
AWS Storage Gateway Service

API Reference

API Version 2013-06-30



AWS Storage Gateway Service: API Reference

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Welcome

AWS Storage Gateway is the service that connects an on-premises software appliance with cloud-based storage to provide seamless and secure integration between an organization's on-premises IT environment and AWS's storage infrastructure. The service enables you to securely upload data to the AWS cloud for cost effective backup and rapid disaster recovery.

Use the following links to get started using the *AWS Storage Gateway Service API Reference*:

- [AWS Storage Gateway Required Request Headers](#): Describes the required headers that you must send with every POST request to AWS Storage Gateway.
- [Signing Requests](#): AWS Storage Gateway requires that you authenticate every request you send; this topic describes how sign such a request.
- [Error Responses](#): Provides reference information about AWS Storage Gateway errors.
- [Operations in AWS Storage Gateway](#): Contains detailed descriptions of all AWS Storage Gateway operations, their request parameters, response elements, possible errors, and examples of requests and responses.
- [AWS Storage Gateway Regions and Endpoints](#): Provides a list of each of the regions and endpoints available for use with AWS Storage Gateway.

This document was last updated on October 31, 2014.

Actions

The following actions are supported:

- [ActivateGateway](#) (p. 4)
- [AddCache](#) (p. 8)
- [AddUploadBuffer](#) (p. 11)
- [AddWorkingStorage](#) (p. 13)
- [CancelArchival](#) (p. 16)
- [CancelRetrieval](#) (p. 18)
- [CreateCachediSCSIVolume](#) (p. 20)
- [CreateSnapshot](#) (p. 23)
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- [DisableGateway](#) (p. 97)
- [ListGateways](#) (p. 99)
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- [ShutdownGateway](#) (p. 116)
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- [UpdateBandwidthRateLimit](#) (p. 121)
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- [UpdateGatewaySoftwareNow](#) (p. 130)
- [UpdateMaintenanceStartTime](#) (p. 133)
- [UpdateSnapshotSchedule](#) (p. 136)
- [UpdateVTLDeviceType](#) (p. 139)

ActivateGateway

This operation activates the gateway you previously deployed on your host. For more information, see [Activate the AWS Storage Gateway](#). In the activation process, you specify information such as the region you want to use for storing snapshots, the time zone for scheduled snapshots the gateway snapshot schedule window, an activation key, and a name for your gateway. The activation process also associates your gateway with your account; for more information, see [UpdateGatewayInformation \(p. 127\)](#).

Note

You must turn on the gateway VM before you can activate your gateway.

Request Syntax

```
{
  "ActivationKey": "string",
  "GatewayName": "string",
  "GatewayRegion": "string",
  "GatewayTimezone": "string",
  "GatewayType": "string",
  "MediumChangerType": "string",
  "TapeDriveType": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

ActivationKey

Your gateway activation key. You can obtain the activation key by sending an HTTP GET request with redirects enabled to the gateway IP address (port 80). The redirect URL returned in the response provides you the activation key for your gateway in the query string parameter `activationKey`. It may also include other activation-related parameters, however, these are merely defaults -- the arguments you pass to the `ActivateGateway` API call determine the actual configuration of your gateway.

Type: String

Length constraints: Minimum length of 1. Maximum length of 50.

Required: Yes

GatewayName

A unique identifier for your gateway. This name becomes part of the gateway Amazon Resource Name (ARN) which is what you use as an input to other operations.

Type: String

Length constraints: Minimum length of 2. Maximum length of 255.

Required: Yes

GatewayRegion

One of the values that indicates the region where you want to store the snapshot backups. The gateway region specified must be the same region as the region in your `Host` header in the request.

For more information about available regions and endpoints for AWS Storage Gateway, see [Regions and Endpoints](#) in the *Amazon Web Services Glossary*.

Valid Values: "us-east-1", "us-west-1", "us-west-2", "eu-west-1", "eu-central-1", "ap-northeast-1", "ap-southeast-1", "ap-southeast-2", "sa-east-1"

Type: String

Length constraints: Minimum length of 1. Maximum length of 25.

Required: Yes

GatewayTimezone

One of the values that indicates the time zone you want to set for the gateway. The time zone is used, for example, for scheduling snapshots and your gateway's maintenance schedule.

Type: String

Length constraints: Minimum length of 3. Maximum length of 10.

Required: Yes

GatewayType

One of the values that defines the type of gateway to activate. The type specified is critical to all later functions of the gateway and cannot be changed after activation. The default value is `STORED`.

Type: String

Length constraints: Minimum length of 2. Maximum length of 20.

Required: No

MediumChangerType

The value that indicates the type of medium changer to use for gateway-VTL. This field is optional.

Valid Values: "STK-L700", "AWS-Gateway-VTL"

Type: String

Length constraints: Minimum length of 2. Maximum length of 50.

Required: No

TapeDriveType

The value that indicates the type of tape drive to use for gateway-VTL. This field is optional.

Valid Values: "IBM-ULT3580-TD5"

Type: String

Length constraints: Minimum length of 2. Maximum length of 50.

Required: No

Response Syntax

```
{
  "GatewayARN": "string"
}
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that activates a gateway.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.ActivateGateway
{
  "ActivationKey": "29AV1-30FV9-VVIUB-NKT0I-LR06V",
  "GatewayName": "mygateway",
  "GatewayTimezone": "GMT-12:00",
  "GatewayRegion": "us-east-1",
  "GatewayType": "STORED",
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```


AddCache

This operation configures one or more gateway local disks as cache for a cached-volume gateway. This operation is supported only for the gateway-cached volume architecture (see [Storage Gateway Concepts](#)).

In the request, you specify the gateway Amazon Resource Name (ARN) to which you want to add cache, and one or more disk IDs that you want to configure as cache.

Request Syntax

```
{
  "DiskIds": [
    "string"
  ],
  "GatewayARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

DiskIds

Type: array of Strings

Required: Yes

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "GatewayARN": "string"
}
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that activates a gateway-stored volumes.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-1/storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2
x-amz-date: 20120425T120000Z
x-amz-target: StorageGateway_20120630.AddCache

{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway"

  "DiskIds": [
    "pci-0000:03:00.0-scsi-0:0:0:0",
    "pci-0000:03:00.0-scsi-0:0:1:0"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rqlgb8vvs0mq17hlgijlq8gllelqeu3kpgg6f0kstauu0
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-Type: application/x-amz-json-1.1
Content-length: 85

{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway"
}
```

AddUploadBuffer

This operation configures one or more gateway local disks as upload buffer for a specified gateway. This operation is supported for both the gateway-stored and gateway-cached volume architectures.

In the request, you specify the gateway Amazon Resource Name (ARN) to which you want to add upload buffer, and one or more disk IDs that you want to configure as upload buffer.

Request Syntax

```
{
  "DiskIds": [
    "string"
  ],
  "GatewayARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

DiskIds

Type: array of Strings

Required: Yes

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "GatewayARN": "string"
}
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

AddWorkingStorage

This operation configures one or more gateway local disks as working storage for a gateway. This operation is supported only for the gateway-stored volume architecture. This operation is deprecated method in cached-volumes API version (20120630). Use `AddUploadBuffer` instead.

Note

Working storage is also referred to as upload buffer. You can also use the [AddUploadBuffer \(p. 11\)](#) operation to add upload buffer to a stored-volume gateway.

In the request, you specify the gateway Amazon Resource Name (ARN) to which you want to add working storage, and one or more disk IDs that you want to configure as working storage.

Request Syntax

```
{
  "DiskIds": [
    "string"
  ],
  "GatewayARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

DiskIds

An array of strings that identify disks that are to be configured as working storage. Each string have a minimum length of 1 and maximum length of 300. You can get the disk IDs from the [ListLocalDisks \(p. 102\)](#) API.

Type: array of Strings

Required: Yes

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
```

```
}  
  "GatewayARN": "string"
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that specifies that two local disks of a gateway are to be configured as working storage.

Sample Request

```
POST / HTTP/1.1  
Host: storagegateway.us-east-1.amazonaws.com  
x-amz-Date: 20120425T120000Z  
Authorization: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG  
Content-type: application/x-amz-json-1.1  
x-amz-target: StorageGateway_20120630.AddWorkingStorage  
{  
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate  
way"  
  "DiskIds": ["pci-0000:03:00.0-scsi-0:0:0:0", "pci-0000:04:00.0-scsi-1:0:0:0"]  
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR0OOKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```


CancelArchival

CancelArchival cancels archiving of a virtual tape to the virtual tape shelf (VTS) after the archiving process is initiated.

Request Syntax

```
{
  "GatewayARN": "string",
  "TapeARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

TapeARN

The Amazon Resource Name (ARN) of the virtual tape you want to cancel archiving for.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "TapeARN": "string"
}
```

Response Elements

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

TapeARN

The Amazon Resource Name (ARN) of the virtual tape for which archiving was canceled.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

CancelRetrieval

Cancel retrieval of a virtual tape from the virtual tape shelf (VTS) to a gateway after the retrieval process is initiated. The virtual tape is returned to the VTS.

Request Syntax

```
{
  "GatewayARN": "string",
  "TapeARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

TapeARN

The Amazon Resource Name (ARN) of the virtual tape you want to cancel retrieval for.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "TapeARN": "string"
}
```

Response Elements

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

TapeARN

The Amazon Resource Name (ARN) of the virtual tape for which retrieval was canceled.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

CreateCachediSCSIVolume

This operation creates a cached volume on a specified cached gateway. This operation is supported only for the gateway-cached volume architecture.

Note

Cache storage must be allocated to the gateway before you can create a cached volume. Use the [AddCache \(p. 8\)](#) operation to add cache storage to a gateway.

In the request, you must specify the gateway, size of the volume in bytes, the iSCSI target name, an IP address on which to expose the target, and a unique client token. In response, AWS Storage Gateway creates the volume and returns information about it such as the volume Amazon Resource Name (ARN), its size, and the iSCSI target ARN that initiators can use to connect to the volume target.

Request Syntax

```
{
  "ClientToken": "string",
  "GatewayARN": "string",
  "NetworkInterfaceId": "string",
  "SnapshotId": "string",
  "TargetName": "string",
  "VolumeSizeInBytes": "number"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

ClientToken

Type: String

Length constraints: Minimum length of 5. Maximum length of 100.

Required: Yes

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

NetworkInterfaceId

Type: String

Required: Yes

SnapshotId

Type: String

Required: No

TargetName

Type: String

Length constraints: Minimum length of 1. Maximum length of 200.

Required: Yes

VolumeSizeInBytes

Type: Long

Required: Yes

Response Syntax

```
{
  "TargetARN": "string",
  "VolumeARN": "string"
}
```

Response Elements

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

TargetARN

Type: String

Length constraints: Minimum length of 50. Maximum length of 800.

