

Amazon Resource Groups



Amazon Resource Groups: Resource Groups API Reference

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Welcome

Amazon Resource Groups lets you organize Amazon resources such as Amazon Elastic Compute Cloud instances, Amazon Relational Database Service databases, and Amazon Simple Storage Service 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 Amazon Systems Manager Automation documents, on tag-related resources in Amazon Systems Manager. Groups of tagged resources also let you quickly view a custom console in Amazon Systems Manager that shows Amazon 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 [Amazon Resource Groups User Guide](#).

Amazon 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 Amazon resource names (ARN)s so they can be returned as search results
- Getting data about resources that are members of a group
- Searching Amazon resources based on a resource query

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Actions

The following actions are supported:

- [CancelTagSyncTask](#)
- [CreateGroup](#)
- [DeleteGroup](#)
- [GetAccountSettings](#)
- [GetGroup](#)
- [GetGroupConfiguration](#)
- [GetGroupQuery](#)
- [GetTags](#)
- [GetTagSyncTask](#)
- [GroupResources](#)
- [ListGroupingStatuses](#)
- [ListGroupResources](#)
- [ListGroups](#)
- [ListTagSyncTasks](#)
- [PutGroupConfiguration](#)
- [SearchResources](#)
- [StartTagSyncTask](#)
- [Tag](#)
- [UngroupResources](#)
- [Untag](#)
- [UpdateAccountSettings](#)
- [UpdateGroup](#)
- [UpdateGroupQuery](#)

CancelTagSyncTask

Cancels the specified tag-sync task.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:CancelTagSyncTask` on the application group
- `resource-groups>DeleteGroup`

Request Syntax

```
POST /cancel-tag-sync-task HTTP/1.1
Content-type: application/json
```

```
{
  "TaskArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

TaskArn

The Amazon resource name (ARN) of the tag-sync task.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[\0-9]{12}:group/[a-zA-Z\0-9_\.-]{1,150}/[a-z\0-9]{26}/tag-sync-task/[a-z\0-9]{26}`

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

Response Elements

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

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

UnauthorizedException

The request was rejected because it doesn't have valid credentials for the target resource.

HTTP Status Code: 401

See Also

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

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

CreateGroup

Creates a resource group with the specified name and description. You can optionally include either a resource query or a service configuration. For more information about constructing a resource query, see [Build queries and groups in Amazon Resource Groups](#) in the *Amazon Resource Groups User Guide*. For more information about service-linked groups and service configurations, see [Service configurations for Resource Groups](#).

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:CreateGroup`

Request Syntax

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

{
  "Configuration": [
    {
      "Parameters": [
        {
          "Name": "string",
          "Values": [ "string" ]
        }
      ],
      "Type": "string"
    }
  ],
  "Criticality": number,
  "Description": "string",
  "DisplayName": "string",
  "Name": "string",
  "Owner": "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.

Name

The name of the group, which is the identifier of the group in other operations. You can't change the name of a resource group after you create it. A resource group name can consist of letters, numbers, hyphens, periods, and underscores. The name cannot start with `AWS`, `aws`, or any other possible capitalization; these are reserved. A resource group name must be unique within each Amazon Region in your Amazon account.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

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

Required: Yes

Configuration

A configuration associates the resource group with an Amazon service and specifies how the service can interact with the resources in the group. A configuration is an array of [GroupConfigurationItem](#) elements. For details about the syntax of service configurations, see [Service configurations for Resource Groups](#).

Note

A resource group can contain either a `Configuration` or a `ResourceQuery`, but not both.

Type: Array of [GroupConfigurationItem](#) objects

Array Members: Maximum number of 2 items.

Required: No

Criticality

The critical rank of the application group on a scale of 1 to 10, with a rank of 1 being the most critical, and a rank of 10 being least critical.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

Description

The description of the resource group. Descriptions can consist of letters, numbers, hyphens, underscores, periods, and spaces.

Type: String

Length Constraints: Maximum length of 1024.

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

Required: No

DisplayName

The name of the application group, which you can change at any time.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 300.

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

Required: No

Owner

A name, email address or other identifier for the person or group who is considered as the owner of this application group within your organization.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 300.

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

Required: No

ResourceQuery

The resource query that determines which Amazon resources are members of this group. For more information about resource queries, see [Create a tag-based group in Resource Groups](#).

Note

A resource group can contain either a ResourceQuery or a Configuration, but not both.

Type: [ResourceQuery](#) object

Required: No

Tags

The tags to add to the group. A tag is key-value pair string.

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": {
    "ApplicationTag": {
      "string" : "string"
    }
  }
}
```

```

    },
    "Criticality": number,
    "Description": "string",
    "DisplayName": "string",
    "GroupArn": "string",
    "Name": "string",
    "Owner": "string"
  },
  "GroupConfiguration": {
    "Configuration": [
      {
        "Parameters": [
          {
            "Name": "string",
            "Values": [ "string" ]
          }
        ],
        "Type": "string"
      }
    ],
    "FailureReason": "string",
    "ProposedConfiguration": [
      {
        "Parameters": [
          {
            "Name": "string",
            "Values": [ "string" ]
          }
        ],
        "Type": "string"
      }
    ],
    "Status": "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

The description of the resource group.

Type: [Group](#) object

GroupConfiguration

The service configuration associated with the resource group. For details about the syntax of a service configuration, see [Service configurations for Resource Groups](#).

Type: [GroupConfiguration](#) object

ResourceQuery

The resource query associated with the group. For more information about resource queries, see [Create a tag-based group in Resource Groups](#).

Type: [ResourceQuery](#) object

Tags

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

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

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

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example creates a resource group in the us-west-2 Region of the calling account. The resource group has a query that specifies that any resources in the account that are tagged with the key Stage and a value of Test are members of the group. The group itself (not its members) is tagged with a key named Department and a value of Finance.

Sample Request

