
Amazon Lightsail

API Reference

API Version 2016-11-28



Amazon Lightsail: API Reference

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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 November 19, 2018.

Actions

The following actions are supported:

- [AllocateStaticIp](#) (p. 5)
- [AttachDisk](#) (p. 8)
- [AttachInstancesToLoadBalancer](#) (p. 11)
- [AttachLoadBalancerTlsCertificate](#) (p. 14)
- [AttachStaticIp](#) (p. 17)
- [CloseInstancePublicPorts](#) (p. 20)
- [CreateDisk](#) (p. 23)
- [CreateDiskFromSnapshot](#) (p. 26)
- [CreateDiskSnapshot](#) (p. 29)
- [CreateDomain](#) (p. 32)
- [CreateDomainEntry](#) (p. 35)
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- [UpdateRelationalDatabaseParameters](#) (p. 290)

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. 375).

The request accepts the following data in JSON format.

staticIpName (p. 5)

The name of the static IP address.

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

[operations \(p. 5\)](#)

An array of key-value pairs containing information about the static IP address you allocated.

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

diskName (p. 8)

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

Type: String

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

Required: Yes

diskPath (p. 8)

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

Type: String

Pattern: `.*\S.*`

Required: Yes

instanceName (p. 8)

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

Type: String

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

Required: Yes

Response Syntax

```
{  
  "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. 8)

An object describing the API operations.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

instanceNames (p. 11)

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

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

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

Type: Array of strings

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

Required: Yes

loadBalancerName (p. 11)

The name of the load balancer.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "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. 11)

An object representing the API operations.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 375\)](#).

The request accepts the following data in JSON format.

`certificateName` (p. 14)

The name of your SSL/TLS certificate.

Type: String

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

Required: Yes

`loadBalancerName` (p. 14)

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

Type: String

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

Required: Yes

Response Syntax

```
{  
  "operations": [  
    {  
      "createdAt": number,  
      "errorCode": "string",  
      "errorDetails": "string",  
      "id": "string",  
      "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 \(p. 14\)](#)

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 \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

instanceName (p. 17)

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

Type: String

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

Required: Yes

staticIpName (p. 17)

The name of the static IP.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "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. 17)

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

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

```
{  
  "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 \(p. 375\)](#).

The request accepts the following data in JSON format.

instanceName (p. 20)

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

Type: String

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

Required: Yes

portInfo (p. 20)

Information about the public port you are trying to close.

Type: [PortInfo \(p. 353\)](#) object

Required: Yes

Response Syntax

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

```
    "status": "string",  
    "statusChangedAt": number  
  }  
}
```

Response Elements

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

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

operation (p. 20)

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

Type: [Operation](#) (p. 347) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

[availabilityZone](#) (p. 23)

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. 23)

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

Type: String

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

Required: Yes

[sizeInGb](#) (p. 23)

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. 23)

An object describing the API operations.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 375\)](#).

The request accepts the following data in JSON format.

[availabilityZone \(p. 26\)](#)

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 \(p. 26\)](#)

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

Type: String

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

Required: Yes

[diskSnapshotName \(p. 26\)](#)

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 \(p. 26\)](#)

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. 27)

An object describing the API operations.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

diskName (p. 29)

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

Type: String

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

Required: Yes

diskSnapshotName (p. 29)

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

```
{  
  "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. 29)

An object describing the API operations.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

domainName (p. 32)

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

```
{  
  "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. 32)

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

Type: [Operation \(p. 347\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

CreateDomainEntry

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

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. 375).

The request accepts the following data in JSON format.

domainEntry (p. 35)

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

Type: [DomainEntry](#) (p. 309) object

Required: Yes

domainName (p. 35)

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

Type: String

Required: Yes

Response Syntax

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

```
"operationType": "string",  
"resourceName": "string",  
"resourceType": "string",  
"status": "string",  
"statusChangedAt": number  
}  
}
```

Response Elements

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

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

operation (p. 35)

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

Type: [Operation \(p. 347\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

[availabilityZone](#) (p. 38)

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. 38)

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. 38)

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. 38)

(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. 38)

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. 38)

The name of your key pair.

Type: String

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

Required: No

userData (p. 38)

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

Note

Depending on the machine image you choose, the command to get software on your instance varies. Amazon Linux and CentOS use `yum`, Debian and Ubuntu use `apt-get`, and FreeBSD uses `pkg`. For a complete list, see the [Dev Guide](#).

Type: String

Required: No

Response Syntax

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

```
    "resourceName": "string",  
    "resourceType": "string",  
    "status": "string",  
    "statusChangedAt": number  
  }  
]  
}
```

Response Elements

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

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

operations (p. 39)

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

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

attachedDiskMapping (p. 42)

An object containing information about one or more disk mappings.

Type: String to array of [DiskMap](#) (p. 304) objects map

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

Required: No

availabilityZone (p. 42)

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. 42)

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

Type: String

Pattern: `.*\S.*`

Required: Yes

instanceNames (p. 42)

The names for your new instances.

Type: Array of strings

Required: Yes

instanceSnapshotName (p. 42)

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. 42)

The name for your key pair.

Type: String

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

Required: No

userData (p. 42)

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

```
{
  "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. 43)

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

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

instanceName (p. 46)

The Lightsail instance on which to base your snapshot.

Type: String

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

Required: Yes

instanceSnapshotName (p. 46)

The name for your new snapshot.

Type: String

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

Required: Yes

Response Syntax

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

```
    "status": "string",  
    "statusChangedAt": number  
  }  
]  
}
```

Response Elements

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

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

operations (p. 46)

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

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

keyPairName (p. 49)

The name for your new key pair.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "keyPair": {  
    "arn": "string",  
    "createdAt": number,  
    "fingerprint": "string",  
    "location": {  
      "availabilityZone": "string",  
      "regionName": "string"  
    },  
    "name": "string",  
    "resourceType": "string",  
    "supportCode": "string"  
  },  
  "operation": {  
    "createdAt": number,  
    "errorCode": "string",  
    "errorDetails": "string",  
    "id": "string",  
    "isTerminal": boolean,  
    "location": {  
      "availabilityZone": "string",  
      "regionName": "string"  
    },  
    "operationDetails": "string",  
    "operationType": "string",  
    "resourceName": "string",  
    "resourceType": "string",  
    "status": "string",  
  }  
}
```

```
    "statusChangedAt": number
  },
  "privateKeyBase64": "string",
  "publicKeyBase64": "string"
}
```

Response Elements

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

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

keyPair (p. 49)

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

Type: [KeyPair](#) (p. 328) object

operation (p. 49)

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

Type: [Operation](#) (p. 347) object

privateKeyBase64 (p. 49)

A base64-encoded RSA private key.

Type: String

publicKeyBase64 (p. 49)

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. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

```
{  
  "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. 375).

The request accepts the following data in JSON format.

[certificateAlternativeNames](#) (p. 52)

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. 52)

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. 52)

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. 52)

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. 52)

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. 52)

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 \(p. 53\)](#)

An object containing information about the API operations.

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

```
{  
  "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. 375).

The request accepts the following data in JSON format.

certificateAlternativeNames (p. 56)

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. 56)

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

Type: String

Required: Yes

certificateName (p. 56)

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. 56)

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

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

operations (p. 57)

An object containing information about the API operations.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

CreateRelationalDatabase

Creates a new database in Amazon Lightsail.

Request Syntax

```
{  
  "availabilityZone": "string",  
  "masterDatabaseName": "string",  
  "masterUsername": "string",  
  "masterUserPassword": "string",  
  "preferredBackupWindow": "string",  
  "preferredMaintenanceWindow": "string",  
  "publiclyAccessible": boolean,  
  "relationalDatabaseBlueprintId": "string",  
  "relationalDatabaseBundleId": "string",  
  "relationalDatabaseName": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

availabilityZone (p. 59)

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

You can get a list of Availability Zones by using the `get_regions` operation. Be sure to add the `include_relational_database_availability_zones` parameter to your request.

Type: String

Required: No

masterDatabaseName (p. 59)

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

Constraints:

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

Type: String

Required: Yes

masterUsername (p. 59)

The master user name for your new database.

Constraints:

- Master user name is required.
- Must contain from 1 to 16 alphanumeric characters.

- The first character must be a letter.
- Cannot be a reserved word for the database engine you choose.

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

Type: String

Required: Yes

masterUserPassword (p. 59)

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

Constraints: Must contain 8 to 41 characters.

Type: String

Required: No

preferredBackupWindow (p. 59)

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

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

Constraints:

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

Example: `16:00-16:30`

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

Type: String

Required: No

preferredMaintenanceWindow (p. 59)

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

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

Constraints:

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

Type: String

Required: No

publiclyAccessible (p. 59)

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

Type: Boolean

Required: No

relationalDatabaseBlueprintId (p. 59)

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

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

Type: String

Required: Yes

relationalDatabaseBundleId (p. 59)

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

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

Type: String

Required: Yes

relationalDatabaseName (p. 59)

The name to use for your new database.

