



Backup gateway

# AWS Backup



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# AWS Backup: Backup gateway

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# Table of Contents

<b>Welcome</b> .....	<b>1</b>
<b>Actions</b> .....	<b>2</b>
AssociateGatewayToServer .....	3
Request Syntax .....	3
Request Parameters .....	3
Response Syntax .....	4
Response Elements .....	4
Errors .....	4
See Also .....	5
CreateGateway .....	7
Request Syntax .....	7
Request Parameters .....	7
Response Syntax .....	8
Response Elements .....	8
Errors .....	9
See Also .....	9
DeleteGateway .....	11
Request Syntax .....	11
Request Parameters .....	11
Response Syntax .....	11
Response Elements .....	11
Errors .....	12
See Also .....	13
DeleteHypervisor .....	14
Request Syntax .....	14
Request Parameters .....	14
Response Syntax .....	14
Response Elements .....	14
Errors .....	15
See Also .....	16
DisassociateGatewayFromServer .....	18
Request Syntax .....	18
Request Parameters .....	18
Response Syntax .....	18

Response Elements .....	18
Errors .....	19
See Also .....	20
GetBandwidthRateLimitSchedule .....	21
Request Syntax .....	21
Request Parameters .....	21
Response Syntax .....	21
Response Elements .....	22
Errors .....	22
See Also .....	23
GetGateway .....	25
Request Syntax .....	25
Request Parameters .....	25
Response Syntax .....	25
Response Elements .....	26
Errors .....	26
See Also .....	27
GetHypervisor .....	28
Request Syntax .....	28
Request Parameters .....	28
Response Syntax .....	28
Response Elements .....	29
Errors .....	29
See Also .....	30
GetHypervisorPropertyMappings .....	31
Request Syntax .....	31
Request Parameters .....	31
Response Syntax .....	31
Response Elements .....	32
Errors .....	32
See Also .....	33
GetVirtualMachine .....	35
Request Syntax .....	35
Request Parameters .....	35
Response Syntax .....	35
Response Elements .....	36

Errors .....	36
See Also .....	37
ImportHypervisorConfiguration .....	38
Request Syntax .....	38
Request Parameters .....	38
Response Syntax .....	40
Response Elements .....	40
Errors .....	40
See Also .....	41
ListGateways .....	43
Request Syntax .....	43
Request Parameters .....	43
Response Syntax .....	44
Response Elements .....	44
Errors .....	44
See Also .....	45
ListHypervisors .....	47
Request Syntax .....	47
Request Parameters .....	47
Response Syntax .....	48
Response Elements .....	48
Errors .....	48
See Also .....	49
ListTagsForResource .....	51
Request Syntax .....	51
Request Parameters .....	51
Response Syntax .....	51
Response Elements .....	52
Errors .....	52
See Also .....	53
ListVirtualMachines .....	54
Request Syntax .....	54
Request Parameters .....	54
Response Syntax .....	55
Response Elements .....	55
Errors .....	56

See Also .....	57
PutBandwidthRateLimitSchedule .....	58
Request Syntax .....	58
Request Parameters .....	58
Response Syntax .....	59
Response Elements .....	59
Errors .....	59
See Also .....	60
PutHypervisorPropertyMappings .....	62
Request Syntax .....	62
Request Parameters .....	62
Response Syntax .....	63
Response Elements .....	63
Errors .....	63
See Also .....	65
PutMaintenanceStartTime .....	66
Request Syntax .....	66
Request Parameters .....	66
Response Syntax .....	67
Response Elements .....	67
Errors .....	68
See Also .....	69
StartVirtualMachinesMetadataSync .....	70
Request Syntax .....	70
Request Parameters .....	70
Response Syntax .....	70
Response Elements .....	70
Errors .....	71
See Also .....	72
TagResource .....	73
Request Syntax .....	73
Request Parameters .....	73
Response Syntax .....	74
Response Elements .....	74
Errors .....	74
See Also .....	75

TestHypervisorConfiguration .....	76
Request Syntax .....	76
Request Parameters .....	76
Response Elements .....	77
Errors .....	77
See Also .....	78
UntagResource .....	80
Request Syntax .....	80
Request Parameters .....	80
Response Syntax .....	81
Response Elements .....	81
Errors .....	81
See Also .....	82
UpdateGatewayInformation .....	83
Request Syntax .....	83
Request Parameters .....	83
Response Syntax .....	84
Response Elements .....	84
Errors .....	84
See Also .....	85
UpdateGatewaySoftwareNow .....	87
Request Syntax .....	87
Request Parameters .....	87
Response Syntax .....	87
Response Elements .....	88
Errors .....	88
See Also .....	89
UpdateHypervisor .....	90
Request Syntax .....	90
Request Parameters .....	90
Response Syntax .....	92
Response Elements .....	92
Errors .....	92
See Also .....	94
<b>Data Types .....</b>	<b>95</b>
BandwidthRateLimitInterval .....	96

Contents .....	96
See Also .....	97
Gateway .....	99
Contents .....	99
See Also .....	100
GatewayDetails .....	101
Contents .....	101
See Also .....	103
Hypervisor .....	104
Contents .....	104
See Also .....	105
HypervisorDetails .....	106
Contents .....	106
See Also .....	108
MaintenanceStartTime .....	109
Contents .....	109
See Also .....	110
Tag .....	111
Contents .....	111
See Also .....	111
VirtualMachine .....	112
Contents .....	112
See Also .....	113
VirtualMachineDetails .....	114
Contents .....	114
See Also .....	115
VmwareTag .....	117
Contents .....	117
See Also .....	117
VmwareToAwsTagMapping .....	119
Contents .....	119
See Also .....	120
<b>Common Parameters .....</b>	<b>121</b>
<b>Common Error Types .....</b>	<b>124</b>

# Welcome

AWS Backup gateway connects AWS Backup to your hypervisor, so you can create, store, and restore backups of your virtual machines (VMs) anywhere, whether on-premises or in the VMware Cloud (VMC) on AWS.

Add on-premises resources by connecting to a hypervisor through a gateway. AWS Backup will automatically discover the resources in your hypervisor.

Use AWS Backup to assign virtual or on-premises resources to a backup plan, or run on-demand backups. Once you have backed up your resources, you can view them and restore them like any resource supported by AWS Backup.

To download the AWS software to get started, navigate to the AWS Backup console, choose **Gateways**, then choose **Create gateway**.

This document was last published on April 10, 2026.

