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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, 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 June 21, 2018.
Actions

The following actions are supported:

- AllocateStaticIp (p. 4)
- AttachDisk (p. 7)
- AttachInstancesToLoadBalancer (p. 10)
- AttachLoadBalancerTlsCertificate (p. 13)
- AttachStaticIp (p. 16)
- CloseInstancePublicPorts (p. 19)
- CreateDisk (p. 22)
- CreateDiskFromSnapshot (p. 25)
- CreateDiskSnapshot (p. 28)
- CreateDomain (p. 31)
- CreateDomainEntry (p. 34)
- CreateInstances (p. 37)
- CreateInstancesFromSnapshot (p. 41)
- CreateInstanceSnapshot (p. 45)
- CreateKeyPair (p. 48)
- CreateLoadBalancer (p. 51)
- CreateLoadBalancerTlsCertificate (p. 55)
- DeleteDisk (p. 58)
- DeleteDiskSnapshot (p. 61)
- DeleteDomain (p. 64)
- DeleteDomainEntry (p. 67)
- DeleteInstance (p. 70)
- DeleteInstanceSnapshot (p. 73)
- DeleteKeyPair (p. 76)
- DeleteLoadBalancer (p. 79)
- DeleteLoadBalancerTlsCertificate (p. 82)
- DetachDisk (p. 85)
- DetachInstancesFromLoadBalancer (p. 88)
- DetachStaticIp (p. 91)
- DownloadDefaultKeyPair (p. 94)
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• IsVpcPeered (p. 191)
• OpenInstancePublicPorts (p. 193)
• PeerVpc (p. 196)
• PutInstancePublicPorts (p. 198)
• RebootInstance (p. 201)
• ReleaseStaticIp (p. 204)
• StartInstance (p. 207)
• StopInstance (p. 210)
• UnpeerVpc (p. 213)
• UpdateDomainEntry (p. 215)
• UpdateLoadBalancerAttribute (p. 218)
AllocateStaticIp

Allocates a static IP address.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**staticIpName (p. 4)**

The name of the static IP address.

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

The following data is returned in JSON format by the service.
An array of key-value pairs containing information about the static IP address you allocated.

Type: Array of Operation (p. 273) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
AttachDisk

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

**Request Syntax**

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

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**diskName (p. 7)**

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

Type: String

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

Required: Yes

**diskPath (p. 7)**

The disk path to expose to the instance (e.g., /dev/xvdf).

Type: String

Pattern: .*\S.*

Required: Yes

**instanceName (p. 7)**

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

Type: String

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

Required: Yes

**Response Syntax**

```
{
    "operations": [
        {
            "createdAt": number,
            "errorCode": "string",
            "instanceName": "string"
        }
    ]
}
```
Response Elements

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. 7)**

An object describing the API operations.

Type: Array of [Operation (p. 273)] objects

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 285)].

**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 V2
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.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**instanceNames (p. 10)**

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. 10)**

The name of the load balancer.

Type: String

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

Required: Yes

Response Syntax

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

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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. 10)**

An object representing the API operations.

Type: Array of Operation (p. 273) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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.

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HTTP Status Code: 400

**ServiceException**

A general service exception.

HTTP Status Code: 500

**UnauthenticatedException**

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

HTTP Status Code: 400

**See Also**

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

- AWS Command Line Interface
- 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 V2
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 operation with the non-attached certificate, and it will replace the existing one and become the attached certificate.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

certificateName (p. 13)

The name of your SSL/TLS certificate.

Type: String

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

Required: Yes

loadBalancerName (p. 13)

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

```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. 13)

An object representing the API operations.

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. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
AttachStaticIp

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**instanceName (p. 16)**

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

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

**staticIpName (p. 16)**

The name of the static IP.

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

Response Syntax

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

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. 16)

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

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
CloseInstancePublicPorts

Closes the public ports on a specific Amazon Lightsail instance.

**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](#)

The request accepts the following data in JSON format.

**instanceName (p. 19)**

  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. 19)**

  Information about the public port you are trying to close.
  
  Type: PortInfo (p. 277) object
  
  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"
  }
}
```
Response Elements

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. 19)

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

Type: Operation (p. 273) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
CreateDisk

Creates a block storage disk that can be attached to a Lightsail instance in the same Availability Zone (e.g., us-east-2a). The disk is created in the regional endpoint that you send the HTTP request to. For more information, see Regions and Availability Zones in Lightsail.

Request Syntax

```json
{
    "availabilityZone": "string",
    "diskName": "string",
    "sizeInGb": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**availabilityZone (p. 22)**

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. 22)**

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

Type: String

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

Required: Yes

**sizeInGb (p. 22)**

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

Type: Integer

Required: Yes

Response Syntax

```json
{
    "operations": [
        {
        
```
Response Elements

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. 22)

An object describing the API operations.

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
CreateDiskFromSnapshot

Creates a block storage disk from a disk snapshot that can be attached to a Lightsail instance in the same Availability Zone (e.g., us-east-2a). The disk is created in the regional endpoint that you send the HTTP request to. For more information, see Regions and Availability Zones in Lightsail.

Request Syntax

```json
{
   "availabilityZone": "string",
   "diskName": "string",
   "diskSnapshotName": "string",
   "sizeInGb": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

availabilityZone (p. 25)

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.

Type: String

Pattern: .\S.*

Required: Yes

diskName (p. 25)

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

Type: String

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

Required: Yes

diskSnapshotName (p. 25)

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

Type: String

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

Required: Yes

sizeInGb (p. 25)

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

Type: Integer
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. 26)**

An object describing the API operations.

