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Welcome

Amazon Lightsail is the easiest way to get started with AWS for developers who just need virtual private servers. Lightsail includes everything you need to launch your project quickly - a virtual machine, a managed database, SSD-based storage, data transfer, DNS management, and a static IP - for a low, predictable price. You manage those Lightsail servers through the Lightsail console or by using the API or command-line interface (CLI).

For more information about Lightsail concepts and tasks, see the Lightsail Dev Guide.

The Lightsail API Reference describes the API actions, data types, and exceptions for working with Lightsail programmatically. We also provide the Lightsail SDK for download for Java, Python, Ruby, PHP, .NET (C#), Go, JavaScript (Node.js and browser), and C++. You can use the See Also links to navigate directly to a reference topic in one of those languages.

This document was last published on May 3, 2020.
Actions

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- AllocateStaticIp (p. 5)
- AttachDisk (p. 8)
- AttachInstancesToLoadBalancer (p. 11)
- AttachLoadBalancerTlsCertificate (p. 14)
- AttachStaticIp (p. 17)
- CloseInstancePublicPorts (p. 20)
- CopySnapshot (p. 23)
- CreateCloudFormationStack (p. 29)
- CreateContactMethod (p. 32)
- CreateDisk (p. 35)
- CreateDiskFromSnapshot (p. 39)
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- CreateDomainEntry (p. 51)
- CreateInstances (p. 54)
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- CreateInstanceSnapshot (p. 63)
- CreateKeyPair (p. 66)
- CreateLoadBalancer (p. 70)
- CreateLoadBalancerTlsCertificate (p. 74)
- CreateRelationalDatabase (p. 78)
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AllocateStaticIp

Allocates a static IP address.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**staticIpName (p. 5)**

The name of the static IP address.

Type: String

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

Required: Yes

Response Syntax

```json
{
    "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 (p. 5)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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:
See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

**Request Syntax**

```json
{
   "diskName": "string",
   "diskPath": "string",
   "instanceName": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

- **diskName (p. 8)**
  - The unique Lightsail disk name (e.g., `my-disk`).
  - Type: String
  - Pattern: `\w[\w\-]*\w`
  - Required: Yes

- **diskPath (p. 8)**
  - The disk path to expose to the instance (e.g., `/dev/xvdf`).
  - Type: String
  - Pattern: `.*\S.*`
  - Required: Yes

- **instanceName (p. 8)**
  - The name of the Lightsail instance where you want to utilize the storage disk.
  - Type: String
  - Pattern: `\w[\w\-]*\w`
  - Required: Yes

**Response Syntax**

```json
{
}
```
Response Elements

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 (p. 8)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) Region. Please set your AWS Region configuration to us-east-1 to create, view, or edit these resources.

HTTP Status Code: 400
Exception List

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Dev Guide.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

`instanceNames (p. 11)`

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 (p. 11)`

The name of the load balancer.

Type: String

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

Required: Yes

Response Syntax

```json
{
  "operations": [ 
    {
      "createdAt": number,
      "errorCode": "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.

operations (p. 11)

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 (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

certificateName (p. 14)

The name of your SSL/TLS certificate.

Type: String

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

Required: Yes

certificateName (p. 14)

The name of your SSL/TLS certificate.

Type: String

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

Required: Yes

loadBalancerName (p. 14)

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",
    }
  ]
}
```
Response Elements

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 (p. 14)

An array of objects that describe the result of the action, such as the status of the request, the time stamp 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 (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
AttachStaticIp

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

**Request Syntax**

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

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**instanceName (p. 17)**

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

Type: String

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

Required: Yes

**staticIpName (p. 17)**

The name of the static IP.

Type: String

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

Required: Yes

**Response Syntax**

```json
{
   "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"
      }
   ]
}
```
### Response Elements

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 (p. 17)**

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 (p. 459)] objects

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 490)].

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CloseInstancePublicPorts

Closes the public ports on a specific Amazon Lightsail instance.

The close instance public ports operation supports tag-based access control via resource tags applied to the resource identified by instance name. For more information, see the Lightsail Dev Guide.

**Request Syntax**

```json
{
   "instanceName": "string",
   "portInfo": {
      "fromPort": number,
      "protocol": "string",
      "toPort": number
   }
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**instanceName (p. 20)**

The name of the instance on which you're attempting to close the public ports.

Type: String

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

Required: Yes

**portInfo (p. 20)**

Information about the public port you are trying to close.

Type: PortInfo (p. 465) object

Required: Yes

**Response Syntax**

```json
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "regionName": "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.

operation (p. 20)

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

Type: Operation (p. 459) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
  "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 (p. 488).

The request accepts the following data in JSON format.

**restoreDate (p. 23)**

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 Lightsail Dev Guide.

Type: String

Required: No

**sourceRegion (p. 23)**

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 | ca-central-1 | ap-south-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | ap-northeast-2
sourceResourceName (p. 23)
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 Lightsail Dev Guide.

Type: String
Required: No

sourceSnapshotName (p. 23)
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 (p. 23)
The name of the new manual snapshot to be created as a copy.

Type: String
Pattern: \w[\w\-]*\w
Required: Yes

useLatestRestorableAutoSnapshot (p. 23)
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 Lightsail Dev Guide.

Type: Boolean
Required: No

Response Syntax

```json
{
  "operations": [
    {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
```
```
Response Elements

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

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

operations (p. 24)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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

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: aws-cli/1.16.223 Python/3.6.0 Windows/10 botocore/1.12.213
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
```
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: aws-cli/1.16.223 Python/3.6.0 Windows/10 botocore/1.12.213
X-Amz-Date: 20190927T195200Z
Authorization: AUTHPARAMS
Content-Length: 134

{
    "sourceSnapshotName": "WordPress-1-1569608575",
    "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-8a960573b3c8
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",
        "operationType": "CopySnapshot",
        "resourceName": "CopiedAutoSnapshot-2019-09-25",
        "resourceType": "InstanceAutoSnapshot",
        "status": "Started",
        "statusChangedAt": 1.5696136589E9
    }]
}
```
"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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
   "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 (p. 488).

The request accepts the following data in JSON format.

**instances (p. 29)**

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 (p. 424) objects

Required: Yes

### Response Syntax

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

operations (p. 29)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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.

Request Syntax

```json
{
    "contactEndpoint": "string",
    "protocol": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**contactEndpoint (p. 32)**

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 in Wikipedia.

Type: String

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

Required: Yes

**protocol (p. 32)**

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.
Response Syntax

```json
{
   "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 (p. 33)**

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

Type: Array of **Operation (p. 459) objects**

Errors

For information about the errors that are common to all actions, see **Common Errors (p. 490)**.

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 (e.g., us-east-2a).

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

Request Syntax

```json
{
    "addOns": [
        {
            "addOnType": "string",
            "autoSnapshotAddOnRequest": {
                "snapshotTimeOfDay": "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 (p. 488).

The request accepts the following data in JSON format.

**addOns (p. 35)**

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

Type: Array of AddOnRequest (p. 379) objects

Required: No

**availabilityZone (p. 35)**

The Availability Zone where you want to create the disk (e.g., 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 (p. 35)**

The unique Lightsail disk name (e.g., my-disk).
Type: String
Pattern: \w[ \w\-]*\w
Required: Yes

sizeInGb (p. 35)
The size of the disk in GB (e.g., 32).
Type: Integer
Required: Yes

tags (p. 35)
The tag keys and optional values to add to the resource during create.
To tag a resource after it has been created, see the tag resource operation.
Type: Array of Tag (p. 487) 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 (p. 36)
An array of objects that describe the result of the action, such as the status of the request, the time
stamp of the request, and the resources affected by the request.
Type: Array of Operation (p. 459) objects
Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• 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 (e.g., 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 Lightsail Dev Guide.

**Request Syntax**

```json
{
  "addOns": [
    {
      "addOnType": "string",
      "autoSnapshotAddOnRequest": {
        "snapshotTimeOfDay": "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 (p. 488).

The request accepts the following data in JSON format.

**addOns (p. 39)**

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

Type: Array of AddOnRequest (p. 379) objects

Required: No

**availabilityZone (p. 39)**

The Availability Zone where you want to create the disk (e.g., 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 (p. 39)**  

The unique Lightsail disk name (e.g., my-disk).  

Type: String  

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

Required: Yes  

**diskSnapshotName (p. 39)**  

The name of the disk snapshot (e.g., 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: Yes  

**restoreDate (p. 39)**  

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 Lightsail Dev Guide.  

Type: String  

Required: No  

**sizeInGb (p. 39)**  

The size of the disk in GB (e.g., 32).  

Type: Integer  

Required: Yes  

**sourceDiskName (p. 39)**  

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 Lightsail Dev Guide.  

Type: String
Required: No

tags (p. 39)

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

To tag a resource after it has been created, see the tag resource operation.

Type: Array of Tag (p. 487) objects

Required: No

useLatestRestorableAutoSnapshot (p. 39)

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 Lightsail Dev 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 (p. 41)

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

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• 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 Lightsail Dev 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 (p. 488).

The request accepts the following data in JSON format.

diskName (p. 44)

The unique name of the source disk (e.g., 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 (p. 44)**

The name of the destination disk snapshot (e.g., my-disk-snapshot) based on the source disk.

Type: String

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

Required: Yes

**instanceName (p. 44)**

The unique name of the source instance (e.g., 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 (p. 44)**

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

To tag a resource after it has been created, see the tag resource operation.

Type: Array of Tag (p. 487) 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 (p. 45)**

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

Type: Array of Operation (p. 459) objects

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
CreateDomain

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

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

domainName (p. 48)

The domain name to manage (e.g., example.com).

**Note**

You cannot register a new domain name using Lightsail. You must register a domain name using Amazon Route 53 or another domain name registrar. If you have already registered your domain, you can enter its name in this parameter to manage the DNS records for that domain.

Type: String

Required: Yes

tags (p. 48)

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

To tag a resource after it has been created, see the tag resource operation.

Type: Array of Tag (p. 487) objects

Required: No

Response Syntax

```json
{
  "operation": {
    "createdAt": number,
    "errorCode": "string",
    "errorDetails": "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.

**operation (p. 48)**

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

Type: Operation (p. 459) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateDomainEntry

Creates one of the following entry records associated with the domain: 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 Lightsail Dev Guide.

Request Syntax

```json
{
  "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 (p. 488).

The request accepts the following data in JSON format.

`domainEntry` (p. 51)

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

Type: `DomainEntry` (p. 410) object

Required: Yes

`domainName` (p. 51)

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

Type: String

Required: Yes

Response Syntax

```json
{
  "operation": {
    "createdAt": number,
    "errorCode": "string",
    "errorDetails": "string",
    "id": "string",
    "isTerminal": boolean,
    "name": "string",
    "target": "string",
    "type": "string"
  }
}
```
Response Elements

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

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

operation (p. 51)

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

Type: Operation (p. 459) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Dev Guide.

Request Syntax

```json
{
  "addOns": [
    {
      "addOnType": "string",
      "autoSnapshotAddOnRequest": {
        "snapshotTimeOfDay": "string"
      }
    }
  ],
  "availabilityZone": "string",
  "blueprintId": "string",
  "bundleId": "string",
  "customImageName": "string",
  "instanceNames": [ "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 (p. 488).