# Actions

The following actions are supported:

- [AssociateGatewayToServer](#)
- [CreateGateway](#)
- [DeleteGateway](#)
- [DeleteHypervisor](#)
- [DisassociateGatewayFromServer](#)
- [GetBandwidthRateLimitSchedule](#)
- [GetGateway](#)
- [GetHypervisor](#)
- [GetHypervisorPropertyMappings](#)
- [GetVirtualMachine](#)
- [ImportHypervisorConfiguration](#)
- [ListGateways](#)
- [ListHypervisors](#)
- [ListTagsForResource](#)
- [ListVirtualMachines](#)
- [PutBandwidthRateLimitSchedule](#)
- [PutHypervisorPropertyMappings](#)
- [PutMaintenanceStartTime](#)
- [StartVirtualMachinesMetadataSync](#)
- [TagResource](#)
- [TestHypervisorConfiguration](#)
- [UntagResource](#)
- [UpdateGatewayInformation](#)
- [UpdateGatewaySoftwareNow](#)
- [UpdateHypervisor](#)

# AssociateGatewayToServer

Associates a backup gateway with your server. After you complete the association process, you can back up and restore your VMs through the gateway.

## Request Syntax

```
{  
  "GatewayArn": "string",  
  "ServerArn": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### GatewayArn

The Amazon Resource Name (ARN) of the gateway. Use the `ListGateways` operation to return a list of gateways for your account and AWS Region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\|[a-zA-Z-0-9]{3}`

Required: Yes

### ServerArn

The Amazon Resource Name (ARN) of the server that hosts your virtual machines.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\|[a-zA-Z-0-9]{3}`

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

The Amazon Resource Name (ARN) of a gateway.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

## Errors

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

### **ConflictException**

The operation cannot proceed because it is not supported.

#### **ErrorCode**

A description of why the operation is not supported.

HTTP Status Code: 400

### **InternalServerError**

The operation did not succeed because an internal error occurred. Try again later.

**ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

**ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

**ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

**ValidationException**

The operation did not succeed because a validation error occurred.

**ErrorCode**

A description of what caused the validation error.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

# CreateGateway

Creates a backup gateway. After you create a gateway, you can associate it with a server using the `AssociateGatewayToServer` operation.

## Request Syntax

```
{
  "ActivationKey": "string",
  "GatewayDisplayName": "string",
  "GatewayType": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### [ActivationKey](#)

The activation key of the created gateway.

Type: String

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

Pattern: `[0-9a-zA-Z\-\ ]+`

Required: Yes

### [GatewayDisplayName](#)

The display name of the created gateway.

Type: String

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

Pattern: `[a-zA-Z0-9-]*`

Required: Yes

### GatewayType

The type of created gateway.

Type: String

Valid Values: BACKUP\_VM

Required: Yes

### Tags

A list of up to 50 tags to assign to the gateway. Each tag is a key-value pair.

Type: Array of [Tag](#) objects

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

The Amazon Resource Name (ARN) of the gateway you create.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\|[a-zA-Z-0-9]{3}`

## Errors

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

### InternalServerError

The operation did not succeed because an internal error occurred. Try again later.

#### ErrorCode

A description of which internal error occurred.

HTTP Status Code: 500

### ThrottlingException

TPS has been limited to protect against intentional or unintentional high request volumes.

#### ErrorCode

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

### ValidationException

The operation did not succeed because a validation error occurred.

#### ErrorCode

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteGateway

Deletes a backup gateway.

## Request Syntax

```
{  
  "GatewayArn": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### [GatewayArn](#)

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

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\/[a-zA-Z-0-9]{+}`

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

The Amazon Resource Name (ARN) of the gateway you deleted.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

## Errors

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

### **InternalServerError**

The operation did not succeed because an internal error occurred. Try again later.

#### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

A resource that is required for the action wasn't found.

#### **ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

### **ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

#### **ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

## ValidationException

The operation did not succeed because a validation error occurred.

### ErrorCode

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DeleteHypervisor

Deletes a hypervisor.

## Request Syntax

```
{  
  "HypervisorArn": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### [HypervisorArn](#)

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

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

Required: Yes

## Response Syntax

```
{  
  "HypervisorArn": "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.

## HypervisorArn

The Amazon Resource Name (ARN) of the hypervisor you deleted.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\|[a-zA-Z-0-9]{3}`

## Errors

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

### **AccessDeniedException**

The operation cannot proceed because you have insufficient permissions.

#### **ErrorCode**

A description of why you have insufficient permissions.

HTTP Status Code: 400

### **ConflictException**

The operation cannot proceed because it is not supported.

#### **ErrorCode**

A description of why the operation is not supported.

HTTP Status Code: 400

### **InternalServerError**

The operation did not succeed because an internal error occurred. Try again later.

#### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

## ResourceNotFoundException

A resource that is required for the action wasn't found.

### ErrorCode

A description of which resource wasn't found.

HTTP Status Code: 400

## ThrottlingException

TPS has been limited to protect against intentional or unintentional high request volumes.

### ErrorCode

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

## ValidationException

The operation did not succeed because a validation error occurred.

### ErrorCode

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# DisassociateGatewayFromServer

Disassociates a backup gateway from the specified server. After the disassociation process finishes, the gateway can no longer access the virtual machines on the server.

## Request Syntax

```
{  
  "GatewayArn": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### GatewayArn

The Amazon Resource Name (ARN) of the gateway to disassociate.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\|[a-zA-Z-0-9]{3}`

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

The Amazon Resource Name (ARN) of the gateway you disassociated.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\/[a-zA-Z-0-9]+`

## Errors

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

### **ConflictException**

The operation cannot proceed because it is not supported.

#### **ErrorCode**

A description of why the operation is not supported.

HTTP Status Code: 400

### **InternalServerErrorException**

The operation did not succeed because an internal error occurred. Try again later.

#### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

A resource that is required for the action wasn't found.

#### **ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

## ThrottlingException

TPS has been limited to protect against intentional or unintentional high request volumes.

### ErrorCode

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

## ValidationException

The operation did not succeed because a validation error occurred.

### ErrorCode

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetBandwidthRateLimitSchedule

Retrieves the bandwidth rate limit schedule for a specified gateway. By default, gateways do not have bandwidth rate limit schedules, which means no bandwidth rate limiting is in effect. Use this to get a gateway's bandwidth rate limit schedule.