```
POST /groups HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
```

```

Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/
resource-groups.create-group
X-Amz-Date: 20220113T175008Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/
resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-
token,Signature=<SIGV4-SIGNATURE>
Content-Length: 283

```

```

{
  "Description": "Resources created for the testing stage.",
  "Name": "QueryGroup",
  "ResourceQuery": {
    "Query": "{\"ResourceTypeFilters\":[\"AWS::AllSupported\"],\"TagFilters\":[{\"Key\":\"Stage\",\"Values\":[\"Test\"]}]}",
    "Type": "TAG_FILTERS_1_0"
  },
  "Tags": {"Department": "Finance"}
}

```

```

HTTP/1.1 200 OK
Date: Thu, 13 Jan 2022 17:50:08 GMT
Content-Type: application/json
Content-Length: 384
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

```

```

{
  "Group": {
    "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/QueryGroup",
    "Name": "QueryGroup",
    "Description": "Resources created for the testing stage.",
    "OwnerId": "123456789012"
  },
  "ResourceQuery": {
    "Type": "TAG_FILTERS_1_0",
    "Query": "{\"ResourceTypeFilters\":[\"AWS::AllSupported\"],\"TagFilters\":[{\"Key\":\"Stage\",\"Values\":[\"Test\"]}]}"
  },
  "Tags": {"Department": "Finance"}
}

```

```
}
```

Example

The following example creates a resource group with a configuration that makes the group serve as a capacity reservation pool by Amazon Elastic Compute Cloud. This group can contain only Amazon EC2 capacity reservations that you add by using the [GroupResources](#) operation.

Sample Request

```
POST /groups HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.create-group
X-Amz-Date: 20220113T180534Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>Content-Length: 320
Content-Length: 320

{
  "Name": "CRPGroup",
  "Description": "Resource group for capacity reservations.",
  "Configuration": [
    {
      "Type": "AWS::EC2::CapacityReservationPool"
    },
    {
      "Type": "AWS::ResourceGroups::Generic",
      "Parameters": [
        {
          "Name": "allowed-resource-types",
          "Values": [
            "AWS::EC2::CapacityReservation"
          ]
        }
      ]
    }
  ],
  "Tags": {
    "Department": "Finance"
  }
}
```



```
}  
}
```

Sample Response

```
HTTP/1.1 200 OK  
Date: Thu, 13 Jan 2022 18:05:34 GMT  
Content-Type: application/json  
Content-Length: 561  
x-amzn-RequestId: <VARIES>  
x-amz-apigw-id: <VARIES>  
X-Amzn-Trace-Id: Root=<VARIES>  
Connection: keep-alive  
  