The request accepts the following data in JSON format.

addOns (p. 54)

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

Type: Array of AddOnRequest (p. 379) objects

Required: No

availabilityZone (p. 54)

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 (p. 54)

The ID for a virtual private server image (e.g., app_wordpress_4_4 or app_lamp_7_0). 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 (p. 54)

The bundle of specification information for your virtual private server (or instance), including the pricing plan (e.g., micro_1_0).

Type: String
Pattern: .*\S.*
Required: Yes

customImageName (p. 54)

(Deprecated) The name for your custom image.

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

Type: String
Pattern: \w[\w\-]*\w
Required: No

instanceNames (p. 54)

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

deprecated

instanceName (p. 54)

The name of your instance.

Type: String
Pattern: \w[\w\-]*\w
Required: Yes

tags (p. 54)

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

To tag a resource after it has been created, see the tag resource operation.

Type: Array of Tag (p. 487) objects
Required: No
**userData (p. 54)**

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 Dev 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 (p. 56)**

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

Type: Array of Operation (p. 459) objects

---

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

```json
{
    "addOns": [
        {
            "addOnType": "string",
            "autoSnapshotAddOnRequest": {
                "snapshotTimeOfDay": "string"
            }
        }
    ],
    "attachedDiskMapping": {
        "string": [
            {
                "newDiskName": "string",
                "originalDiskPath": "string"
            }
        ]
    },
    "availabilityZone": "string",
    "bundleId": "string",
    "instanceNames": [ "string" ],
    "instanceSnapshotName": "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 (p. 488).

The request accepts the following data in JSON format.

addOns (p. 58)

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

Type: Array of AddOnRequest (p. 379) objects

Required: No
attachedDiskMapping (p. 58)

An object containing information about one or more disk mappings.

Type: String to array of DiskMap (p. 403) objects map

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

Required: No

availabilityZone (p. 58)

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 (p. 58)

The bundle of specification information for your virtual private server (or instance), including the pricing plan (e.g., micro_1_0).

Type: String

Pattern: .*\S.*

Required: Yes

instanceNames (p. 58)

The names for your new instances.

Type: Array of strings

Required: Yes

instanceSnapshotName (p. 58)

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

keyPairName (p. 58)

The name for your key pair.

Type: String

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

Required: No
restoreDate (p. 58)

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 Lightsail Dev Guide.

Type: String
Required: No

sourceInstanceName (p. 58)

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 Lightsail Dev Guide.

Type: String
Required: No

tags (p. 58)

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

To tag a resource after it has been created, see the tag resource operation.

Type: Array of Tag (p. 487) objects
Required: No

useLatestRestorableAutoSnapshot (p. 58)

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 Lightsail Dev Guide.

Type: Boolean
Required: No

userData (p. 58)

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 Dev Guide.

Type: String
Required: No

Response Syntax

```json
{
  "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 (p. 61)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

```json
{
   "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 (p. 488).

The request accepts the following data in JSON format.

**instanceName (p. 63)**

The Lightsail instance on which to base your snapshot.

Type: String

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

Required: Yes

**instanceSnapshotName (p. 63)**

The name for your new snapshot.

Type: String

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

Required: Yes

**tags (p. 63)**

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

To tag a resource after it has been created, see the tag resource operation.

Type: Array of Tag (p. 487) objects

Required: No
Response Syntax

```json
{
  "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 (p. 64)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateKeyPair

Creates an SSH key pair.

The `CreateKeyPair` operation supports tag-based access control via request tags. For more information, see the Lightsail Dev 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 (p. 488).

The request accepts the following data in JSON format.

**keyPairName (p. 66)**

The name for your new key pair.

Type: String

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

Required: Yes

**tags (p. 66)**

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

To tag a resource after it has been created, see the `tag resource` operation.

Type: Array of Tag (p. 487) objects

Required: No

Response Syntax

```
{
    "keyPair": {
        "arn": "string",
        "createdAt": number,
        "fingerprint": "string",
        "location": {
            "availabilityZone": "string",
            "locationId": "string",
            "region": "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 (p. 66)**

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

Type: KeyPair (p. 439) object

**operation (p. 66)**

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

Type: Operation (p. 459) object

**privateKeyBase64 (p. 66)**

A base64-encoded RSA private key.

Type: String

**publicKeyBase64 (p. 66)**

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 Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• 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 5 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 Lightsail Dev Guide.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

certificateAlternativeNames (p. 70)

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

Type: Array of strings

Required: No

certificateDomainName (p. 70)

The domain name with which your certificate is associated (e.g., example.com).

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

Type: String

Required: No

certificateName (p. 70)

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 (p. 70)
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 (e.g., "/").
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 (p. 70)
The instance port where you're creating your load balancer.
Type: Integer
Valid Range: Minimum value of 0. Maximum value of 65535.
Required: Yes

loadBalancerName (p. 70)
The name of your load balancer.
Type: String
Pattern: \w[\w\-\]*\w
Required: Yes

tags (p. 70)
The tag keys and optional values to add to the resource during create.
To tag a resource after it has been created, see the tag resource operation.
Type: Array of Tag (p. 487) objects
Required: No

Response Syntax

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

operations (p. 71)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateLoadBalancerTlsCertificate

Creates a Lightsail load balancer TLS certificate.

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 Lightsail Dev 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 (p. 488).

The request accepts the following data in JSON format.

certificateAlternativeNames (p. 74)

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 (e.g., *.example.com).

Type: Array of strings

Required: No

certificateDomainName (p. 74)

The domain name (e.g., example.com) for your SSL/TLS certificate.

Type: String

Required: Yes

certificateName (p. 74)

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
Response Syntax

```json
{
  "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 (p. 75)**

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

Type: Array of Operation (p. 459) objects
Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• 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 Lightsail Dev Guide.

Request Syntax

```json
{
  "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 (p. 488).

The request accepts the following data in JSON format.

availabilityZone (p. 78)

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 (p. 78)

The name of the master database created when the Lightsail database resource is created.

Constraints:

- Must contain from 1 to 64 alphanumeric characters.
- Cannot be a word reserved by the specified database engine

Type: String

Required: Yes
**masterUsername (p. 78)**

The master user name for your new database.

Constraints:
- Master user name is required.
- Must contain from 1 to 16 alphanumeric characters.
- The first character must be a letter.
- Cannot be a reserved word for the database engine you choose.

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

Type: String

Required: Yes

**masterUserPassword (p. 78)**

The password for the master user of your new database. The password can include any printable ASCII character except "/", "", or "@".

Constraints: Must contain 8 to 41 characters.

Type: String

Required: No

**preferredBackupWindow (p. 78)**

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 (Amazon RDS) 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 (p. 78)**

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

publiclyAccessible (p. 78)

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 (p. 78)

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

tags (p. 78)

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

To tag a resource after it has been created, see the tag resource operation.
Response Syntax

```json
{
  "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 (p. 81)`

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

Type: Array of `Operation (p. 459)` objects

Errors

For information about the errors that are common to all actions, see `Common Errors (p. 490)`.

`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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 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 Lightsail Dev Guide.

**Request Syntax**

```json
{
    "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 (p. 488).

The request accepts the following data in JSON format.

**availabilityZone (p. 83)**

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 (p. 83)**

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 (p. 83)

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 (p. 83)

The name to use for your new database.

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 (p. 83)

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

Type: String

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

Required: No

restoreTime (p. 83)

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 (p. 83)

The name of the source database.

Type: String

Pattern: \w[\w\-]*\w
Required: No

tags (p. 83)

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

To tag a resource after it has been created, see the tag resource operation.

Type: Array of Tag (p. 487) objects

Required: No

useLatestRestorableTime (p. 83)

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 (p. 85)

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

Type: Array of Operation (p. 459) objects
Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
See Also

- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

```json
{
  "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 (p. 488).

The request accepts the following data in JSON format.

`relationalDatabaseName (p. 88)`

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

Type: String

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

Required: Yes

`relationalDatabaseSnapshotName (p. 88)`

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 (p. 88)`

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

To tag a resource after it has been created, see the `tag resource` operation.
Type: Array of Tag (p. 487) 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 (p. 89)`

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

Type: Array of `Operation (p. 459)` objects

Errors

For information about the errors that are common to all actions, see `Common Errors (p. 490)`.

`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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 (p. 488).

The request accepts the following data in JSON format.

alarmName (p. 91)

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 (p. 91)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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:
See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteAutoSnapshot

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

date (p. 94)

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 (p. 94)

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"
    }
  ]
}
```
Response Elements

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 (p. 94)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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.
See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 (p. 488).

The request accepts the following data in JSON format.

**protocol (p. 97)**

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 (p. 97)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

```
{
  "diskName": "string",
  "forceDeleteAddOns": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

diskName (p. 100)

The unique name of the disk you want to delete (e.g., my-disk).

Type: String
Pattern: \w[\w-]*\w
Required: Yes

forceDeleteAddOns (p. 100)

A Boolean value to indicate whether to delete the enabled 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"
      },
    }
  ]
}
```
Response Elements

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 (p. 100)**

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

  Type: Array of Operation (p. 459) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

```json
{
  "diskSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common
Parameters (p. 488).

The request accepts the following data in JSON format.

diskSnapshotName (p. 103)

The name of the disk snapshot you want to delete (e.g., my-disk-snapshot).

Type: String

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

Required: Yes

Response Syntax

```json
{
  "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 (p. 103)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

```
{
   "domainName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**domainName (p. 106)**

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 (p. 106)

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

Type: Operation (p. 459) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• 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 Lightsail Dev Guide.

Request Syntax

```json
{
   "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 (p. 488).

The request accepts the following data in JSON format.

domainEntry (p. 109)

An array of key-value pairs containing information about your domain entries.

Type: DomainEntry (p. 410) object

Required: Yes
domainName (p. 109)

The name of the domain entry to delete.

Type: String

Required: Yes

Response Syntax

```json
{
   "operation": {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "string",
      "id": "string",
      "isTerminal": boolean,
      "location": {
         "availabilityZone": "string",
         "location": "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.

operation (p. 109)

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

Type: Operation (p. 459) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

```
{
    "forceDeleteAddOns": boolean,
    "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

`forceDeleteAddOns (p. 112)`

A Boolean value to indicate whether to delete the enabled add-ons for the disk.

Type: Boolean

Required: No

`instanceName (p. 112)`

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",
        }
    ]
}
```
Response Elements

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 (p. 112)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

```json
{
  "instanceSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**instanceSnapshotName (p. 115)**

The name of the snapshot to delete.

Type: String

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

Required: Yes

Response Syntax

```json
{
  "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 (p. 115)**

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

Type: Array of [Operation (p. 459)] objects

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 490)].

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteKeyPair

Deletes a specific SSH key pair.

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 Lightsail Dev Guide.

Request Syntax

```json
{
   "keyPairName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

keyPairName (p. 118)

The name of the key pair to delete.

Type: String

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

Required: Yes

Response Syntax

```json
{
   "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 (p. 118)**

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

Type: Operation (p. 459) object

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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:
Amazon Lightsail API Reference
See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
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 (p. 488).

