Length: 1178
x-amzn-RequestId: d198e00c-70c7-47e4-afa7-2EXAMPLE6f5a
Connection: keep-alive

{
```

```
    "containerService": {
        "arn": "arn:aws:lightsail:us-
west-2:111122223333:ContainerService/1724babe-944a-4c49-887a-e7EXAMPLEe34",
        "containerServiceName": "myservice",
        "createdAt": 1.602859922E9,
        "currentDeployment": {
            "containers": {
                "mystaticwebsite": {
                    "command": [],
                    "environment": {},
                    "image": "httpd",
                    "ports": {"80": "HTTP"}
                }
            },
            "createdAt": 1.603393327E9,
            "publicEndpoint": {
                "containerName": "mystaticwebsite",
                "containerPort": 80,
                "healthCheck": {
                    "healthyThreshold": 2,
                    "intervalSeconds": 5,
                    "path": "/",
                    "successCodes": "200-499",
                    "timeoutSeconds": 2,
                    "unhealthyThreshold": 2
                }
            },
            "state": "ACTIVE",
            "version": 5
        },
        "isDisabled": false,
        "location": {
            "availabilityZone": "all",
            "regionName": "us-west-2"
        },
        "power": "nano",
        "powerId": "nano-1",
        "principalArn": "arn:aws:iam::111122223333:role/amazon/lightsail/us-west-2/
containers/myservice/1blaioEXAMPLEa1td8sgmnvhmoEXAMPLE8tetach1pcir6773v4g",
        "privateDomainName": "myservice.service.local",
        "publicDomainNames": {
            "example-com": [
                "example.com",
                "applications.example.com",
```

```
                "www.example.com",
                "containers.example.com"
            ]
        },
        "resourceType": "ContainerService",
        "scale": 1,
        "state": "UPDATING",
        "tags": [],
        "url": "https://myservice.urEXAMPLE1234.us-west-2.cs.amazonlightsail.com/"
    }
}
```

See Also

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

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

UpdateDistribution

Updates an existing Amazon Lightsail content delivery network (CDN) distribution.

Use this action to update the configuration of your existing distribution.

Request Syntax

```
{
   "cacheBehaviors": [
      {
         "behavior": "string",
         "path": "string"
      }
   ],
   "cacheBehaviorSettings": {
      "allowedHTTPMethods": "string",
      "cachedHTTPMethods": "string",
      "defaultTTL": number,
      "forwardedCookies": {
         "cookiesAllowList": [ "string" ],
         "option": "string"
      },
      "forwardedHeaders": {
         "headersAllowList": [ "string" ],
         "option": "string"
      },
      "forwardedQueryStrings": {
         "option": boolean,
         "queryStringsAllowList": [ "string" ]
      },
      "maximumTTL": number,
      "minimumTTL": number
   },
   "certificateName": "string",
   "customErrorResponses": [
      {
         "errorCachingMinTTL": number,
         "errorCode": number,
         "responseCode": "string",
         "responsePagePath": "string"
      }
   ],
```

```
    "defaultCacheBehavior": {
       "behavior": "string"
    },
    "defaultRootObject": "string",
    "distributionName": "string",
    "enablePrivateOriginAccess": boolean,
    "isEnabled": boolean,
    "origin": {
       "ipAddressType": "string",
       "name": "string",
       "protocolPolicy": "string",
       "regionName": "string",
       "responseTimeout": number
    },
    "useDefaultCertificate": boolean,
    "viewerMinimumTlsProtocolVersion": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

cacheBehaviors

An array of objects that describe the per-path cache behavior for the distribution.

Type: Array of CacheBehaviorPerPath objects

Required: No

cacheBehaviorSettings

An object that describes the cache behavior settings for the distribution.

> **Note**
>
> The `cacheBehaviorSettings` specified in your `UpdateDistributionRequest` will replace your distribution's existing settings.

Type: CacheSettings object

Required: No

certificateName

The name of the SSL/TLS certificate that you want to attach to the distribution.

Only certificates with a status of `ISSUED` can be attached to a distribution.

Use the GetCertificates action to get a list of certificate names that you can specify.

Type: String

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

Required: No

customErrorResponses

An array of objects that describe the custom error responses for the distribution. With a custom error response, you can specify the page to return when the origin responds with a given HTTP error code. You can also specify the HTTP status code to send to the viewer.

Type: Array of DistributionCustomErrorResponse objects

Required: No

defaultCacheBehavior

An object that describes the default cache behavior for the distribution.

Type: CacheBehavior object

Required: No

defaultRootObject

The object (for example, `index.html`) that the distribution returns when a viewer requests the root URL of the distribution (/) instead of a specific object. The object that you specify must be available from the origin.

Type: String

Required: No

distributionName

The name of the distribution to update.

Use the `GetDistributions` action to get a list of distribution names that you can specify.

Type: String

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

Required: Yes

enablePrivateOriginAccess

Specifies whether to enable private origin access for the distribution. With private origin access, the distribution can serve objects that aren't publicly accessible from a Lightsail bucket.

Lightsail grants the distribution permission to read the bucket's objects. Enabling private origin access doesn't change the bucket's access settings, and you can still retrieve publicly accessible objects directly from the bucket's endpoint.

> **Note**
>
> When you include this parameter, you must also include the `origin` parameter with the resource name, even if the origin is not changing.
> You can enable private origin access only when the distribution's origin is a Lightsail bucket. If the origin is another resource type, the request fails.

Type: Boolean

Required: No

isEnabled

Indicates whether to enable the distribution.

Type: Boolean

Required: No

origin

An object that describes the origin resource for the distribution, such as a Lightsail instance, bucket, or load balancer.

The distribution pulls, caches, and serves content from the origin.

Type: InputOrigin object

Required: No

useDefaultCertificate

Indicates whether the default SSL/TLS certificate is attached to the distribution. The default value is `true`. When `true`, the distribution uses the default domain name such as `d111111abcdef8.cloudfront.net`.

Set this value to `false` to attach a new certificate to the distribution.

Type: Boolean

Required: No

viewerMinimumTlsProtocolVersion

Use this parameter to update the minimum TLS protocol version for the SSL/TLS certificate that's attached to the distribution.

Type: String

Valid Values: `TLSv1.1_2016 | TLSv1.2_2018 | TLSv1.2_2019 | TLSv1.2_2021`

Required: No

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
      "resourceName": "string",
```

```
        "resourceType": "string",
        "status": "string",
        "statusChangedAt": 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.

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for .NET V4
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- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateDistributionBundle

Updates the bundle of your Amazon Lightsail content delivery network (CDN) distribution.

A distribution bundle specifies the monthly network transfer quota and monthly cost of your distribution.

Update your distribution's bundle if your distribution is going over its monthly network transfer quota and is incurring an overage fee.

You can update your distribution's bundle only one time within your monthly AWS billing cycle. To determine if you can update your distribution's bundle, use the `GetDistributions` action. The `ableToUpdateBundle` parameter in the result will indicate whether you can currently update your distribution's bundle.

Request Syntax

```
{
   "bundleId": "string",
   "distributionName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

bundleId

The bundle ID of the new bundle to apply to your distribution.

Use the `GetDistributionBundles` action to get a list of distribution bundle IDs that you can specify.

Type: String

Required: No

distributionName

The name of the distribution for which to update the bundle.

Use the `GetDistributions` action to get a list of distribution names that you can specify.

Type: String

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

Required: No

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
      "resourceName": "string",
      "resourceType": "string",
      "status": "string",
      "statusChangedAt": 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.

operation

An object that describes the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for Kotlin
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UpdateDomainEntry

Updates a domain recordset after it is created.

The `update domain entry` operation supports tag-based access control via resource tags applied to the resource identified by `domain name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "domainEntry": {
      "id": "string",
      "isAlias": boolean,
      "name": "string",
      "options": {
         "string" : "string"
      },
      "target": "string",
      "type": "string"
   },
   "domainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

domainEntry

An array of key-value pairs containing information about the domain entry.

Type: DomainEntry object

Required: Yes

domainName

The name of the domain recordset to update.

Type: String

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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UpdateInstanceMetadataOptions

Modifies the Amazon Lightsail instance metadata parameters on a running or stopped instance. When you modify the parameters on a running instance, the `GetInstance` or `GetInstances` API operation initially responds with a state of `pending`. After the parameter modifications are successfully applied, the state changes to `applied` in subsequent `GetInstance` or `GetInstances` API calls. For more information, see Use IMDSv2 with an Amazon Lightsail instance in the *Amazon Lightsail Developer Guide*.

Request Syntax

```
{
   "httpEndpoint": "string",
   "httpProtocolIpv6": "string",
   "httpPutResponseHopLimit": number,
   "httpTokens": "string",
   "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

httpEndpoint

Enables or disables the HTTP metadata endpoint on your instances. If this parameter is not specified, the existing state is maintained.

If you specify a value of `disabled`, you cannot access your instance metadata.

Type: String

Valid Values: `disabled | enabled`

Required: No

httpProtocolIpv6

Enables or disables the IPv6 endpoint for the instance metadata service. This setting applies only when the HTTP metadata endpoint is enabled.

> **Note**
>
> This parameter is available only for instances in the Europe (Stockholm) AWS Region (`eu-north-1`).

Type: String

Valid Values: `disabled | enabled`

Required: No

[httpPutResponseHopLimit](#)

The desired HTTP PUT response hop limit for instance metadata requests. A larger number means that the instance metadata requests can travel farther. If no parameter is specified, the existing state is maintained.

Type: Integer

Required: No

[httpTokens](#)

The state of token usage for your instance metadata requests. If the parameter is not specified in the request, the default state is `optional`.

If the state is `optional`, you can choose whether to retrieve instance metadata with a signed token header on your request. If you retrieve the IAM role credentials without a token, the version 1.0 role credentials are returned. If you retrieve the IAM role credentials by using a valid signed token, the version 2.0 role credentials are returned.

If the state is `required`, you must send a signed token header with all instance metadata retrieval requests. In this state, retrieving the IAM role credential always returns the version 2.0 credentials. The version 1.0 credentials are not available.

Type: String

Valid Values: `optional | required`

Required: No

instanceName

The name of the instance for which to update metadata parameters.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "string"
      },
      "operationDetails": "string",
      "operationType": "string",
      "resourceName": "string",
      "resourceType": "string",
      "status": "string",
      "statusChangedAt": 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.

operation

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Operation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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
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- AWS SDK for Ruby V3

UpdateLoadBalancerAttribute

Updates the specified attribute for a load balancer. You can only update one attribute at a time.

The `update load balancer attribute` operation supports tag-based access control via resource tags applied to the resource identified by `load balancer name`. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "attributeName": "string",
   "attributeValue": "string",
   "loadBalancerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

attributeName

The name of the attribute you want to update.

Type: String

Valid Values: `HealthCheckPath | SessionStickinessEnabled | SessionStickiness_LB_CookieDurationSeconds | HttpsRedirectionEnabled | TlsPolicyName`

Required: Yes

attributeValue

The value that you want to specify for the attribute name.

The following values are supported depending on what you specify for the `attributeName` request parameter:

- If you specify `HealthCheckPath` for the `attributeName` request parameter, then the `attributeValue` request parameter must be the path to ping on the target (for example, `/weather/us/wa/seattle`).
- If you specify `SessionStickinessEnabled` for the `attributeName` request parameter, then the `attributeValue` request parameter must be `true` to activate session stickiness or `false` to deactivate session stickiness.
- If you specify `SessionStickiness_LB_CookieDurationSeconds` for the `attributeName` request parameter, then the `attributeValue` request parameter must be an interger that represents the cookie duration in seconds.
- If you specify `HttpsRedirectionEnabled` for the `attributeName` request parameter, then the `attributeValue` request parameter must be `true` to activate HTTP to HTTPS redirection or `false` to deactivate HTTP to HTTPS redirection.
- If you specify `TlsPolicyName` for the `attributeName` request parameter, then the `attributeValue` request parameter must be the name of the TLS policy.

  Use the GetLoadBalancerTlsPolicies action to get a list of TLS policy names that you can specify.

Type: String

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

Required: Yes

loadBalancerName

The name of the load balancer that you want to modify (`my-load-balancer`.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
```

```
            "createdAt": number,
            "errorCode": "string",
            "errorDetails": "string",
            "id": "string",
            "isTerminal": boolean,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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HTTP Status Code: 400

ServiceException

A general service exception.

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UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

HTTP Status Code: 400

See Also

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

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- AWS SDK for Kotlin
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UpdateRelationalDatabase

Allows the update of one or more attributes of a database in Amazon Lightsail.

Updates are applied immediately, or in cases where the updates could result in an outage, are applied during the database's predefined maintenance window.

The `update relational database` operation supports tag-based access control via resource tags applied to the resource identified by relationalDatabaseName. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "applyImmediately": boolean,
   "caCertificateIdentifier": "string",
   "disableBackupRetention": boolean,
   "enableBackupRetention": boolean,
   "masterUserPassword": "string",
   "preferredBackupWindow": "string",
   "preferredMaintenanceWindow": "string",
   "publiclyAccessible": boolean,
   "relationalDatabaseBlueprintId": "string",
   "relationalDatabaseName": "string",
   "rotateMasterUserPassword": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

applyImmediately

When `true`, applies changes immediately. When `false`, applies changes during the preferred maintenance window. Some changes may cause an outage.

Default: `false`

Type: Boolean

Required: No

caCertificateIdentifier

Indicates the certificate that needs to be associated with the database.

Type: String

Required: No

disableBackupRetention

When `true`, disables automated backup retention for your database.

Disabling backup retention deletes all automated database backups. Before disabling this, you may want to create a snapshot of your database using the `create relational database snapshot` operation.

Updates are applied during the next maintenance window because this can result in an outage.

Type: Boolean

Required: No

enableBackupRetention

When `true`, enables automated backup retention for your database.

Updates are applied during the next maintenance window because this can result in an outage.

Type: Boolean

Required: No

masterUserPassword

The password for the master user. The password can include any printable ASCII character except "/", """, or "@".

My**SQL**

Constraints: Must contain from 8 to 41 characters.

PostgreSQL

Constraints: Must contain from 8 to 128 characters.

Type: String

Required: No

preferredBackupWindow

The daily time range during which automated backups are created for your database if automated backups are enabled.

Constraints:

- Must be in the `hh24:mi-hh24:mi` format.

  Example: `16:00-16:30`
- Specified in Coordinated Universal Time (UTC).
- Must not conflict with the preferred maintenance window.
- Must be at least 30 minutes.

Type: String

Required: No

preferredMaintenanceWindow

The weekly time range during which system maintenance can occur on your database.

The default is a 30-minute window selected at random from an 8-hour block of time for each AWS Region, occurring on a random day of the week.

Constraints:

- Must be in the `ddd:hh24:mi-ddd:hh24:mi` format.
- Valid days: Mon, Tue, Wed, Thu, Fri, Sat, Sun.
- Must be at least 30 minutes.
- Specified in Coordinated Universal Time (UTC).
- Example: `Tue:17:00-Tue:17:30`

Type: String

Required: No

publiclyAccessible

Specifies the accessibility options for your database. A value of `true` specifies a database that is available to resources outside of your Lightsail account. A value of `false` specifies a database that is available only to your Lightsail resources in the same region as your database.

Type: Boolean

Required: No

relationalDatabaseBlueprintId

This parameter is used to update the major version of the database. Enter the `blueprintId` for the major version that you want to update to.

Use the GetRelationalDatabaseBlueprints action to get a list of available blueprint IDs.

Type: String

Required: No

relationalDatabaseName

The name of your Lightsail database resource to update.

Type: String

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

Required: Yes

rotateMasterUserPassword

When `true`, the master user password is changed to a new strong password generated by Lightsail.

Use the `get relational database master user password` operation to get the new password.

Type: Boolean

Required: No

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
```

```
            "id": "string",
            "isTerminal": boolean,
            "location": {
               "availabilityZone": "string",
               "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string",
            "status": "string",
            "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

Lightsail throws this exception when the user cannot be authenticated or uses invalid credentials to access a resource.

HTTP Status Code: 400

AccountSetupInProgressException

Lightsail throws this exception when an account is still in the setup in progress state.

HTTP Status Code: 400

InvalidInputException

Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
> Domain and distribution APIs are only available in the N. Virginia (`us-east-1`) AWS Region. Please set your AWS Region configuration to `us-east-1` to create, view, or edit these resources.

HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

docs

Regions and Availability Zones for Lightsail

tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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

UpdateRelationalDatabaseParameters

Allows the update of one or more parameters of a database in Amazon Lightsail.

Parameter updates don't cause outages; therefore, their application is not subject to the preferred maintenance window. However, there are two ways in which parameter updates are applied: `dynamic` or `pending-reboot`. Parameters marked with a `dynamic` apply type are applied immediately. Parameters marked with a `pending-reboot` apply type are applied only after the database is rebooted using the `reboot relational database` operation.

The `update relational database parameters` operation supports tag-based access control via resource tags applied to the resource identified by relationalDatabaseName. For more information, see the Amazon Lightsail Developer Guide.

Request Syntax

```
{
   "parameters": [
      {
         "allowedValues": "string",
         "applyMethod": "string",
         "applyType": "string",
         "dataType": "string",
         "description": "string",
         "isModifiable": boolean,
         "parameterName": "string",
         "parameterValue": "string"
      }
   ],
   "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters.

The request accepts the following data in JSON format.

parameters

The database parameters to update.

Type: Array of RelationalDatabaseParameter objects

Required: Yes

relationalDatabaseName

The name of your database for which to update parameters.

Type: String

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

Required: Yes

Response Syntax

```
{
   "operations": [
      {
         "createdAt": number,
         "errorCode": "string",
         "errorDetails": "string",
         "id": "string",
         "isTerminal": boolean,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "operationDetails": "string",
         "operationType": "string",
         "resourceName": "string",
         "resourceType": "string",
         "status": "string",
         "statusChangedAt": 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.

operations

An array of objects that describe the result of the action, such as the status of the request, the timestamp of the request, and the resources affected by the request.

Type: Array of Operation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

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Lightsail throws this exception when an account is still in the setup in progress state.

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Lightsail throws this exception when user input does not conform to the validation rules of an input field.

> **Note**
>
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HTTP Status Code: 400

NotFoundException

Lightsail throws this exception when it cannot find a resource.

HTTP Status Code: 400

OperationFailureException

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

RegionSetupInProgressException

Lightsail throws this exception when an operation is performed on resources in an opt-in Region that is currently being set up.

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tip

Opt-in Regions typically take a few minutes to finish setting up before you can work with them. Wait a few minutes and try again.

HTTP Status Code: 400

ServiceException

A general service exception.

HTTP Status Code: 500

UnauthenticatedException

Lightsail throws this exception when the user has not been authenticated.

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See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- 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 Lightsail 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:

- AccessKey
- AccessKeyLastUsed
- AccessRules
- AccountLevelBpaSync
- AddOn
- AddOnRequest
- Alarm
- AttachedDisk
- AutoSnapshotAddOnRequest
- AutoSnapshotDetails
- AvailabilityZone
- Blueprint
- Bucket
- BucketAccessLogConfig
- BucketBundle
- BucketCorsConfig
- BucketCorsRule
- BucketState
- Bundle
- CacheBehavior

- CacheBehaviorPerPath
- CacheSettings
- Certificate
- CertificateSummary
- CloudFormationStackRecord
- CloudFormationStackRecordSourceInfo
- ContactMethod
- Container
- ContainerImage
- ContainerService
- ContainerServiceDeployment
- ContainerServiceDeploymentRequest
- ContainerServiceECRImagePullerRole
- ContainerServiceECRImagePullerRoleRequest
- ContainerServiceEndpoint
- ContainerServiceHealthCheckConfig
- ContainerServiceLogEvent
- ContainerServicePower
- ContainerServiceRegistryLogin
- ContainerServiceStateDetail
- CookieObject
- CostEstimate
- DestinationInfo
- Disk
- DiskInfo
- DiskMap
- DiskSnapshot
- DiskSnapshotInfo
- DistributionBundle
- DistributionCustomErrorResponse

- DnsRecordCreationState
- Domain
- DomainEntry
- DomainValidationRecord
- EndpointRequest
- EstimateByTime
- ExportSnapshotRecord
- ExportSnapshotRecordSourceInfo
- HeaderObject
- HostKeyAttributes
- InputOrigin
- Instance
- InstanceAccessDetails
- InstanceEntry
- InstanceHardware
- InstanceHealthSummary
- InstanceMetadataOptions
- InstanceNetworking
- InstancePortInfo
- InstancePortState
- InstanceSnapshot
- InstanceSnapshotInfo
- InstanceState
- KeyPair
- LightsailDistribution
- LoadBalancer
- LoadBalancerTlsCertificate
- LoadBalancerTlsCertificateDnsRecordCreationState
- LoadBalancerTlsCertificateDomainValidationOption
- LoadBalancerTlsCertificateDomainValidationRecord

- LoadBalancerTlsCertificateRenewalSummary
- LoadBalancerTlsCertificateSummary
- LoadBalancerTlsPolicy
- LogEvent
- MetricDatapoint
- MonitoredResourceInfo
- MonthlyTransfer
- NameServersUpdateState
- Operation
- Origin
- PartnerInfo
- PasswordData
- PendingMaintenanceAction
- PendingModifiedRelationalDatabaseValues
- PortInfo
- PrivateRegistryAccess
- PrivateRegistryAccessRequest
- QueryStringObject
- R53HostedZoneDeletionState
- Region
- RegisteredDomainDelegationInfo
- RelationalDatabase
- RelationalDatabaseBlueprint
- RelationalDatabaseBundle
- RelationalDatabaseEndpoint
- RelationalDatabaseEvent
- RelationalDatabaseHardware
- RelationalDatabaseParameter
- RelationalDatabaseSnapshot
- RenewalSummary

- ResourceBudgetEstimate
- ResourceLocation
- ResourceReceivingAccess
- ResourceRecord
- Session
- SetupExecutionDetails
- SetupHistory
- SetupHistoryResource
- SetupRequest
- StaticIp
- StopInstanceOnIdleRequest
- Tag
- TimePeriod

AccessKey

Describes an access key for an Amazon Lightsail bucket.

