
AWS Storage Gateway Service

API Reference

API Version 2013-06-30



AWS Storage Gateway Service: API Reference

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Table of Contents

Welcome	1
Actions	2
ActivateGateway	4
Request Syntax	4
Request Parameters	4
Response Syntax	5
Response Elements	5
Errors	5
Example	6
AddCache	7
Request Syntax	7
Request Parameters	7
Response Syntax	7
Response Elements	7
Errors	7
Example	8
AddTagsToResource	10
Request Syntax	10
Request Parameters	10
Response Syntax	10
Response Elements	11
Errors	11
AddUploadBuffer	12
Request Syntax	12
Request Parameters	12
Response Syntax	12
Response Elements	12
Errors	12
AddWorkingStorage	14
Request Syntax	14
Request Parameters	14
Response Syntax	14
Response Elements	14
Errors	15
Example	15
CancelArchival	17
Request Syntax	17
Request Parameters	17
Response Syntax	17
Response Elements	17
Errors	17
CancelRetrieval	19
Request Syntax	19
Request Parameters	19
Response Syntax	19
Response Elements	19
Errors	19
CreateCachediSCSIVolume	21
Request Syntax	21
Request Parameters	21
Response Syntax	22
Response Elements	22
Errors	22
Example	22
CreateSnapshot	24

Request Syntax	24
Request Parameters	24
Response Syntax	24
Response Elements	25
Errors	25
Example	25
CreateSnapshotFromVolumeRecoveryPoint	27
Request Syntax	27
Request Parameters	27
Response Syntax	27
Response Elements	27
Errors	28
Example	28
CreateStorediSCSIVolume	30
Request Syntax	30
Request Parameters	30
Response Syntax	31
Response Elements	31
Errors	32
Example	32
CreateTapes	34
Request Syntax	34
Request Parameters	34
Response Syntax	35
Response Elements	35
Errors	35
Example	35
CreateTapeWithBarcode	37
Request Syntax	37
Request Parameters	37
Response Syntax	37
Response Elements	37
Errors	38
Example	38
DeleteBandwidthRateLimit	39
Request Syntax	39
Request Parameters	39
Response Syntax	39
Response Elements	39
Errors	40
Example	40
DeleteChapCredentials	41
Request Syntax	41
Request Parameters	41
Response Syntax	41
Response Elements	41
Errors	42
Example	42
DeleteGateway	44
Request Syntax	44
Request Parameters	44
Response Syntax	44
Response Elements	44
Errors	45
Example	45
DeleteSnapshotSchedule	46
Request Syntax	46
Request Parameters	46

Response Syntax	46
Response Elements	46
Errors	46
Example	47
DeleteTape	48
Request Syntax	48
Request Parameters	48
Response Syntax	48
Response Elements	48
Errors	48
Example	49
DeleteTapeArchive	50
Request Syntax	50
Request Parameters	50
Response Syntax	50
Response Elements	50
Errors	50
DeleteVolume	52
Request Syntax	52
Request Parameters	52
Response Syntax	52
Response Elements	52
Errors	53
Example	53
DescribeBandwidthRateLimit	54
Request Syntax	54
Request Parameters	54
Response Syntax	54
Response Elements	54
Errors	55
Example	55
DescribeCache	57
Request Syntax	57
Request Parameters	57
Response Syntax	57
Response Elements	57
Errors	58
Example	58
DescribeCachediSCSIVolumes	60
Request Syntax	60
Request Parameters	60
Response Syntax	60
Response Elements	60
Errors	61
Example	61
DescribeChapCredentials	63
Request Syntax	63
Request Parameters	63
Response Syntax	63
Response Elements	63
Errors	64
Example	64
DescribeGatewayInformation	66
Request Syntax	66
Request Parameters	66
Response Syntax	66
Response Elements	66
Errors	67

Example	68
DescribeMaintenanceStartTime	69
Request Syntax	69
Request Parameters	69
Response Syntax	69
Response Elements	69
Errors	70
Example	70
DescribeSnapshotSchedule	72
Request Syntax	72
Request Parameters	72
Response Syntax	72
Response Elements	72
Errors	73
Example	73
DescribeStorediSCSIVolumes	75
Request Syntax	75
Request Parameters	75
Response Syntax	75
Response Elements	76
Errors	76
Example	76
DescribeTapeArchives	78
Request Syntax	78
Request Parameters	78
Response Syntax	78
Response Elements	79
Errors	79
Example	79
DescribeTapeRecoveryPoints	81
Request Syntax	81
Request Parameters	81
Response Syntax	81
Response Elements	82
Errors	82
DescribeTapes	83
Request Syntax	83
Request Parameters	83
Response Syntax	84
Response Elements	84
Errors	84
Example	84
DescribeUploadBuffer	86
Request Syntax	86
Request Parameters	86
Response Syntax	86
Response Elements	86
Errors	87
Example	87
DescribeVTLDevices	89
Request Syntax	89
Request Parameters	89
Response Syntax	89
Response Elements	90
Errors	90
Example	91
DescribeWorkingStorage	93
Request Syntax	93

Request Parameters	93
Response Syntax	93
Response Elements	93
Errors	94
Example	94
DisableGateway	96
Request Syntax	96
Request Parameters	96
Response Syntax	96
Response Elements	96
Errors	96
ListGateways	98
Request Syntax	98
Request Parameters	98
Response Syntax	98
Response Elements	98
Errors	99
Example	99
ListLocalDisks	101
Request Syntax	101
Request Parameters	101
Response Syntax	101
Response Elements	101
Errors	102
Example	102
ListTagsForResource	104
Request Syntax	104
Request Parameters	104
Response Syntax	104
Response Elements	104
Errors	105
ListTapes	106
Request Syntax	106
Request Parameters	106
Response Syntax	106
Response Elements	107
Errors	107
Example	107
ListVolumeInitiators	109
Request Syntax	109
Request Parameters	109
Response Syntax	109
Response Elements	109
Errors	109
ListVolumeRecoveryPoints	111
Request Syntax	111
Request Parameters	111
Response Syntax	111
Response Elements	111
Errors	112
Example	112
ListVolumes	114
Request Syntax	114
Request Parameters	114
Response Syntax	114
Response Elements	115
Errors	115
Example	115

RemoveTagsFromResource	117
Request Syntax	117
Request Parameters	117
Response Syntax	117
Response Elements	117
Errors	117
ResetCache	119
Request Syntax	119
Request Parameters	119
Response Syntax	119
Response Elements	119
Errors	119
RetrieveTapeArchive	121
Request Syntax	121
Request Parameters	121
Response Syntax	121
Response Elements	121
Errors	122
Example	122
RetrieveTapeRecoveryPoint	123
Request Syntax	123
Request Parameters	123
Response Syntax	123
Response Elements	123
Errors	124
SetLocalConsolePassword	125
Request Syntax	125
Request Parameters	125
Response Syntax	125
Response Elements	125
Errors	126
ShutdownGateway	127
Request Syntax	127
Request Parameters	127
Response Syntax	127
Response Elements	127
Errors	128
Example	128
StartGateway	130
Request Syntax	130
Request Parameters	130
Response Syntax	130
Response Elements	130
Errors	131
Example	131
UpdateBandwidthRateLimit	132
Request Syntax	132
Request Parameters	132
Response Syntax	132
Response Elements	132
Errors	133
Example	133
UpdateChapCredentials	135
Request Syntax	135
Request Parameters	135
Response Syntax	136
Response Elements	136
Errors	136

Example	136
UpdateGatewayInformation	138
Request Syntax	138
Request Parameters	138
Response Syntax	138
Response Elements	138
Errors	139
Example	139
UpdateGatewaySoftwareNow	141
Request Syntax	141
Request Parameters	141
Response Syntax	141
Response Elements	141
Errors	142
Example	142
UpdateMaintenanceStartTime	143
Request Syntax	143
Request Parameters	143
Response Syntax	143
Response Elements	144
Errors	144
Example	144
UpdateSnapshotSchedule	146
Request Syntax	146
Request Parameters	146
Response Syntax	146
Response Elements	147
Errors	147
Example	147
UpdateVTLDeviceType	149
Request Syntax	149
Request Parameters	149
Response Syntax	149
Response Elements	149
Errors	149
Data Types	151
CachediSCSIVolume	152
Contents	152
ChapInfo	153
Contents	153
DeviceiSCSIAttributes	154
Contents	154
Disk	155
Contents	155
GatewayInfo	156
Contents	156
NetworkInterface	157
Contents	157
StorageGatewayError	158
Contents	158
StorediSCSIVolume	159
Contents	159
Tag	161
Contents	161
Tape	162
Contents	162
TapeArchive	163
Contents	163

TapeInfo	164
Contents	164
TapeRecoveryPointInfo	165
Contents	165
VolumeInfo	166
Contents	166
VolumeiSCSIAttributes	167
Contents	167
VolumeRecoveryPointInfo	168
Contents	168
VTLDevice	169
Contents	169
Common Parameters	170
Common Errors	172

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 s and endpoints available for use with AWS Storage Gateway.

