AWS Resource Groups
Welcome
API Version 2017-11-27
AWS Resource Groups: Welcome
Copyright © 2017 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

Amazon's trademarks and trade dress may not be used in connection with any product or service that is not Amazon’s, in any manner that is likely to cause confusion among customers, or in any manner that disparages or discredits Amazon. All other trademarks not owned by Amazon are the property of their respective owners, who may or may not be affiliated with, connected to, or sponsored by Amazon.
# AWS Resource Groups Welcome

## Table of Contents

<table>
<thead>
<tr>
<th>Action</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome</td>
<td>1</td>
</tr>
<tr>
<td>Actions</td>
<td>2</td>
</tr>
<tr>
<td>CreateGroup</td>
<td>3</td>
</tr>
<tr>
<td>Request Syntax</td>
<td>3</td>
</tr>
<tr>
<td>URI Request Parameters</td>
<td>3</td>
</tr>
<tr>
<td>Request Body</td>
<td>3</td>
</tr>
<tr>
<td>Response Syntax</td>
<td>4</td>
</tr>
<tr>
<td>Response Elements</td>
<td>4</td>
</tr>
<tr>
<td>Errors</td>
<td>5</td>
</tr>
<tr>
<td>See Also</td>
<td>5</td>
</tr>
<tr>
<td>DeleteGroup</td>
<td>7</td>
</tr>
<tr>
<td>Request Syntax</td>
<td>7</td>
</tr>
<tr>
<td>URI Request Parameters</td>
<td>7</td>
</tr>
<tr>
<td>Request Body</td>
<td>7</td>
</tr>
<tr>
<td>Response Syntax</td>
<td>7</td>
</tr>
<tr>
<td>Response Elements</td>
<td>7</td>
</tr>
<tr>
<td>Errors</td>
<td>7</td>
</tr>
<tr>
<td>See Also</td>
<td>8</td>
</tr>
<tr>
<td>GetGroupQuery</td>
<td>9</td>
</tr>
<tr>
<td>Request Syntax</td>
<td>9</td>
</tr>
<tr>
<td>URI Request Parameters</td>
<td>9</td>
</tr>
<tr>
<td>Request Body</td>
<td>9</td>
</tr>
<tr>
<td>Response Syntax</td>
<td>9</td>
</tr>
<tr>
<td>Response Elements</td>
<td>9</td>
</tr>
<tr>
<td>Errors</td>
<td>9</td>
</tr>
<tr>
<td>See Also</td>
<td>10</td>
</tr>
<tr>
<td>GetTags</td>
<td>11</td>
</tr>
<tr>
<td>Request Syntax</td>
<td>11</td>
</tr>
<tr>
<td>URI Request Parameters</td>
<td>11</td>
</tr>
<tr>
<td>Request Body</td>
<td>11</td>
</tr>
<tr>
<td>Response Syntax</td>
<td>11</td>
</tr>
<tr>
<td>Response Elements</td>
<td>11</td>
</tr>
<tr>
<td>Errors</td>
<td>11</td>
</tr>
<tr>
<td>See Also</td>
<td>12</td>
</tr>
<tr>
<td>ListGroupResources</td>
<td>16</td>
</tr>
<tr>
<td>Request Syntax</td>
<td>16</td>
</tr>
<tr>
<td>URI Request Parameters</td>
<td>16</td>
</tr>
<tr>
<td>Request Body</td>
<td>16</td>
</tr>
<tr>
<td>Response Syntax</td>
<td>16</td>
</tr>
<tr>
<td>Response Elements</td>
<td>16</td>
</tr>
<tr>
<td>Errors</td>
<td>17</td>
</tr>
<tr>
<td>See Also</td>
<td>17</td>
</tr>
<tr>
<td>ListGroups</td>
<td>19</td>
</tr>
<tr>
<td>Request Syntax</td>
<td>19</td>
</tr>
<tr>
<td>URI Request Parameters</td>
<td>19</td>
</tr>
<tr>
<td>Request Body</td>
<td>19</td>
</tr>
</tbody>
</table>