Constraints:

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

Type: String

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

Required: Yes

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. 61)

An object describing the result of your create relational database request.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

CreateRelationalDatabaseFromSnapshot

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

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

Request Syntax

```
{  
  "availabilityZone": "string",  
  "publiclyAccessible": boolean,  
  "relationalDatabaseBundleId": "string",  
  "relationalDatabaseName": "string",  
  "relationalDatabaseSnapshotName": "string",  
  "restoreTime": number,  
  "sourceRelationalDatabaseName": "string",  
  "useLatestRestorableTime": boolean  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

availabilityZone (p. 64)

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

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

Type: String

Required: No

publiclyAccessible (p. 64)

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

Type: Boolean

Required: No

relationalDatabaseBundleId (p. 64)

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

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

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

Type: String

Required: No

relationalDatabaseName (p. 64)

The name to use for your new database.

Constraints:

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

Type: String

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

Required: Yes

relationalDatabaseSnapshotName (p. 64)

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

Type: String

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

Required: No

restoreTime (p. 64)

The date and time to restore your database from.

Constraints:

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

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

Type: Timestamp

Required: No

sourceRelationalDatabaseName (p. 64)

The name of the source database.

Type: String

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

Required: No

useLatestRestorableTime (p. 64)

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

Default: `false`

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

Type: Boolean

Required: No

Response Syntax

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

Response Elements

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

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

operations (p. 66)

An object describing the result of your create relational database from snapshot request.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

CreateRelationalDatabaseSnapshot

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

relationalDatabaseName (p. 68)

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

Type: String

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

Required: Yes

relationalDatabaseSnapshotName (p. 68)

The name for your new database snapshot.

Constraints:

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

Type: String

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

Required: Yes

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. 68)

An object describing the result of your create relational database snapshot request.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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 \(p. 375\)](#).

The request accepts the following data in JSON format.

diskName (p. 71)

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. 71)

An object describing the API operations.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

diskSnapshotName (p. 74)

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

```
{  
  "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 \(p. 74\)](#)

An object describing the API operations.

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

domainName (p. 77)

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. 77)

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

Type: [Operation \(p. 347\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

```
{
  "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. 375).

The request accepts the following data in JSON format.

domainEntry (p. 80)

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

Type: [DomainEntry](#) (p. 309) object

Required: Yes

domainName (p. 80)

The name of the domain entry to delete.

Type: String

Required: Yes

Response Syntax

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



```
"resourceName": "string",  
"resourceType": "string",  
"status": "string",  
"statusChangedAt": number  
}
```

Response Elements

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

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

[operation \(p. 80\)](#)

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

Type: [Operation \(p. 347\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

instanceName (p. 83)

The name of the instance to delete.

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

[operations \(p. 83\)](#)

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

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

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. 375).

The request accepts the following data in JSON format.

instanceSnapshotName (p. 86)

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 \(p. 86\)](#)

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

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

keyPairName (p. 89)

The name of the key pair to delete.

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

[operation \(p. 89\)](#)

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

Type: [Operation \(p. 347\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

loadBalancerName (p. 92)

The name of the load balancer you want to delete.

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

operations (p. 92)

An object describing the API operations.

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 375\)](#).

The request accepts the following data in JSON format.

certificateName (p. 95)

The SSL/TLS certificate name.

Type: String

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

Required: Yes

force (p. 95)

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. 95)

The load balancer name.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "operations": [  
    {  
      "createdAt": number,  
      ...  
    }  
  ]  
}
```

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

Response Elements

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

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

[operations \(p. 95\)](#)

An object describing the API operations.

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

DeleteRelationalDatabase

Deletes a database in Amazon Lightsail.

Request Syntax

```
{  
  "finalRelationalDatabaseSnapshotName": "string",  
  "relationalDatabaseName": "string",  
  "skipFinalSnapshot": boolean  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

[finalRelationalDatabaseSnapshotName](#) (p. 98)

The name of the database snapshot created if `skip_final_snapshot` is `false`, which is the default value for that parameter.

Note

Specifying this parameter and also specifying the `skip_final_snapshot` parameter to `true` results in an error.

Constraints:

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

Type: String

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

Required: No

[relationalDatabaseName](#) (p. 98)

The name of the database that you are deleting.

Type: String

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

Required: Yes

[skipFinalSnapshot](#) (p. 98)

Determines whether a final database snapshot is created before your database is deleted. If `true` is specified, no database snapshot is created. If `false` is specified, a database snapshot is created before your database is deleted.

You must specify the `final_relational_database_snapshot_name` parameter if the `skip_final_snapshot` parameter is `false`.

Default: `false`

Type: Boolean

Required: No

Response Syntax

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

Response Elements

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

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

operations (p. 99)

An object describing the result of your delete relational database request.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

DeleteRelationalDatabaseSnapshot

Deletes a database snapshot in Amazon Lightsail.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

[relationalDatabaseSnapshotName](#) (p. 101)

The name of the database snapshot that you are deleting.

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

[operations \(p. 101\)](#)

An object describing the result of your delete relational database snapshot request.

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

diskName (p. 104)

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. 104)

An object describing the API operations.

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 375\)](#).

The request accepts the following data in JSON format.

instanceNames (p. 107)

An array of strings containing the names of the instances you want to detach from the load balancer.

Type: Array of strings

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

Required: Yes

loadBalancerName (p. 107)

The name of the Lightsail load balancer.

Type: String

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

Required: Yes

Response Syntax

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

```
    "resourceName": "string",  
    "resourceType": "string",  
    "status": "string",  
    "statusChangedAt": number  
  }  
]  
}
```

Response Elements

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

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

operations (p. 107)

An object describing the API operations.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

staticIpName (p. 110)

The name of the static IP to detach from the instance.

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

[operations \(p. 110\)](#)

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

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

```
{  
  "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. 113)

A base64-encoded RSA private key.

Type: String

publicKeyBase64 (p. 113)

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. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

pageToken (p. 115)

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. 115)

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

Type: Array of strings

nextPageToken (p. 115)

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. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

includeInactive (p. 118)

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

Type: Boolean

Required: No

pageToken (p. 118)

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. 118)

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

Type: Array of [Blueprint](#) (p. 296) objects

nextPageToken (p. 118)

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. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

includeInactive (p. 121)

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

Type: Boolean

Required: No

pageToken (p. 121)

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

Type: String

Required: No

Response Syntax

```
{  
  "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. 121)

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

Type: Array of [Bundle](#) (p. 299) objects

nextPageToken (p. 121)

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. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

diskName (p. 124)

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. 124)

An object containing information about the disk.

Type: [Disk \(p. 301\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 375\)](#).

The request accepts the following data in JSON format.

`pageToken` (p. 127)

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

Type: String

Required: No

Response Syntax

```
{  
  "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. 127)

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

Type: Array of [Disk](#) (p. 301) objects

nextPageToken (p. 127)

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. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

diskSnapshotName (p. 130)

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

Type: String

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

Required: Yes

Response Syntax

```
{  
  "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.

[diskSnapshot \(p. 130\)](#)

An object containing information about the disk snapshot.

Type: [DiskSnapshot \(p. 305\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

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. 375).

The request accepts the following data in JSON format.

`pageToken` (p. 133)

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. 133)

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

Type: Array of [DiskSnapshot \(p. 305\)](#) objects

nextPageToken (p. 133)

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 \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

domainName (p. 136)

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

Type: String

Required: Yes

Response Syntax

```
{  
  "domain": {  
    "arn": "string",  
    "createdAt": number,  
    "domainEntries": [  
      {  
        "id": "string",  
        "isAlias": boolean,  
        "name": "string",  
        "options": {  
          "string" : "string"  
        },  
        "target": "string",  
        "type": "string"  
      }  
    ],  
    "location": {  
      "availabilityZone": "string",  
      "regionName": "string"  
    },  
    "name": "string",  
    "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. 136)

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

Type: [Domain \(p. 307\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

pageToken (p. 139)

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

Type: String

Required: No

Response Syntax

```
{  
  "domains": [  
    {  
      "arn": "string",  
      "createdAt": number,  
      "domainEntries": [  
        {  
          "id": "string",  
          "isAlias": boolean,  
          "name": "string",  
          "options": {  
            "string" : "string"  
          },  
          "target": "string",  
          "type": "string"  
        },  
      ],  
      "location": {  
        "availabilityZone": "string",  
        "regionName": "string"  
      },  
      "name": "string",  
      "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. 139)

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

Type: Array of [Domain](#) (p. 307) objects

nextPageToken (p. 139)

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. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

instanceName (p. 142)

The name of the instance.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "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",
```

```

        "supportCode": "string"
      }
    ],
    "ramSizeInGb": number
  },
  "ipv6Address": "string",
  "isStaticIp": boolean,
  "location": {
    "availabilityZone": "string",
    "regionName": "string"
  },
  "name": "string",
  "networking": {
    "monthlyTransfer": {
      "gbPerMonthAllocated": number
    },
    "ports": [
      {
        "accessDirection": "string",
        "accessFrom": "string",
        "accessType": "string",
        "commonName": "string",
        "fromPort": number,
        "protocol": "string",
        "toPort": number
      }
    ]
  },
  "privateIpAddress": "string",
  "publicIpAddress": "string",
  "resourceType": "string",
  "sshKeyName": "string",
  "state": {
    "code": number,
    "name": "string"
  },
  "supportCode": "string",
  "username": "string"
}
}

```

Response Elements

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

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

[instance \(p. 142\)](#)

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

Type: [Instance \(p. 311\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

instanceName (p. 145)

The name of the instance to access.