VolumeARN

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that specifies that a local disk of a gateway be configured as a cached volume.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-1/storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2
x-amz-date: 20120912T120000Z
x-amz-target: StorageGateway_20120630.CreateCachediSCSIVolume
{
  "ClientToken": "cachedvol112233",
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway",
  "NetworkInterfaceId": "10.1.1.1",
  "TargetName": "myvolume",
  "VolumeSizeInBytes": 536870912000
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rqlgb8vvs0mq17hlgijlq8gllle1qeu3kpgg6f0kstauu0
Date: Wed, 12 Sep 2012 12:00:02 GMT
Content-Type: application/x-amz-json-1.1
Content-length: 263
{
  "TargetARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway/target/iqn.1997-05.com.amazon:myvolume",
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway/volume/vol-1122AABB"
}
```

CreateSnapshot

This operation initiates a snapshot of a volume.

AWS Storage Gateway provides the ability to back up point-in-time snapshots of your data to Amazon Simple Storage (S3) for durable off-site recovery, as well as import the data to an Amazon Elastic Block Store (EBS) volume in Amazon Elastic Compute Cloud (EC2). You can take snapshots of your gateway volume on a scheduled or ad-hoc basis. This API enables you to take ad-hoc snapshot. For more information, see [Working With Snapshots in the AWS Storage Gateway Console](#).

In the CreateSnapshot request you identify the volume by providing its Amazon Resource Name (ARN). You must also provide description for the snapshot. When AWS Storage Gateway takes the snapshot of specified volume, the snapshot and description appears in the AWS Storage Gateway Console. In response, AWS Storage Gateway returns you a snapshot ID. You can use this snapshot ID to check the snapshot progress or later use it when you want to create a volume from a snapshot.

Note

To list or delete a snapshot, you must use the Amazon EC2 API. For more information, .

Request Syntax

```
{
  "SnapshotDescription": "string",
  "VolumeARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

SnapshotDescription

Textual description of the snapshot that appears in the Amazon EC2 console, Elastic Block Store snapshots panel in the **Description** field, and in the AWS Storage Gateway snapshot **Details** pane, **Description** field

Type: String

Length constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

VolumeARN

The Amazon Resource Name (ARN) of the volume. Use the [ListVolumes \(p. 108\)](#) operation to return a list of gateway volumes.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{  
  "SnapshotId": "string",  
  "VolumeARN": "string"  
}
```

Response Elements

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

SnapshotId

The snapshot ID that is used to refer to the snapshot in future operations such as describing snapshots (Amazon Elastic Compute Cloud API `DescribeSnapshots`) or creating a volume from a snapshot (`CreateStorediSCSIVolume` (p. 29)).

Type: String

VolumeARN

The Amazon Resource Name (ARN) of the volume of which the snapshot was taken.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 155).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example sends a `CreateSnapshot` request to take snapshot of the specified an example volume.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.CreateSnapshot
{
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/volume/vol-1122AABB",
  "SnapshotDescription": "snapshot description"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 128
{
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/volume/vol-1122AABB",
  "SnapshotId": "snap-78e22663"
}
```

CreateSnapshotFromVolumeRecoveryPoint

This operation initiates a snapshot of a gateway from a volume recovery point. This operation is supported only for the gateway-cached volume architecture (see).

A volume recovery point is a point in time at which all data of the volume is consistent and from which you can create a snapshot. To get a list of volume recovery point for gateway-cached volumes, use [ListVolumeRecoveryPoints](#) (p. 105).

In the `CreateSnapshotFromVolumeRecoveryPoint` request, you identify the volume by providing its Amazon Resource Name (ARN). You must also provide a description for the snapshot. When AWS Storage Gateway takes a snapshot of the specified volume, the snapshot and its description appear in the AWS Storage Gateway console. In response, AWS Storage Gateway returns you a snapshot ID. You can use this snapshot ID to check the snapshot progress or later use it when you want to create a volume from a snapshot.

Note

To list or delete a snapshot, you must use the Amazon EC2 API. For more information, in *Amazon Elastic Compute Cloud API Reference*.

Request Syntax

```
{
  "SnapshotDescription": "string",
  "VolumeARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters](#) (p. 153).

The request accepts the following data in JSON format.

SnapshotDescription

Type: String

Length constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

VolumeARN

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
```

```
"SnapshotId": "string",  
"VolumeARN": "string",  
"VolumeRecoveryPointTime": "string"  
}
```

Response Elements

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

SnapshotId

Type: String

VolumeARN

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

VolumeRecoveryPointTime

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example sends a CreateSnapshotFromVolumeRecoveryPoint request to take snapshot of the specified an example volume.

Sample Request

```
POST / HTTP/1.1  
Host: storagegateway.us-east-1.amazonaws.com  
Content-Type: application/x-amz-json-1.1  
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-  
east-1/storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-  
amz-target, Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066ab  
dd4bf4bbcf05bd9f2f8fe2  
x-amz-date: 20120912T120000Z
```

```
x-amz-target: StorageGateway_20120630.CreateSnapshotFromVolumeRecoveryPoint

{
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/volume/vol-1122AABB",
  "SnapshotDescription": "snapshot description"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rqlgb8vvs0mq17hlgijlq8gllelqeu3kpgg6f0kstauu0
Date: Wed, 12 Sep 2012 12:00:02 GMT
Content-Type: application/x-amz-json-1.1
Content-length: 137

{
  "SnapshotId": "snap-78e22663",
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/volume/vol-1122AABB",
  "VolumeRecoveryPointTime": "2012-06-30T10:10:10.000Z"
}
```

CreateStorediSCSIVolume

This operation creates a volume on a specified gateway. This operation is supported only for the gateway-stored volume architecture.

The size of the volume to create is inferred from the disk size. You can choose to preserve existing data on the disk, create volume from an existing snapshot, or create an empty volume. If you choose to create an empty gateway volume, then any existing data on the disk is erased.

In the request you must specify the gateway and the disk information on which you are creating the volume. In response, AWS Storage Gateway creates the volume and returns volume information such as the volume Amazon Resource Name (ARN), its size, and the iSCSI target ARN that initiators can use to connect to the volume target.

Request Syntax

```
{
  "DiskId": "string",
  "GatewayARN": "string",
  "NetworkInterfaceId": "string",
  "PreserveExistingData": "boolean",
  "SnapshotId": "string",
  "TargetName": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

DiskId

The unique identifier for the gateway local disk that is configured as a stored volume. Use [ListLocalDisks](#) to list disk IDs for a gateway.

Type: String

Length constraints: Minimum length of 1. Maximum length of 300.

Required: Yes

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

NetworkInterfaceId

The network interface of the gateway on which to expose the iSCSI target. Only IPv4 addresses are accepted. Use [DescribeGatewayInformation \(p. 67\)](#) to get a list of the network interfaces available on a gateway.

Valid Values: A valid IP address.

Type: String

Required: Yes

PreserveExistingData

Specify this field as true if you want to preserve the data on the local disk. Otherwise, specifying this field as false creates an empty volume.

Valid Values: true, false

Type: Boolean

Required: Yes

SnapshotId

The snapshot ID (e.g. "snap-1122aabb") of the snapshot to restore as the new stored volume. Specify this field if you want to create the iSCSI storage volume from a snapshot otherwise do not include this field. To list snapshots for your account use [DescribeSnapshots](#) in the *Amazon Elastic Compute Cloud API Reference*.

Type: String

Required: No

TargetName

The name of the iSCSI target used by initiators to connect to the target and as a suffix for the target ARN. For example, specifying `TargetName` as *myvolume* results in the target ARN of `arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway/target/iqn.1997-05.com.amazon:myvolume`. The target name must be unique across all volumes of a gateway.

Type: String

Length constraints: Minimum length of 1. Maximum length of 200.

Required: Yes

Response Syntax

```
{
  "TargetARN": "string",
  "VolumeARN": "string",
  "VolumeSizeInBytes": "number"
}
```

Response Elements

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

TargetARN

The Amazon Resource Name (ARN) of the volume target that includes the iSCSI name that initiators can use to connect to the target.

Type: String

Length constraints: Minimum length of 50. Maximum length of 800.

VolumeARN

The Amazon Resource Name (ARN) of the configured volume.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

VolumeSizeInBytes

The size of the volume in bytes.

Type: Long

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that specifies that a local disk of a gateway be configured as a volume.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.CreateStorediSCSIVolume
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way",
  "DiskId": "pci-0000:03:00.0-scsi-0:0:0:0",
  "PreserveExistingData": true,
  "TargetName": "myvolume",
  "NetworkInterfaceId": "10.1.1.1"
}
```


Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 215
{
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/volume/vol-1122AABB",
  "VolumeSizeInBytes": 1099511627776,
  "TargetARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/target/iqn.1997-05.com.amazon:myvolume"
}
```

CreateTapes

Creates one or more virtual tapes. You write data to the virtual tapes and then archive the tapes.

Note

Cache storage must be allocated to the gateway before you can create virtual tapes. Use the [AddCache \(p. 8\)](#) operation to add cache storage to a gateway.

Request Syntax

```
{
  "ClientToken": "string",
  "GatewayARN": "string",
  "NumTapesToCreate": "number",
  "TapeBarcodePrefix": "string",
  "TapeSizeInBytes": "number"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

ClientToken

A unique identifier that you use to retry a request. If you retry a request, use the same `ClientToken` you specified in the initial request.

Note

Using the same `ClientToken` prevents creating the tape multiple times.

Type: String

Length constraints: Minimum length of 5. Maximum length of 100.

Required: Yes

GatewayARN

The unique Amazon Resource Name(ARN) that represents the gateway to associate the virtual tapes with. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

NumTapesToCreate

The number of virtual tapes you want to create.

Type: Number

Required: Yes

TapeBarcodePrefix

A prefix you append to the barcode of the virtual tape you are creating. This makes a barcode unique.

Note

The prefix must be 1 to 4 characters in length and must be upper-case letters A-Z.

Type: String

Length constraints: Minimum length of 1. Maximum length of 4.

Required: Yes

TapeSizeInBytes

The size, in bytes, of the virtual tapes you want to create.

Note

The size must be gigabyte (1024*1024*1024 byte) aligned.

Type: Long

Required: Yes

Response Syntax

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

Response Elements

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

TapeARNs

A list of unique Amazon Resource Named (ARN) the represents the virtual tapes that were created.

Type: array of Strings

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Create tapes in gateway-VTL

In the following request you add three virtual tape cartridges, 100 GB each, to the gateway-VTL (ExampleGatewayVTL). The tapes appear in the gateway's VTL. In the request you set the tape's barcode prefix to "TEST".

Sample Request

```
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/ExampleGatewayVTL",
  "TapeSizeInBytes": 107374182400,
  "ClientToken": "77777",
  "NumTapesToCreate": 3,
  "TapeBarcodePrefix": "TEST"
}
```

Sample Response

```
{ "TapeARNs":
  [ "arn:aws:storagegateway:us-east-1:999999999999:tape/TEST38A29D",
    "arn:aws:storagegateway:us-east-1:204469490176:tape/TEST3AA29F",
    "arn:aws:storagegateway:us-east-1:204469490176:tape/TEST3BA29E" ]
}
```

DeleteBandwidthRateLimit

This operation deletes the bandwidth rate limits of a gateway. You can delete either the upload and download bandwidth rate limit, or you can delete both. If you delete only one of the limits, the other limit remains unchanged. To specify which gateway to work with, use the Amazon Resource Name (ARN) of the gateway in your request.

Request Syntax

```
{
  "BandwidthType": "string",
  "GatewayARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

BandwidthType

Type: String

Length constraints: Minimum length of 3. Maximum length of 25.

Required: Yes

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "GatewayARN": "string"
}
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that deletes both of the bandwidth rate limits of a gateway.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DeleteBandwidthRateLimit
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way",
  "BandwidthType": "All"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
```

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```
"GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate  
way"  
}
```

DeleteChapCredentials

This operation deletes Challenge-Handshake Authentication Protocol (CHAP) credentials for a specified iSCSI target and initiator pair.

Request Syntax

```
{
  "InitiatorName": "string",
  "TargetARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

InitiatorName

The iSCSI initiator that connects to the target.

Type: String

Length constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

TargetARN

The Amazon Resource Name (ARN) of the iSCSI volume target. Use the [DescribeStorediSCSIVolumes \(p. 76\)](#) operation to return to retrieve the TargetARN for specified VolumeARN.

Type: String

Length constraints: Minimum length of 50. Maximum length of 800.

Required: Yes

Response Syntax

```
{
  "InitiatorName": "string",
  "TargetARN": "string"
}
```

Response Elements

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

InitiatorName

The iSCSI initiator that connects to the target.

Type: String

Length constraints: Minimum length of 1. Maximum length of 255.

TargetARN

The Amazon Resource Name (ARN) of the target.