**API Version 2017-11-27**
Welcome

AWS Resource Groups lets you organize AWS resources such as Amazon EC2 instances, Amazon Relational Database Service databases, and Amazon S3 buckets into groups using criteria that you define as tags. A resource group is a collection of resources that match the resource types specified in a query, and share one or more tags or portions of tags. You can create a group of resources based on their roles in your cloud infrastructure, lifecycle stages, regions, application layers, or virtually any criteria. Resource groups enable you to automate management tasks, such as those in AWS Systems Manager Automation documents, on tag-related resources in AWS Systems Manager. Groups of tagged resources also let you quickly view a custom console in AWS Systems Manager that shows AWS Config compliance and other monitoring data about member resources.

To create a resource group, build a resource query, and specify tags that identify the criteria that members of the group have in common. Tags are key-value pairs.

For more information about Resource Groups, see the AWS Resource Groups User Guide.

AWS Resource Groups uses a REST-compliant API that you can use to perform the following types of operations.

- Create, Read, Update, and Delete (CRUD) operations on resource groups and resource query entities
- Applying, editing, and removing tags from resource groups
- Resolving resource group member ARNs so they can be returned as search results
- Getting data about resources that are members of a group
- Searching AWS resources based on a resource query

This document was last published on December 21, 2017.
Actions

The following actions are supported:

- CreateGroup (p. 3)
- DeleteGroup (p. 7)
- GetGroup (p. 9)
- GetGroupQuery (p. 11)
- GetTags (p. 13)
- ListGroupResources (p. 16)
- ListGroups (p. 19)
- SearchResources (p. 21)
- Tag (p. 24)
- Untag (p. 27)
- UpdateGroup (p. 30)
- UpdateGroupQuery (p. 33)
CreateGroup

Creates a group with a specified name, description, and resource query.

Request Syntax

POST /groups HTTP/1.1
Content-type: application/json

{
   "Description": "string",
   "Name": "string",
   "ResourceQuery": {
      "Query": "string",
      "Type": "string"
   },
   "Tags": {
      "string" : "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 description of the resource group. Descriptions can have a maximum of 511 characters, including letters, numbers, hyphens, underscores, punctuation, and spaces.

Type: String

Length Constraints: Maximum length of 512.

Pattern: \[a-zA-Z0-9_.-\]+

Required: No

Name (p. 3)

The name of the group, which is the identifier of the group in other operations. A resource group name cannot be updated after it is created. A resource group name can have a maximum of 128 characters, including letters, numbers, hyphens, dots, and underscores. The name cannot start with AWS or aws; these are reserved. A resource group name must be unique within your account.

Type: String


Pattern: [a-zA-Z0-9_.-]+

Required: Yes

ResourceQuery (p. 3)

The resource query that determines which AWS resources are members of this group.
Type: ResourceQuery (p. 40) object

Required: Yes

Tags (p. 3)

The tags to add to the group. A tag is a string-to-string map of key-value pairs. Tag keys can have a maximum character length of 128 characters, and tag values can have a maximum length of 256 characters.

Type: String to string map

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

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

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

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

Required: No

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
    "Group": {
        "Description": "string",
        "GroupArn": "string",
        "Name": "string"
    },
    "ResourceQuery": {
        "Query": "string",
        "Type": "string"
    },
    "Tags": {
        "string" : "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.

Group (p. 4)

A full description of the resource group after it is created.

Type: Group (p. 37) object

ResourceQuery (p. 4)

The resource query associated with the group.

Type: ResourceQuery (p. 40) object
Tags (p. 4)

The tags associated with the group.

Type: String to string map

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

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

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

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).

BadRequestException

The request does not comply with validation rules that are defined for the request parameters.

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method which is not allowed for the specified resource.

HTTP Status Code: 405

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V2
DeleteGroup

Deletes a specified resource group. Deleting a resource group does not delete resources that are members of the group; it only deletes the group structure.