Access keys grant full programmatic access to the specified bucket and its objects. You can have a maximum of two access keys per bucket. Use the CreateBucketAccessKey action to create an access key for a specific bucket. For more information about access keys, see Creating access keys for a bucket in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

> **Important**
>
> The `secretAccessKey` value is returned only in response to the `CreateBucketAccessKey` action. You can get a secret access key only when you first create an access key; you cannot get the secret access key later. If you lose the secret access key, you must create a new access key.

Contents

accessKeyId

The ID of the access key.

Type: String

Length Constraints: Fixed length of 20.

Pattern: `^[A-Z0-9]{20}$`

Required: No

createdAt

The timestamp when the access key was created.

Type: Timestamp

Required: No

lastUsed

An object that describes the last time the access key was used.

> **Note**
>
> This object does not include data in the response of a CreateBucketAccessKey action. If the access key has not been used, the `region` and `serviceName` values are `N/A`, and the `lastUsedDate` value is null.

Type: AccessKeyLastUsed object

Required: No

secretAccessKey

The secret access key used to sign requests.

You should store the secret access key in a safe location. We recommend that you delete the access key if the secret access key is compromised.

Type: String

Pattern: `.*\S.*`

Required: No

status

The status of the access key.

A status of `Active` means that the key is valid, while `Inactive` means it is not.

Type: String

Valid Values: `Active | Inactive`

Required: No

See Also

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

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

AccessKeyLastUsed

Describes the last time an access key was used.

> **Note**
>
> This object does not include data in the response of a CreateBucketAccessKey action.

Contents

lastUsedDate

The date and time when the access key was most recently used.

This value is null if the access key has not been used.

Type: Timestamp

Required: No

region

The AWS Region where this access key was most recently used.

This value is `N/A` if the access key has not been used.

Type: String

Required: No

serviceName

The name of the AWS service with which this access key was most recently used.

This value is `N/A` if the access key has not been used.

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

AccessRules

Describes the anonymous access permissions for an Amazon Lightsail bucket and its objects.

For more information about bucket access permissions, see Understanding bucket permissions in Amazon Lightsail in the

Amazon Lightsail Developer Guide.

Contents

allowPublicOverrides

A Boolean value that indicates whether the access control list (ACL) permissions that are applied to individual objects override the `getObject` option that is currently specified.

When this is true, you can use the PutObjectAcl Amazon S3 API action to set individual objects to public (read-only) using the `public-read` ACL, or to private using the `private` ACL.

Type: Boolean

Required: No

getObject

Specifies the anonymous access to all objects in a bucket.

The following options can be specified:

- `public` - Sets all objects in the bucket to public (read-only), making them readable by anyone in the world.

  If the `getObject` value is set to `public`, then all objects in the bucket default to public regardless of the `allowPublicOverrides` value.
- `private` - Sets all objects in the bucket to private, making them readable only by you or anyone you give access to.

  If the `getObject` value is set to `private`, and the `allowPublicOverrides` value is set to `true`, then all objects in the bucket default to private unless they are configured with a `public-read` ACL. Individual objects with a `public-read` ACL are readable by anyone in the world.

Type: String

Valid Values: `public | private`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AccountLevelBpaSync

Describes the synchronization status of the Amazon Simple Storage Service (Amazon S3) account-level block public access (BPA) feature for your Lightsail buckets.

The account-level BPA feature of Amazon S3 provides centralized controls to limit public access to all Amazon S3 buckets in an account. BPA can make all Amazon S3 buckets in an AWS account private regardless of the individual bucket and object permissions that are configured. Lightsail buckets take into account the Amazon S3 account-level BPA configuration when allowing or denying public access. To do this, Lightsail periodically fetches the account-level BPA configuration from Amazon S3. When the account-level BPA status is `InSync`, the Amazon S3 account-level BPA configuration is synchronized and it applies to your Lightsail buckets. For more information about Amazon Simple Storage Service account-level BPA and how it affects Lightsail buckets, see Block public access for buckets in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

Contents

bpaImpactsLightsail

A Boolean value that indicates whether account-level block public access is affecting your Lightsail buckets.

Type: Boolean

Required: No

lastSyncedAt

The timestamp of when the account-level BPA configuration was last synchronized. This value is null when the account-level BPA configuration has not been synchronized.

Type: Timestamp

Required: No

message

A message that provides a reason for a `Failed` or `Defaulted` synchronization status.

The following messages are possible:

- `SYNC_ON_HOLD` - The synchronization has not yet happened. This status message occurs immediately after you create your first Lightsail bucket. This status message should change after the first synchronization happens, approximately 1 hour after the first bucket is created.
- `DEFAULTED_FOR_SLR_MISSING` - The synchronization failed because the required service-linked role is missing from your AWS account. The account-level BPA configuration for your Lightsail buckets is defaulted to *active* until the synchronization can occur. This means that all your buckets are private and not publicly accessible. For more information about how to create the required service-linked role to allow synchronization, see Using Service-Linked Roles for Amazon Lightsail in the *Amazon Lightsail Developer Guide*.
- `DEFAULTED_FOR_SLR_MISSING_ON_HOLD` - The synchronization failed because the required service-linked role is missing from your AWS account. Account-level BPA is not yet configured for your Lightsail buckets. Therefore, only the bucket access permissions and individual object access permissions apply to your Lightsail buckets. For more information about how to create the required service-linked role to allow synchronization, see Using Service-Linked Roles for Amazon Lightsail in the *Amazon Lightsail Developer Guide*.
- `Unknown` - The reason that synchronization failed is unknown. Contact AWS Support for more information.

Type: String

Valid Values: `DEFAULTED_FOR_SLR_MISSING | SYNC_ON_HOLD | DEFAULTED_FOR_SLR_MISSING_ON_HOLD | Unknown`

Required: No

status

The status of the account-level BPA synchronization.

The following statuses are possible:

- `InSync` - Account-level BPA is synchronized. The Amazon S3 account-level BPA configuration applies to your Lightsail buckets.
- `NeverSynced` - Synchronization has not yet happened. The Amazon S3 account-level BPA configuration does not apply to your Lightsail buckets.
- `Failed` - Synchronization failed. The Amazon S3 account-level BPA configuration does not apply to your Lightsail buckets.
- `Defaulted` - Synchronization failed and account-level BPA for your Lightsail buckets is defaulted to *active*.

> **Note**
>
> You might need to complete further actions if the status is `Failed` or `Defaulted`. The `message` parameter provides more information for those statuses.

Type: String

Valid Values: `InSync | Failed | NeverSynced | Defaulted`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AddOn

Describes an add-on that is enabled for an Amazon Lightsail resource.

Contents

duration

The amount of idle time in minutes after which your virtual computer will automatically stop.

> **Important**
> This add-on only applies to Lightsail for Research resources.

Type: String

Required: No

name

The name of the add-on.

Type: String

Required: No

nextSnapshotTimeOfDay

The next daily time an automatic snapshot will be created.

The time shown is in `HH:00` format, and in Coordinated Universal Time (UTC).

The snapshot is automatically created between the time shown and up to 45 minutes after.

Type: String

Pattern: `^(0[0-9]|1[0-9]|2[0-3]):[0-5][0-9]$`

Required: No

snapshotTimeOfDay

The daily time when an automatic snapshot is created.

The time shown is in `HH:00` format, and in Coordinated Universal Time (UTC).

The snapshot is automatically created between the time shown and up to 45 minutes after.

Type: String

Pattern: `^(0[0-9]|1[0-9]|2[0-3]):[0-5][0-9]$`

Required: No

status

The status of the add-on.

Type: String

Required: No

threshold

The trigger threshold of the action.

> **Important**
> This add-on only applies to Lightsail for Research resources.

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

AddOnRequest

Describes a request to enable, modify, or disable an add-on for an Amazon Lightsail resource.

> **Note**
>
> An additional cost may be associated with enabling add-ons. For more information, see the Lightsail pricing page.

Contents

addOnType

The add-on type.

Type: String

Valid Values: `AutoSnapshot | StopInstanceOnIdle`

Required: Yes

autoSnapshotAddOnRequest

An object that represents additional parameters when enabling or modifying the automatic snapshot add-on.

Type: AutoSnapshotAddOnRequest object

Required: No

stopInstanceOnIdleRequest

An object that represents additional parameters when enabling or modifying the `StopInstanceOnIdle` add-on.

> **Important**
>
> This object only applies to Lightsail for Research resources.

Type: StopInstanceOnIdleRequest 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

Alarm

Describes an alarm.

An alarm is a way to monitor your Lightsail resource metrics. For more information, see Alarms in Amazon Lightsail.

Contents

arn

The Amazon Resource Name (ARN) of the alarm.

Type: String

Pattern: `.*\S.*`

Required: No

comparisonOperator

The arithmetic operation used when comparing the specified statistic and threshold.

Type: String

Valid Values: `GreaterThanOrEqualToThreshold | GreaterThanThreshold | LessThanThreshold | LessThanOrEqualToThreshold`

Required: No

contactProtocols

The contact protocols for the alarm, such as `Email`, `SMS` (text messaging), or both.

Type: Array of strings

Valid Values: `Email | SMS`

Required: No

createdAt

The timestamp when the alarm was created.

Type: Timestamp

Required: No

datapointsToAlarm

The number of data points that must not within the specified threshold to trigger the alarm.

Type: Integer

Required: No

evaluationPeriods

The number of periods over which data is compared to the specified threshold.

Type: Integer

Required: No

location

An object that lists information about the location of the alarm.

Type: ResourceLocation object

Required: No

metricName

The name of the metric associated with the alarm.

Type: String

Valid Values: `CPUUtilization | NetworkIn | NetworkOut | StatusCheckFailed | StatusCheckFailed_Instance | StatusCheckFailed_System | ClientTLSNegotiationErrorCount | HealthyHostCount | UnhealthyHostCount | HTTPCode_LB_4XX_Count | HTTPCode_LB_5XX_Count | HTTPCode_Instance_2XX_Count | HTTPCode_Instance_3XX_Count | HTTPCode_Instance_4XX_Count | HTTPCode_Instance_5XX_Count | InstanceResponseTime | RejectedConnectionCount | RequestCount | DatabaseConnections | DiskQueueDepth | FreeStorageSpace | NetworkReceiveThroughput | NetworkTransmitThroughput | FreeableMemory | SwapUsage | BurstCapacityTime | BurstCapacityPercentage`

Required: No

monitoredResourceInfo

An object that lists information about the resource monitored by the alarm.

Type: MonitoredResourceInfo object

Required: No

name

The name of the alarm.

Type: String

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

Required: No

notificationEnabled

Indicates whether the alarm is enabled.

Type: Boolean

Required: No

notificationTriggers

The alarm states that trigger a notification.

Type: Array of strings

Valid Values: `OK | ALARM | INSUFFICIENT_DATA`

Required: No

period

The period, in seconds, over which the statistic is applied.

Type: Integer

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

Required: No

resourceType

The Lightsail resource type of the alarm.

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

state

The current state of the alarm.

An alarm has the following possible states:

- `ALARM` - The metric is outside of the defined threshold.
- `INSUFFICIENT_DATA` - The alarm has just started, the metric is not available, or not enough data is available for the metric to determine the alarm state.
- `OK` - The metric is within the defined threshold.

Type: String

Valid Values: `OK | ALARM | INSUFFICIENT_DATA`

Required: No

statistic

The statistic for the metric associated with the alarm.

The following statistics are available:

- `Minimum` - The lowest value observed during the specified period. Use this value to determine low volumes of activity for your application.
- `Maximum` - The highest value observed during the specified period. Use this value to determine high volumes of activity for your application.

- `Sum` - All values submitted for the matching metric added together. You can use this statistic to determine the total volume of a metric.
- `Average` - The value of Sum / SampleCount during the specified period. By comparing this statistic with the Minimum and Maximum values, you can determine the full scope of a metric and how close the average use is to the Minimum and Maximum values. This comparison helps you to know when to increase or decrease your resources.
- `SampleCount` - The count, or number, of data points used for the statistical calculation.

Type: String

Valid Values: `Minimum | Maximum | Sum | Average | SampleCount`

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about your Lightsail alarm. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag objects

Required: No

threshold

The value against which the specified statistic is compared.

Type: Double

Required: No

treatMissingData

Specifies how the alarm handles missing data points.

An alarm can treat missing data in the following ways:

- `breaching` - Assume the missing data is not within the threshold. Missing data counts towards the number of times the metric is not within the threshold.
- `notBreaching` - Assume the missing data is within the threshold. Missing data does not count towards the number of times the metric is not within the threshold.
- `ignore` - Ignore the missing data. Maintains the current alarm state.
- `missing` - Missing data is treated as missing.

Type: String

Valid Values: `breaching | notBreaching | ignore | missing`

Required: No

unit

The unit of the metric associated with the alarm.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AttachedDisk

Describes a block storage disk that is attached to an instance, and is included in an automatic snapshot.

Contents

path

The path of the disk (`/dev/xvdf`).

Type: String

Required: No

sizeInGb

The size of the disk in GB.

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

AutoSnapshotAddOnRequest

Describes a request to enable or modify the automatic snapshot add-on for an Amazon Lightsail instance or disk.

When you modify the automatic snapshot time for a resource, it is typically effective immediately except under the following conditions:

- If an automatic snapshot has been created for the current day, and you change the snapshot time to a later time of day, then the new snapshot time will be effective the following day. This ensures that two snapshots are not created for the current day.
- If an automatic snapshot has not yet been created for the current day, and you change the snapshot time to an earlier time of day, then the new snapshot time will be effective the following day and a snapshot is automatically created at the previously set time for the current day. This ensures that a snapshot is created for the current day.
- If an automatic snapshot has not yet been created for the current day, and you change the snapshot time to a time that is within 30 minutes from your current time, then the new snapshot time will be effective the following day and a snapshot is automatically created at the previously set time for the current day. This ensures that a snapshot is created for the current day, because 30 minutes is required between your current time and the new snapshot time that you specify.
- If an automatic snapshot is scheduled to be created within 30 minutes from your current time and you change the snapshot time, then the new snapshot time will be effective the following day and a snapshot is automatically created at the previously set time for the current day. This ensures that a snapshot is created for the current day, because 30 minutes is required between your current time and the new snapshot time that you specify.

Contents

snapshotTimeOfDay

The daily time when an automatic snapshot will be created.

Constraints:

- Must be in `HH:00` format, and in an hourly increment.
- Specified in Coordinated Universal Time (UTC).
- The snapshot will be automatically created between the time specified and up to 45 minutes after.

Type: String

Pattern: `^(0[0-9]|1[0-9]|2[0-3]):[0-5][0-9]$`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AutoSnapshotDetails

Describes an automatic snapshot.

Contents

createdAt

The timestamp when the automatic snapshot was created.

Type: Timestamp

Required: No

date

The date of the automatic snapshot in `YYYY-MM-DD` format.

Type: String

Required: No

fromAttachedDisks

An array of objects that describe the block storage disks attached to the instance when the automatic snapshot was created.

Type: Array of AttachedDisk objects

Required: No

status

The status of the automatic snapshot.

Type: String

Valid Values: `Success | Failed | InProgress | NotFound`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

AvailabilityZone

Describes an Availability Zone. This is returned only as part of a `GetRegions` request.

Contents

state

The state of the Availability Zone.

Type: String

Pattern: `.*\S.*`

Required: No

zoneName

The name of the Availability Zone. The format is `us-east-2a` (case-sensitive).

Type: String

Pattern: `.*\S.*`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Blueprint

Describes a blueprint (a virtual private server image).

Contents

appCategory

Virtual computer blueprints that are supported by Lightsail for Research.

> **Important**
>
> This parameter only applies to Lightsail for Research resources.

Type: String

Valid Values: `LfR`

Required: No

blueprintId

The ID for the virtual private server image (`app_wordpress_x_x` or `app_lamp_x_x`).

Type: String

Pattern: `.*\S.*`

Required: No

description

The description of the blueprint.

Type: String

Required: No

group

The group name of the blueprint (`amazon-linux`).

Type: String

Pattern: `.*\S.*`

Required: No

isActive

A Boolean value indicating whether the blueprint is active. Inactive blueprints are listed to support customers with existing instances but are not necessarily available for launch of new instances. Blueprints are marked inactive when they become outdated due to operating system updates or new application releases.

Type: Boolean

Required: No

licenseUrl

The end-user license agreement URL for the image or blueprint.

Type: String

Required: No

minPower

The minimum bundle power required to run this blueprint. For example, you need a bundle with a power value of 500 or more to create an instance that uses a blueprint with a minimum power value of 500. `0` indicates that the blueprint runs on all instance sizes.

Type: Integer

Required: No

name

The friendly name of the blueprint (`Amazon Linux`).

Type: String

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

Required: No

platform

The operating system platform (either Linux/Unix-based or Windows Server-based) of the blueprint.

Type: String

Valid Values: `LINUX_UNIX | WINDOWS`

Required: No

productUrl

The product URL to learn more about the image or blueprint.

Type: String

Required: No

type

The type of the blueprint (`os` or `app`).

Type: String

Valid Values: `os | app`

Required: No

version

The version number of the operating system, application, or stack (`2016.03.0`).

Type: String

Required: No

versionCode

The version code.

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

Bucket

Describes an Amazon Lightsail bucket.

Contents

ableToUpdateBundle

Indicates whether the bundle that is currently applied to a bucket can be changed to another bundle.

You can update a bucket's bundle only one time within a monthly AWS billing cycle.

Use the UpdateBucketBundle action to change a bucket's bundle.

Type: Boolean

Required: No

accessLogConfig

An object that describes the access log configuration for the bucket.

Type: BucketAccessLogConfig object

Required: No

accessRules

An object that describes the access rules of the bucket.

Type: AccessRules object

Required: No

arn

The Amazon Resource Name (ARN) of the bucket.

Type: String

Pattern: `.*\S.*`

Required: No

bundleId

The ID of the bundle currently applied to the bucket.

A bucket bundle specifies the monthly cost, storage space, and data transfer quota for a bucket.

Use the UpdateBucketBundle action to change the bundle of a bucket.

Type: String

Pattern: `.*\S.*`

Required: No

cors

An array of cross-origin resource sharing (CORS) rules that identify origins and the HTTP methods that can be executed on your bucket. This field is only included in the response when CORS configuration is requested or when updating CORS configuration. For more information, see Configuring cross-origin resource sharing (CORS).

Type: BucketCorsConfig object

Required: No

createdAt

The timestamp when the distribution was created.

Type: Timestamp

Required: No

location

An object that describes the location of the bucket, such as the AWS Region and Availability Zone.

Type: ResourceLocation object

Required: No

name

The name of the bucket.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 54.

Pattern: `^[a-z0-9][a-z0-9-]{1,52}[a-z0-9]$`

Required: No

objectVersioning

Indicates whether object versioning is enabled for the bucket.

The following options can be configured:

- `Enabled` - Object versioning is enabled.
- `Suspended` - Object versioning was previously enabled but is currently suspended. Existing object versions are retained.
- `NeverEnabled` - Object versioning has never been enabled.

