



Welcome

# Recycle Bin



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## Recycle Bin: Welcome

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# Welcome

This is the *Recycle Bin API Reference*. This documentation provides descriptions and syntax for each of the actions and data types in Recycle Bin.

Recycle Bin is a resource recovery feature that enables you to restore accidentally deleted EBS volumes, EBS snapshots, and EBS-backed AMIs. When using Recycle Bin, if your resources are deleted, they are retained in the Recycle Bin for a time period that you specify.

You can restore a resource from the Recycle Bin at any time before its retention period expires. After you restore a resource from the Recycle Bin, the resource is removed from the Recycle Bin, and you can then use it in the same way you use any other resource of that type in your account. If the retention period expires and the resource is not restored, the resource is permanently deleted from the Recycle Bin and is no longer available for recovery. For more information about Recycle Bin, see [Recycle Bin](#) in the *Amazon Elastic Compute Cloud User Guide*.

This document was last published on April 30, 2026.

# Actions

The following actions are supported:

- [CreateRule](#)
- [DeleteRule](#)
- [GetRule](#)
- [ListRules](#)
- [ListTagsForResource](#)
- [LockRule](#)
- [TagResource](#)
- [UnlockRule](#)
- [UntagResource](#)
- [UpdateRule](#)

# CreateRule

Creates a Recycle Bin retention rule. You can create two types of retention rules:

- **Tag-level retention rules** - These retention rules use resource tags to identify the resources to protect. For each retention rule, you specify one or more tag key and value pairs. Resources (of the specified type) that have at least one of these tag key and value pairs are automatically retained in the Recycle Bin upon deletion. Use this type of retention rule to protect specific resources in your account based on their tags.
- **Region-level retention rules** - These retention rules, by default, apply to all of the resources (of the specified type) in the Region, even if the resources are not tagged. However, you can specify exclusion tags to exclude resources that have specific tags. Use this type of retention rule to protect all resources of a specific type in a Region.

For more information, see [Create Recycle Bin retention rules](#) in the *Amazon EBS User Guide*.