Request Syntax

```
DELETE /groups/GroupName HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

**GroupName (p. 7)**

The name of the resource group to delete.


Pattern: [a-zA-Z0-9_.-]+

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Group": {
      "Description": "string",
      "GroupArn": "string",
      "Name": "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.

**Group (p. 7)**

A full description of the deleted resource group.

Type: Group (p. 37) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).
**BadRequestException**

The request does not comply with validation rules that are defined for the request parameters.

HTTP Status Code: 400

**ForbiddenException**

The caller is not authorized to make the request.

HTTP Status Code: 403

**InternalServerErrorException**

An internal error occurred while processing the request.

HTTP Status Code: 500

**MethodNotAllowedException**

The request uses an HTTP method which is not allowed for the specified resource.

HTTP Status Code: 405

**NotFoundException**

One or more resources specified in the request do not exist.

HTTP Status Code: 404

**TooManyRequestsException**

The caller has exceeded throttling limits.

HTTP Status Code: 429

---

**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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
GetGroup

Returns information about a specified resource group.

Request Syntax

```
GET /groups/GroupName HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

**GroupName (p. 9)**

The name of the resource group.


Pattern: [a-zA-Z0-9._-]+

Request Body

The request does not have a request body.

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
{
  "Group": {
    "Description": "string",
    "GroupArn": "string",
    "Name": "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.

**Group (p. 9)**

A full description of the resource group.

Type: Group (p. 37) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).
**BadRequestException**

The request does not comply with validation rules that are defined for the request parameters.

HTTP Status Code: 400

**ForbiddenException**

The caller is not authorized to make the request.

HTTP Status Code: 403

**InternalServerErrorException**

An internal error occurred while processing the request.

HTTP Status Code: 500

**MethodNotAllowedException**

The request uses an HTTP method which is not allowed for the specified resource.

HTTP Status Code: 405

**NotFoundException**

One or more resources specified in the request do not exist.

HTTP Status Code: 404

**TooManyRequestsException**

The caller has exceeded throttling limits.

HTTP Status Code: 429

---

**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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
GetGroupQuery

Returns the resource query associated with the specified resource group.

Request Syntax

```
GET /groups/GroupName/query HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

GroupName (p. 11)

The name of the resource group.


Pattern: [a-zA-Z0-9_-\.]+

Request Body

The request does not have a request body.

Response Syntax

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

{
  "GroupQuery": {
    "GroupName": "string",
    "ResourceQuery": {
      "Query": "string",
      "Type": "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.

GroupQuery (p. 11)

The resource query associated with the specified group.

Type: GroupQuery (p. 38) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).
BadRequestException

The request does not comply with validation rules that are defined for the request parameters.

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method which is not allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more resources specified in the request do not exist.

HTTP Status Code: 404

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
GetTags

Returns a list of tags that are associated with a resource, specified by an ARN.

Request Syntax