Type: String

Pattern: `.*\S.*`

Required: No

readonlyAccessAccounts

An array of strings that specify the AWS account IDs that have read-only access to the bucket.

Type: Array of strings

Array Members: Maximum number of 10 items.

Pattern: `.*\S.*`

Required: No

resourcesReceivingAccess

An array of objects that describe Lightsail instances that have access to the bucket.

Use the SetResourceAccessForBucket action to update the instances that have access to a bucket.

Type: Array of ResourceReceivingAccess objects

Required: No

resourceType

The Lightsail resource type of the bucket.

Type: String

Pattern: `.*\S.*`

Required: No

state

An object that describes the state of the bucket.

Type: BucketState object

Required: No

supportCode

The support code for a bucket. Include this code in your email to support when you have questions about a Lightsail bucket. This code enables our support team to look up your Lightsail information more easily.

Type: String

Pattern: `.*\S.*`

Required: No

tags

The tag keys and optional values for the bucket. For more information, see Tags in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

Type: Array of Tag objects

Required: No

url

The URL of the bucket.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

BucketAccessLogConfig

Describes the access log configuration for a bucket in the Amazon Lightsail object storage service.

For more information about bucket access logs, see Logging bucket requests using access logging in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

Contents

enabled

A Boolean value that indicates whether bucket access logging is enabled for the bucket.

Type: Boolean

Required: Yes

destination

The name of the bucket where the access logs are saved. The destination can be a Lightsail bucket in the same account, and in the same AWS Region as the source bucket.

> **Note**
> This parameter is required when enabling the access log for a bucket, and should be omitted when disabling the access log.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 54.

Pattern: `^[a-z0-9][a-z0-9-]{1,52}[a-z0-9]$`

Required: No

prefix

The optional object prefix for the bucket access log.

The prefix is an optional addition to the object key that organizes your access log files in the destination bucket. For example, if you specify a `logs/` prefix, then each log object

will begin with the `logs/` prefix in its key (for example, `logs/2021-11-01-21-32-16-E568B2907131C0C0`).

> **Note**
>
> This parameter can be optionally specified when enabling the access log for a bucket, and should be omitted when disabling the access log.

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

BucketBundle

Describes the specifications of a bundle that can be applied to an Amazon Lightsail bucket.

A bucket bundle specifies the monthly cost, storage space, and data transfer quota for a bucket.

Contents

bundleId

The ID of the bundle.

Type: String

Pattern: `.*\S.*`

Required: No

isActive

Indicates whether the bundle is active. Use for a new or existing bucket.

Type: Boolean

Required: No

name

The name of the bundle.

Type: String

Pattern: `.*\S.*`

Required: No

price

The monthly price of the bundle, in US dollars.

Type: Float

Required: No

storagePerMonthInGb

The storage size of the bundle, in GB.

Type: Integer

Required: No

transferPerMonthInGb

The monthly network transfer quota of the bundle.

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

BucketCorsConfig

Describes the cross-origin resource sharing (CORS) configuration for a Lightsail bucket. CORS defines a way for client web applications that are loaded in one domain to interact with resources in a different domain. For more information, see Configuring cross-origin resource sharing (CORS).

Contents

rules

A set of origins and methods (cross-origin access that you want to allow). You can add up to 20 rules to the configuration. The total size is limited to 64 KB.

Type: Array of BucketCorsRule objects

Array Members: Maximum number of 20 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

BucketCorsRule

Describes a cross-origin resource sharing (CORS) rule for a Lightsail bucket. CORS rules specify which origins are allowed to access the bucket, which HTTP methods are allowed, and other access control information. For more information, see Configuring cross-origin resource sharing (CORS).

Contents

allowedMethods

The HTTP methods that are allowed when accessing the bucket from the specified origin. Each CORS rule must identify at least one origin and one method.

You can use the following HTTP methods:

- `GET` - Retrieves data from the server, such as downloading files or viewing content.
- `PUT` - Uploads or replaces data on the server, such as uploading new files.
- `POST` - Sends data to the server for processing, such as submitting forms or creating new resources.
- `DELETE` - Removes data from the server, such as deleting files or resources.
- `HEAD` - Retrieves only the headers from the server without the actual content, useful for checking if a resource exists.

Type: Array of strings

Pattern: `^(DELETE|GET|HEAD|POST|PUT)$`

Required: Yes

allowedOrigins

One or more origins you want customers to be able to access the bucket from. Each CORS rule must identify at least one origin and one method.

Type: Array of strings

Required: Yes

allowedHeaders

Headers that are specified in the `Access-Control-Request-Headers` header. These headers are allowed in a preflight `OPTIONS` request. In response to any preflight `OPTIONS` request, Amazon S3 returns any requested headers that are allowed.

Type: Array of strings

Required: No

exposeHeaders

One or more headers in the response that you want customers to be able to access from their applications (for example, from a JavaScript `XMLHttpRequest` object).

Type: Array of strings

Required: No

id

A unique identifier for the CORS rule. The ID value can be up to 255 characters long. The IDs help you find a rule in the configuration.

Type: String

Length Constraints: Maximum length of 255.

Required: No

maxAgeSeconds

The time in seconds that your browser is to cache the preflight response for the specified resource. A CORS rule can have only one `maxAgeSeconds` element.

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

BucketState

Describes the state of an Amazon Lightsail bucket.

Contents

code

The state code of the bucket.

The following codes are possible:

- `OK` - The bucket is in a running state.
- `Unknown` - Creation of the bucket might have timed-out. You might want to delete the bucket and create a new one.

Type: String

Pattern: `.*\S.*`

Required: No

message

A message that describes the state of the bucket.

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Bundle

Describes a bundle, which is a set of specs describing your virtual private server (or *instance*).

Contents

bundleId

The bundle ID (`micro_x_x`).

Type: String

Pattern: `.*\S.*`

Required: No

cpuCount

The number of vCPUs included in the bundle (2).

Type: Integer

Required: No

diskSizeInGb

The size of the SSD (`30`).

Type: Integer

Required: No

instanceType

The instance type (`micro`).

Type: String

Required: No

isActive

A Boolean value indicating whether the bundle is active.

Type: Boolean

Required: No

name

A friendly name for the bundle (`Micro`).

Type: String

Required: No

power

A numeric value that represents the power of the bundle (`500`). You can use the bundle's power value in conjunction with a blueprint's minimum power value to determine whether the blueprint will run on the bundle. For example, you need a bundle with a power value of 500 or more to create an instance that uses a blueprint with a minimum power value of 500.

Type: Integer

Required: No

price

The price in US dollars (`5.0`) of the bundle.

Type: Float

Required: No

publicIpv4AddressCount

An integer that indicates the public ipv4 address count included in the bundle, the value is either 0 or 1.

Type: Integer

Required: No

ramSizeInGb

The amount of RAM in GB (`2.0`).

Type: Float

Required: No

supportedAppCategories

Virtual computer blueprints that are supported by a Lightsail for Research bundle.

> **Important**
>
> This parameter only applies to Lightsail for Research resources.

Type: Array of strings

Valid Values: `LfR`

Required: No

supportedPlatforms

The operating system platform (Linux/Unix-based or Windows Server-based) that the bundle supports. You can only launch a `WINDOWS` bundle on a blueprint that supports the `WINDOWS` platform. `LINUX_UNIX` blueprints require a `LINUX_UNIX` bundle.

Type: Array of strings

Valid Values: `LINUX_UNIX | WINDOWS`

Required: No

transferPerMonthInGb

The data transfer rate per month in GB (`2000`).

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

CacheBehavior

Describes the default cache behavior of an Amazon Lightsail content delivery network (CDN) distribution.

Contents

behavior

The cache behavior of the distribution.

The following cache behaviors can be specified:

- **`cache`** - This option is best for static sites. When specified, your distribution caches and serves your entire website as static content. This behavior is ideal for websites with static content that doesn't change depending on who views it, or for websites that don't use cookies, headers, or query strings to personalize content.
- **`dont-cache`** - This option is best for sites that serve a mix of static and dynamic content. When specified, your distribution caches and serve only the content that is specified in the distribution's `CacheBehaviorPerPath` parameter. This behavior is ideal for websites or web applications that use cookies, headers, and query strings to personalize content for individual users.

Type: String

Valid Values: `dont-cache | cache`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CacheBehaviorPerPath

Describes the per-path cache behavior of an Amazon Lightsail content delivery network (CDN) distribution.

A per-path cache behavior is used to override, or add an exception to, the default cache behavior of a distribution. For example, if the `cacheBehavior` is set to `cache`, then a per-path cache behavior can be used to specify a directory, file, or file type that your distribution will cache. Alternately, if the distribution's `cacheBehavior` is `dont-cache`, then a per-path cache behavior can be used to specify a directory, file, or file type that your distribution will not cache.

Contents

behavior

The cache behavior for the specified path.

You can specify one of the following per-path cache behaviors:

- **`cache`** - This behavior caches the specified path.
- **`dont-cache`** - This behavior doesn't cache the specified path.

Type: String

Valid Values: `dont-cache | cache`

Required: No

path

The path to a directory or file to cached, or not cache. Use an asterisk symbol to specify wildcard directories (`path/to/assets/*`), and file types (`*.html, *jpg, *js`). Directories and file paths are case-sensitive.

Examples:

- Specify the following to cache all files in the document root of an Apache web server running on a Lightsail instance.

  `var/www/html/`
- Specify the following file to cache only the index page in the document root of an Apache web server.

`var/www/html/index.html`

- Specify the following to cache only the .html files in the document root of an Apache web server.

  `var/www/html/*.html`

- Specify the following to cache only the .jpg, .png, and .gif files in the images sub-directory of the document root of an Apache web server.

  `var/www/html/images/*.jpg`

  `var/www/html/images/*.png`

  `var/www/html/images/*.gif`

  Specify the following to cache all files in the images sub-directory of the document root of an Apache web server.

  `var/www/html/images/`

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

CacheSettings

Describes the cache settings of an Amazon Lightsail content delivery network (CDN) distribution.

These settings apply only to your distribution's `cacheBehaviors` (including the `defaultCacheBehavior`) that have a `behavior` of `cache`.

Contents

allowedHTTPMethods

The HTTP methods that are processed and forwarded to the distribution's origin.

You can specify the following options:

- `GET,HEAD` - The distribution forwards the `GET` and `HEAD` methods.
- `GET,HEAD,OPTIONS` - The distribution forwards the `GET`, `HEAD`, and `OPTIONS` methods.
- `GET,HEAD,OPTIONS,PUT,PATCH,POST,DELETE` - The distribution forwards the `GET`, `HEAD`, `OPTIONS`, `PUT`, `PATCH`, `POST`, and `DELETE` methods.

If you specify the third option, you might need to restrict access to your distribution's origin so users can't perform operations that you don't want them to. For example, you might not want users to have permission to delete objects from your origin.

Type: String

Pattern: `.*\S.*`

Required: No

cachedHTTPMethods

The HTTP method responses that are cached by your distribution.

You can specify the following options:

- `GET,HEAD` - The distribution caches responses to the `GET` and `HEAD` methods.
- `GET,HEAD,OPTIONS` - The distribution caches responses to the `GET`, `HEAD`, and `OPTIONS` methods.

Type: String

Pattern: `.*\S.*`

Required: No

defaultTTL

The default amount of time that objects stay in the distribution's cache before the distribution forwards another request to the origin to determine whether the content has been updated.

> **Note**
>
> The value specified applies only when the origin does not add HTTP headers such as `Cache-Control max-age`, `Cache-Control s-maxage`, and `Expires` to objects.

Type: Long

Required: No

forwardedCookies

An object that describes the cookies that are forwarded to the origin. Your content is cached based on the cookies that are forwarded.

Type: CookieObject object

Required: No

forwardedHeaders

An object that describes the headers that are forwarded to the origin. Your content is cached based on the headers that are forwarded.

Type: HeaderObject object

Required: No

forwardedQueryStrings

An object that describes the query strings that are forwarded to the origin. Your content is cached based on the query strings that are forwarded.

Type: QueryStringObject object

Required: No

maximumTTL

The maximum amount of time that objects stay in the distribution's cache before the distribution forwards another request to the origin to determine whether the object has been updated.

The value specified applies only when the origin adds HTTP headers such as `Cache-Control max-age`, `Cache-Control s-maxage`, and `Expires` to objects.

Type: Long

Required: No

minimumTTL

The minimum amount of time that objects stay in the distribution's cache before the distribution forwards another request to the origin to determine whether the object has been updated.

A value of `0` must be specified for `minimumTTL` if the distribution is configured to forward all headers to the origin.

Type: Long

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Certificate

Describes the full details of an Amazon Lightsail SSL/TLS certificate.

> **Note**
>
> To get a summary of a certificate, use the `GetCertificates` action and omit `includeCertificateDetails` from your request. The response will include only the certificate Amazon Resource Name (ARN), certificate name, domain name, and tags.

Contents

arn

The Amazon Resource Name (ARN) of the certificate.

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The timestamp when the certificate was created.

Type: Timestamp

Required: No

domainName

The domain name of the certificate.

Type: String

Required: No

domainValidationRecords

An array of objects that describe the domain validation records of the certificate.

Type: Array of DomainValidationRecord objects

Required: No

eligibleToRenew

The renewal eligibility of the certificate.

Type: String

Required: No

inUseResourceCount

The number of Lightsail resources that the certificate is attached to.

Type: Integer

Required: No

issuedAt

The timestamp when the certificate was issued.

Type: Timestamp

Required: No

issuerCA

The certificate authority that issued the certificate.

Type: String

Required: No

keyAlgorithm

The algorithm used to generate the key pair (the public and private key) of the certificate.

Type: String

Required: No

name

The name of the certificate (`my-certificate`).

Type: String

Required: No

notAfter

The timestamp when the certificate expires.

Type: Timestamp

Required: No

notBefore

The timestamp when the certificate is first valid.

Type: Timestamp

Required: No

renewalSummary

An object that describes the status of the certificate renewal managed by Lightsail.

Type: RenewalSummary object

Required: No

requestFailureReason

The validation failure reason, if any, of the certificate.

The following failure reasons are possible:

- **`NO_AVAILABLE_CONTACTS`** - This failure applies to email validation, which is not available for Lightsail certificates.
- **`ADDITIONAL_VERIFICATION_REQUIRED`** - Lightsail requires additional information to process this certificate request. This can happen as a fraud-protection measure, such as when the domain ranks within the Alexa top 1000 websites. To provide the required information, use the AWS Support Center to contact AWS Support.

  > **Note**
  >
  > You cannot request a certificate for Amazon-owned domain names such as those ending in amazonaws.com, cloudfront.net, or elasticbeanstalk.com.

- **`DOMAIN_NOT_ALLOWED`** - One or more of the domain names in the certificate request was reported as an unsafe domain by VirusTotal. To correct the problem, search for your domain

name on the VirusTotal website. If your domain is reported as suspicious, see Google Help for Hacked Websites to learn what you can do.

If you believe that the result is a false positive, notify the organization that is reporting the domain. VirusTotal is an aggregate of several antivirus and URL scanners and cannot remove your domain from a block list itself. After you correct the problem and the VirusTotal registry has been updated, request a new certificate.

If you see this error and your domain is not included in the VirusTotal list, visit the AWS Support Center and create a case.

- **`INVALID_PUBLIC_DOMAIN`** - One or more of the domain names in the certificate request is not valid. Typically, this is because a domain name in the request is not a valid top-level domain. Try to request a certificate again, correcting any spelling errors or typos that were in the failed request, and ensure that all domain names in the request are for valid top-level domains. For example, you cannot request a certificate for `example.invalidpublicdomain` because `invalidpublicdomain` is not a valid top-level domain.
- **`OTHER`** - Typically, this failure occurs when there is a typographical error in one or more of the domain names in the certificate request. Try to request a certificate again, correcting any spelling errors or typos that were in the failed request.

Type: String

Required: No

revocationReason

The reason the certificate was revoked. This value is present only when the certificate status is `REVOKED`.

Type: String

Required: No

revokedAt

The timestamp when the certificate was revoked. This value is present only when the certificate status is `REVOKED`.

Type: Timestamp

Required: No

serialNumber

The serial number of the certificate.

Type: String

Required: No

status

The validation status of the certificate.

Type: String

Valid Values: `PENDING_VALIDATION | ISSUED | INACTIVE | EXPIRED | VALIDATION_TIMED_OUT | REVOKED | FAILED`

Required: No

subjectAlternativeNames

An array of strings that specify the alternate domains (`example2.com`) and subdomains (`blog.example.com`) of the certificate.

Type: Array of strings

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about your Lightsail certificate. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag 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

CertificateSummary

Describes an Amazon Lightsail SSL/TLS certificate.

Contents

certificateArn

The Amazon Resource Name (ARN) of the certificate.

Type: String

Pattern: `.*\S.*`

Required: No

certificateDetail

An object that describes a certificate in detail.

Type: Certificate object

Required: No

certificateName

The name of the certificate.

Type: String

Required: No

domainName

The domain name of the certificate.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag 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

CloudFormationStackRecord

Describes a CloudFormation stack record created as a result of the `create cloud formation stack` action.

A CloudFormation stack record provides information about the AWS CloudFormation stack used to create a new Amazon Elastic Compute Cloud instance from an exported Lightsail instance snapshot.

Contents

arn

The Amazon Resource Name (ARN) of the CloudFormation stack record.

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The date when the CloudFormation stack record was created.

Type: Timestamp

Required: No

destinationInfo

A list of objects describing the destination service, which is AWS CloudFormation, and the Amazon Resource Name (ARN) of the AWS CloudFormation stack.

Type: DestinationInfo object

Required: No

location

A list of objects describing the Availability Zone and AWS Region of the CloudFormation stack record.

Type: ResourceLocation object

Required: No

name

The name of the CloudFormation stack record. It starts with `CloudFormationStackRecord` followed by a GUID.

Type: String

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

Required: No

resourceType

The Lightsail resource type (`CloudFormationStackRecord`).

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

sourceInfo

A list of objects describing the source of the CloudFormation stack record.

Type: Array of CloudFormationStackRecordSourceInfo objects

Required: No

state

The current state of the CloudFormation stack record.

Type: String

Valid Values: `Started | Succeeded | Failed`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CloudFormationStackRecordSourceInfo

Describes the source of a CloudFormation stack record (i.e., the export snapshot record).

Contents

arn

The Amazon Resource Name (ARN) of the export snapshot record.

Type: String

Pattern: `.*\S.*`

Required: No

name

The name of the record.

Type: String

Pattern: `.*\S.*`

Required: No

resourceType

The Lightsail resource type (`ExportSnapshotRecord`).

Type: String

Valid Values: `ExportSnapshotRecord`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

ContactMethod

Describes a contact method.

A contact method is a way to send you notifications. For more information, see Notifications in Amazon Lightsail.

Contents

arn

The Amazon Resource Name (ARN) of the contact method.

Type: String

Pattern: `.*\S.*`

Required: No

contactEndpoint

The destination of the contact method, such as an email address or a mobile phone number.

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The timestamp when the contact method was created.

Type: Timestamp

Required: No

location

An object that describes the location of the contact method, such as the AWS Region and Availability Zone.

Type: ResourceLocation object

Required: No

name

The name of the contact method.

Type: String

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

Required: No

protocol

The protocol of the contact method, such as email or SMS (text messaging).

Type: String

Valid Values: `Email | SMS`

Required: No

resourceType

The Lightsail resource type of the contact method.

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

status

The current status of the contact method.

A contact method has the following possible status:

- `PendingVerification` - The contact method has not yet been verified, and the verification has not yet expired.
- `Valid` - The contact method has been verified.

- `InValid` - An attempt was made to verify the contact method, but the verification has expired.

Type: String

Valid Values: `PendingVerification | Valid | Invalid`

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about your Lightsail contact method. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag 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

Container

Describes the settings of a container that will be launched, or that is launched, to an Amazon Lightsail container service.

Contents

command

The launch command for the container.

Type: Array of strings

Required: No

environment

The environment variables of the container.

Type: String to string map

Required: No

image

The name of the image used for the container.

Container images sourced from your Lightsail container service, that are registered and stored on your service, start with a colon (`:`). For example, if your container service name is `container-service-1`, the container image label is `mystaticsite`, and you want to use the third (3) version of the registered container image, then you should specify `:container-service-1.mystaticsite.3`. To use the latest version of a container image, specify `latest` instead of a version number (for example, `:container-service-1.mystaticsite.latest`). Lightsail will automatically use the highest numbered version of the registered container image.

