aws

Welcome

Recycle Bin

API Version 2021-06-15

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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 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 September 3, 2025.

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 or 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 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

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`

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: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}$`

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 Errors.

InternalServerException

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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- 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 Errors.

ConflictException

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

HTTP Status Code: 409

InternalServerException

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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- 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`

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: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}$`

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 Errors.

InternalServerException

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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- 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 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",
         "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 Errors.

InternalServerException

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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- 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: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

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 Errors.

InternalServerException

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 AWS SDKs, see the following:

- AWS Command Line Interface

- AWS SDK for .NET
- 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

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`

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: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}$`

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 Errors.

ConflictException

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

HTTP Status Code: 409

InternalServerException

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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- 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: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

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 Errors.

InternalServerException

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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- 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`

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: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}$`

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 Errors.

ConflictException

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

HTTP Status Code: 409

InternalServerException

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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- 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: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

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.

InternalServerException

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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- 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 or 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`

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`

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: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}$`

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 Errors.

ConflictException

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

HTTP Status Code: 409

InternalServerException

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 AWS SDKs, see the following:

- AWS Command Line Interface
- AWS SDK for .NET
- 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. 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 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: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: 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}_.:/=+\-@]*)$`

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 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 measure 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*.

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 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 Errors

This section lists the errors common to the API actions of all AWS 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: 403

ExpiredTokenException

The security token included in the request is expired

HTTP Status Code: 403

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 403

InternalFailure

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

HTTP Status Code: 500

MalformedHttpRequestException

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 401

OptInRequired

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

HTTP Status Code: 403

RequestAbortedException

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

RequestEntityTooLargeException

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

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

RequestTimeoutException

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

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

UnrecognizedClientException

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

HTTP Status Code: 403

UnknownOperationException

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

HTTP Status Code: 404

ValidationError

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

HTTP Status Code: 400