The request accepts the following data in JSON format.

**instanceName (p. 121)**

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 (p. 121)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
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 Lightsail Dev Guide.

Request Syntax

```json
{
   "loadBalancerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**loadBalancerName (p. 124)**

The name of the load balancer you want to delete.

Type: String

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

Required: Yes

Response Syntax

```json
{
   "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
      }
   ]
}
```

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Response Elements

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 (p. 124)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 `loadBalancerName`. For more information, see the Lightsail Dev 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 (p. 488).

The request accepts the following data in JSON format.

`certificateName` (p. 127)

The SSL/TLS certificate name.

Type: String

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

Required: Yes

`force` (p. 127)

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` (p. 127)

The load balancer name.

Type: String

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

Required: Yes

**Response Syntax**

```
{
```

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Response Elements

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 (p. 127)**

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

Type: Array of Operation (p. 459) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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

Operation Failure Exception

Lightsail throws this exception when an operation fails to execute.

HTTP Status Code: 400

Service Exception

A general service exception.

HTTP Status Code: 500

Unauthenticated Exception

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev 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 (p. 488).

The request accepts the following data in JSON format.

finalRelationalDatabaseSnapshotName (p. 130)

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 (p. 130)

The name of the database that you are deleting.

Type: String

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

Required: Yes

skipFinalSnapshot (p. 130)

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.
Response Syntax

```json
{
    "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 (p. 131)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

```json
{
   "relationalDatabaseSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

relationalDatabaseSnapshotName (p. 133)

The name of the database snapshot that you are deleting.

Type: String

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

Required: Yes

Response Syntax

```json
{
   "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 (p. 133)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
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 Lightsail Dev Guide.

Request Syntax

```
{  
  "diskName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**diskName (p. 136)**

The unique name of the disk you want to detach from your instance (e.g., 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 (p. 136)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**instanceNames (p. 139)**

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 (p. 139)**

The name of the Lightsail load balancer.

Type: String

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

Required: Yes

Response Syntax

```json
{
    "operations": [ {
        "createdAt": number,
        "errorCode": "string",
        "errorDetails": "string",
        "id": "string",
        "isTerminal": boolean,
        "location": { "availabilityZone": "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.

**operations (p. 139)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
## DetachStaticIp

Detaches a static IP from the Amazon Lightsail instance to which it is attached.

### Request Syntax

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

### Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

- **staticIpName (p. 142)**
  - The name of the static IP to detach from the instance.
  - Type: String
  - Pattern: \w[\w\-]*\w
  - Required: Yes

### Response Syntax

```json
{
    "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 (p. 142)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DisableAddOn

Disables an add-on for an Amazon Lightsail resource. For more information, see the Lightsail Dev Guide.

Request Syntax

```json
{
   "addOnType": "string",
   "resourceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

addOnType (p. 145)

The add-on type to disable.

Type: String

Valid Values: AutoSnapshot

Required: Yes

resourceName (p. 145)

The name of the source resource for which to disable the add-on.

Type: String

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

Required: Yes

Response Syntax

```json
{
   "operations": [
   
   
   ]
}
```

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Response Elements

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 (p. 145)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DownloadDefaultKeyPair

Downloads the default SSH key pair from the user's account.

Response Syntax

```json
{
    "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.

- **privateKeyBase64 (p. 148)**
  - A base64-encoded RSA private key.
  - Type: String

- **publicKeyBase64 (p. 148)**
  - 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 Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
EnableAddOn

Enables or modifies an add-on for an Amazon Lightsail resource. For more information, see the Lightsail Dev Guide.

Request Syntax

```json
{
  "addOnRequest": {
    "addOnType": "string",
    "autoSnapshotAddOnRequest": {
      "snapshotTimeOfDay": "string"
    }
  },
  "resourceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**addOnRequest (p. 150)**

An array of strings representing the add-on to enable or modify.

Type: AddOnRequest (p. 379) object

Required: Yes

**resourceName (p. 150)**

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

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

**operations (p. 150)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev 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

```json
{
  "sourceSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

sourceSnapshotName (p. 153)

The name of the instance or disk snapshot to be exported to Amazon EC2.

Type: String

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

Required: Yes

Response Syntax

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

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Response Elements

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 (p. 153)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetActiveNames

Returns the names of all active (not deleted) resources.

Request Syntax

```json
{
    "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**pageToken (p. 156)**

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

```json
{
    "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 (p. 156)**

The list of active names returned by the get active names request.

Type: Array of strings

**nextPageToken (p. 156)**

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.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• 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 (p. 488).

The request accepts the following data in JSON format.

**alarmName (p. 159)**

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 (p. 159)**

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 (p. 159)**

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
Response Syntax

```json
{
    "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",
            "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 (p. 160)**

An array of objects that describe the alarms.

Type: Array of Alarm (p. 380) objects

**nextPageToken (p. 160)**

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 Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetAutoSnapshots

Returns the available automatic snapshots for an instance or disk. For more information, see the Lightsail Dev Guide.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

resourceName (p. 163)

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 (p. 163)**

An array of objects that describe the automatic snapshots that are available for the specified source instance or disk.

Type: Array of AutoSnapshotDetails (p. 386) objects

**resourceName (p. 163)**

The name of the source instance or disk for the automatic snapshots.

Type: String

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

**resourceType (p. 163)**

The resource type (e.g., Instance or Disk).

Type: String

Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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**

```json
{
  "includeInactive": boolean,
  "pageToken": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**includeInactive (p. 166)**

A Boolean value indicating whether to include inactive results in your request.

Type: Boolean
Required: No

**pageToken (p. 166)**

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**

```json
{
  "blueprints": [
    {
      "blueprintId": "string",
      "description": "string",
      "group": "string",
      "isActive": boolean,
      "licenseUrl": "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 (p. 166)**

An array of key-value pairs that contains information about the available blueprints.

Type: Array of Blueprint (p. 388) objects

**nextPageToken (p. 166)**

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 Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetBundles

Returns the list of bundles that are available for purchase. A bundle describes the specs for your virtual private server (or instance).

**Request Syntax**

```json
{
   "includeInactive": boolean,
   "pageToken": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**includeInactive (p. 169)**

A Boolean value that indicates whether to include inactive bundle results in your request.

Type: Boolean

Required: No

**pageToken (p. 169)**

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**

```json
{
   "bundles": [
      {
         "bundleId": "string",
         "cpuCount": number,
         "diskSizeInGb": number,
         "instanceType": "string",
         "isActive": boolean,
         "name": "string",
         "power": number,
         "price": number,
         "ramSizeInGb": number,
         "supportedPlatforms": [ "string" ],
         "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 (p. 169)**

An array of key-value pairs that contains information about the available bundles.

Type: Array of Bundle (p. 391) objects

**nextPageToken (p. 169)**

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 Errors (p. 490)](#).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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**

```json
{
    "pageToken": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**pageToken (p. 172)**

The token to advance to the next page of results from your request.

To get a page token, perform an initial GetCloudFormationStackRecords 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**

```json
{
    "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"
                }
            ]
        }
    ]
}
```
Response Elements

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** *(p. 172)*

A list of objects describing the CloudFormation stack records.

Type: Array of **CloudFormationStackRecord** *(p. 393)* objects

**nextPageToken** *(p. 172)*

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 Errors** *(p. 490)*.

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
   "protocols": [ "string" ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**protocols (p. 175)**

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

```json
{
   "contactMethods": [
      {
         "arn": "string",
         "contactEndpoint": "string",
         "createdAt": number,
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "name": "string",
         "protocol": "string",
         "resourceType": "string",
         "status": "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.

contactMethods (p. 175)

An array of objects that describe the contact methods.

Type: Array of ContactMethod (p. 396) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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:
See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetDisk

Returns information about a specific block storage disk.

Request Syntax

```json
{
   "diskName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**diskName (p. 178)**

The name of the disk (e.g., my-disk).

Type: String

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

Required: Yes

Response Syntax

```json
{
   "disk": {
      "addOns": [
         {
            "name": "string",
            "nextSnapshotTimeOfDay": "string",
            "snapshotTimeOfDay": "string",
            "status": "string"
         }
         ],
      "arn": "string",
      "attachedTo": "string",
      "attachmentState": "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"
   }
}
```
Response Elements

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 (p. 178)

An object containing information about the disk.

Type: Disk (p. 399) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 (p. 488).

The request accepts the following data in JSON format.

pageToken (p. 181)

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": [
      {"name": "string",
       "nextSnapshotTimeOfDay": "string",
       "snapshotTimeOfDay": "string",
       "status": "string"
      },
    "arn": "string",
    "attachedTo": "string",
    "attachmentState": "string",
    "createdAt": number,
    "gbInUse": number,
    "iops": number,
    "isAttached": boolean,
    "isSystemDisk": boolean,
    "location": {
      "availabilityZone": "string",
      "regionName": "string"
      },
    "name": "string",
    "path": "string",
    "resourceType": "string",
    "status": "string",
    "statusDetails": "string",
    "volumeId": "string",
    "volumeSize": number
    }
  ]
}
```

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## Response Elements

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 (p. 181)

An array of objects containing information about all block storage disks.

Type: Array of Disk (p. 399) objects

### nextPageToken (p. 181)

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 Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 (p. 488).

The request accepts the following data in JSON format.

diskSnapshotName (p. 184)

  The name of the disk snapshot (e.g., my-disk-snapshot).
  Type: String
  Pattern: \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 (p. 184)

An object containing information about the disk snapshot.

Type: DiskSnapshot (p. 404) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 (p. 488).

The request accepts the following data in JSON format.

**pageToken (p. 187)**

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"
            }
         ]
      }
   ]
}
```

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Response Elements

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 (p. 187)

An array of objects containing information about all block storage disk snapshots.
Type: Array of DiskSnapshot (p. 404) objects

nextPageToken (p. 187)

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 Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetDomain

Returns information about a specific domain recordset.

**Request Syntax**

```json
{
   "domainName": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**domainName (p. 190)**

The domain name for which you want to return information about.

Type: String

Required: Yes

**Response Syntax**

```json
{
   "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",
      "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 (p. 190)

An array of key-value pairs containing information about your get domain request.

Type: Domain (p. 408) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetDomains

Returns a list of all domains in the user’s account.

Request Syntax

```json
{
  "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**pageToken (p. 193)**

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

```json
{
  "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",
      "resourceType": "string",
      "supportCode": "string",
      "tags": [
      ]
    }
  ]
}
```
Response Elements

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 (p. 193)

An array of key-value pairs containing information about each of the domain entries in the user's account.

Type: Array of Domain (p. 408) objects

nextPageToken (p. 193)

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 Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetExportSnapshotRecords

Returns the export snapshot record 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 create cloud formation stack operation.