## Request Syntax

```
POST /rules HTTP/1.1
Content-type: application/json

{
  "Description": "string",
  "ExcludeResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "LockConfiguration": {
    "UnlockDelay": {
      "UnlockDelayUnit": "string",
      "UnlockDelayValue": number
    }
  },
  "ResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ]
}
```

```
],
  "ResourceType": "string",
  "RetentionPeriod": {
    "RetentionPeriodUnit": "string",
    "RetentionPeriodValue": number
  },
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### Description

The retention rule description.

Type: String

Pattern: `^[\\S ]{0,255}$`

Required: No

### ExcludeResourceTags

[Region-level retention rules only] Specifies the exclusion tags to use to identify resources that are to be excluded, or ignored, by a Region-level retention rule. Resources that have any of these tags are not retained by the retention rule upon deletion.

You can't specify exclusion tags for tag-level retention rules.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

### LockConfiguration

Information about the retention rule lock configuration.

Type: [LockConfiguration](#) object

Required: No

### ResourceTags

[Tag-level retention rules only] Specifies the resource tags to use to identify resources that are to be retained by a tag-level retention rule. For tag-level retention rules, only deleted resources, of the specified resource type, that have one or more of the specified tag key and value pairs are retained. If a resource is deleted, but it does not have any of the specified tag key and value pairs, it is immediately deleted without being retained by the retention rule.

You can add the same tag key and value pair to a maximum of five retention rules.

To create a Region-level retention rule, omit this parameter. A Region-level retention rule does not have any resource tags specified. It retains all deleted resources of the specified resource type in the Region in which the rule is created, even if the resources are not tagged.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

### ResourceType

The resource type to be retained by the retention rule. Currently, only EBS volumes, EBS snapshots, and EBS-backed AMIs are supported.

- To retain EBS volumes, specify EBS\_VOLUME.
- To retain EBS snapshots, specify EBS\_SNAPSHOT
- To retain EBS-backed AMIs, specify EC2\_IMAGE.

Type: String

Valid Values: EBS\_SNAPSHOT | EC2\_IMAGE | EBS\_VOLUME

Required: Yes

## RetentionPeriod

Information about the retention period for which the retention rule is to retain resources.

Type: [RetentionPeriod](#) object

Required: Yes

## Tags

Information about the tags to assign to the retention rule.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "Description": "string",
  "ExcludeResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "Identifier": "string",
  "LockConfiguration": {
    "UnlockDelay": {
      "UnlockDelayUnit": "string",
      "UnlockDelayValue": number
    }
  },
  "LockState": "string",
  "ResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ]
}
```

```
    }
  ],
  "ResourceType": "string",
  "RetentionPeriod": {
    "RetentionPeriodUnit": "string",
    "RetentionPeriodValue": number
  },
  "RuleArn": "string",
  "Status": "string",
  "Tags": [
    {
      "Key": "string",
      "Value": "string"
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

### Description

The retention rule description.

Type: String

Pattern: `^[\\S ]{0,255}$`

### ExcludeResourceTags

[Region-level retention rules only] Information about the exclusion tags used to identify resources that are to be excluded, or ignored, by the retention rule.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

### Identifier

The unique ID of the retention rule.

Type: String

Pattern: [0-9a-zA-Z]{11}

### LockConfiguration

Information about the retention rule lock configuration.

Type: [LockConfiguration](#) object

### LockState

[Region-level retention rules only] The lock state for the retention rule.

- `locked` - The retention rule is locked and can't be modified or deleted.
- `pending_unlock` - The retention rule has been unlocked but it is still within the unlock delay period. The retention rule can be modified or deleted only after the unlock delay period has expired.
- `unlocked` - The retention rule is unlocked and it can be modified or deleted by any user with the required permissions.
- `null` - The retention rule has never been locked. Once a retention rule has been locked, it can transition between the `locked` and `unlocked` states only; it can never transition back to `null`.

Type: String

Valid Values: `locked` | `pending_unlock` | `unlocked`

### ResourceTags

[Tag-level retention rules only] Information about the resource tags used to identify resources that are retained by the retention rule.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

### ResourceType

The resource type retained by the retention rule.

Type: String

Valid Values: `EBS_SNAPSHOT` | `EC2_IMAGE` | `EBS_VOLUME`

### RetentionPeriod

Information about the retention period for which the retention rule is to retain resources.

Type: [RetentionPeriod](#) object

### [RuleArn](#)

The Amazon Resource Name (ARN) of the retention rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1011.

Pattern: `^arn:\S+:rbin:[a-z\-\0-9]{0,63}:[0-9]{12}:rule/[0-9a-zA-Z]{11}{0,1011}$`

### [Status](#)

The state of the retention rule. Only retention rules that are in the available state retain resources.

Type: String

Valid Values: pending | available

### [Tags](#)

Information about the tags assigned to the retention rule.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

## Errors

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

### **InternalServerErrorException**

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

### **ServiceQuotaExceededException**

The request would cause a service quota for the number of tags per resource to be exceeded.

**Reason**

The reason for the exception.

HTTP Status Code: 402

**ValidationException**

One or more of the parameters in the request is not valid.

**Reason**

The reason for the exception.

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](#)

# DeleteRule

Deletes a Recycle Bin retention rule. For more information, see [Delete Recycle Bin retention rules](#) in the *Amazon Elastic Compute Cloud User Guide*.

## Request Syntax

```
DELETE /rules/identifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### identifier

The unique ID of the retention rule.

Pattern: `[0-9a-zA-Z]{11}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

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

### ConflictException

The specified retention rule lock request can't be completed.

**Reason**

The reason for the exception.

HTTP Status Code: 409

**InternalServerErrorException**

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource was not found.