Type: String

Length constraints: Minimum length of 50. Maximum length of 800.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that deletes the CHAP credentials for an iSCSI target myvolume.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DeleteChapCredentials
{
  "TargetARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/target/iqn.1997-05.com.amazon:myvolume",
  "InitiatorName": "iqn.1991-05.com.microsoft:computername.domain.example.com"
}
```

Sample Response

```
HTTP/1.1 200 OK
```

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```
x-amzn-RequestId: CSOC7TJPLR0OOKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 161
{
  "TargetARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/target/iqn.1997-05.com.amazon:myvolume",
  "InitiatorName": "iqn.1991-05.com.microsoft:computername.domain.example.com"
}
```

DeleteGateway

This operation deletes a gateway. To specify which gateway to delete, use the Amazon Resource Name (ARN) of the gateway in your request. The operation deletes the gateway; however, it does not delete the gateway virtual machine (VM) from your host computer.

After you delete a gateway, you cannot reactivate it. Completed snapshots of the gateway volumes are not deleted upon deleting the gateway, however, pending snapshots will not complete. After you delete a gateway, your next step is to remove it from your environment.

Important

You no longer pay software charges after the gateway is deleted; however, your existing Amazon EBS snapshots persist and you will continue to be billed for these snapshots. You can choose to remove all remaining Amazon EBS snapshots by canceling your Amazon EC2 subscription. If you prefer not to cancel your Amazon EC2 subscription, you can delete your snapshots using the Amazon EC2 console. For more information, see the [AWS Storage Gateway Detail Page](#).

Request Syntax

```
{
  "GatewayARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "GatewayARN": "string"
}
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that deactivates a gateway.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DeleteGateway
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
```

```
way"  
}
```

DeleteSnapshotSchedule

This operation deletes a snapshot of a volume.

You can take snapshots of your gateway volumes on a scheduled or ad-hoc basis. This API enables you to delete a snapshot schedule for a volume. For more information, see [Working with Snapshots](#). In the `DeleteSnapshotSchedule` request, you identify the volume by providing its Amazon Resource Name (ARN).

Note

To list or delete a snapshot, you must use the Amazon EC2 API. in *Amazon Elastic Compute Cloud API Reference*.

Request Syntax

```
{
  "VolumeARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

VolumeARN

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "VolumeARN": "string"
}
```

Response Elements

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

VolumeARN

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example...

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-1/storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2
x-amz-date: 20120912T120000Z
x-amz-target: StorageGateway_20120630.DeleteSnapshotSchedule

{
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway/volume/vol-1122AABB"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rqlgb8vvs0mq17hlgijlq8gllle1qeu3kpgg6f0kstauu0
Date: Wed, 12 Sep 2012 12:00:02 GMT
Content-Type: application/x-amz-json-1.1
Content-length: 137

{
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway/volume/vol-1122AABB"
}
```



DeleteTape

Deletes the specified virtual tape.

Request Syntax

```
{
  "GatewayARN": "string",
  "TapeARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The unique Amazon Resource Name (ARN) of the gateway that the virtual tape to delete is associated with. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

TapeARN

The Amazon Resource Name (ARN) of the virtual tape to delete.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "TapeARN": "string"
}
```

Response Elements

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

TapeARN

The Amazon Resource Name (ARN) of the deleted virtual tape.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Delete a tape from a gateway

The following example deletes a tape from a gateway-VTL (ExampleGatewayVTL). The request identifies the tape by its ARN. The operation deletes the tapes from the specified gateway's virtual tape library (VTL). In the response AWS Storage Gateway returns the ARN of deleted tape.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20131025T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9EXAMPLE
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DeleteTape
{"GatewayARN": "arn:aws:storagegateway:us-east-1:204469490176:gateway/ExampleGatewayVTL",
 "TapeARN": "arn:aws:storagegateway:us-east-1:204469490176:tape/TEST05A2A0" }
```

Sample Response

```
{"TapeARN": "arn:aws:storagegateway:us-east-1:204469490176:tape/TEST05A2A0" }
```

DeleteTapeArchive

Deletes the specified virtual tape from the virtual tape shelf (VTS).

Request Syntax

```
{  
  "TapeARN": "string"  
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

TapeARN

The Amazon Resource Name (ARN) of the virtual tape to delete from the virtual tape shelf (VTS).

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{  
  "TapeARN": "string"  
}
```

Response Elements

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

TapeARN

The Amazon Resource Name (ARN) of the virtual tape that was deleted from the virtual tape shelf (VTS).

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

DeleteVolume

This operation delete the specified gateway volume that you previously created using the [CreateStore-diSCSIVolume \(p. 29\)](#) API. For gateway-stored volumes, the local disk that was configured as the storage volume is not deleted. You can reuse the local disk to create another storage volume.

Before you delete a gateway volume, make sure there are no iSCSI connections to the volume you are deleting. You should also make sure there is no snapshot in progress. You can use the Amazon Elastic Compute Cloud (Amazon EC2) API to query snapshots on the volume you are deleting and check the snapshot status. For more information, go to [DescribeSnapshots](#) in the *Amazon Elastic Compute Cloud API Reference*.

In the request, you must provide the Amazon Resource Name (ARN) of the storage volume you want to delete.

Request Syntax

```
{
  "VolumeARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

VolumeARN

The Amazon Resource Name (ARN) of the volume. Use the [ListVolumes \(p. 108\)](#) operation to return a list of gateway volumes.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "VolumeARN": "string"
}
```

Response Elements

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

VolumeARN

The Amazon Resource Name (ARN) of the storage volume that was deleted. It is the same ARN you provided in the request.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that deletes a volume.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DeleteVolume
{
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/volume/vol-1122AABB"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 99
{
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
```

```
way/volume/vol-1122AABB"  
}
```

DescribeBandwidthRateLimit

This operation returns the bandwidth rate limits of a gateway. By default, these limits are not set, which means no bandwidth rate limiting is in effect.

This operation only returns a value for a bandwidth rate limit only if the limit is set. If no limits are set for the gateway, then this operation returns only the gateway ARN in the response body. To specify which gateway to describe, use the Amazon Resource Name (ARN) of the gateway in your request.

Request Syntax

```
{  
  "GatewayARN": "string"  
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{  
  "AverageDownloadRateLimitInBitsPerSec": "number",  
  "AverageUploadRateLimitInBitsPerSec": "number",  
  "GatewayARN": "string"  
}
```

Response Elements

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

AverageDownloadRateLimitInBitsPerSec

The average download bandwidth rate limit in bits per second. This field does not appear in the response if the download rate limit is not set.

Type: Long

AverageUploadRateLimitInBitsPerSec

The average upload bandwidth rate limit in bits per second. This field does not appear in the response if the upload rate limit is not set.

Type: Long

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that returns the bandwidth throttle properties of a gateway.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeBandwidthRateLimit
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
```

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```
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 169
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way",
  "AverageUploadRateLimitInBitsPerSec": 102400,
  "AverageDownloadRateLimitInBitsPerSec": 51200
}
```

DescribeCache

This operation returns information about the cache of a gateway. This operation is supported only for the gateway-cached volume architecture.

The response includes disk IDs that are configured as cache, and it includes the amount of cache allocated and used.

Request Syntax

```
{  
  "GatewayARN": "string"  
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{  
  "CacheAllocatedInBytes": "number",  
  "CacheDirtyPercentage": "number",  
  "CacheHitPercentage": "number",  
  "CacheMissPercentage": "number",  
  "CacheUsedPercentage": "number",  
  "DiskIds": [  
    "string"  
  ],  
  "GatewayARN": "string"  
}
```

Response Elements

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

CacheAllocatedInBytes

Type: Long

CacheDirtyPercentage

Type: Double

CacheHitPercentage

Type: Double

CacheMissPercentage

Type: Double

CacheUsedPercentage

Type: Double

DiskIds

Type: array of Strings

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request to obtain a description of a gateway's working storage.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-1/storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2
x-amz-date: 20120912T120000Z
x-amz-target: StorageGateway_20120630.DescribeCache
```

```
{  
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway"  
}
```

Sample Response

```
HTTP/1.1 200 OK  
x-amzn-RequestId: gur28r2rqlgb8vvs0mq17hlgijlq8gllelqeu3kpgg6f0kstauu0  
Date: Wed, 12 Sep 2012 12:00:02 GMT  
Content-Type: application/x-amz-json-1.1  
Content-length: 271  
  
{  
  "CacheAllocationInBytes": 2199023255552,  
  "CacheDirtyPercentage": 0.07,  
  "CacheHitPercentage": 99.68,  
  "CacheMissPercentage": 0.32,  
  "CacheUsedPercentage": 0.07,  
  "DiskIds": [  
    "pci-0000:03:00.0-scsi-0:0:0:0",  
    "pci-0000:04:00.0-scsi-0:1:0:0"  
  ],  
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway"  
}
```

DescribeCachediSCSIVolumes

This operation returns a description of the gateway volumes specified in the request. This operation is supported only for the gateway-cached volume architecture.

The list of gateway volumes in the request must be from one gateway. In the response Amazon Storage Gateway returns volume information sorted by volume Amazon Resource Name (ARN).

Request Syntax

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

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

VolumeARNs

Type: array of Strings

Required: Yes

Response Syntax

```
{
  "CachediSCSIVolumes": [
    {
      "SourceSnapshotId": "string",
      "VolumeARN": "string",
      "VolumeId": "string",
      "VolumeProgress": "number",
      "VolumeSizeInBytes": "number",
      "VolumeStatus": "string",
      "VolumeType": "string",
      "VolumeiSCSIAttributes": {
        "ChapEnabled": "boolean",
        "LunNumber": "number",
        "NetworkInterfaceId": "string",
        "NetworkInterfacePort": "number",
        "TargetARN": "string"
      }
    }
  ]
}
```

Response Elements

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

CachediSCSIVolumes

An array of objects where each object contains metadata about one cached volume.

Type: array of [CachediSCSIVolume](#) (p. 141) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 155).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that returns a description of a volume.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-1/storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2
x-amz-date: 20120912T120000Z
x-amz-target: StorageGateway_20120630.DescribeCachediSCSIVolumes

{
  "VolumeARNs": [ "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway/volume/vol-1122AABB" ]
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rqlgb8vvs0mq17hlgijlq8gllelqeu3kpgg6f0kstauu0
Date: Wed, 12 Sep 2012 12:00:02 GMT
Content-Type: application/x-amz-json-1.1
Content-length: 664

{
  "CachediSCSIVolumes": [
    {
      "VolumeiSCSIAttributes": {
        "ChapEnabled": true,
        "LunNumber": 0,
        "NetworkInterfaceId": "10.243.43.207",
        "NetworkInterfacePort": 3260,
        "TargetARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway/target/iqn.1997-05.com.amazon:myvolume"
      },
      "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway/volume/vol-1122AABB",
      "VolumeDiskId": "pci-0000:03:00.0-scsi-0:0:0:0",
      "VolumeId": "vol-1122AABB",
      "VolumeSizeInBytes": 1099511627776,
      "VolumeStatus": "AVAILABLE",
      "VolumeType": "CACHED iSCSI"
    }
  ]
}
```


DescribeChapCredentials

This operation returns an array of Challenge-Handshake Authentication Protocol (CHAP) credentials information for a specified iSCSI target, one for each target-initiator pair.

Request Syntax

```
{  
  "TargetARN": "string"  
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

TargetARN

The Amazon Resource Name (ARN) of the iSCSI volume target. Use the [DescribeStorediSCSIVolumes \(p. 76\)](#) operation to return to retrieve the TargetARN for specified VolumeARN.

Type: String

Length constraints: Minimum length of 50. Maximum length of 800.