Request Syntax

```json
{
  "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**pageToken (p. 196)**

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

```json
{
  "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",
```
Response Elements

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 (p. 196)

A list of objects describing the export snapshot records.

Type: Array of ExportSnapshotRecord (p. 412) objects

nextPageToken (p. 196)

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 Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 (p. 488).

The request accepts the following data in JSON format.

**instanceName (p. 199)**

The name of the instance.

- **Type:** String
- **Pattern:** \w[\w\-]*\w
- **Required:** Yes

Response Syntax

```
{
  "instance": {
    "addOns": [
      {
        "name": "string",
        "nextSnapshotTimeOfDay": "string",
        "snapshotTimeOfDay": "string",
        "status": "string"
      }
    ],
    "arn": "string",
    "blueprintId": "string",
    "blueprintName": "string",
    "bundleId": "string",
    "createdAt": number,
    "hardware": {
      "cpuCount": number,
      "disks": [
        {
          "addOns": [
            {
              "name": "string",
              "nextSnapshotTimeOfDay": "string",
              "snapshotTimeOfDay": "string",
              "status": "string"
            }
          ],
          "arn": "string",
```

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199
"attachedTo": "string",
"attachmentState": "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,
"ipv6Address": "string",
"isStaticIp": boolean,
"location": {
  "availabilityZone": "string",
  "regionName": "string"
},
"name": "string",
"networking": {
  "monthlyTransfer": {
    "gbPerMonthAllocated": number
  },
  "ports": [
    {
      "accessDirection": "string",
      "accessFrom": "string",
      "accessType": "string",
      "commonName": "string",
      "fromPort": number,
      "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 (p. 199)**

An array of key-value pairs containing information about the specified instance.

Type: [Instance (p. 418)] object

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 490)].

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**instanceName (p. 203)**

The name of the instance to access.

Type: String

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

Required: Yes

**protocol (p. 203)**

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",
            }
        ]
    }
}
```
Response Elements

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 (p. 203)**

An array of key-value pairs containing information about a get instance access request.

Type: *InstanceAccessDetails (p. 422)* object

**Errors**

For information about the errors that are common to all actions, see *Common Errors (p. 490).*

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetInstanceMetricData

Returns the data points for the specified Amazon Lightsail instance metric, given an instance name.

Request Syntax

```json
{
    "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 (p. 488).

The request accepts the following data in JSON format.

**endTime (p. 206)**

The end time of the time period.

Type: Timestamp

Required: Yes

**instanceName (p. 206)**

The name of the instance for which you want to get metrics data.

Type: String

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

Required: Yes

**metricName (p. 206)**

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.

- **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.

Type: String

Valid Values: CPUUtilization | NetworkIn | NetworkOut | StatusCheckFailed | StatusCheckFailed_Instance | StatusCheckFailed_System

Required: Yes

**period** (p. 206)

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** (p. 206)

The start time of the time period.
Type: Timestamp
Required: Yes

statistics (p. 206)

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 (p. 206)

The unit for the metric data request. Valid units depend on the metric data being required. For the valid units with each available metric, see the metricName parameter.

Type: String
Required: Yes

Response Syntax

```json
{
    "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 (p. 208)**

An array of key-value pairs containing information about the results of your get instance metric data request.

Type: Array of MetricDatapoint (p. 455) objects

**metricName (p. 208)**

The metric name to return data for.

Type: String

Valid Values: CPUUtilization | NetworkIn | NetworkOut | StatusCheckFailed | StatusCheckFailed_Instance | StatusCheckFailed_System

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetInstancePortStates

Returns the port states for a specific virtual private server, or instance.

Request Syntax

```json
{
   "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

instanceName (p. 211)

The name of the instance.

Type: String

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

Required: Yes

Response Syntax

```json
{
   "portStates": [
      {
         "fromPort": number,
         "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 (p. 211)

Information about the port states resulting from your request.

Type: Array of InstancePortState (p. 432) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).
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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 (p. 488).

The request accepts the following data in JSON format.

`pageToken (p. 214)`

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": [
        {
          "name": "string",
          "nextSnapshotTimeOfDay": "string",
          "snapshotTimeOfDay": "string",
          "status": "string"
        }
      ],
      "arn": "string",
      "blueprintId": "string",
      "blueprintName": "string",
      "bundleId": "string",
      "createdAt": number,
      "hardware": {
        "cpuCount": number,
        "disks": []
      }
    }
  ]
}
```

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```
}[
  "arn": "string",
  "attachedTo": "string",
  "attachmentState": "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
},
"ipv6Address": "string",
"isStaticIp": boolean,
"location": {
  "availabilityZone": "string",
  "regionName": "string"
},
"name": "string",
"networking": {
  "monthlyTransfer": {
    "gbPerMonthAllocated": number
  },
  "ports": [
    {
      "accessDirection": "string",
      "accessFrom": "string",
      "accessType": "string",
      "commonName": "string",
      "fromPort": number,
      "protocol": "string",
      "toPort": number
    }
  ],
  "privateIpAddress": "string",
  "publicIpAddress": "string",
  "resourceType": "string",
  "sshKeyName": "string",
  "state": {
    "code": number,
    "name": "string"
  },
  "supportCode": "string",
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

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Response Elements

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 (p. 214)**

An array of key-value pairs containing information about your instances.

Type: Array of Instance (p. 418) objects

**nextPageToken (p. 214)**

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 Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetInstanceSnapshot

Returns information about a specific instance snapshot.

Request Syntax

```json
{
    "instanceSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

`instanceSnapshotName (p. 218)`

The name of the snapshot for which you are requesting information.

Type: String

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

Required: Yes

Response Syntax

```json
{
    "instanceSnapshot": {
        "arn": "string",
        "createdAt": number,
        "fromAttachedDisks": [
            {
                "addOns": [
                    {
                        "name": "string",
                        "nextSnapshotTimeOfDay": "string",
                        "snapshotTimeOfDay": "string",
                        "status": "string"
                    }
                ],
                "arn": "string",
                "attachedTo": "string",
                "attachmentState": "string",
                "createdAt": number,
                "gbInUse": number,
                "iops": number,
                "isAttached": boolean,
                "isSystemDisk": boolean,
                "location": {
                    "availabilityZone": "string",
                    "regionName": "string"
                },
                "name": "string",
                "path": "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.

**instanceSnapshot (p. 218)**

An array of key-value pairs containing information about the results of your get instance snapshot request.

Type: `InstanceSnapshot (p. 434)` object

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 490)].

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetInstanceSnapshots

Returns all instance snapshots for the user's account.

Request Syntax

```json
{
    "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**pageToken (p. 221)**

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

```json
{
    "instanceSnapshots": [
        {
            "arn": "string",
            "createdAt": number,
            "fromAttachedDisks": [
                {
                    "addOns": [
                        {
                            "name": "string",
                            "nextSnapshotTimeOfDay": "string",
                            "snapshotTimeOfDay": "string",
                            "status": "string"
                        }
                    ],
                    "arn": "string",
                    "attachedTo": "string",
                    "attachmentState": "string",
                    "createdAt": number,
                    "gbInUse": number,
                    "iops": number,
                    "isAttached": boolean,
                    "isSystemDisk": boolean,
                    "location": {
                        "availabilityZone": "string",
                        "regionName": "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 (p. 221)

An array of key-value pairs containing information about the results of your get instance snapshots request.

Type: Array of InstanceSnapshot (p. 434) objects

nextPageToken (p. 221)

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 Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
GetInstanceState

Returns the state of a specific instance. Works on one instance at a time.

Request Syntax

```json
{
    "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

`instanceName (p. 225)`

The name of the instance to get state information about.

Type: String

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

Required: Yes

Response Syntax

```json
{
    "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 (p. 225)`

The state of the instance.

Type: `InstanceState (p. 438)` object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).
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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetKeyPair

Returns information about a specific key pair.

Request Syntax

```json
{
   "keyPairName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**keyPairName (p. 228)**

The name of the key pair for which you are requesting information.

Type: String

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

Required: Yes

Response Syntax

```json
{
   "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 (p. 228)

An array of key-value pairs containing information about the key pair.

Type: KeyPair (p. 439) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
See Also

- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetKeyPairs

Returns information about all key pairs 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 (p. 488).

The request accepts the following data in JSON format.

**pageToken (p. 231)**

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"
        }
      ]
    },
    {
      "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 (p. 231)

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

Type: Array of KeyPair (p. 439) objects

nextPageToken (p. 231)

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 Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetLoadBalancer

Returns information about the specified Lightsail load balancer.

**Request Syntax**

```json
{
    "loadBalancerName": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**loadBalancerName (p. 234)**

The name of the load balancer.

Type: String

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

Required: Yes

**Response Syntax**

```json
{
    "loadBalancer": {
        "arn": "string",
        "configurationOptions": {
            "string": "string"
        },
        "createdAt": number,
        "dnsName": "string",
        "healthCheckPath": "string",
        "instanceHealthSummary": [
            {
                "instanceHealth": "string",
                "instanceHealthReason": "string",
                "instanceName": "string"
            }
        ],
        "instancePort": number,
        "location": {
            "availabilityZone": "string",
            "regionName": "string"
        },
        "name": "string",
        "protocol": "string",
        "publicPorts": [ number ],
        "resourceType": "string",
        "state": "string",
        "supportCode": "string",
        "tags": [
"
```
Response Elements

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 (p. 234)**

An object containing information about your load balancer.

Type: LoadBalancer (p. 441) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetLoadBalancerMetricData

Returns information about health metrics for your Lightsail load balancer.

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 (p. 488).

The request accepts the following data in JSON format.

**endTime (p. 237)**

The end time of the period.

Type: Timestamp

Required: Yes

**loadBalancerName (p. 237)**

The name of the load balancer.

Type: String

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

Required: Yes

**metricName (p. 237)**

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 (p. 237)**

The granularity, in seconds, of the returned data points.

Type: Integer

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

Required: Yes

**startTime (p. 237)**

The start time of the period.

Type: Timestamp

Required: Yes

**statistics (p. 237)**

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 (p. 237)**

The unit for the metric data request. Valid units depend on the metric data being required. For the valid units with each available metric, see the `metricName` parameter.

Type: String


Required: Yes

**Response Syntax**

```json
{
    "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 (p. 240)**

An array of metric datapoint objects.

Type: Array of `MetricDatapoint (p. 455)` objects

**metricName (p. 240)**

The metric about which you are receiving information. Valid values are listed below, along with the most useful statistics to include in your request.

- **ClientTLSNegotiationErrorCount** - The number of TLS connections initiated by the client that did not establish a session with the load balancer. Possible causes include a mismatch of ciphers or protocols.

  **Statistics**: The most useful statistic is **Sum**.
• **HealthyHostCount** - The number of target instances that are considered healthy.

  **Statistics:** The most useful statistic are Average, Minimum, and Maximum.

• **UnhealthyHostCount** - The number of target instances that are considered unhealthy.

  **Statistics:** The most useful statistic are Average, Minimum, and Maximum.

• **HTTPCode_LB_4XX_Count** - The number of HTTP 4XX client error codes that originate from the load balancer. Client errors are generated when requests are malformed or incomplete. These requests have not been received by the target instance. This count does not include any response codes generated by the target instances.

  **Statistics:** The most useful statistic is Sum. Note that Minimum, Maximum, and Average all return 1.

• **HTTPCode_LB_5XX_Count** - The number of HTTP 5XX server error codes that originate from the load balancer. This count does not include any response codes generated by the target instances.

  **Statistics:** The most useful statistic is Sum. Note that Minimum, Maximum, and Average all return 1. Note that Minimum, Maximum, and Average all return 1.

• **HTTPCode_Instance_2XX_Count** - The number of HTTP 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.

• **HTTPCode_Instance_3XX_Count** - The number of HTTP 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.

• **HTTPCode_Instance_4XX_Count** - The number of HTTP 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.

• **HTTPCode_Instance_5XX_Count** - The number of HTTP 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.

• **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.

• **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.

• **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.

**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
Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• 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 (p. 488).

The request accepts the following data in JSON format.

`pageToken (p. 244)`

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",
      "instanceHealthSummary": [
        {
          "instanceHealth": "string",
          "instanceHealthReason": "string",
          "instanceName": "string"
        }
      ],
      "instancePort": number,
      "location": {
        "availabilityZone": "string",
        "regionName": "string"
      },
      "name": "string",
      "protocol": "string",
      "publicPorts": [ number ],
      "resourceType": "string"
    }
  ]
}
```

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Response Elements

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 (p. 244)**

An array of LoadBalancer objects describing your load balancers.