{  
  "Group":{  
    "GroupArn":"arn:aws:resource-groups:us-west-2:123456789012:group/CRPGroup",  
    "Name":"CRPGroup",  
    "Description":"Resource group for capacity reservations.",  
    "OwnerId":"123456789012"  
  },  
  "Tags":{  
    "Department":"Finance"  
  },  
  "GroupConfiguration":{  
    "GroupParameters":[  
      {  
        "Name":"allowed-resource-types",  
        "Values":[  
          "AWS::EC2::CapacityReservation"  
        ]  
      }  
    ],  
    "Configuration":[  
      {  
        "Type":"AWS::EC2::CapacityReservationPool"  
      },  
      {  
        "Type":"AWS::ResourceGroups::Generic",  
        "Parameters":[  
          {  
            "Name":"allowed-resource-types",  
            "Values":[]  
          }  
        ]  
      }  
    ]  
  }  
}
```

```

        "AWS::EC2::CapacityReservation"
    ]
}
],
"Status": "UPDATE_COMPLETE"
}
}

```

Example

The following example creates a resource group that can contain only Amazon EC2 hosts. Each instance launched into the group is automatically configured to use any of the available core/socket based license configurations you have defined in Amazon License Manager.

Sample Request

```

POST /groups HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.create-group
X-Amz-Date: 20220113T182832Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
Content-Length: 362

```

```

{
  "Name": "HostManagementGroup",
  "Configuration": [
    {
      "Type": "AWS::EC2::HostManagement",
      "Parameters": [
        {
          "Name": "any-host-based-license-configuration",
          "Values": [
            "true"
          ]
        }
      ]
    }
  ]
}

```

```

    },
    {
      "Type": "AWS::ResourceGroups::Generic",
      "Parameters": [
        {
          "Name": "allowed-resource-types",
          "Values": [
            "AWS::EC2::Host"
          ]
        },
        {
          "Name": "deletion-protection",
          "Values": [
            "UNLESS_EMPTY"
          ]
        }
      ]
    }
  ]
}

```

```

role="response">HTTP/1.1 200 OK
Date: Thu, 13 Jan 2022 18:28:33 GMT
Content-Type: application/json
Content-Length: 881
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "Group": {
    "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/HostManagementGroup",
    "Name": "HostManagementGroup",
    "OwnerId": "123456789012"
  },
  "GroupConfiguration": {
    "GroupParameters": [
      {
        "Name": "allowed-resource-types",
        "Values": [
          "AWS::EC2::Host"
        ]
      }
    ]
  }
}

```

```

        ]
      },
      {
        "Name": "deletion-protection",
        "Values": [
          "UNLESS_EMPTY"
        ]
      }
    ],
    "ResourceTypeParameters": [
      {
        "ResourceType": "AWS::EC2::Host",
        "Name": "exclusive-membership",
        "Values": [
          "ACROSS_SAME_SERVICE_LINK_TYPE"
        ]
      }
    ],
    "ServiceLinkParameters": [
      {
        "Name": "any-host-based-license-configuration",
        "Values": [
          "true"
        ]
      }
    ],
    "Configuration": [
      {
        "Type": "AWS::EC2::HostManagement",
        "Parameters": [
          {
            "Name": "any-host-based-license-configuration",
            "Values": [
              "true"
            ]
          }
        ]
      }
    ],
    {
      "Type": "AWS::ResourceGroups::Generic",
      "Parameters": [
        {
          "Name": "allowed-resource-types",
          "Values": [

```

```
        "AWS::EC2::Host"
      ],
    },
    {
      "Name": "deletion-protection",
      "Values": [
        "UNLESS_EMPTY"
      ]
    }
  ],
  "Status": "UPDATE_COMPLETE"
}
```

See Also

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

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

DeleteGroup

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

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:DeleteGroup`

Request Syntax

```
POST /delete-group HTTP/1.1
Content-type: application/json
```

```
{
  "Group": "string",
  "GroupName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Group

The name or the Amazon resource name (ARN) of the resource group to delete.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}|arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[\d]{12}:group/([a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26})`

Required: No

GroupName

Deprecated - don't use this parameter. Use Group instead.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}`

Required: No

Response Syntax

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

{
  "Group": {
    "ApplicationTag": {
      "string" : "string"
    },
    "Criticality": number,
    "Description": "string",
    "DisplayName": "string",
    "GroupArn": "string",
    "Name": "string",
    "Owner": "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

A full description of the deleted resource group.