## Request Syntax

```
{
  "GatewayArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### [GatewayArn](#)

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

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9+]){3}\/[a-zA-Z-0-9+]`

Required: Yes

## Response Syntax

```
{
  "BandwidthRateLimitIntervals": [
    {
      "AverageUploadRateLimitInBitsPerSec": number,
      "DaysOfWeek": [ number ],
      "EndHourOfDay": number,

```

```
    "EndMinuteOfHour": number,
    "StartHourOfDay": number,
    "StartMinuteOfHour": 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.

### BandwidthRateLimitIntervals

An array containing bandwidth rate limit schedule intervals for a gateway. When no bandwidth rate limit intervals have been scheduled, the array is empty.

Type: Array of [BandwidthRateLimitInterval](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

### GatewayArn

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

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

## Errors

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

### **InternalServerError**

The operation did not succeed because an internal error occurred. Try again later.

**ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

**ResourceNotFoundException**

A resource that is required for the action wasn't found.

**ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

**ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

**ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

**ValidationException**

The operation did not succeed because a validation error occurred.

**ErrorCode**

A description of what caused the validation error.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetGateway

By providing the ARN (Amazon Resource Name), this API returns the gateway.

## Request Syntax

```
{
  "GatewayArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### GatewayArn

The Amazon Resource Name (ARN) of the gateway.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\\[a-zA-Z-0-9]+`

Required: Yes

## Response Syntax

```
{
  "Gateway": {
    "DeprecationDate": number,
    "GatewayArn": "string",
    "GatewayDisplayName": "string",
    "GatewayType": "string",
    "HypervisorId": "string",
    "LastSeenTime": number,
    "MaintenanceStartTime": {
```

```
    "DayOfMonth": number,
    "DayOfWeek": number,
    "HourOfDay": number,
    "MinuteOfHour": number
  },
  "NextUpdateAvailabilityTime": number,
  "SoftwareVersion": "string",
  "VpcEndpoint": "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.

### Gateway

By providing the ARN (Amazon Resource Name), this API returns the gateway.

Type: [GatewayDetails](#) object

## Errors

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

### InternalServerError

The operation did not succeed because an internal error occurred. Try again later.

#### ErrorCode

A description of which internal error occurred.

HTTP Status Code: 500

### ResourceNotFoundException

A resource that is required for the action wasn't found.

#### ErrorCode

A description of which resource wasn't found.

HTTP Status Code: 400

### **ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

#### **ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

### **ValidationException**

The operation did not succeed because a validation error occurred.

#### **ErrorCode**

A description of what caused the validation error.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetHypervisor

This action requests information about the specified hypervisor to which the gateway will connect. A hypervisor is hardware, software, or firmware that creates and manages virtual machines, and allocates resources to them.

## Request Syntax

```
{
  "HypervisorArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### HypervisorArn

The Amazon Resource Name (ARN) of the hypervisor.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\[/code>`

Required: Yes

## Response Syntax

```
{
  "Hypervisor": {
    "Host": "string",
    "HypervisorArn": "string",
    "KmsKeyArn": "string",
    "LastSuccessfulMetadataSyncTime": number,
  }
}
```

```
"LatestMetadataSyncStatus": "string",
"LatestMetadataSyncStatusMessage": "string",
"LogGroupArn": "string",
"Name": "string",
"State": "string"
}
}
```

## Response Elements

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

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

### Hypervisor

Details about the requested hypervisor.

Type: [HypervisorDetails](#) object

## Errors

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

### **InternalServerError**

The operation did not succeed because an internal error occurred. Try again later.

#### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

A resource that is required for the action wasn't found.

#### **ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

## ThrottlingException

TPS has been limited to protect against intentional or unintentional high request volumes.

### ErrorCode

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

## ValidationException

The operation did not succeed because a validation error occurred.

### ErrorCode

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetHypervisorPropertyMappings

This action retrieves the property mappings for the specified hypervisor. A hypervisor property mapping displays the relationship of entity properties available from the hypervisor to the properties available in AWS.

## Request Syntax

```
{  
  "HypervisorArn": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### [HypervisorArn](#)

The Amazon Resource Name (ARN) of the hypervisor.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

Required: Yes

## Response Syntax

```
{  
  "HypervisorArn": "string",  
  "IamRoleArn": "string",  
  "VmwareToAwsTagMappings": [  
    {  
      "AwsTagKey": "string",  
      "AwsTagValue": "string",  
    }  
  ]  
}
```

```
    "VmwareCategory": "string",
    "VmwareTagName": "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.

### HypervisorArn

The Amazon Resource Name (ARN) of the hypervisor.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

### IamRoleArn

The Amazon Resource Name (ARN) of the IAM role.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:(aws|aws-cn|aws-us-gov):iam:([0-9]+):role/(S+)`

### VmwareToAwsTagMappings

This is a display of the mappings of VMware tags to the AWS tags.

Type: Array of [VmwareToAwsTagMapping](#) objects

## Errors

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

## **InternalServerErrorException**

The operation did not succeed because an internal error occurred. Try again later.

### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

## **ResourceNotFoundException**

A resource that is required for the action wasn't found.

### **ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

## **ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

### **ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

## **ValidationException**

The operation did not succeed because a validation error occurred.

### **ErrorCode**

A description of what caused the validation error.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# GetVirtualMachine

By providing the ARN (Amazon Resource Name), this API returns the virtual machine.

## Request Syntax

```
{  
  "ResourceArn": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### [ResourceArn](#)

The Amazon Resource Name (ARN) of the virtual machine.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

Required: Yes

## Response Syntax

```
{  
  "VirtualMachine": {  
    "HostName": "string",  
    "HypervisorId": "string",  
    "LastBackupDate": number,  
    "Name": "string",  
    "Path": "string",  
    "ResourceArn": "string",  
    "VmwareTags": [  

```

```
{
  {
    "VmwareCategory": "string",
    "VmwareTagDescription": "string",
    "VmwareTagName": "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.

### VirtualMachine

This object contains the basic attributes of `VirtualMachine` contained by the output of `GetVirtualMachine`

Type: [VirtualMachineDetails](#) object

## Errors

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

### InternalServerError

The operation did not succeed because an internal error occurred. Try again later.

#### ErrorCode

A description of which internal error occurred.

HTTP Status Code: 500

### ResourceNotFoundException

A resource that is required for the action wasn't found.

#### ErrorCode

A description of which resource wasn't found.

HTTP Status Code: 400

### **ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

#### **ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

### **ValidationException**

The operation did not succeed because a validation error occurred.

#### **ErrorCode**

A description of what caused the validation error.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ImportHypervisorConfiguration

Connect to a hypervisor by importing its configuration.

## Request Syntax

```
{
  "Host": "string",
  "KmsKeyArn": "string",
  "Name": "string",
  "Password": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ],
  "Username": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### Host

The server host of the hypervisor. This can be either an IP address or a fully-qualified domain name (FQDN).