Required: Yes

Response Syntax

```
{  
  "ChapCredentials": [  
    {  
      "InitiatorName": "string",  
      "SecretToAuthenticateInitiator": "string",  
      "SecretToAuthenticateTarget": "string",  
      "TargetARN": "string"  
    }  
  ]  
}
```

Response Elements

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

ChapCredentials

An array of [ChapInfo \(p. 142\)](#) objects that represent CHAP credentials. Each object in the array contains CHAP credential information for one target-initiator pair. If no CHAP credentials are set, an empty array is returned. CHAP credential information is provided in a JSON object with the following fields:

- **InitiatorName:** The iSCSI initiator that connects to the target.
- **SecretToAuthenticateInitiator:** The secret key that the initiator (e.g. Windows client) must provide to participate in mutual CHAP with the target.
- **SecretToAuthenticateTarget:** The secret key that the target must provide to participate in mutual CHAP with the initiator (e.g. Windows client).
- **TargetARN:** The Amazon Resource Name (ARN) of the storage volume.

Type: array of [ChapInfo](#) (p. 142) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 155).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that returns the CHAP credentials of an iSCSI target.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeChapCredentials
{
  "TargetARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/target/iqn.1997-05.com.amazon:myvolume"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 235
```

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```
{
  "ChapCredentials": {
    "TargetName": "iqn.1997-05.com.amazon:myvolume",
    "SecretToAuthenticateInitiator": "111111111111",
    "InitiatorName": "iqn.1991-05.com.microsoft:computername.domain.example.com",
    "SecretToAuthenticateTarget": "222222222222"
  }
}
```

DescribeGatewayInformation

This operation returns metadata about a gateway such as its name, network interfaces, configured time zone, and the state (whether the gateway is running or not). To specify which gateway to describe, use the Amazon Resource Name (ARN) of the gateway in your request.

Request Syntax

```
{
  "GatewayARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "GatewayARN": "string",
  "GatewayId": "string",
  "GatewayNetworkInterfaces": [
    {
      "Ipv4Address": "string",
      "Ipv6Address": "string",
      "MacAddress": "string"
    }
  ],
  "GatewayState": "string",
  "GatewayTimezone": "string",
  "GatewayType": "string",
  "NextUpdateAvailabilityDate": "string"
}
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

GatewayId

The gateway ID.

Type: String

Length constraints: Minimum length of 12. Maximum length of 30.

GatewayNetworkInterfaces

A [NetworkInterface \(p. 145\)](#) array that contains descriptions of the gateway network interfaces.

Type: array of [NetworkInterface \(p. 145\)](#) objects

GatewayState

One of the values that indicates the operating state of the gateway.

Type: String

Length constraints: Minimum length of 2. Maximum length of 25.

GatewayTimezone

One of the values that indicates the time zone configured for the gateway.

Type: String

Length constraints: Minimum length of 3. Maximum length of 10.

GatewayType

TBD

Type: String

Length constraints: Minimum length of 2. Maximum length of 20.

NextUpdateAvailabilityDate

The date at which an update to the gateway is available. This date is in the time zone of the gateway. If the gateway is not available for an update this field is not returned in the response.

Type: String

Length constraints: Minimum length of 1. Maximum length of 25.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request for describing a gateway.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeGatewayInformation
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 227
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way",
  "GatewayId": "sgw-AABB1122",
  "GatewayNetworkInterfaces": [ {"Ipv4Address": "10.35.69.216"} ],
  "GatewayState": "STATE_RUNNING",
  "GatewayTimezone": "GMT-8:00"
}
```

DescribeMaintenanceStartTime

This operation returns your gateway's weekly maintenance start time including the day and time of the week. Note that values are in terms of the gateway's time zone.

Request Syntax

```
{  
  "GatewayARN": "string"  
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{  
  "DayOfWeek": "number",  
  "GatewayARN": "string",  
  "HourOfDay": "number",  
  "MinuteOfHour": "number",  
  "Timezone": "string"  
}
```

Response Elements

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

DayOfWeek

Type: Number

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

HourOfDay

Type: Number

MinuteOfHour

Type: Number

Timezone

Type: String

Length constraints: Minimum length of 3. Maximum length of 10.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that describes a gateway's maintenance window.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeMaintenanceStartTime
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
```


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```
Content-length: 136
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way",
  "HourOfDay": 15,
  "MinuteOfHour": 35,
  "DayOfWeek": 2,
  "Timezone": "GMT+7:00"
}
```

DescribeSnapshotSchedule

This operation describes the snapshot schedule for the specified gateway volume. The snapshot schedule information includes intervals at which snapshots are automatically initiated on the volume.

Request Syntax

```
{  
  "VolumeARN": "string"  
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

VolumeARN

The Amazon Resource Name (ARN) of the volume. Use the [ListVolumes \(p. 108\)](#) operation to return a list of gateway volumes.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{  
  "Description": "string",  
  "RecurrenceInHours": "number",  
  "StartAt": "number",  
  "Timezone": "string",  
  "VolumeARN": "string"  
}
```

Response Elements

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

Description

Type: String

Length constraints: Minimum length of 1. Maximum length of 255.

RecurrenceInHours

Type: Number

StartAt

Type: Number

Timezone

Type: String

Length constraints: Minimum length of 3. Maximum length of 10.

VolumeARN

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that retrieves the snapshot schedule for a volume.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeSnapshotSchedule
{
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/volume/vol-1122AABB"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
```

```
Content-type: application/x-amz-json-1.1
Content-length: 211
{
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/volume/vol-1122AABB",
  "StartAt": 6,
  "RecurrenceInHours": 24,
  "Description": "sgw-AABB1122:vol-AABB1122:Schedule",
  "Timezone": "GMT+7:00"
}
```

DescribeStorediSCSIVolumes

This operation returns description of the gateway volumes specified in the request. The list of gateway volumes in the request must be from one gateway. In the response Amazon Storage Gateway returns volume information sorted by volume ARNs.

Request Syntax

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

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

VolumeARNs

An array of strings where each string represents the Amazon Resource Name (ARN) of a stored volume. All of the specified stored volumes must from the same gateway. Use [ListVolumes \(p. 108\)](#) to get volume ARNs for a gateway.

Type: array of Strings

Required: Yes

Response Syntax

```
{
  "StorediSCSIVolumes": [
    {
      "PreservedExistingData": "boolean",
      "SourceSnapshotId": "string",
      "VolumeARN": "string",
      "VolumeDiskId": "string",
      "VolumeId": "string",
      "VolumeProgress": "number",
      "VolumeSizeInBytes": "number",
      "VolumeStatus": "string",
      "VolumeType": "string",
      "VolumeiSCSIAttributes": {
        "ChapEnabled": "boolean",
        "LunNumber": "number",
        "NetworkInterfaceId": "string",
        "NetworkInterfacePort": "number",
        "TargetARN": "string"
      }
    }
  ]
}
```

```
}  
  ]  
}
```

Response Elements

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

StorediSCSIVolumes

Type: array of [StorediSCSIVolume](#) (p. 146) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 155).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that returns a description of a volume.

Sample Request

```
POST / HTTP/1.1  
Host: storagegateway.us-east-1.amazonaws.com  
x-amz-Date: 20120425T120000Z  
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG  
Content-type: application/x-amz-json-1.1  
x-amz-target: StorageGateway_20120630.DescribeStorediSCSIVolumes  
{  
  "VolumeARNs": [ "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate  
way/volume/vol-1122AABB" ]  
}
```

Sample Response

```
HTTP/1.1 200 OK
```

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```
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 507
{
  "StorediSCSIVolumes": [
    {
      "VolumeiSCSIAttributes": {
        "ChapEnabled": true,
        "NetworkInterfaceId": "10.243.43.207",
        "NetworkInterfacePort": 3260,
        "TargetARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway/target/iqn.1997-05.com.amazon:myvolume"
      },
      "PreservedExistingData": false,
      "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway/volume/vol-1122AABB",
      "VolumeDiskId": "pci-0000:03:00.0-scsi-0:0:0:0",
      "VolumeId": "vol-1122AABB",
      "VolumeProgress": 23.7,
      "VolumeSizeInBytes": 1099511627776,
      "VolumeStatus": "BOOTSTRAPPING"
    }
  ]
}
```

DescribeTapeArchives

Returns a description of specified virtual tapes in the virtual tape shelf (VTS).

If a specific `TapeARN` is not specified, AWS Storage Gateway returns a description of all virtual tapes found in the VTS associated with your account.

Request Syntax

```
{
  "Limit": "number",
  "Marker": "string",
  "TapeARNs": [
    "string"
  ]
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

Limit

Specifies that the number of virtual tapes described be limited to the specified number.

Type: Number

Required: No

Marker

An opaque string that indicates the position at which to begin describing virtual tapes.

Type: String

Length constraints: Minimum length of 1. Maximum length of 1000.

Required: No

TapeARNs

Specifies one or more unique Amazon Resource Names (ARNs) that represent the virtual tapes you want to describe.

Type: array of Strings

Required: No

Response Syntax

```
{
  "Marker": "string",
  "TapeArchives": [
```



```
{
  "CompletionTime": "number",
  "RetrievedTo": "string",
  "TapeARN": "string",
  "TapeBarcode": "string",
  "TapeSizeInBytes": "number",
  "TapeStatus": "string"
}
```

Response Elements

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

Marker

An opaque string that indicates the position at which the virtual tapes that were fetched for description ended. Use this marker in your next request to fetch the next set of virtual tapes in the virtual tape shelf (VTS). If there are no more virtual tapes to describe, this field does not appear in the response.

Type: String

Length constraints: Minimum length of 1. Maximum length of 1000.

TapeArchives

An array of virtual tape objects in the virtual tape shelf (VTS). The description includes of the Amazon Resource Name(ARN) of the virtual tapes. The information returned includes the Amazon Resource Names (ARNs) of the tapes, size of the tapes, status of the tapes, progress of the description and tape barcode.

Type: array of [TapeArchive](#) (p. 149) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 155).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Retrieve description tapes in VTS

The following example shows a request that retrieves description of two tapes archived to VTS in the AWS region specified in the request. The request identifies the tapes by their ARN value. ARN value.

The trailing string in the ARN is the tape barcode. If you don't the tape ARN, the AWS Storage Gateway returns information of all tapes archived to VTS.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-1/storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2
x-amz-date: 20131028T120000Z
x-amz-target: StorageGateway_20130630.DescribeTapeArchives

{"TapeARNs":
  [ "arn:aws:storagegateway:us-east-1:9999999999:tape/AM08A1AD",
    "arn:aws:storagegateway:us-east-1:9999999999:tape/AMZN01A2A4" ]
}
```

Sample Response

```
{"TapeArchives":
  [
    { "CompletionTime": 1380308527.236,
      "TapeARN": "arn:aws:storagegateway:us-east-1:9999999999:tape/AM08A1AD",
      "TapeBarcode": "AM08A1AD",
      "TapeSizeInBytes": 107374182400,
      "TapeStatus": "ARCHIVED" },
    { "CompletionTime": 1382918022.647,
      "TapeARN": "arn:aws:storagegateway:us-east-1:9999999999:tape/AMZN01A2A4",

      "TapeBarcode": "AMZN01A2A4",
      "TapeSizeInBytes": 429496729600,
      "TapeStatus": "ARCHIVED" }
  ]
}
```

DescribeTapeRecoveryPoints

Returns a list of virtual tape recovery points that are available for the specified gateway-VTL.

A recovery point is a point in time view of a virtual tape at which all the data on the virtual tape is consistent. If your gateway crashes, virtual tapes that have recovery points can be recovered to a new gateway.