Type: String

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

Required: Yes

protocol (p. 145)

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. 145)

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

Type: [InstanceAccessDetails](#) (p. 314) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

```
{  
  "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. 375).

The request accepts the following data in JSON format.

endTime (p. 148)

The end time of the time period.

Type: Timestamp

Required: Yes

instanceName (p. 148)

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

Type: String

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

Required: Yes

metricName (p. 148)

The metric name to get data about.

Type: String

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

Required: Yes

period (p. 148)

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

Type: Integer

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

Required: Yes

[startTime \(p. 148\)](#)

The start time of the time period.

Type: Timestamp

Required: Yes

[statistics \(p. 148\)](#)

The instance statistics.

Type: Array of strings

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

Required: Yes

[unit \(p. 148\)](#)

The unit. The list of valid values is below.

Type: String

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

Required: Yes

Response Syntax

```
{
  "metricData": [
    {
      "average": number,
      "maximum": number,
      "minimum": number,
      "sampleCount": number,
      "sum": number,
      "timestamp": number,
      "unit": "string"
    }
  ],
  "metricName": "string"
}
```

Response Elements

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

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

[metricData \(p. 149\)](#)

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

Type: Array of [MetricDatapoint \(p. 344\)](#) objects

metricName (p. 149)

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. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 375\)](#).

The request accepts the following data in JSON format.

instanceName (p. 152)

The name of the instance.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "portStates": [  
    {  
      "fromPort": number,  
      "protocol": "string",  
      "state": "string",  
      "toPort": number  
    }  
  ]  
}
```

Response Elements

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

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

portStates (p. 152)

Information about the port states resulting from your request.

Type: Array of [InstancePortState \(p. 322\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

pageToken (p. 155)

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

Type: String

Required: No

Response Syntax

```
{  
  "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"  
          },  
          {  
            "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"  
          }  
        ],  
        "location": {  
          "availabilityZone": "string",  
          "regionName": "string"  
        },  
        "name": "string",  
        "path": "string",  
        "resourceType": "string",  
        "sizeInGb": number,  
        "state": "string",  
        "supportCode": "string"  
      }  
    }  
  ]  
}
```

```

    ],
    "ramSizeInGb": number
  },
  "ipv6Address": "string",
  "isStaticIp": boolean,
  "location": {
    "availabilityZone": "string",
    "regionName": "string"
  },
  "name": "string",
  "networking": {
    "monthlyTransfer": {
      "gbPerMonthAllocated": number
    },
    "ports": [
      {
        "accessDirection": "string",
        "accessFrom": "string",
        "accessType": "string",
        "commonName": "string",
        "fromPort": number,
        "protocol": "string",
        "toPort": number
      }
    ]
  },
  "privateIpAddress": "string",
  "publicIpAddress": "string",
  "resourceType": "string",
  "sshKeyName": "string",
  "state": {
    "code": number,
    "name": "string"
  },
  "supportCode": "string",
  "username": "string"
}
],
"nextPageToken": "string"
}

```

Response Elements

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

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

instances (p. 155)

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

Type: Array of [Instance](#) (p. 311) objects

nextPageToken (p. 155)

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. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

[instanceSnapshotName](#) (p. 159)

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

Type: String

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

Required: Yes

Response Syntax

```
{  
  "instanceSnapshot": {  
    "arn": "string",  
    "createdAt": number,  
    "fromAttachedDisks": [  
      {  
        "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",  
"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 \(p. 159\)](#)

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

Type: [InstanceSnapshot \(p. 324\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

pageToken (p. 162)

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"  
    }  
  ]  
}
```

```
    "fromInstanceName": "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.

instanceSnapshots (p. 162)

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

Type: Array of [InstanceSnapshot](#) (p. 324) objects

nextPageToken (p. 162)

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. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 375\)](#).

The request accepts the following data in JSON format.

instanceName (p. 165)

The name of the instance to get state information about.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "state": {  
    "code": number,  
    "name": "string"  
  }  
}
```

Response Elements

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

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

state (p. 165)

The state of the instance.

Type: [InstanceState](#) (p. 327) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

keyPairName (p. 168)

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

Type: String

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

Required: Yes

Response Syntax

```
{  
  "keyPair": {  
    "arn": "string",  
    "createdAt": number,  
    "fingerprint": "string",  
    "location": {  
      "availabilityZone": "string",  
      "regionName": "string"  
    },  
    "name": "string",  
    "resourceType": "string",  
    "supportCode": "string"  
  }  
}
```

Response Elements

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. 168)

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

Type: [KeyPair](#) (p. 328) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

pageToken (p. 171)

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

Type: String

Required: No

Response Syntax

```
{  
  "keyPairs": [  
    {  
      "arn": "string",  
      "createdAt": number,  
      "fingerprint": "string",  
      "location": {  
        "availabilityZone": "string",  
        "regionName": "string"  
      },  
      "name": "string",  
      "resourceType": "string",  
      "supportCode": "string"  
    },  
    ...  
  ],  
  "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. 171)

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

Type: Array of [KeyPair](#) (p. 328) objects
[nextPageToken](#) (p. 171)

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. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

GetLoadBalancer

Returns information about the specified Lightsail load balancer.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

loadBalancerName (p. 174)

The name of the load balancer.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "loadBalancer": {  
    "arn": "string",  
    "configurationOptions": {  
      "string": "string"  
    },  
    "createdAt": number,  
    "dnsName": "string",  
    "healthCheckPath": "string",  
    "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": [  

```

```
{
  {
    "isAttached": boolean,
    "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.

loadBalancer (p. 174)

An object containing information about your load balancer.

Type: [LoadBalancer](#) (p. 330) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

```
{  
  "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 \(p. 375\)](#).

The request accepts the following data in JSON format.

[endTime \(p. 177\)](#)

The end time of the period.

Type: Timestamp

Required: Yes

[loadBalancerName \(p. 177\)](#)

The name of the load balancer.

Type: String

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

Required: Yes

[metricName \(p. 177\)](#)

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 \(p. 177\)](#)

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

Type: Integer

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

Required: Yes

startTime (p. 177)

The start time of the period.

Type: Timestamp

Required: Yes

statistics (p. 177)

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. 177)

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

Type: String

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

Required: Yes

Response Syntax

```
{
  "metricData": [
    {
      "average": number,
      "maximum": number,
      "minimum": number,
      "sampleCount": number,
      "sum": number,
      "timestamp": number,
```

```
    "unit": "string"
  },
  "metricName": "string"
}
```

Response Elements

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

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

metricData (p. 179)

An array of metric datapoint objects.

Type: Array of [MetricDatapoint](#) (p. 344) objects

metricName (p. 179)

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 \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

`pageToken` (p. 183)

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

Type: String

Required: No

Response Syntax

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

```
    "supportCode": "string",
    "tlsCertificateSummaries": [
      {
        "isAttached": boolean,
        "name": "string"
      }
    ]
  },
  "nextPageToken": "string"
}
```

Response Elements

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

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

loadBalancers (p. 183)

An array of LoadBalancer objects describing your load balancers.

Type: Array of [LoadBalancer](#) (p. 330) objects

nextPageToken (p. 183)

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. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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 \(p. 375\)](#).