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

Pattern: . +

Required: Yes

### KmsKeyArn

The AWS Key Management Service for the hypervisor.

Type: String

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

Pattern: `(^arn:(aws|aws-cn|aws-us-gov):kms:([a-zA-Z0-9-]+):([0-9]+):(key|alias)/(\S+)$)|(^alias/(\S+)$)`

Required: No

### Name

The name of the hypervisor.

Type: String

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

Pattern: `[a-zA-Z0-9-]*`

Required: Yes

### Password

The password for the hypervisor.

Type: String

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

Pattern: `[ -~]+`

Required: No

### Tags

The tags of the hypervisor configuration to import.

Type: Array of [Tag](#) objects

Required: No

### Username

The username for the hypervisor.

Type: String

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

Pattern: [ -\.0-\[\]-~]\*[!-\.0-\[\]-~][ -\.0-\[\]-~]\*

Required: No

## Response Syntax

```
{  
  "HypervisorArn": "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.

### [HypervisorArn](#)

The Amazon Resource Name (ARN) of the hypervisor you disassociated.

Type: String

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

Pattern: arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z0-9+]{3})\/[a-zA-Z0-9+]

## Errors

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

### **AccessDeniedException**

The operation cannot proceed because you have insufficient permissions.

#### **ErrorCode**

A description of why you have insufficient permissions.

HTTP Status Code: 400

### **ConflictException**

The operation cannot proceed because it is not supported.

#### **ErrorCode**

A description of why the operation is not supported.

HTTP Status Code: 400

### **InternalServerErrorException**

The operation did not succeed because an internal error occurred. Try again later.

#### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

### **ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

#### **ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

### **ValidationException**

The operation did not succeed because a validation error occurred.

#### **ErrorCode**

A description of what caused the validation error.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListGateways

Lists backup gateways owned by an AWS account in an AWS Region. The returned list is ordered by gateway Amazon Resource Name (ARN).

## Request Syntax

```
{  
  "MaxResults": number,  
  "NextToken": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### MaxResults

The maximum number of gateways to list.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

### NextToken

The next item following a partial list of returned resources. For example, if a request is made to return `MaxResults` number of resources, `NextToken` allows you to return more items in your list starting at the location pointed to by the next token.

Type: String

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

Pattern: `.+`

Required: No

## Response Syntax

```
{
  "Gateways": [
    {
      "GatewayArn": "string",
      "GatewayDisplayName": "string",
      "GatewayType": "string",
      "HypervisorId": "string",
      "LastSeenTime": number
    }
  ],
  "NextToken": "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

A list of your gateways.

Type: Array of [Gateway](#) objects

### NextToken

The next item following a partial list of returned resources. For example, if a request is made to return `maxResults` number of resources, `NextToken` allows you to return more items in your list starting at the location pointed to by the next token.

Type: String

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

Pattern: . +

## Errors

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

## InternalServerErrorException

The operation did not succeed because an internal error occurred. Try again later.

### ErrorCode

A description of which internal error occurred.

HTTP Status Code: 500

## ThrottlingException

TPS has been limited to protect against intentional or unintentional high request volumes.

### ErrorCode

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

## ValidationException

The operation did not succeed because a validation error occurred.

### ErrorCode

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListHypervisors

Lists your hypervisors.

## Request Syntax

```
{  
  "MaxResults": number,  
  "NextToken": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### MaxResults

The maximum number of hypervisors to list.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

### NextToken

The next item following a partial list of returned resources. For example, if a request is made to return `maxResults` number of resources, `NextToken` allows you to return more items in your list starting at the location pointed to by the next token.

Type: String

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

Pattern: .+

Required: No

## Response Syntax

```
{
  "Hypervisors": [
    {
      "Host": "string",
      "HypervisorArn": "string",
      "KmsKeyArn": "string",
      "Name": "string",
      "State": "string"
    }
  ],
  "NextToken": "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.

### Hypervisors

A list of your Hypervisor objects, ordered by their Amazon Resource Names (ARNs).

Type: Array of [Hypervisor](#) objects

### NextToken

The next item following a partial list of returned resources. For example, if a request is made to return `maxResults` number of resources, `NextToken` allows you to return more items in your list starting at the location pointed to by the next token.

Type: String

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

Pattern: . +

## Errors

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

## InternalServerError

The operation did not succeed because an internal error occurred. Try again later.

### ErrorCode

A description of which internal error occurred.

HTTP Status Code: 500

## ThrottlingException

TPS has been limited to protect against intentional or unintentional high request volumes.

### ErrorCode

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

## ValidationException

The operation did not succeed because a validation error occurred.

### ErrorCode

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListTagsForResource

Lists the tags applied to the resource identified by its Amazon Resource Name (ARN).

## Request Syntax

```
{  
  "ResourceArn": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### ResourceArn

The Amazon Resource Name (ARN) of the resource's tags to list.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\|[a-zA-Z-0-9]{3}`

Required: Yes

## Response Syntax

```
{  
  "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.

### ResourceArn

The Amazon Resource Name (ARN) of the resource's tags that you listed.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

### Tags

A list of the resource's tags.

Type: Array of [Tag](#) objects

## Errors

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

### **InternalServerError**

The operation did not succeed because an internal error occurred. Try again later.

#### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

A resource that is required for the action wasn't found.

#### **ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

### **ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

#### **ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

### **ValidationException**

The operation did not succeed because a validation error occurred.

#### **ErrorCode**

A description of what caused the validation error.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# ListVirtualMachines

Lists your virtual machines.

## Request Syntax

```
{  
  "HypervisorArn": "string",  
  "MaxResults": number,  
  "NextToken": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### [HypervisorArn](#)

The Amazon Resource Name (ARN) of the hypervisor connected to your virtual machine.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

Required: No

### [MaxResults](#)

The maximum number of virtual machines to list.

Type: Integer

Valid Range: Minimum value of 1.

Required: No

## NextToken

The next item following a partial list of returned resources. For example, if a request is made to return `maxResults` number of resources, `NextToken` allows you to return more items in your list starting at the location pointed to by the next token.