Container images sourced from a public registry like Docker Hub don't start with a colon. For example, `nginx:latest` or `nginx`.

Type: String

Required: No

ports

The open firewall ports of the container.

Type: String to string map

Valid Values: `HTTP` | `HTTPS` | `TCP` | `UDP`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ContainerImage

Describes a container image that is registered to an Amazon Lightsail container service.

Contents

createdAt

The timestamp when the container image was created.

Type: Timestamp

Required: No

digest

The digest of the container image.

Type: String

Required: No

image

The name of the container image.

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

ContainerService

Describes an Amazon Lightsail container service.

Contents

arn

The Amazon Resource Name (ARN) of the container service.

Type: String

Pattern: `.*\S.*`

Required: No

containerServiceName

The name of the container service.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 63.

Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: No

createdAt

The timestamp when the container service was created.

Type: Timestamp

Required: No

currentDeployment

An object that describes the current container deployment of the container service.

Type: ContainerServiceDeployment object

Required: No

isDisabled

A Boolean value indicating whether the container service is disabled.

Type: Boolean

Required: No

location

An object that describes the location of the container service, such as the AWS Region and Availability Zone.

Type: ResourceLocation object

Required: No

nextDeployment

An object that describes the next deployment of the container service.

This value is `null` when there is no deployment in a `pending` state.

Type: ContainerServiceDeployment object

Required: No

power

The power specification of the container service.

The power specifies the amount of RAM, the number of vCPUs, and the base price of the container service.

Type: String

Valid Values: `nano | micro | small | medium | large | xlarge`

Required: No

powerId

The ID of the power of the container service.

Type: String

Required: No

principalArn

The principal ARN of the container service.

The principal ARN can be used to create a trust relationship between your standard AWS account and your Lightsail container service. This allows you to give your service permission to access resources in your standard AWS account.

Type: String

Required: No

privateDomainName

The private domain name of the container service.

The private domain name is accessible only by other resources within the default virtual private cloud (VPC) of your Lightsail account.

Type: String

Required: No

privateRegistryAccess

An object that describes the configuration for the container service to access private container image repositories, such as Amazon Elastic Container Registry (Amazon ECR) private repositories.

For more information, see Configuring access to an Amazon ECR private repository for an Amazon Lightsail container service in the *Amazon Lightsail Developer Guide*.

Type: PrivateRegistryAccess object

Required: No

publicDomainNames

The public domain name of the container service, such as `example.com` and `www.example.com`.

You can specify up to four public domain names for a container service. The domain names that you specify are used when you create a deployment with a container configured as the public endpoint of your container service.

If you don't specify public domain names, then you can use the default domain of the container service.

> **Important**
>
> You must create and validate an SSL/TLS certificate before you can use public domain names with your container service. Use the `CreateCertificate` action to create a certificate for the public domain names you want to use with your container service.

See `CreateContainerService` or `UpdateContainerService` for information about how to specify public domain names for your Lightsail container service.

Type: String to array of strings map

Required: No

resourceType

The Lightsail resource type of the container service.

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

scale

The scale specification of the container service.

The scale specifies the allocated compute nodes of the container service.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 20.

Required: No

state

The current state of the container service.

The following container service states are possible:

- `PENDING` - The container service is being created.
- `READY` - The container service is running but it does not have an active container deployment.
- `DEPLOYING` - The container service is launching a container deployment.
- `RUNNING` - The container service is running and it has an active container deployment.
- `UPDATING` - The container service capacity or its custom domains are being updated.
- `DELETING` - The container service is being deleted.
- `DISABLED` - The container service is disabled, and its active deployment and containers, if any, are shut down.

Type: String

Valid Values: `PENDING | READY | RUNNING | UPDATING | DELETING | DISABLED | DEPLOYING`

Required: No

stateDetail

An object that describes the current state of the container service.

> **Note**
>
> The state detail is populated only when a container service is in a `PENDING`, `DEPLOYING`, or `UPDATING` state.

Type: ContainerServiceStateDetail object

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag objects

Required: No

url

The publicly accessible URL of the container service.

If no public endpoint is specified in the `currentDeployment`, this URL returns a 404 response.

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

ContainerServiceDeployment

Describes a container deployment configuration of an Amazon Lightsail container service.

A deployment specifies the settings, such as the ports and launch command, of containers that are deployed to your container service.

Contents

containers

An object that describes the configuration for the containers of the deployment.

Type: String to Container object map

Key Length Constraints: Minimum length of 1. Maximum length of 53.

Key Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: No

createdAt

The timestamp when the deployment was created.

Type: Timestamp

Required: No

publicEndpoint

An object that describes the endpoint of the deployment.

Type: ContainerServiceEndpoint object

Required: No

state

The state of the deployment.

A deployment can be in one of the following states:

- `ACTIVATING` - The deployment is being created.

- `ACTIVE` - The deployment was successfully created, and it's currently running on the container service. The container service can have only one deployment in an active state at a time.
- `INACTIVE` - The deployment was previously successfully created, but it is not currently running on the container service.
- `FAILED` - The deployment failed. Use the `GetContainerLog` action to view the log events for the containers in the deployment to try to determine the reason for the failure.

Type: String

Valid Values: `ACTIVATING | ACTIVE | INACTIVE | FAILED`

Required: No

version

The version number of the deployment.

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

ContainerServiceDeploymentRequest

Describes a container deployment configuration of an Amazon Lightsail container service.

A deployment specifies the settings, such as the ports and launch command, of containers that are deployed to your container service.

Contents

containers

An object that describes the configuration for the containers of the deployment.

Type: String to Container object map

Key Length Constraints: Minimum length of 1. Maximum length of 53.

Key Pattern: `^[a-z0-9]{1,2}|[a-z0-9][a-z0-9-]+[a-z0-9]$`

Required: No

publicEndpoint

An object that describes the endpoint of the deployment.

Type: EndpointRequest 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

ContainerServiceECRImagePullerRole

Describes the activation status of the role that you can use to grant an Amazon Lightsail container service access to Amazon Elastic Container Registry (Amazon ECR) private repositories.

When activated, Lightsail creates an AWS Identity and Access Management (IAM) role for the specified Lightsail container service. You can use the ARN of the role to create a trust relationship between your Lightsail container service and an Amazon ECR private repository in your AWS account. This allows your container service to pull images from Amazon ECR private repositories. For more information, see Configuring access to an Amazon ECR private repository for an Amazon Lightsail container service in the *Amazon Lightsail Developer Guide*.

Contents

isActive

A Boolean value that indicates whether the role is activated.

Type: Boolean

Required: No

principalArn

The Amazon Resource Name (ARN) of the role, if it is activated.

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

ContainerServiceECRImagePullerRoleRequest

Describes a request to activate or deactivate the role that you can use to grant an Amazon Lightsail container service access to Amazon Elastic Container Registry (Amazon ECR) private repositories.

When activated, Lightsail creates an AWS Identity and Access Management (IAM) role for the specified Lightsail container service. You can use the ARN of the role to create a trust relationship between your Lightsail container service and an Amazon ECR private repository in your AWS account. This allows your container service to pull images from Amazon ECR private repositories. For more information, see Configuring access to an Amazon ECR private repository for an Amazon Lightsail container service in the *Amazon Lightsail Developer Guide*.

Contents

isActive

A Boolean value that indicates whether to activate the role.

Type: Boolean

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ContainerServiceEndpoint

Describes the public endpoint configuration of a deployment of an Amazon Lightsail container service.

Contents

containerName

The name of the container entry of the deployment that the endpoint configuration applies to.

Type: String

Required: No

containerPort

The port of the specified container to which traffic is forwarded to.

Type: Integer

Required: No

healthCheck

An object that describes the health check configuration of the container.

Type: ContainerServiceHealthCheckConfig 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

ContainerServiceHealthCheckConfig

Describes the health check configuration of an Amazon Lightsail container service.

Contents

healthyThreshold

The number of consecutive health checks successes required before moving the container to the `Healthy` state. The default value is 2.

Type: Integer

Required: No

intervalSeconds

The approximate interval, in seconds, between health checks of an individual container. You can specify between 5 and 300 seconds. The default value is 5.

Type: Integer

Required: No

path

The path on the container on which to perform the health check. The default value is `/`.

Type: String

Required: No

successCodes

The HTTP codes to use when checking for a successful response from a container. You can specify values between `200` and `499`. You can specify multiple values (for example, `200,202`) or a range of values (for example, `200-299`).

Type: String

Required: No

timeoutSeconds

The amount of time, in seconds, during which no response means a failed health check. You can specify between 2 and 60 seconds. The default value is 2.

Type: Integer

Required: No

unhealthyThreshold

The number of consecutive health check failures required before moving the container to the `Unhealthy` state. The default value is 2.

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

ContainerServiceLogEvent

Describes the log events of a container of an Amazon Lightsail container service.

Contents

createdAt

The timestamp when the container service log event was created.

Type: Timestamp

Required: No

message

The message of the container service log event.

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

ContainerServicePower

Describes the powers that can be specified for an Amazon Lightsail container service.

The power specifies the amount of RAM, the number of vCPUs, and the base price of the container service.

Contents

cpuCount

The number of vCPUs included in the power.

Type: Float

Required: No

isActive

A Boolean value indicating whether the power is active and can be specified for container services.

Type: Boolean

Required: No

name

The friendly name of the power (`nano`).

Type: String

Required: No

powerId

The ID of the power (`nano-1`).

Type: String

Required: No

price

The monthly price of the power in USD.

Type: Float

Required: No

ramSizeInGb

The amount of RAM (in GB) of the power.

Type: Float

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ContainerServiceRegistryLogin

Describes the sign-in credentials for the container image registry of an Amazon Lightsail account.

Contents

expiresAt

The timestamp of when the container image registry sign-in credentials expire.

The log in credentials expire 12 hours after they are created, at which point you will need to create a new set of log in credentials using the `CreateContainerServiceRegistryLogin` action.

Type: Timestamp

Required: No

password

The container service registry password to use to push container images to the container image registry of a Lightsail account

Type: String

Required: No

registry

The address to use to push container images to the container image registry of a Lightsail account.

Type: String

Required: No

username

The container service registry username to use to push container images to the container image registry of a Lightsail account.

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

ContainerServiceStateDetail

Describes the current state of a container service.

Contents

code

The state code of the container service.

The following state codes are possible:

- The following state codes are possible if your container service is in a `DEPLOYING` or `UPDATING` state:
  - `CREATING_SYSTEM_RESOURCES` - The system resources for your container service are being created.
  - `CREATING_NETWORK_INFRASTRUCTURE` - The network infrastructure for your container service are being created.
  - `PROVISIONING_CERTIFICATE` - The SSL/TLS certificate for your container service is being created.
  - `PROVISIONING_SERVICE` - Your container service is being provisioned.
  - `CREATING_DEPLOYMENT` - Your deployment is being created on your container service.
  - `EVALUATING_HEALTH_CHECK` - The health of your deployment is being evaluated.
  - `ACTIVATING_DEPLOYMENT` - Your deployment is being activated.
- The following state codes are possible if your container service is in a `PENDING` state:
  - `CERTIFICATE_LIMIT_EXCEEDED` - The SSL/TLS certificate required for your container service exceeds the maximum number of certificates allowed for your account.
  - `UNKNOWN_ERROR` - An error was experienced when your container service was being created.

Type: String

Valid Values: `CREATING_SYSTEM_RESOURCES | CREATING_NETWORK_INFRASTRUCTURE | PROVISIONING_CERTIFICATE | PROVISIONING_SERVICE | CREATING_DEPLOYMENT | EVALUATING_HEALTH_CHECK | ACTIVATING_DEPLOYMENT | CERTIFICATE_LIMIT_EXCEEDED | UNKNOWN_ERROR`

Required: No

message

A message that provides more information for the state code.

> **Note**
>
> The state detail is populated only when a container service is in a `PENDING`, `DEPLOYING`, or `UPDATING` state.

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

CookieObject

Describes whether an Amazon Lightsail content delivery network (CDN) distribution forwards cookies to the origin and, if so, which ones.

For the cookies that you specify, your distribution caches separate versions of the specified content based on the cookie values in viewer requests.

Contents

cookiesAllowList

The specific cookies to forward to your distribution's origin.

Type: Array of strings

Required: No

option

Specifies which cookies to forward to the distribution's origin for a cache behavior: `all`, none, or `allow-list` to forward only the cookies specified in the `cookiesAllowList` parameter.

Type: String

Valid Values: `none | allow-list | all`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

CostEstimate

Describes the estimated cost for resources in your Lightsail for Research account.

Contents

resultsByTime

The cost estimate result that's associated with a time period.

Type: Array of EstimateByTime objects

Required: No

usageType

The types of usage that are included in the estimate, such as costs, usage, or data transfer.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DestinationInfo

Describes the destination of a record.

Contents

id

The ID of the resource created at the destination.

Type: String

Pattern: `.*\S.*`

Required: No

service

The destination service of the record.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Disk

Describes a block storage disk.

Contents

addOns

An array of objects representing the add-ons enabled on the disk.

Type: Array of AddOn objects

Required: No

arn

The Amazon Resource Name (ARN) of the disk.

Type: String

Pattern: `.*\S.*`

Required: No

attachedTo

The resources to which the disk is attached.

Type: String

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

Required: No

attachmentState

This member has been deprecated.

(Discontinued) The attachment state of the disk.

> **Note**
>
> In releases prior to November 14, 2017, this parameter returned `attached` for system disks in the API response. It is now discontinued, but still included in the response. Use `isAttached` instead.

Type: String

Required: No

autoMountStatus

The status of automatically mounting a storage disk to a virtual computer.

> **Important**
>
> This parameter only applies to Lightsail for Research resources.

Type: String

Valid Values: `Failed | Pending | Mounted | NotMounted`

Required: No

createdAt

The date when the disk was created.

Type: Timestamp

Required: No

gbInUse

This member has been deprecated.

(Discontinued) The number of GB in use by the disk.

> **Note**
>
> In releases prior to November 14, 2017, this parameter was not included in the API response. It is now discontinued.

Type: Integer

Required: No

iops

The input/output operations per second (IOPS) of the disk.

Type: Integer

Required: No

isAttached

A Boolean value indicating whether the disk is attached.

Type: Boolean

Required: No

isSystemDisk

A Boolean value indicating whether this disk is a system disk (has an operating system loaded on it).

Type: Boolean

Required: No

location

The AWS Region and Availability Zone where the disk is located.

Type: ResourceLocation object

Required: No

name

The unique name of the disk.

Type: String

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

Required: No

path

The disk path.

Type: String

Required: No

resourceType

The Lightsail resource type (`Disk`).

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

sizeInGb

The size of the disk in GB.

Type: Integer

Required: No

state

Describes the status of the disk.

Type: String

Valid Values: `pending | error | available | in-use | unknown`

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about an instance or another resource in Lightsail. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag 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

DiskInfo

Describes a disk.

Contents

isSystemDisk

A Boolean value indicating whether this disk is a system disk (has an operating system loaded on it).

Type: Boolean

Required: No

name

The disk name.

Type: String

Required: No

path

The disk path.

Type: String

Pattern: `.*\S.*`

Required: No

sizeInGb

The size of the disk in GB (32).

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

DiskMap

Describes a block storage disk mapping.

Contents

newDiskName

The new disk name (`my-new-disk`).

Type: String

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

Required: No

originalDiskPath

The original disk path exposed to the instance (for example, `/dev/sdh`).

Type: String

Pattern: `.*\S.*`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

DiskSnapshot

Describes a block storage disk snapshot.

Contents

arn

The Amazon Resource Name (ARN) of the disk snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The date when the disk snapshot was created.

Type: Timestamp

Required: No

fromDiskArn

The Amazon Resource Name (ARN) of the source disk from which the disk snapshot was created.

Type: String

Pattern: `.*\S.*`

Required: No

fromDiskName

The unique name of the source disk from which the disk snapshot was created.

Type: String

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

Required: No

fromInstanceArn

The Amazon Resource Name (ARN) of the source instance from which the disk (system volume) snapshot was created.

Type: String

Pattern: `.*\S.*`

Required: No

fromInstanceName

The unique name of the source instance from which the disk (system volume) snapshot was created.

Type: String

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

Required: No

isFromAutoSnapshot

A Boolean value indicating whether the snapshot was created from an automatic snapshot.

Type: Boolean

Required: No

location

The AWS Region and Availability Zone where the disk snapshot was created.

Type: ResourceLocation object

Required: No

name

The name of the disk snapshot (`my-disk-snapshot`).

Type: String

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

Required: No

progress

The progress of the snapshot.

Type: String

Required: No

resourceType

The Lightsail resource type (`DiskSnapshot`).

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

sizeInGb

The size of the disk in GB.

Type: Integer

Required: No

state

The status of the disk snapshot operation.

Type: String

Valid Values: `pending | completed | error | unknown`

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about an instance or another resource in Lightsail. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag 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

DiskSnapshotInfo

Describes a disk snapshot.

Contents

sizeInGb

The size of the disk in GB (32).

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

DistributionBundle

Describes the specifications of a distribution bundle.

Contents

bundleId

The ID of the bundle.

Type: String

Required: No

isActive

Indicates whether the bundle is active, and can be specified for a new or existing distribution.

Type: Boolean

Required: No

name

The name of the distribution bundle.

Type: String

Required: No

price

The monthly price, in US dollars, of the bundle.

Type: Float

Required: No

transferPerMonthInGb

The monthly network transfer quota of the bundle.

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

DistributionCustomErrorResponse

Describes a custom error response for a Lightsail distribution. A custom error response specifies the page that the distribution returns to the viewer. It also specifies the HTTP status code that the distribution sends when the origin responds with a given HTTP error code.

Contents

errorCachingMinTTL

The minimum time, in seconds, that the distribution caches the custom error response before requesting the object again from the origin. If you don't specify a value, the default is `10` seconds.

Type: Long

Required: No

errorCode

The HTTP error code from the origin that triggers the custom error response (for example, `403` or `404`).

Type: Integer

Required: No

responseCode

The HTTP status code that the distribution returns to the viewer for the custom error response.

Type: String

Required: No

responsePagePath

The path to the custom error page that the distribution returns to the viewer (for example, `/404.html`). The path must begin with a forward slash (`/`) and reference an object that is available from the origin.

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

DnsRecordCreationState

Describes the creation state of the canonical name (CNAME) records that are automatically added by Amazon Lightsail to the DNS of a domain to validate domain ownership for an SSL/TLS certificate.

When you create an SSL/TLS certificate for a Lightsail resource, you must add a set of CNAME records to the DNS of the domains for the certificate to validate that you own the domains. Lightsail can automatically add the CNAME records to the DNS of the domain if the DNS zone for the domain exists within your Lightsail account. If automatic record addition fails, or if you manage the DNS of your domain using a third-party service, then you must manually add the CNAME records to the DNS of your domain. For more information, see Verify an SSL/TLS certificate in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

Contents

code

The status code for the automated DNS record creation.

Following are the possible values:

- `SUCCEEDED` - The validation records were successfully added to the domain.
- `STARTED` - The automatic DNS record creation has started.
- `FAILED` - The validation records failed to be added to the domain.

Type: String

Valid Values: `SUCCEEDED | STARTED | FAILED`

Required: No

message

The message that describes the reason for the status code.

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

Domain

Describes a domain where you are storing recordsets.

Contents

arn

The Amazon Resource Name (ARN) of the domain recordset (`arn:aws:lightsail:global:123456789101:Domain/824cede0-abc7-4f84-8dbc-12345EXAMPLE`).

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The date when the domain recordset was created.

Type: Timestamp

Required: No

domainEntries

An array of key-value pairs containing information about the domain entries.

Type: Array of DomainEntry objects

Required: No

location

The AWS Region and Availability Zones where the domain recordset was created.

Type: ResourceLocation object

Required: No

name

The name of the domain.

Type: String

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

Required: No

registeredDomainDelegationInfo

An object that describes the state of the Route 53 domain delegation to a Lightsail DNS zone.

Type: RegisteredDomainDelegationInfo object

Required: No

resourceType

The resource type.

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about an instance or another resource in Lightsail. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag 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

DomainEntry

Describes a domain recordset entry.

Contents

id

The ID of the domain recordset entry.

Type: String

Pattern: `.*\S.*`

Required: No

isAlias

When `true`, specifies whether the domain entry is an alias used by the Lightsail load balancer, Lightsail container service, Lightsail content delivery network (CDN) distribution, or another AWS resource. You can include an alias (A type) record in your request, which points to the DNS name of a load balancer, container service, CDN distribution, or other AWS resource and routes traffic to that resource.

Type: Boolean

Required: No

name

The name of the domain.