**Reason**

The reason for the exception.

HTTP Status Code: 404

**ValidationException**

One or more of the parameters in the request is not valid.

**Reason**

The reason for the exception.

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](#)

# GetRule

Gets information about a Recycle Bin retention rule.

## Request Syntax

```
GET /rules/identifier HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### identifier

The unique ID of the retention rule.

Pattern: [0-9a-zA-Z]{11}

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "Description": "string",
  "ExcludeResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "Identifier": "string",
  "LockConfiguration": {
    "UnlockDelay": {
```

```
    "UnlockDelayUnit": "string",
    "UnlockDelayValue": number
  }
},
"LockEndTime": number,
"LockState": "string",
"ResourceTags": [
  {
    "ResourceTagKey": "string",
    "ResourceTagValue": "string"
  }
],
"ResourceType": "string",
"RetentionPeriod": {
  "RetentionPeriodUnit": "string",
  "RetentionPeriodValue": number
},
"RuleArn": "string",
"Status": "string"
}
```

## Response Elements

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

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

### Description

The retention rule description.

Type: String

Pattern: `^[\\S ]{0,255}$`

### ExcludeResourceTags

[Region-level retention rules only] Information about the exclusion tags used to identify resources that are to be excluded, or ignored, by the retention rule.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

## Identifier

The unique ID of the retention rule.

Type: String

Pattern: `[0-9a-zA-Z]{11}`

## LockConfiguration

Information about the retention rule lock configuration.

Type: [LockConfiguration](#) object

## LockEndTime

The date and time at which the unlock delay is set to expire. Only returned for retention rules that have been unlocked and that are still within the unlock delay period.

Type: Timestamp

## LockState

[Region-level retention rules only] The lock state for the retention rule.

- `locked` - The retention rule is locked and can't be modified or deleted.
- `pending_unlock` - The retention rule has been unlocked but it is still within the unlock delay period. The retention rule can be modified or deleted only after the unlock delay period has expired.
- `unlocked` - The retention rule is unlocked and it can be modified or deleted by any user with the required permissions.
- `null` - The retention rule has never been locked. Once a retention rule has been locked, it can transition between the `locked` and `unlocked` states only; it can never transition back to `null`.

Type: String

Valid Values: `locked` | `pending_unlock` | `unlocked`

## ResourceTags

[Tag-level retention rules only] Information about the resource tags used to identify resources that are retained by the retention rule.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

### [ResourceType](#)

The resource type retained by the retention rule.

Type: String

Valid Values: EBS\_SNAPSHOT | EC2\_IMAGE | EBS\_VOLUME

### [RetentionPeriod](#)

Information about the retention period for which the retention rule is to retain resources.

Type: [RetentionPeriod](#) object

### [RuleArn](#)

The Amazon Resource Name (ARN) of the retention rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1011.

Pattern: `^arn:\S+:rbin:[a-z\-\0-9]{0,63}:[0-9]{12}:rule/[0-9a-zA-Z]{11}{0,1011}$`

### [Status](#)

The state of the retention rule. Only retention rules that are in the available state retain resources.

Type: String

Valid Values: pending | available

## Errors

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

### **InternalServerErrorException**

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource was not found.

#### **Reason**

The reason for the exception.

HTTP Status Code: 404

### **ValidationException**

One or more of the parameters in the request is not valid.

#### **Reason**

The reason for the exception.

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](#)

# ListRules

Lists the Recycle Bin retention rules in the Region.