Note

AWS Storage Gateway resource IDs are in uppercase. When you use these resource IDs with the Amazon EC2 API, EC2 expects resource IDs in lowercase. You must change your resource ID to lowercase to use it with the EC2 API. For example, in Storage Gateway the ID for a volume might be `vol-1122AABB`. When you use this ID with the EC2 API, you must change it to `vol-1122aabb`. Otherwise, the EC2 API might not behave as expected.

Important

IDs for Storage Gateway volumes and Amazon EBS snapshots created from gateway volumes are changing to a longer format. Starting in December 2016, all new volumes and snapshots will be created with a 17-character string. Starting in April 2016, you will be able to use these longer IDs so you can test your systems with the new format. For more information, see [Longer EC2 and EBS Resource IDs](#).

For example, a volume ARN with the longer volume ID format will look like this:

```
arn:aws:storagegateway:us-west-2:111122223333:gateway/sgw-12A3456B/volume/vol-1122AABBCCDDEEFFG.
```

A snapshot ID with the longer ID format will look like this: `snap-78e226633445566ee`.

For more information, see [Announcement: Heads-up – Longer AWS Storage Gateway volume and snapshot IDs coming in 2016](#).

This document was last published on December 9, 2016.

Actions

The following actions are supported:

- [ActivateGateway](#) (p. 4)
- [AddCache](#) (p. 7)
- [AddTagsToResource](#) (p. 10)
- [AddUploadBuffer](#) (p. 12)
- [AddWorkingStorage](#) (p. 14)
- [CancelArchival](#) (p. 17)
- [CancelRetrieval](#) (p. 19)
- [CreateCachediSCSIVolume](#) (p. 21)
- [CreateSnapshot](#) (p. 24)
- [CreateSnapshotFromVolumeRecoveryPoint](#) (p. 27)
- [CreateStorediSCSIVolume](#) (p. 30)
- [CreateTapes](#) (p. 34)
- [CreateTapeWithBarcode](#) (p. 37)
- [DeleteBandwidthRateLimit](#) (p. 39)
- [DeleteChapCredentials](#) (p. 41)
- [DeleteGateway](#) (p. 44)
- [DeleteSnapshotSchedule](#) (p. 46)
- [DeleteTape](#) (p. 48)
- [DeleteTapeArchive](#) (p. 50)
- [DeleteVolume](#) (p. 52)
- [DescribeBandwidthRateLimit](#) (p. 54)
- [DescribeCache](#) (p. 57)
- [DescribeCachediSCSIVolumes](#) (p. 60)
- [DescribeChapCredentials](#) (p. 63)
- [DescribeGatewayInformation](#) (p. 66)
- [DescribeMaintenanceStartTime](#) (p. 69)
- [DescribeSnapshotSchedule](#) (p. 72)
- [DescribeStorediSCSIVolumes](#) (p. 75)
- [DescribeTapeArchives](#) (p. 78)
- [DescribeTapeRecoveryPoints](#) (p. 81)

- [DescribeTapes](#) (p. 83)
- [DescribeUploadBuffer](#) (p. 86)
- [DescribeVTLDevices](#) (p. 89)
- [DescribeWorkingStorage](#) (p. 93)
- [DisableGateway](#) (p. 96)
- [ListGateways](#) (p. 98)
- [ListLocalDisks](#) (p. 101)
- [ListTagsForResource](#) (p. 104)
- [ListTapes](#) (p. 106)
- [ListVolumeInitiators](#) (p. 109)
- [ListVolumeRecoveryPoints](#) (p. 111)
- [ListVolumes](#) (p. 114)
- [RemoveTagsFromResource](#) (p. 117)
- [ResetCache](#) (p. 119)
- [RetrieveTapeArchive](#) (p. 121)
- [RetrieveTapeRecoveryPoint](#) (p. 123)
- [SetLocalConsolePassword](#) (p. 125)
- [ShutdownGateway](#) (p. 127)
- [StartGateway](#) (p. 130)
- [UpdateBandwidthRateLimit](#) (p. 132)
- [UpdateChapCredentials](#) (p. 135)
- [UpdateGatewayInformation](#) (p. 138)
- [UpdateGatewaySoftwareNow](#) (p. 141)
- [UpdateMaintenanceStartTime](#) (p. 143)
- [UpdateSnapshotSchedule](#) (p. 146)
- [UpdateVTLDeviceType](#) (p. 149)

ActivateGateway

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 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 \(p. 138\)](#).

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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

ActivationKey (p. 4)

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 (p. 4)

The name you configured for your gateway.

Type: String

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

Pattern: `^[-\.0-[\]\-\~]*[!-\.\.0-[\]\-\~][-\.0-[\]\-\~]*$`

Required: Yes

GatewayRegion (p. 4)

A value 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-northeast-2", "ap-southeast-1", "ap-southeast-2", "sa-east-1"

Type: String

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

Required: Yes

GatewayTimezone (p. 4)

A value 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 (p. 4)

A value 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 (p. 4)

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 (p. 4)

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

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

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

GatewayARN (p. 5)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
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/sgw-11A2222B"
}
```


AddCache

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

DiskIds (p. 7)

Type: array of Strings

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

Required: Yes

GatewayARN (p. 7)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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

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

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

GatewayARN (p. 7)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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. 172).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/sgw-12A3456B"
  "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: gur28r2rqlgb8vvs0mq17hlgijlq8glle1qeu3kpgg6f0kstauu0
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/sgw-12A3456B"
}
```


AddTagsToResource

Adds one or more tags to the specified resource. You use tags to add metadata to resources, which you can use to categorize these resources. For example, you can categorize resources by purpose, owner, environment, or team. Each tag consists of a key and a value, which you define. You can add tags to the following AWS Storage Gateway resources:

- Storage gateways of all types
- Storage Volumes
- Virtual Tapes

You can create a maximum of 10 tags for each resource. Virtual tapes and storage volumes that are recovered to a new gateway maintain their tags.

Request Syntax

```
{
  "ResourceARN": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

ResourceARN (p. 10)

The Amazon Resource Name (ARN) of the resource you want to add tags to.

Type: String

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

Required: Yes

Tags (p. 10)

The key-value pair that represents the tag you want to add to the resource. The value can be an empty string.

Note

Valid characters for key and value are letters, spaces, and numbers representable in UTF-8 format, and the following special characters: + - = . _ : / @.

Type: array of [Tag](#) (p. 161) objects

Required: Yes

Response Syntax

```
{
```

```
"ResourceARN": "string"  
}
```

Response Elements

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

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

ResourceARN (p. 10)

The Amazon Resource Name (ARN) of the resource you want to add tags to.

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

AddUploadBuffer

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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

DiskIds (p. 12)

Type: array of Strings

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

Required: Yes

GatewayARN (p. 12)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

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

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

GatewayARN (p. 12)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

AddWorkingStorage

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 in cached-volumes API version 20120630. Use [AddUploadBuffer \(p. 12\)](#) instead.

Note

Working storage is also referred to as upload buffer. You can also use the [AddUploadBuffer \(p. 12\)](#) 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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

DiskIds (p. 14)

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 \(p. 101\)](#) API.

Type: array of Strings

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

Required: Yes

GatewayARN (p. 14)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

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

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

GatewayARN (p. 14)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.AddWorkingStorage
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/sgw-12A3456B"
  "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: 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/sgw-12A3456B"
}
```



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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 17)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 (p. 17)

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

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

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

TapeARN (p. 17)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 19)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 (p. 19)

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

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

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

TapeARN (p. 19)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

CreateCachediSCSIVolume

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 \(p. 7\)](#) 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",
  "SourceVolumeARN": "string",
  "TargetName": "string",
  "VolumeSizeInBytes": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

ClientToken (p. 21)

Type: String

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

Required: Yes

GatewayARN (p. 21)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 (p. 21)

Type: String

Pattern: `\A(25[0-5]|2[0-4]\d|[0-1]?\d?\d)(\.(25[0-5]|2[0-4]\d|[0-1]?\d?\d))\{3\}\z`

Required: Yes

SnapshotId (p. 21)

Type: String

Pattern: `\Asnap-([0-9A-Fa-f]{8}|[0-9A-Fa-f]{17})\z`

Required: No

SourceVolumeARN (p. 21)

Type: String

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

Required: No

TargetName (p. 21)

Type: String

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

Pattern: `^[-\.,;a-z0-9]+$`

Required: Yes

VolumeSizeInBytes (p. 21)

Type: Long

Required: Yes

Response Syntax

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

Response Elements

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

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

TargetARN (p. 22)

Type: String

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

VolumeARN (p. 22)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/sgw-12A3456B",
  "NetworkInterfaceId": "10.1.1.1",
  "TargetName": "myvolume",
  "VolumeSizeInBytes": 536870912000
}
```

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: 263
{
  "TargetARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/sgw-12A3456B/target/iqn.1997-05.com.amazon:myvolume",
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/sgw-12A3456B/volume/vol-1122AABB"
}
```

CreateSnapshot

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, see DescribeSnapshots or DeleteSnapshot in the [EC2 API reference](#).