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
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.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

diskName (p. 28)

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

Type: String

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

Required: Yes
diskSnapshotName (p. 28)

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

Response Syntax

```json
{
   "operations": [
   {
      "createdAt": number,
      "errorCode": "string",
      "errorDetails": "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. 28)**

An object describing the API operations.

Type: Array of Operation (p. 273) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
CreateDomain

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

**Request Syntax**

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

**Request Parameters**

For information about the parameters that are common to all actions, see [Common Parameters (p. 283)](#).

The request accepts the following data in JSON format.

**domainName (p. 31)**

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

**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. 31)**

An array of key-value pairs containing information about the domain resource you created.

Type: *Operation (p. 273) object*

## Errors

For information about the errors that are common to all actions, see [Common Errors (p. 285)](https://example.com).

**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 V2
CreateDomainEntry

Creates one of the following entry records associated with the domain: A record, CNAME record, TXT record, or MX record.

**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. 283).

The request accepts the following data in JSON format.

**domainEntry (p. 34)**

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

Type: DomainEntry (p. 236) object

Required: Yes

**domainName (p. 34)**

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,
    "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.

operation (p. 34)

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

Type: Operation (p. 273) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
CreateInstances

Creates one or more Amazon Lightsail virtual private servers, or *instances*. Create instances using active blueprints. 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. Use the get blueprints operation to return a list of available blueprints.

Request Syntax

```
{
    "availabilityZone": "string",
    "blueprintId": "string",
    "bundleId": "string",
    "customImageName": "string",
    "instanceNames": [ "string" ],
    "keyPairName": "string",
    "userData": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**availabilityZone (p. 37)**

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. 37)**

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).

Type: String

Pattern: .*\S.*

Required: Yes

**bundleId (p. 37)**

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. 37)
(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. 37)
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

keyPairName (p. 37)
The name of your key pair.

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

userData (p. 37)
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

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

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. 38)**

An array of key-value pairs containing information about the results of your create instances request.

Type: Array of Operation (p. 273) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
CreateInstancesFromSnapshot

Uses a specific snapshot as a blueprint for creating one or more new instances that are based on that identical configuration.

Request Syntax

```
{
   "attachedDiskMapping": {
      "string": [
         {
            "newDiskName": "string",
            "originalDiskPath": "string"
         }
      ],
   "availabilityZone": "string",
   "bundleId": "string",
   "instanceNames": [ "string" ],
   "instanceSnapshotName": "string",
   "keyPairName": "string",
   "userData": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

attachedDiskMapping (p. 41)

An object containing information about one or more disk mappings.

Type: String to array of DiskMap (p. 231) objects map

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

Required: No

availabilityZone (p. 41)

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. 41)

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.*
instanceNames (p. 41)

The names for your new instances.
Type: Array of strings
Required: Yes

instanceSnapshotName (p. 41)

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

keyPairName (p. 41)

The name for your key pair.
Type: String
Pattern: \w\[\w\-]*\w
Required: No

userData (p. 41)

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"
    }
  ]
}
```
Response Elements

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. 42)

An array of key-value pairs containing information about the results of your create instances from snapshot request.

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
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.

**Request Syntax**

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

**Request Parameters**

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

**instanceName (p. 45)**

The Lightsail instance on which to base your snapshot.

Type: String

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

Required: Yes

**instanceSnapshotName (p. 45)**

The name for your new 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"
    }
  ]
}
```
Response Elements

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 key-value pairs containing information about the results of your create instances snapshot request.

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
CreateKeyPair

Creates an SSH key pair.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**keyPairName** (p. 48)

The name for your new key pair.

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"
    },
    "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"
    }
}
```
Response Elements

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. 48)**

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

Type: `KeyPair (p. 255)` object

**operation (p. 48)**

An array of key-value pairs containing information about the results of your create key pair request.

Type: `Operation (p. 273)` object

**privateKeyBase64 (p. 48)**

A base64-encoded RSA private key.

Type: String

**publicKeyBase64 (p. 48)**

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. 285)].

**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 V2
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.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

certificateAlternativeNames (p. 51)

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. 51)

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. 51)

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. 51)

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. 51)

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. 51)

The name of your 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. 52)

An object containing information about the API operations.

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
CreateLoadBalancerTlsCertificate

Creates a Lightsail load balancer TLS certificate.

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

Request Syntax

```json
{
    "certificateAlternativeNames": [ "string" ],
    "certificateDomainName": "string",
    "certificateName": "string",
    "loadBalancerName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**certificateAlternativeNames (p. 55)**

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. 55)**

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

Type: String

Required: Yes

**certificateName (p. 55)**

The SSL/TLS certificate name.

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

Type: String

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

Required: Yes

**loadBalancerName (p. 55)**

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

Type: String

Pattern: \w[\w\-]*\w
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 object containing information about the API operations.

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
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.

### Request Syntax

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

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](p. 283).

The request accepts the following data in JSON format.

**diskName (p. 58)**

The unique name of the disk you want to delete (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. 58)`

An object describing the API operations.

Type: Array of `Operation (p. 273)` objects

Errors

For information about the errors that are common to all actions, see `Common Errors (p. 285)`.

**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 V2
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.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

diskSnapshotName (p. 61)

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. 61)**

An object describing the API operations.

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
DeleteDomain

Deletes the specified domain recordset and all of its domain records.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**domainName (p. 64)**

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. 64)**

An array of key-value pairs containing information about the results of your delete domain request.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
DeleteDomainEntry

Deletes a specific domain entry.

**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. 283).

The request accepts the following data in JSON format.

**domainEntry (p. 67)**

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

Type: DomainEntry (p. 236) object

Required: Yes

**domainName (p. 67)**

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",
            "regionName": "string"
        },
        "operationDetails": "string",
        "operationType": "string"
    }
}
```
Response Elements

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. 67)**

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

Type: Operation (p. 273) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
DeleteInstance

Deletes a specific Amazon Lightsail 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. 283).