Request Syntax

```
{  
  "GatewayARN": "string",  
  "Limit": "number",  
  "Marker": "string"  
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Limit

Specifies that the number of virtual tape recovery points that are described be limited to the specified number.

Type: Number

Required: No

Marker

An opaque string that indicates the position at which to begin describing the virtual tape recovery points.

Type: String

Length constraints: Minimum length of 1. Maximum length of 1000.

Required: No

Response Syntax

```
{
```

```
"GatewayARN": "string",
"Marker": "string",
"TapeRecoveryPointInfos": [
  {
    "TapeARN": "string",
    "TapeRecoveryPointTime": "number",
    "TapeSizeInBytes": "number",
    "TapeStatus": "string"
  }
]
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Marker

An opaque string that indicates the position at which the virtual tape recovery points that were listed for description ended.

Use this marker in your next request to list the next set of virtual tape recovery points in the list. If there are no more recovery points to describe, this field does not appear in the response.

Type: String

Length constraints: Minimum length of 1. Maximum length of 1000.

TapeRecoveryPointInfos

An array of [TapeRecoveryPointInfos](#) that are available for the specified gateway.

Type: array of [TapeRecoveryPointInfo \(p. 150\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

DescribeTapes

Returns a description of the specified Amazon Resource Name (ARN) of virtual tapes. If a `TapeARN` is not specified, returns a description of all virtual tapes associated with the specified gateway.

Request Syntax

```
{
  "GatewayARN": "string",
  "Limit": "number",
  "Marker": "string",
  "TapeARNs": [
    "string"
  ]
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Limit

Specifies that the number of virtual tapes described be limited to the specified number.

Note

Amazon Web Services may impose its own limit, if this field is not set.

Type: Number

Required: No

Marker

A marker value, obtained in a previous call to `DescribeTapes`. This marker indicates which page of results to retrieve.

If not specified, the first page of results is retrieved.

Type: String

Length constraints: Minimum length of 1. Maximum length of 1000.

Required: No

TapeARNs

Specifies one or more unique Amazon Resource Names (ARNs) that represent the virtual tapes you want to describe. If this parameter is not specified, AWS Storage Gateway returns a description of all virtual tapes associated with the specified gateway.

Type: array of Strings

Required: No

Response Syntax

```
{
  "Marker": "string",
  "Tapes": [
    {
      "Progress": "number",
      "TapeARN": "string",
      "TapeBarcode": "string",
      "TapeSizeInBytes": "number",
      "TapeStatus": "string",
      "VTLDevice": "string"
    }
  ]
}
```

Response Elements

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

Marker

An opaque string which can be used as part of a subsequent DescribeTapes call to retrieve the next page of results.

If a response does not contain a marker, then there are no more results to be retrieved.

Type: String

Length constraints: Minimum length of 1. Maximum length of 1000.

Tapes

An array of virtual tape descriptions.

Type: array of [Tape \(p. 148\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Get descriptions of specific tapes

In the following request you obtain descriptions of tapes in the gateway-VTL (ExampleGatewayVTL). The request identifies specific tapes by specifying ARNs for the tapes. In the ARN, the trailing string, for example "TEST04A2A1"- is the tape barcode value. The string 999999999999 is your account number.

Sample Request

```
{ "GatewayARN" : "arn:aws:storagegateway:us-east-1:999999999999:gateway/ExampleGatewayVTL",  
  "TapeARNs" :  
    [ "arn:aws:storagegateway:us-east-1:999999999999:tape/TEST04A2A1",  
      "arn:aws:storagegateway:us-east-1:999999999999:tape/TEST05A2A0" ]  
  } }
```

Sample Response

```
{ "Tapes" :  
  [  
    { "TapeARN" : "arn:aws:storagegateway:us-east-1:999999999999:tape/TEST04A2A1",  
      "TapeBarcode" : "TEST04A2A1",  
      "TapeSizeInBytes" : 107374182400,  
      "TapeStatus" : "AVAILABLE" },  
    { "TapeARN" : "arn:aws:storagegateway:us-east-1:999999999999:tape/TEST05A2A0",  
      "TapeBarcode" : "TEST05A2A0",  
      "TapeSizeInBytes" : 107374182400,  
      "TapeStatus" : "AVAILABLE" }  
  ]  
}
```

DescribeUploadBuffer

This operation returns information about the upload buffer of a gateway. This operation is supported for both the gateway-stored and gateway-cached volume architectures.

The response includes disk IDs that are configured as upload buffer space, and it includes the amount of upload buffer space allocated and used.

Request Syntax

```
{  
  "GatewayARN": "string"  
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{  
  "DiskIds": [  
    "string"  
  ],  
  "GatewayARN": "string",  
  "UploadBufferAllocatedInBytes": "number",  
  "UploadBufferUsedInBytes": "number"  
}
```

Response Elements

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

DiskIds

Type: array of Strings

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

UploadBufferAllocatedInBytes

Type: Long

UploadBufferUsedInBytes

Type: Long

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request to obtain a description of a gateway's working storage.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-1/storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2
x-amz-date: 20120912T120000Z
x-amz-target: StorageGateway_20120630.DescribeUploadBuffer

{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rqlgb8vvs0mq17hlgijlq8gllelqeu3kpgg6f0kstauu0
Date: Wed, 12 Sep 2012 12:00:02 GMT
Content-Type: application/x-amz-json-1.1
Content-length: 271

{
  "DiskIds": [
    "pci-0000:03:00.0-scsi-0:0:0:0",
    "pci-0000:04:00.0-scsi-0:1:0:0"
  ],
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way",
  "UploadBufferAllocatedInBytes": 161061273600,
  "UploadBufferUsedInBytes": 0
}
```

DescribeVTLDevices

Returns a description of virtual tape library (VTL) devices for the specified gateway. In the response, AWS Storage Gateway returns VTL device information.

The list of VTL devices must be from one gateway.

Request Syntax

```
{
  "GatewayARN": "string",
  "Limit": "number",
  "Marker": "string",
  "VTLDeviceARNs": [
    "string"
  ]
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Limit

Specifies that the number of VTL devices described be limited to the specified number.

Type: Number

Required: No

Marker

An opaque string that indicates the position at which to begin describing the VTL devices.

Type: String

Length constraints: Minimum length of 1. Maximum length of 1000.

Required: No

VTLDeviceARNs

An array of strings, where each string represents the Amazon Resource Name (ARN) of a VTL device.

Note

All of the specified VTL devices must be from the same gateway. If no VTL devices are specified, the result will contain all devices on the specified gateway.

Type: array of Strings

Required: No

Response Syntax

```
{
  "GatewayARN": "string",
  "Marker": "string",
  "VTLDevices": [
    {
      "DeviceiSCSIAttributes": {
        "ChapEnabled": "boolean",
        "NetworkInterfaceId": "string",
        "NetworkInterfacePort": "number",
        "TargetARN": "string"
      },
      "VTLDeviceARN": "string",
      "VTLDeviceProductIdentifier": "string",
      "VTLDeviceType": "string",
      "VTLDeviceVendor": "string"
    }
  ]
}
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Marker

An opaque string that indicates the position at which the VTL devices that were fetched for description ended. Use the marker in your next request to fetch the next set of VTL devices in the list. If there are no more VTL devices to describe, this field does not appear in the response.

Type: String

Length constraints: Minimum length of 1. Maximum length of 1000.

VTLDevices

An array of VTL device objects composed of the Amazon Resource Name(ARN) of the VTL devices.

Type: array of [VTLDevice \(p. 150\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Get descriptions of the VTL devices on a gateway

The following example gets descriptions of all the VTL devices on a gateway (ExampleGatewayVTL). The request identifies the gateway by ARN. In the request, string 999999999999 is the account number associated with the AWS account sending the request. Note that the response shown is truncated, it shows the media changer and only two tape drives. The trailing string in each device ARN is the device ID.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-date: 20131025T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9EXAMPLE
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeVTLDevices
{"GatewayARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/ExampleGatewayVTL"}
```

Sample Response

```
{"GatewayARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/ExampleGatewayVTL",
  "VTLDevices":
  [
    {"DeviceiSCSIAttributes":
      {"ChapEnabled": false,
       "NetworkInterfaceId": "*",
       "NetworkInterfacePort": 3260,
       "TargetARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/ExampleGatewayVTL/target/iqn.1997-05.com.amazon:sgw-1fad4876-mediachanger"},
      "VTLDeviceARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/ExampleGatewayVTL/device/AMZN_SGW-1FAD4876_MEDIACHANGER_00001",
      "VTLDeviceProductIdentifier": "L700",
      "VTLDeviceType": "Medium Changer",
      "VTLDeviceVendor": "STK"},
    {"DeviceiSCSIAttributes":
      {"ChapEnabled": false,
```

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```
    "NetworkInterfaceId": "*",
    "NetworkInterfacePort": 3260,
    "TargetARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/ExampleGatewayVTL/target/iqn.1997-05.com.amazon:sgw-1fad4876-tapedrive-01"},
    "VTLDeviceARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/ExampleGatewayVTL/device/AMZN_SGW-1FAD4876_TAPEDRIVE_00001",
    "VTLDeviceProductIdentifier": "ULT3580-TD5",
    "VTLDeviceType": "Tape Drive",
    "VTLDeviceVendor": "IBM"},
  {"DeviceiSCSIAttributes":
    {"ChapEnabled": false,
    "NetworkInterfaceId": "*",
    "NetworkInterfacePort": 3260,
    "TargetARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/ExampleGatewayVTL/target/iqn.1997-05.com.amazon:sgw-1fad4876-tapedrive-02"},
    "VTLDeviceARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/ExampleGatewayVTL/device/AMZN_SGW-1FAD4876_TAPEDRIVE_00002",
    "VTLDeviceProductIdentifier": "ULT3580-TD5",
    "VTLDeviceType": "Tape Drive",
    "VTLDeviceVendor": "IBM"}
  ]
}
```

DescribeWorkingStorage

This operation returns information about the working storage of a gateway. This operation is supported only for the gateway-stored volume architecture. This operation is deprecated in cached-volumes API version (20120630). Use DescribeUploadBuffer instead.

Note

Working storage is also referred to as upload buffer. You can also use the DescribeUploadBuffer operation to add upload buffer to a stored-volume gateway.

The response includes disk IDs that are configured as working storage, and it includes the amount of working storage allocated and used.

Request Syntax

```
{
  "GatewayARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "DiskIds": [
    "string"
  ],
  "GatewayARN": "string",
  "WorkingStorageAllocatedInBytes": "number",
  "WorkingStorageUsedInBytes": "number"
}
```

Response Elements

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

DiskIds

An array of the gateway's local disk IDs that are configured as working storage. Each local disk ID is specified as a string (minimum length of 1 and maximum length of 300). If no local disks are configured as working storage, then the DiskIds array is empty.

Type: array of Strings

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

WorkingStorageAllocatedInBytes

The total working storage in bytes allocated for the gateway. If no working storage is configured for the gateway, this field returns 0.

Type: Long

WorkingStorageUsedInBytes

The total working storage in bytes in use by the gateway. If no working storage is configured for the gateway, this field returns 0.

Type: Long

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request to obtain a description of a gateway's working storage.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
```



```
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeWorkingStorage
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 241
{
  "DiskIds": ["pci-0000:03:00.0-scsi-0:0:0:0", "pci-0000:03:00.0-scsi-0:0:1:0"],
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway",
  "WorkingStorageAllocatedInBytes": 2199023255552,
  "WorkingStorageUsedInBytes": 789207040
}
```

DisableGateway

Disables a gateway when the gateway is no longer functioning. For example, if your gateway VM is damaged, you can disable the gateway so you can recover virtual tapes.

Use this operation for a gateway-VTL that is not reachable or not functioning.

Important

Once a gateway is disabled it cannot be enabled.

Request Syntax

```
{
  "GatewayARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "GatewayARN": "string"
}
```

Response Elements

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

GatewayARN

The unique Amazon Resource Name of the disabled gateway.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

ListGateways

This operation lists gateways owned by an AWS account in a region specified in the request. The returned list is ordered by gateway Amazon Resource Name (ARN).

By default, the operation returns a maximum of 100 gateways. This operation supports pagination that allows you to optionally reduce the number of gateways returned in a response.

If you have more gateways than are returned in a response—that is, the response returns only a truncated list of your gateways—the response contains a marker that you can specify in your next request to fetch the next page of gateways.

Request Syntax

```
{  
  "Limit": "number",  
  "Marker": "string"  
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

Limit

Specifies that the list of gateways returned be limited to the specified number of items.