Type: Group object

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example deletes the resource group with the name MyGroup in the us-west-2 Region of the calling account.

Sample Request

```
POST /delete-group HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.delete-group
X-Amz-Date: 20220113T205913Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
Content-Length: 20

{
  "Group": "MyGroup"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 13 Jan 2022 20:59:14 GMT
Content-Type: application/json
Content-Length: 127
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "Group": {
    "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/MyGroup",
    "Name": "MyGroup",
    "OwnerId": "123456789012"
  }
}
```

See Also

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

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

GetAccountSettings

Retrieves the current status of optional features in Resource Groups.

Request Syntax

```
POST /get-account-settings HTTP/1.1
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request does not have a request body.

Response Syntax

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

{
  "AccountSettings": {
    "GroupLifecycleEventsDesiredStatus": "string",
    "GroupLifecycleEventsStatus": "string",
    "GroupLifecycleEventsStatusMessage": "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.

[AccountSettings](#)

The current settings for the optional features in Resource Groups.

Type: [AccountSettings](#) object

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example retrieves the current Resource Groups account settings for the calling Amazon Web Services account:

Sample Request

```
POST /get-account-settings HTTP/1.1
```

```
Host: resource-groups.us-east-1.amazonaws.com
Accept-Encoding: identity
User-Agent: <VARIES>
X-Amz-Date: 20221213T214448Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/
resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-
token,Signature=<SIGV4-SIGNATURE>
```

Sample Response

```
HTTP/1.1 200 OK
Date: Tue, 13 Dec 2022 21:44:48 GMT
Content-Type: application/json
Content-Length: 61
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "AccountSettings": {
    "GroupLifecycleEventsStatus": "INACTIVE"
  }
}
```

See Also

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

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

- [Amazon SDK for Python](#)
- [Amazon SDK for Ruby V3](#)

GetGroup

Returns information about a specified resource group.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:GetGroup`

Request Syntax

```
POST /get-group HTTP/1.1
Content-type: application/json

{
  "Group": "string",
  "GroupName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Group

The name or the Amazon resource name (ARN) of the resource group to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}|arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]{12}:group/([a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26})`

Required: No

GroupName

Deprecated - don't use this parameter. Use Group instead.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}`

Required: No

Response Syntax

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

```
{
  "Group": {
    "ApplicationTag": {
      "string" : "string"
    },
    "Criticality": number,
    "Description": "string",
    "DisplayName": "string",
    "GroupArn": "string",
    "Name": "string",
    "Owner": "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

A structure that contains the metadata details for the specified resource group. Use [GetGroupQuery](#) and [GetGroupConfiguration](#) to get those additional details of the resource group.

Type: [Group](#) object

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example displays the metadata about a resource group in the us-west-2 Region for the calling Amazon account. You can then use [GetGroupQuery](#) and [GetGroupConfiguration](#) to get the details of the resource group.

Sample Request

```
POST /get-group HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.get-group
X-Amz-Date: 20220113T211658Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
Content-Length: 21

{"Group": "CRPGroup"}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 13 Jan 2022 21:16:58 GMT
Content-Type: application/json
Content-Length: 193
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "Group": {
    "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/CRPGroup",
    "Name": "CRPGroup",
    "Description": "Resource group for capacity reservations.",
    "OwnerId": "123456789012"
  }
}
```

```
}
```

See Also

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

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

GetGroupConfiguration

Retrieves the service configuration associated with the specified resource group. For details about the service configuration syntax, see [Service configurations for Resource Groups](#).

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:GetGroupConfiguration`

Request Syntax

```
POST /get-group-configuration HTTP/1.1
Content-type: application/json
```

```
{
  "Group": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Group

The name or the Amazon resource name (ARN) of the resource group for which you want to retrieve the service configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}|arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[\0-9]{12}:group/([a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26})`

Required: No

Response Syntax

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

{
  "GroupConfiguration": {
    "Configuration": [
      {
        "Parameters": [
          {
            "Name": "string",
            "Values": [ "string" ]
          }
        ],
        "Type": "string"
      }
    ],
    "FailureReason": "string",
    "ProposedConfiguration": [
      {
        "Parameters": [
          {
            "Name": "string",
            "Values": [ "string" ]
          }
        ],
        "Type": "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.