Type: Array of `LoadBalancer (p. 441)` objects

**nextPageToken (p. 244)**

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 Errors (p. 490)](#).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
   "loadBalancerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**loadBalancerName (p. 247)**

The name of the load balancer you associated with your SSL/TLS certificate.

Type: String

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

Required: Yes

Response Syntax

```json
{
   "tlsCertificates": [
   {
      "arn": "string",
      "createdAt": number,
      "domainName": "string",
      "domainValidationRecords": [
      {
         "domainName": "string",
         "name": "string",
         "type": "string",
         "validationStatus": "string",
         "value": "string"
      }
   ],
   "failureReason": "string",
   "isAttached": boolean,
   "issuedAt": number,
   "issuer": "string",
   "keyAlgorithm": "string",
   "loadBalancerName": "string",
}
```

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Response Elements

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 (p. 247)

An array of LoadBalancerTlsCertificate objects describing your SSL/TLS certificates.

Type: Array of LoadBalancerTlsCertificate (p. 444) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
  "operationId": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

operationId (p. 250)

A GUID used to identify the operation.

Type: String

Pattern: .\S.*

Required: Yes

Response Syntax

```json
{
  "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 (p. 250)

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

Type: Operation (p. 459) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupIn ProgressException

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-related APIs are only available in the N. Virginia (us-east-1) 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
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• 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 (p. 488).

The request accepts the following data in JSON format.

**pageToken (p. 253)**

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 (p. 253)

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 (p. 253)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetOperationsForResource

Gets operations for a specific resource (e.g., 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 (p. 488).

The request accepts the following data in JSON format.

**pageToken (p. 256)**

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 (p. 256)**

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"
            }
        },
    ]
}
```

Response Elements

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 (p. 256)**

(Deprecated) 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 deprecated, and the API returns the next page token parameter instead.

Type: String

**nextPageToken (p. 256)**

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 (p. 256)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
    "includeAvailabilityZones": boolean,
    "includeRelationalDatabaseAvailabilityZones": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

`includeAvailabilityZones (p. 259)`

A Boolean value indicating whether to also include Availability Zones in your get regions request. Availability Zones are indicated with a letter: e.g., us-east-2a.

Type: Boolean
Required: No

`includeRelationalDatabaseAvailabilityZones (p. 259)`

A Boolean value indicating whether to also include Availability Zones for databases in your get regions request. Availability Zones are indicated with a letter (e.g., us-east-2a).

Type: Boolean
Required: No

Response Syntax

```json
{
    "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 (p. 259)

An array of key-value pairs containing information about your get regions request.

Type: Array of Region (p. 466) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 (p. 488).

The request accepts the following data in JSON format.

relationalDatabaseName (p. 262)

  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": [
      {
        
      }
    ]
  }
}
```

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Response Elements

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 (p. 262)

An object describing the specified database.

Type: RelationalDatabase (p. 468) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 (p. 488).

The request accepts the following data in JSON format.

```
pagetoken (p. 265)
```

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 (p. 265)

An object describing the result of your get relational database blueprints request.

Type: Array of RelationalDatabaseBlueprint (p. 472) objects

nextPageToken (p. 265)

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 Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

`pageToken (p. 268)`

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

```json
{
   "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 (p. 268)**

An object describing the result of your get relational database bundles request.

Type: Array of `RelationalDatabaseBundle (p. 474)` objects

**nextPageToken (p. 268)**

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 Errors (p. 490)](#).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetRelationalDatabaseEvents

Returns a list of events for a specific database in Amazon Lightsail.

**Request Syntax**

```json
{
    "durationInMinutes": number,
    "pageToken": "string",
    "relationalDatabaseName": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see [Common Parameters (p. 488)](https://docs.aws.amazon.com/lightsail/latest/api_reference/common-parameters.html).

The request accepts the following data in JSON format.

- **durationInMinutes (p. 271)**
  - 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 (p. 271)**
  - 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 (p. 271)**
  - The name of the database from which to get events.
  - Type: String
  - Pattern: \w[\w\-]*\w
  - Required: Yes

**Response Syntax**

```json
{
}
```
Response Elements

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 (p. 271)

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 (p. 271)

An object describing the result of your get relational database events request.

Type: Array of RelationalDatabaseEvent (p. 477) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetRelationalDatabaseLogEvents

Returns a list of log events for a database in Amazon Lightsail.

Request Syntax

```json
{
  "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 (p. 488).

The request accepts the following data in JSON format.

**endTime (p. 274)**

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 (p. 274)**

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 (p. 274)**

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 (p. 274)

The name of your database for which to get log events.
Type: String
Pattern: \w[\w\-]*\w
Required: Yes

startFromHead (p. 274)

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 (p. 274)

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 (p. 275)

A token used for advancing to the previous page of results from your get relational database log events request.
**nextForwardToken (p. 275)**

A token used for advancing to the next page of results from your get relational database log events request.

Type: String

**resourceLogEvents (p. 275)**

An object describing the result of your get relational database log events request.

Type: Array of LogEvent (p. 454) objects

---

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetRelationalDatabaseLogStreams

Returns a list of available log streams for a specific database in Amazon Lightsail.

Request Syntax

```json
{
   "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

relationalDatabaseName (p. 278)

The name of your database for which to get log streams.

Type: String

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

Required: Yes

Response Syntax

```json
{
   "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 (p. 278)

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 Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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

UnauthorizedException

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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
  "passwordVersion": "string",
  "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

passwordVersion (p. 280)

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 (p. 280)

The name of your database for which to get the master user password.

Type: String

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

Required: Yes

Response Syntax

```json
{
  "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 (p. 280)**

The timestamp when the specified version of the master user password was created.

Type: Timestamp

**masterUserPassword (p. 280)**

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 Errors (p. 490)](#).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetRelationalDatabaseMetricData

Returns the data points of the specified metric for a database in Amazon Lightsail.

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 (p. 488).

The request accepts the following data in JSON format.

**endTime (p. 283)**

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 (p. 283)**

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.
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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
Required: Yes

**period (p. 283)**

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 (p. 283)**

The name of your database from which to get metric data.
Type: String
Pattern: \w[\w-]*\w
Required: Yes

**startTime (p. 283)**

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.
statistics (p. 283)

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.

unit (p. 283)

The unit for the metric data request. Valid units depend on the metric data being required. For the valid units with each available metric, see the metricName parameter.

Type: String


Required: Yes

Response Syntax

```json
{
  "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 (p. 285)
An object describing the result of your get relational database metric data request.

Type: Array of MetricDatapoint (p. 455) objects

metricName (p. 285)
The name of the metric.

Type: String

Valid Values: CPUUtilization | DatabaseConnections | DiskQueueDepth | FreeStorageSpace | NetworkReceiveThroughput | NetworkTransmitThroughput

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
  "pageToken": "string",
  "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**pageToken (p. 288)**

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 (p. 288)**

The name of your database for which to get parameters.

Type: String

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

Required: Yes

Response Syntax

```json
{
  "nextPageToken": "string",
  "parameters": [
    {
      "allowedValues": "string",
      "applyMethod": "string",
      "applyType": "string",
      "dataType": "string",
      "description": "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 (p. 288)

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 (p. 288)

An object describing the result of your get relational database parameters request.

Type: Array of RelationalDatabaseParameter (p. 479) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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.

Type: String

Note

Domain-related APIs are only available in the N. Virginia (us-east-1) 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.

Type: String

Note

Domain-related APIs are only available in the N. Virginia (us-east-1) Region. Please set your AWS Region configuration to us-east-1 to create, view, or edit these resources.
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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetRelationalDatabases

Returns information about all of your databases in Amazon Lightsail.

Request Syntax

```json
{
   "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**pageToken** (p. 291)

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

```json
{
   "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
         }
      }]
}
```
Response Elements

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 (p. 291)**

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 (p. 291)**

An object describing the result of your `get relational databases` request.

Type: Array of `RelationalDatabase (p. 468)` objects

**Errors**

For information about the errors that are common to all actions, see `Common Errors (p. 490)`. 
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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetRelationalDatabaseSnapshot

Returns information about a specific database snapshot in Amazon Lightsail.

Request Syntax

```json
{
   "relationalDatabaseSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**relationalDatabaseSnapshotName (p. 295)**

The name of the database snapshot for which to get information.

Type: String

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

Required: Yes

Response Syntax

```json
{
   "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 (p. 295)

- An object describing the specified database snapshot.
- Type: RelationalDatabaseSnapshot (p. 481) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 (p. 488).

The request accepts the following data in JSON format.

`pageToken (p. 298)`

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"
      }
   ]
   }
]
```

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Response Elements

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 (p. 298)

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 (p. 298)

An object describing the result of your get relational database snapshots request.

Type: Array of RelationalDatabaseSnapshot (p. 481) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetStaticIp

Returns information about a specific static IP.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**staticIpName (p. 301)**

The name of the static IP in Lightsail.

- Type: String
- Pattern: \w[\w\-]*\w
- Required: Yes

Response Syntax

```json
{
  "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 (p. 301)**

An array of key-value pairs containing information about the requested static IP.
Type: StaticIp (p. 485) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
See Also

- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetStaticIps

Returns information about all static IPs in the user's account.

Request Syntax

```json
{
  "pageToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**pageToken (p. 304)**

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

```json
{
  "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 (p. 304)**

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 (p. 304)**

An array of key-value pairs containing information about your get static IPs request.

Type: Array of `StaticIp (p. 485)` objects

## Errors

For information about the errors that are common to all actions, see [Common Errors (p. 490)](#).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ImportKeyPair

Imports a public SSH key from a specific key pair.

Request Syntax

```json
{
  "keyPairName": "string",
  "publicKeyBase64": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**keyPairName (p. 307)**

The name of the key pair for which you want to import the public key.

Type: String
Pattern: \w[\w\-]*\w
Required: Yes

**publicKeyBase64 (p. 307)**

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

Type: String
Required: Yes

Response Syntax

```json
{
  "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 (p. 307)**

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

Type: Operation (p. 459) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
IsVpcPeered

Returns a Boolean value indicating whether your Lightsail VPC is peered.

Response Syntax

```json
{
   "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 (p. 310)**

- 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 Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
OpenInstancePublicPorts

Adds public ports to an Amazon Lightsail instance.