Type: String

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

Pattern: .+

Required: No

## Response Syntax

```
{
  "NextToken": "string",
  "VirtualMachines": [
    {
      "HostName": "string",
      "HypervisorId": "string",
      "LastBackupDate": number,
      "Name": "string",
      "Path": "string",
      "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.

## NextToken

The next item following a partial list of returned resources. For example, if a request is made to return `maxResults` number of resources, `NextToken` allows you to return more items in your list starting at the location pointed to by the next token.

Type: String

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

Pattern: . +

### VirtualMachines

A list of your `VirtualMachine` objects, ordered by their Amazon Resource Names (ARNs).

Type: Array of [VirtualMachine](#) objects

## Errors

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

### InternalServerError

The operation did not succeed because an internal error occurred. Try again later.

#### ErrorCode

A description of which internal error occurred.

HTTP Status Code: 500

### ThrottlingException

TPS has been limited to protect against intentional or unintentional high request volumes.

#### ErrorCode

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

### ValidationException

The operation did not succeed because a validation error occurred.

#### ErrorCode

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# PutBandwidthRateLimitSchedule

This action sets the bandwidth rate limit schedule for a specified gateway. By default, gateways do not have a bandwidth rate limit schedule, which means no bandwidth rate limiting is in effect. Use this to initiate a gateway's bandwidth rate limit schedule.

## Request Syntax

```
{
  "BandwidthRateLimitIntervals": [
    {
      "AverageUploadRateLimitInBitsPerSec": number,
      "DaysOfWeek": [ number ],
      "EndHourOfDay": number,
      "EndMinuteOfHour": number,
      "StartHourOfDay": number,
      "StartMinuteOfHour": number
    }
  ],
  "GatewayArn": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### BandwidthRateLimitIntervals

An array containing bandwidth rate limit schedule intervals for a gateway. When no bandwidth rate limit intervals have been scheduled, the array is empty.

Type: Array of [BandwidthRateLimitInterval](#) objects

Array Members: Minimum number of 0 items. Maximum number of 20 items.

Required: Yes

### GatewayArn

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

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

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](#)

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

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

## Errors

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

### **InternalServerErrorException**

The operation did not succeed because an internal error occurred. Try again later.

**ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

**ResourceNotFoundException**

A resource that is required for the action wasn't found.

**ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

**ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

**ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

**ValidationException**

The operation did not succeed because a validation error occurred.

**ErrorCode**

A description of what caused the validation error.

HTTP Status Code: 400

**See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# PutHypervisorPropertyMappings

This action sets the property mappings for the specified hypervisor. A hypervisor property mapping displays the relationship of entity properties available from the hypervisor to the properties available in AWS.

## Request Syntax

```
{
  "HypervisorArn": "string",
  "IamRoleArn": "string",
  "VmwareToAwsTagMappings": [
    {
      "AwsTagKey": "string",
      "AwsTagValue": "string",
      "VmwareCategory": "string",
      "VmwareTagName": "string"
    }
  ]
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### HypervisorArn

The Amazon Resource Name (ARN) of the hypervisor.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

Required: Yes

### IamRoleArn

The Amazon Resource Name (ARN) of the IAM role.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:(aws|aws-cn|aws-us-gov):iam:([0-9]+):role/(\\S+)`

Required: Yes

### [VmwareToAwsTagMappings](#)

This action requests the mappings of VMware tags to the AWS tags.

Type: Array of [VmwareToAwsTagMapping](#) objects

Required: Yes

## Response Syntax

```
{  
  "HypervisorArn": "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.

### [HypervisorArn](#)

The Amazon Resource Name (ARN) of the hypervisor.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}[/[a-zA-Z-0-9]+`

## Errors

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

## **AccessDeniedException**

The operation cannot proceed because you have insufficient permissions.

### **ErrorCode**

A description of why you have insufficient permissions.

HTTP Status Code: 400

## **ConflictException**

The operation cannot proceed because it is not supported.

### **ErrorCode**

A description of why the operation is not supported.

HTTP Status Code: 400

## **InternalServerError**

The operation did not succeed because an internal error occurred. Try again later.

### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

## **ResourceNotFoundException**

A resource that is required for the action wasn't found.

### **ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

## **ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

### **ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

## ValidationException

The operation did not succeed because a validation error occurred.

### ErrorCode

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# PutMaintenanceStartTime

Set the maintenance start time for a gateway.

## Request Syntax

```
{  
  "DayOfMonth": number,  
  "DayOfWeek": number,  
  "GatewayArn": "string",  
  "HourOfDay": number,  
  "MinuteOfHour": number  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### DayOfMonth

The day of the month start maintenance on a gateway.

Valid values range from Sunday to Saturday.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 31.

Required: No

### DayOfWeek

The day of the week to start maintenance on a gateway.

Type: Integer

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

Required: No

## GatewayArn

The Amazon Resource Name (ARN) for the gateway, used to specify its maintenance start time.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

Required: Yes

## HourOfDay

The hour of the day to start maintenance on a gateway.

Type: Integer

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

Required: Yes

## MinuteOfHour

The minute of the hour to start maintenance on a 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

The Amazon Resource Name (ARN) of a gateway for which you set the maintenance start time.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\/[a-zA-Z-0-9]+`

## Errors

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

### **ConflictException**

The operation cannot proceed because it is not supported.

#### **ErrorCode**

A description of why the operation is not supported.

HTTP Status Code: 400

### **InternalServerErrorException**

The operation did not succeed because an internal error occurred. Try again later.

#### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

A resource that is required for the action wasn't found.

#### **ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

## ThrottlingException

TPS has been limited to protect against intentional or unintentional high request volumes.

### ErrorCode

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

## ValidationException

The operation did not succeed because a validation error occurred.

### ErrorCode

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# StartVirtualMachinesMetadataSync

This action sends a request to sync metadata across the specified virtual machines.

## Request Syntax

```
{  
  "HypervisorArn": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### [HypervisorArn](#)

The Amazon Resource Name (ARN) of the hypervisor.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