GroupConfiguration

A structure that describes the service configuration attached with the specified group. For details about the service configuration syntax, see [Service configurations for Resource Groups](#).

Type: [GroupConfiguration](#) object

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example shows the typical output of a resource group that contains capacity reservations.

Sample Request

```
POST /get-group-configuration HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.get-group-configuration
X-Amz-Date: 20220113T213346Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
Content-Length: 21

{
  "Group": "CRPGroup"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 13 Jan 2022 21:33:46 GMT
Content-Type: application/json
Content-Length: 461
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "GroupIdentifier":{
    "GroupName":"CRPGroup",
    "GroupArn":"arn:aws:resource-groups:us-west-2:123456789012:group/CRPGroup"
```

```

    },
    "GroupConfiguration":{
      "GroupParameters":[
        {
          "Name":"allowed-resource-types",
          "Values":[
            "AWS::EC2::CapacityReservation"
          ]
        }
      ],
      "Configuration":[
        {
          "Type":"AWS::EC2::CapacityReservationPool"
        },
        {
          "Type":"AWS::ResourceGroups::Generic",
          "Parameters":[
            {
              "Name":"allowed-resource-types",
              "Values":[
                "AWS::EC2::CapacityReservation"
              ]
            }
          ]
        }
      ]
    },
    "Status":"UPDATE_COMPLETE"
  }
}

```

Example

The following example shows the typical output of a resource group that contains a configuration for Amazon EC2 dedicated hosts.

Sample Request

```

POST /get-group-configuration HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/
resource-groups.get-group-configuration
X-Amz-Date: 20220113T213500Z

```



```
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/
resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-
token,Signature=<SIGV4-SIGNATURE>
Content-Length: 32

{
  "Group": "HostManagementGroup"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 13 Jan 2022 21:35:00 GMT
Content-Type: application/json
Content-Length: 871
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "GroupIdentifier":{
    "GroupName":"HostManagementGroup",
    "GroupArn":"arn:aws:resource-groups:us-west-2:123456789012:group/
HostManagementGroup"
  },
  "GroupConfiguration":{
    "GroupParameters":[
      {
        "Name":"allowed-resource-types",
        "Values":[
          "AWS::EC2::Host"
        ]
      },
      {
        "Name":"deletion-protection",
        "Values":[
          "UNLESS_EMPTY"
        ]
      }
    ],
    "ResourceTypeParameters":[]
  }
}
```

```

    {
      "ResourceType": "AWS::EC2::Host",
      "Name": "exclusive-membership",
      "Values": [
        "ACROSS_SAME_SERVICE_LINK_TYPE"
      ]
    }
  ],
  "ServiceLinkParameters": [
    {
      "Name": "any-host-based-license-configuration",
      "Values": [
        "true"
      ]
    }
  ],
  "Configuration": [
    {
      "Type": "AWS::EC2::HostManagement",
      "Parameters": [
        {
          "Name": "any-host-based-license-configuration",
          "Values": [
            "true"
          ]
        }
      ]
    }
  ],
  {
    "Type": "AWS::ResourceGroups::Generic",
    "Parameters": [
      {
        "Name": "allowed-resource-types",
        "Values": [
          "AWS::EC2::Host"
        ]
      },
      {
        "Name": "deletion-protection",
        "Values": [
          "UNLESS_EMPTY"
        ]
      }
    ]
  }
]

```

```
        }
    ],
    "Status": "UPDATE_COMPLETE"
}
}
```

See Also

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

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

GetGroupQuery

Retrieves the resource query associated with the specified resource group. For more information about resource queries, see [Create a tag-based group in Resource Groups](#).

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:GetGroupQuery`

Request Syntax

```
POST /get-group-query HTTP/1.1
Content-type: application/json

{
  "Group": "string",
  "GroupName": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Group

The name or the Amazon resource name (ARN) of the resource group to query.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}|arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]{12}:group/([a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26})`

Required: No

GroupName

This parameter has been deprecated.

Don't use this parameter. Use Group instead.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}`

Required: No

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

The resource query associated with the specified group. For more information about resource queries, see [Create a tag-based group in Resource Groups](#).

Type: [GroupQuery](#) object

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

This example illustrates one usage of `GetGroupQuery`.

Sample Request

```
POST /get-group-query HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.get-group-query
X-Amz-Date: 20220114T180718Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
Content-Length: 19