## Request Syntax

```
POST /list-rules HTTP/1.1
Content-type: application/json

{
  "ExcludeResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "LockState": "string",
  "MaxResults": number,
  "NextToken": "string",
  "ResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "ResourceType": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### ExcludeResourceTags

[Region-level retention rules only] Information about the exclusion tags used to identify resources that are to be excluded, or ignored, by the retention rule.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

### LockState

The lock state of the retention rules to list. Only retention rules with the specified lock state are returned.

Type: String

Valid Values: locked | pending\_unlock | unlocked

Required: No

### MaxResults

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned NextToken value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 1000.

Required: No

### NextToken

The token for the next page of results.

Type: String

Pattern: `^[A-Za-z0-9+/=]{1,2048}$`

Required: No

### ResourceTags

[Tag-level retention rules only] Information about the resource tags used to identify resources that are retained by the retention rule.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

## ResourceType

The resource type retained by the retention rule. Only retention rules that retain the specified resource type are listed. Currently, only EBS volumes, EBS snapshots, and EBS-backed AMIs are supported.

- To list retention rules that retain EBS volumes, specify EBS\_VOLUME.
- To list retention rules that retain EBS snapshots, specify EBS\_SNAPSHOT.
- To list retention rules that retain EBS-backed AMIs, specify EC2\_IMAGE.

Type: String

Valid Values: EBS\_SNAPSHOT | EC2\_IMAGE | EBS\_VOLUME

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "NextToken": "string",
  "Rules": [
    {
      "Description": "string",
      "Identifier": "string",
      "LockState": "string",
      "RetentionPeriod": {
        "RetentionPeriodUnit": "string",
        "RetentionPeriodValue": number
      },
      "RuleArn": "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 token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

Pattern: `^[A-Za-z0-9+/=]{1,2048}$`

### Rules

Information about the retention rules.

Type: Array of [RuleSummary](#) objects

## Errors

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

### **InternalServerError**

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

### **ValidationException**

One or more of the parameters in the request is not valid.

#### **Reason**

The reason for the exception.

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 assigned to a retention rule.

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the retention rule.

Length Constraints: Minimum length of 0. Maximum length of 1011.

Pattern: `^arn:\S+:rbin:[a-z\-\0-9]{0,63}:[0-9]{12}:rule/[0-9a-zA-Z]{11}{0,1011}$`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "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.

### Tags

Information about the tags assigned to the retention rule.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

## Errors

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

### **InternalServerErrorException**

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource was not found.

#### **Reason**

The reason for the exception.

HTTP Status Code: 404

### **ValidationException**

One or more of the parameters in the request is not valid.

#### **Reason**

The reason for the exception.

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](#)
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# LockRule

Locks a Region-level retention rule. A locked retention rule can't be modified or deleted.

## Note

You can't lock tag-level retention rules, or Region-level retention rules that have exclusion tags.

## Request Syntax

```
PATCH /rules/identifier/lock HTTP/1.1  
Content-type: application/json
```

```
{  
  "LockConfiguration": {  
    "UnlockDelay": {  
      "UnlockDelayUnit": "string",  
      "UnlockDelayValue": number  
    }  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### identifier

The unique ID of the retention rule.

Pattern: `[0-9a-zA-Z]{11}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## LockConfiguration

Information about the retention rule lock configuration.

Type: [LockConfiguration](#) object

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "Description": "string",
  "ExcludeResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "Identifier": "string",
  "LockConfiguration": {
    "UnlockDelay": {
      "UnlockDelayUnit": "string",
      "UnlockDelayValue": number
    }
  },
  "LockState": "string",
  "ResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "ResourceType": "string",
  "RetentionPeriod": {
    "RetentionPeriodUnit": "string",
    "RetentionPeriodValue": number
  },
  "RuleArn": "string",
  "Status": "string"
}
```