The request accepts the following data in JSON format.

loadBalancerName (p. 186)

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": {  
        "name": "string",  
        "region": "string",  
        "type": "string"  
      }  
    }  
  ]  
}
```

```
    "availabilityZone": "string",
    "regionName": "string"
  },
  "name": "string",
  "notAfter": number,
  "notBefore": number,
  "renewalSummary": {
    "domainValidationOptions": [
      {
        "domainName": "string",
        "validationStatus": "string"
      }
    ],
    "renewalStatus": "string"
  },
  "resourceType": "string",
  "revocationReason": "string",
  "revokedAt": number,
  "serial": "string",
  "signatureAlgorithm": "string",
  "status": "string",
  "subject": "string",
  "subjectAlternativeNames": [ "string" ],
  "supportCode": "string"
}
]
```

Response Elements

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 \(p. 186\)](#)

An array of [LoadBalancerTlsCertificate](#) objects describing your SSL/TLS certificates.

Type: Array of [LoadBalancerTlsCertificate \(p. 333\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

operationId (p. 189)

A GUID used to identify the operation.

Type: String

Pattern: `.*\S.*`

Required: Yes

Response Syntax

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

Response Elements

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

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

[operation \(p. 189\)](#)

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

Type: [Operation \(p. 347\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

`pageToken` (p. 192)

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. 192)

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

Type: String

operations (p. 192)

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

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

[pageToken](#) (p. 195)

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

Type: String

Required: No

[resourceName](#) (p. 195)

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

Type: String

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

Required: Yes

Response Syntax

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

```
    "status": "string",  
    "statusChangedAt": number  
  }  
]  
}
```

Response Elements

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

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

[nextPageCount \(p. 195\)](#)

(Deprecated) Returns the number of pages of results that remain.

Note

In releases prior to June 12, 2017, this parameter returned `null` by the API. It is now deprecated, and the API returns the `next_page_token` parameter instead.

Type: String

[nextPageToken \(p. 195\)](#)

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 \(p. 195\)](#)

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

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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,
  "includeRelationalDatabaseAvailabilityZones": boolean
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

includeAvailabilityZones (p. 198)

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

Type: Boolean

Required: No

includeRelationalDatabaseAvailabilityZones (p. 198)

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

Type: Boolean

Required: No

Response Syntax

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

```
    ]  
  }  
]  
}
```

Response Elements

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

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

[regions \(p. 198\)](#)

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

Type: Array of [Region \(p. 354\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

GetRelationalDatabase

Returns information about a specific database in Amazon Lightsail.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

relationalDatabaseName (p. 201)

The name of the database that you are looking up.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "relationalDatabase": {  
    "arn": "string",  
    "backupRetentionEnabled": boolean,  
    "createdAt": number,  
    "engine": "string",  
    "engineVersion": "string",  
    "hardware": {  
      "cpuCount": number,  
      "diskSizeInGb": number,  
      "ramSizeInGb": number  
    },  
    "latestRestorableTime": number,  
    "location": {  
      "availabilityZone": "string",  
      "regionName": "string"  
    },  
    "masterDatabaseName": "string",  
    "masterEndpoint": {  
      "address": "string",  
      "port": number  
    },  
    "masterUsername": "string",  
    "name": "string",  
    "parameterApplyStatus": "string",  
    "pendingMaintenanceActions": [  
      {  
        "action": "string",
```

```
        "currentApplyDate": number,
        "description": "string"
    },
    ],
    "pendingModifiedValues": {
        "backupRetentionEnabled": boolean,
        "engineVersion": "string",
        "masterUserPassword": "string"
    },
    "preferredBackupWindow": "string",
    "preferredMaintenanceWindow": "string",
    "publiclyAccessible": boolean,
    "relationalDatabaseBlueprintId": "string",
    "relationalDatabaseBundleId": "string",
    "resourceType": "string",
    "secondaryAvailabilityZone": "string",
    "state": "string",
    "supportCode": "string"
}
}
```

Response Elements

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

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

[relationalDatabase \(p. 201\)](#)

An object describing the specified database.

Type: [RelationalDatabase \(p. 356\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

GetRelationalDatabaseBlueprints

Returns a list of available database blueprints in Amazon Lightsail. A blueprint describes the major engine version of a database.

You can use a blueprint ID to create a new database that runs a specific database engine.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

pageToken (p. 204)

A token used for advancing to a specific page of results for your get relational database blueprints request.

Type: String

Required: No

Response Syntax

```
{  
  "blueprints": [  
    {  
      "blueprintId": "string",  
      "engine": "string",  
      "engineDescription": "string",  
      "engineVersion": "string",  
      "engineVersionDescription": "string",  
      "isEngineDefault": boolean  
    }  
  ],  
  "nextPageToken": "string"  
}
```

Response Elements

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

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

blueprints (p. 204)

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

Type: Array of [RelationalDatabaseBlueprint](#) (p. 360) objects
nextPageToken (p. 204)

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

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

GetRelationalDatabaseBundles

Returns the list of bundles that are available in Amazon Lightsail. A bundle describes the performance specifications for a database.

You can use a bundle ID to create a new database with explicit performance specifications.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 375\)](#).

The request accepts the following data in JSON format.

[pageToken \(p. 207\)](#)

A token used for advancing to a specific page of results for your get relational database bundles request.

Type: String

Required: No

Response Syntax

```
{  
  "bundles": [  
    {  
      "bundleId": "string",  
      "cpuCount": number,  
      "diskSizeInGb": number,  
      "isActive": boolean,  
      "isEncrypted": boolean,  
      "name": "string",  
      "price": number,  
      "ramSizeInGb": number,  
      "transferPerMonthInGb": number  
    }  
  ],  
  "nextPageToken": "string"  
}
```

Response Elements

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

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

bundles (p. 207)

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

Type: Array of [RelationalDatabaseBundle \(p. 362\)](#) objects

nextPageToken (p. 207)

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

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

GetRelationalDatabaseEvents

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

durationInMinutes (p. 210)

The number of minutes in the past from which to retrieve events. For example, to get all events from the past 2 hours, enter 120.

Default: 60

The minimum is 1 and the maximum is 14 days (20160 minutes).

Type: Integer

Required: No

pageToken (p. 210)

A token used for advancing to a specific page of results from for get relational database events request.

Type: String

Required: No

relationalDatabaseName (p. 210)

The name of the database from which to get events.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "nextPageToken": "string",  
  "relationalDatabaseEvents": [  
    {  
      "createdAt": number,    }  
  ]  
}
```

```
    "eventCategories": [ "string" ],  
    "message": "string",  
    "resource": "string"  
  }  
]  
}
```

Response Elements

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

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

nextPageToken (p. 210)

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

Type: String

relationalDatabaseEvents (p. 210)

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

Type: Array of [RelationalDatabaseEvent](#) (p. 365) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

GetRelationalDatabaseLogEvents

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

Request Syntax

```
{  
  "endTime": number,  
  "logStreamName": "string",  
  "pageToken": "string",  
  "relationalDatabaseName": "string",  
  "startFromHead": boolean,  
  "startTime": number  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

endTime (p. 213)

The end of the time interval from which to get log events.

Constraints:

- Specified in Universal Coordinated Time (UTC).
- Specified in the Unix time format.

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

Type: Timestamp

Required: No

logStreamName (p. 213)

The name of the log stream.

Use the `get relational database log streams` operation to get a list of available log streams.

Type: String

Required: Yes

pageToken (p. 213)

A token used for advancing to a specific page of results for your get relational database log events request.

Type: String

Required: No

relationalDatabaseName (p. 213)

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

Type: String

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

Required: Yes

startFromHead (p. 213)

Parameter to specify if the log should start from head or tail. If `true` is specified, the log event starts from the head of the log. If `false` is specified, the log event starts from the tail of the log.

Default: `false`

Type: Boolean

Required: No

startTime (p. 213)

The start of the time interval from which to get log events.

Constraints:

- Specified in Universal Coordinated Time (UTC).
- Specified in the Unix time format.

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

Type: Timestamp

Required: No

Response Syntax

```
{
  "nextBackwardToken": "string",
  "nextForwardToken": "string",
  "resourceLogEvents": [
    {
      "createdAt": number,
      "message": "string"
    }
  ]
}
```

Response Elements

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

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

nextBackwardToken (p. 214)

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

Type: String

[nextForwardToken \(p. 214\)](#)

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

Type: String

[resourceLogEvents \(p. 214\)](#)

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

Type: Array of [LogEvent \(p. 343\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

GetRelationalDatabaseLogStreams

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

relationalDatabaseName (p. 217)

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

Type: String

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

Required: Yes

Response Syntax

```
{  
  "logStreams": [ "string" ]  
}
```

Response Elements

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

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

logStreams (p. 217)

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

Type: Array of strings

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

GetRelationalDatabaseMasterUserPassword

Returns the current, previous, or pending versions of the master user password for a Lightsail database.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

[passwordVersion](#) (p. 219)

The password version to return.

Specifying `CURRENT` or `PREVIOUS` returns the current or previous passwords respectively. Specifying `PENDING` returns the newest version of the password that will rotate to `CURRENT`. After the `PENDING` password rotates to `CURRENT`, the `PENDING` password is no longer available.

Default: `CURRENT`

Type: String

Valid Values: `CURRENT` | `PREVIOUS` | `PENDING`

Required: No

[relationalDatabaseName](#) (p. 219)

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

Type: String

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

Required: Yes

Response Syntax

```
{  
  "createdAt": number,  
  "masterUserPassword": "string"  
}
```

Response Elements

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

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

createdAt (p. 219)

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

Type: Timestamp

masterUserPassword (p. 219)

The master user password for the `password` version specified.