{
  "Group": "MyTagQueryGroup"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Fri, 14 Jan 2022 18:07:18 GMT
Content-Type: application/json
Content-Length: 206
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "GroupQuery": {
    "GroupName": "MyTagQueryGroup",
    "ResourceQuery": {
      "Type": "TAG_FILTERS_1_0",
      "Query": "{\"ResourceTypeFilters\": [\"AWS::EC2::Instance\"], \"TagFilters\": [{\"Key\": \"Name\", \"Values\": [\"WebServers\"]}]}"
    }
  }
}
```

See Also

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

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

GetTags

Returns a list of tags that are associated with a resource group, specified by an Amazon resource name (ARN).

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:GetTags`

Request Syntax

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

URI Request Parameters

The request uses the following URI parameters.

Arn

The Amazon resource name (ARN) of the resource group whose tags you want to retrieve.

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[\0-9]{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

Required: Yes

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

The Amazon resource name (ARN) of the tagged resource group.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+):resource-groups:[a-z]{2}(-[a-z]+)-\d{1}:[0-9]{12}:group/([a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26})`

Tags

The tags associated with the specified resource 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}_.: /+=\ -@]*)$`

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

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

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example retrieves the tags attached to the resource group with this ARN:

```
arn:aws:resource-groups:us-east-1:123456789012:group/MyGroup/tags
```

by querying the service's endpoint in us-east-1. Note that the ARN must be [URL encoded](#).

Sample Request

```
GET /resources/arn%3Aaws%3Aresource-groups%3Aus-east-1%3A123456789012%3Agroup%2FMyGroup/tags HTTP/1.1
Host: resource-groups.us-east-1.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.get-tags
X-Amz-Date: 20211201T173340Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
```

Sample Response

```
HTTP/1.1 200 OK
Date: Fri, 14 Jan 2022 18:40:33 GMT
Content-Type: application/json
Content-Length: 97
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "Arn": "arn:aws:resource-groups:us-east-1:123456789012:group/MyGroup",
  "Tags": {
    "Stage": "Production"
  }
}
```

See Also

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

- [Amazon Command Line Interface](#)
- [Amazon SDK for .NET](#)
- [Amazon SDK for C++](#)
- [Amazon SDK for Go v2](#)

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

GetTagSyncTask

Returns information about a specified tag-sync task.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:GetTagSyncTask` on the application group

Request Syntax

```
POST /get-tag-sync-task HTTP/1.1
Content-type: application/json
```

```
{
  "TaskArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[TaskArn](#)

The Amazon resource name (ARN) of the tag-sync task.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[\0-9]{12}:group/[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}/tag-sync-task/[a-z0-9]{26}`

Required: Yes

Response Syntax

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

{
  "CreatedAt": number,
  "ErrorMessage": "string",
  "GroupArn": "string",
  "GroupName": "string",
  "ResourceQuery": {
    "Query": "string",
    "Type": "string"
  },
  "RoleArn": "string",
  "Status": "string",
  "TagKey": "string",
  "TagValue": "string",
  "TaskArn": "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.

CreatedAt

The timestamp of when the tag-sync task was created.

Type: Timestamp

ErrorMessage

The specific error message in cases where the tag-sync task status is ERROR.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

GroupArn

The Amazon resource name (ARN) of the application group.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+):resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

GroupName

The name of the application group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `[a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26}`

ResourceQuery

The query you can use to define a resource group or a search for resources. A `ResourceQuery` specifies both a query Type and a Query string as JSON string objects. See the examples section for example JSON strings. For more information about creating a resource group with a resource query, see [Build queries and groups in Amazon Resource Groups](#) in the *Amazon Resource Groups User Guide*

When you combine all of the elements together into a single string, any double quotes that are embedded inside another double quote pair must be escaped by preceding the embedded double quote with a backslash character (`\`). For example, a complete `ResourceQuery` parameter must be formatted like the following CLI parameter example:

```
--resource-query
'{"Type":"TAG_FILTERS_1_0","Query":{"ResourceTypeFilters\":[\"AWS::AllSupported\"],\"TagFilters\":{\"Key\":"Stage\", \"Values\":[\"Test\"]}}}'
```

In the preceding example, all of the double quote characters in the value part of the Query element must be escaped because the value itself is surrounded by double quotes. For more information, see [Quoting strings](#) in the *Amazon Command Line Interface User Guide*.