Type: String

Required: No

options

This member has been deprecated.

(Discontinued) The options for the domain entry.

> **Note**
>
> In releases prior to November 29, 2017, this parameter was not included in the API response. It is now discontinued.

Type: String to string map

Required: No

target

The target IP address (`192.0.2.0`), or AWS name server (`ns-111.awsdns-22.com.`).

For Lightsail load balancers, the value looks like `ab1234c56789c6b86aba6fb203d443bc-123456789.us-east-2.elb.amazonaws.com`. For Lightsail distributions, the value looks like `exampled1182ne.cloudfront.net`. For Lightsail container services, the value looks like `container-service-1.example23scljs.us-west-2.cs.amazonlightsail.com`. Be sure to also set `isAlias` to `true` when setting up an A record for a Lightsail load balancer, distribution, or container service.

Type: String

Required: No

type

The type of domain entry, such as address for IPv4 (A), address for IPv6 (AAAA), canonical name (CNAME), mail exchanger (MX), name server (NS), start of authority (SOA), service locator (SRV), or text (TXT).

The following domain entry types can be used:

- `A`
- `AAAA`
- `CNAME`
- `MX`
- `NS`
- `SOA`

- SRV
- TXT

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

DomainValidationRecord

Describes the domain name system (DNS) records that you must add to the DNS of your registered domain to validate ownership for an Amazon Lightsail SSL/TLS certificate.

Contents

dnsRecordCreationState

An object that describes the state of the canonical name (CNAME) records that are automatically added by Lightsail to the DNS of the domain to validate domain ownership.

Type: DnsRecordCreationState object

Required: No

domainName

The domain name of the certificate validation record. For example, `example.com` or `www.example.com`.

Type: String

Required: No

resourceRecord

An object that describes the DNS records to add to your domain's DNS to validate it for the certificate.

Type: ResourceRecord object

Required: No

validationStatus

The validation status of the record.

Type: String

Valid Values: `PENDING_VALIDATION | FAILED | SUCCESS`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

EndpointRequest

Describes the settings of a public endpoint for an Amazon Lightsail container service.

Contents

containerName

The name of the container for the endpoint.

Type: String

Required: Yes

containerPort

The port of the container to which traffic is forwarded to.

Type: Integer

Required: Yes

healthCheck

An object that describes the health check configuration of the container.

Type: ContainerServiceHealthCheckConfig 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

EstimateByTime

An estimate that's associated with a time period.

Contents

currency

The currency of the estimate in USD.

Type: String

Valid Values: `USD`

Required: No

pricingUnit

The unit of measurement that's used for the cost estimate.

Type: String

Valid Values: `GB | Hrs | GB-Mo | Bundles | Queries`

Required: No

timePeriod

The period of time, in days, that an estimate covers. The period has a start date and an end date. The start date must come before the end date.

Type: TimePeriod object

Required: No

unit

The number of pricing units used to calculate the total number of hours. For example, 1 unit equals 1 hour.

Type: Double

Required: No

usageCost

The amount of cost or usage that's measured for the cost estimate.

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

ExportSnapshotRecord

Describes an export snapshot record.

Contents

arn

The Amazon Resource Name (ARN) of the export snapshot record.

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The date when the export snapshot record was created.

Type: Timestamp

Required: No

destinationInfo

A list of objects describing the destination of the export snapshot record.

Type: DestinationInfo object

Required: No

location

The AWS Region and Availability Zone where the export snapshot record is located.

Type: ResourceLocation object

Required: No

name

The export snapshot record name.

Type: String

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

Required: No

resourceType

The Lightsail resource type (`ExportSnapshotRecord`).

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

sourceInfo

A list of objects describing the source of the export snapshot record.

Type: ExportSnapshotRecordSourceInfo object

Required: No

state

The state of the export snapshot record.

Type: String

Valid Values: `Started | Succeeded | Failed`

Required: No

See Also

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

- AWS SDK for C++

- AWS SDK for Java V2
- AWS SDK for Ruby V3

ExportSnapshotRecordSourceInfo

Describes the source of an export snapshot record.

Contents

arn

The Amazon Resource Name (ARN) of the source instance or disk snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The date when the source instance or disk snapshot was created.

Type: Timestamp

Required: No

diskSnapshotInfo

A list of objects describing a disk snapshot.

Type: DiskSnapshotInfo object

Required: No

fromResourceArn

The Amazon Resource Name (ARN) of the snapshot's source instance or disk.

Type: String

Pattern: `.*\S.*`

Required: No

fromResourceName

The name of the snapshot's source instance or disk.

Type: String

Pattern: `.*\S.*`

Required: No

instanceSnapshotInfo

A list of objects describing an instance snapshot.

Type: InstanceSnapshotInfo object

Required: No

name

The name of the source instance or disk snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

resourceType

The Lightsail resource type (`InstanceSnapshot` or `DiskSnapshot`).

Type: String

Valid Values: `InstanceSnapshot | DiskSnapshot`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

HeaderObject

Describes the request headers that a Lightsail distribution bases caching on.

For the headers that you specify, your distribution caches separate versions of the specified content based on the header values in viewer requests. For example, suppose viewer requests for `logo.jpg` contain a custom `product` header that has a value of either `acme` or `apex`, and you configure your distribution to cache your content based on values in the `product` header. Your distribution forwards the `product` header to the origin and caches the response from the origin once for each header value.

Contents

headersAllowList

The specific headers to forward to your distribution's origin.

Type: Array of strings

Valid Values: `Accept | Accept-Charset | Accept-Datetime | Accept-Encoding | Accept-Language | Authorization | CloudFront-Forwarded-Proto | CloudFront-Is-Desktop-Viewer | CloudFront-Is-Mobile-Viewer | CloudFront-Is-SmartTV-Viewer | CloudFront-Is-Tablet-Viewer | CloudFront-Viewer-Country | Host | Origin | Referer`

Required: No

option

The headers that you want your distribution to forward to your origin and base caching on.

You can configure your distribution to do one of the following:

- **`all`** - Forward all headers to your origin.
- **`none`** - Forward only the default headers.
- **`allow-list`** - Forward only the headers you specify using the `headersAllowList` parameter.

Type: String

Valid Values: `none | allow-list | all`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

HostKeyAttributes

Describes the public SSH host keys or the RDP certificate.

Contents

algorithm

The SSH host key algorithm or the RDP certificate format.

For SSH host keys, the algorithm may be `ssh-rsa`, `ecdsa-sha2-nistp256`, `ssh-ed25519`, etc. For RDP certificates, the algorithm is always `x509-cert`.

Type: String

Required: No

fingerprintSHA1

The SHA-1 fingerprint of the returned SSH host key or RDP certificate.

- Example of an SHA-1 SSH fingerprint:

  `SHA1:1CHH6FaAaXjtFOsR/t83vf91SR0`

- Example of an SHA-1 RDP fingerprint:

  `af:34:51:fe:09:f0:e0:da:b8:4e:56:ca:60:c2:10:ff:38:06:db:45`

Type: String

Required: No

fingerprintSHA256

The SHA-256 fingerprint of the returned SSH host key or RDP certificate.

- Example of an SHA-256 SSH fingerprint:

  `SHA256:KTsMnRBh1IhD17HpdfsbzeGA4jOijm5tyXsMjKVbB8o`

- Example of an SHA-256 RDP fingerprint:

  `03:9b:36:9f:4b:de:4e:61:70:fc:7c:c9:78:e7:d2:1a:1c:25:a8:0c:91:f6:7c:e4:d6:a`

Type: String

Required: No

notValidAfter

The returned RDP certificate is not valid after this point in time.

This value is listed only for RDP certificates.

Type: Timestamp

Required: No

notValidBefore

The returned RDP certificate is valid after this point in time.

This value is listed only for RDP certificates.

Type: Timestamp

Required: No

publicKey

The public SSH host key or the RDP certificate.

Type: String

Required: No

witnessedAt

The time that the SSH host key or RDP certificate was recorded by Lightsail.

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

InputOrigin

Describes the origin resource of an Amazon Lightsail content delivery network (CDN) distribution.

An origin can be a Lightsail instance, bucket, container service, or load balancer. A distribution pulls content from an origin, caches it, and serves it to viewers via a worldwide network of edge servers.

Contents

ipAddressType

The IP address type that the distribution uses when connecting to the origin.

The possible values are `ipv4` for IPv4 only, `ipv6` for IPv6 only, and `dualstack` for IPv4 and IPv6.

Type: String

Valid Values: `ipv4 | ipv6 | dualstack`

Required: No

name

The name of the origin resource.

Type: String

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

Required: No

protocolPolicy

The protocol that your Amazon Lightsail distribution uses when establishing a connection with your origin to pull content.

Type: String

Valid Values: `http-only | https-only`

Required: No

regionName

The AWS Region name of the origin resource.

Type: String

Valid Values: `us-east-1 | us-east-2 | us-west-1 | us-west-2 | eu-west-1 | eu-west-2 | eu-west-3 | eu-central-1 | eu-north-1 | eu-south-2 | ca-central-1 | ap-east-1 | ap-south-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | ap-northeast-2 | ap-southeast-3 | ap-southeast-5 | sa-east-1`

Required: No

responseTimeout

The amount of time, in seconds, that the distribution waits for a response after forwarding a request to the origin. The minimum timeout is 1 second, the maximum is 60 seconds, and the default (if you don't specify otherwise) is 30 seconds.

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

Instance

Describes an instance (a virtual private server).

Contents

addOns

An array of objects representing the add-ons enabled on the instance.

Type: Array of AddOn objects

Required: No

arn

The Amazon Resource Name (ARN) of the instance (`arn:aws:lightsail:us-east-2:123456789101:Instance/244ad76f-8aad-4741-809f-12345EXAMPLE`).

Type: String

Pattern: `.*\S.*`

Required: No

blueprintId

The blueprint ID (`amazon_linux_2023`).

Type: String

Pattern: `.*\S.*`

Required: No

blueprintName

The friendly name of the blueprint (`Amazon Linux 2023`).

Type: String

Pattern: `.*\S.*`

Required: No

bundleId

The bundle for the instance (`micro_x_x`).

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The timestamp when the instance was created (`1479734909.17`) in Unix time format.

Type: Timestamp

Required: No

hardware

The size of the vCPU and the amount of RAM for the instance.

Type: InstanceHardware object

Required: No

ipAddressType

The IP address type of the instance.

The possible values are `ipv4` for IPv4 only, `ipv6` for IPv6 only, and `dualstack` for IPv4 and IPv6.

Type: String

Valid Values: `dualstack | ipv4 | ipv6`

Required: No

ipv6Addresses

The IPv6 addresses of the instance.

Type: Array of strings

Pattern: `([A-F0-9]{1,4}:){7}[A-F0-9]{1,4}`

Required: No

isStaticIp

A Boolean value indicating whether this instance has a static IP assigned to it.

Type: Boolean

Required: No

location

The region name and Availability Zone where the instance is located.

Type: ResourceLocation object

Required: No

metadataOptions

The metadata options for the Amazon Lightsail instance.

Type: InstanceMetadataOptions object

Required: No

name

The name the user gave the instance (`Amazon_Linux_2023-1`).

Type: String

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

Required: No

networking

Information about the public ports and monthly data transfer rates for the instance.

Type: InstanceNetworking object

Required: No

privateIpAddress

The private IP address of the instance.

Type: String

Pattern: `([0-9]{1,3}\.){3}[0-9]{1,3}`

Required: No

publicIpAddress

The public IP address of the instance.

Type: String

Pattern: `([0-9]{1,3}\.){3}[0-9]{1,3}`

Required: No

resourceType

The type of resource (usually `Instance`).

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

sshKeyName

The name of the SSH key being used to connect to the instance (`LightsailDefaultKeyPair`).

Type: String

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

Required: No

state

The status code and the state (`running`) for the instance.

Type: InstanceState object

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about an instance or another resource in Lightsail. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag objects

Required: No

username

The user name for connecting to the instance (`ec2-user`).

Type: String

Pattern: `.*\S.*`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InstanceAccessDetails

The parameters for gaining temporary access to one of your Amazon Lightsail instances.

Contents

certKey

For SSH access, the public key to use when accessing your instance For OpenSSH clients (command line SSH), you should save this value to `tempkey-cert.pub`.

Type: String

Required: No

expiresAt

For SSH access, the date on which the temporary keys expire.

Type: Timestamp

Required: No

hostKeys

Describes the public SSH host keys or the RDP certificate.

Type: Array of HostKeyAttributes objects

Required: No

instanceName

The name of this Amazon Lightsail instance.

Type: String

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

Required: No

ipAddress

The public IP address of the Amazon Lightsail instance.

Type: String

Pattern: `([0-9]{1,3}\.){3}[0-9]{1,3}`

Required: No

ipv6Addresses

The IPv6 address of the Amazon Lightsail instance.

Type: Array of strings

Pattern: `([A-F0-9]{1,4}:){7}[A-F0-9]{1,4}`

Required: No

password

For RDP access, the password for your Amazon Lightsail instance. Password will be an empty string if the password for your new instance is not ready yet. When you create an instance, it can take up to 15 minutes for the instance to be ready.

> **Note**
>
> If you create an instance using any key pair other than the default (`LightsailDefaultKeyPair`), `password` will always be an empty string.
> If you change the Administrator password on the instance, Lightsail will continue to return the original password value. When accessing the instance using RDP, you need to manually enter the Administrator password after changing it from the default.

Type: String

Required: No

passwordData

For a Windows Server-based instance, an object with the data you can use to retrieve your password. This is only needed if `password` is empty and the instance is not new (and therefore the password is not ready yet). When you create an instance, it can take up to 15 minutes for the instance to be ready.

Type: PasswordData object

Required: No

privateKey

For SSH access, the temporary private key. For OpenSSH clients (command line SSH), you should save this value to `tempkey`).

Type: String

Required: No

protocol

The protocol for these Amazon Lightsail instance access details.

Type: String

Valid Values: `ssh | rdp`

Required: No

username

The user name to use when logging in to the Amazon Lightsail instance.

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

InstanceEntry

Describes the Amazon Elastic Compute Cloud instance and related resources to be created using the `create cloud formation stack` operation.

Contents

availabilityZone

The Availability Zone for the new Amazon EC2 instance.

Type: String

Required: Yes

instanceType

The instance type (`t2.micro`) to use for the new Amazon EC2 instance.

Type: String

Pattern: `.*\S.*`

Required: Yes

portInfoSource

The port configuration to use for the new Amazon EC2 instance.

The following configuration options are available:

- `DEFAULT` - Use the default firewall settings from the Lightsail instance blueprint. If this is specified, then IPv4 and IPv6 will be configured for the new instance that is created in Amazon EC2.
- `INSTANCE` - Use the configured firewall settings from the source Lightsail instance. If this is specified, the new instance that is created in Amazon EC2 will be configured to match the configuration of the source Lightsail instance. For example, if the source instance is configured for dual-stack (IPv4 and IPv6), then IPv4 and IPv6 will be configured for the new instance that is created in Amazon EC2. If the source instance is configured for IPv4 only, then only IPv4 will be configured for the new instance that is created in Amazon EC2.
- `NONE` - Use the default Amazon EC2 security group. If this is specified, then only IPv4 will be configured for the new instance that is created in Amazon EC2.

- `CLOSED` - All ports closed. If this is specified, then only IPv4 will be configured for the new instance that is created in Amazon EC2.

> **Note**
>
> If you configured `lightsail-connect` as a `cidrListAliases` on your instance, or if you chose to allow the Lightsail browser-based SSH or RDP clients to connect to your instance, that configuration is not carried over to your new Amazon EC2 instance.

Type: String

Valid Values: `DEFAULT | INSTANCE | NONE | CLOSED`

Required: Yes

sourceName

The name of the export snapshot record, which contains the exported Lightsail instance snapshot that will be used as the source of the new Amazon EC2 instance.

Use the `get export snapshot records` operation to get a list of export snapshot records that you can use to create a CloudFormation stack.

Type: String

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

Required: Yes

userData

A launch script you can create that configures a server with additional user data. For example, you might want to run `apt-get -y update`.

> **Note**
>
> Depending on the machine image you choose, the command to get software on your instance varies. Amazon Linux and CentOS use `yum`, Debian and Ubuntu use `apt-get`, and FreeBSD uses `pkg`.

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

InstanceHardware

Describes the hardware for the instance.

Contents

cpuCount

The number of vCPUs the instance has.

Type: Integer

Required: No

disks

The disks attached to the instance.

Type: Array of Disk objects

Required: No

ramSizeInGb

The amount of RAM in GB on the instance (`1.0`).

Type: Float

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InstanceHealthSummary

Describes information about the health of the instance.

Contents

instanceHealth

Describes the overall instance health. Valid values are below.

Type: String

Valid Values: `initial | healthy | unhealthy | unused | draining | unavailable`

Required: No

instanceHealthReason

More information about the instance health. If the `instanceHealth` is `healthy`, then an `instanceHealthReason` value is not provided.

If **`instanceHealth`** is `initial`, the **`instanceHealthReason`** value can be one of the following:

- **`Lb.RegistrationInProgress`** - The target instance is in the process of being registered with the load balancer.
- **`Lb.InitialHealthChecking`** - The Lightsail load balancer is still sending the target instance the minimum number of health checks required to determine its health status.

If **`instanceHealth`** is `unhealthy`, the **`instanceHealthReason`** value can be one of the following:

- **`Instance.ResponseCodeMismatch`** - The health checks did not return an expected HTTP code.
- **`Instance.Timeout`** - The health check requests timed out.
- **`Instance.FailedHealthChecks`** - The health checks failed because the connection to the target instance timed out, the target instance response was malformed, or the target instance failed the health check for an unknown reason.
- **`Lb.InternalError`** - The health checks failed due to an internal error.

If **`instanceHealth`** is `unused`, the **`instanceHealthReason`** value can be one of the following:

- **`Instance.NotRegistered`** - The target instance is not registered with the target group.
- **`Instance.NotInUse`** - The target group is not used by any load balancer, or the target instance is in an Availability Zone that is not enabled for its load balancer.
- **`Instance.IpUnusable`** - The target IP address is reserved for use by a Lightsail load balancer.
- **`Instance.InvalidState`** - The target is in the stopped or terminated state.

If **`instanceHealth`** is `draining`, the **`instanceHealthReason`** value can be one of the following:

- **`Instance.DeregistrationInProgress`** - The target instance is in the process of being deregistered and the deregistration delay period has not expired.

Type: String

Valid Values: `Lb.RegistrationInProgress | Lb.InitialHealthChecking | Lb.InternalError | Instance.ResponseCodeMismatch | Instance.Timeout | Instance.FailedHealthChecks | Instance.NotRegistered | Instance.NotInUse | Instance.DeregistrationInProgress | Instance.InvalidState | Instance.IpUnusable`

Required: No

instanceName

The name of the Lightsail instance for which you are requesting health check data.

Type: String

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

InstanceMetadataOptions

The metadata options for the instance.

Contents

httpEndpoint

Indicates whether the HTTP metadata endpoint on your instances is enabled or disabled.

If the value is `disabled`, you cannot access your instance metadata.

Type: String

Valid Values: `disabled | enabled`

Required: No

httpProtocolIpv6

Indicates whether the IPv6 endpoint for the instance metadata service is enabled or disabled.

Type: String

Valid Values: `disabled | enabled`

Required: No

httpPutResponseHopLimit

The desired HTTP PUT response hop limit for instance metadata requests. A larger number means that the instance metadata requests can travel farther.

Type: Integer

Required: No

httpTokens

The state of token usage for your instance metadata requests.

If the state is `optional`, you can choose whether to retrieve instance metadata with a signed token header on your request. If you retrieve the IAM role credentials without a token, the version 1.0 role credentials are returned. If you retrieve the IAM role credentials by using a valid signed token, the version 2.0 role credentials are returned.

If the state is `required`, you must send a signed token header with all instance metadata retrieval requests. In this state, retrieving the IAM role credential always returns the version 2.0 credentials. The version 1.0 credentials are not available.

> **Important**
>
> Not all instance blueprints in Lightsail support version 2.0 credentials. Use the `MetadataNoToken` instance metric to track the number of calls to the instance metadata service that are using version 1.0 credentials. For more information, see Viewing instance metrics in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

Type: String

Valid Values: `optional | required`

Required: No

state

The state of the metadata option changes.

The following states are possible:

- `pending` - The metadata options are being updated. The instance is not yet ready to process metadata traffic with the new selection.
- `applied` - The metadata options have been successfully applied to the instance.

Type: String

Valid Values: `pending | applied`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

InstanceNetworking

Describes monthly data transfer rates and port information for an instance.