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

GetRelationalDatabaseMetricData

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

Request Syntax

```
{  
  "endTime": number,  
  "metricName": "string",  
  "period": number,  
  "relationalDatabaseName": "string",  
  "startTime": number,  
  "statistics": [ "string" ],  
  "unit": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

[endTime](#) (p. 222)

The end of the time interval from which to get metric data.

Constraints:

- Specified in Universal Coordinated Time (UTC).
- Specified in the Unix time format.

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

Type: Timestamp

Required: Yes

[metricName](#) (p. 222)

The name of the metric data to return.

Type: String

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

Required: Yes

[period](#) (p. 222)

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

Type: Integer

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

Required: Yes

[relationalDatabaseName \(p. 222\)](#)

The name of your database from which to get metric data.

Type: String

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

Required: Yes

[startTime \(p. 222\)](#)

The start of the time interval from which to get metric data.

Constraints:

- Specified in Universal Coordinated Time (UTC).
- Specified in the Unix time format.

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

Type: Timestamp

Required: Yes

[statistics \(p. 222\)](#)

The array of statistics for your metric data request.

Type: Array of strings

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

Required: Yes

[unit \(p. 222\)](#)

The unit for the metric data request.

Type: String

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

Required: Yes

Response Syntax

```
{
  "metricData": [
    {
      "average": number,
      "maximum": number,
      "minimum": number,
      "sampleCount": number,
      "sum": number,
      "timestamp": number,
      "unit": "string"
    }
  ]
}
```

```
  ],  
  "metricName": "string"  
}
```

Response Elements

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

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

metricData (p. 223)

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

Type: Array of [MetricDatapoint](#) (p. 344) objects

metricName (p. 223)

The name of the metric.

Type: String

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

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

GetRelationalDatabaseParameters

Returns all of the runtime parameters offered by the underlying database software, or engine, for a specific database in Amazon Lightsail.

In addition to the parameter names and values, this operation returns other information about each parameter. This information includes whether changes require a reboot, whether the parameter is modifiable, the allowed values, and the data types.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 375\)](#).

The request accepts the following data in JSON format.

[pageToken \(p. 226\)](#)

A token used for advancing to a specific page of results for your get relational database parameters request.

Type: String

Required: No

[relationalDatabaseName \(p. 226\)](#)

The name of your database for which to get parameters.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "nextPageToken": "string",  
  "parameters": [  
    {  
      "allowedValues": "string",  
      "applyMethod": "string",  
      "applyType": "string",  
      "dataType": "string",  
      "description": "string",  
      "isModifiable": boolean,  
      "parameterName": "string",  
      "parameterValue": "string"  
    }  
  ]  
}
```

```
} ]
```

Response Elements

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

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

nextPageToken (p. 226)

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

Type: String

parameters (p. 226)

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

Type: Array of [RelationalDatabaseParameter](#) (p. 367) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

GetRelationalDatabases

Returns information about all of your databases in Amazon Lightsail.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 375\)](#).

The request accepts the following data in JSON format.

pageToken (p. 229)

A token used for advancing to a specific page of results for your get relational database request.

Type: String

Required: No

Response Syntax

```
{  
  "nextPageToken": "string",  
  "relationalDatabases": [  
    {  
      "arn": "string",  
      "backupRetentionEnabled": boolean,  
      "createdAt": number,  
      "engine": "string",  
      "engineVersion": "string",  
      "hardware": {  
        "cpuCount": number,  
        "diskSizeInGb": number,  
        "ramSizeInGb": number  
      },  
      "latestRestorableTime": number,  
      "location": {  
        "availabilityZone": "string",  
        "regionName": "string"  
      },  
      "masterDatabaseName": "string",  
      "masterEndpoint": {  
        "address": "string",  
        "port": number  
      },  
      "masterUsername": "string",  
      "name": "string",  
      "parameterApplyStatus": "string",  
      "pendingMaintenanceActions": [  
        {  
          "action": "string",
```

```
        "currentApplyDate": number,
        "description": "string"
    }
],
"pendingModifiedValues": {
    "backupRetentionEnabled": boolean,
    "engineVersion": "string",
    "masterUserPassword": "string"
},
"preferredBackupWindow": "string",
"preferredMaintenanceWindow": "string",
"publiclyAccessible": boolean,
"relationalDatabaseBlueprintId": "string",
"relationalDatabaseBundleId": "string",
"resourceType": "string",
"secondaryAvailabilityZone": "string",
"state": "string",
"supportCode": "string"
}
]
```

Response Elements

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 \(p. 229\)](#)

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

Type: String

[relationalDatabases \(p. 229\)](#)

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

Type: Array of [RelationalDatabase \(p. 356\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

GetRelationalDatabaseSnapshot

Returns information about a specific database snapshot in Amazon Lightsail.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

relationalDatabaseSnapshotName (p. 232)

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

Type: String

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

Required: Yes

Response Syntax

```
{  
  "relationalDatabaseSnapshot": {  
    "arn": "string",  
    "createdAt": number,  
    "engine": "string",  
    "engineVersion": "string",  
    "fromRelationalDatabaseArn": "string",  
    "fromRelationalDatabaseBlueprintId": "string",  
    "fromRelationalDatabaseBundleId": "string",  
    "fromRelationalDatabaseName": "string",  
    "location": {  
      "availabilityZone": "string",  
      "regionName": "string"  
    },  
    "name": "string",  
    "resourceType": "string",  
    "sizeInGb": number,  
    "state": "string",  
    "supportCode": "string"  
  }  
}
```

Response Elements

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

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

[relationalDatabaseSnapshot \(p. 232\)](#)

An object describing the specified database snapshot.

Type: [RelationalDatabaseSnapshot \(p. 369\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

GetRelationalDatabaseSnapshots

Returns information about all of your database snapshots in Amazon Lightsail.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

[pageToken](#) (p. 235)

A token used for advancing to a specific page of results for your get relational database snapshots request.

Type: String

Required: No

Response Syntax

```
{  
  "nextPageToken": "string",  
  "relationalDatabaseSnapshots": [  
    {  
      "arn": "string",  
      "createdAt": number,  
      "engine": "string",  
      "engineVersion": "string",  
      "fromRelationalDatabaseArn": "string",  
      "fromRelationalDatabaseBlueprintId": "string",  
      "fromRelationalDatabaseBundleId": "string",  
      "fromRelationalDatabaseName": "string",  
      "location": {  
        "availabilityZone": "string",  
        "regionName": "string"  
      },  
      "name": "string",  
      "resourceType": "string",  
      "sizeInGb": number,  
      "state": "string",  
      "supportCode": "string"  
    }  
  ]  
}
```

Response Elements

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. 235)

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

Type: String

relationalDatabaseSnapshots (p. 235)

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

Type: Array of [RelationalDatabaseSnapshot](#) (p. 369) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

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](#) (p. 375).

The request accepts the following data in JSON format.

[staticIpName](#) (p. 238)

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. 238)

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

Type: [StaticIp](#) (p. 373) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

pageToken (p. 241)

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

Type: String

Required: No

Response Syntax

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

Response Elements

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

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

nextPageToken (p. 241)

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

Type: String

[staticIps](#) (p. 241)

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

Type: Array of [StaticIp](#) (p. 373) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

keyPairName (p. 244)

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. 244)

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

Type: String

Required: Yes

Response Syntax

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

Response Elements

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

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

[operation \(p. 244\)](#)

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

Type: [Operation \(p. 347\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

```
{  
  "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. 247)

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 \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

OpenInstancePublicPorts

Adds 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 \(p. 375\)](#).

The request accepts the following data in JSON format.

instanceName (p. 249)

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

Type: String

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

Required: Yes

portInfo (p. 249)

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

Type: [PortInfo \(p. 353\)](#) object

Required: Yes

Response Syntax

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

```
    "status": "string",  
    "statusChangedAt": number  
  }  
}
```

Response Elements

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

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

operation (p. 249)

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

Type: [Operation](#) (p. 347) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 252)

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

Type: [Operation \(p. 347\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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 \(p. 375\)](#).

The request accepts the following data in JSON format.

instanceName (p. 254)

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

Type: String

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

Required: Yes

portInfos (p. 254)

Specifies information about the public port(s).

Type: Array of [PortInfo \(p. 353\)](#) 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. 254)

Describes metadata about the operation you just executed.

Type: [Operation \(p. 347\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

instanceName (p. 257)

The name of the instance to reboot.

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

operations (p. 257)

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

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

RebootRelationalDatabase

Restarts a specific database in Amazon Lightsail.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

relationalDatabaseName (p. 260)

The name of your database to reboot.

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

[operations \(p. 260\)](#)

An object describing the result of your reboot relational database request.

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

staticIpName (p. 263)

The name of the static IP to delete.

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

[operations \(p. 263\)](#)

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

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

instanceName (p. 266)

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

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

operations (p. 266)

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

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

StartRelationalDatabase

Starts a specific database from a stopped state in Amazon Lightsail. To restart a database, use the `reboot relational database` operation.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

relationalDatabaseName (p. 269)

The name of your database to start.

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

operations (p. 269)

An object describing the result of your start relational database request.

Type: Array of [Operation \(p. 347\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

force (p. 272)

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. 272)

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

Type: String

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

Required: Yes

Response Syntax

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