```
}
```

## Response Elements

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

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

### Description

The retention rule description.

Type: String

Pattern: `^[\\S ]{0,255}$`

### ExcludeResourceTags

[Region-level retention rules only] Information about the exclusion tags used to identify resources that are to be excluded, or ignored, by the retention rule.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

### Identifier

The unique ID of the retention rule.

Type: String

Pattern: `[0-9a-zA-Z]{11}`

### LockConfiguration

Information about the retention rule lock configuration.

Type: [LockConfiguration](#) object

### LockState

[Region-level retention rules only] The lock state for the retention rule.

- `locked` - The retention rule is locked and can't be modified or deleted.

- `pending_unlock` - The retention rule has been unlocked but it is still within the unlock delay period. The retention rule can be modified or deleted only after the unlock delay period has expired.
- `unlocked` - The retention rule is unlocked and it can be modified or deleted by any user with the required permissions.
- `null` - The retention rule has never been locked. Once a retention rule has been locked, it can transition between the locked and unlocked states only; it can never transition back to `null`.

Type: String

Valid Values: `locked` | `pending_unlock` | `unlocked`

### ResourceTags

[Tag-level retention rules only] Information about the resource tags used to identify resources that are retained by the retention rule.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

### ResourceType

The resource type retained by the retention rule.

Type: String

Valid Values: `EBS_SNAPSHOT` | `EC2_IMAGE` | `EBS_VOLUME`

### RetentionPeriod

Information about the retention period for which the retention rule is to retain resources.

Type: [RetentionPeriod](#) object

### RuleArn

The Amazon Resource Name (ARN) of the retention rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1011.

Pattern: ^arn:\S+:rbin:[a-z\-\0-9]{0,63}:[0-9]{12}:rule/[0-9a-zA-Z]{11}{0,1011}\$

## Status

The state of the retention rule. Only retention rules that are in the available state retain resources.

Type: String

Valid Values: pending | available

## Errors

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

### **ConflictException**

The specified retention rule lock request can't be completed.

#### **Reason**

The reason for the exception.

HTTP Status Code: 409

### **InternalServerErrorException**

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

### **ResourceNotFoundException**

The specified resource was not found.

#### **Reason**

The reason for the exception.

HTTP Status Code: 404

### **ValidationException**

One or more of the parameters in the request is not valid.

## Reason

The reason for the exception.

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

Assigns tags to the specified retention rule.

## Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

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

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the retention rule.

Length Constraints: Minimum length of 0. Maximum length of 1011.

Pattern: `^arn:\S+:rbin:[a-z\-0-9]{0,63}:[0-9]{12}:rule/[0-9a-zA-Z]{11}{0,1011}$`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Tags

Information about the tags to assign to the retention rule.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 201
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response with an empty HTTP body.

## Errors

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

### InternalServerErrorException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

### ResourceNotFoundException

The specified resource was not found.

#### Reason

The reason for the exception.

HTTP Status Code: 404

### ServiceQuotaExceededException

The request would cause a service quota for the number of tags per resource to be exceeded.

#### Reason

The reason for the exception.

HTTP Status Code: 402

## ValidationException

One or more of the parameters in the request is not valid.

### Reason

The reason for the exception.

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](#)

# UnlockRule

Unlocks a retention rule. After a retention rule is unlocked, it can be modified or deleted only after the unlock delay period expires.

## Request Syntax

```
PATCH /rules/identifier/unlock HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### identifier

The unique ID of the retention rule.

Pattern: [0-9a-zA-Z]{11}

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "Description": "string",
  "ExcludeResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "Identifier": "string",
  "LockConfiguration": {
```