Important

Volume and snapshot IDs are changing to a longer length ID format. For more information, see the important note on the [Welcome](#) page.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

SnapshotDescription (p. 24)

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 (p. 24)

The Amazon Resource Name (ARN) of the volume. Use the [ListVolumes \(p. 114\)](#) 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

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

SnapshotId (p. 24)

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. 30)).

Type: String

Pattern: `\Asnap-([0-9A-Fa-f]{8}|[0-9A-Fa-f]{17})\z`

VolumeARN (p. 24)

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. 172).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

ServiceUnavailableError

An internal server error has occurred because the service is unavailable. For more information, see the error and message fields.

HTTP Status Code: 400

Example

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/  
sgw-12A3456B/volume/vol-1122AABB",  
  "SnapshotDescription": "snapshot description"  
}
```

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: 128  
{  
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/  
sgw-12A3456B/volume/vol-1122AABB",  
  "SnapshotId": "snap-78e22663"  
}
```

CreateSnapshotFromVolumeRecoveryPoint

Initiates a snapshot of a gateway from a volume recovery point. This operation is supported only for the gateway-cached volume architecture.

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. 111).

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

SnapshotDescription (p. 27)

Type: String

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

Required: Yes

VolumeARN (p. 27)

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

SnapshotId (p. 27)

Type: String

Pattern: \Asnap-([0-9A-Fa-f]{8}|[0-9A-Fa-f]{17})\z

VolumeARN (p. 27)

Type: String

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

VolumeRecoveryPointTime (p. 27)

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

ServiceUnavailableError

An internal server error has occurred because the service is unavailable. For more information, see the error and message fields.

HTTP Status Code: 400

Example

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=9cd5a3584d1d67d57e61f120f35102d6b3649066abdd4bf4bbcf05bd9f2f8fe2
x-amz-date: 20120912T120000Z
x-amz-target: StorageGateway_20120630.CreateSnapshotFromVolumeRecoveryPoint

{
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/sgw-12A3456B/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/
sgw-12A3456B/volume/vol-1122AABB",
  "VolumeRecoveryPointTime": "2012-06-30T10:10:10.000Z"
}
```

CreateStorediSCSIVolume

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",
  "SourceVolumeARN": "string",
  "TargetName": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

DiskId (p. 30)

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 (p. 30)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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 (p. 30)

The network interface of the gateway on which to expose the iSCSI target. Only IPv4 addresses are accepted. Use [DescribeGatewayInformation](#) (p. 66) to get a list of the network interfaces available on a gateway.

Valid Values: A valid IP address.

Type: String

Pattern: `\A(25[0-5]|2[0-4]\d|[0-1]?\d?\d)(\.(25[0-5]|2[0-4]\d|[0-1]?\d?\d))\{3}\z`

Required: Yes

PreserveExistingData (p. 30)

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 (p. 30)

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

Pattern: \Asnap-[0-9A-Fa-f]{8}|[0-9A-Fa-f]{17}\z

Required: No

SourceVolumeARN (p. 30)

Type: String

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

Required: No

TargetName (p. 30)

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/sgw-12A3456B/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.

Pattern: ^[-\. ;a-z0-9]+\$

Required: Yes

Response Syntax

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

Response Elements

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

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

TargetARN (p. 31)

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 (p. 31)

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

Type: String

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

VolumeSizeInBytes (p. 31)

The size of the volume in bytes.

Type: Long

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.CreateStorediSCSIVolume
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/
sgw-12A3456B",
  "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/
sgw-12A3456B/volume/vol-1122AABB",
```

AWS Storage Gateway Service API Reference
Example

```
"VolumeSizeInBytes": 1099511627776,  
"TargetARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/  
sgw-12A3456B/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 \(p. 7\)](#) 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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

ClientToken (p. 34)

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 (p. 34)

The unique Amazon Resource Name (ARN) that represents the gateway to associate the virtual tapes with. Use the [ListGateways \(p. 98\)](#) 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 (p. 34)

The number of virtual tapes that you want to create.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: Yes

TapeBarcodePrefix (p. 34)

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

Note

The prefix must be 1 to 4 characters in length and must be one of the uppercase letters from A to Z.

Type: String

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

Pattern: `^[A-Z]*$`

Required: Yes

[TapeSizeInBytes \(p. 34\)](#)

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

Note

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

Type: Long

Required: Yes

Response Syntax

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

Response Elements

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

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

[TapeARNs \(p. 35\)](#)

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

Type: array of Strings

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

Create tapes in a gateway-VTL

In the following request, you add three virtual tape cartridges, 100 GB each in size, to the gateway-VTL with the ID `sgw-12A3456B`. The tapes appear in the gateway's virtual tape library. In the request, you set the tape's barcode prefix to "TEST".

Sample Request

```
{
```

```
"GatewayARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/  
sgw-12A3456B",  
"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-1:123456789012:tape/TEST3AA29F",  
    "arn:aws:storagegateway:us-east-1:123456789012:tape/TEST3BA29E" ]  
}
```

CreateTapeWithBarcode

Creates a virtual tape by using your own barcode. You write data to the virtual tape and then archive the tape.

Note

Cache storage must be allocated to the gateway before you can create a virtual tape. Use the [AddCache \(p. 7\)](#) operation to add cache storage to a gateway.

Request Syntax

```
{
  "GatewayARN": "string",
  "TapeBarcode": "string",
  "TapeSizeInBytes": number
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 37)

The unique Amazon Resource Name (ARN) that represents the gateway to associate the virtual tape with. Use the [ListGateways \(p. 98\)](#) 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

TapeBarcode (p. 37)

The barcode that you want to assign to the tape.

Type: String

Length Constraints: Minimum length of 7. Maximum length of 16.

Pattern: `^[A-Z0-9]*$`

Required: Yes

TapeSizeInBytes (p. 37)

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

Note

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

Type: Long

Required: Yes

Response Syntax

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

Response Elements

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

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

TapeARN (p. 37)

A unique Amazon Resource Name (ARN) that represents the virtual tape that was created.

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. 172).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

Create a tape with your own barcode in a gateway-VTL

In the following request, you add a 100 GB tape cartridge to the gateway-VTL with the ID `sgw-12A3456B`. The tape appears in the gateway's virtual tape library. In the request, you set the barcode to `"TEST12345"`.

Sample Request

```
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/sgw-12A3456B",
  "TapeSizeInBytes": 107374182400,
  "TapeBarcode": "TEST12345"
}
```

Sample Response

```
{ "TapeARN":
  [ "arn:aws:storagegateway:us-east-1:999999999999:tape/TEST12345" ]
}
```


DeleteBandwidthRateLimit

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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

BandwidthType (p. 39)

One of the BandwidthType values that indicates the gateway bandwidth rate limit to delete.

Valid Values: Upload, Download, All.