The `open_instance_public_ports` operation supports tag-based access control via resource tags applied to the resource identified by `instance_name`. For more information, see the Lightsail Dev Guide.

Request Syntax

```
{  
  "instanceName": "string",  
  "portInfo": {    
    "fromPort": number,    
    "protocol": "string",    
    "toPort": number  
  }  
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

`instanceName (p. 312)`

The name of the instance for which you want to open the public ports.

Type: String

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

Required: Yes

`portInfo (p. 312)`

An array of key-value pairs containing information about the port mappings.

Type: `PortInfo (p. 465)` object

Required: Yes

Response Syntax

```
{  
  "operation": {    
    "createdAt": number,    
    "errorCode": "string",    
    "errorDetails": "string",    
    "id": "string",    
    "isTerminal": boolean,    
    "location": {      
      "availabilityZone": "string",      
      "regionName": "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.

**operation (p. 312)**

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

Type: Operation (p. 459) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
PeerVpc

Tries to peer the Lightsail VPC with the user's default VPC.

Response Syntax

```json
{
  "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 (p. 315)

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

Type: Operation (p. 459) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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.

**Request Syntax**

```
{
  "alarmName": "string",
  "comparisonOperator": "string",
  "contactProtocols": [ "string" ],
  "datapointsToAlarm": number,
  "evaluationPeriods": number,
  "metricName": "string",
  "monitoredResourceName": "string",
  "notificationEnabled": boolean,
  "notificationTriggers": [ "string" ],
  "threshold": number,
  "treatMissingData": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see [Common Parameters (p. 488)](https://lightsail.amazonaws.com/doc/latest/common-parameters.html).

The request accepts the following data in JSON format.

**alarmName (p. 317)**

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 (p. 317)**

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

---

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Request Parameters

**contactProtocols (p. 317)**

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 parameter.

Use the CreateContactMethod action to configure a contact protocol in an AWS Region.

Type: Array of strings

Valid Values: Email | SMS

Required: No

**datapointsToAlarm (p. 317)**

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 (p. 317)**

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 (p. 317)**

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**: 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.

  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

  Required: Yes

**monitoredResourceName (p. 317)**

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 (p. 317)**

Indicates whether the alarm is enabled.

Notifications are enabled by default if you don't specify this parameter.

Type: Boolean

Required: No

**notificationTriggers (p. 317)**

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

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Required: No

**threshold (p. 317)**

The value against which the specified statistic is compared.

Type: Double

Required: Yes

**treatMissingData (p. 317)**

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**

```json
{
    "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 (p. 320)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
See Also

- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
PutInstancePublicPorts

Sets the specified open ports for an Amazon Lightsail instance, and closes all ports for every protocol not included in the current request.

The `put instance public ports` operation supports tag-based access control via resource tags applied to the resource identified by `instance name`. For more information, see the Lightsail Dev Guide.

Request Syntax

```json
{
    "instanceName": "string",
    "portInfos": [
        {
            "fromPort": number,
            "protocol": "string",
            "toPort": number
        }
    ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**instanceName (p. 323)**

The Lightsail instance name of the public port(s) you are setting.

Type: String

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

Required: Yes

**portInfos (p. 323)**

Specifies information about the public port(s).

Type: Array of PortInfo (p. 465) objects

Required: Yes

Response Syntax

```json
{
    "operation": {
        "createdAt": number,
        "errorCode": "string",
        "errorDetails": "string",
        "id": "string",
        "isTerminal": boolean,
        "location": {
```

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Response Elements

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 (p. 323)

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

Type: Operation (p. 459) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

```json
{
    "instanceName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

`instanceName (p. 326)`

- The name of the instance to reboot.
- Type: String
- Pattern: \w[\w\-]*\w
- Required: Yes

Response Syntax

```json
{
    "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 (p. 326)**

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

Type: Array of Operation (p. 459) objects

---

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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:
See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

```json
{
  "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

`relationalDatabaseName` (p. 329)

The name of your database to reboot.

Type: String

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

Required: Yes

Response Syntax

```json
{
  "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 (p. 329)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 (p. 488).

The request accepts the following data in JSON format.

**staticIpName (p. 332)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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:
See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
   "protocol": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**protocol** (p. 335)

The protocol to verify, such as Email or SMS (text messaging).

Type: String

Valid Values: `Email`

Required: Yes

Response Syntax

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

operations (p. 335)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev 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 Lightsail Dev Guide.

**Request Syntax**

```
{
  "instanceName": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**instanceName (p. 338)**

- 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 (p. 338)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

```
{
   "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**relationalDatabaseName (p. 341)**

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 (p. 341)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev 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 Lightsail Dev Guide.

**Request Syntax**

```json
{
  "force": boolean,
  "instanceName": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**force (p. 344)**

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 (p. 344)**

The name of the instance (a virtual private server) to stop.

Type: String

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

Required: Yes

**Response Syntax**

```json
{
  "operations": [
    {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "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.

**operations (p. 344)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
StopRelationalDatabase

Stops a specific database that is currently running in Amazon Lightsail.

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 Lightsail Dev Guide.

Request Syntax

```
{  
   "relationalDatabaseName": "string",
   "relationalDatabaseSnapshotName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**relationalDatabaseName (p. 347)**

The name of your database to stop.

Type: String

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

Required: Yes

**relationalDatabaseSnapshotName (p. 347)**

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",
   
   
   
   
   
   }
```

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Response Elements

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 (p. 347)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see **Common Errors (p. 490).**

**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-related APIs are only available in the N. Virginia (us-east-1) 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
See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev 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 Lightsail Dev Guide.

**Request Syntax**

```json
{
   "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 (p. 488).

The request accepts the following data in JSON format.

**resourceArn (p. 350)**

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-Z-0-9-]+)$`

Required: No

**resourceName (p. 350)**

The name of the resource to which you are adding tags.

Type: String

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

Required: Yes

**tags (p. 350)**

The tag key and optional value.

Type: Array of Tag (p. 487) objects

Required: Yes
Response Syntax

```json
{
    "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 (p. 351)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
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

```json
{
    "alarmName": "string",
    "state": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**alarmName (p. 353)**

The name of the alarm to test.

Type: String

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

Required: Yes

**state (p. 353)**

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

```json
{
    "operations": [
        {
            "createdAt": 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 (p. 353)**

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

Type: Array of Operation (p. 459) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
UnpeerVpc

Attempts to unpeer 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 (p. 356)**

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

Type: Operation (p. 459) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
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 Lightsail Dev 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 (p. 488).

The request accepts the following data in JSON format.

**resourceArn (p. 358)**

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 (p. 358)**

The name of the resource from which you are removing a tag.

Type: String

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

Required: Yes

**tagKeys (p. 358)**

The tag keys to delete from the specified resource.

Type: Array of strings

Required: Yes

Response Syntax

```
{
    "operations": [
        {
            "createdAt": 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 (p. 358)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
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 Lightsail Dev Guide.

Request Syntax

```json
{
    "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 (p. 488).

The request accepts the following data in JSON format.

domainEntry (p. 361)

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

Type: DomainEntry (p. 410) object

Required: Yes
domainName (p. 361)

The name of the domain recordset to update.

Type: String

Required: Yes

Response Syntax

```json
{
    "operations": [
        {
            "createdAt": number,
            "errorCode": "string",
            "errorDetails": "string",
            "id": "string",
            "isTerminal": boolean,
            "location": {
                "availabilityZone": "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.

**operations (p. 361)**

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

**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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev 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 (p. 488).

The request accepts the following data in JSON format.

- **attributeName (p. 364)**
  - The name of the attribute you want to update. Valid values are below.
  - Type: String
  - Valid Values: HealthCheckPath | SessionStickinessEnabled | SessionStickiness_LB_CookieDurationSeconds
  - Required: Yes

- **attributeValue (p. 364)**
  - The value that you want to specify for the attribute name.
  - Type: String
  - Required: Yes

- **loadBalancerName (p. 364)**
  - The name of the load balancer that you want to modify (e.g., 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 (p. 364)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
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 Lightsail Dev Guide.

Request Syntax

```json
{
  "applyImmediately": boolean,
  "caCertificateIdentifier": "string",
  "disableBackupRetention": boolean,
  "enableBackupRetention": boolean,
  "masterUserPassword": "string",
  "preferredBackupWindow": "string",
  "preferredMaintenanceWindow": "string",
  "publiclyAccessible": boolean,
  "relationalDatabaseName": "string",
  "rotateMasterUserPassword": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 488).

The request accepts the following data in JSON format.

**applyImmediately (p. 367)**

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 (p. 367)**

Indicates the certificate that needs to be associated with the database.

Type: String

Required: No

**disableBackupRetention (p. 367)**

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 (p. 367)**

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 (p. 367)**

The password for the master user of your database. The password can include any printable ASCII character except "/", "", or "@".

Constraints: Must contain 8 to 41 characters.

Type: String
Required: No

**preferredBackupWindow (p. 367)**

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 (p. 367)**

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 (p. 367)

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

relationalDatabaseName (p. 367)

The name of your database to update.

Type: String
Pattern: `\w[\w\-]*\w`
Required: Yes

rotateMasterUserPassword (p. 367)

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

```json
{
  "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 (p. 369)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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:
See Also

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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 Lightsail Dev Guide.

Request Syntax

```json
{
    "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](p. 488).

The request accepts the following data in JSON format.

parameters (p. 372)

The database parameters to update.

Type: Array of [RelationalDatabaseParameter](p. 479) objects

Required: Yes

relationalDatabaseName (p. 372)

The name of your database for which to update parameters.