The request accepts the following data in JSON format.

**instanceName (p. 70)**

The name of the instance 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. 70)

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

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
DeleteInstanceSnapshot

Deletes a specific snapshot of a virtual private server (or instance).

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

`instanceSnapshotName` (p. 73)

The name of the snapshot to delete.

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

The following data is returned in JSON format by the service.
operations (p. 73)

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

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
DeleteKeyPair

Deletes a specific SSH key pair.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**keyPairName (p. 76)**

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. 76)

An array of key-value pairs containing information about the results of your delete key pair request.

Type: Operation (p. 273) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
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.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**loadBalancerName (p. 79)**

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
    }
  ]
}
```

Response Elements

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. 79)**

An object describing the API operations.

Type: Array of Operation (p. 273) objects

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
DeleteLoadBalancerTlsCertificate

Deletes an SSL/TLS certificate associated with a Lightsail load balancer.

**Request Syntax**

```json
{
    "certificateName": "string",
    "force": boolean,
    "loadBalancerName": "string"
}
```

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

- **certificateName (p. 82)**
  - The SSL/TLS certificate name.
  - Type: String
  - Pattern: \w\[\w\-]*\w
  - Required: Yes

- **force (p. 82)**
  - 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. 82)**
  - The load balancer name.
  - Type: String
  - Pattern: \w\[\w\-]*\w
  - Required: Yes

**Response Syntax**

```json
{
    "operations": [
        {
            "createdAt": 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. 82)**

An object describing the API operations.

Type: Array of Operation (p. 273) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
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.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

diskName (p. 85)

  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. 85)**

An object describing the API operations.

Type: Array of Operation (p. 273) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
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.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**instanceNames (p. 88)**

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

Required: Yes

**loadBalancerName (p. 88)**

The name of the Lightsail load balancer.

Type: String

Pattern: \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",
    }
  ]
}
```
Response Elements

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. 88)**

An object describing the API operations.

Type: Array of [Operation (p. 273)] objects

**Errors**

For information about the errors that are common to all actions, see [Common Errors (p. 285)].

**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 V2
**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. 283).

The request accepts the following data in JSON format.

**staticIpName** (p. 91)

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. 91)

An array of key-value pairs containing information about the results of your detach static IP request.

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
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. 94)**

A base64-encoded RSA private key.

Type: String

**publicKeyBase64 (p. 94)**

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. 285).

**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 V2
GetActiveNames

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

`pageToken (p. 96)`

A token used for paginating results from your get active names request.

Type: String

Required: No

Response Syntax

```
{
  "activeNames": [ "string" ],
  "nextPageToken": "string"
}
```

Response Elements

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

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

`activeNames (p. 96)`

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

Type: Array of strings

`nextPageToken (p. 96)`

A token used for advancing to the next page of results from your get active names request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).
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 V2
GetBlueprints

Returns the list of available instance images, or blueprints. You can use a blueprint to create a new virtual private server 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.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**includeInactive (p. 99)**

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

Type: Boolean

Required: No

**pageToken (p. 99)**

A token used for advancing to the next page of results from your get blueprints request.

Type: String

Required: No

Response Syntax

```
{
    "blueprints": [
        {
            "blueprintId": "string",
            "description": "string",
            "group": "string",
            "isActive": boolean,
            "licenseUrl": "string",
            "minPower": number,
            "name": "string",
            "platform": "string",
            "productUrl": "string",
            "type": "string",
            "version": "string",
            "versionCode": "string"
        }
    ],
    "nextPageToken": "string"
}
```
Response Elements

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

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

**blueprints (p. 99)**

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

Type: Array of **Blueprint (p. 223)** objects

**nextPageToken (p. 99)**

A token used for advancing to the next page of results from your get blueprints request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
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. 283).

The request accepts the following data in JSON format.

**includeInactive (p. 102)**

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

Type: Boolean

Required: No

**pageToken (p. 102)**

A token used for advancing to the next page of results from your get bundles 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
      }
   ]
   "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. 102)**

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

Type: Array of Bundle (p. 226) objects

**nextPageToken (p. 102)**

A token used for advancing to the next page of results from your get active names request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
GetDisk

Returns information about a specific block storage disk.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

diskName (p. 105)

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

Type: String

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

Required: Yes

Response Syntax

```
{
    "disk": {
        "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. 105)`

An object containing information about the disk.

Type: `Disk (p. 228)` object

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
GetDisks

Returns information about all block storage disks in your AWS account and region.

If you are describing a long list of disks, you can paginate the output to make the list more manageable. You can use the pageToken and nextPageToken values to retrieve the next items in the list.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**pageToken (p. 108)**

A token used for advancing to the next page of results from your GetDisks request.

