
Recycle Bin

Welcome

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亚马逊云科技



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 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*.

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Actions

The following actions are supported:

- [CreateRule](#) (p. 3)
- [DeleteRule](#) (p. 7)
- [GetRule](#) (p. 9)
- [ListRules](#) (p. 12)
- [ListTagsForResource](#) (p. 15)
- [TagResource](#) (p. 17)
- [UntagResource](#) (p. 19)
- [UpdateRule](#) (p. 21)

CreateRule

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

Request Syntax

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

{
  "Description": "string",
  "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 (p. 3)

The retention rule description.

Type: String

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

Required: No

ResourceTags (p. 3)

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 \(p. 26\)](#) objects

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

Required: No

ResourceType (p. 3)

The resource type to be retained by the retention rule. Currently, only Amazon EBS snapshots and EBS-backed AMIs are supported. To retain snapshots, specify `EBS_SNAPSHOT`. To retain EBS-backed AMIs, specify `EC2_IMAGE`.

Type: String

Valid Values: `EBS_SNAPSHOT` | `EC2_IMAGE`

Required: Yes

RetentionPeriod (p. 3)

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

Type: [RetentionPeriod \(p. 27\)](#) object

Required: Yes

Tags (p. 3)

Information about the tags to assign to the retention rule.

Type: Array of [Tag \(p. 29\)](#) 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",
  "Identifier": "string",
  "ResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "ResourceType": "string",
  "RetentionPeriod": {
    "RetentionPeriodUnit": "string",
    "RetentionPeriodValue": number
  },
  "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 (p. 4)

The retention rule description.

Type: String

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

Identifier (p. 4)

The unique ID of the retention rule.

Type: String

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

ResourceTags (p. 4)

Information about the resource tags used to identify resources that are retained by the retention rule.

Type: Array of [ResourceTag \(p. 26\)](#) objects

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

ResourceType (p. 4)

The resource type retained by the retention rule.

Type: String

Valid Values: `EBS_SNAPSHOT | EC2_IMAGE`

RetentionPeriod (p. 4)

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

Type: [RetentionPeriod \(p. 27\)](#) object

Status (p. 4)

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

Type: String

Valid Values: `pending | available`

Tags (p. 4)

Information about the tags assigned to the retention rule.

Type: Array of [Tag \(p. 29\)](#) 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 Errors \(p. 32\)](#).

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.

HTTP Status Code: 402

ValidationException

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

HTTP Status Code: 400

See Also

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

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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 (p. 7)

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 Errors](#) (p. 32).

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.

HTTP Status Code: 404

ValidationException

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

HTTP Status Code: 400

See Also

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

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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 (p. 9)

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",
  "Identifier": "string",
  "ResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "ResourceType": "string",
  "RetentionPeriod": {
    "RetentionPeriodUnit": "string",
    "RetentionPeriodValue": number
  },
  "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 (p. 9)

The retention rule description.

Type: String

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

Identifier (p. 9)

The unique ID of the retention rule.

Type: String

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

ResourceTags (p. 9)

Information about the resource tags used to identify resources that are retained by the retention rule.

Type: Array of [ResourceTag \(p. 26\)](#) objects

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

ResourceType (p. 9)

The resource type retained by the retention rule.

Type: String

Valid Values: EBS_SNAPSHOT | EC2_IMAGE

RetentionPeriod (p. 9)

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

Type: [RetentionPeriod \(p. 27\)](#) object

Status (p. 9)

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 Errors \(p. 32\)](#).

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.

HTTP Status Code: 404

ValidationException

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

HTTP Status Code: 400

See Also

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

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

{
  "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.

MaxResults (p. 12)

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 (p. 12)

The token for the next page of results.

Type: String

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

Required: No

ResourceTags (p. 12)

Information about the resource tags used to identify resources that are retained by the retention rule.

Type: Array of [ResourceTag \(p. 26\)](#) objects

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

Required: No

ResourceType (p. 12)

The resource type retained by the retention rule. Only retention rules that retain the specified resource type are listed. Currently, only Amazon EBS snapshots and EBS-backed AMIs are supported. To list retention rules that retain snapshots, specify EBS_SNAPSHOT. To list retention rules that retain EBS-backed AMIs, specify EC2_IMAGE.