Type: String

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

Required: Yes
Response Syntax

```json
{
  "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 (p. 373)

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

Type: Array of Operation (p. 459) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 490).

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-related APIs are only available in the N. Virginia (us-east-1) 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
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- 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:

- AddOn (p. 377)
- AddOnRequest (p. 379)
- Alarm (p. 380)
- AttachedDisk (p. 384)
- AutoSnapshotAddOnRequest (p. 385)
- AutoSnapshotDetails (p. 386)
- AvailabilityZone (p. 387)
- Blueprint (p. 388)
- Bundle (p. 391)
- CloudFormationStackRecord (p. 393)
- CloudFormationStackRecordSourceInfo (p. 395)
- ContactMethod (p. 396)
- DestinationInfo (p. 398)
- Disk (p. 399)
- DiskInfo (p. 402)
- DiskMap (p. 403)
- DiskSnapshot (p. 404)
- DiskSnapshotInfo (p. 407)
- Domain (p. 408)
- DomainEntry (p. 410)
- ExportSnapshotRecord (p. 412)
- ExportSnapshotRecordSourceInfo (p. 414)
- HostKeyAttributes (p. 416)
- Instance (p. 418)
- InstanceAccessDetails (p. 422)
- InstanceEntry (p. 424)
- InstanceHardware (p. 426)
- InstanceHealthSummary (p. 427)
- InstanceNetworking (p. 429)
- InstancePortInfo (p. 430)
- InstancePortState (p. 432)
- InstanceSnapshot (p. 434)
- InstanceSnapshotInfo (p. 437)
- InstanceState (p. 438)
- KeyPair (p. 439)
• LoadBalancer (p. 441)
• LoadBalancerTlsCertificate (p. 444)
• LoadBalancerTlsCertificateDomainValidationOption (p. 449)
• LoadBalancerTlsCertificateDomainValidationRecord (p. 450)
• LoadBalancerTlsCertificateRenewalSummary (p. 452)
• LoadBalancerTlsCertificateSummary (p. 453)
• LogEvent (p. 454)
• MetricDatapoint (p. 455)
• MonitoredResourceInfo (p. 457)
• MonthlyTransfer (p. 458)
• Operation (p. 459)
• PasswordData (p. 462)
• PendingMaintenanceAction (p. 463)
• PendingModifiedRelationalDatabaseValues (p. 464)
• PortInfo (p. 465)
• Region (p. 466)
• RelationalDatabase (p. 468)
• RelationalDatabaseBlueprint (p. 472)
• RelationalDatabaseBundle (p. 474)
• RelationalDatabaseEndpoint (p. 476)
• RelationalDatabaseEvent (p. 477)
• RelationalDatabaseHardware (p. 478)
• RelationalDatabaseParameter (p. 479)
• RelationalDatabaseSnapshot (p. 481)
• ResourceLocation (p. 484)
• StaticIp (p. 485)
• Tag (p. 487)
AddOn

Describes an add-on that is enabled for an Amazon Lightsail resource.

Contents

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: ^([0-9]|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: ^([0-9]|1[0-9]|2[0-3]):[0-5][0-9]$

Required: No

status

The status of the add-on.

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 Go
- AWS SDK for Java
- 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

Required: Yes

**autoSnapshotAddOnRequest**

An object that represents additional parameters when enabling or modifying the automatic snapshot add-on.

Type: AutoSnapshotAddOnRequest (p. 385) 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
Alarm

Describes 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 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 (p. 484) 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

Required: No

monitoredResourceInfo

An object that lists information about the resource monitored by the alarm.

Type: MonitoredResourceInfo (p. 457) 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 (e.g., Alarm).

Type: String

Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

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

**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


Required: No

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- 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 (e.g., /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 Go
- AWS SDK for Java
- 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 Go
- AWS SDK for Java
- 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 (p. 384) 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
AvailabilityZone

Describes an Availability Zone.

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
Blueprint

Describes a blueprint (a virtual private server image).

Contents

`blueprintId`

The ID for the virtual private server image (e.g., `app_wordpress_4_4` or `app_lamp_7_0`).

Type: String

Pattern: `.*\S.*`

Required: No

`description`

The description of the blueprint.

Type: String

Required: No

`group`

The group name of the blueprint (e.g., `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 (e.g., 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 (e.g., os or app).
Type: String
Valid Values: os | app
Required: No

version
The version number of the operating system, application, or stack (e.g., 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 Go
- AWS SDK for Java
- 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 (e.g., `micro_1_0`).

Type: String

Pattern: `.*\S.*`

Required: No

**cpuCount**

The number of vCPUs included in the bundle (e.g., 2).

Type: Integer

Required: No

**diskSizeInGb**

The size of the SSD (e.g., 30).

Type: Integer

Required: No

**instanceType**

The Amazon EC2 instance type (e.g., `t2.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 (e.g., `Micro`).

Type: String

Required: No

**power**

A numeric value that represents the power of the bundle (e.g., 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 (e.g., 5.0).

Type: Float

Required: No

**ramSizeInGb**

The amount of RAM in GB (e.g., 2.0).

Type: Float

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 (e.g., 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
CloudFormationStackRecord

Describes a CloudFormation stack record created as a result of the `create cloud formation stack` operation.

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 (p. 398)` object

Required: No

**location**

A list of objects describing the Availability Zone and AWS Region of the CloudFormation stack record.

Type: `ResourceLocation (p. 484)` 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 (e.g., `CloudFormationStackRecord`).

Type: String
Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

Required: No

sourceInfo

A list of objects describing the source of the CloudFormation stack record.

Type: Array of CloudFormationStackRecordSourceInfo (p. 395) 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 Go
- AWS SDK for Java
- 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 (e.g., 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 Go
- AWS SDK for Java
- 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: .*

Required: No

contactEndpoint

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

Type: String

Pattern: .*

Required: No

createdAt

The timestamp when the contact method was created.

Type: Timestamp

Required: No

location

Describes the resource location.

Type: ResourceLocation (p. 484) 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 (e.g., ContactMethod).

Type: String

Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

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

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
Disk

Describes a system disk or a block storage disk.

Contents

addOns

An array of objects representing the add-ons enabled on the disk.

Type: Array of AddOn (p. 377) 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

(Deprecated) 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 deprecated, but still included in the response. Use isAttached instead.

Type: String

Required: No

createdAt

The date when the disk was created.

Type: Timestamp

Required: No

gbInUse

(Deprecated) 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 deprecated.

Type: Integer
**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 (p. 484) 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 (e.g., Disk).

*Type: String*

*Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod*

*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 Lightsail Dev Guide.
Type: Array of Tag (p. 487) 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 Go
- AWS SDK for Java
- 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 (e.g., 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
DiskMap

Describes a block storage disk mapping.

Contents

**newDiskName**

The new disk name (e.g., *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 Go
- AWS SDK for Java
- 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
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 (p. 484) object
Required: No

name

The name of the disk snapshot (e.g., my-disk-snapshot).

Type: String
Pattern: \w[\w\-]*\w
Required: No

progress

The progress of the disk snapshot operation.

Type: String
Required: No

resourceType

The Lightsail resource type (e.g., DiskSnapshot).

Type: String

Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

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 Lightsail Dev Guide.

Type: Array of Tag (p. 487) 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
DiskSnapshotInfo

Describes a disk snapshot.

Contents

sizeInGb

The size of the disk in GB (e.g., 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
Domain

Describes a domain where you are storing recordsets in Lightsail.

Contents

arn

The Amazon Resource Name (ARN) of the domain recordset (e.g., `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 (p. 410) objects
Required: No

location

The AWS Region and Availability Zones where the domain recordset was created.

Type: ResourceLocation (p. 484) object
Required: No

name

The name of the domain.

Type: String
Pattern: \w[\w\-_]*\w
Required: No

resourceType

The resource type.

Type: String
Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

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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 Lightsail Dev Guide.

Type: Array of Tag (p. 487) 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 Go
- AWS SDK for Java
- 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. You can include an alias (A type) record in your request, which points to a load balancer DNS name and routes traffic to your load balancer.

Type: Boolean

Required: No

name

The name of the domain.

Type: String

Required: No

options

(Deprecated) 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 deprecated.

Type: String to string map

Required: No

target

The target AWS name server (e.g., ns-111.awsdns-22.com.).

For Lightsail load balancers, the value looks like ab1234c56789c6b86aba6fb203d443bc-123456789.us-east-2.elb.amazonaws.com. Be sure to also set isAlias to true when setting up an A record for a load balancer.

Type: String

Required: No

type

The type of domain entry, such as address (A), 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
- 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 Go
- AWS SDK for Java
- 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: .*

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 (p. 398) object

Required: No

**location**

The AWS Region and Availability Zone where the export snapshot record is located.

Type: ResourceLocation (p. 484) object

Required: No

**name**

The export snapshot record name.

Type: String

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

Required: No

**resourceType**

The Lightsail resource type (e.g., ExportSnapshotRecord).

Type: String

Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

Required: No
sourceInfo

A list of objects describing the source of the export snapshot record.

Type: ExportSnapshotRecordSourceInfo (p. 414) 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 Go
- AWS SDK for Java
- 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 (p. 407) 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 (p. 437) object

Required: No

**name**

The name of the source instance or disk snapshot.
resourceType

The Lightsail resource type (e.g., 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 Go
- AWS SDK for Java
- 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:

  SHA1:1CHH6FaAxAjtF0sR/t83vf91SR0

• Example of an SHA-1 RDP fingerprint:


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:KTsMnRbh1Hd17HpdfsbzeGA4jOim5tyXsWjsKvbB8o

• Example of an SHA-256 RDP fingerprint:


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 Go
- AWS SDK for Java
- 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 (p. 377) objects

Required: No

arn

The Amazon Resource Name (ARN) of the instance (e.g., arn:aws:lightsail:us-east-2:123456789101:Instance/244ad76f-8aad-4741-809f-12345EXAMPLE).

Type: String

Pattern: .*\S.*

Required: No

blueprintId

The blueprint ID (e.g., os_amlinux_2016_03).

Type: String

Pattern: .*\S.*

Required: No

blueprintName

The friendly name of the blueprint (e.g., Amazon Linux).

Type: String

Pattern: .*\S.*

Required: No

bundleId

The bundle for the instance (e.g., micro_1_0).

Type: String

Pattern: .*\S.*

Required: No

createdAt

The timestamp when the instance was created (e.g., 1479734909.17).

Type: Timestamp

Required: No
hardware
The size of the vCPU and the amount of RAM for the instance.
Type: InstanceHardware (p. 426) object
Required: No

ipv6Address
The IPv6 address of the instance.
Type: String
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 (p. 484) object
Required: No

name
The name the user gave the instance (e.g., AmazonLinux-1GB-Ohio-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 (p. 429) 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: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

Required: No

**sshKeyName**

The name of the SSH key being used to connect to the instance (e.g., LightsailDefaultKeyPair).

Type: String

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

Required: No

**state**

The status code and the state (e.g., running) for the instance.

Type: InstanceState (p. 438) 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 Lightsail Dev Guide.

Type: Array of Tag (p. 487) objects

Required: No

**username**

The user name for connecting to the instance (e.g., 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 Go
- AWS SDK for Java
- 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 (e.g., command line SSH), you should save this value to `tempkey-cert.pub`.

Type: String

Required: No

dateExpires

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 (p. 416) 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

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.
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 (p. 462) object

privateKey

For SSH access, the temporary private key. For OpenSSH clients (e.g., command line SSH), you should save this value to tempkey).

Type: String

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 Go
- AWS SDK for Java
- 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 (e.g., 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 image.
- INSTANCE — Use the firewall settings from the source Lightsail instance.
- NONE — Default to Amazon EC2.
- CLOSED — All ports closed.

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 Go
- AWS SDK for Java
- 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 (p. 399) objects

Required: No

ramSizeInGb

The amount of RAM in GB on the instance (e.g., 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 Go
- AWS SDK for Java
- 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

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 Go
- AWS SDK for Java
- 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 (p. 458) object

Required: No

ports

An array of key-value pairs containing information about the ports on the instance.

Type: Array of InstancePortInfo (p. 430) 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
InstancePortInfo

Describes information about the instance ports.

Contents

accessDirection

The access direction (inbound or outbound).

- Type: String
- Valid Values: inbound | outbound
- Required: No

accessFrom

The location from which access is allowed (e.g., Anywhere (0.0.0.0/0)).

- Type: String
- Required: No

accessType

The type of access (Public or Private).

- Type: String
- Valid Values: Public | Private
- Required: No

commonName

The common name.

- Type: String
- Required: No