```
GET /resources/Arn/tags HTTP/1.1
```

URI Request Parameters

The request requires the following URI parameters.

**Arn (p. 13)**

The ARN of the resource for which you want a list of tags. The resource must exist within the account you are using.

Pattern: `arn:aws:resource-groups:[a-z]{2}[-a-z]+[-\d{1}:[0-9]{12}:group/[a-zA-Z0-9\-_\.]{1,128}`

Request Body

The request does not have a request body.

Response Syntax

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

{
   "Arn": "string",
   "Tags": {
      "string" : "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.

**Arn (p. 13)**

The ARN of the tagged resource.

Type: String

Pattern: `arn:aws:resource-groups:[a-z]{2}[-a-z]+[-\d{1}:[0-9]{12}:group/[a-zA-Z0-9\-_\.]{1,128}`

**Tags (p. 13)**

The tags associated with the specified resource.
Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).

**BadRequestException**

The request does not comply with validation rules that are defined for the request parameters.

HTTP Status Code: 400

**ForbiddenException**

The caller is not authorized to make the request.

HTTP Status Code: 403

**InternalServerException**

An internal error occurred while processing the request.

HTTP Status Code: 500

**MethodNotAllowedException**

The request uses an HTTP method which is not allowed for the specified resource.

HTTP Status Code: 405

**NotFoundException**

One or more resources specified in the request do not exist.

HTTP Status Code: 404

**TooManyRequestsException**

The caller has exceeded throttling limits.

HTTP Status Code: 429

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
- AWS SDK for Java
- AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V2
ListGroupResources

Returns a list of ARNs of resources that are members of a specified resource group.

Request Syntax

GET /groups/GroupName/resource-identifiers?maxResults=MaxResults&nextToken=NextToken
HTTP/1.1

URI Request Parameters

The request requires the following URI parameters.

GroupName (p. 16)
The name of the resource group.
Pattern: [a-zA-Z0-9_\.-\-]+

MaxResults (p. 16)
The maximum number of group member ARNs that are returned in a single call by ListGroupResources, in paginated output. By default, this number is 50.

NextToken (p. 16)
The NextToken value that is returned in a paginated ListGroupResources request. To get the next page of results, run the call again, add the NextToken parameter, and specify the NextToken value.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
   "NextToken": "string",
   "ResourceIdentifiers": [
      {
         "ResourceArn": "string",
         "ResourceType": "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 (p. 16)**

The NextToken value to include in a subsequent `ListGroupResources` request, to get more results.

Type: String

**ResourceIdentifiers (p. 16)**

The ARNs and resource types of resources that are members of the group that you specified.

Type: Array of `ResourceIdentifier (p. 39)` objects

### Errors

For information about the errors that are common to all actions, see [Common Errors (p. 43)].

**BadRequestException**

The request does not comply with validation rules that are defined for the request parameters.

HTTP Status Code: 400

**ForbiddenException**

The caller is not authorized to make the request.

HTTP Status Code: 403

**InternalServerErrorException**

An internal error occurred while processing the request.

HTTP Status Code: 500

**MethodNotAllowedException**

The request uses an HTTP method which is not allowed for the specified resource.

HTTP Status Code: 405

**NotFoundException**

One or more resources specified in the request do not exist.

HTTP Status Code: 404

**TooManyRequestsException**

The caller has exceeded throttling limits.

HTTP Status Code: 429

**UnauthorizedException**

The request has not been applied because it lacks valid authentication credentials for the target resource.

HTTP Status Code: 401

### See Also

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

API Version 2017-11-27
• AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V2
ListGroups

Returns a list of existing resource groups in your account.

Request Syntax

GET /groups?maxResults=MaxResults&nextToken=NextToken HTTP/1.1

URI Request Parameters

The request requires the following URI parameters.

MaxResults (p. 19)

The maximum number of resource group results that are returned by ListGroups in paginated output. By default, this number is 50.


NextToken (p. 19)

The NextToken value that is returned in a paginated ListGroups request. To get the next page of results, run the call again, add the NextToken parameter, and specify the NextToken value.

Request Body

The request does not have a request body.

Response Syntax

HTTP/1.1 200
Content-type: application/json

{
  "Groups": [ 
      { 
        "Description": "string",
        "GroupArn": "string",
        "Name": "string"
      },
  ],
  "NextToken": "string"
}

Response Elements

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

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

Groups (p. 19)

A list of resource groups.

Type: Array of Group (p. 37) objects
NextToken (p. 19)

The NextToken value to include in a subsequent ListGroups request, to get more results.

Type: String

Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).

BadRequestException

The request does not comply with validation rules that are defined for the request parameters.

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method which is not allowed for the specified resource.

HTTP Status Code: 405

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
SearchResources

Returns a list of AWS resource identifiers that matches a specified query. The query uses the same format as a resource query in a CreateGroup or UpdateGroupQuery operation.

Request Syntax

```
POST /resources/search HTTP/1.1
Content-type: application/json

{
  "MaxResults": number,
  "NextToken": "string",
  "ResourceQuery": {
    "Query": "string",
    "Type": "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. 21)**

The maximum number of group member ARNs returned by SearchResources in paginated output. By default, this number is 50.

- **Type:** Integer
- **Valid Range:** Minimum value of 1. Maximum value of 50.
- **Required:** No

**NextToken (p. 21)**

The NextToken value that is returned in a paginated SearchResources request. To get the next page of results, run the call again, add the NextToken parameter, and specify the NextToken value.

- **Type:** String
- **Required:** No

**ResourceQuery (p. 21)**

The search query, using the same formats that are supported for resource group definition.