Type: String

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

Required: Yes

GatewayARN (p. 39)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

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

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

GatewayARN (p. 39)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B",
  "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
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/
sgw-12A3456B"
}
```

DeleteChapCredentials

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

InitiatorName (p. 41)

The iSCSI initiator that connects to the target.

Type: String

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

Pattern: [0-9a-z:.-]+

Required: Yes

TargetARN (p. 41)

The Amazon Resource Name (ARN) of the iSCSI volume target. Use the [DescribeStorediSCSIVolumes](#) (p. 75) 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

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

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

InitiatorName (p. 41)

The iSCSI initiator that connects to the target.

Type: String

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

Pattern: [0-9a-z:.-]+

TargetARN (p. 41)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B/target/iqn.1997-05.com.amazon:myvolume",
  "InitiatorName":
  "iqn.1991-05.com.microsoft:computername.domain.example.com"
}
```

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/
sgw-12A3456B/target/iqn.1997-05.com.amazon:myvolume",
  "InitiatorName":
  "iqn.1991-05.com.microsoft:computername.domain.example.com"
}
```



DeleteGateway

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

GatewayARN (p. 44)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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

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

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

GatewayARN (p. 44)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B"
}
```

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/
sgw-12A3456B"
}
```

DeleteSnapshotSchedule

Deletes a snapshot of a volume.

You can take snapshots of your gateway volumes on a scheduled or ad hoc basis. This API action 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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

VolumeARN (p. 46)

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

VolumeARN (p. 46)

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. 172).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/sgw-12A3456B/volume/vol-1122AABB"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rqlgb8vvs0mq17hlgijlq8glle1qeu3kpgg6f0kstauu0
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/sgw-12A3456B/volume/vol-1122AABB"
}
```

DeleteTape

Deletes the specified virtual tape.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 48)

The unique Amazon Resource Name (ARN) of the gateway that the virtual tape to delete is associated with. Use the [ListGateways \(p. 98\)](#) 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 (p. 48)

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

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

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

TapeARN (p. 48)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

Delete a tape from a gateway

The following example deletes a tape from a gateway-VTL with id sgw-12A3456B. 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: CSOC7TJPLR00OKIRLG0HVAICUFVV4KQNSO5AEMVJF66Q9EXAMPLE
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DeleteTape
{"GatewayARN": "arn:aws:storagegateway:us-east-1:123456789012:gateway/sgw-12A3456B",
 "TapeARN": "arn:aws:storagegateway:us-east-1:123456789012:tape/TEST05A2A0" }
```

Sample Response

```
{"TapeARN": "arn:aws:storagegateway:us-east-1:123456789012:tape/TEST05A2A0" }
```

DeleteTapeArchive

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

TapeARN (p. 50)

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

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

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

TapeARN (p. 50)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

DeleteVolume

Deletes the specified gateway volume that you previously created using the [CreateCachediSCSIVolume \(p. 21\)](#) or [CreateStorediSCSIVolume \(p. 30\)](#) 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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

VolumeARN (p. 52)

The Amazon Resource Name (ARN) of the volume. Use the [ListVolumes \(p. 114\)](#) 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

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

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

VolumeARN (p. 52)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B/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/
sgw-12A3456B/volume/vol-1122AABB"
}
```

DescribeBandwidthRateLimit

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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 54)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

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

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

AverageDownloadRateLimitInBitsPerSec (p. 54)

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

Valid Range: Minimum value of 102400.

AverageUploadRateLimitInBitsPerSec (p. 54)

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

Valid Range: Minimum value of 51200.

GatewayARN (p. 54)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.DescribeBandwidthRateLimit
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/sgw-12A3456B"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
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/sgw-12A3456B",
  "AverageUploadRateLimitInBitsPerSec": 102400,
  "AverageDownloadRateLimitInBitsPerSec": 51200
}
```



DescribeCache

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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 57)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

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

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

CacheAllocatedInBytes (p. 57)

Type: Long

CacheDirtyPercentage (p. 57)

Type: Double

CacheHitPercentage (p. 57)

Type: Double

CacheMissPercentage (p. 57)

Type: Double

CacheUsedPercentage (p. 57)

Type: Double

DiskIds (p. 57)

Type: array of Strings

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

GatewayARN (p. 57)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/sgw-12A3456B"
}
```

Sample Response

AWS Storage Gateway Service API Reference
Example

```
HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rqlgb8vvs0mq17hlgijlq8glle1qeu3kpgg6f0kstauu0
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/sgw-12A3456B"
}
```

DescribeCachediSCSIVolumes

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

VolumeARNs (p. 60)

Type: array of Strings

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

Required: Yes

Response Syntax

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

Response Elements

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

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

CachediSCSIVolumes (p. 60)

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

Type: array of [CachediSCSIVolume \(p. 152\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/sgw-12A3456B/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: 664

{
  "CachediSCSIVolumes": [
```

```
{
  "VolumeiSCSIAttributes": {
    "ChapEnabled": true,
    "LunNumber": 0,
    "NetworkInterfaceId": "10.243.43.207",
    "NetworkInterfacePort": 3260,
    "TargetARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/
sgw-12A3456B/target/iqn.1997-05.com.amazon:myvolume"
  },
  "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/
sgw-12A3456B/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

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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

TargetARN (p. 63)

The Amazon Resource Name (ARN) of the iSCSI volume target. Use the [DescribeStorediSCSIVolumes \(p. 75\)](#) 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

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

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

ChapCredentials (p. 63)

An array of [ChapInfo \(p. 153\)](#) 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 (for example, the 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. 153) objects

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 172).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B/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
{
  "ChapCredentials": {
    "TargetARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/
sgw-12A3456B/target/iqn.1997-05.com.amazon:myvolume",
    "SecretToAuthenticateInitiator": "111111111111",
    "InitiatorName":
    "iqn.1991-05.com.microsoft:computername.domain.example.com",
```

```
    "SecretToAuthenticateTarget": "222222222222"  
  }  
}
```

DescribeGatewayInformation

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

GatewayARN (p. 66)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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",  
  "GatewayName": "string",  
  "GatewayNetworkInterfaces": [  
    {  
      "Ipv4Address": "string",  
      "Ipv6Address": "string",  
      "MacAddress": "string"  
    }  
  ],  
  "GatewayState": "string",  
  "GatewayTimezone": "string",  
  "GatewayType": "string",  
  "LastSoftwareUpdate": "string",  
  "NextUpdateAvailabilityDate": "string"  
}
```

Response Elements

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

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

GatewayARN (p. 66)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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 (p. 66)

The unique identifier assigned to your gateway during activation. This ID becomes part of the gateway Amazon Resource Name (ARN), which you use as input for other operations.

Type: String

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

GatewayName (p. 66)

The name you configured for your gateway.

Type: String

GatewayNetworkInterfaces (p. 66)

A [NetworkInterface \(p. 157\)](#) array that contains descriptions of the gateway network interfaces.

Type: array of [NetworkInterface \(p. 157\)](#) objects

GatewayState (p. 66)

A value that indicates the operating state of the gateway.

Type: String

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

GatewayTimezone (p. 66)

A value that indicates the time zone configured for the gateway.

Type: String

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

GatewayType (p. 66)

The type of the gateway.

Type: String

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

LastSoftwareUpdate (p. 66)

The date on which the last software update was applied to the gateway. If the gateway has never been updated, this field does not return a value in the response.

Type: String

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

NextUpdateAvailabilityDate (p. 66)

The date on 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B"
}
```

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/
sgw-12A3456B",
  "GatewayId": "sgw-AABB1122",
  "GatewayNetworkInterfaces": [ {"Ipv4Address": "10.35.69.216"} ],
  "GatewayState": "STATE_RUNNING",
  "GatewayTimezone": "GMT-8:00",
  "LastSoftwareUpdate": "2015-01-02T16:00:00",
  "NextUpdateAvailabilityDate": "2016-01-02T16:00:00"
}
```

DescribeMaintenanceStartTime

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

GatewayARN (p. 69)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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

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

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

DayOfWeek (p. 69)

An ordinal number between 0 and 6 that represents the day of the week, where 0 represents Sunday and 6 represents Saturday. The day of week is in the time zone of the gateway.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 6.

GatewayARN (p. 69)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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 (p. 69)

The hour component of the maintenance start time 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: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

MinuteOfHour (p. 69)

The minute component of the maintenance start time represented as *mm*, where *mm* is the minute (0 to 59). The minute of the hour is in the time zone of the gateway.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 59.

Timezone (p. 69)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B"
}
```

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: 136
```



```
{  
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/  
sgw-12A3456B",  
  "HourOfDay": 15,  
  "MinuteOfHour": 35,  
  "DayOfWeek": 2,  
  "Timezone": "GMT+7:00"  
}
```

DescribeSnapshotSchedule

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

VolumeARN (p. 72)

The Amazon Resource Name (ARN) of the volume. Use the [ListVolumes](#) (p. 114) 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

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

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

Description (p. 72)

Type: String

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

RecurrenceInHours (p. 72)

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 24.