Contents

monthlyTransfer

The amount of data in GB allocated for monthly data transfers.

Type: MonthlyTransfer object

Required: No

ports

An array of key-value pairs containing information about the ports on the instance.

Type: Array of InstancePortInfo 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

InstancePortInfo

Describes information about ports for an Amazon Lightsail instance.

Contents

accessDirection

The access direction (`inbound` or `outbound`).

> **Note**
>
> Lightsail currently supports only `inbound` access direction.

Type: String

Valid Values: `inbound | outbound`

Required: No

accessFrom

The location from which access is allowed. For example, `Anywhere (0.0.0.0/0)`, or `Custom` if a specific IP address or range of IP addresses is allowed.

Type: String

Required: No

accessType

The type of access (`Public` or `Private`).

Type: String

Valid Values: `Public | Private`

Required: No

cidrListAliases

An alias that defines access for a preconfigured range of IP addresses.

The only alias currently supported is `lightsail-connect`, which allows IP addresses of the browser-based RDP/SSH client in the Lightsail console to connect to your instance.

Type: Array of strings

Required: No

cidrs

The IPv4 address, or range of IPv4 addresses (in CIDR notation) that are allowed to connect to an instance through the ports, and the protocol.

> **Note**
>
> The `ipv6Cidrs` parameter lists the IPv6 addresses that are allowed to connect to an instance.

For more information about CIDR block notation, see Classless Inter-Domain Routing on *Wikipedia*.

Type: Array of strings

Required: No

commonName

The common name of the port information.

Type: String

Required: No

fromPort

The first port in a range of open ports on an instance.

Allowed ports:

- TCP and UDP - `0` to `65535`
- ICMP - The ICMP type for IPv4 addresses. For example, specify `8` as the `fromPort` (ICMP type), and `-1` as the `toPort` (ICMP code), to enable ICMP Ping. For more information, see Control Messages on *Wikipedia*.

- ICMPv6 - The ICMP type for IPv6 addresses. For example, specify `128` as the `fromPort` (ICMPv6 type), and `0` as `toPort` (ICMPv6 code). For more information, see Internet Control Message Protocol for IPv6.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 65535.

Required: No

ipv6Cidrs

The IPv6 address, or range of IPv6 addresses (in CIDR notation) that are allowed to connect to an instance through the ports, and the protocol. Only devices with an IPv6 address can connect to an instance through IPv6; otherwise, IPv4 should be used.

> **Note**
>
> The `cidrs` parameter lists the IPv4 addresses that are allowed to connect to an instance.

For more information about CIDR block notation, see Classless Inter-Domain Routing on *Wikipedia*.

Type: Array of strings

Required: No

protocol

The IP protocol name.

The name can be one of the following:

- `tcp` - Transmission Control Protocol (TCP) provides reliable, ordered, and error-checked delivery of streamed data between applications running on hosts communicating by an IP network. If you have an application that doesn't require reliable data stream service, use UDP instead.
- `all` - All transport layer protocol types. For more general information, see Transport layer on *Wikipedia*.

- udp - With User Datagram Protocol (UDP), computer applications can send messages (or datagrams) to other hosts on an Internet Protocol (IP) network. Prior communications are not required to set up transmission channels or data paths. Applications that don't require reliable data stream service can use UDP, which provides a connectionless datagram service that emphasizes reduced latency over reliability. If you do require reliable data stream service, use TCP instead.
- `icmp` - Internet Control Message Protocol (ICMP) is used to send error messages and operational information indicating success or failure when communicating with an instance. For example, an error is indicated when an instance could not be reached. When you specify `icmp` as the `protocol`, you must specify the ICMP type using the `fromPort` parameter, and ICMP code using the `toPort` parameter.
- `icmp6` - Internet Control Message Protocol (ICMP) for IPv6. When you specify `icmp6` as the `protocol`, you must specify the ICMP type using the `fromPort` parameter, and ICMP code using the `toPort` parameter.

Type: String

Valid Values: `tcp | all | udp | icmp | icmpv6`

Required: No

toPort

The last port in a range of open ports on an instance.

Allowed ports:

- TCP and UDP - `0` to `65535`
- ICMP - The ICMP code for IPv4 addresses. For example, specify 8 as the `fromPort` (ICMP type), and `-1` as the `toPort` (ICMP code), to enable ICMP Ping. For more information, see Control Messages on *Wikipedia*.
- ICMPv6 - The ICMP code for IPv6 addresses. For example, specify `128` as the `fromPort` (ICMPv6 type), and `0` as `toPort` (ICMPv6 code). For more information, see Internet Control Message Protocol for IPv6.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 65535.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InstancePortState

Describes open ports on an instance, the IP addresses allowed to connect to the instance through the ports, and the protocol.

Contents

cidrListAliases

An alias that defines access for a preconfigured range of IP addresses.

The only alias currently supported is `lightsail-connect`, which allows IP addresses of the browser-based RDP/SSH client in the Lightsail console to connect to your instance.

Type: Array of strings

Required: No

cidrs

The IPv4 address, or range of IPv4 addresses (in CIDR notation) that are allowed to connect to an instance through the ports, and the protocol.

> **Note**
>
> The `ipv6Cidrs` parameter lists the IPv6 addresses that are allowed to connect to an instance.

For more information about CIDR block notation, see Classless Inter-Domain Routing on *Wikipedia*.

Type: Array of strings

Required: No

fromPort

The first port in a range of open ports on an instance.

Allowed ports:

- TCP and UDP - `0` to `65535`

- ICMP - The ICMP type for IPv4 addresses. For example, specify `8` as the `fromPort` (ICMP type), and `-1` as the `toPort` (ICMP code), to enable ICMP Ping. For more information, see Control Messages on *Wikipedia*.
- ICMPv6 - The ICMP type for IPv6 addresses. For example, specify `128` as the `fromPort` (ICMPv6 type), and `0` as `toPort` (ICMPv6 code). For more information, see Internet Control Message Protocol for IPv6.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 65535.

Required: No

ipv6Cidrs

The IPv6 address, or range of IPv6 addresses (in CIDR notation) that are allowed to connect to an instance through the ports, and the protocol. Only devices with an IPv6 address can connect to an instance through IPv6; otherwise, IPv4 should be used.

> **Note**
>
> The `cidrs` parameter lists the IPv4 addresses that are allowed to connect to an instance.

For more information about CIDR block notation, see Classless Inter-Domain Routing on *Wikipedia*.

Type: Array of strings

Required: No

protocol

The IP protocol name.

The name can be one of the following:

- `tcp` - Transmission Control Protocol (TCP) provides reliable, ordered, and error-checked delivery of streamed data between applications running on hosts communicating by an IP network. If you have an application that doesn't require reliable data stream service, use UDP instead.

- `all` - All transport layer protocol types. For more general information, see Transport layer on *Wikipedia*.
- `udp` - With User Datagram Protocol (UDP), computer applications can send messages (or datagrams) to other hosts on an Internet Protocol (IP) network. Prior communications are not required to set up transmission channels or data paths. Applications that don't require reliable data stream service can use UDP, which provides a connectionless datagram service that emphasizes reduced latency over reliability. If you do require reliable data stream service, use TCP instead.
- `icmp` - Internet Control Message Protocol (ICMP) is used to send error messages and operational information indicating success or failure when communicating with an instance. For example, an error is indicated when an instance could not be reached. When you specify `icmp` as the `protocol`, you must specify the ICMP type using the `fromPort` parameter, and ICMP code using the `toPort` parameter.
- `icmp6` - Internet Control Message Protocol (ICMP) for IPv6. When you specify `icmp6` as the `protocol`, you must specify the ICMP type using the `fromPort` parameter, and ICMP code using the `toPort` parameter.

Type: String

Valid Values: `tcp | all | udp | icmp | icmpv6`

Required: No

state

Specifies whether the instance port is `open` or `closed`.

> **Note**
>
> The port state for Lightsail instances is always `open`.

Type: String

Valid Values: `open | closed`

Required: No

toPort

The last port in a range of open ports on an instance.

Allowed ports:

- TCP and UDP - `0` to `65535`
- ICMP - The ICMP code for IPv4 addresses. For example, specify `8` as the `fromPort` (ICMP type), and `-1` as the `toPort` (ICMP code), to enable ICMP Ping. For more information, see Control Messages on *Wikipedia*.
- ICMPv6 - The ICMP code for IPv6 addresses. For example, specify `128` as the `fromPort` (ICMPv6 type), and `0` as `toPort` (ICMPv6 code). For more information, see Internet Control Message Protocol for IPv6.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 65535.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

InstanceSnapshot

Describes an instance snapshot.

Contents

arn

The Amazon Resource Name (ARN) of the snapshot (`arn:aws:lightsail:us-east-2:123456789101:InstanceSnapshot/d23b5706-3322-4d83-81e5-12345EXAMPLE`).

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The timestamp when the snapshot was created (`1479907467.024`).

Type: Timestamp

Required: No

fromAttachedDisks

An array of disk objects containing information about all block storage disks.

Type: Array of Disk objects

Required: No

fromBlueprintId

The blueprint ID from which you created the snapshot (`amazon_linux_2023`). A blueprint is a virtual private server (or *instance*) image used to create instances quickly.

Type: String

Required: No

fromBundleId

The bundle ID from which you created the snapshot (`micro_x_x`).

Type: String

Required: No

fromInstanceArn

The Amazon Resource Name (ARN) of the instance from which the snapshot was created (`arn:aws:lightsail:us-east-2:123456789101:Instance/64b8404c-ccb1-430b-8daf-12345EXAMPLE`).

Type: String

Pattern: `.*\S.*`

Required: No

fromInstanceName

The instance from which the snapshot was created.

Type: String

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

Required: No

isFromAutoSnapshot

A Boolean value indicating whether the snapshot was created from an automatic snapshot.

Type: Boolean

Required: No

location

The region name and Availability Zone where you created the snapshot.

Type: ResourceLocation object

Required: No

name

The name of the snapshot.

Type: String

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

Required: No

progress

The progress of the snapshot.

> **Note**
>
> This is populated only for disk snapshots, and is `null` for instance snapshots.

Type: String

Required: No

resourceType

The type of resource (usually `InstanceSnapshot`).

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

sizeInGb

The size in GB of the SSD.

Type: Integer

Required: No

state

The state the snapshot is in.

Type: String

Valid Values: `pending | error | available`

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about an instance or another resource in Lightsail. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag 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

InstanceSnapshotInfo

Describes an instance snapshot.

Contents

fromBlueprintId

The blueprint ID from which the source instance (`amazon_linux_2023`).

Type: String

Pattern: `.*\S.*`

Required: No

fromBundleId

The bundle ID from which the source instance was created (`micro_x_x`).

Type: String

Pattern: `.*\S.*`

Required: No

fromDiskInfo

A list of objects describing the disks that were attached to the source instance.

Type: Array of DiskInfo 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

InstanceState

Describes the virtual private server (or *instance*) status.

Contents

code

The status code for the instance.

Type: Integer

Required: No

name

The state of the instance (`running` or `pending`).

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

KeyPair

Describes an SSH key pair.

Contents

arn

The Amazon Resource Name (ARN) of the key pair (`arn:aws:lightsail:us-east-2:123456789101:KeyPair/05859e3d-331d-48ba-9034-12345EXAMPLE`).

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The timestamp when the key pair was created (`1479816991.349`).

Type: Timestamp

Required: No

fingerprint

The RSA fingerprint of the key pair.

Type: String

Required: No

location

The region name and Availability Zone where the key pair was created.

Type: ResourceLocation object

Required: No

name

The friendly name of the SSH key pair.

Type: String

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

Required: No

resourceType

The resource type (usually `KeyPair`).

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about an instance or another resource in Lightsail. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag 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

LightsailDistribution

Describes an Amazon Lightsail content delivery network (CDN) distribution.

Contents

ableToUpdateBundle

Indicates whether the bundle that is currently applied to your distribution, specified using the `distributionName` parameter, can be changed to another bundle.

Use the `UpdateDistributionBundle` action to change your distribution's bundle.

Type: Boolean

Required: No

alternativeDomainNames

The alternate domain names of the distribution.

Type: Array of strings

Required: No

arn

The Amazon Resource Name (ARN) of the distribution.

Type: String

Pattern: `.*\S.*`

Required: No

bundleId

The ID of the bundle currently applied to the distribution.

Type: String

Required: No

cacheBehaviors

An array of objects that describe the per-path cache behavior of the distribution.

Type: Array of CacheBehaviorPerPath objects

Required: No

cacheBehaviorSettings

An object that describes the cache behavior settings of the distribution.

Type: CacheSettings object

Required: No

certificateName

The name of the SSL/TLS certificate attached to the distribution, if any.

Type: String

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

Required: No

createdAt

The timestamp when the distribution was created.

Type: Timestamp

Required: No

customErrorResponses

An array of objects that describe the custom error responses configured for the distribution.

Type: Array of DistributionCustomErrorResponse objects

Required: No

defaultCacheBehavior

An object that describes the default cache behavior of the distribution.

Type: CacheBehavior object

Required: No

defaultRootObject

The object (for example, `index.html`) that the distribution returns when a viewer requests the root URL of the distribution (/) instead of a specific object.

Type: String

Required: No

domainName

The domain name of the distribution.

Type: String

Required: No

ipAddressType

The IP address type of the distribution.

The possible values are `ipv4` for IPv4 only, and `dualstack` for IPv4 and IPv6.

Type: String

Valid Values: `dualstack | ipv4 | ipv6`

Required: No

isEnabled

Indicates whether the distribution is enabled.

Type: Boolean

Required: No

location

An object that describes the location of the distribution, such as the AWS Region and Availability Zone.

> **Note**
>
> Lightsail distributions are global resources that can reference an origin in any AWS Region, and distribute its content globally. However, all distributions are located in the `us-east-1` Region.

Type: ResourceLocation object

Required: No

name

The name of the distribution.

Type: String

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

Required: No

origin

An object that describes the origin resource of the distribution, such as a Lightsail instance, bucket, or load balancer.

The distribution pulls, caches, and serves content from the origin.

Type: Origin object

Required: No

originPublicDNS

The public DNS of the origin.

Type: String

Required: No

resourceType

The Lightsail resource type (`Distribution`).

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

status

The status of the distribution.

Type: String

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about your Lightsail distribution. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag objects

Required: No

viewerMinimumTlsProtocolVersion

The minimum TLS protocol version that the distribution can use to communicate with viewers.

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

LoadBalancer

Describes a load balancer.

Contents

arn

The Amazon Resource Name (ARN) of the load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

configurationOptions

A string to string map of the configuration options for your load balancer. Valid values are listed below.

Type: String to string map

Valid Keys: `HealthCheckPath | SessionStickinessEnabled | SessionStickiness_LB_CookieDurationSeconds | HttpsRedirectionEnabled | TlsPolicyName`

Required: No

createdAt

The date when your load balancer was created.

Type: Timestamp

Required: No

dnsName

The DNS name of your Lightsail load balancer.

Type: String

Pattern: `.*\S.*`

Required: No

healthCheckPath

The path you specified to perform your health checks. If no path is specified, the load balancer tries to make a request to the default (root) page.

Type: String

Pattern: `.*\S.*`

Required: No

httpsRedirectionEnabled

A Boolean value that indicates whether HTTPS redirection is enabled for the load balancer.

Type: Boolean

Required: No

instanceHealthSummary

An array of InstanceHealthSummary objects describing the health of the load balancer.

Type: Array of InstanceHealthSummary objects

Required: No

instancePort

The port where the load balancer will direct traffic to your Lightsail instances. For HTTP traffic, it's port 80. For HTTPS traffic, it's port 443.

Type: Integer

Required: No

ipAddressType

The IP address type of the load balancer.

The possible values are `ipv4` for IPv4 only, `ipv6` for IPv6 only, and `dualstack` for IPv4 and IPv6.

Type: String

Valid Values: `dualstack | ipv4 | ipv6`

Required: No

location

The AWS Region where your load balancer was created (`us-east-2a`). Lightsail automatically creates your load balancer across Availability Zones.

Type: ResourceLocation object

Required: No

name

The name of the load balancer (`my-load-balancer`).

Type: String

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

Required: No

protocol

The protocol you have enabled for your load balancer. Valid values are below.

You can't just have `HTTP_HTTPS`, but you can have just `HTTP`.

Type: String

Valid Values: `HTTP_HTTPS | HTTP`

Required: No

publicPorts

An array of public port settings for your load balancer. For HTTP, use port 80. For HTTPS, use port 443.

Type: Array of integers

Valid Range: Minimum value of -1. Maximum value of 65535.

Required: No

resourceType

The resource type (`LoadBalancer`.

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

state

The status of your load balancer. Valid values are below.

Type: String

Valid Values: `active | provisioning | active_impaired | failed | unknown`

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about your Lightsail load balancer. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag objects

Required: No

tlsCertificateSummaries

An array of LoadBalancerTlsCertificateSummary objects that provide additional information about the SSL/TLS certificates. For example, if `true`, the certificate is attached to the load balancer.

Type: Array of LoadBalancerTlsCertificateSummary objects

Required: No

tlsPolicyName

The name of the TLS security policy for the load balancer.

Type: String

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

LoadBalancerTlsCertificate

Describes a load balancer SSL/TLS certificate.

TLS is just an updated, more secure version of Secure Socket Layer (SSL).

Contents

arn

The Amazon Resource Name (ARN) of the SSL/TLS certificate.

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The time when you created your SSL/TLS certificate.

Type: Timestamp

Required: No

domainName

The domain name for your SSL/TLS certificate.

Type: String

Required: No

domainValidationRecords

An array of LoadBalancerTlsCertificateDomainValidationRecord objects describing the records.

Type: Array of LoadBalancerTlsCertificateDomainValidationRecord objects

Required: No

failureReason

The validation failure reason, if any, of the certificate.

The following failure reasons are possible:

- **`NO_AVAILABLE_CONTACTS`** - This failure applies to email validation, which is not available for Lightsail certificates.
- **`ADDITIONAL_VERIFICATION_REQUIRED`** - Lightsail requires additional information to process this certificate request. This can happen as a fraud-protection measure, such as when the domain ranks within the Alexa top 1000 websites. To provide the required information, use the AWS Support Center to contact AWS Support.

  > **Note**
  >
  > You cannot request a certificate for Amazon-owned domain names such as those ending in amazonaws.com, cloudfront.net, or elasticbeanstalk.com.

- **`DOMAIN_NOT_ALLOWED`** - One or more of the domain names in the certificate request was reported as an unsafe domain by VirusTotal. To correct the problem, search for your domain name on the VirusTotal website. If your domain is reported as suspicious, see Google Help for Hacked Websites to learn what you can do.

  If you believe that the result is a false positive, notify the organization that is reporting the domain. VirusTotal is an aggregate of several antivirus and URL scanners and cannot remove your domain from a block list itself. After you correct the problem and the VirusTotal registry has been updated, request a new certificate.

  If you see this error and your domain is not included in the VirusTotal list, visit the AWS Support Center and create a case.

- **`INVALID_PUBLIC_DOMAIN`** - One or more of the domain names in the certificate request is not valid. Typically, this is because a domain name in the request is not a valid top-level domain. Try to request a certificate again, correcting any spelling errors or typos that were in the failed request, and ensure that all domain names in the request are for valid top-level domains. For example, you cannot request a certificate for `example.invalidpublicdomain` because `invalidpublicdomain` is not a valid top-level domain.
- **`OTHER`** - Typically, this failure occurs when there is a typographical error in one or more of the domain names in the certificate request. Try to request a certificate again, correcting any spelling errors or typos that were in the failed request.

Type: String

Valid Values: `NO_AVAILABLE_CONTACTS | ADDITIONAL_VERIFICATION_REQUIRED | DOMAIN_NOT_ALLOWED | INVALID_PUBLIC_DOMAIN | OTHER`

Required: No

isAttached

When `true`, the SSL/TLS certificate is attached to the Lightsail load balancer.

Type: Boolean

Required: No

issuedAt

The time when the SSL/TLS certificate was issued.

Type: Timestamp

Required: No

issuer

The issuer of the certificate.

Type: String

Pattern: `.*\S.*`

Required: No

keyAlgorithm

The algorithm used to generate the key pair (the public and private key).

Type: String

Pattern: `.*\S.*`

Required: No

loadBalancerName

The load balancer name where your SSL/TLS certificate is attached.

Type: String

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

Required: No

location

The AWS Region and Availability Zone where you created your certificate.

Type: ResourceLocation object

Required: No

name

The name of the SSL/TLS certificate (`my-certificate`).