- **Type:** ResourceQuery (p. 40) object
- **Required:** Yes

Response Syntax

```
HTTP/1.1 200
```
Content-type: application/json
{
    "NextToken": "string",
    "ResourceIdentifiers": [
        {
            "ResourceArn": "string",
            "ResourceType": "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 (p. 21)

The NextToken value to include in a subsequent SearchResources request, to get more results.

Type: String

ResourceIdentifiers (p. 21)

The ARNs and resource types of resources that are members of the group that you specified.

Type: Array of ResourceIdentifier (p. 39) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).

BadRequestException

The request does not comply with validation rules that are defined for the request parameters.

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method which is not allowed for the specified resource.

HTTP Status Code: 405

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429
UnauthorizedException

The request has not been applied because it lacks valid authentication credentials for the target resource.

HTTP Status Code: 401

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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
Tag

Adds specified tags to a resource with the specified ARN. Existing tags on a resource are not changed if they are not specified in the request parameters.

Request Syntax

```plaintext
PUT /resources/Arn/tags HTTP/1.1
Content-type: application/json
{
    "Tags": {
        "string" : "string"
    }
}
```

URI Request Parameters

The request requires the following URI parameters.

Arn (p. 24)

The ARN of the resource to which to add tags.

Pattern: `arn:aws:resource-groups:[a-z]{2}-[a-z]+-[d1]:[0-9]{12}:group/[a-zA-Z0-9_\.-]{1,128}`

Request Body

The request accepts the following data in JSON format.

Tags (p. 24)

The tags to add to the specified resource. A tag is a string-to-string map of key-value pairs. Tag keys can have a maximum character length of 128 characters, and tag values can have a maximum length of 256 characters.

Type: String to string map

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

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

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

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

Required: Yes

Response Syntax

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

Arn (p. 24)

The ARN of the tagged resource.
Type: String
Pattern: arn:aws:resource-groups:[a-z]{2}-[a-z]+-\d{1}:[0-9]{12}:group/[a-zA-Z0-9_-\.]*\{1,128

Tags (p. 24)

The tags that have been added to the specified resource.
Type: String to string map
Key Length Constraints: Minimum length of 1. Maximum length of 128.
Key Pattern: ^([\p{L}\p{Z}\p{N}\p{S}_.:/=\-@]*)$ Value Length Constraints: Minimum length of 0. Maximum length of 256.
Value Pattern: ^([\p{L}\p{Z}\p{N}\p{S}_.:/=\-@]*)$

Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).

BadRequestException

The request does not comply with validation rules that are defined for the request parameters.
HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.
HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.
HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method which is not allowed for the specified resource.
HTTP Status Code: 405

**NotFoundException**

One or more resources specified in the request do not exist.

HTTP Status Code: 404

**TooManyRequestsException**

The caller has exceeded throttling limits.

HTTP Status Code: 429

## 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
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
Untag

Deletes specified tags from a specified resource.

Request Syntax

PATCH /resources/Arn/tags HTTP/1.1
Content-type: application/json

{  "Keys": [ "string" ]
}

URI Request Parameters

The request requires the following URI parameters.

**Arn (p. 27)**

The ARN of the resource from which to remove tags.

Pattern: arn:aws:resource-groups:[a-zA-Z]{2}-[a-zA-Z]+-[a-zA-Z0-9\-\./@]{1,128}

Request Body

The request accepts the following data in JSON format.

**Keys (p. 27)**

The keys of the tags to be removed.

Type: Array of strings


Pattern: ^([\p{L}\p{Z}\p{N}\p{P}\p{Ll}\p{Nl}\p{Pn}\p{Nn}\p{_}\p{1}\p{-}\p{+}\p{-}\p{@}\p{*}\p{*}\p{^}\p{.}\p{=}\p{\}\p{[}\p{]}\p{\}]}\p{.}\p{.}\p{=}\p{+=}\p{-}\p{@}\d])$

Required: Yes

Response Syntax

HTTP/1.1 200
Content-type: application/json

{  "Arn": "string",
   "Keys": [ "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.

**Arn (p. 27)**

The ARN of the resource from which tags have been removed.