StartAt (p. 72)

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

Timezone (p. 72)

Type: String

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

VolumeARN (p. 72)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/sgw-12A3456B/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/sgw-12A3456B/volume/vol-1122AABB",
  "StartAt": 6,
  "RecurrenceInHours": 24,
  "Description": "sgw-AABB1122:vol-AABB1122:Schedule",
  "Timezone": "GMT+7:00"
}
```



DescribeStorediSCSIVolumes

Returns the 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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

VolumeARNs (p. 75)

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. 114) to get volume ARNs for a gateway.

Type: array of Strings

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

Required: Yes

Response Syntax

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

Response Elements

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

StorediSCSIVolumes (p. 75)

Type: array of [StorediSCSIVolume \(p. 159\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B/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: 507
{
  "StorediSCSIVolumes": [
    {
      "VolumeiSCSIAttributes":
```

AWS Storage Gateway Service API Reference
Example

```
{
  "ChapEnabled": true,
  "NetworkInterfaceId": "10.243.43.207",
  "NetworkInterfacePort": 3260,
  "TargetARN": "arn:aws:storagegateway:us-
east-1:111122223333:gateway/sgw-12A3456B/target/
iqn.1997-05.com.amazon:myvolume"
},
"PreservedExistingData": false,
"VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/
sgw-12A3456B/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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

Limit (p. 78)

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

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Marker (p. 78)

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 (p. 78)

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

Type: array of Strings

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

Required: No

Response Syntax

```
{  
  "Marker": "string",  
  "TapeArchives": [  
    {  
      "CompletionTime": number,  
      "RetrievedTo": "string",  
      "TapeARN": "string",  
      "TapeBarcode": "string",  
      "TapeSizeInBytes": number,  
      "TapeStatus": "string"  
    }  
  ]  
}
```



```
}
```

Response Elements

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

Marker (p. 78)

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 (p. 78)

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 \(p. 163\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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-1:999999999999:tape/AM08A1AD",
    "arn:aws:storagegateway:us-east-1:999999999999:tape/AMZN01A2A4" ]
}
```

Sample Response

```
{
  "TapeArchives":
  [
    {
      "CompletionTime": 1380308527.236,
      "TapeARN": "arn:aws:storagegateway:us-east-1:999999999999:tape/AM08A1AD",
      "TapeBarcode": "AM08A1AD",
      "TapeSizeInBytes": 107374182400,
      "TapeStatus": "ARCHIVED" },
    {
      "CompletionTime": 1382918022.647,
      "TapeARN": "arn:aws:storagegateway:us-east-1:999999999999: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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

GatewayARN (p. 81)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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 (p. 81)

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

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Marker (p. 81)

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

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

GatewayARN (p. 81)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 (p. 81)

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 (p. 81)

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

Type: array of [TapeRecoveryPointInfo \(p. 165\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 83)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 (p. 83)

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: Integer

Valid Range: Minimum value of 1.

Required: No

Marker (p. 83)

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 (p. 83)

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

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

Required: No

Response Syntax

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

Response Elements

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

Marker (p. 84)

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 (p. 84)

An array of virtual tape descriptions.

Type: array of [Tape \(p. 162\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

Get descriptions of specific tapes

In the following request you obtain descriptions of tapes in the gateway-VTL with id sgw-12A3456B. 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/  
sgw-12A3456B",  
  "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

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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 86)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

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

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

DiskIds (p. 86)

Type: array of Strings

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

GatewayARN (p. 86)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 (p. 86)

Type: Long

UploadBufferUsedInBytes (p. 86)

Type: Long

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/sgw-12A3456B"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: gur28r2rqlgb8vvs0mq17hlgijlq8gllle1qe3kpgg6f0kstauu0
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/  
sgw-12A3456B",  
  "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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 89)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 (p. 89)

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

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Marker (p. 89)

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 (p. 89)

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

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

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

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

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

GatewayARN (p. 89)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 (p. 89)

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 (p. 89)

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

Type: array of [VTLDevice \(p. 169\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

Get descriptions of the VTL devices on a gateway

The following example gets descriptions of all the VTL devices on a gateway with id sgw-12A3456B. 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/sgw-12A3456B" }
```

Sample Response

```
{ "GatewayARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/sgw-12A3456B",
  "VTLDevices":
  [
    { "DeviceiSCSIAttributes":
      { "ChapEnabled": false,
        "NetworkInterfaceId": "*",
        "NetworkInterfacePort": 3260,
        "TargetARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/sgw-12A3456B/target/iqn.1997-05.com.amazon:sgw-1fad4876-mediachanger" },
      "VTLDeviceARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/sgw-12A3456B/device/AMZN_SGW-1FAD4876_MEDIACHANGER_00001",
      "VTLDeviceProductIdentifier": "L700",
      "VTLDeviceType": "Medium Changer",
      "VTLDeviceVendor": "STK" },
    { "DeviceiSCSIAttributes":
      { "ChapEnabled": false,
        "NetworkInterfaceId": "*",
        "NetworkInterfacePort": 3260,
        "TargetARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/sgw-12A3456B/target/iqn.1997-05.com.amazon:sgw-1fad4876-tapedrive-01" },
      "VTLDeviceARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/sgw-12A3456B/device/AMZN_SGW-1FAD4876_TAPEDRIVE_00001",
      "VTLDeviceProductIdentifier": "ULT3580-TD5",
      "VTLDeviceType": "Tape Drive",
      "VTLDeviceVendor": "IBM" },
    { "DeviceiSCSIAttributes":
      { "ChapEnabled": false,
        "NetworkInterfaceId": "*",
        "NetworkInterfacePort": 3260,
```

AWS Storage Gateway Service API Reference
Example

```
    "TargetARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/  
sgw-12A3456B/target/iqn.1997-05.com.amazon:sgw-1fad4876-tapedrive-02"},  
    "VTLDeviceARN": "arn:aws:storagegateway:us-east-1:999999999999:gateway/  
sgw-12A3456B/device/AMZN_SGW-1FAD4876_TAPEDRIVE_00002",  
    "VTLDeviceProductIdentifier": "ULT3580-TD5",  
    "VTLDeviceType": "Tape Drive",  
    "VTLDeviceVendor": "IBM"}  
  ]  
}
```

DescribeWorkingStorage

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

GatewayARN (p. 93)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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

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

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

DiskIds (p. 93)

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

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

GatewayARN (p. 93)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 (p. 93)

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 (p. 93)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B"
}
```

Sample Response

```
HTTP/1.1 200 OK
```


AWS Storage Gateway Service API Reference
Example

```
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/
sgw-12A3456B",
  "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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

GatewayARN (p. 96)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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

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

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

GatewayARN (p. 96)

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. 172).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

ListGateways

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

Limit (p. 98)

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

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Marker (p. 98)

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",
      "GatewayId": "string",
      "GatewayName": "string",
      "GatewayOperationalState": "string",
      "GatewayType": "string"
    }
  ],
  "Marker": "string"
}
```

Response Elements

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

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

Gateways (p. 98)

Type: array of [GatewayInfo \(p. 156\)](#) objects

Marker (p. 98)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/sgw-12A3456B",
```

```
    "GatewayARN": "arn:aws:storagegateway:us-  
east-1:111122223333:gateway/sgw-23A4567C"  
  }  
]  
}
```

ListLocalDisks

Returns a list of the gateway's local disks. 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 a list of all disks, specifying which are configured as working storage, cache storage, or stored volume or not configured at all. The response includes a `DiskStatus` field. This field can have a value of `present` (the disk is available to use), `missing` (the disk is no longer connected to the gateway), or `mismatch` (the disk node is occupied by a disk that has incorrect metadata or the disk content is corrupted).

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

GatewayARN (p. 101)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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,  
      "DiskStatus": "string"  
    }  
  ],  
  "GatewayARN": "string"  
}
```

Response Elements

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

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

Disks (p. 101)

Type: array of [Disk](#) (p. 155) objects

GatewayARN (p. 101)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.ListLocalDisks
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/sgw-12A3456B"
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR000KIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Wed, 25 Apr 2012 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 398
{
  "Disks": [
    {
      "DiskAllocationType": "CACHE_STORAGE",
      "DiskId": "pci-0000:03:00.0-scsi-0:0:0:0",
      "DiskNode": "SCSI(0:0)",
    }
  ]
}
```



```
    "DiskPath": "/dev/sda",
    "DiskSizeInBytes": 1099511627776
    "DiskStatus": "missing"
  },
  {
    "DiskAllocationType": "UPLOAD_BUFFER",
    "DiskAllocationResource": "",
    "DiskId": "pci-0000:03:00.0-scsi-0:0:1:0",
    "DiskNode": "SCSI(0:1)",
    "DiskPath": "/dev/sdb",
    "DiskSizeInBytes": 1099511627776
    "DiskStatus": "present"
  }
],
"GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/
sgw-12A3456B"
}
```

ListTagsForResource

Lists the tags that have been added to the specified resource.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

Limit (p. 104)

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

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Marker (p. 104)

An opaque string that indicates the position at which to begin returning the list of tags.