Type: String

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

Required: No

notAfter

The timestamp when the SSL/TLS certificate expires.

Type: Timestamp

Required: No

notBefore

The timestamp when the SSL/TLS certificate is first valid.

Type: Timestamp

Required: No

renewalSummary

An object that describes the status of the certificate renewal managed by Lightsail.

Type: LoadBalancerTlsCertificateRenewalSummary object

Required: No

resourceType

The resource type (`LoadBalancerTlsCertificate`).

- **`Instance`** - A Lightsail instance (a virtual private server)
- **`StaticIp`** - A static IP address
- **`KeyPair`** - The key pair used to connect to a Lightsail instance
- **`InstanceSnapshot`** - A Lightsail instance snapshot
- **`Domain`** - A DNS zone
- **`PeeredVpc`** - A peered VPC
- **`LoadBalancer`** - A Lightsail load balancer
- **`LoadBalancerTlsCertificate`** - An SSL/TLS certificate associated with a Lightsail load balancer
- **`Disk`** - A Lightsail block storage disk
- **`DiskSnapshot`** - A block storage disk snapshot

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

revocationReason

The reason the certificate was revoked. This value is present only when the certificate status is `REVOKED`.

Type: String

Valid Values: `UNSPECIFIED | KEY_COMPROMISE | CA_COMPROMISE | AFFILIATION_CHANGED | SUPERCEDED | CESSATION_OF_OPERATION | CERTIFICATE_HOLD | REMOVE_FROM_CRL | PRIVILEGE_WITHDRAWN | A_A_COMPROMISE`

Required: No

revokedAt

The timestamp when the certificate was revoked. This value is present only when the certificate status is `REVOKED`.

Type: Timestamp

Required: No

serial

The serial number of the certificate.

Type: String

Pattern: `.*\S.*`

Required: No

signatureAlgorithm

The algorithm that was used to sign the certificate.

Type: String

Pattern: `.*\S.*`

Required: No

status

The validation status of the SSL/TLS certificate. Valid values are below.

Type: String

Valid Values: `PENDING_VALIDATION | ISSUED | INACTIVE | EXPIRED | VALIDATION_TIMED_OUT | REVOKED | FAILED | UNKNOWN`

Required: No

subject

The name of the entity that is associated with the public key contained in the certificate.

Type: String

Pattern: `.*\S.*`

Required: No

subjectAlternativeNames

An array of strings that specify the alternate domains (`example2.com`) and subdomains (`blog.example.com`) for the certificate.

Type: Array of strings

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about your Lightsail load balancer or SSL/TLS certificate. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag 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

LoadBalancerTlsCertificateDnsRecordCreationState

An object that describes the state of the canonical name (CNAME) records that are automatically added by Lightsail to the DNS of the domain to validate domain ownership.

Contents

code

The status code for the automated DNS record creation.

Following are the possible values:

- `SUCCEEDED` - The validation records were successfully added.
- `STARTED` - The automatic DNS record creation has started.
- `FAILED` - The validation record addition failed.

Type: String

Valid Values: `SUCCEEDED | STARTED | FAILED`

Required: No

message

The message that describes the reason for the status code.

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

LoadBalancerTlsCertificateDomainValidationOption

Contains information about the domain names on an SSL/TLS certificate that you will use to validate domain ownership.

Contents

domainName

The fully qualified domain name in the certificate request.

Type: String

Required: No

validationStatus

The status of the domain validation. Valid values are listed below.

Type: String

Valid Values: `PENDING_VALIDATION | FAILED | SUCCESS`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LoadBalancerTlsCertificateDomainValidationRecord

Describes the validation record of each domain name in the SSL/TLS certificate.

Contents

dnsRecordCreationState

An object that describes the state of the canonical name (CNAME) records that are automatically added by Lightsail to the DNS of a domain to validate domain ownership.

Type: LoadBalancerTlsCertificateDnsRecordCreationState object

Required: No

domainName

The domain name against which your SSL/TLS certificate was validated.

Type: String

Required: No

name

A fully qualified domain name in the certificate. For example, `example.com`.

Type: String

Pattern: `.*\S.*`

Required: No

type

The type of validation record. For example, `CNAME` for domain validation.

Type: String

Pattern: `.*\S.*`

Required: No

validationStatus

The validation status. Valid values are listed below.

Type: String

Valid Values: `PENDING_VALIDATION | FAILED | SUCCESS`

Required: No

value

The value for that type.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LoadBalancerTlsCertificateRenewalSummary

Contains information about the status of Lightsail's managed renewal for the certificate.

The renewal status of the certificate.

The following renewal status are possible:

- **`PendingAutoRenewal`** - Lightsail is attempting to automatically validate the domain names in the certificate. No further action is required.
- **`PendingValidation`** - Lightsail couldn't automatically validate one or more domain names in the certificate. You must take action to validate these domain names or the certificate won't be renewed. If you used DNS validation, check to make sure your certificate's domain validation records exist in your domain's DNS, and that your certificate remains in use.
- **`Success`** - All domain names in the certificate are validated, and Lightsail renewed the certificate. No further action is required.
- **`Failed`** - One or more domain names were not validated before the certificate expired, and Lightsail did not renew the certificate. You can request a new certificate using the `CreateCertificate` action.

Contents

domainValidationOptions

Contains information about the validation of each domain name in the certificate, as it pertains to Lightsail's managed renewal. This is different from the initial validation that occurs as a result of the RequestCertificate request.

Type: Array of LoadBalancerTlsCertificateDomainValidationOption objects

Required: No

renewalStatus

The renewal status of the certificate.

The following renewal status are possible:

- **`PendingAutoRenewal`** - Lightsail is attempting to automatically validate the domain names of the certificate. No further action is required.

- **`PendingValidation`** - Lightsail couldn't automatically validate one or more domain names of the certificate. You must take action to validate these domain names or the certificate won't be renewed. Check to make sure your certificate's domain validation records exist in your domain's DNS, and that your certificate remains in use.
- **`Success`** - All domain names in the certificate are validated, and Lightsail renewed the certificate. No further action is required.
- **`Failed`** - One or more domain names were not validated before the certificate expired, and Lightsail did not renew the certificate. You can request a new certificate using the `CreateCertificate` action.

Type: String

Valid Values: `PENDING_AUTO_RENEWAL | PENDING_VALIDATION | SUCCESS | FAILED`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LoadBalancerTlsCertificateSummary

Provides a summary of SSL/TLS certificate metadata.

Contents

isAttached

When `true`, the SSL/TLS certificate is attached to the Lightsail load balancer.

Type: Boolean

Required: No

name

The name of the SSL/TLS certificate.

Type: String

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

LoadBalancerTlsPolicy

Describes the TLS security policies that are available for Lightsail load balancers.

For more information about load balancer TLS security policies, see Configuring TLS security policies on your Amazon Lightsail load balancers in the *Amazon Lightsail Developer Guide*.

Contents

ciphers

The ciphers used by the TLS security policy.

The ciphers are listed in order of preference.

Type: Array of strings

Required: No

description

The description of the TLS security policy.

Type: String

Required: No

isDefault

A Boolean value that indicates whether the TLS security policy is the default.

Type: Boolean

Required: No

name

The name of the TLS security policy.

Type: String

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

Required: No

protocols

The protocols used in a given TLS security policy.

Type: Array of strings

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

LogEvent

Describes a database log event.

Contents

createdAt

The timestamp when the database log event was created.

Type: Timestamp

Required: No

message

The message of the database log event.

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

MetricDatapoint

Describes the metric data point.

Contents

average

The average.

Type: Double

Required: No

maximum

The maximum.

Type: Double

Required: No

minimum

The minimum.

Type: Double

Required: No

sampleCount

The sample count.

Type: Double

Required: No

sum

The sum.

Type: Double

Required: No

timestamp

The timestamp (`1479816991.349`).

Type: Timestamp

Required: No

unit

The unit.

Type: String

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MonitoredResourceInfo

Describes resource being monitored by an alarm.

An alarm is a way to monitor your Amazon Lightsail resource metrics. For more information, see Alarms in Amazon Lightsail.

Contents

arn

The Amazon Resource Name (ARN) of the resource being monitored.

Type: String

Pattern: `^arn:(aws[^:]*):([a-zA-Z0-9-]+):([a-z0-9-]+):([0-9]+):([a-zA-Z]+)/([a-zA-Z0-9-]+)$`

Required: No

name

The name of the Lightsail resource being monitored.

Type: String

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

Required: No

resourceType

The Lightsail resource type of the resource being monitored.

Instances, load balancers, and relational databases are the only Lightsail resources that can currently be monitored by alarms.

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord |`

`CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

MonthlyTransfer

Describes the monthly data transfer in and out of your virtual private server (or *instance*).

Contents

gbPerMonthAllocated

The amount allocated per month (in GB).

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

NameServersUpdateState

Describes the state of the name server records update made by Amazon Lightsail to an Amazon Route 53 registered domain.

For more information, see DNS in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

Contents

code

The status code for the name servers update.

Following are the possible values:

- `SUCCEEDED` - The name server records were successfully updated.
- `PENDING` - The name server record update is in progress.
- `FAILED` - The name server record update failed.
- `STARTED` - The automatic name server record update started.

Type: String

Valid Values: `SUCCEEDED | PENDING | FAILED | STARTED`

Required: No

message

The message that describes the reason for the status code.

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

Operation

Describes the API operation.

Contents

createdAt

The timestamp when the operation was initialized (`1479816991.349`).

Type: Timestamp

Required: No

errorCode

The error code.

Type: String

Required: No

errorDetails

The error details.

Type: String

Required: No

id

The ID of the operation.

Type: String

Pattern: `.*\S.*`

Required: No

isTerminal

A Boolean value indicating whether the operation is terminal.

Type: Boolean

Required: No

location

The AWS Region and Availability Zone.

Type: ResourceLocation object

Required: No

operationDetails

Details about the operation (`Debian-1GB-Ohio-1`).

Type: String

Required: No

operationType

The type of operation.

Type: String

Valid Values: `DeleteKnownHostKeys | DeleteInstance | CreateInstance | StopInstance | StartInstance | RebootInstance | OpenInstancePublicPorts | PutInstancePublicPorts | CloseInstancePublicPorts | AllocateStaticIp | ReleaseStaticIp | AttachStaticIp | DetachStaticIp | UpdateDomainEntry | DeleteDomainEntry | CreateDomain | DeleteDomain | CreateInstanceSnapshot | DeleteInstanceSnapshot | CreateInstancesFromSnapshot | CreateLoadBalancer | DeleteLoadBalancer | AttachInstancesToLoadBalancer | DetachInstancesFromLoadBalancer | UpdateLoadBalancerAttribute | CreateLoadBalancerTlsCertificate | DeleteLoadBalancerTlsCertificate | AttachLoadBalancerTlsCertificate | CreateDisk | DeleteDisk | AttachDisk | DetachDisk | CreateDiskSnapshot | DeleteDiskSnapshot | CreateDiskFromSnapshot | CreateRelationalDatabase | UpdateRelationalDatabase | DeleteRelationalDatabase | CreateRelationalDatabaseFromSnapshot | CreateRelationalDatabaseSnapshot | DeleteRelationalDatabaseSnapshot | UpdateRelationalDatabaseParameters | StartRelationalDatabase | RebootRelationalDatabase | StopRelationalDatabase | EnableAddOn | DisableAddOn | PutAlarm | GetAlarms | DeleteAlarm | TestAlarm | CreateContactMethod |`

`GetContactMethods | SendContactMethodVerification | DeleteContactMethod | CreateDistribution | UpdateDistribution | DeleteDistribution | ResetDistributionCache | AttachCertificateToDistribution | DetachCertificateFromDistribution | UpdateDistributionBundle | SetIpAddressType | CreateCertificate | DeleteCertificate | CreateContainerService | UpdateContainerService | DeleteContainerService | CreateContainerServiceDeployment | CreateContainerServiceRegistryLogin | RegisterContainerImage | DeleteContainerImage | CreateBucket | DeleteBucket | CreateBucketAccessKey | DeleteBucketAccessKey | UpdateBucketBundle | UpdateBucket | SetResourceAccessForBucket | UpdateInstanceMetadataOptions | StartGUISession | StopGUISession | SetupInstanceHttps | GetProfile`

Required: No

resourceName

The resource name.

Type: String

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

Required: No

resourceType

The resource type.

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

status

The status of the operation.

Type: String

Valid Values: `NotStarted | Started | Failed | Completed | Succeeded`

Required: No

statusChangedAt

The timestamp when the status was changed (`1479816991.349`).

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

Origin

Describes the origin resource of an Amazon Lightsail content delivery network (CDN) distribution.

An origin can be a Lightsail instance, bucket, or load balancer. A distribution pulls content from an origin, caches it, and serves it to viewers via a worldwide network of edge servers.

Contents

ipAddressType

The IP address type that the distribution uses when connecting to the origin.

The possible values are `ipv4` for IPv4 only, `ipv6` for IPv6 only, and `dualstack` for IPv4 and IPv6.

Type: String

Valid Values: `ipv4 | ipv6 | dualstack`

Required: No

isPrivateOriginAccessEnabled

Specifies whether private origin access is enabled for the distribution's origin. With private origin access, the distribution can serve objects that aren't publicly accessible from a Lightsail bucket.

This applies when you set the bucket's `getObject` access rule to `private`. It also applies when you set `getObject` to `public` but set individual objects to private.

Type: Boolean

Required: No

name

The name of the origin resource.

Type: String

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

Required: No

protocolPolicy

The protocol that your Amazon Lightsail distribution uses when establishing a connection with your origin to pull content.

Type: String

Valid Values: `http-only | https-only`

Required: No

regionName

The AWS Region name of the origin resource.

Type: String

Valid Values: `us-east-1 | us-east-2 | us-west-1 | us-west-2 | eu-west-1 | eu-west-2 | eu-west-3 | eu-central-1 | eu-north-1 | eu-south-2 | ca-central-1 | ap-east-1 | ap-south-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | ap-northeast-2 | ap-southeast-3 | ap-southeast-5 | sa-east-1`

Required: No

resourceType

The resource type of the origin resource (*Instance*).

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

responseTimeout

The amount of time, in seconds, that the distribution waits for a response after forwarding a request to the origin. The minimum timeout is 1 second, the maximum is 60 seconds, and the default (if you don't specify otherwise) is 30 seconds.

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

PartnerInfo

An object that contains information about the Lightsail partner program membership of an Amazon Lightsail account.

Contents

enrolledAt

The timestamp when the account was enrolled in the Lightsail partner program.

Type: Timestamp

Required: Yes

status

The status of the partner membership.

The following statuses are possible:

- `Active` – The membership is active, and the benefits of the current tier are available to the account.
- `Suspended` – The membership is suspended, and the benefits of the tier are not available to the account.

Type: String

Valid Values: `Active | Suspended`

Required: Yes

tierName

The tier of the partner membership.

Type: String

Valid Values: `Essential | Growth | Accelerate | Premier`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PasswordData

The password data for the Windows Server-based instance, including the ciphertext and the key pair name.

Contents

ciphertext

The encrypted password. Ciphertext will be an empty string if access to your new instance is not ready yet. When you create an instance, it can take up to 15 minutes for the instance to be ready.

> **Note**
>
> If you use the default key pair (`LightsailDefaultKeyPair`), the decrypted password will be available in the password field.
> If you are using a custom key pair, you need to use your own means of decryption.
> If you change the Administrator password on the instance, Lightsail will continue to return the original ciphertext value. When accessing the instance using RDP, you need to manually enter the Administrator password after changing it from the default.

Type: String

Required: No

keyPairName

The name of the key pair that you used when creating your instance. If no key pair name was specified when creating the instance, Lightsail uses the default key pair (`LightsailDefaultKeyPair`).

If you are using a custom key pair, you need to use your own means of decrypting your password using the `ciphertext`. Lightsail creates the ciphertext by encrypting your password with the public key part of this key pair.

Type: String

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

PendingMaintenanceAction

Describes a pending database maintenance action.

Contents

action

The type of pending database maintenance action.

Type: String

Pattern: `.*\S.*`

Required: No

currentApplyDate

The effective date of the pending database maintenance action.

Type: Timestamp

Required: No

description

Additional detail about the pending database maintenance action.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PendingModifiedRelationalDatabaseValues

Describes a pending database value modification.

Contents

backupRetentionEnabled

A Boolean value indicating whether automated backup retention is enabled.

Type: Boolean

Required: No

engineVersion

The database engine version.

Type: String

Required: No

masterUserPassword

The password for the master user of the database.

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

PortInfo

Describes ports to open on an instance, the IP addresses allowed to connect to the instance through the ports, and the protocol.

Contents

cidrListAliases

An alias that defines access for a preconfigured range of IP addresses.

The only alias currently supported is `lightsail-connect`, which allows IP addresses of the browser-based RDP/SSH client in the Lightsail console to connect to your instance.

Type: Array of strings

Required: No

cidrs

The IPv4 address, or range of IPv4 addresses (in CIDR notation) that are allowed to connect to an instance through the ports, and the protocol.

> **Note**
>
> The `ipv6Cidrs` parameter lists the IPv6 addresses that are allowed to connect to an instance.

Examples:

- To allow the IP address `192.0.2.44`, specify `192.0.2.44` or `192.0.2.44/32`.
- To allow the IP addresses `192.0.2.0` to `192.0.2.255`, specify `192.0.2.0/24`.

For more information about CIDR block notation, see Classless Inter-Domain Routing on *Wikipedia*.

Type: Array of strings

Required: No

fromPort

The first port in a range of open ports on an instance.

Allowed ports:

- TCP and UDP - `0` to `65535`
- ICMP - The ICMP type for IPv4 addresses. For example, specify 8 as the `fromPort` (ICMP type), and `-1` as the `toPort` (ICMP code), to enable ICMP Ping. For more information, see Control Messages on *Wikipedia*.
- ICMPv6 - The ICMP type for IPv6 addresses. For example, specify `128` as the `fromPort` (ICMPv6 type), and `0` as `toPort` (ICMPv6 code). For more information, see Internet Control Message Protocol for IPv6.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 65535.

Required: No

ipv6Cidrs

The IPv6 address, or range of IPv6 addresses (in CIDR notation) that are allowed to connect to an instance through the ports, and the protocol. Only devices with an IPv6 address can connect to an instance through IPv6; otherwise, IPv4 should be used.

> **Note**
>
> The `cidrs` parameter lists the IPv4 addresses that are allowed to connect to an instance.

For more information about CIDR block notation, see Classless Inter-Domain Routing on *Wikipedia*.

Type: Array of strings

Required: No

protocol

The IP protocol name.

The name can be one of the following:

- `tcp` - Transmission Control Protocol (TCP) provides reliable, ordered, and error-checked delivery of streamed data between applications running on hosts communicating by an IP network. If you have an application that doesn't require reliable data stream service, use UDP instead.
- `all` - All transport layer protocol types. For more general information, see Transport layer on *Wikipedia*.
- udp - With User Datagram Protocol (UDP), computer applications can send messages (or datagrams) to other hosts on an Internet Protocol (IP) network. Prior communications are not required to set up transmission channels or data paths. Applications that don't require reliable data stream service can use UDP, which provides a connectionless datagram service that emphasizes reduced latency over reliability. If you do require reliable data stream service, use TCP instead.
- `icmp` - Internet Control Message Protocol (ICMP) is used to send error messages and operational information indicating success or failure when communicating with an instance. For example, an error is indicated when an instance could not be reached. When you specify `icmp` as the `protocol`, you must specify the ICMP type using the `fromPort` parameter, and ICMP code using the `toPort` parameter.
- `icmp6` - Internet Control Message Protocol (ICMP) for IPv6. When you specify `icmp6` as the `protocol`, you must specify the ICMP type using the `fromPort` parameter, and ICMP code using the `toPort` parameter.

Type: String

Valid Values: `tcp | all | udp | icmp | icmpv6`

Required: No

toPort

The last port in a range of open ports on an instance.

Allowed ports:

- TCP and UDP - `0` to `65535`
- ICMP - The ICMP code for IPv4 addresses. For example, specify 8 as the `fromPort` (ICMP type), and `-1` as the `toPort` (ICMP code), to enable ICMP Ping. For more information, see Control Messages on *Wikipedia*.

- ICMPv6 - The ICMP code for IPv6 addresses. For example, specify `128` as the `fromPort` (ICMPv6 type), and `0` as `toPort` (ICMPv6 code). For more information, see Internet Control Message Protocol for IPv6.