```
    "resourceName": "string",  
    "resourceType": "string",  
    "status": "string",  
    "statusChangedAt": number  
  }  
]  
}
```

Response Elements

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

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

operations (p. 272)

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

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

StopRelationalDatabase

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

[relationalDatabaseName](#) (p. 275)

The name of your database to stop.

Type: String

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

Required: Yes

[relationalDatabaseSnapshotName](#) (p. 275)

The name of your new database snapshot to be created before stopping your database.

Type: String

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

Required: No

Response Syntax

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

```
    "statusChangedAt": number
  }
]
```

Response Elements

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

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

operations (p. 275)

An object describing the result of your stop relational database request.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 278)

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

Type: [Operation \(p. 347\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 377\)](#).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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 \(p. 375\)](#).

The request accepts the following data in JSON format.

domainEntry (p. 280)

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

Type: [DomainEntry \(p. 309\)](#) object

Required: Yes

domainName (p. 280)

The name of the domain recordset to update.

Type: String

Required: Yes

Response Syntax

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



```
    "operationDetails": "string",  
    "operationType": "string",  
    "resourceName": "string",  
    "resourceType": "string",  
    "status": "string",  
    "statusChangedAt": number  
  }  
]  
}
```

Response Elements

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

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

operations (p. 280)

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

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 375).

The request accepts the following data in JSON format.

attributeName (p. 283)

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. 283)

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. 283)

The name of the load balancer that you want to modify (e.g., my-load-balancer).

Type: String

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

Required: Yes

Response Syntax

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

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

Response Elements

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

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

operations (p. 283)

An object describing the API operations.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

UpdateRelationalDatabase

Allows the update of one or more attributes of a database in Amazon Lightsail.

Updates are applied immediately, or in cases where the updates could result in an outage, are applied during the database's predefined maintenance window.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

applyImmediately (p. 286)

When `true`, applies changes immediately. When `false`, applies changes during the preferred maintenance window. Some changes may cause an outage.

Default: `false`

Type: Boolean

Required: No

disableBackupRetention (p. 286)

When `true`, disables automated backup retention for your database.

Disabling backup retention deletes all automated database backups. Before disabling this, you may want to create a snapshot of your database using the `create relational database snapshot` operation.

Updates are applied during the next maintenance window because this can result in an outage.

Type: Boolean

Required: No

enableBackupRetention (p. 286)

When `true`, enables automated backup retention for your database.

Updates are applied during the next maintenance window because this can result in an outage.

Type: Boolean

Required: No

masterUserPassword (p. 286)

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

Constraints: Must contain 8 to 41 characters.

Type: String

Required: No

preferredBackupWindow (p. 286)

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

Constraints:

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

Example: `16:00-16:30`

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

Type: String

Required: No

preferredMaintenanceWindow (p. 286)

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

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

Constraints:

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

Type: String

Required: No

publiclyAccessible (p. 286)

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

Type: Boolean

Required: No

relationalDatabaseName (p. 286)

The name of your database to update.

Type: String

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

Required: Yes

rotateMasterUserPassword (p. 286)

When `true`, the master user password is changed to a new strong password generated by Lightsail.

Use the `get relational database master user password` operation to get the new password.

Type: Boolean

Required: No

Response Syntax

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

Response Elements

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

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

operations (p. 288)

An object describing the result of your update relational database request.

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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](#)

UpdateRelationalDatabaseParameters

Allows the update of one or more parameters of a database in Amazon Lightsail.

Parameter updates don't cause outages; therefore, their application is not subject to the preferred maintenance window. However, there are two ways in which parameter updates are applied: `dynamic` or `pending-reboot`. Parameters marked with a `dynamic` apply type are applied immediately. Parameters marked with a `pending-reboot` apply type are applied only after the database is rebooted using the `reboot relational database` operation.

Request Syntax

```
{
  "parameters": [
    {
      "allowedValues": "string",
      "applyMethod": "string",
      "applyType": "string",
      "dataType": "string",
      "description": "string",
      "isModifiable": boolean,
      "parameterName": "string",
      "parameterValue": "string"
    }
  ],
  "relationalDatabaseName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 375).

The request accepts the following data in JSON format.

parameters (p. 290)

The database parameters to update.

Type: Array of [RelationalDatabaseParameter](#) (p. 367) objects

Required: Yes

relationalDatabaseName (p. 290)

The name of your database for which to update parameters.

Type: String

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

Required: Yes

Response Syntax

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

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

Response Elements

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

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

operations (p. 290)

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

Type: Array of [Operation](#) (p. 347) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 377).

AccessDeniedException

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

HTTP Status Code: 400

AccountSetupInProgressException

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

HTTP 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. 295)
- [Blueprint](#) (p. 296)
- [Bundle](#) (p. 299)
- [Disk](#) (p. 301)
- [DiskMap](#) (p. 304)
- [DiskSnapshot](#) (p. 305)
- [Domain](#) (p. 307)
- [DomainEntry](#) (p. 309)
- [Instance](#) (p. 311)
- [InstanceAccessDetails](#) (p. 314)
- [InstanceHardware](#) (p. 316)
- [InstanceHealthSummary](#) (p. 317)
- [InstanceNetworking](#) (p. 319)
- [InstancePortInfo](#) (p. 320)
- [InstancePortState](#) (p. 322)
- [InstanceSnapshot](#) (p. 324)
- [InstanceState](#) (p. 327)
- [KeyPair](#) (p. 328)
- [LoadBalancer](#) (p. 330)
- [LoadBalancerTlsCertificate](#) (p. 333)
- [LoadBalancerTlsCertificateDomainValidationOption](#) (p. 338)
- [LoadBalancerTlsCertificateDomainValidationRecord](#) (p. 339)
- [LoadBalancerTlsCertificateRenewalSummary](#) (p. 341)
- [LoadBalancerTlsCertificateSummary](#) (p. 342)
- [LogEvent](#) (p. 343)
- [MetricDatapoint](#) (p. 344)
- [MonthlyTransfer](#) (p. 346)
- [Operation](#) (p. 347)
- [PasswordData](#) (p. 350)
- [PendingMaintenanceAction](#) (p. 351)
- [PendingModifiedRelationalDatabaseValues](#) (p. 352)
- [PortInfo](#) (p. 353)
- [Region](#) (p. 354)
- [RelationalDatabase](#) (p. 356)
- [RelationalDatabaseBlueprint](#) (p. 360)

- [RelationalDatabaseBundle](#) (p. 362)
- [RelationalDatabaseEndpoint](#) (p. 364)
- [RelationalDatabaseEvent](#) (p. 365)
- [RelationalDatabaseHardware](#) (p. 366)
- [RelationalDatabaseParameter](#) (p. 367)
- [RelationalDatabaseSnapshot](#) (p. 369)
- [ResourceLocation](#) (p. 372)
- [StaticIp](#) (p. 373)

AvailabilityZone

Describes an Availability Zone.

Contents

state

The state of the Availability Zone.

Type: String

Pattern: `.*\S.*`

Required: No

zoneName

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

Type: String

Pattern: `.*\S.*`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby 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

Required: No

price

The price in US dollars (e.g., 5 . 0).

Type: Float

Required: No

ramSizeInGb

The amount of RAM in GB (e.g., 2 . 0).

Type: Float

Required: No

supportedPlatforms

The operating system platform (Linux/Unix-based or Windows Server-based) that the bundle supports. You can only launch a `WINDOWS` bundle on a blueprint that supports the `WINDOWS` platform. `LINUX_UNIX` blueprints require a `LINUX_UNIX` bundle.

Type: Array of strings

Valid Values: `LINUX_UNIX` | `WINDOWS`

Required: No

transferPerMonthInGb

The data transfer rate per month in GB (e.g., 2000).

Type: Integer

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby 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. 372) object

Required: No

name

The unique name of the disk.

Type: String

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

Required: No

path

The disk path.

Type: String

Required: No

resourceType

The Lightsail resource type (e.g., `Disk`).

Type: String

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

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. 372) object

Required: No

name

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

Type: String

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

Required: No

progress

The progress of the disk snapshot operation.

Type: String

Required: No

resourceType

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

Type: String

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

Required: No

sizeInGb

The size of the disk in GB.

Type: Integer

Required: No

state

The status of the disk snapshot operation.

Type: String

Valid Values: `pending` | `completed` | `error` | `unknown`

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about an instance or another resource in Lightsail. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

See Also

For 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. 309) objects

Required: No

location

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

Type: [ResourceLocation](#) (p. 372) object

Required: No

name

The name of the domain.