```
    "UnlockDelay": {
      "UnlockDelayUnit": "string",
      "UnlockDelayValue": number
    }
  },
  "LockEndTime": number,
  "LockState": "string",
  "ResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "ResourceType": "string",
  "RetentionPeriod": {
    "RetentionPeriodUnit": "string",
    "RetentionPeriodValue": number
  },
  "RuleArn": "string",
  "Status": "string"
}
```

## Response Elements

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

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

### Description

The retention rule description.

Type: String

Pattern: `^[\\S ]{0,255}$`

### ExcludeResourceTags

[Region-level retention rules only] Information about the exclusion tags used to identify resources that are to be excluded, or ignored, by the retention rule.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

## Identifier

The unique ID of the retention rule.

Type: String

Pattern: `[0-9a-zA-Z]{11}`

## LockConfiguration

Information about the retention rule lock configuration.

Type: [LockConfiguration](#) object

## LockEndTime

The date and time at which the unlock delay is set to expire. Only returned for retention rules that have been unlocked and that are still within the unlock delay period.

Type: Timestamp

## LockState

[Region-level retention rules only] The lock state for the retention rule.

- `locked` - The retention rule is locked and can't be modified or deleted.
- `pending_unlock` - The retention rule has been unlocked but it is still within the unlock delay period. The retention rule can be modified or deleted only after the unlock delay period has expired.
- `unlocked` - The retention rule is unlocked and it can be modified or deleted by any user with the required permissions.
- `null` - The retention rule has never been locked. Once a retention rule has been locked, it can transition between the `locked` and `unlocked` states only; it can never transition back to `null`.

Type: String

Valid Values: `locked` | `pending_unlock` | `unlocked`

## ResourceTags

[Tag-level retention rules only] Information about the resource tags used to identify resources that are retained by the retention rule.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

### [ResourceType](#)

The resource type retained by the retention rule.

Type: String

Valid Values: EBS\_SNAPSHOT | EC2\_IMAGE | EBS\_VOLUME

### [RetentionPeriod](#)

Information about the retention period for which the retention rule is to retain resources.

Type: [RetentionPeriod](#) object

### [RuleArn](#)

The Amazon Resource Name (ARN) of the retention rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1011.

Pattern: `^arn:\S+:rbin:[a-z\-\0-9]{0,63}:[0-9]{12}:rule/[0-9a-zA-Z]{11}{0,1011}$`

### [Status](#)

The state of the retention rule. Only retention rules that are in the available state retain resources.

Type: String

Valid Values: pending | available

## Errors

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

### **ConflictException**

The specified retention rule lock request can't be completed.

**Reason**

The reason for the exception.

HTTP Status Code: 409

**InternalServerErrorException**

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource was not found.

**Reason**

The reason for the exception.

HTTP Status Code: 404

**ValidationException**

One or more of the parameters in the request is not valid.

**Reason**

The reason for the exception.

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

Unassigns a tag from a retention rule.

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=TagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The Amazon Resource Name (ARN) of the retention rule.

Length Constraints: Minimum length of 0. Maximum length of 1011.

Pattern: `^arn:\S+:rbin:[a-z\-\0-9]{0,63}:[0-9]{12}:rule/[0-9a-zA-Z]{11}{0,1011}$`

Required: Yes

### TagKeys

The tag keys of the tags to unassign. All tags that have the specified tag key are unassigned.

Array Members: Minimum number of 0 items. Maximum number of 200 items.

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

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

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

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

### InternalServerErrorException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

### ResourceNotFoundException

The specified resource was not found.

#### Reason

The reason for the exception.

HTTP Status Code: 404

### ValidationException

One or more of the parameters in the request is not valid.

#### Reason

The reason for the exception.

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](#)

# UpdateRule

Updates an existing Recycle Bin retention rule. You can update a retention rule's description, resource tags, and retention period at any time after creation. You can't update a retention rule's resource type after creation. For more information, see [Update Recycle Bin retention rules](#) in the *Amazon Elastic Compute Cloud User Guide*.

## Request Syntax

```
PATCH /rules/identifier HTTP/1.1
Content-type: application/json

{
  "Description": "string",
  "ExcludeResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "ResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "ResourceType": "string",
  "RetentionPeriod": {
    "RetentionPeriodUnit": "string",
    "RetentionPeriodValue": number
  }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### identifier

The unique ID of the retention rule.

Pattern: `[0-9a-zA-Z]{11}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### Description

The retention rule description.