Type: String

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

Required: No

ResourceARN (p. 104)

The Amazon Resource Name (ARN) of the resource for which you want to list tags.

Type: String

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

Required: Yes

Response Syntax

```
{  
  "Marker": "string",  
  "ResourceARN": "string",  
  "Tags": [  
    {  
      "Key": "string",  
      "Value": "string"  
    }  
  ]  
}
```

Response Elements

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

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

Marker (p. 104)

An opaque string that indicates the position at which to stop returning the list of tags.

Type: String

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

ResourceARN (p. 104)

The Amazon Resource Name (ARN) of the resource for which you want to list tags.

Type: String

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

Tags (p. 104)

An array that contains the tags for the specified resource.

Type: array of [Tag \(p. 161\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

ListTapes

Lists virtual tapes in your virtual tape library (VTL) and your virtual tape shelf (VTS). You specify the tapes to list by specifying one or more tape Amazon Resource Names (ARNs). If you don't specify a tape ARN, the operation lists all virtual tapes in both your VTL and VTS.

This operation supports pagination. By default, the operation returns a maximum of up to 100 tapes. You can optionally specify the `Limit` parameter in the body to limit the number of tapes in the response. If the number of tapes returned in the response is truncated, the response includes a `Marker` element that you can use in your subsequent request to retrieve the next set of tapes.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

Limit (p. 106)

An optional number limit for the tapes in the list returned by this call.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Marker (p. 106)

A string that indicates the position at which to begin the returned list of tapes.

Type: String

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

Required: No

TapeARNs (p. 106)

The Amazon Resource Name (ARN) of each of the tapes you want to list. If you don't specify a tape ARN, the response lists all tapes in both your VTL and VTS.

Type: array of Strings

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

Required: No

Response Syntax

```
{
  "Marker": "string",
  "TapeInfos": [
    {
      "GatewayARN": "string",
      "TapeARN": "string",
      "TapeBarcode": "string",
      "TapeSizeInBytes": number,

```

```
    "TapeStatus": "string"  
  }  
]  
}
```

Response Elements

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

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

Marker (p. 106)

A string that indicates the position at which to begin returning the next list of tapes. Use the marker in your next request to continue pagination of tapes. If there are no more tapes to list, this element does not appear in the response body.

Type: String

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

TapelInfos (p. 106)

An array of [TapelInfo \(p. 164\)](#) objects, where each object describes an a single tape. If there not tapes in the tape library or VTS, then the `TapelInfos` is an empty array.

Type: array of [TapelInfo \(p. 164\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

Example Request

The `ListTapes` request in the following example does not specify a `limit`, `marker`, or `TapeArn` field in the response body. This example lists the only two tapes in the VTL and VTS. The response returns up to the first 100 tapes.

Sample Request

```
POST / HTTP/1.1  
Host: storagegateway.us-east-1.amazonaws.com  
x-amz-Date: 20160425T120000Z  
Authorization: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG  
Content-type: application/x-amz-json-1.1  
x-amz-target: StorageGateway_20120630.ListTapes  
{  
  "TapeARN": "arn:aws:storagegateway:us-east-1:999999999999:tape/TEST38A29D"  
}
```

Sample Response

```
HTTP/1.1 200 OK
x-amzn-RequestId: CSOC7TJPLR0OOKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Date: Mon, 29 Apr 2016 12:00:02 GMT
Content-type: application/x-amz-json-1.1
Content-length: 346
{
  "Marker": "string",
  "TapeInfos": [
    {
      "GatewayARN": "arn:aws:storagegateway:us-
east-1:111122223333:gateway/sgw-12A3456B",
      "TapeARN": "arn:aws:storagegateway:us-east-1:999999999999:tape/
TEST38A29D",
      "TapeBarcode": "TEST38A29D",
      "TapeSizeInBytes": 107374182400,
      "TapeStatus": "AVAILABLE"
    },
    {
      "GatewayARN": "arn:aws:storagegateway:us-
east-1:111122223333:gateway/sgw-23A4567C",
      "TapeARN": "arn:aws:storagegateway:us-east-1:999999999999:tape/
TEST49B39F",
      "TapeBarcode": "TEST49B39F",
      "TapeSizeInBytes": 107374182400,
      "TapeStatus": "ARCHIVED"
    }
  ]
}
```

ListVolumeInitiators

Lists iSCSI initiators that are connected to a volume. You can use this operation to determine whether a volume is being used or not.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

VolumeARN (p. 109)

The Amazon Resource Name (ARN) of the volume. Use the [ListVolumes](#) (p. 114) operation to return a list of gateway volumes for the gateway.

Type: String

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

Required: Yes

Response Syntax

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

Response Elements

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

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

Initiators (p. 109)

The host names and port numbers of all iSCSI initiators that are connected to the gateway.

Type: array of Strings

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

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 172).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

ListVolumeRecoveryPoints

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 \(p. 27\)](#) operation.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 111)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

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

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

GatewayARN (p. 111)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 111\)](#)

Type: array of [VolumeRecoveryPointInfo \(p. 168\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/sgw-12A3456B"
}
```

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

{
```

```
"GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/  
sgw-12A3456B",  
"VolumeRecoveryPointInfos": [  
  {  
    "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/  
sgw-12A3456B/volume/vol-1122AABB",  
    "VolumeRecoveryPointTime": "2012-09-04T21:08:44.627Z",  
    "VolumeSizeInBytes": 536870912000  
  }  
]  
}
```

ListVolumes

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 [DescribeStorediSCSIVolumes](#) (p. 75) or the [DescribeCachediSCSIVolumes](#) (p. 60) 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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

GatewayARN (p. 114)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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

Limit (p. 114)

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

Type: Integer

Valid Range: Minimum value of 1.

Required: No

Marker (p. 114)

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": [
    {
      "GatewayARN": "string",
      "GatewayId": "string",

```

```
    "VolumeARN": "string",  
    "VolumeId": "string",  
    "VolumeSizeInBytes": number,  
    "VolumeType": "string"  
  }  
]  
}
```

Response Elements

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

GatewayARN (p. 114)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 (p. 114)

Type: String

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

VolumInfos (p. 114)

Type: array of [VolumeInfo \(p. 166\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

Example Request

The ListVolumes request in this example does not specify a `limit` or `marker` field in the response body. If the number of volumes in the gateway is greater than 100, the response returns first 100.

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/
sgw-12A3456B"
}
```

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/
sgw-12A3456B",
  "VolumeInfos": [
    {
      "GatewayARN": "arn:aws:storagegateway:us-
east-1:111122223333:gateway/sgw-12A3456B",
      "GatewayId": "sgw-12A3456B",
      "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/
sgw-12A3456B/volume/vol-1122AABB",
      "VolumeId": "vol-1122AABB",
      "VolumeSizeInBytes": "107374182400",
      "VolumeType": "STORED"
    },
    {
      "GatewayARN": "arn:aws:storagegateway:us-
east-1:111122223333:gateway/sgw-13B4567C",
      "GatewayId": "sgw-gw-13B4567C",
      "VolumeARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/
sgw-13B4567C/volume/vol-3344CCDD",
      "VolumeId": "vol-1122AABB",
      "VolumeSizeInBytes": "107374182400",
      "VolumeType": "STORED"
    }
  ]
}
```

RemoveTagsFromResource

Removes one or more tags from the specified resource.

Request Syntax

```
{  
  "ResourceARN": "string",  
  "TagKeys": [ "string" ]  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

ResourceARN (p. 117)

The Amazon Resource Name (ARN) of the resource you want to remove the tags from.

Type: String

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

Required: Yes

TagKeys (p. 117)

The keys of the tags you want to remove from the specified resource. A tag is composed of a key/value pair.