Required: Yes

## Response Syntax

```
{  
  "HypervisorArn": "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.

## HypervisorArn

The Amazon Resource Name (ARN) of the hypervisor.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\|[a-zA-Z-0-9]{3}`

## Errors

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

### **AccessDeniedException**

The operation cannot proceed because you have insufficient permissions.

#### **ErrorCode**

A description of why you have insufficient permissions.

HTTP Status Code: 400

### **InternalServerError**

The operation did not succeed because an internal error occurred. Try again later.

#### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

A resource that is required for the action wasn't found.

#### **ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

## ThrottlingException

TPS has been limited to protect against intentional or unintentional high request volumes.

### ErrorCode

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

## ValidationException

The operation did not succeed because a validation error occurred.

### ErrorCode

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# TagResource

Tag the resource.

## 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](#).

The request accepts the following data in JSON format.

### [ResourceARN](#)

The Amazon Resource Name (ARN) of the resource to tag.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\/[a-zA-Z-0-9]{3}`

Required: Yes

### [Tags](#)

A list of tags to assign to the resource.

Type: Array of [Tag](#) 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

The Amazon Resource Name (ARN) of the resource you tagged.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\/[a-zA-Z-0-9]{3}`

## Errors

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

### **InternalServerError**

The operation did not succeed because an internal error occurred. Try again later.

#### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

A resource that is required for the action wasn't found.

#### **ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

### **ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

#### **ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

### **ValidationException**

The operation did not succeed because a validation error occurred.

#### **ErrorCode**

A description of what caused the validation error.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# TestHypervisorConfiguration

Tests your hypervisor configuration to validate that backup gateway can connect with the hypervisor and its resources.

## Request Syntax

```
{
  "GatewayArn": "string",
  "Host": "string",
  "Password": "string",
  "Username": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### [GatewayArn](#)

The Amazon Resource Name (ARN) of the gateway to the hypervisor to test.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\|[a-zA-Z-0-9]{3}`

Required: Yes

### [Host](#)

The server host of the hypervisor. This can be either an IP address or a fully-qualified domain name (FQDN).

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

Pattern: . +

Required: Yes

### Password

The password for the hypervisor.

Type: String

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

Pattern: [ -~ ]+

Required: No

### Username

The username for the hypervisor.

Type: String

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

Pattern: [ -\.0-\[\]-~ ]\*[ !-\\.0-\[\]-~ ] [ -\.0-\[\]-~ ]\*

Required: No

## Response Elements

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

## Errors

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

### **ConflictException**

The operation cannot proceed because it is not supported.

#### **ErrorCode**

A description of why the operation is not supported.

HTTP Status Code: 400

## InternalServerError

The operation did not succeed because an internal error occurred. Try again later.

### ErrorCode

A description of which internal error occurred.

HTTP Status Code: 500

## ResourceNotFoundException

A resource that is required for the action wasn't found.

### ErrorCode

A description of which resource wasn't found.

HTTP Status Code: 400

## ThrottlingException

TPS has been limited to protect against intentional or unintentional high request volumes.

### ErrorCode

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

## ValidationException

The operation did not succeed because a validation error occurred.

### ErrorCode

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)

- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UntagResource

Removes tags from the resource.

## Request Syntax

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

## Request Parameters

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

The request accepts the following data in JSON format.

### ResourceARN

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

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\|[a-zA-Z-0-9]{3}`

Required: Yes

### TagKeys

The list of tag keys specifying which tags to remove.

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

The Amazon Resource Name (ARN) of the resource from which you removed tags.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

## Errors

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

### **InternalServerError**

The operation did not succeed because an internal error occurred. Try again later.

#### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

A resource that is required for the action wasn't found.

#### **ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

### **ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

#### **ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

### **ValidationException**

The operation did not succeed because a validation error occurred.

#### **ErrorCode**

A description of what caused the validation error.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateGatewayInformation

Updates a gateway's name. Specify which gateway to update using the Amazon Resource Name (ARN) of the gateway in your request.

## Request Syntax

```
{
  "GatewayArn": "string",
  "GatewayDisplayName": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### GatewayArn

The Amazon Resource Name (ARN) of the gateway to update.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\|[a-zA-Z-0-9]{3}`

Required: Yes

### GatewayDisplayName

The updated display name of the gateway.

Type: String

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

Pattern: `[a-zA-Z0-9-]*`

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

The Amazon Resource Name (ARN) of the gateway you updated.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

## Errors

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

### **ConflictException**

The operation cannot proceed because it is not supported.

#### **ErrorCode**

A description of why the operation is not supported.

HTTP Status Code: 400

### **InternalServerError**

The operation did not succeed because an internal error occurred. Try again later.

#### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

A resource that is required for the action wasn't found.

#### **ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

### **ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

#### **ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

### **ValidationException**

The operation did not succeed because a validation error occurred.

#### **ErrorCode**

A description of what caused the validation error.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)

- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# 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.

## Request Syntax

```
{  
  "GatewayArn": "string"  
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### GatewayArn

The Amazon Resource Name (ARN) of the gateway to be updated.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

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

The Amazon Resource Name (ARN) of the gateway you updated.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\|[a-zA-Z-0-9]{3}`

## Errors

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

### **InternalServerError**

The operation did not succeed because an internal error occurred. Try again later.

#### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

A resource that is required for the action wasn't found.

#### **ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

## ThrottlingException

TPS has been limited to protect against intentional or unintentional high request volumes.

### ErrorCode

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

## ValidationException

The operation did not succeed because a validation error occurred.

### ErrorCode

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateHypervisor

Updates a hypervisor metadata, including its host, username, and password. Specify which hypervisor to update using the Amazon Resource Name (ARN) of the hypervisor in your request.

## Request Syntax

```
{
  "Host": "string",
  "HypervisorArn": "string",
  "LogGroupArn": "string",
  "Name": "string",
  "Password": "string",
  "Username": "string"
}
```

## Request Parameters

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

The request accepts the following data in JSON format.

### Host

The updated host of the hypervisor. This can be either an IP address or a fully-qualified domain name (FQDN).

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

Pattern: . +

Required: No

### HypervisorArn

The Amazon Resource Name (ARN) of the hypervisor to update.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\|[a-zA-Z-0-9]+`

Required: Yes

### LogGroupArn

The Amazon Resource Name (ARN) of the group of gateways within the requested log.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `^\^arn:(aws|aws-cn|aws-us-gov):logs:([a-zA-Z0-9-]+):([0-9]+):log-group:[a-zA-Z0-9_-\|\.]+\^*`

Required: No

### Name

The updated name for the hypervisor

Type: String

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

Pattern: `[a-zA-Z0-9-]*`

Required: No

### Password

The updated password for the hypervisor.

Type: String

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

Pattern: `[ -~]+`

Required: No

### Username

The updated username for the hypervisor.