Type: String

Pattern: `^[\\S ]{0,255}$`

Required: No

### ExcludeResourceTags

[Region-level retention rules only] Specifies the exclusion tags to use to identify resources that are to be excluded, or ignored, by a Region-level retention rule. Resources that have any of these tags are not retained by the retention rule upon deletion.

You can't specify exclusion tags for tag-level retention rules.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

Required: No

### ResourceTags

[Tag-level retention rules only] Specifies the resource tags to use to identify resources that are to be retained by a tag-level retention rule. For tag-level retention rules, only deleted resources, of the specified resource type, that have one or more of the specified tag key and value pairs are retained. If a resource is deleted, but it does not have any of the specified tag key and value pairs, it is immediately deleted without being retained by the retention rule.

You can add the same tag key and value pair to a maximum of five retention rules.

To create a Region-level retention rule, omit this parameter. A Region-level retention rule does not have any resource tags specified. It retains all deleted resources of the specified resource type in the Region in which the rule is created, even if the resources are not tagged.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Required: No

## [ResourceType](#)

### Note

This parameter is currently not supported. You can't update a retention rule's resource type after creation.

Type: String

Valid Values: EBS\_SNAPSHOT | EC2\_IMAGE | EBS\_VOLUME

Required: No

## [RetentionPeriod](#)

Information about the retention period for which the retention rule is to retain resources.

Type: [RetentionPeriod](#) object

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
  "Description": "string",
  "ExcludeResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "Identifier": "string",
  "LockEndTime": number,
```