Type: String

Required: No

Response Syntax

```json
{
    "disks": [
        {
            "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"
        }
    ],
    "nextPageToken": "string"
}
```
Response Elements

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

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

**disks (p. 108)**

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

Type: Array of Disk (p. 228) objects

**nextPageToken (p. 108)**

A token used for advancing to the next page of results from your GetDisks request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
GetDiskSnapshot

Returns information about a specific block storage disk snapshot.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

diskSnapshotName (p. 111)

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

Type: String

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

Required: Yes

Response Syntax

```json
{
    "diskSnapshot": {
        "arn": "string",
        "createdAt": number,
        "fromDiskArn": "string",
        "fromDiskName": "string",
        "location": {
            "availabilityZone": "string",
            "regionName": "string"
        },
        "name": "string",
        "progress": "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.

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**diskSnapshot (p. 111)**

An object containing information about the disk snapshot.

Type: *DiskSnapshot (p. 232)* object

---

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
GetDiskSnapshots

Returns information about all block storage disk snapshots in your AWS account and region.

If you are describing a long list of disk snapshots, you can paginate the output to make the list more manageable. You can use the pageToken and nextPageToken values to retrieve the next items in the list.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**pageToken (p. 114)**

A token used for advancing to the next page of results from your GetDiskSnapshots request.

Type: String

Required: No

Response Syntax

```
{
   "diskSnapshots": [
      {
         "arn": "string",
         "createdAt": number,
         "fromDiskArn": "string",
         "fromDiskName": "string",
         "location": {
            "availabilityZone": "string",
            "regionName": "string"
         },
         "name": "string",
         "progress": "string",
         "resourceType": "string",
         "sizeInGb": number,
         "state": "string",
         "supportCode": "string"
      }
   ],
   "nextPageToken": "string"
}
```

Response Elements

If the action is successful, the service sends back an HTTP 200 response.
The following data is returned in JSON format by the service.

**diskSnapshots (p. 114)**

An array of objects containing information about all block storage disk snapshots.

Type: Array of DiskSnapshot (p. 232) objects

**nextPageToken (p. 114)**

A token used for advancing to the next page of results from your GetDiskSnapshots request.

Type: String

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
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. 283).

The request accepts the following data in JSON format.

domainName (p. 117)

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"
  }
}
```

Response Elements

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. 117)**

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

Type: Domain (p. 234) object

---

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
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. 283).

The request accepts the following data in JSON format.

`pageToken (p. 120)`

A token used for advancing to the next page of results from your get domains 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"
      }
   ],
   "nextPageToken": "string"
}
```
Response Elements

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

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

domains (p. 120)

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

Type: Array of Domain (p. 234) objects

nextPageToken (p. 120)

A token used for advancing to the next page of results from your get active names request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
GetInstance

Returns information about a specific Amazon Lightsail instance, which is a virtual private server.

**Request Syntax**

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

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**instanceName (p. 123)**

The name of the instance.

Type: String

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

Required: Yes

**Response Syntax**

```json
{
  "instance": {
    "arn": "string",
    "blueprintId": "string",
    "blueprintName": "string",
    "bundleId": "string",
    "createdAt": number,
    "hardware": {
      "cpuCount": number,
      "disks": [
        {
          "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",
        }
      ]
    }
  }
}
```
Response Elements

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. 123)

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

Type: Instance (p. 238) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
GetInstanceAccessDetails

Returns temporary SSH keys you can use to connect to a specific virtual private server, or instance.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**instanceName (p. 126)**

The name of the instance to access.

Type: String

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

Required: Yes

**protocol (p. 126)**

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,
      "instanceName": "string",
      "ipAddress": "string",
      "password": "string",
      "passwordData": {
         "ciphertext": "string",
         "keyPairName": "string"
      },
      "privateKey": "string",
      "protocol": "string",
      "username": "string"
   }
}
```
Response Elements

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

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

**accessDetails** *(p. 126)*

- An array of key-value pairs containing information about a get instance access request.
- Type: `InstanceAccessDetails` *(p. 241)* object

Errors

For information about the errors that are common to all actions, see Common Errors *(p. 285)*.

**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 V2
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. 283).

The request accepts the following data in JSON format.

**endTime (p. 129)**

The end time of the time period.

Type: Timestamp

Required: Yes

**instanceName (p. 129)**

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

Type: String

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

Required: Yes

**metricName (p. 129)**

The metric name to get data about.

Type: String

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

Required: Yes

**period (p. 129)**

The time period for which you are requesting data.

Type: Integer

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

Required: Yes
**startTime (p. 129)**

The start time of the time period.

Type: Timestamp

Required: Yes

**statistics (p. 129)**

The instance statistics.

Type: Array of strings

Valid Values: Minimum | Maximum | Sum | Average | SampleCount

Required: Yes

**unit (p. 129)**

The unit. The list of valid values is below.

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. 130)**

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

Type: Array of MetricDatapoint (p. 270) objects
### metricName (p. 130)

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. 285).

**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 V2
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. 283).

The request accepts the following data in JSON format.

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

**Response Syntax**

```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`  
Information about the port states resulting from your request.  
Type: Array of *InstancePortState* (p. 249) objects

**Errors**

For information about the errors that are common to all actions, see [Common Errors](p. 285).
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 V2
GetInstances

Returns information about all Amazon Lightsail virtual private servers, or instances.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**pageToken (p. 136)**

A token used for advancing to the next page of results from your get instances request.

Type: String

Required: No

Response Syntax

```json
{
  "instances": [
    {
      "arn": "string",
      "blueprintId": "string",
      "blueprintName": "string",
      "bundleId": "string",
      "createdAt": number,
      "hardware": {
        "cpuCount": number,
        "disks": [
          {
            "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.