Type: array of Strings

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^[\p{L} \p{Z} \p{N} _ . : / = + \ - % @] * $`

Required: Yes

Response Syntax

```
{  
  "ResourceARN": "string"  
}
```

Response Elements

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

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

ResourceARN (p. 117)

The Amazon Resource Name (ARN) of the resource that the tags were removed from.

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

ResetCache

Resets all cache disks that have encountered a error and makes the disks available for reconfiguration as cache storage. If your cache disk encounters a error, the gateway prevents read and write operations on virtual tapes in the gateway. For example, an error can occur when a disk is corrupted or removed from the gateway. When a cache is reset, the gateway loses its cache storage. At this point you can reconfigure the disks as cache disks.

Important

If the cache disk you are resetting contains data that has not been uploaded to Amazon S3 yet, that data can be lost. After you reset cache disks, there will be no configured cache disks left in the gateway, so you must configure at least one new cache disk for your gateway to function properly.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 119)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

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

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

GatewayARN (p. 119)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

GatewayARN (p. 121)

The Amazon Resource Name (ARN) of the gateway you want to retrieve the virtual tape to. Use the [ListGateways](#) (p. 98) 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 (p. 121)

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

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

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

TapeARN (p. 121)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

Retrieve a Tape

The following example request retrieves an archived tape from VTS to a gateway with id `sgw-12A3456B`. 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/
sgw-12A3456B"
}
```

Sample Response

```
{"TapeARN": "arn:aws:storagegateway:us-east-1:123456789012: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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 123)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 (p. 123)

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

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

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

TapeARN (p. 123)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

SetLocalConsolePassword

Sets the password for your VM local console. When you log in to the local console for the first time, you log in to the VM with the default credentials. We recommend that you set a new password. You don't need to know the default password to set a new password.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 125)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

LocalConsolePassword (p. 125)

The password you want to set for your VM local console.

Type: String

Length Constraints: Minimum length of 6. Maximum length of 512.

Pattern: `^[-~]+$`

Required: Yes

Response Syntax

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

Response Elements

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

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

GatewayARN (p. 125)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

ShutdownGateway

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 \(p. 130\)](#), [DescribeGatewayInformation \(p. 66\)](#), and [ListGateways \(p. 98\)](#). 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 \(p. 66\)](#) 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 \(p. 44\)](#)) to no longer pay software charges associated with the gateway.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 127)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

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

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

GatewayARN (p. 127)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B"
}
```

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/
sgw-12A3456B"
}
```


StartGateway

Starts a gateway that you previously shut down (see [ShutdownGateway \(p. 127\)](#)). 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 \(p. 66\)](#) 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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

GatewayARN (p. 130)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

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

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

GatewayARN (p. 130)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B"
}
```

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/
sgw-12A3456B"
}
```

UpdateBandwidthRateLimit

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 parameters that are common to all actions, see [Common Parameters \(p. 170\)](#).

The request accepts the following data in JSON format.

AverageDownloadRateLimitInBitsPerSec (p. 132)

The average download bandwidth rate limit in bits per second.

Type: Long

Valid Range: Minimum value of 102400.

Required: No

AverageUploadRateLimitInBitsPerSec (p. 132)

The average upload bandwidth rate limit in bits per second.

Type: Long

Valid Range: Minimum value of 51200.

Required: No

GatewayARN (p. 132)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

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

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

GatewayARN (p. 132)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B",
  "AverageUploadRateLimitInBitsPerSec": 51200,
  "AverageDownloadRateLimitInBitsPerSec": 102400
}
```

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/  
sgw-12A3456B"  
}
```


UpdateChapCredentials

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

InitiatorName (p. 135)

The iSCSI initiator that connects to the target.

Type: String

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

Pattern: [0-9a-z:.-]+

Required: Yes

SecretToAuthenticateInitiator (p. 135)

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

Note

The secret key must be between 12 and 16 bytes when encoded in UTF-8.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: Yes

SecretToAuthenticateTarget (p. 135)

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

Byte constraints: Minimum bytes of 12. Maximum bytes of 16.

Note

The secret key must be between 12 and 16 bytes when encoded in UTF-8.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

TargetARN (p. 135)

The Amazon Resource Name (ARN) of the iSCSI volume target. Use the [DescribeStorediSCSIVolumes](#) (p. 75) operation to return 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

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

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

InitiatorName (p. 136)

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.

Pattern: [0-9a-z:.-]+

TargetARN (p. 136)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B/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/
sgw-12A3456B/target/iqn.1997-05.com.amazon:myvolume",
  "InitiatorName":
  "iqn.1991-05.com.microsoft:computername.domain.example.com"
}
```

UpdateGatewayInformation

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.

Note

For Gateways activated after September 2, 2015, the gateway's ARN contains the gateway ID rather than the gateway name. However, changing the name of the gateway has no effect on the gateway's ARN.

Request Syntax

```
{  
  "GatewayARN": "string",  
  "GatewayName": "string",  
  "GatewayTimezone": "string"  
}
```

Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

GatewayARN (p. 138)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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 (p. 138)

The name you configured for your gateway.

Type: String

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

Pattern: `^[-\.0-[\]\-\~]*[!-\.\.0-[\]\-\~][-\.0-[\]\-\~]*$`

Required: No

GatewayTimezone (p. 138)

Type: String

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

Required: No

Response Syntax

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

Response Elements

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

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

GatewayARN (p. 138)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) operation to return a list of gateways for your account and region.

Type: String

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

GatewayName (p. 138)

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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: CSOC7TJPLR00OKIRLGOHVAICUFVV4KQNSO5AEMVJF66Q9ASUAAJG
Content-type: application/x-amz-json-1.1
x-amz-target: StorageGateway_20120630.GatewayInformation
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/
sgw-12A3456B",
  "GatewayName": "mygateway2"
}
```

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: 81
```

```
{  
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/  
sgw-12A3456B"  
}
```

UpdateGatewaySoftwareNow

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. 66) 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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

GatewayARN (p. 141)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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

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

GatewayARN (p. 141)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/
sgw-12A3456B"
}
```

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/
sgw-12A3456B"
}
```


UpdateMaintenanceStartTime

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

DayOfWeek (p. 143)

The maintenance start time day of the week represented as an ordinal number from 0 to 6, where 0 represents Sunday and 6 Saturday.

Type: Integer

Valid Range: Minimum value of 0. Maximum value of 6.

Required: Yes

GatewayARN (p. 143)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways](#) (p. 98) 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 (p. 143)

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: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

Required: Yes

MinuteOfHour (p. 143)

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: Integer

Valid Range: Minimum value of 0. Maximum value of 59.

Required: Yes

Response Syntax

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

Response Elements

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

GatewayARN (p. 143)

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

Example Request

The following example shows a request that updates the maintenance start time of gateway with id sgw-12A3456B.

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.UpdateMaintenanceStartTime
{
  "GatewayARN": "arn:aws:storagegateway:us-east-1:111122223333:gateway/
sgw-12A3456B",
  "HourOfDay": 0,
  "MinuteOfHour": 30,
  "DayOfWeek": 2
}
```

Sample Response

```
HTTP/1.1 200 OK
```

AWS Storage Gateway Service API Reference
Example

```
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/
sgw-12A3456B"
}
```

UpdateSnapshotSchedule

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

Description (p. 146)

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 (p. 146)

Frequency of snapshots. Specify the number of hours between snapshots.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 24.

Required: Yes

StartAt (p. 146)

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: Integer

Valid Range: Minimum value of 0. Maximum value of 23.