Type: Number

Required: No

Marker

An opaque string that indicates the position at which to begin the returned list of gateways.

Type: String

Length constraints: Minimum length of 1. Maximum length of 1000.

Required: No

Response Syntax

```
{  
  "Gateways": [  
    {  
      "GatewayARN": "string",  
      "GatewayOperationalState": "string",  
      "GatewayType": "string"  
    }  
  ],  
}
```

```
"Marker": "string"  
}
```

Response Elements

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

Gateways

Type: array of [GatewayInfo](#) (p. 145) objects

Marker

Type: String

Length constraints: Minimum length of 1. Maximum length of 1000.

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 155).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

List Gateways

The following example does not specify any criteria for the returned list. Note that the request body is "{}". The response returns gateways (or up to the first 100) in the specified region owned by the AWS account.

Sample Request

```
POST / HTTP/1.1  
Host: storagegateway.us-east-1.amazonaws.com  
x-amz-Date: 20120425T120000Z  
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG  
Content-type: application/x-amz-json-1.1  
x-amz-target: StorageGateway_20120630.ListGateways
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 178
{
  "GatewayList": [
    {
      "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/my
gateway",
      "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/my
gateway2"
    }
  ]
}
```

ListLocalDisks

This operation returns a list of the local disks of a gateway. To specify which gateway to describe you use the Amazon Resource Name (ARN) of the gateway in the body of the request.

The request returns all disks, specifying which are configured as working storage, stored volume or not configured at all.

Request Syntax

```
{  
  "GatewayARN": "string"  
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{  
  "Disks": [  
    {  
      "DiskAllocationResource": "string",  
      "DiskAllocationType": "string",  
      "DiskId": "string",  
      "DiskNode": "string",  
      "DiskPath": "string",  
      "DiskSizeInBytes": "number"  
    }  
  ],  
  "GatewayARN": "string"  
}
```

Response Elements

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

Disks

Type: array of [Disk \(p. 144\)](#) objects

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that returns information about a gateway's local disks.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR000KIRLG0HVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.ListLocalDisks
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```


Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 398
{
  "Disks": [
    {
      "DiskAllocationType": "UPLOAD_BUFFER",
      "DiskId": "pci-0000:03:00.0-scsi-0:0:0:0",
      "DiskNode": "SCSI(0:0)",
      "DiskPath": "/dev/sda",
      "DiskSizeInBytes": 1099511627776
    },
    {
      "DiskAllocationType": "STORED_iSCSI_VOLUME",
      "DiskAllocationResource": "",
      "DiskId": "pci-0000:03:00.0-scsi-0:0:1:0",
      "DiskNode": "SCSI(0:1)",
      "DiskPath": "/dev/sdb",
      "DiskSizeInBytes": 1099511627776
    }
  ],
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```

ListVolumeRecoveryPoints

This operation lists the recovery points for a specified gateway. This operation is supported only for the gateway-cached volume architecture.

Each gateway-cached volume has one recovery point. A volume recovery point is a point in time at which all data of the volume is consistent and from which you can create a snapshot. To create a snapshot from a volume recovery point use the [CreateSnapshotFromVolumeRecoveryPoint \(p. 26\)](#) operation.

Request Syntax

```
{
  "GatewayARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "GatewayARN": "string",
  "VolumeRecoveryPointInfos": [
    {
      "VolumeARN": "string",
      "VolumeRecoveryPointTime": "string",
      "VolumeSizeInBytes": "number",
      "VolumeUsageInBytes": "number"
    }
  ]
}
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

VolumeRecoveryPointInfos

Type: array of [VolumeRecoveryPointInfo \(p. 151\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example sends a `ListVolumeRecoveryPoints` request to take a snapshot of the specified example volume.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
Content-Type: application/x-amz-json-1.1
Authorization: AWS4-HMAC-SHA256 Credential=AKIAIOSFODNN7EXAMPLE/20120425/us-east-1/storagegateway/aws4_request, SignedHeaders=content-type;host;x-amz-date;x-amz-target, Signature=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2
x-amz-date: 20120912T120000Z
x-amz-target: StorageGateway_20120630.ListVolumeRecoveryPoints

{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rqlgb8vvs0mq17hlgijlq8gllelqeu3kpgg6f0kstauu0
Date: Wed, 12 Sep 2012 12:00:02 GMT
Content-Type: application/x-amz-json-1.1
Content-length: 137

{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way",
  "VolumeRecoveryPointInfos": [
    {
      "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/myg
ateway/volume/vol-1122AABB",
      "VolumeRecoveryPointTime": "2012-09-04T21:08:44.627Z",
      "VolumeSizeInBytes": 536870912000,
      "VolumeUsageInBytes": 6694048
    }
  ]
}
```

ListVolumes

This operation lists the iSCSI stored volumes of a gateway. Results are sorted by volume ARN. The response includes only the volume ARNs. If you want additional volume information, use the [DescribeStore-diSCSIVolumes \(p. 76\)](#) API.

The operation supports pagination. By default, the operation returns a maximum of up to 100 volumes. You can optionally specify the `Limit` field in the body to limit the number of volumes in the response. If the number of volumes returned in the response is truncated, the response includes a `Marker` field. You can use this `Marker` value in your subsequent request to retrieve the next set of volumes.

Request Syntax

```
{  
  "GatewayARN": "string",  
  "Limit": "number",  
  "Marker": "string"  
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Limit

Specifies that the list of volumes returned be limited to the specified number of items.

Type: Number

Required: No

Marker

A string that indicates the position at which to begin the returned list of volumes. Obtain the marker from the response of a previous List iSCSI Volumes request.

Type: String

Length constraints: Minimum length of 1. Maximum length of 1000.

Required: No

Response Syntax

```
{
  "GatewayARN": "string",
  "Marker": "string",
  "VolumeInfos": [
    {
      "VolumeARN": "string",
      "VolumeType": "string"
    }
  ]
}
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Marker

Type: String

Length constraints: Minimum length of 1. Maximum length of 1000.

VolumeInfos

Type: array of [VolumeInfo \(p. 151\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The List iSCSI Volumes request in this example does not specify a limit or marker field in the response body. The response returns the volumes (up to the first 100) of the gateway.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.ListVolumes
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 346
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way",
  "VolumeInfos": [
    {
      "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/my
gateway/volume/vol-1122AABB",
      "VolumeType": "STORED"
    },
    {
      "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/my
gateway/volume/vol-3344CCDD",
      "VolumeType": "STORED"
    }
  ]
}
```

RetrieveTapeArchive

Retrieves an archived virtual tape from the virtual tape shelf (VTS) to a gateway-VTL. Virtual tapes archived in the VTS are not associated with any gateway. However after a tape is retrieved, it is associated with a gateway, even though it is also listed in the VTS.

Once a tape is successfully retrieved to a gateway, it cannot be retrieved again to another gateway. You must archive the tape again before you can retrieve it to another gateway.

Request Syntax

```
{  
  "GatewayARN": "string",  
  "TapeARN": "string"  
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway you want to retrieve the virtual tape to. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

You retrieve archived virtual tapes to only one gateway and the gateway must be a gateway-VTL.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

TapeARN

The Amazon Resource Name (ARN) of the virtual tape you want to retrieve from the virtual tape shelf (VTS).

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{  
  "TapeARN": "string"  
}
```


Response Elements

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

TapeARN

The Amazon Resource Name (ARN) of the retrieved virtual tape.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Retrieve a Tape

The following example request retrieves an archived tape from VTS to a gateway (ExampleGatewayVTL). In the request, the tape is identified by its ARN. In the ARN the trailing string is the tape barcode. The string 999999999999 is your AWS account number. It takes about 24 hours for retrieval to complete. After the operation is complete, the tape appears in the specified gateway's virtual tape library (VTL).

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20130630.RetrieveTapeArchive
{
  "TapeARN": "arn:aws:storagegateway:us-east-1:999999999999:tape/TEST0AA2AF",
  "GatewayARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/ExampleGatewayVTL"
}
```

Sample Response

```
{ "TapeARN": "arn:aws:storagegateway:us-east-1:204469490176:tape/TEST0AA2AF" }
```

RetrieveTapeRecoveryPoint

Retrieves the recovery point for the specified virtual tape.

A recovery point is a point in time view of a virtual tape at which all the data on the tape is consistent. If your gateway crashes, virtual tapes that have recovery points can be recovered to a new gateway.

Note

The virtual tape can be retrieved to only one gateway. The retrieved tape is read-only. The virtual tape can be retrieved to only a gateway-VTL. There is no charge for retrieving recovery points.

Request Syntax

```
{
  "GatewayARN": "string",
  "TapeARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

TapeARN

The Amazon Resource Name (ARN) of the virtual tape for which you want to retrieve the recovery point.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "TapeARN": "string"
}
```

Response Elements

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

TapeARN

The Amazon Resource Name (ARN) of the virtual tape for which the recovery point was retrieved.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

ShutdownGateway

This operation shuts down a gateway. To specify which gateway to shut down, use the Amazon Resource Name (ARN) of the gateway in the body of your request.

The operation shuts down the gateway service component running in the storage gateway's virtual machine (VM) and not the VM.

Note

If you want to shut down the VM, it is recommended that you first shut down the gateway component in the VM to avoid unpredictable conditions.

After the gateway is shutdown, you cannot call any other API except [StartGateway](#) (p. 119), [DescribeGatewayInformation](#) (p. 67), and [ListGateways](#) (p. 99). For more information, see [ActivateGateway](#) (p. 4). Your applications cannot read from or write to the gateway's storage volumes, and there are no snapshots taken.

Note

When you make a shutdown request, you will get a 200 OK success response immediately. However, it might take some time for the gateway to shut down. You can call the [DescribeGatewayInformation](#) (p. 67) API to check the status. For more information, see [ActivateGateway](#) (p. 4).

If do not intend to use the gateway again, you must delete the gateway (using [DeleteGateway](#) (p. 42)) to no longer pay software charges associated with the gateway.

Request Syntax

```
{
  "GatewayARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters](#) (p. 153).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 99) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
```

```
}  
  "GatewayARN": "string"
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that shuts down a gateway.

Sample Request

```
POST / HTTP/1.1  
Host: storagegateway.us-east-1.amazonaws.com  
x-amz-Date: 20120425T120000Z  
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG  
Content-type: application/x-amz-json-1.1  
x-amz-target: StorageGateway_20120630.ShutdownGateway  
{  
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate  
way"  
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```

StartGateway

This operation starts a gateway that you previously shut down (see [ShutdownGateway \(p. 116\)](#)). After the gateway starts, you can then make other API calls, your applications can read from or write to the gateway's storage volumes and you will be able to take snapshot backups.

Note

When you make a request, you will get a 200 OK success response immediately. However, it might take some time for the gateway to be ready. You should call [DescribeGatewayInformation \(p. 67\)](#) and check the status before making any additional API calls. For more information, see [ActivateGateway \(p. 4\)](#).

To specify which gateway to start, use the Amazon Resource Name (ARN) of the gateway in your request.