**instances (p. 136)**

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

Type: Array of **Instance (p. 238)** objects

**nextPageToken (p. 136)**

A token used for advancing to the next page of results from your get instances request.

Type: String

**Errors**

For information about the errors that are common to all actions, see **Common Errors (p. 285)**.
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 V2
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. 283).

The request accepts the following data in JSON format.

**instanceSnapshotName (p. 140)**

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": [
            {
                "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"
            }
        ],
        "fromBlueprintId": "string",
        "fromBundleId": "string"
    }
}
```

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"fromInstanceArn": "string",
"fromInstanceName": "string",
"location": {
   "availabilityZone": "string",
   "regionName": "string"
},
"name": "string",
"progress": "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.

**instanceSnapshot (p. 140)**

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

Type: **InstanceSnapshot (p. 251)** object

Errors

For information about the errors that are common to all actions, see **Common Errors (p. 285)**.

**AccessException**

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 V2
GetInstanceSnapshots

Returns all instance snapshots for the user's account.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**pageToken (p. 143)**

A token used for advancing to the next page of results from your get instance snapshots request.

Type: String

Required: No

Response Syntax

```
{
    "instanceSnapshots": [
        {
            "arn": "string",
            "createdAt": number,
            "fromAttachedDisks": [
                {
                    "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"
                }
            ],
            "fromBlueprintId": "string",
            "fromBundleId": "string",
            "fromInstanceArn": "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.

**instanceSnapshots (p. 143)**

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

Type: Array of InstanceSnapshot (p. 251) objects

**nextPageToken (p. 143)**

A token used for advancing to the next page of results from your get instance snapshots request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
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. 283).

The request accepts the following data in JSON format.

**instanceName (p. 146)**

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. 146)**

The state of the instance.

Type:InstanceState (p. 254) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).
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 V2
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. 283).

The request accepts the following data in JSON format.

**keyPairName (p. 149)**

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"
   }
}
```

Response Elements

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. 149)**

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

Type: KeyPair (p. 255) object
Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
GetKeyPairs

Returns information about all key pairs 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. 283).

The request accepts the following data in JSON format.

**pageToken (p. 152)**

A token used for advancing to the next page of results from your get key pairs request.

Type: String

Required: No

**Response Syntax**

```json
{
  "keyPairs": [ 
    { 
      "arn": "string",
      "createdAt": number,
      "fingerprint": "string",
      "location": { 
        "availabilityZone": "string",
        "regionName": "string"
      },
      "name": "string",
      "resourceType": "string",
      "supportCode": "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. 152)**

An array of key-value pairs containing information about the key pairs.
Type: Array of KeyPair (p. 255) objects

nextPageToken (p. 152)

A token used for advancing to the next page of results from your get key pairs request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
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. 283).

The request accepts the following data in JSON format.

**loadBalancerName (p. 155)**

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",
        "tlsCertificateSummaries": [
```

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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.

loadBalancer (p. 155)

An object containing information about your load balancer.

Type: LoadBalancer (p. 257) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
GetLoadBalancerMetricData

Returns information about health metrics for your Lightsail load balancer.

Request Syntax

```json
{
  "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. 283).

The request accepts the following data in JSON format.

**endTime (p. 158)**

The end time of the period.

Type: Timestamp

Required: Yes

**loadBalancerName (p. 158)**

The name of the load balancer.

Type: String

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

Required: Yes

**metricName (p. 158)**

The metric about which you want to return 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 | InstanceResponseTime | RejectedConnectionCount | RequestCount

Required: Yes

*period (p. 158)*

The time period duration for your health data request.
Type: Integer

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

Required: Yes

**startTime (p. 158)**

The start time of the period.

Type: Timestamp

Required: Yes

**statistics (p. 158)**

An array of statistics that you want to request metrics for. Valid values are listed below.

- **SampleCount** - The count (number) of data points used for the statistical calculation.
- **Average** - The value of Sum / SampleCount during the specified period. By comparing this statistic with the Minimum and Maximum, you can determine the full scope of a metric and how close the average use is to the Minimum and Maximum. This comparison helps you to know when to increase or decrease your resources as needed.
- **Sum** - All values submitted for the matching metric added together. This statistic can be useful for determining the total volume of a metric.
- **Minimum** - The lowest value observed during the specified period. You can use this value to determine low volumes of activity for your application.
- **Maximum** - The highest value observed during the specified period. You can use this value to determine high volumes of activity for your application.

Type: Array of strings

Valid Values: Minimum | Maximum | Sum | Average | SampleCount

Required: Yes

**unit (p. 158)**

The unit for the time period request. Valid values are listed below.

Type: String


Required: Yes

**Response Syntax**

```json
{
  "metricData": [
    {
      "average": number,
      "maximum": number,
      "minimum": number,
      "sampleCount": number,
      "sum": number,
      "timestamp": number,
    }
  ]
}
```
Response Elements

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

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

**metricData (p. 160)**

An array of metric datapoint objects.

Type: Array of MetricDatapoint (p. 270) objects

**metricName (p. 160)**

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 | InstanceResponseTime | RejectedConnectionCount | RequestCount

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 285).

**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 V2
GetLoadBalancers

Returns information about all load balancers in an account.