Required: Yes

VolumeARN (p. 146)

The Amazon Resource Name (ARN) of the volume. Use the [ListVolumes](#) (p. 114) 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

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

VolumeARN (p. 146)

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 \(p. 172\)](#).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Example

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/  
sgw-12A3456B/volume/vol-1122AABB",  
  "StartAt": 0,  
  "RecurrenceInHours": 1,  
  "Description": "hourly snapshot"  
}
```

Sample Response

```
HTTP/1.1 200 OK
```

AWS Storage Gateway Service API Reference
Example

```
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/
sgw-12A3456B/volume/vol-1122AABB"
}
```

UpdateVTLDeviceType

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 parameters that are common to all actions, see [Common Parameters](#) (p. 170).

The request accepts the following data in JSON format.

DeviceType (p. 149)

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 (p. 149)

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

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

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

VTLDeviceARN (p. 149)

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. 172).

InternalServerError

An internal server error has occurred during the request. For more information, see the error and message fields.

HTTP Status Code: 400

InvalidGatewayRequestException

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

HTTP Status Code: 400

Data Types

The AWS Storage Gateway API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [CachediSCSIVolume](#) (p. 152)
- [ChapInfo](#) (p. 153)
- [DeviceiSCSIAttributes](#) (p. 154)
- [Disk](#) (p. 155)
- [GatewayInfo](#) (p. 156)
- [NetworkInterface](#) (p. 157)
- [StorageGatewayError](#) (p. 158)
- [StorédiSCSIVolume](#) (p. 159)
- [Tag](#) (p. 161)
- [Tape](#) (p. 162)
- [TapeArchive](#) (p. 163)
- [TapeInfo](#) (p. 164)
- [TapeRecoveryPointInfo](#) (p. 165)
- [VolumeInfo](#) (p. 166)
- [VolumeiSCSIAttributes](#) (p. 167)
- [VolumeRecoveryPointInfo](#) (p. 168)
- [VTLDevice](#) (p. 169)

CachediSCSIVolume

Describes an iSCSI cached volume.

Contents

SourceSnapshotId

If the cached volume was created from a snapshot, this field contains the snapshot ID used, e.g. snap-78e22663. Otherwise, this field is not included.

Type: String

Pattern: `\Asnap-([0-9A-Fa-f]{8}|[0-9A-Fa-f]{17})\z`

Required: No

VolumeARN

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

Type: String

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

Required: No

VolumeId

The unique identifier of the volume, e.g. vol-AE4B946D.

Type: String

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

Required: No

VolumeiSCSIAttributes

An [VolumeiSCSIAttributes \(p. 167\)](#) object that represents a collection of iSCSI attributes for one stored volume.

Type: [VolumeiSCSIAttributes \(p. 167\)](#) object

Required: No

VolumeProgress

Represents the percentage complete if the volume is restoring or bootstrapping that represents the percent of data transferred. This field does not appear in the response if the cached volume is not restoring or bootstrapping.

Type: Double

Required: No

VolumeSizeInBytes

The size of the volume in bytes.

Type: Long

Required: No

VolumeStatus

One of the VolumeStatus values that indicates the state of the storage volume.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 50.

Required: No

VolumeType

One of the VolumeType enumeration values that describes the type of the volume.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

ChapInfo

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.

Pattern: [0-9a-z : . -]+

Required: No

SecretToAuthenticateInitiator

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

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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 1. Maximum length of 100.

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

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

Pattern: `\A(25[0-5]|2[0-4]\d|[0-1]?\d?\d)(\.(25[0-5]|2[0-4]\d|[0-1]?\d?\d))\{3}\z`

Required: No

NetworkInterfacePort

The port used to communicate with iSCSI VTL device targets.

Type: Integer

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

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

DiskStatus

Type: String
Required: No

GatewayInfo

Describes a gateway object.

Contents

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

GatewayId

The unique identifier assigned to your gateway during activation. This ID becomes part of the gateway Amazon Resource Name (ARN), which you use as input for other operations.

Type: String

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

Required: No

GatewayName

The name of the gateway.

Type: String

Required: No

GatewayOperationalState

The state of the gateway.

Valid Values: DISABLED or ACTIVE

Type: String

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

Required: No

GatewayType

The type of the gateway.

Type: String

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

Required: No

NetworkInterface

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

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

Describes an iSCSI stored volume.

Contents

PreservedExistingData

Indicates if when the stored volume was created, existing data on the underlying local disk was preserved.

Valid Values: true, false

Type: Boolean

Required: No

SourceSnapshotId

If the stored volume was created from a snapshot, this field contains the snapshot ID used, e.g. snap-78e22663. Otherwise, this field is not included.

Type: String

Pattern: `\Asnap-([0-9A-Fa-f]{8}|[0-9A-Fa-f]{17})\z`

Required: No

VolumeARN

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

Type: String

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

Required: No

VolumeDiskId

The ID of the local disk that was specified in the [CreateStorediSCSIVolume \(p. 30\)](#) operation.

Type: String

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

Required: No

VolumeId

The unique identifier of the volume, e.g. vol-AE4B946D.

Type: String

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

Required: No

VolumeiSCSIAttributes

An [VolumeiSCSIAttributes \(p. 167\)](#) object that represents a collection of iSCSI attributes for one stored volume.

Type: [VolumeiSCSIAttributes \(p. 167\)](#) object

Required: No

VolumeProgress

Represents the percentage complete if the volume is restoring or bootstrapping that represents the percent of data transferred. This field does not appear in the response if the stored volume is not restoring or bootstrapping.

Type: Double

Required: No

VolumeSizeInBytes

The size of the volume in bytes.

Type: Long

Required: No

VolumeStatus

One of the VolumeStatus values that indicates the state of the storage volume.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 50.

Required: No

VolumeType

One of the VolumeType enumeration values describing the type of the volume.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

Tag

Contents

Key

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `^([\p{L}\p{Z}\p{N}_.: /+=\-%@]*)$`

Required: Yes

Value

Type: String

Length Constraints: Maximum length of 256.

Required: Yes

Tape

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 7. Maximum length of 16.

Pattern: `^[A-Z0-9]*$`

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

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: Timestamp

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 7. Maximum length of 16.

Pattern: `^[A-Z0-9]*$`

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

TapeInfo

Describes a virtual tape.

Contents

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

TapeARN

The Amazon Resource Name (ARN) of a 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 7. Maximum length of 16.

Pattern: `^[A-Z0-9]*$`

Required: No

TapeSizeInBytes

The size, in bytes, of a virtual tape.

Type: Long

Required: No

TapeStatus

The status of the tape.

Type: String

Required: No

TapeRecoveryPointInfo

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'THH:MM:SS'Z' format.

Type: Timestamp

Required: No

TapeSizeInBytes

The size, in bytes, of the virtual tapes to recover.

Type: Long

Required: No

TapeStatus

Type: String

Required: No

VolumeInfo

Describes a storage volume object.

Contents

GatewayARN

The Amazon Resource Name (ARN) of the gateway. Use the [ListGateways \(p. 98\)](#) 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

GatewayId

The unique identifier assigned to your gateway during activation. This ID becomes part of the gateway Amazon Resource Name (ARN), which you use as input for other operations.

Valid Values: 50 to 500 lowercase letters, numbers, periods (.), and hyphens (-).

Type: String

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

Required: No

VolumeARN

The Amazon Resource Name (ARN) for the storage volume. For example, the following is a valid ARN:

```
arn:aws:storagegateway:us-east-1:111122223333:gateway/sgw-12A3456B/volume/vol-1122AABB
```

Valid Values: 50 to 500 lowercase letters, numbers, periods (.), and hyphens (-).

Type: String

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

Required: No

VolumeId

The unique identifier assigned to the volume. This ID becomes part of the volume Amazon Resource Name (ARN), which you use as input for other operations.

Valid Values: 50 to 500 lowercase letters, numbers, periods (.), and hyphens (-).

Type: String

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

Required: No

VolumeSizeInBytes

The size of the volume in bytes.

Valid Values: 50 to 500 lowercase letters, numbers, periods (.), and hyphens (-).

Type: Long

Required: No

VolumeType

Type: String

Length Constraints: Minimum length of 3. Maximum length of 100.

Required: No

VolumeiSCSIAttributes

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: Integer

Valid Range: Minimum value of 1.

Required: No

NetworkInterfaceId

The network interface identifier.

Type: String

Pattern: `\A(25[0-5]|2[0-4]\d|[0-1]?\d?\d)(\.(25[0-5]|2[0-4]\d|[0-1]?\d?\d)){3}\z`

Required: No

NetworkInterfacePort

The port used to communicate with iSCSI targets.

Type: Integer

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

VolumeRecoveryPointInfo

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

VTLDevice

Represents a device object associated with a gateway-VTL.

Contents

DeviceiSCSIAttributes

A list of iSCSI information about a VTL device.

Type: [DeviceiSCSIAttributes \(p. 154\)](#) 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

Common Parameters

The following table lists the parameters that all actions use for signing Signature Version 4 requests. Any action-specific parameters are listed in the topic for that action. To view sample requests, see [Examples of Signed Signature Version 4 Requests](#) or [Signature Version 4 Test Suite](#) in the *Amazon Web Services General Reference*.

Action

The action to be performed.

Type: string

Required: Yes

Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: `access_key/YYYYMMDD/region/service/aws4_request`.

For more information, see [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

The temporary security token that was obtained through a call to AWS Security Token Service. 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*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string

Required: Conditional

X-Amz-Signature

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

Common Errors

This section lists the 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