Type: String

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

Required: No

resourceType

The resource type.

Type: String

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

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:us-east-2:123456789101:Instance/244ad76f-8aad-4741-809f-12345EXAMPLE`).

Type: String

Pattern: `.*\S.*`

Required: No

blueprintId

The blueprint ID (e.g., `os_amlinux_2016_03`).

Type: String

Pattern: `.*\S.*`

Required: No

blueprintName

The friendly name of the blueprint (e.g., `Amazon Linux`).

Type: String

Pattern: `.*\S.*`

Required: No

bundleId

The bundle for the instance (e.g., `micro_1_0`).

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The timestamp when the instance was created (e.g., `1479734909.17`).

Type: Timestamp

Required: No

hardware

The size of the vCPU and the amount of RAM for the instance.

Type: [InstanceHardware](#) (p. 316) 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. 372) 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. 319) object

Required: No

privateIpAddress

The private IP address of the instance.

Type: String

Pattern: ([0-9]{1,3}\.){3}[0-9]{1,3}

Required: No

publicIpAddress

The public IP address of the instance.

Type: String

Pattern: ([0-9]{1,3}\.){3}[0-9]{1,3}

Required: No

resourceType

The type of resource (usually `Instance`).

Type: String

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

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. 327) 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. 350) 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 \(p. 301\)](#) 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

Valid Values: `Lb.RegistrationInProgress` | `Lb.InitialHealthChecking` | `Lb.InternalError` | `Instance.ResponseCodeMismatch` | `Instance.Timeout` | `Instance.FailedHealthChecks` | `Instance.NotRegistered` | `Instance.NotInUse` | `Instance.DeregistrationInProgress` | `Instance.InvalidState` | `Instance.IpUnusable`

Required: No

instanceName

The name of the Lightsail instance for which you are requesting health check data.

Type: String

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

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for 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. 346) object

Required: No

ports

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

Type: Array of [InstancePortInfo](#) (p. 320) 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 \(p. 301\)](#) objects

Required: No

fromBlueprintId

The blueprint ID from which you created the snapshot (e.g., `os_debian_8_3`). A blueprint is a virtual private server (or *instance*) image used to create instances quickly.

Type: String

Required: No

fromBundleId

The bundle ID from which you created the snapshot (e.g., `micro_1_0`).

Type: String

Required: No

fromInstanceArn

The Amazon Resource Name (ARN) of the instance from which the snapshot was created (e.g., `arn:aws:lightsail:us-east-2:123456789101:Instance/64b8404c-ccb1-430b-8daf-12345EXAMPLE`).

Type: String

Pattern: `.*\S.*`

Required: No

fromInstanceName

The instance from which the snapshot was created.

Type: String

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

Required: No

location

The region name and Availability Zone where you created the snapshot.

Type: [ResourceLocation](#) (p. 372) object

Required: No

name

The name of the snapshot.

Type: String

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

Required: No

progress

The progress of the snapshot.

Type: String

Required: No

resourceType

The type of resource (usually `InstanceSnapshot`).

Type: String

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

Required: No

sizeInGb

The size in GB of the SSD.

Type: Integer

Required: No

state

The state the snapshot is in.

Type: String

Valid Values: `pending` | `error` | `available`

Required: No

supportCode

The support code. Include this code in your email to support when you have questions about an instance or another resource in Lightsail. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

See Also

For 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

Describes the virtual private server (or *instance*) status.

Contents

code

The status code for the instance.

Type: Integer

Required: No

name

The state of the instance (e.g., *running* or *pending*).

Type: String

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby 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. 372) object

Required: No

name

The friendly name of the SSH key pair.

Type: String

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

Required: No

resourceType

The resource type (usually `KeyPair`).

Type: String

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

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 \(p. 317\)](#) objects

Required: No

instancePort

The port where the load balancer will direct traffic to your Lightsail instances. For HTTP traffic, it's port 80. For HTTPS traffic, it's port 443.

Type: Integer

Required: No

location

The AWS Region where your load balancer was created (e.g., `us-east-2a`). Lightsail automatically creates your load balancer across Availability Zones.

Type: [ResourceLocation](#) (p. 372) object

Required: No

name

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` | `RelationalDatabase` | `RelationalDatabaseSnapshot`

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. 342) 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. 339) 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. 372) object

Required: No

name

The name of the SSL/TLS certificate (e.g., `my-certificate`).

Type: String

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

Required: No

notAfter

The timestamp when the SSL/TLS certificate expires.

Type: Timestamp

Required: No

notBefore

The timestamp when the SSL/TLS certificate is first valid.

Type: Timestamp

Required: No

renewalSummary

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

Type: [LoadBalancerTlsCertificateRenewalSummary](#) (p. 341) object

Required: No

resourceType

The resource type (e.g., `LoadBalancerTlsCertificate`).

- **Instance** - A Lightsail instance (a virtual private server)
- **StaticIp** - A static IP address
- **KeyPair** - The key pair used to connect to a Lightsail instance
- **InstanceSnapshot** - A Lightsail instance snapshot
- **Domain** - A DNS zone
- **PeeredVpc** - A peered VPC
- **LoadBalancer** - A Lightsail load balancer
- **LoadBalancerTlsCertificate** - An SSL/TLS certificate associated with a Lightsail load balancer
- **Disk** - A Lightsail block storage disk
- **DiskSnapshot** - A block storage disk snapshot

Type: String

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

Required: No

revocationReason

The reason the certificate was revoked. Valid values are below.

Type: String

Valid Values: `UNSPECIFIED` | `KEY_COMPROMISE` | `CA_COMPROMISE` | `AFFILIATION_CHANGED` | `SUPERCEDED` | `CESSATION_OF_OPERATION` | `CERTIFICATE_HOLD` | `REMOVE_FROM_CRL` | `PRIVILEGE_WITHDRAWN` | `A_A_COMPROMISE`

Required: No

revokedAt

The timestamp when the SSL/TLS certificate was revoked.

Type: Timestamp

Required: No

serial

The serial number of the certificate.

Type: String

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](#)

- [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 \(p. 338\)](#) 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](#)

LogEvent

Describes a database log event.

Contents

createdAt

The timestamp when the database log event was created.

Type: Timestamp

Required: No

message

The message of the database log event.

Type: String

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby 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

Valid Values: Seconds | Microseconds | Milliseconds | Bytes | Kilobytes |
Megabytes | Gigabytes | Terabytes | Bits | Kilobits | Megabits | Gigabits
| Terabits | Percent | Count | Bytes/Second | Kilobytes/Second | Megabytes/

Second | Gigabytes/Second | Terabytes/Second | Bits/Second | Kilobits/Second
| Megabits/Second | Gigabits/Second | Terabits/Second | Count/Second | None

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for 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

errorCode

The error code.

Type: String

Required: No

errorDetails

The error details.

Type: String

Required: No

id

The ID of the operation.

Type: String

Pattern: `.*\S.*`

Required: No

isTerminal

A Boolean value indicating whether the operation is terminal.

Type: Boolean

Required: No

location

The region and Availability Zone.

Type: [ResourceLocation](#) (p. 372) object

Required: No

operationDetails

Details about the operation (e.g., Debian-1GB-Ohio-1).

Type: String

Required: No

operationType

The type of operation.

Type: String

Valid Values: `DeleteInstance` | `CreateInstance` | `StopInstance` | `StartInstance` | `RebootInstance` | `OpenInstancePublicPorts` | `PutInstancePublicPorts` | `CloseInstancePublicPorts` | `AllocateStaticIp` | `ReleaseStaticIp` | `AttachStaticIp` | `DetachStaticIp` | `UpdateDomainEntry` | `DeleteDomainEntry` | `CreateDomain` | `DeleteDomain` | `CreateInstanceSnapshot` | `DeleteInstanceSnapshot` | `CreateInstancesFromSnapshot` | `CreateLoadBalancer` | `DeleteLoadBalancer` | `AttachInstancesToLoadBalancer` | `DetachInstancesFromLoadBalancer` | `UpdateLoadBalancerAttribute` | `CreateLoadBalancerTlsCertificate` | `DeleteLoadBalancerTlsCertificate` | `AttachLoadBalancerTlsCertificate` | `CreateDisk` | `DeleteDisk` | `AttachDisk` | `DetachDisk` | `CreateDiskSnapshot` | `DeleteDiskSnapshot` | `CreateDiskFromSnapshot`

Required: No

resourceName

The resource name.

Type: String

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

Required: No

resourceType

The resource type.

Type: String

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

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](#)

PendingMaintenanceAction

Describes a pending database maintenance action.

Contents

action

The type of pending database maintenance action.

Type: String

Pattern: `.*\S.*`

Required: No

currentApplyDate

The effective date of the pending database maintenance action.

Type: Timestamp

Required: No

description

Additional detail about the pending database maintenance action.