If you are describing a long list of load balancers, you can paginate the output to make the list more manageable. You can use the pageToken and nextPageToken values to retrieve the next items in the list.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**pageToken (p. 164)**

A token used for paginating the results from your GetLoadBalancers request.

Type: String

Required: No

Response Syntax

```json
{
   "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",
         "state": "string"
      }
   ]
}
```
Response Elements

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. 164)**

An array of LoadBalancer objects describing your load balancers.

Type: Array of LoadBalancer (p. 257) objects

**nextPageToken (p. 164)**

A token used for advancing to the next page of results from your GetLoadBalancers request.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
GetLoadBalancerTlsCertificates

Returns information about the TLS certificates that are associated with the specified Lightsail load balancer.

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

You can have a maximum of 2 certificates associated with a Lightsail load balancer. One is active and the other is inactive.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**loadBalancerName (p. 167)**

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

Type: String

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

Required: Yes

Response Syntax

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

tlsCertificates (p. 167)

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

Type: Array of LoadBalancerTlsCertificate (p. 260) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
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. 283).

The request accepts the following data in JSON format.

operationId (p. 170)

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. 170)

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

Type: Operation (p. 273) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
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. 283).

The request accepts the following data in JSON format.

**pageToken (p. 173)**

A token used for advancing to the next page of results from your get operations 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. 173)**

A token used for advancing to the next page of results from your get operations request.

Type: String

operations **(p. 173)**

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

Type: Array of Operation **(p. 273)** objects

---

**Errors**

For information about the errors that are common to all actions, see Common Errors **(p. 285)**.

**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 V2
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. 283).

The request accepts the following data in JSON format.

**pageToken (p. 176)**

A token used for advancing to the next page of results from your get operations for resource request.

Type: String

Required: No

**resourceName (p. 176)**

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

Type: String

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

Required: Yes

**Response Syntax**

```
{
    "nextPageCount": "string",
    "nextPageToken": "string",
    "operations": [
        {
            "createdAt": number,
            "errorCode": "string",
            "errorDetails": "string",
            "id": "string",
            "isTerminal": boolean,
            "location": {
                "availabilityZone": "string",
                "regionName": "string"
            },
            "operationDetails": "string",
            "operationType": "string",
            "resourceName": "string",
            "resourceType": "string"
        }
    ]
}
```
Response Elements

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. 176)

(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 nextPageToken parameter instead.

Type: String

nextPageToken (p. 176)

An identifier that was returned from the previous call to this operation, which can be used to return the next set of items in the list.

Type: String

operations (p. 176)

An array of key-value pairs containing information about the results of your get operations for resource request.

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
GetRegions

Returns a list of all valid regions for Amazon Lightsail. Use the include availability zones parameter to also return the availability zones in a region.

Request Syntax

{
   "includeAvailabilityZones": boolean
}

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

includeAvailabilityZones (p. 179)

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

Response Syntax

{
   "regions": [
      {
         "availabilityZones": [
            {
               "state": "string",
               "zoneName": "string"
            }
         ],
         "continentCode": "string",
         "description": "string",
         "displayName": "string",
         "name": "string"
      }
   ]
}

Response Elements

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

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

regions (p. 179)

An array of key-value pairs containing information about your get regions request.
Type: Array of Region (p. 278) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
GetStaticIp

Returns information about a specific static IP.

**Request Syntax**

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

**Request Parameters**

For information about the parameters that are common to all actions, see [Common Parameters](#).

The request accepts the following data in JSON format.

**staticIpName (p. 182)**

The name of the static IP in Lightsail.

Type: String

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

Required: Yes

**Response Syntax**

```
{
  "staticIp": {
    "arn": "string",
    "attachedTo": "string",
    "createdAt": number,
    "ipAddress": "string",
    "isAttached": boolean,
    "location": {
      "availabilityZone": "string",
      "regionName": "string"
    },
    "name": "string",
    "resourceType": "string",
    "supportCode": "string"
  }
}
```

**Response Elements**

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

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

**staticIp (p. 182)**

An array of key-value pairs containing information about the requested static IP.
Type: StaticIp (p. 281) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
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. 283).

The request accepts the following data in JSON format.

**pageToken (p. 185)**

A token used for advancing to the next page of results from your get static IPs 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. 185)**

A token used for advancing to the next page of results from your get static IPs request.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
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. 283).

The request accepts the following data in JSON format.

**keyPairName (p. 188)**

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. 188)**

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. 188)**

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

Type: Operation (p. 273) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
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. 191)

- 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. 285).

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
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 V2
OpenInstancePublicPorts

Add public ports to an Amazon Lightsail instance.

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. 283).

The request accepts the following data in JSON format.

`instanceName` (p. 193)

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

Type: String

Pattern: [\w\-]*\w

Required: Yes

`portInfo` (p. 193)

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

Type: PortInfo (p. 277) object

Required: Yes

Response Syntax

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

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. 193)**

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

Type: Operation (p. 273) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
PeerVpc

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

Response Syntax

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

Response Elements

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

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

**operation (p. 196)**

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

Type: Operation (p. 273) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
PutInstancePublicPorts