Type: String

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

Pattern: [ -\.0-\[\]-~]\*[!-\.0-\[\]-~][ -\.0-\[\]-~]\*

Required: No

## Response Syntax

```
{  
  "HypervisorArn": "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.

### [HypervisorArn](#)

The Amazon Resource Name (ARN) of the hypervisor you updated.

Type: String

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

Pattern: arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z0-9+]){3}\/[a-zA-Z0-9]+

## Errors

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

### **AccessDeniedException**

The operation cannot proceed because you have insufficient permissions.

#### **ErrorCode**

A description of why you have insufficient permissions.

HTTP Status Code: 400

### **ConflictException**

The operation cannot proceed because it is not supported.

#### **ErrorCode**

A description of why the operation is not supported.

HTTP Status Code: 400

### **InternalServerErrorException**

The operation did not succeed because an internal error occurred. Try again later.

#### **ErrorCode**

A description of which internal error occurred.

HTTP Status Code: 500

### **ResourceNotFoundException**

A resource that is required for the action wasn't found.

#### **ErrorCode**

A description of which resource wasn't found.

HTTP Status Code: 400

### **ThrottlingException**

TPS has been limited to protect against intentional or unintentional high request volumes.

#### **ErrorCode**

Error: TPS has been limited to protect against intentional or unintentional high request volumes.

HTTP Status Code: 400

### **ValidationException**

The operation did not succeed because a validation error occurred.

#### **ErrorCode**

A description of what caused the validation error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# Data Types

The AWS Backup 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:

- [BandwidthRateLimitInterval](#)
- [Gateway](#)
- [GatewayDetails](#)
- [Hypervisor](#)
- [HypervisorDetails](#)
- [MaintenanceStartTime](#)
- [Tag](#)
- [VirtualMachine](#)
- [VirtualMachineDetails](#)
- [VmwareTag](#)
- [VmwareToAwsTagMapping](#)

# BandwidthRateLimitInterval

Describes a bandwidth rate limit interval for a gateway. A bandwidth rate limit schedule consists of one or more bandwidth rate limit intervals. A bandwidth rate limit interval defines a period of time on one or more days of the week, during which bandwidth rate limits are specified for uploading.

## Contents

### DaysOfWeek

The days of the week component of the bandwidth rate limit interval, represented as ordinal numbers from 0 to 6, where 0 represents Sunday and 6 represents Saturday.

Type: Array of integers

Array Members: Minimum number of 1 item. Maximum number of 7 items.

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

Required: Yes

### EndHourOfDay

The hour of the day to end the bandwidth rate limit interval.

Type: Integer

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

Required: Yes

### EndMinuteOfHour

The minute of the hour to end the bandwidth rate limit interval.

#### Important

The bandwidth rate limit interval ends at the end of the minute. To end an interval at the end of an hour, use the value 59.

Type: Integer

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

Required: Yes

### **StartHourOfDay**

The hour of the day to start the bandwidth rate limit interval.

Type: Integer

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

Required: Yes

### **StartMinuteOfHour**

The minute of the hour to start the bandwidth rate limit interval. The interval begins at the start of that minute. To begin an interval exactly at the start of the hour, use the value 0.

Type: Integer

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

Required: Yes

### **AverageUploadRateLimitInBitsPerSec**

The average upload rate limit component of the bandwidth rate limit interval, 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. Maximum value of 8000000000000.

Required: No

## **See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# Gateway

A gateway is an AWS Backup Gateway appliance that runs on the customer's network to provide seamless connectivity to backup storage in the AWS Cloud.

## Contents

### GatewayArn

The Amazon Resource Name (ARN) of the gateway. Use the `ListGateways` operation to return a list of gateways for your account and AWS Region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\/[a-zA-Z-0-9]+`

Required: No

### GatewayDisplayName

The display name of the gateway.

Type: String

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

Pattern: `[a-zA-Z0-9-]*`

Required: No

### GatewayType

The type of the gateway.

Type: String

Valid Values: `BACKUP_VM`

Required: No

## HypervisorId

The hypervisor ID of the gateway.

Type: String

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

Required: No

## LastSeenTime

The last time AWS Backup gateway communicated with the gateway, in Unix format and UTC time.

Type: Timestamp

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# GatewayDetails

The details of gateway.

## Contents

### DeprecationDate

Date after which this gateway will not receive software updates for new features and bug fixes.

Type: Timestamp

Required: No

### GatewayArn

The Amazon Resource Name (ARN) of the gateway. Use the `ListGateways` operation to return a list of gateways for your account and AWS Region.

Type: String

Length Constraints: Minimum length of 50. Maximum length of 180.

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

Required: No

### GatewayDisplayName

The display name of the gateway.

Type: String

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

Pattern: `[a-zA-Z0-9-]*`

Required: No

### GatewayType

The type of the gateway type.

Type: String

Valid Values: BACKUP\_VM

Required: No

### **HypervisorId**

The hypervisor ID of the gateway.

Type: String

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

Required: No

### **LastSeenTime**

Details showing the last time AWS Backup gateway communicated with the cloud, in Unix format and UTC time.

Type: Timestamp

Required: No

### **MaintenanceStartTime**

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. Can be weekly or monthly.

Type: [MaintenanceStartTime](#) object

Required: No

### **NextUpdateAvailabilityTime**

Details showing the next update availability time of the gateway.

Type: Timestamp

Required: No

### **SoftwareVersion**

The version number of the software running on the gateway appliance.

Type: String

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

Pattern: [a-zA-Z0-9-]\*

Required: No

## VpcEndpoint

The DNS name for the virtual private cloud (VPC) endpoint the gateway uses to connect to the cloud for backup gateway.

Type: String

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

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Hypervisor

Represents the hypervisor's permissions to which the gateway will connect.

A hypervisor is hardware, software, or firmware that creates and manages virtual machines, and allocates resources to them.

## Contents

### Host

The server host of the hypervisor. This can be either an IP address or a fully-qualified domain name (FQDN).

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

Pattern: .+

Required: No

### HypervisorArn

The Amazon Resource Name (ARN) of the hypervisor.

Type: String

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

Pattern: arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\/[a-zA-Z-0-9]{+}

Required: No

### KmsKeyArn

The Amazon Resource Name (ARN) of the AWS Key Management Service used to encrypt the hypervisor.

Type: String

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

Pattern: `(^arn:(aws|aws-cn|aws-us-gov):kms:([a-zA-Z0-9-]+):([0-9]+):(key|alias)/(\S+)$)|(^alias/(\S+)$)`

Required: No

## Name

The name of the hypervisor.

Type: String

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

Pattern: `[a-zA-Z0-9-]*`

Required: No

## State

The state of the hypervisor.

Type: String

Valid Values: PENDING | ONLINE | OFFLINE | ERROR

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# HypervisorDetails

These are the details of the specified hypervisor. A hypervisor is hardware, software, or firmware that creates and manages virtual machines, and allocates resources to them.

## Contents

### Host

The server host of the hypervisor. This can be either an IP address or a fully-qualified domain name (FQDN).