For the complete list of resource types that you can use in the array value for `ResourceTypeFilters`, see [Resources you can use with Amazon Resource Groups and Tag Editor](#) in the *Amazon Resource Groups User Guide*. For example:


```
"ResourceTypeFilters":["AWS::S3::Bucket", "AWS::EC2::Instance"]
```

Type: [ResourceQuery](#) object

[RoleArn](#)

The Amazon resource name (ARN) of the role assumed by Resource Groups to tag and untag resources on your behalf.

For more information about this role, review [Tag-sync required permissions](#).

Type: String

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

Pattern: `arn:(aws[a-zA-Z-]*)?:iam::\d{12}:role/?[a-zA-Z_0-9+=,.\@\-_/\]+`

[Status](#)

The status of the tag-sync task.

Valid values include:

- **ACTIVE** - The tag-sync task is actively managing resources in the application by adding or removing the `awsApplication` tag from resources when they are tagged or untagged with the specified tag key-value pair.
- **ERROR** - The tag-sync task is not actively managing resources in the application. Review the `ErrorMessage` for more information about resolving the error.

Type: String

Valid Values: ACTIVE | ERROR

[TagKey](#)

The tag key.

Type: String

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

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

[TagValue](#)

The tag value.

Type: String

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

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

TaskArn

The Amazon resource name (ARN) of the tag-sync task.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]{12}:group/[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26}/tag-sync-task/[a-z0-9]{26}`

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

UnauthorizedException

The request was rejected because it doesn't have valid credentials for the target resource.

HTTP Status Code: 401

See Also

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

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

GroupResources

Adds the specified resources to the specified group.

Important

You can only use this operation with the following groups:

- `AWS::EC2::HostManagement`
- `AWS::EC2::CapacityReservationPool`
- `AWS::ResourceGroups::ApplicationGroup`

Other resource group types and resource types are not currently supported by this operation.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:GroupResources`

Request Syntax

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

{
  "Group": "string",
  "ResourceArns": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Group

The name or the Amazon resource name (ARN) of the resource group to add resources to.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}|arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:([0-9]{12}):group/([a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26})`

Required: Yes

ResourceArns

The list of Amazon resource names (ARNs) of the resources to be added to the group.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

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

Required: Yes

Response Syntax

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

{
  "Failed": [
    {
      "ErrorCode": "string",
      "ErrorMessage": "string",
      "ResourceArn": "string"
    }
  ],
  "Pending": [
    {
      "ResourceArn": "string"
    }
  ]
}
```

```
    }  
  ],  
  "Succeeded": [ "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.

[Failed](#)

A list of Amazon resource names (ARNs) of any resources that this operation failed to add to the group.

Type: Array of [FailedResource](#) objects

[Pending](#)

A list of Amazon resource names (ARNs) of any resources that this operation is still in the process adding to the group. These pending additions continue asynchronously. You can check the status of pending additions by using the [ListGroupResources](#) operation, and checking the Resources array in the response and the Status field of each object in that array.

Type: Array of [PendingResource](#) objects

[Succeeded](#)

A list of Amazon resource names (ARNs) of the resources that this operation successfully added to the group.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

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

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example adds two Amazon EC2 capacity reservations to the specified resource group. The group is configured to allow only capacity reservations as group members.

Sample Request

```
POST /group-resources HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
```

```
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/
resource-groups.group-resources
X-Amz-Date: 20220114T203701Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/
resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-
token,Signature=<SIGV4-SIGNATURE>
Content-Length: 199

{
  "Group": "CRPGroup",
  "ResourceArns": [
    "arn:aws:ec2:us-west-2:123456789012:capacity-reservation/cr-0070b00d13EXAMPLE",
    "arn:aws:ec2:us-west-2:123456789012:capacity-reservation/cr-061abec820EXAMPLE"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Fri, 14 Jan 2022 20:37:01 GMT
Content-Type: application/json
Content-Length: 119
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "Succeeded": [
    "arn:aws:ec2:us-west-2:123456789012:capacity-reservation/cr-0070b00d13EXAMPLE",
    "arn:aws:ec2:us-west-2:123456789012:capacity-reservation/cr-061abec820EXAMPLE"
  ],
  "Failed": [],
  "Pending": []
}
```

See Also

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

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

ListGroupingStatuses

Returns the status of the last grouping or ungrouping action for each resource in the specified application group.