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

Request Syntax

```
{
    "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. 283).

The request accepts the following data in JSON format.

**instanceName (p. 198)**

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

Type: String

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

Required: Yes

**portInfos (p. 198)**

Specifies information about the public port(s).

Type: Array of PortInfo (p. 277) objects

Required: Yes

Response Syntax

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

Response Elements

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

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

**operation (p. 198)**

Describes metadata about the operation you just executed.

Type: Operation (p. 273) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
RebootInstance

Restarts a specific instance. When your Amazon Lightsail instance is finished rebooting, Lightsail assigns a new public IP address. To use the same IP address after restarting, create a static IP address and attach it to the instance.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**instanceName (p. 201)**

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.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
ReleaseStaticIp

Deletes a specific static IP from your account.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**staticIpName (p. 204)**

The name of the static IP 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. 204)

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

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
StartInstance

Starts a specific Amazon Lightsail instance from a stopped state. To restart an instance, use the reboot instance operation.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**instanceName (p. 207)**

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

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. 207)**

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

Type: Array of Operation (p. 273) objects

## Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
StopInstance

Stops a specific Amazon Lightsail instance that is currently running.

**Request Syntax**

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

**Request Parameters**

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

**force (p. 210)**

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. 210)**

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

Type: String

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

Required: Yes

**Response Syntax**

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

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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. 210)**

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

Type: Array of Operation (p. 273) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
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. 213)

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

Type: Operation (p. 273) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 285).

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 V2
UpdateDomainEntry

Updates a domain recordset after it is created.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 283).

The request accepts the following data in JSON format.

domainEntry (p. 215)

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

Type: DomainEntry (p. 236) object

Required: Yes

domainName (p. 215)

The name of the domain recordset to update.

Type: String

Required: Yes

Response Syntax

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

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. 215)**

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

Type: Array of Operation (p. 273) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
UpdateLoadBalancerAttribute

Updates the specified attribute for a load balancer. You can only update one attribute at a time.

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. 283).

The request accepts the following data in JSON format.

attributeName (p. 218)

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. 218)

The value that you want to specify for the attribute name.

Type: String

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

Required: Yes

loadBalancerName (p. 218)

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",
      "errorDescription": "string",
      "id": number,
      "loadBalancerName": "string",
      "requestId": "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. 218)**

An object describing the API operations.

Type: Array of Operation (p. 273) objects

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 285).

**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 V2
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:

- AvailabilityZone (p. 222)
- Blueprint (p. 223)
- Bundle (p. 226)
- Disk (p. 228)
- DiskMap (p. 231)
- DiskSnapshot (p. 232)
- Domain (p. 234)
- DomainEntry (p. 236)
- Instance (p. 238)
- InstanceAccessDetails (p. 241)
- InstanceHardware (p. 243)
- InstanceHealthSummary (p. 244)
- InstanceNetworking (p. 246)
- InstancePortInfo (p. 247)
- InstancePortState (p. 249)
- InstanceSnapshot (p. 251)
- InstanceState (p. 254)
- KeyPair (p. 255)
- LoadBalancer (p. 257)
- LoadBalancerTlsCertificate (p. 260)
- LoadBalancerTlsCertificateDomainValidationOption (p. 265)
- LoadBalancerTlsCertificateDomainValidationRecord (p. 266)
- LoadBalancerTlsCertificateRenewalSummary (p. 268)
- LoadBalancerTlsCertificateSummary (p. 269)
- MetricDatapoint (p. 270)
- MonthlyTransfer (p. 272)
- Operation (p. 273)
- PasswordData (p. 276)
- PortInfo (p. 277)
- Region (p. 278)
- ResourceLocation (p. 280)
- StaticIp (p. 281)
AvailabilityZone

Describes an Availability Zone.

Contents

state

The state of the Availability Zone.

Type: String

Pattern: .*

Required: No

zoneName

The name of the Availability Zone. The format is us-east-2a (case-sensitive).

Type: String

Pattern: .*

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
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 V2
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
**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 V2
Disk

Describes a system disk or an block storage disk.

Contents

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

Required: No

iops

The input/output operations per second (IOPS) of the disk.

Type: Integer
Required: No

**isAttached**

A Boolean value indicating whether the disk is attached.

Type: Boolean

Required: No

**isSystemDisk**

A Boolean value indicating whether this disk is a system disk (has an operating system loaded on it).

Type: Boolean

Required: No

**location**

The AWS Region and Availability Zone where the disk is located.

Type: ResourceLocation (p. 280) 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

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

**See Also**

For 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 V2
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 V2
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 you are creating the disk snapshot.

Type: String

Pattern: \.*\S.*

Required: No

**fromDiskName**

The unique name of the source disk from which you are creating the disk snapshot.

Type: String

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

Required: No

**location**

The AWS Region and Availability Zone where the disk snapshot was created.

Type: `ResourceLocation` (p. 280) 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.
resourceType

The Lightsail resource type (e.g., DiskSnapshot).

Type: String

Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot

sizeInGb

The size of the disk in GB.

Type: Integer

state

The status of the disk snapshot operation.

Type: String

Valid Values: pending | completed | error | unknown

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

See Also

For 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 V2
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. 236) objects

Required: No

**location**

The AWS Region and Availability Zones where the domain recordset was created.

Type: ResourceLocation (p. 280) 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

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 V2
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 (e.g., SOA or NS).

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 V2
Instance

Describes an instance (a virtual private server).

Contents

arn

The Amazon Resource Name (ARN) of the instance (e.g., arn:aws:lightsail:useast-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. 243) 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. 280) object