Type: String

Length Constraints: Minimum length of 3. Maximum length of 128.

Pattern: .+

Required: No

### HypervisorArn

The Amazon Resource Name (ARN) of the hypervisor.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\|[a-zA-Z-0-9]{3}`

Required: No

### KmsKeyArn

The Amazon Resource Name (ARN) of the AWS KMS used to encrypt the hypervisor.

Type: String

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

Pattern: `(^arn:(aws|aws-cn|aws-us-gov):kms:([a-zA-Z0-9-]{3}):([0-9]{3}):key|alias)/(\S+)\$|^alias/(\S+)\$`

Required: No

### **LastSuccessfulMetadataSyncTime**

This is the time when the most recent successful sync of metadata occurred.

Type: Timestamp

Required: No

### **LatestMetadataSyncStatus**

This is the most recent status for the indicated metadata sync.

Type: String

Valid Values: CREATED | RUNNING | FAILED | PARTIALLY\_FAILED | SUCCEEDED

Required: No

### **LatestMetadataSyncStatusMessage**

This is the most recent status for the indicated metadata sync.

Type: String

Required: No

### **LogGroupArn**

The Amazon Resource Name (ARN) of the group of gateways within the requested log.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

Pattern: `^arn:(aws|aws-cn|aws-us-gov):logs:([a-zA-Z0-9-]+):([0-9]+):log-group:[a-zA-Z0-9_-\./\*]+:\*`

Required: No

### **Name**

This is the name of the specified hypervisor.

Type: String

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

Pattern: [a-zA-Z0-9-]\*

Required: No

## State

This is the current state of the specified hypervisor.

The possible states are PENDING, ONLINE, OFFLINE, or ERROR.

Type: String

Valid Values: PENDING | ONLINE | OFFLINE | ERROR

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MaintenanceStartTime

This is 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. Can be weekly or monthly.

## Contents

### HourOfDay

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.

Required: Yes

### MinuteOfHour

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.

Required: Yes

### DayOfMonth

The day of the month component of the maintenance start time represented as an ordinal number from 1 to 28, where 1 represents the first day of the month and 28 represents the last day of the month.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 31.

Required: No

### DayOfWeek

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.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Tag

A key-value pair you can use to manage, filter, and search for your resources. Allowed characters include UTF-8 letters, numbers, and the following characters: + - = . \_ : /. Spaces are not allowed in tag values.

## Contents

### Key

The key part of a tag's key-value pair. The key can't start with `aws :`.

Type: String

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

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

Required: Yes

### Value

The value part of a tag's key-value pair.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[\^\x00]*`

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# VirtualMachine

A virtual machine that is on a hypervisor.

## Contents

### HostName

The host name of the virtual machine.

Type: String

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

Pattern: [a-zA-Z0-9-]\*

Required: No

### HypervisorId

The ID of the virtual machine's hypervisor.

Type: String

Required: No

### LastBackupDate

The most recent date a virtual machine was backed up, in Unix format and UTC time.

Type: Timestamp

Required: No

### Name

The name of the virtual machine.

Type: String

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

Pattern: [a-zA-Z0-9-]\*

Required: No

## Path

The path of the virtual machine.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[^\x00]+`

Required: No

## ResourceArn

The Amazon Resource Name (ARN) of the virtual machine. For example, `arn:aws:backup-gateway:us-west-1:0000000000000000:vm/vm-0000ABCDEFGHIJKL`.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]{3})\[/code>`

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# VirtualMachineDetails

Your VirtualMachine objects, ordered by their Amazon Resource Names (ARNs).

## Contents

### HostName

The host name of the virtual machine.

Type: String

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

Pattern: [a-zA-Z0-9-]\*

Required: No

### HypervisorId

The ID of the virtual machine's hypervisor.

Type: String

Required: No

### LastBackupDate

The most recent date a virtual machine was backed up, in Unix format and UTC time.

Type: Timestamp

Required: No

### Name

The name of the virtual machine.

Type: String

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

Pattern: [a-zA-Z0-9-]\*

Required: No

## Path

The path of the virtual machine.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 4096.

Pattern: `[\x00]+`

Required: No

## ResourceArn

The Amazon Resource Name (ARN) of the virtual machine. For example, `arn:aws:backup-gateway:us-west-1:000000000000:vm/vm-0000ABCDEFGHIJKL`.

Type: String

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

Pattern: `arn:(aws|aws-cn|aws-us-gov):backup-gateway(:[a-zA-Z-0-9]+){3}\/[a-zA-Z-0-9]+`

Required: No

## VmwareTags

These are the details of the VMware tags associated with the specified virtual machine.

Type: Array of [VmwareTag](#) objects

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)



# VmwareTag

A VMware tag is a tag attached to a specific virtual machine. A [tag](#) is a key-value pair you can use to manage, filter, and search for your resources.

The content of VMware tags can be matched to AWS tags.

## Contents

### VmwareCategory

This is the category of VMware.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 80.

Required: No

### VmwareTagDescription

This is a user-defined description of a VMware tag.

Type: String

Required: No

### VmwareTagName

This is the user-defined name of a VMware tag.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 80.

Required: No

## See Also

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

- [AWS SDK for C++](#)

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# VmwareToAwsTagMapping

This displays the mapping of VMware tags to the corresponding AWS tags.

## Contents

### AwsTagKey

The key part of the AWS tag's key-value pair.

Type: String

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

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

Required: Yes

### AwsTagValue

The value part of the AWS tag's key-value pair.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[^\x00]*`

Required: Yes

### VmwareCategory

The is the category of VMware.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 80.

Required: Yes

### VmwareTagName

This is the user-defined name of a VMware tag.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 80.

Required: Yes

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

## 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 [Create a signed AWS API request](#) in the *IAM User Guide*.

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 [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, 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 [Create a signed AWS API request](#) in the *IAM User Guide*.

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 Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

## **AccessDeniedException**

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

## **IncompleteSignature**

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

## **InternalFailure**

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

## **MalformedHttpRequestException**

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

**NotAuthorized**

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

**OptInRequired**

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

**RequestAbortedException**

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

**RequestEntityTooLargeException**

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

**RequestTimeoutException**

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

**ServiceUnavailable**

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

**ThrottlingException**

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

## **UnknownOperationException**

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

## **UnrecognizedClientException**

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

## **ValidationError**

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400