Type: String

Pattern: `arn:aws:resource-groups:[a-z]{2}-[a-z]+-[d1]:[0-9]{12}:group/[a-zA-Z0-9_\-\.]{1,128}`

**Keys (p. 27)**

The keys of tags that have been removed.

Type: Array of strings


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

**Errors**

For information about the errors that are common to all actions, see Common Errors (p. 43).

**BadRequestException**

The request does not comply with validation rules that are defined for the request parameters.

HTTP Status Code: 400

**ForbiddenException**

The caller is not authorized to make the request.

HTTP Status Code: 403

**InternalServerErrorException**

An internal error occurred while processing the request.

HTTP Status Code: 500

**MethodNotAllowedException**

The request uses an HTTP method which is not allowed for the specified resource.

HTTP Status Code: 405

**NotFoundException**

One or more resources specified in the request do not exist.

HTTP Status Code: 404

**TooManyRequestsException**

The caller has exceeded throttling limits.

HTTP Status Code: 429

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V2
UpdateGroup

Updates an existing group with a new or changed description. You cannot update the name of a resource group.

Request Syntax

```
PUT /groups/GroupName HTTP/1.1
Content-type: application/json
{
    "Description": "string"
}
```

URI Request Parameters

The request requires the following URI parameters.

GroupName (p. 30)

The name of the resource group for which you want to update its description.


Pattern: [a-zA-Z0-9_.-]+

Request Body

The request accepts the following data in JSON format.

Description (p. 30)

The description of the resource group. Descriptions can have a maximum of 511 characters, including letters, numbers, hyphens, underscores, punctuation, and spaces.

Type: String

Length Constraints: Maximum length of 512.

Pattern: [\sa-zA-Z0-9_\.-]+

Required: No

Response Syntax

```
HTTP/1.1 200
Content-type: application/json
{
    "Group": {
        "Description": "string",
        "GroupArn": "string",
        "Name": "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.

**Group (p. 30)**

The full description of the resource group after it has been updated.

Type: Group (p. 37) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 43).

**BadRequestException**

The request does not comply with validation rules that are defined for the request parameters.

HTTP Status Code: 400

**ForbiddenException**

The caller is not authorized to make the request.

HTTP Status Code: 403

**InternalServerException**

An internal error occurred while processing the request.

HTTP Status Code: 500

**MethodNotAllowedException**

The request uses an HTTP method which is not allowed for the specified resource.

HTTP Status Code: 405

**NotFoundException**

One or more resources specified in the request do not exist.

HTTP Status Code: 404

**TooManyRequestsException**

The caller has exceeded throttling limits.

HTTP Status Code: 429

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
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V2
UpdateGroupQuery

Updates the resource query of a group.

Request Syntax