Type: Integer

Valid Range: Minimum value of -1. Maximum value of 65535.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

PrivateRegistryAccess

Describes the configuration for an Amazon Lightsail container service to access private container image repositories, such as Amazon Elastic Container Registry (Amazon ECR) private repositories.

For more information, see Configuring access to an Amazon ECR private repository for an Amazon Lightsail container service in the *Amazon Lightsail Developer Guide*.

Contents

ecrImagePullerRole

An object that describes the activation status of the role that you can use to grant a Lightsail container service access to Amazon ECR private repositories. If the role is activated, the Amazon Resource Name (ARN) of the role is also listed.

Type: ContainerServiceECRImagePullerRole 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

PrivateRegistryAccessRequest

Describes a request to configure an Amazon Lightsail container service to access private container image repositories, such as Amazon Elastic Container Registry (Amazon ECR) private repositories.

For more information, see Configuring access to an Amazon ECR private repository for an Amazon Lightsail container service in the *Amazon Lightsail Developer Guide*.

Contents

ecrImagePullerRole

An object to describe a request to activate or deactivate the role that you can use to grant an Amazon Lightsail container service access to Amazon Elastic Container Registry (Amazon ECR) private repositories.

Type: ContainerServiceECRImagePullerRoleRequest 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

QueryStringObject

Describes the query string parameters that an Amazon Lightsail content delivery network (CDN) distribution to bases caching on.

For the query strings that you specify, your distribution caches separate versions of the specified content based on the query string values in viewer requests.

Contents

option

Indicates whether the distribution forwards and caches based on query strings.

Type: Boolean

Required: No

queryStringsAllowList

The specific query strings that the distribution forwards to the origin.

Your distribution will cache content based on the specified query strings.

If the `option` parameter is true, then your distribution forwards all query strings, regardless of what you specify using the `queryStringsAllowList` parameter.

Type: Array of strings

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

R53HostedZoneDeletionState

Describes the deletion state of an Amazon Route 53 hosted zone for a domain that is being automatically delegated to an Amazon Lightsail DNS zone.

Contents

code

The status code for the deletion state.

Following are the possible values:

- `SUCCEEDED` - The hosted zone was successfully deleted.
- `PENDING` - The hosted zone deletion is in progress.
- `FAILED` - The hosted zone deletion failed.
- `STARTED` - The hosted zone deletion started.

Type: String

Valid Values: `SUCCEEDED | PENDING | FAILED | STARTED`

Required: No

message

The message that describes the reason for the status code.

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

Region

Describes the AWS Region.

Contents

availabilityZones

The Availability Zones. Follows the format `us-east-2a` (case-sensitive).

Type: Array of AvailabilityZone objects

Required: No

continentCode

The continent code (`NA`, meaning North America).

Type: String

Required: No

description

The description of the AWS Region (`This region is recommended to serve users in the eastern United States and eastern Canada`).

Type: String

Required: No

displayName

The display name (`Ohio`).

Type: String

Required: No

name

The region name (`us-east-2`).

Type: String

Valid Values: `us-east-1 | us-east-2 | us-west-1 | us-west-2 | eu-west-1 | eu-west-2 | eu-west-3 | eu-central-1 | eu-north-1 | eu-south-2 | ca-central-1 | ap-east-1 | ap-south-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | ap-northeast-2 | ap-southeast-3 | ap-southeast-5 | sa-east-1`

Required: No

relationalDatabaseAvailabilityZones

The Availability Zones for databases. Follows the format `us-east-2a` (case-sensitive).

Type: Array of AvailabilityZone 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

RegisteredDomainDelegationInfo

Describes the delegation state of an Amazon Route 53 registered domain to Amazon Lightsail.

When you delegate an Amazon Route 53 registered domain to Lightsail, you can manage the DNS of the domain using a Lightsail DNS zone. You no longer use the Route 53 hosted zone to manage the DNS of the domain. To delegate the domain, Lightsail automatically updates the domain's name servers in Route 53 to the name servers of the Lightsail DNS zone. Then, Lightsail automatically deletes the Route 53 hosted zone for the domain.

All of the following conditions must be true for automatic domain delegation to be successful:

- The registered domain must be in the same AWS account as the Lightsail account making the request.
- The user or entity making the request must have permission to manage domains in Route 53.
- The Route 53 hosted zone for the domain must be empty. It cannot contain DNS records other than start of authority (SOA) and name server records.

If automatic domain delegation fails, or if you manage the DNS of your domain using a service other than Route 53, then you must manually add the Lightsail DNS zone name servers to your domain in order to delegate management of its DNS to Lightsail. For more information, see Creating a DNS zone to manage your domain's records in Amazon Lightsail in the *Amazon Lightsail Developer Guide*.

Contents

nameServersUpdateState

An object that describes the state of the name server records that are automatically added to the Route 53 domain by Lightsail.

Type: NameServersUpdateState object

Required: No

r53HostedZoneDeletionState

Describes the deletion state of an Amazon Route 53 hosted zone for a domain that is being automatically delegated to an Amazon Lightsail DNS zone.

Type: R53HostedZoneDeletionState 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

RelationalDatabase

Describes a database.

Contents

arn

The Amazon Resource Name (ARN) of the database.

Type: String

Pattern: `.*\S.*`

Required: No

backupRetentionEnabled

A Boolean value indicating whether automated backup retention is enabled for the database.

Type: Boolean

Required: No

caCertificateIdentifier

The certificate associated with the database.

Type: String

Required: No

createdAt

The timestamp when the database was created. Formatted in Unix time.

Type: Timestamp

Required: No

engine

The database software (for example, `MySQL`).

Type: String

Pattern: `.*\S.*`

Required: No

engineVersion

The database engine version (for example, `5.7.23`).

Type: String

Pattern: `.*\S.*`

Required: No

hardware

Describes the hardware of the database.

Type: RelationalDatabaseHardware object

Required: No

latestRestorableTime

The latest point in time to which the database can be restored. Formatted in Unix time.

Type: Timestamp

Required: No

location

The Region name and Availability Zone where the database is located.

Type: ResourceLocation object

Required: No

masterDatabaseName

The name of the master database created when the Lightsail database resource is created.

Type: String

Required: No

masterEndpoint

The master endpoint for the database.

Type: RelationalDatabaseEndpoint object

Required: No

masterUsername

The master user name of the database.

Type: String

Pattern: `.*\S.*`

Required: No

name

The unique name of the database resource in Lightsail.

Type: String

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

Required: No

parameterApplyStatus

The status of parameter updates for the database.

Type: String

Pattern: `.*\S.*`

Required: No

pendingMaintenanceActions

Describes the pending maintenance actions for the database.

Type: Array of PendingMaintenanceAction objects

Required: No

pendingModifiedValues

Describes pending database value modifications.

Type: PendingModifiedRelationalDatabaseValues object

Required: No

preferredBackupWindow

The daily time range during which automated backups are created for the database (for example, `16:00-16:30`).

Type: String

Pattern: `.*\S.*`

Required: No

preferredMaintenanceWindow

The weekly time range during which system maintenance can occur on the database.

In the format `ddd:hh24:mi-ddd:hh24:mi`. For example, `Tue:17:00-Tue:17:30`.

Type: String

Pattern: `.*\S.*`

Required: No

publiclyAccessible

A Boolean value indicating whether the database is publicly accessible.

Type: Boolean

Required: No

relationalDatabaseBlueprintId

The blueprint ID for the database. A blueprint describes the major engine version of a database.

Type: String

Pattern: `.*\S.*`

Required: No

relationalDatabaseBundleId

The bundle ID for the database. A bundle describes the performance specifications for your database.

Type: String

Pattern: `.*\S.*`

Required: No

resourceType

The Lightsail resource type for the database (for example, `RelationalDatabase`).

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

secondaryAvailabilityZone

Describes the secondary Availability Zone of a high availability database.

The secondary database is used for failover support of a high availability database.

Type: String

Required: No

state

Describes the current state of the database.

Type: String

Pattern: `.*\S.*`

Required: No

supportCode

The support code for the database. Include this code in your email to support when you have questions about a database in Lightsail. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag 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

RelationalDatabaseBlueprint

Describes a database image, or blueprint. A blueprint describes the major engine version of a database.

Contents

blueprintId

The ID for the database blueprint.

Type: String

Required: No

engine

The database software of the database blueprint (for example, `MySQL`).

Type: String

Valid Values: `mysql`

Required: No

engineDescription

The description of the database engine for the database blueprint.

Type: String

Required: No

engineVersion

The database engine version for the database blueprint (for example, `5.7.23`).

Type: String

Required: No

engineVersionDescription

The description of the database engine version for the database blueprint.

Type: String

Required: No

isEngineDefault

A Boolean value indicating whether the engine version is the default for the database blueprint.

Type: Boolean

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RelationalDatabaseBundle

Describes a database bundle. A bundle describes the performance specifications of the database.

Contents

bundleId

The ID for the database bundle.

Type: String

Required: No

cpuCount

The number of virtual CPUs (vCPUs) for the database bundle.

Type: Integer

Required: No

diskSizeInGb

The size of the disk for the database bundle.

Type: Integer

Required: No

isActive

A Boolean value indicating whether the database bundle is active.

Type: Boolean

Required: No

isEncrypted

A Boolean value indicating whether the database bundle is encrypted.

Type: Boolean

Required: No

name

The name for the database bundle.

Type: String

Required: No

price

The cost of the database bundle in US currency.

Type: Float

Required: No

ramSizeInGb

The amount of RAM in GB (for example, `2.0`) for the database bundle.

Type: Float

Required: No

transferPerMonthInGb

The data transfer rate per month in GB for the database bundle.

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

RelationalDatabaseEndpoint

Describes an endpoint for a database.

Contents

address

Specifies the DNS address of the database.

Type: String

Pattern: `.*\S.*`

Required: No

port

Specifies the port that the database is listening on.

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

RelationalDatabaseEvent

Describes an event for a database.

Contents

createdAt

The timestamp when the database event was created.

Type: Timestamp

Required: No

eventCategories

The category that the database event belongs to.

Type: Array of strings

Required: No

message

The message of the database event.

Type: String

Required: No

resource

The database that the database event relates to.

Type: String

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

RelationalDatabaseHardware

Describes the hardware of a database.

Contents

cpuCount

The number of vCPUs for the database.

Type: Integer

Required: No

diskSizeInGb

The size of the disk for the database.

Type: Integer

Required: No

ramSizeInGb

The amount of RAM in GB for the database.

Type: Float

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

RelationalDatabaseParameter

Describes the parameters of a database.

Contents

allowedValues

Specifies the valid range of values for the parameter.

Type: String

Required: No

applyMethod

Indicates when parameter updates are applied.

Can be `immediate` or `pending-reboot`.

Type: String

Required: No

applyType

Specifies the engine-specific parameter type.

Type: String

Required: No

dataType

Specifies the valid data type for the parameter.

Type: String

Required: No

description

Provides a description of the parameter.

Type: String

Required: No

isModifiable

A Boolean value indicating whether the parameter can be modified.

Type: Boolean

Required: No

parameterName

Specifies the name of the parameter.

Type: String

Required: No

parameterValue

Specifies the value of the parameter.

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

RelationalDatabaseSnapshot

Describes a database snapshot.

Contents

arn

The Amazon Resource Name (ARN) of the database snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The timestamp when the database snapshot was created.

Type: Timestamp

Required: No

engine

The software of the database snapshot (for example, `MySQL`)

Type: String

Pattern: `.*\S.*`

Required: No

engineVersion

The database engine version for the database snapshot (for example, `5.7.23`).

Type: String

Pattern: `.*\S.*`

Required: No

fromRelationalDatabaseArn

The Amazon Resource Name (ARN) of the database from which the database snapshot was created.

Type: String

Pattern: `.*\S.*`

Required: No

fromRelationalDatabaseBlueprintId

The blueprint ID of the database from which the database snapshot was created. A blueprint describes the major engine version of a database.

Type: String

Required: No

fromRelationalDatabaseBundleId

The bundle ID of the database from which the database snapshot was created.

Type: String

Required: No

fromRelationalDatabaseName

The name of the source database from which the database snapshot was created.

Type: String

Pattern: `.*\S.*`

Required: No

location

The Region name and Availability Zone where the database snapshot is located.

Type: ResourceLocation object

Required: No

name

The name of the database snapshot.

Type: String

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

Required: No

resourceType

The Lightsail resource type.

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

sizeInGb

The size of the disk in GB (for example, 32) for the database snapshot.

Type: Integer

Required: No

state

The state of the database snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

supportCode

The support code for the database snapshot. Include this code in your email to support when you have questions about a database snapshot in Lightsail. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

tags

The tag keys and optional values for the resource. For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Type: Array of Tag 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

RenewalSummary

Describes the status of a SSL/TLS certificate renewal managed by Amazon Lightsail.

Contents

domainValidationRecords

An array of objects that describe the domain validation records of the certificate.

Type: Array of DomainValidationRecord objects

Required: No

renewalStatus

The renewal status of the certificate.

The following renewal status are possible:

- **`PendingAutoRenewal`** - Lightsail is attempting to automatically validate the domain names of the certificate. No further action is required.
- **`PendingValidation`** - Lightsail couldn't automatically validate one or more domain names of the certificate. You must take action to validate these domain names or the certificate won't be renewed. Check to make sure your certificate's domain validation records exist in your domain's DNS, and that your certificate remains in use.
- **`Success`** - All domain names in the certificate are validated, and Lightsail renewed the certificate. No further action is required.
- **`Failed`** - One or more domain names were not validated before the certificate expired, and Lightsail did not renew the certificate. You can request a new certificate using the `CreateCertificate` action.

Type: String

Valid Values: `PendingAutoRenewal | PendingValidation | Success | Failed`

Required: No

renewalStatusReason

The reason for the renewal status of the certificate.

Type: String

Required: No

updatedAt

The timestamp when the certificate was last updated.

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

ResourceBudgetEstimate

Describes the estimated cost or usage that a budget tracks.

Contents

costEstimates

The cost estimate for the specified budget.

Type: Array of CostEstimate objects

Required: No

endTime

The estimate end time.

Type: Timestamp

Required: No

resourceName

The resource name.

Type: String

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

Required: No

resourceType

The type of resource the budget will track.

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

startTime

The estimate start time.

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

ResourceLocation

Describes the resource location.

Contents

availabilityZone

The Availability Zone. Follows the format `us-east-2a` (case-sensitive).

Type: String

Required: No

regionName

The AWS Region name.

Type: String

Valid Values: `us-east-1 | us-east-2 | us-west-1 | us-west-2 | eu-west-1 | eu-west-2 | eu-west-3 | eu-central-1 | eu-north-1 | eu-south-2 | ca-central-1 | ap-east-1 | ap-south-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | ap-northeast-2 | ap-southeast-3 | ap-southeast-5 | sa-east-1`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceReceivingAccess

Describes an Amazon Lightsail instance that has access to a Lightsail bucket.

Contents

name

The name of the Lightsail instance.

Type: String

Pattern: `.*\S.*`

Required: No

resourceType

The Lightsail resource type (for example, `Instance`).

Type: String

Pattern: `.*\S.*`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceRecord

Describes the domain name system (DNS) records to add to your domain's DNS to validate it for an Amazon Lightsail certificate.

Contents

name

The name of the record.

Type: String

Required: No

type

The DNS record type.

Type: String

Required: No

value

The value for the DNS record.

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

Session

Describes a web-based, remote graphical user interface (GUI), Amazon DCV session. The session is used to access a virtual computer's operating system or application.

Contents

isPrimary

When true, this Boolean value indicates the primary session for the specified resource.

Type: Boolean

Required: No

name

The session name.

Type: String

Pattern: `.*\S.*`

Required: No

url

The session URL.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2

- AWS SDK for Ruby V3

SetupExecutionDetails

Returns details about the commands that were run.

Contents

command

The command that was executed.

Type: String

Required: No

dateTime

The timestamp for when the request was run.

Type: Timestamp

Required: No

name

The name of the target resource.

Type: String

Pattern: `.*\S.*`

Required: No

standardError

The text written by the command to stderr.

Type: String

Required: No

standardOutput

The text written by the command to stdout.

Type: String

Required: No

status

The status of the `SetupInstanceHttps` request.

Type: String

Valid Values: `succeeded | failed | inProgress`

Required: No

version

The current version of the script..

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

SetupHistory

Returns a list of the commands that were ran on the target resource.

The status of each command is also returned.

Contents

executionDetails

Describes the full details of the request.

Type: Array of SetupExecutionDetails objects

Required: No

operationId

A GUID that's used to identify the operation.

Type: String

Pattern: `.*\S.*`

Required: No

request

Information about the specified request.

Type: SetupRequest object

Required: No

resource

The target resource name for the request.

Type: SetupHistoryResource object

Required: No

status

The status of the request.

Type: String

Valid Values: `succeeded | failed | inProgress`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SetupHistoryResource

The Lightsail resource that `SetupHistory` was ran on.

Contents

arn

The Amazon Resource Name (ARN) of the Lightsail resource.

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The timestamp for when the resource was created.

Type: Timestamp

Required: No

location

Describes the resource location.

Type: ResourceLocation object

Required: No

name

The name of the Lightsail resource.

Type: String

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

Required: No

resourceType

The Lightsail resource type. For example, `Instance`.

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

SetupRequest

Returns information that was submitted during the `SetupInstanceHttps` request. Email information is redacted for privacy.

Contents

certificateProvider

The Certificate Authority (CA) that issues the SSL/TLS certificate.

Type: String

Valid Values: `LetsEncrypt`

Required: No

domainNames

The name of the domain and subdomains that the SSL/TLS certificate secures.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 4. Maximum length of 253.

Pattern: `^[a-zA-Z0-9\-]{1,63}(\.[a-zA-Z0-9\-]{1,63}){0,8}(\.[a-zA-Z]{2,63})$`

Required: No

instanceName

The name of the Lightsail instance.

Type: String

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

StaticIp

Describes a static IP.

Contents

arn

The Amazon Resource Name (ARN) of the static IP (`arn:aws:lightsail:us-east-2:123456789101:StaticIp/9cbb4a9e-f8e3-4dfe-b57e-12345EXAMPLE`).

Type: String

Pattern: `.*\S.*`

Required: No

attachedTo

The instance where the static IP is attached (`Amazon_Linux-1GB-Ohio-1`).

Type: String

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

Required: No

createdAt

The timestamp when the static IP was created (`1479735304.222`).

Type: Timestamp

Required: No

ipAddress

The static IP address.

Type: String

Pattern: `([0-9]{1,3}\.){3}[0-9]{1,3}`

Required: No

isAttached

A Boolean value indicating whether the static IP is attached.

Type: Boolean

Required: No

location

The region and Availability Zone where the static IP was created.

Type: ResourceLocation object

Required: No

name

The name of the static IP (`StaticIP-Ohio-EXAMPLE`).

Type: String

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

Required: No

resourceType

The resource type (usually `StaticIp`).

Type: String

Valid Values: `ContainerService | Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod | Distribution | Certificate | Bucket`

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about an instance or another resource in Lightsail. This code enables our support team to look up your Lightsail information more easily.

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

StopInstanceOnIdleRequest

Describes a request to create or edit the `StopInstanceOnIdle` add-on.

> **Important**
>
> This add-on only applies to Lightsail for Research resources.

Contents

duration

The amount of idle time in minutes after which your virtual computer will automatically stop.

Type: String

Required: No

threshold

The value to compare with the duration.

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

Tag

Describes a tag key and optional value assigned to an Amazon Lightsail resource.

For more information about tags in Lightsail, see the Amazon Lightsail Developer Guide.

Contents

key

The key of the tag.

Constraints: Tag keys accept a maximum of 128 letters, numbers, spaces in UTF-8, or the following characters: + - = . _ : / @

Type: String

Required: No

value

The value of the tag.

Constraints: Tag values accept a maximum of 256 letters, numbers, spaces in UTF-8, or the following characters: + - = . _ : / @

Type: String

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

TimePeriod

Sets the start date and end date for retrieving a cost estimate. The start date is inclusive, but the end date is exclusive. For example, if `start` is `2017-01-01` and end is `2017-05-01`, then the cost and usage data is retrieved from `2017-01-01` up to and including `2017-04-30` but not including `2017-05-01`.

Contents

end

The end of the time period. The end date is exclusive. For example, if end is `2017-05-01`, Lightsail for Research retrieves cost and usage data from the start date up to, but not including, `2017-05-01`.

Type: Timestamp

Required: No

start

The beginning of the time period. The start date is inclusive. For example, if `start` is `2017-01-01`, Lightsail for Research retrieves cost and usage data starting at `2017-01-01` up to the end date. The start date must be equal to or no later than the current date to avoid a validation error.

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

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