fromPort

The first port in the range.

- Type: Integer
- Valid Range: Minimum value of 0. Maximum value of 65535.
- Required: No

protocol

The protocol being used. 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.

Type: String

Valid Values: tcp | all | udp

Required: No

toPort

The last port in the range.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
InstancePortState

Describes the port state.

Contents

fromPort

The first port in the range.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

protocol

The protocol being used. 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.

Type: String

Valid Values: tcp | all | udp

Required: No

state

Specifies whether the instance port is open or closed.

Type: String

Valid Values: open | closed

Required: No

toPort

The last port in the range.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
# InstanceSnapshot

Describes an instance snapshot.

## Contents

### arn

The Amazon Resource Name (ARN) of the snapshot (e.g., `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 (e.g., `1479907467.024`).

Type: Timestamp

Required: No

### fromAttachedDisks

An array of disk objects containing information about all block storage disks.

Type: Array of Disk (p. 399) objects

Required: No

### fromBlueprintId

The blueprint ID from which you created the snapshot (e.g., `os_debian_8_3`). 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 (e.g., `micro_1_0`).

Type: String

Required: No

### fromInstanceArn

The Amazon Resource Name (ARN) of the instance from which the snapshot was created (e.g., `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](#) (p. 484) object

Required: No

**name**

The name of the snapshot.

Type: String

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

Required: No

**progress**

The progress of the snapshot.

Type: String

Required: No

**resourceType**

The type of resource (usually InstanceSnapshot).

Type: String

Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

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 Lightsail Dev Guide.

Type: Array of Tag (p. 487) 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
InstanceSnapshotInfo

Describes an instance snapshot.

Contents

**fromBlueprintId**

The blueprint ID from which the source instance (e.g., os_debian_8_3).

Type: String

Pattern: .\S.*

Required: No

**fromBundleId**

The bundle ID from which the source instance was created (e.g., micro_1_0).

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 (p. 402) 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 Go
- AWS SDK for Java
- 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 (e.g., 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
KeyPair

Describes the SSH key pair.

Contents

arn

The Amazon Resource Name (ARN) of the key pair (e.g., arn:aws:lightsail:useast-2:123456789101:KeyPair/05859e1d-331d-48ba-9034-12345EXAMPLE).

Type: String

Pattern: .\S.*

Required: No

createdAt

The timestamp when the key pair was created (e.g., 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 (p. 484) 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: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

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 Lightsail Dev Guide.

Type: Array of Tag (p. 487) objects
Required: No
LoadBalancer

Describes the Lightsail load balancer.

Contents

arn

The Amazon Resource Name (ARN) of the load balancer.

Type: String
Pattern: .*\S.*
Required: No

collectionOptions

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

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

instanceHealthSummary

An array of InstanceHealthSummary objects describing the health of the load balancer.

Type: Array of InstanceHealthSummary (p. 427) objects
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

location

The AWS Region where your load balancer was created (e.g., us-east-2a). Lightsail automatically creates your load balancer across Availability Zones.

Type: ResourceLocation (p. 484) object

name

The name of the load balancer (e.g., my-load-balancer).

Type: String

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

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 0. Maximum value of 65535.

resourceType

The resource type (e.g., LoadBalancer).

Type: String

Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

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 Lightsail Dev Guide.

Type: Array of Tag (p. 487) 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 (p. 453) 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 Go
- AWS SDK for Java
- 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 (p. 450) objects

Required: No

failureReason

The reason for the SSL/TLS certificate validation failure.

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: . starving.*

Required: No

**keyAlgorithm**

The algorithm that was used to generate the key pair (the public and private key).

Type: String  
Pattern: . starving.*

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](p. 484) object  

Required: No

**name**

The name of the SSL/TLS certificate (e.g., 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 containing information about the status of Lightsail's managed renewal for the certificate.

Type: LoadBalancerTlsCertificateRenewalSummary (p. 452) object

Required: No

resourceType

The resource type (e.g., 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: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

Required: No

revocationReason

The reason the certificate was revoked. Valid values are below.

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 SSL/TLS certificate was revoked.

Type: Timestamp

Required: No

serial

The serial number of the certificate.

Type: String
signatureAlgorithm

The algorithm that was used to sign the certificate.
Type: String
Pattern: .*\S.*
Required: No

status

The 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

One or more domains or subdomains included in the certificate. This list contains the domain names that are bound to the public key that is contained in the certificate. The subject alternative names include the canonical domain name (CNAME) of the certificate and additional domain names that can be used to connect to the website, such as example.com, www.example.com, or m.example.com.
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 Lightsail Dev Guide.
Type: Array of Tag (p. 487) 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 Go
- AWS SDK for Java
- 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
LoadBalancerTlsCertificateDomainValidationRecord

Describes the validation record of each domain name in the SSL/TLS certificate.

Contents

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 Go
• AWS SDK for Java
• AWS SDK for Ruby V3
LoadBalancerTlsCertificateRenewalSummary

Contains information about the status of Lightsail's managed renewal for the certificate.

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 (p. 449) objects

Required: No

renewalStatus

The status of Lightsail's managed renewal of the certificate. Valid values are listed below.

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 Go
- AWS SDK for Java
- 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 Go
- AWS SDK for Java
- 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 Go
- AWS SDK for Java
- 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

*sampelCount*

The sample count.

Type: Double

Required: No

*sum*

The sum.

Type: Double

Required: No

*timestamp*

The timestamp (e.g., 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/...
See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- 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: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
Operation

Describes the API operation.

Contents

createdAt

The timestamp when the operation was initialized (e.g., 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 (p. 484) object

Required: No

operationDetails

Details about the operation (e.g., 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 | CreateRelationalDatabaseSnapshot | DeleteRelationalDatabaseSnapshot | UpdateRelationalDatabaseParameters | StartRelationalDatabase | RebootRelationalDatabase | StopRelationalDatabase | EnableAddOn | DisableAddOn | PutAlarm | GetAlarms | DeleteAlarm | TestAlarm | CreateContactMethod | GetContactMethods | SendContactMethodVerification | DeleteContactMethod

Required: No

resourceName

The resource name.

Type: String

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

Required: No

resourceType

The resource type.

Type: String

Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

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 (e.g., 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 Go
- AWS SDK for Java
- 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 Go
- AWS SDK for Java
- 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 Go
- AWS SDK for Java
- 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
PortInfo

Describes information about the ports on your virtual private server (or instance).

Contents

fromPort

The first port in the range.
Type: Integer
Valid Range: Minimum value of 0. Maximum value of 65535.
Required: No

protocol

The protocol.
Type: String
Valid Values: tcp | all | udp
Required: No

toPort

The last port in the range.
Type: Integer
Valid Range: Minimum value of 0. Maximum value of 65535.
Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- 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 (p. 387) objects

Required: No

continentCode

The continent code (e.g., NA, meaning North America).

Type: String

Required: No

description

The description of the AWS Region (e.g., This region is recommended to serve users in the eastern United States and eastern Canada).

Type: String

Required: No

displayName

The display name (e.g., Ohio).

Type: String

Required: No

name

The region name (e.g., 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 | ca-central-1 | ap-south-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | ap-northeast-2

Required: No

relationalDatabaseAvailabilityZones

The Availability Zones for databases. Follows the format us-east-2a (case-sensitive).

Type: Array of AvailabilityZone (p. 387) objects

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- 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

database

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

database

Describes the hardware of the database.

Type: RelationalDatabaseHardware (p. 478) object
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 (p. 484) 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 (p. 476) 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` (p. 463) objects

Required: No

**pendingModifiedValues**

Describes pending database value modifications.

Type: `PendingModifiedRelationalDatabaseValues` (p. 464) 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: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod

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 Lightsail Dev Guide.

Type: Array of Tag (p. 487) 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 Go
- AWS SDK for Java
- 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

description

The database software of the database blueprint (for example, MySQL).
Type: String
Valid Values: MySQL
Required: No

description

The description of the database engine for the database blueprint.
Type: String
Required: No

description

The database engine version for the database blueprint (for example, 5.7.23).
Type: String
Required: No

description

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++
See Also

- AWS SDK for Go
- AWS SDK for Java
- 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V3
RelationalDatabaseEndpoint

Describes an endpoint for a database.

Contents

address

Specifies the DNS address of the database.

Type: String

Pattern: .*$

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 Go
- AWS SDK for Java
- 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 Go
- AWS SDK for Java
- 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 Go
- AWS SDK for Java
- 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 Go
- AWS SDK for Java
- 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

gine

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 (p. 484) 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: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationStackRecord | Alarm | ContactMethod
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 Lightsail Dev 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 Go
- AWS SDK for Java
- 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 | ca-central-1 | ap-south-1 | ap-southeast-1 | ap-southeast-2 | ap-northeast-1 | ap-northeast-2

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V3
StaticIp

Describes the static IP.

Contents

**arn**

The Amazon Resource Name (ARN) of the static IP (e.g., 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 (e.g., Amazon_Linux-1GB-Ohio-1).

  Type: String
  Pattern: \w[\w\-]*\w
  Required: No

**createdAt**

The timestamp when the static IP was created (e.g., 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 (p. 484) object
  Required: No

**name**

The name of the static IP (e.g., StaticIP-Ohio-EXAMPLE).
resourceType

The resource type (usually StaticIp).

Type: String

Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot | RelationalDatabase | RelationalDatabaseSnapshot | ExportSnapshotRecord | CloudFormationRecord | Alarm | ContactMethod

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 Go
- AWS SDK for Java
- 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 Lightsail Dev 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 Go
- AWS SDK for Java
- 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 Signature Version 4 Signing Process in the Amazon Web Services General Reference.

**Action**

The action to be performed.

Type: string

Required: Yes

**Version**

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

**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 Task 2: Create a String to Sign for Signature Version 4 in the Amazon Web Services General Reference.

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 Handling Dates in Signature Version 4 in the Amazon Web Services General Reference.

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 Security Token Service, go to AWS Services That Work with IAM in the IAM User Guide.

Condition: If you're using temporary security credentials from the AWS Security Token Service, 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 Task 1: Create a Canonical Request For Signature Version 4 in the Amazon Web Services General Reference.

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 Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

**IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

**InternalFailure**

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

**InvalidAction**

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

**InvalidClientTokenId**

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

**InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

**InvalidParameterValue**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

**InvalidQueryParameter**

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

**MalformedQueryString**

The query string contains a syntax error.

HTTP Status Code: 404

**MissingAction**

The request is missing an action or a required parameter.

HTTP Status Code: 400
MissingAuthenticationToken
The request must contain either a valid (registered) AWS access key ID or X.509 certificate.
HTTP Status Code: 403

MissingParameter
A required parameter for the specified action is not supplied.
HTTP Status Code: 400

OptInRequired
The AWS access key ID needs a subscription for the service.
HTTP Status Code: 403

RequestExpired
The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.
HTTP Status Code: 400

ServiceUnavailable
The request has failed due to a temporary failure of the server.
HTTP Status Code: 503

ThrottlingException
The request was denied due to request throttling.
HTTP Status Code: 400

ValidationError
The input fails to satisfy the constraints specified by an AWS service.
HTTP Status Code: 400