Type: String

Pattern: `.*\S.*`

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

PendingModifiedRelationalDatabaseValues

Describes a pending database value modification.

Contents

backupRetentionEnabled

A Boolean value indicating whether automated backup retention is enabled.

Type: Boolean

Required: No

engineVersion

The database engine version.

Type: String

Required: No

masterUserPassword

The password for the master user of the database.

Type: String

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby 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. 295) objects

Required: No

continentCode

The continent code (e.g., `NA`, meaning North America).

Type: String

Required: No

description

The description of the AWS Region (e.g., `This region is recommended to serve users in the eastern United States and eastern Canada`).

Type: String

Required: No

displayName

The display name (e.g., `Ohio`).

Type: String

Required: No

name

The region name (e.g., `us-east-2`).

Type: String

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

Required: No

relationalDatabaseAvailabilityZones

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

Type: Array of [AvailabilityZone](#) (p. 295) 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](#)

RelationalDatabase

Describes a database.

Contents

arn

The Amazon Resource Name (ARN) of the database.

Type: String

Pattern: `.*\S.*`

Required: No

backupRetentionEnabled

A Boolean value indicating whether automated backup retention is enabled for the database.

Type: Boolean

Required: No

createdAt

The timestamp when the database was created. Formatted in Unix time.

Type: Timestamp

Required: No

engine

The database software (for example, `MySQL`).

Type: String

Pattern: `.*\S.*`

Required: No

engineVersion

The database engine version (for example, `5.7.23`).

Type: String

Pattern: `.*\S.*`

Required: No

hardware

Describes the hardware of the database.

Type: [RelationalDatabaseHardware](#) (p. 366) object

Required: No

latestRestorableTime

The latest point in time to which the database can be restored. Formatted in Unix time.

Type: Timestamp

Required: No

location

The Region name and Availability Zone where the database is located.

Type: [ResourceLocation](#) (p. 372) object

Required: No

masterDatabaseName

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

Type: String

Required: No

masterEndpoint

The master endpoint for the database.

Type: [RelationalDatabaseEndpoint](#) (p. 364) object

Required: No

masterUsername

The master user name of the database.

Type: String

Pattern: `.*\S.*`

Required: No

name

The unique name of the database resource in Lightsail.

Type: String

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

Required: No

parameterApplyStatus

The status of parameter updates for the database.

Type: String

Pattern: `.*\S.*`

Required: No

pendingMaintenanceActions

Describes the pending maintenance actions for the database.

Type: Array of [PendingMaintenanceAction](#) (p. 351) objects

Required: No

pendingModifiedValues

Describes pending database value modifications.

Type: [PendingModifiedRelationalDatabaseValues](#) (p. 352) object

Required: No

preferredBackupWindow

The daily time range during which automated backups are created for the database (for example, 16:00–16:30).

Type: String

Pattern: `.*\S.*`

Required: No

preferredMaintenanceWindow

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

In the format `ddd:hh24:mi–ddd:hh24:mi`. For example, `Tue:17:00–Tue:17:30`.

Type: String

Pattern: `.*\S.*`

Required: No

publiclyAccessible

A Boolean value indicating whether the database is publicly accessible.

Type: Boolean

Required: No

relationalDatabaseBlueprintId

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

Type: String

Pattern: `.*\S.*`

Required: No

relationalDatabaseBundleId

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

Type: String

Pattern: `.*\S.*`

Required: No

resourceType

The Lightsail resource type for the database (for example, `RelationalDatabase`).

Type: String

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

Required: No

secondaryAvailabilityZone

Describes the secondary Availability Zone of a high availability database.

The secondary database is used for failover support of a high availability database.

Type: String

Required: No

state

Describes the current state of the database.

Type: String

Pattern: `.*\S.*`

Required: No

supportCode

The support code for the database. Include this code in your email to support when you have questions about a database in Lightsail. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

See Also

For 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](#)

RelationalDatabaseBlueprint

Describes a database image, or blueprint. A blueprint describes the major engine version of a database.

Contents

blueprintId

The ID for the database blueprint.

Type: String

Required: No

engine

The database software of the database blueprint (for example, `MySQL`).

Type: String

Valid Values: `mysql`

Required: No

engineDescription

The description of the database engine for the database blueprint.

Type: String

Required: No

engineVersion

The database engine version for the database blueprint (for example, `5.7.23`).

Type: String

Required: No

engineVersionDescription

The description of the database engine version for the database blueprint.

Type: String

Required: No

isEngineDefault

A Boolean value indicating whether the engine version is the default for the database blueprint.

Type: Boolean

Required: No

See Also

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

- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

RelationalDatabaseBundle

Describes a database bundle. A bundle describes the performance specifications of the database.

Contents

bundleId

The ID for the database bundle.

Type: String

Required: No

cpuCount

The number of virtual CPUs (vCPUs) for the database bundle.

Type: Integer

Required: No

diskSizeInGb

The size of the disk for the database bundle.

Type: Integer

Required: No

isActive

A Boolean value indicating whether the database bundle is active.

Type: Boolean

Required: No

isEncrypted

A Boolean value indicating whether the database bundle is encrypted.

Type: Boolean

Required: No

name

The name for the database bundle.

Type: String

Required: No

price

The cost of the database bundle in US currency.

Type: Float

Required: No

ramSizeInGb

The amount of RAM in GB (for example, 2.0) for the database bundle.

Type: Float

Required: No

transferPerMonthInGb

The data transfer rate per month in GB for the database bundle.

Type: Integer

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

RelationalDatabaseEndpoint

Describes an endpoint for a database.

Contents

address

Specifies the DNS address of the database.

Type: String

Pattern: `.*\S.*`

Required: No

port

Specifies the port that the database is listening on.

Type: Integer

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

RelationalDatabaseEvent

Describes an event for a database.

Contents

createdAt

The timestamp when the database event was created.

Type: Timestamp

Required: No

eventCategories

The category that the database event belongs to.

Type: Array of strings

Required: No

message

The message of the database event.

Type: String

Required: No

resource

The database that the database event relates to.

Type: String

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

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

RelationalDatabaseHardware

Describes the hardware of a database.

Contents

cpuCount

The number of vCPUs for the database.

Type: Integer

Required: No

diskSizeInGb

The size of the disk for the database.

Type: Integer

Required: No

ramSizeInGb

The amount of RAM in GB for the database.

Type: Float

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

RelationalDatabaseParameter

Describes the parameters of a database.

Contents

allowedValues

Specifies the valid range of values for the parameter.

Type: String

Required: No

applyMethod

Indicates when parameter updates are applied.

Can be `immediate` or `pending-reboot`.

Type: String

Required: No

applyType

Specifies the engine-specific parameter type.

Type: String

Required: No

dataType

Specifies the valid data type for the parameter.

Type: String

Required: No

description

Provides a description of the parameter.

Type: String

Required: No

isModifiable

A Boolean value indicating whether the parameter can be modified.

Type: Boolean

Required: No

parameterName

Specifies the name of the parameter.

Type: String

Required: No

parameterValue

Specifies the value of the parameter.

Type: String

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

RelationalDatabaseSnapshot

Describes a database snapshot.

Contents

arn

The Amazon Resource Name (ARN) of the database snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

createdAt

The timestamp when the database snapshot was created.

Type: Timestamp

Required: No

engine

The software of the database snapshot (for example, `MySQL`).

Type: String

Pattern: `.*\S.*`

Required: No

engineVersion

The database engine version for the database snapshot (for example, `5.7.23`).

Type: String

Pattern: `.*\S.*`

Required: No

fromRelationalDatabaseArn

The Amazon Resource Name (ARN) of the database from which the database snapshot was created.

Type: String

Pattern: `.*\S.*`

Required: No

fromRelationalDatabaseBlueprintId

The blueprint ID of the database from which the database snapshot was created. A blueprint describes the major engine version of a database.

Type: String

Required: No

fromRelationalDatabaseBundleId

The bundle ID of the database from which the database snapshot was created.

Type: String

Required: No

fromRelationalDatabaseName

The name of the source database from which the database snapshot was created.

Type: String

Pattern: `.*\S.*`

Required: No

location

The Region name and Availability Zone where the database snapshot is located.

Type: [ResourceLocation](#) (p. 372) object

Required: No

name

The name of the database snapshot.

Type: String

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

Required: No

resourceType

The Lightsail resource type.

Type: String

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

Required: No

sizeInGb

The size of the disk in GB (for example, 32) for the database snapshot.

Type: Integer

Required: No

state

The state of the database snapshot.

Type: String

Pattern: `.*\S.*`

Required: No

supportCode

The support code for the database snapshot. Include this code in your email to support when you have questions about a database snapshot in Lightsail. This code enables our support team to look up your Lightsail information more easily.

Type: String

Required: No

See Also

For 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}\.){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. 372) 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` | `RelationalDatabase` | `RelationalDatabaseSnapshot`

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'THHMMSS'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