Required: No

name
The name the user gave the instance (e.g., Amazon_Linux-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. 246) 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

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. 254) 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

**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 V2
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

expiresAt

For SSH access, the date on which the temporary keys expire.

Type: Timestamp

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.

Type: String

Required: No

passwordData

For a Windows Server-based instance, an object with the data you can use to retrieve your password. This is only needed if password is empty and the instance is not new (and therefore the password
is not ready yet). When you create an instance, it can take up to 15 minutes for the instance to be ready.

Type: PasswordData (p. 276) object

Required: No

**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

Required: No

**protocol**

The protocol for these Amazon Lightsail instance access details.

Type: String

Valid Values: `ssh` | `rdp`

Required: No

**username**

The user name to use when logging in to the Amazon Lightsail instance.

Type: String

Required: No

**See Also**

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for Ruby V2
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. 228) 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 V2
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 V2
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. 272) object

Required: No

ports

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

Type: Array of InstancePortInfo (p. 247) 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 V2
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 V2
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:
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for Ruby V2
InstanceSnapshot

Describes the snapshot of the virtual private server, or *instance*.

**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. 228) 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.
location
The region name and availability zone where you created the snapshot.

Type: ResourceLocation (p. 280) object

name
The name of the snapshot.

Type: String

progress
The progress of the snapshot.

Type: String

resourceType
The type of resource (usually InstanceSnapshot).

Type: String

Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot

sizeInGb
The size in GB of the SSD.

Type: Integer

state
The state the snapshot is in.

Type: String

Valid Values: pending | error | available

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.
See Also

For 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 V2
InstanceState

Descries 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 V2
KeyPair

Describes the SSH key pair.

Contents

arn

The Amazon Resource Name (ARN) of the key pair (e.g., arn:aws:lightsail:us-east-2:123456789101:KeyPair/05859e3d-331d-48ba-9034-12345EXAMPLE).

Type: String

Pattern: .*\S.*

Required: No

createdAt

The timestamp when the key pair was created (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. 280) 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

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 V2
LoadBalancer

Describes the Lightsail load balancer.

Contents

**arn**

The Amazon Resource Name (ARN) of the load balancer.

Type: String

Pattern: .*\S.*

Required: No

**configurationOptions**

A string to string map of the configuration options for your load balancer. Valid values are listed below.

Type: String to string map

Valid Keys: HealthCheckPath | SessionStickinessEnabled | SessionStickiness_LB_CookieDurationSeconds

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. 244) 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

Required: No

domain

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. 280) object

Required: No

ame

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

Type: String

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

Required: No

protocol

The protocol you have enabled for your load balancer. Valid values are below.

You can't just have HTTP_HTTPS, but you can have just HTTP.

Type: String

Valid Values: HTTP_HTTPS | HTTP

Required: No

publicPorts

An array of public port settings for your load balancer. For HTTP, use port 80. For HTTPS, use port 443.

Type: Array of integers

Valid Range: Minimum value of 0. Maximum value of 65535.

Required: No

resourceType

The resource type (e.g., LoadBalancer).

Type: String

Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot

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

**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. 269) 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 V2
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. 266) 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: .*\S.*
Required: No

keyAlgorithm
The algorithm that was used to generate the key pair (the public and private key).
Type: String
Pattern: .*\S.*
Required: No

loadBalancerName
The load balancer name where your SSL/TLS certificate is attached.
Type: String
Pattern: \w[\w-]*\w
Required: No

location
The AWS Region and Availability Zone where you created your certificate.
Type: ResourceLocation (p. 280) 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
renewalSummary

An object containing information about the status of Lightsail's managed renewal for the certificate.

Type: LoadBalancerTlsCertificateRenewalSummary (p. 268) object

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

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

revokedAt

The timestamp when the SSL/TLS certificate was revoked.

Type: Timestamp

Required: No

serial

The serial number of the certificate.

Type: String

Pattern: .*\S.*

Required: No
signatureAlgorithm

The algorithm that was used to sign the certificate.

Type: String

Pattern: .*\S.*

Required: No

status

The 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

See Also

For 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 V2
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 V2
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
See Also

- AWS SDK for Java
- AWS SDK for Ruby V2
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. 265) 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 V2
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 V2
MetricDatapoint

Describes the metric data point.

**Contents**

average

The average.
Type: Double
Required: No

maximum

The maximum.
Type: Double
Required: No

minimum

The minimum.
Type: Double
Required: No

sampleCount

The sample count.
Type: Double
Required: No

sum

The sum.
Type: Double
Required: No

timestamp

The timestamp (e.g., 1479816991.349).
Type: Timestamp
Required: No

unit

The unit.
Type: String

See Also

For 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 V2
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 V2
Operation

Describes the API operation.

Contents

createdAt

The timestamp when the operation was initialized (e.g., 1479816991.349).
Type: Timestamp
Required: No

code

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 region and Availability Zone.
Type: ResourceLocation (p. 280) 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


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

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 V2
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 V2
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 V2
Region

Describes the AWS Region.

Contents

availabilityZones

The Availability Zones. Follows the format `us-east-2a` (case-sensitive).

Type: Array of AvailabilityZone (p. 222) 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

See Also

For 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 V2
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 V2
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})\.\(.[0-9]{1,3}\)\(.[0-9]{1,3}\)
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. 280) object
Required: No

name

The name of the static IP (e.g., StaticIP-Ohio-EXAMPLE).
Type: String
Pattern: \w[\w\-\]*\w
Required: No

resourceType

The resource type (usually StaticIp).

Type: String

Valid Values: Instance | StaticIp | KeyPair | InstanceSnapshot | Domain | PeeredVpc | LoadBalancer | LoadBalancerTlsCertificate | Disk | DiskSnapshot

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 V2
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