Request Syntax

```
{
  "GatewayARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "GatewayARN": "string"
}
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that starts a gateway.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.StartGateway
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```

UpdateBandwidthRateLimit

This operation updates the bandwidth rate limits of a gateway. You can update both the upload and download bandwidth rate limit or specify only one of the two. If you don't set a bandwidth rate limit, the existing rate limit remains.

By default, a gateway's bandwidth rate limits are not set. If you don't set any limit, the gateway does not have any limitations on its bandwidth usage and could potentially use the maximum available bandwidth.

To specify which gateway to update, use the Amazon Resource Name (ARN) of the gateway in your request.

Request Syntax

```
{
  "AverageDownloadRateLimitInBitsPerSec": "number",
  "AverageUploadRateLimitInBitsPerSec": "number",
  "GatewayARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

AverageDownloadRateLimitInBitsPerSec

The average download bandwidth rate limit in bits per second.

Type: Long

Required: No

AverageUploadRateLimitInBitsPerSec

The average upload bandwidth rate limit in bits per second.

Type: Long

Required: No

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{  
  "GatewayARN": "string"  
}
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that returns the bandwidth throttle properties of a gateway.

Sample Request

```
POST / HTTP/1.1  
Host: storagegateway.us-east-1.amazonaws.com  
x-amz-Date: 20120425T120000Z  
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG  
Content-type: application/x-amz-json-1.1  
x-amz-target: StorageGateway_20120630.UpdateBandwidthRateLimit
```

```
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way",
  "AverageUploadRateLimitInBitsPerSec": 51200,
  "AverageDownloadRateLimitInBitsPerSec": 102400
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR0OOKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```

UpdateChapCredentials

This operation updates the Challenge-Handshake Authentication Protocol (CHAP) credentials for a specified iSCSI target. By default, a gateway does not have CHAP enabled; however, for added security, you might use it.

Important

When you update CHAP credentials, all existing connections on the target are closed and initiators must reconnect with the new credentials.

Request Syntax

```
{
  "InitiatorName": "string",
  "SecretToAuthenticateInitiator": "string",
  "SecretToAuthenticateTarget": "string",
  "TargetARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

InitiatorName

The iSCSI initiator that connects to the target.

Type: String

Length constraints: Minimum length of 1. Maximum length of 255.

Required: Yes

SecretToAuthenticateInitiator

The secret key that the initiator (e.g. Windows client) must provide to participate in mutual CHAP with the target.

Type: String

Length constraints: Minimum length of 12. Maximum length of 16.

Required: Yes

SecretToAuthenticateTarget

The secret key that the target must provide to participate in mutual CHAP with the initiator (e.g. Windows client).

Type: String

Length constraints: Minimum length of 12. Maximum length of 16.

Required: No

TargetARN

The Amazon Resource Name (ARN) of the iSCSI volume target. Use the [DescribeStorediSCSIVolumes \(p. 76\)](#) operation to return to retrieve the TargetARN for specified VolumeARN.

Type: String

Length constraints: Minimum length of 50. Maximum length of 800.

Required: Yes

Response Syntax

```
{
  "InitiatorName": "string",
  "TargetARN": "string"
}
```

Response Elements

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

InitiatorName

The iSCSI initiator that connects to the target. This is the same initiator name specified in the request.

Type: String

Length constraints: Minimum length of 1. Maximum length of 255.

TargetARN

The Amazon Resource Name (ARN) of the target. This is the same target specified in the request.

Type: String

Length constraints: Minimum length of 50. Maximum length of 800.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that updates CHAP credentials for an iSCSI target.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.UpdateChapCredentials
{
  "TargetARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/target/iqn.1997-05.com.amazon:myvolume",
  "SecretToAuthenticateInitiator": "111111111111",
  "InitiatorName": "iqn.1991-05.com.microsoft:computername.domain.example.com",

  "SecretToAuthenticateTarget": "222222222222"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 161
{
  "TargetARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way/target/iqn.1997-05.com.amazon:myvolume",
  "InitiatorName": "iqn.1991-05.com.microsoft:computername.domain.example.com"
}
```

UpdateGatewayInformation

This operation updates a gateway's metadata, which includes the gateway's name and time zone. To specify which gateway to update, use the Amazon Resource Name (ARN) of the gateway in your request.

Request Syntax

```
{
  "GatewayARN": "string",
  "GatewayName": "string",
  "GatewayTimezone": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

GatewayName

A unique identifier for your gateway. This name becomes part of the gateway Amazon Resources Name (ARN) which is what you use as an input to other operations.

Type: String

Length constraints: Minimum length of 2. Maximum length of 255.

Required: No

GatewayTimezone

Type: String

Length constraints: Minimum length of 3. Maximum length of 10.

Required: No

Response Syntax

```
{
  "GatewayARN": "string"
}
```


Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that updates the name of a gateway.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.GatewayInformation
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way",
  "GatewayName": "mygateway2"
}
```

Sample Response

```
HTTP/1.1 200 OK
```

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```
x-amzn-RequestId: CSOC7TJPLR0OOKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 81
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way2"
}
```

UpdateGatewaySoftwareNow

This operation updates the gateway virtual machine (VM) software. The request immediately triggers the software update.

Note

When you make this request, you get a 200 OK success response immediately. However, it might take some time for the update to complete. You can call [DescribeGatewayInformation](#) (p. 67) to verify the gateway is in the `STATE_RUNNING` state.

Important

A software update forces a system restart of your gateway. You can minimize the chance of any disruption to your applications by increasing your iSCSI Initiators' timeouts. For more information about increasing iSCSI Initiator timeouts for Windows and Linux, see [Customizing Your Windows iSCSI Settings](#) and [Customizing Your Linux iSCSI Settings](#), respectively.

Request Syntax

```
{
  "GatewayARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters](#) (p. 153).

The request accepts the following data in JSON format.

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 99) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{
  "GatewayARN": "string"
}
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that initiates a gateway VM update.

Sample Request

```
POST / HTTP/1.1
Host: storagegateway.us-east-1.amazonaws.com
x-amz-Date: 20120425T120000Z
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.UpdateGatewaySoftwareNow
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
```

```
way"  
}
```

UpdateMaintenanceStartTime

This operation updates a gateway's weekly maintenance start time information, including day and time of the week. The maintenance time is the time in your gateway's time zone.

Request Syntax

```
{
  "DayOfWeek": "number",
  "GatewayARN": "string",
  "HourOfDay": "number",
  "MinuteOfHour": "number"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

DayOfWeek

The maintenance start time day of the week.

Type: Number

Required: Yes

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

HourOfDay

The hour component of the maintenance start time represented as *hh*, where *hh* is the hour (00 to 23). The hour of the day is in the time zone of the gateway.

Type: Number

Required: Yes

MinuteOfHour

The minute component of the maintenance start time represented as *mm*, where *mm* is the minute (00 to 59). The minute of the hour is in the time zone of the gateway.

Type: Number

Required: Yes

Response Syntax

```
{  
  "GatewayARN": "string"  
}
```

Response Elements

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

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that updates the maintenance start time of mygateway.

Sample Request

```
POST / HTTP/1.1  
Host: storagegateway.us-east-1.amazonaws.com  
x-amz-Date: 20120425T120000Z  
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG  
Content-type: application/x-amz-json-1.1  
x-amz-target: StorageGateway_20120630.UpdateMaintenanceStartTime
```

```
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate
way",
  "HourOfDay": 0,
  "MinuteOfHour": 30,
  "DayOfWeek": 2
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR0OOKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 80
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygateway"
}
```


UpdateSnapshotSchedule

This operation updates a snapshot schedule configured for a gateway volume.

The default snapshot schedule for volume is once every 24 hours, starting at the creation time of the volume. You can use this API to change the snapshot schedule configured for the volume.

In the request you must identify the gateway volume whose snapshot schedule you want to update, and the schedule information, including when you want the snapshot to begin on a day and the frequency (in hours) of snapshots.

Request Syntax

```
{
  "Description": "string",
  "RecurrenceInHours": "number",
  "StartAt": "number",
  "VolumeARN": "string"
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

Description

Optional description of the snapshot that overwrites the existing description.

Type: String

Length constraints: Minimum length of 1. Maximum length of 255.

Required: No

RecurrenceInHours

Frequency of snapshots. Specify the number of hours between snapshots.

Type: Number

Required: Yes

StartAt

The hour of the day at which the snapshot schedule begins represented as *hh*, where *hh* is the hour (0 to 23). The hour of the day is in the time zone of the gateway.

Type: Number

Required: Yes

VolumeARN

The Amazon Resource Name (ARN) of the volume. Use the [ListVolumes \(p. 108\)](#) operation to return a list of gateway volumes.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{  
  "VolumeARN": "string"  
}
```

Response Elements

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

VolumeARN

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Examples

Example Request

The following example shows a request that updates a snapshot schedule.

Sample Request

```
POST / HTTP/1.1  
Host: storagegateway.us-east-1.amazonaws.com  
x-amz-Date: 20120425T120000Z  
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG  
Content-type: application/x-amz-json-1.1  
x-amz-target: StorageGateway_20120630.UpdateSnapshotSchedule  
{  
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate  
way/volume/vol-1122AABB",
```

```
"StartAt": 0,  
"RecurrenceInHours": 1,  
"Description": "hourly snapshot"  
}
```

Sample Response

```
HTTP/1.1 200 OK  
x-amzn-RequestId: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG  
Date: Wed, 25 Apr 2012 12:00:02 GMT  
Content-type: application/x-amz-json-1.1  
Content-length: 99  
{  
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/mygate  
way/volume/vol-1122AABB"  
}
```

UpdateVTLDeviceType

This operation updates the type of medium changer in a gateway-VTL. When you activate a gateway-VTL, you select a medium changer type for the gateway-VTL. This operation enables you to select a different type of medium changer after a gateway-VTL is activated.

Request Syntax

```
{  
  "DeviceType": "string",  
  "VTLDeviceARN": "string"  
}
```

Request Parameters

For information about the common parameters that all actions use, see [Common Parameters \(p. 153\)](#).

The request accepts the following data in JSON format.

DeviceType

The type of medium changer you want to select.

Valid Values: "STK-L700", "AWS-Gateway-VTL"

Type: String

Length constraints: Minimum length of 2. Maximum length of 50.

Required: Yes

VTLDeviceARN

The Amazon Resource Name (ARN) of the medium changer you want to select.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: Yes

Response Syntax

```
{  
  "VTLDeviceARN": "string"  
}
```

Response Elements

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

VTLDeviceARN

The Amazon Resource Name (ARN) of the medium changer you have selected.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 155\)](#).

InternalServerError

An internal server error has occurred during the request. See the error and message fields for more information.

HTTP Status Code: 500

InvalidGatewayRequestException

An exception occurred because an invalid gateway request was issued to the service. See the error and message fields for more information.

HTTP Status Code: 400

Data Types

The AWS Storage Gateway Service API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in the response is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [CachediSCSIVolume](#) (p. 141)
- [ChapInfo](#) (p. 142)
- [DeviceiSCSIAttributes](#) (p. 143)
- [Disk](#) (p. 144)
- [GatewayInfo](#) (p. 145)
- [NetworkInterface](#) (p. 145)
- [StorageGatewayError](#) (p. 146)
- [StorediSCSIVolume](#) (p. 146)
- [Tape](#) (p. 148)
- [TapeArchive](#) (p. 149)
- [TapeRecoveryPointInfo](#) (p. 150)
- [VTLDevice](#) (p. 150)
- [VolumeInfo](#) (p. 151)
- [VolumeRecoveryPointInfo](#) (p. 151)
- [VolumeiSCSIAttributes](#) (p. 152)

CachediSCSIVolume

Description

No action documentation available.

Contents

SourceSnapshotId

Type: String

Required: No

VolumeARN

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: No

VolumeId

Type: String

Length constraints: Minimum length of 12. Maximum length of 30.

Required: No

VolumeProgress

Type: Double

Required: No

VolumeSizeInBytes

Type: Long

Required: No

VolumeStatus

Type: String

Length constraints: Minimum length of 3. Maximum length of 50.

Required: No

VolumeType

Type: String

Length constraints: Minimum length of 3. Maximum length of 100.