```plaintext
PUT /groups/GroupName/query HTTP/1.1
Content-type: application/json

{
  "ResourceQuery": {
    "Query": "string",
    "Type": "string"
  }
}
```

URI Request Parameters

The request requires the following URI parameters.

**GroupName (p. 33)**

The name of the resource group for which you want to edit the query.


Pattern: [a-zA-Z0-9_-\.]+

Request Body

The request accepts the following data in JSON format.

**ResourceQuery (p. 33)**

The resource query that determines which AWS resources are members of the resource group.

Type: ResourceQuery (p. 40) object

Required: Yes

Response Syntax

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

{
  "GroupQuery": {
    "GroupName": "string",
    "ResourceQuery": {
      "Query": "string",
      "Type": "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.

**GroupQuery (p. 33)**

The resource query associated with the resource group after the update.

Type: [GroupQuery](p. 38) object

Errors

For information about the errors that are common to all actions, see [Common Errors (p. 43)].

**BadRequestException**

The request does not comply with validation rules that are defined for the request parameters.

HTTP Status Code: 400

**ForbiddenException**

The caller is not authorized to make the request.

HTTP Status Code: 403

**InternalServerErrorException**

An internal error occurred while processing the request.

HTTP Status Code: 500

**MethodNotAllowedException**

The request uses an HTTP method which is not allowed for the specified resource.

HTTP Status Code: 405

**NotFoundException**

One or more resources specified in the request do not exist.

HTTP Status Code: 404

**TooManyRequestsException**

The caller has exceeded throttling limits.

HTTP Status Code: 429

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
• AWS SDK for Java
• AWS SDK for JavaScript
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V2
Data Types

The AWS Resource Groups 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:

- Group (p. 37)
- GroupQuery (p. 38)
- ResourceIdentifier (p. 39)
- ResourceQuery (p. 40)
Group

A resource group.

Contents

Description

The description of the resource group.

Type: String

Length Constraints: Maximum length of 512.

Pattern: [\sa-zA-Z0-9_\.-]+

Required: No

GroupArn

The ARN of a resource group.

Type: String

Pattern: arn:aws:resource-groups:[a-z]{2}-[a-z]+-\d{1}:[0-9]{12}:group/[a-zA-Z0-9_\.-]{1,128}

Required: Yes

Name

The name of a resource group.

Type: String


Pattern: [a-zA-Z0-9_\.-]+

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
GroupQuery

The underlying resource query of a resource group. Resources that match query results are part of the group.

Contents

GroupName

The name of a resource group that is associated with a specific resource query.

Type: String


Pattern: \[a-zA-Z0-9_\-\.\-]+\n
Required: Yes

ResourceQuery

The resource query which determines which AWS resources are members of the associated resource group.

Type: ResourceQuery (p. 40) 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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
Resourceldentifier

The ARN of a resource, and its resource type.

Contents

ResourceArn

The ARN of a resource.

Type: String

Pattern: arn:aws:[a-z0-9]*:([a-z]{2})-([a-z]+\d{1})?:(0-9){12}?::

Required: No

ResourceType

The resource type of a resource, such as AWS:EC2:Instance.

Type: String

Pattern: AWS:[a-zA-Z0-9]+::w+

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
ResourceQuery

The query that is used to define a resource group or a search for resources.

Contents

Query

The query that defines a group or a search.

Type: String

Length Constraints: Maximum length of 2048.

Required: Yes

Type

The type of the query. The valid value in this release is TAG_FILTERS_1_0.

TAG_FILTERS_1_0: A JSON syntax that lets you specify a collection of simple tag filters for resource types and tags, as supported by the AWS Tagging API GetResources operation. When more than one element is present, only resources that match all filters are part of the result. If a filter specifies more than one value for a key, a resource matches the filter if its tag value matches any of the specified values.

Type: String

Valid Values: TAG_FILTERS_1_0

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 Go
- AWS SDK for Java
- AWS SDK for Ruby V2
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’T’HHMMSS’Z’). For example, the following date time is a valid X-Amz-Date value: 20120325T120000Z.

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

Type: string
Required: Conditional

X-Amz-Security-Token

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

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

Type: string
Required: Conditional

X-Amz-Signature

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

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

Type: string
Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string
Required: Conditional
Common Errors

This section lists the 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: 400

**IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

**InternalFailure**

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

HTTP Status Code: 500

**InvalidAction**

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

HTTP Status Code: 400

**InvalidClientTokenId**

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

HTTP Status Code: 403

**InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

**InvalidParameterValue**

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

HTTP Status Code: 400

**InvalidQueryParameter**

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

HTTP Status Code: 400

**MalformedQueryString**

The query string contains a syntax error.

HTTP Status Code: 404

**MissingAction**

The request is missing an action or a required parameter.

HTTP Status Code: 400
MissingAuthenticationToken
The request must contain either a valid (registered) AWS access key ID or X.509 certificate.
HTTP Status Code: 403

MissingParameter
A required parameter for the specified action is not supplied.
HTTP Status Code: 400

OptInRequired
The AWS access key ID needs a subscription for the service.
HTTP Status Code: 403

RequestExpired
The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.
HTTP Status Code: 400

ServiceUnavailable
The request has failed due to a temporary failure of the server.
HTTP Status Code: 503

ThrottlingException
The request was denied due to request throttling.
HTTP Status Code: 400

ValidationError
The input fails to satisfy the constraints specified by an AWS service.
HTTP Status Code: 400