```
"LockState": "string",
"ResourceTags": [
  {
    "ResourceTagKey": "string",
    "ResourceTagValue": "string"
  }
],
"ResourceType": "string",
"RetentionPeriod": {
  "RetentionPeriodUnit": "string",
  "RetentionPeriodValue": number
},
"RuleArn": "string",
"Status": "string"
}
```

## Response Elements

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

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

### Description

The retention rule description.

Type: String

Pattern: ^[\S ]{0,255}\$

### ExcludeResourceTags

[Region-level retention rules only] Information about the exclusion tags used to identify resources that are to be excluded, or ignored, by the retention rule.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 5 items.

### Identifier

The unique ID of the retention rule.

Type: String

Pattern: [0-9a-zA-Z]{11}

### LockEndTime

The date and time at which the unlock delay is set to expire. Only returned for retention rules that have been unlocked and that are still within the unlock delay period.

Type: Timestamp

### LockState

[Region-level retention rules only] The lock state for the retention rule.

- `locked` - The retention rule is locked and can't be modified or deleted.
- `pending_unlock` - The retention rule has been unlocked but it is still within the unlock delay period. The retention rule can be modified or deleted only after the unlock delay period has expired.
- `unlocked` - The retention rule is unlocked and it can be modified or deleted by any user with the required permissions.
- `null` - The retention rule has never been locked. Once a retention rule has been locked, it can transition between the `locked` and `unlocked` states only; it can never transition back to `null`.

Type: String

Valid Values: `locked` | `pending_unlock` | `unlocked`

### ResourceTags

[Tag-level retention rules only] Information about the resource tags used to identify resources that are retained by the retention rule.

Type: Array of [ResourceTag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

### ResourceType

The resource type retained by the retention rule.

Type: String

Valid Values: `EBS_SNAPSHOT` | `EC2_IMAGE` | `EBS_VOLUME`

## RetentionPeriod

Information about the retention period for which the retention rule is to retain resources.

Type: [RetentionPeriod](#) object

## RuleArn

The Amazon Resource Name (ARN) of the retention rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1011.

Pattern: `^arn:\S+:rbin:[a-z\-\0-9]{0,63}:[0-9]{12}:rule/[0-9a-zA-Z]{11}{0,1011}$`

## Status

The state of the retention rule. Only retention rules that are in the available state retain resources.

Type: String

Valid Values: pending | available

## Errors

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

### **ConflictException**

The specified retention rule lock request can't be completed.

#### **Reason**

The reason for the exception.

HTTP Status Code: 409

### **InternalServerErrorException**

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

## ResourceNotFoundException

The specified resource was not found.

### Reason

The reason for the exception.

HTTP Status Code: 404

## ServiceQuotaExceededException

The request would cause a service quota for the number of tags per resource to be exceeded.

### Reason

The reason for the exception.

HTTP Status Code: 402

## ValidationException

One or more of the parameters in the request is not valid.

### Reason

The reason for the exception.

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 Amazon Recycle Bin 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:

- [LockConfiguration](#)
- [ResourceTag](#)
- [RetentionPeriod](#)
- [RuleSummary](#)
- [Tag](#)
- [UnlockDelay](#)

# LockConfiguration

Information about a retention rule lock configuration.

## Contents

### UnlockDelay

Information about the retention rule unlock delay.

Type: [UnlockDelay](#) object

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](#)

# ResourceTag

[Tag-level retention rules only] Information about the resource tags used to identify resources that are retained by the retention rule.

## Contents

### ResourceTagKey

The tag key.

Type: String

Pattern: `^[\\S\\s]{1,128}$`

Required: Yes

### ResourceTagValue

The tag value.

Type: String

Pattern: `^[\\S\\s]{0,256}$`

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](#)

# RetentionPeriod

Information about the retention period for which the retention rule is to retain resources.

## Contents

### RetentionPeriodUnit

The unit of time in which the retention period is measured. Currently, only DAYS is supported.

Type: String

Valid Values: DAYS

Required: Yes

### RetentionPeriodValue

The period value for which the retention rule is to retain resources, measured in days. The supported retention periods are:

- EBS volumes: 1 - 7 days
- EBS snapshots and EBS-backed AMIs: 1 - 365 days

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 365.

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](#)

# RuleSummary

Information about a Recycle Bin retention rule.

## Contents

### Description

The retention rule description.

Type: String

Pattern: `^[\\S ]{0,255}$`

Required: No

### Identifier

The unique ID of the retention rule.

Type: String

Pattern: `[0-9a-zA-Z]{11}`

Required: No

### LockState

[Region-level retention rules only] The lock state for the retention rule.

- `locked` - The retention rule is locked and can't be modified or deleted.
- `pending_unlock` - The retention rule has been unlocked but it is still within the unlock delay period. The retention rule can be modified or deleted only after the unlock delay period has expired.
- `unlocked` - The retention rule is unlocked and it can be modified or deleted by any user with the required permissions.
- `null` - The retention rule has never been locked. Once a retention rule has been locked, it can transition between the `locked` and `unlocked` states only; it can never transition back to `null`.

Type: String

Valid Values: `locked` | `pending_unlock` | `unlocked`

Required: No

## RetentionPeriod

Information about the retention period for which the retention rule is to retain resources.

Type: [RetentionPeriod](#) object

Required: No

## RuleArn

The Amazon Resource Name (ARN) of the retention rule.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 1011.

Pattern: `^arn:\S+:rbin:[a-z\-\0-9]{0,63}:[0-9]{12}:rule/[0-9a-zA-Z]{11}{0,1011}$`

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

Information about the tags to assign to the retention rule.

## Contents

### Key

The tag key.

Type: String

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

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

Required: Yes

### Value

The tag value.

Type: String

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

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

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](#)

# UnlockDelay

Information about the retention rule unlock delay. The unlock delay is the period after which a retention rule can be modified or edited after it has been unlocked by a user with the required permissions. The retention rule can't be modified or deleted during the unlock delay.

## Contents

### UnlockDelayUnit

The unit of time in which to measure the unlock delay. Currently, the unlock delay can be measured only in days.

Type: String

Valid Values: DAYS

Required: Yes

### UnlockDelayValue

The unlock delay period, measured in the unit specified for **UnlockDelayUnit**.

Type: Integer

Valid Range: Minimum value of 7. Maximum value of 30.

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