Type: String

Valid Values: EBS_SNAPSHOT | EC2_IMAGE

Required: Yes

Response Syntax

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

{
  "NextToken": "string",
  "Rules": [
    {
      "Description": "string",
      "Identifier": "string",
      "RetentionPeriod": {
        "RetentionPeriodUnit": "string",
        "RetentionPeriodValue": number
      }
    }
  ]
}
```

Response Elements

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

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

NextToken (p. 13)

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 (p. 13)

Information about the retention rules.

Type: Array of [RuleSummary \(p. 28\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 32\)](#).

InternalServerErrorException

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.

HTTP Status Code: 400

See Also

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

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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 \(p. 15\)](#)

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

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

Pattern: `^arn:aws(-[a-z]{1,3}){0,2}: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 \(p. 15\)](#)

Information about the tags assigned to the retention rule.

Type: Array of [Tag \(p. 29\)](#) 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 Errors \(p. 32\)](#).

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.

HTTP Status Code: 404

ValidationException

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

HTTP Status Code: 400

See Also

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

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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 (p. 17)

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

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

Pattern: `^arn:aws(-[a-z]{1,3}){0,2}: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 (p. 17)

Information about the tags to assign to the retention rule.

Type: Array of [Tag](#) (p. 29) 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 Errors \(p. 32\)](#).

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.

HTTP Status Code: 404

ServiceQuotaExceededException

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

HTTP Status Code: 402

ValidationException

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

HTTP Status Code: 400

See Also

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

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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 \(p. 19\)](#)

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

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

Pattern: `^arn:aws(-[a-z]{1,3}){0,2}:rbin:[a-z\-\0-9]{0,63}:[0-9]{12}:rule/[0-9a-zA-Z]{11}{0,1011}$`

Required: Yes

[TagKeys \(p. 19\)](#)

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 Errors \(p. 32\)](#).

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.

HTTP Status Code: 404

ValidationException

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

HTTP Status Code: 400

See Also

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

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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",
  "ResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "ResourceType": "string",
  "RetentionPeriod": {
    "RetentionPeriodUnit": "string",
    "RetentionPeriodValue": number
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

identifier (p. 21)

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 (p. 21)

The retention rule description.

Type: String

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

Required: No

ResourceTags (p. 21)

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 \(p. 26\)](#) objects

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

Required: No

[ResourceType \(p. 21\)](#)

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

Required: No

[RetentionPeriod \(p. 21\)](#)

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

Type: [RetentionPeriod \(p. 27\)](#) object

Required: No

Response Syntax

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

{
  "Description": "string",
  "Identifier": "string",
  "ResourceTags": [
    {
      "ResourceTagKey": "string",
      "ResourceTagValue": "string"
    }
  ],
  "ResourceType": "string",
  "RetentionPeriod": {
    "RetentionPeriodUnit": "string",
    "RetentionPeriodValue": number
  },
  "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 (p. 22)

The retention rule description.

Type: String

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

Identifier (p. 22)

The unique ID of the retention rule.

Type: String

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

ResourceTags (p. 22)

Information about the resource tags used to identify resources that are retained by the retention rule.

Type: Array of [ResourceTag \(p. 26\)](#) objects

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

ResourceType (p. 22)

The resource type retained by the retention rule.

Type: String

Valid Values: EBS_SNAPSHOT | EC2_IMAGE

RetentionPeriod (p. 22)

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

Type: [RetentionPeriod \(p. 27\)](#) object

Status (p. 22)

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 Errors \(p. 32\)](#).

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.

HTTP Status Code: 404

ValidationException

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

HTTP Status Code: 400

See Also

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

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go](#)
- [Amazon SDK for Java V2](#)
- [Amazon SDK for JavaScript](#)
- [Amazon SDK for PHP V3](#)
- [Amazon SDK for Python](#)
- [Amazon 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:

- [ResourceTag](#) (p. 26)
- [RetentionPeriod](#) (p. 27)
- [RuleSummary](#) (p. 28)
- [Tag](#) (p. 29)

ResourceTag

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 Amazon SDKs, see the following:

- [Amazon SDK for C++](#)
- [Amazon SDK for Go](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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. The period is measured using the unit specified for **RetentionPeriodUnit**.

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 Amazon SDKs, see the following:

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

RetentionPeriod

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

Type: [RetentionPeriod \(p. 27\)](#) object

Required: No

See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Go](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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}_:/=+\-@]*)$`

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}_:/=+\-@]*)$`

Required: Yes

See Also

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

- [Amazon SDK for C++](#)
- [Amazon SDK for Go](#)
- [Amazon SDK for Java V2](#)
- [Amazon 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 [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'THHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is

not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

This section lists the errors common to the API actions of all Amazon services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to Amazon standards.

HTTP Status Code: 400

InternalFailure

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

InvalidAction

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

InvalidClientTokenId

The X.509 certificate or Amazon access key ID provided does not exist in our records.

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The Amazon query string is malformed or does not adhere to Amazon standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) Amazon access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

The Amazon access key ID needs a subscription for the service.

HTTP Status Code: 403

RequestExpired

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

ServiceUnavailable

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

The input fails to satisfy the constraints specified by an Amazon service.

HTTP Status Code: 400