Required: No

VolumeiSCSIAttributes

Lists iSCSI information about a volume.

Type: [VolumeiSCSIAttributes \(p. 152\)](#) object

Required: No

ChapInfo

Description

Describes Challenge-Handshake Authentication Protocol (CHAP) information that supports authentication between your gateway and iSCSI initiators.

Contents

InitiatorName

The iSCSI initiator that connects to the target.

Type: String

Length constraints: Minimum length of 1. Maximum length of 255.

Required: No

SecretToAuthenticateInitiator

The secret key that the initiator (e.g. Windows client) must provide to participate in mutual CHAP with the target.

Type: String

Length constraints: Minimum length of 12. Maximum length of 16.

Required: No

SecretToAuthenticateTarget

The secret key that the target must provide to participate in mutual CHAP with the initiator (e.g. Windows client).

Type: String

Length constraints: Minimum length of 12. Maximum length of 16.

Required: No

TargetARN

The Amazon Resource Name (ARN) of the volume.

Valid Values: 50 to 500 lowercase letters, numbers, periods (.), and hyphens (-).

Type: String

Length constraints: Minimum length of 50. Maximum length of 800.

Required: No

DeviceiSCSIAttributes

Description

Lists iSCSI information about a VTL device.

Contents

ChapEnabled

Indicates whether mutual CHAP is enabled for the iSCSI target.

Type: Boolean

Required: No

NetworkInterfaceId

The network interface identifier of the VTL device.

Type: String

Required: No

NetworkInterfacePort

The port used to communicate with iSCSI VTL device targets.

Type: Number

Required: No

TargetARN

Specifies the unique Amazon Resource Name(ARN) that encodes the iSCSI qualified name(iqn) of a tape drive or media changer target.

Type: String

Length constraints: Minimum length of 50. Maximum length of 800.

Required: No

Disk

Description

No action documentation available.

Contents

DiskAllocationResource

Type: String

Required: No

DiskAllocationType

Type: String

Length constraints: Minimum length of 3. Maximum length of 100.

Required: No

DiskId

Type: String

Length constraints: Minimum length of 1. Maximum length of 300.

Required: No

DiskNode

Type: String

Required: No

DiskPath

Type: String

Required: No

DiskSizeInBytes

Type: Long

Required: No

GatewayInfo

Description

No action documentation available.

Contents

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 99\)](#) operation to return a list of gateways for your account and region.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: No

GatewayOperationalState

Type: String

Length constraints: Minimum length of 2. Maximum length of 25.

Required: No

GatewayType

Type: String

Length constraints: Minimum length of 2. Maximum length of 20.

Required: No

NetworkInterface

Description

Describes a gateway's network interface.

Contents

Ipv4Address

The Internet Protocol version 4 (IPv4) address of the interface.

Type: String

Required: No

Ipv6Address

The Internet Protocol version 6 (IPv6) address of the interface. *Currently not supported.*

Type: String

Required: No

MacAddress

The Media Access Control (MAC) address of the interface.

Note

This is currently unsupported and will not be returned in output.

Type: String

Required: No

StorageGatewayError

Description

Provides additional information about an error that was returned by the service as an or. See the `errorCode` and `errorDetails` members for more information about the error.

Contents

ErrorCode

Additional information about the error.

Type: String

Valid Values: `ActivationKeyExpired` | `ActivationKeyInvalid` | `ActivationKeyNotFound` | `GatewayInternalError` | `GatewayNotConnected` | `GatewayNotFound` | `GatewayProxyNetworkConnectionBusy` | `AuthenticationFailure` | `BandwidthThrottleScheduleNotFound` | `Blocked` | `CannotExportSnapshot` | `ChapCredentialNotFound` | `DiskAlreadyAllocated` | `DiskDoesNotExist` | `DiskSizeGreaterThanVolumeMaxSize` | `DiskSizeLessThanVolumeSize` | `DiskSizeNotGigAligned` | `DuplicateCertificateInfo` | `DuplicateSchedule` | `EndpointNotFound` | `IAMNotSupported` | `InitiatorInvalid` | `InitiatorNotFound` | `InternalError` | `InvalidGateway` | `InvalidEndpoint` | `InvalidParameters` | `InvalidSchedule` | `LocalStorageLimitExceeded` | `LunAlreadyAllocated` | `LunInvalid` | `MaximumContentLengthExceeded` | `MaximumTapeCartridgeCountExceeded` | `MaximumVolumeCountExceeded` | `NetworkConfigurationChanged` | `NoDisksAvailable` | `NotImplemented` | `NotSupported` | `OperationAborted` | `OutdatedGateway` | `ParametersNotImplemented` | `RegionInvalid` | `RequestTimeout` | `ServiceUnavailable` | `SnapshotDeleted` | `SnapshotIdInvalid` | `SnapshotInProgress` | `SnapshotNotFound` | `SnapshotScheduleNotFound` | `StagingAreaFull` | `StorageFailure` | `TapeCartridgeNotFound` | `TargetAlreadyExists` | `TargetInvalid` | `TargetNotFound` | `UnauthorizedOperation` | `VolumeAlreadyExists` | `VolumeIdInvalid` | `VolumeInUse` | `VolumeNotFound` | `VolumeNotReady`

Required: No

ErrorDetails

Human-readable text that provides detail about the error that occurred.

Type: String to String map

Required: No

StorediSCSIVolume

Description

No action documentation available.

Contents

PreservedExistingData

Type: Boolean

Required: No

SourceSnapshotId

Type: String

Required: No

VolumeARN

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: No

VolumeDiskId

Type: String

Length constraints: Minimum length of 1. Maximum length of 300.

Required: No

VolumeId

Type: String

Length constraints: Minimum length of 12. Maximum length of 30.

Required: No

VolumeProgress

Type: Double

Required: No

VolumeSizeInBytes

Type: Long

Required: No

VolumeStatus

Type: String

Length constraints: Minimum length of 3. Maximum length of 50.

Required: No

VolumeType

Type: String

Length constraints: Minimum length of 3. Maximum length of 100.

Required: No

VolumeiSCSIAttributes

Lists iSCSI information about a volume.

Type: [VolumeiSCSIAttributes](#) (p. 152) object

Required: No

Tape

Description

Describes a virtual tape object.

Contents

Progress

For archiving virtual tapes, indicates how much data remains to be uploaded before archiving is complete.

Range: 0 (not started) to 100 (complete).

Type: Double

Required: No

TapeARN

The Amazon Resource Name (ARN) of the virtual tape.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: No

TapeBarcode

The barcode that identifies a specific virtual tape.

Type: String

Length constraints: Minimum length of 8. Maximum length of 16.

Required: No

TapeSizeInBytes

The size, in bytes, of the virtual tape.

Type: Long

Required: No

TapeStatus

The current state of the virtual tape.

Type: String

Required: No

VTLDevice

The virtual tape library (VTL) device that the virtual tape is associated with.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: No

TapeArchive

Description

Represents a virtual tape that is archived in the virtual tape shelf (VTS).

Contents

CompletionTime

The time that the archiving of the virtual tape was completed.

The string format of the completion time is in the ISO8601 extended YYYY-MM-DD'T'HH:MM:SS'Z' format.

Type: DateTime

Required: No

RetrievedTo

The Amazon Resource Name (ARN) of the gateway-VTL that the virtual tape is being retrieved to.

The virtual tape is retrieved from the virtual tape shelf (VTS).

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: No

TapeARN

The Amazon Resource Name (ARN) of an archived virtual tape.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: No

TapeBarcode

The barcode that identifies the archived virtual tape.

Type: String

Length constraints: Minimum length of 8. Maximum length of 16.

Required: No

TapeSizeInBytes

The size, in bytes, of the archived virtual tape.

Type: Long

Required: No

TapeStatus

The current state of the archived virtual tape.

Type: String

Required: No

TapeRecoveryPointInfo

Description

Describes a recovery point.

Contents

TapeARN

The Amazon Resource Name (ARN) of the virtual tape.

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: No

TapeRecoveryPointTime

The time when the point-in-time view of the virtual tape was replicated for later recovery.

The string format of the tape recovery point time is in the ISO8601 extended 'YYYY-MM-DD'T'HH:MM:SS'Z' format.

Type: DateTime

Required: No

TapeSizeInBytes

The size, in bytes, of the virtual tapes to recover.

Type: Long

Required: No

TapeStatus

Type: String

Required: No

VTLDevice

Description

Represents a device object associated with a gateway-VTL.

Contents

DeviceiSCSIAttributes

A list of iSCSI information about a VTL device.

Type: [DeviceiSCSIAttributes](#) (p. 143) object

Required: No

VTLDeviceARN

Specifies the unique Amazon Resource Name (ARN) of the device (tape drive or media changer).

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: No

VTLDeviceProductIdentifier

Type: String

Required: No

VTLDeviceType

Type: String

Required: No

VTLDeviceVendor

Type: String

Required: No

VolumInfo

Description

No action documentation available.

Contents

VolumeARN

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: No

VolumeType

Type: String

Length constraints: Minimum length of 3. Maximum length of 100.

Required: No

VolumeRecoveryPointInfo

Description

No action documentation available.

Contents

VolumeARN

Type: String

Length constraints: Minimum length of 50. Maximum length of 500.

Required: No

VolumeRecoveryPointTime

Type: String

Required: No

VolumeSizeInBytes

Type: Long

Required: No

VolumeUsageInBytes

Type: Long

Required: No

VolumeiSCSIAttributes

Description

Lists iSCSI information about a volume.

Contents

ChapEnabled

Indicates whether mutual CHAP is enabled for the iSCSI target.

Type: Boolean

Required: No

LunNumber

The logical disk number.

Type: Number

Required: No

NetworkInterfaceId

The network interface identifier.

Type: String

Required: No

NetworkInterfacePort

The port used to communicate with iSCSI targets.

Type: Number

Required: No

TargetARN

The Amazon Resource Name (ARN) of the volume target.

Type: String

Length constraints: Minimum length of 50. Maximum length of 800.

Required: No

Common Parameters

This section lists the request parameters that all actions use. Any action-specific parameters are listed in the topic for the action.

Action

The action to be performed.

Default: None

Type: string

Required: Yes

AuthParams

The parameters that are required to authenticate a Conditional request. Contains:

- `AWSSignatureVersion`
- `SignatureVersion`
- `Timestamp`
- `Signature`

Default: None

Required: Conditional

AWSSignatureVersion

The access key ID that corresponds to the secret access key that you used to sign the request.

Default: None

Type: string

Required: Yes

Expires

The date and time when the request signature expires, expressed in the format `YYYY-MM-DDThh:mm:ssZ`, as specified in the ISO 8601 standard.

Condition: Requests must include either *Timestamp* or *Expires*, but not both.

Default: None

Type: string

Required: Conditional

SecurityToken

The temporary security token that was obtained through a call to AWS Security Token Service. For a list of services that support AWS Security Token Service, go to [Using Temporary Security Credentials to Access AWS](#) in **Using Temporary Security Credentials**.

Default: None

Type: string

Required: No

Signature

The digital signature that you created for the request. For information about generating a signature, go to the service's developer documentation.

Default: None

Type: string

Required: Yes

SignatureMethod

The hash algorithm that you used to create the request signature.

Default: None

Type: string

Valid Values: HmacSHA256 | HmacSHA1

Required: Yes

SignatureVersion

The signature version you use to sign the request. Set this to the value that is recommended for your service.

Default: None

Type: string

Required: Yes

Timestamp

The date and time when the request was signed, expressed in the format YYYY-MM-DDThh:mm:ssZ, as specified in the ISO 8601 standard.

Condition: Requests must include either *Timestamp* or *Expires*, but not both.

Default: None

Type: string

Required: Conditional

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Default: None

Type: string

Required: Yes

Common Errors

This section lists the common errors that all actions return. Any action-specific errors are listed in the topic for the action.

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

Throttling

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