Request Syntax

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

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "Group": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Group

The application group identifier, expressed as an Amazon resource name (ARN) or the application group name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}|arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]{12}:group/([a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26})`

Required: Yes

Filters

The filter name and value pair that is used to return more specific results from a list of resources.

Type: Array of [ListGroupingStatusesFilter](#) objects

Required: No

MaxResults

The maximum number of resources and their statuses returned in the response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

NextToken

The parameter for receiving additional results if you receive a NextToken response in a previous request. A NextToken response indicates that more output is available. Set this parameter to the value provided by a previous call's NextToken response to indicate where the output should continue from.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 8192.

Pattern: `^[a-zA-Z0-9+/*]{0,2}$`

Required: No

Response Syntax

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

{
  "Group": "string",
  "GroupingStatuses": [
```

```
{
  "Action": "string",
  "ErrorCode": "string",
  "ErrorMessage": "string",
  "ResourceArn": "string",
  "Status": "string",
  "UpdatedAt": number
},
"NextToken": "string"
}
```

Response Elements

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

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

Group

The application group identifier, expressed as an Amazon resource name (ARN) or the application group name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `[a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26}|arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

GroupingStatuses

Returns details about the grouping or ungrouping status of the resources in the specified application group.

Type: Array of [GroupingStatusesItem](#) objects

NextToken

If present, indicates that more output is available than is included in the current response. Use this value in the `NextToken` request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the `NextToken` response element comes back as `null`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 8192.

Pattern: `^[a-zA-Z0-9+/*]{0,2}$`

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

See Also

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

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

ListGroupResources

Returns a list of Amazon resource names (ARNs) of the resources that are members of a specified resource group.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:ListGroupResources`
- `cloudformation:DescribeStacks`
- `cloudformation:ListStackResources`
- `tag:GetResources`

Request Syntax

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

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ],
  "Group": "string",
  "GroupName": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Filters

Filters, formatted as [ResourceFilter](#) objects, that you want to apply to a `ListGroupResources` operation. Filters the results to include only those of the specified resource types.

- `resource-type` - Filter resources by their type. Specify up to five resource types in the format `AWS::ServiceCode::ResourceType`. For example, `AWS::EC2::Instance`, or `AWS::S3::Bucket`.

When you specify a `resource-type` filter for `ListGroupResources`, Amazon Resource Groups validates your filter resource types against the types that are defined in the query associated with the group. For example, if a group contains only S3 buckets because its query specifies only that resource type, but your `resource-type` filter includes EC2 instances, AWS Resource Groups does not filter for EC2 instances. In this case, a `ListGroupResources` request returns a `BadRequestException` error with a message similar to the following:

```
The resource types specified as filters in the request are not valid.
```

The error includes a list of resource types that failed the validation because they are not part of the query associated with the group. This validation doesn't occur when the group query specifies `AWS::AllSupported`, because a group based on such a query can contain any of the allowed resource types for the query type (tag-based or Amazon CloudFront stack-based queries).

Type: Array of [ResourceFilter](#) objects

Required: No

Group

The name or the Amazon resource name (ARN) of the resource group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

```
Pattern: [a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26}|
arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]
{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})
```

Required: No

GroupName

Important

Deprecated - don't use this parameter. Use the Group request field instead.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `[a-zA-Z0-9_\.\-]{1,300}|[a-zA-Z0-9_\.\-]{1,150}/[a-z0-9]{26}`

Required: No

MaxResults

The total number of results that you want included on each page of the response. If you do not include this parameter, it defaults to a value that is specific to the operation. If additional items exist beyond the maximum you specify, the `NextToken` response element is present and has a value (is not null). Include that value as the `NextToken` request parameter in the next call to the operation to get the next part of the results. Note that the service might return fewer results than the maximum even when there are more results available. You should check `NextToken` after every operation to ensure that you receive all of the results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

NextToken

The parameter for receiving additional results if you receive a `NextToken` response in a previous request. A `NextToken` response indicates that more output is available. Set this parameter to the value provided by a previous call's `NextToken` response to indicate where the output should continue from.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 8192.

Pattern: `^[a-zA-Z0-9+/]*={0,2}$`

Required: No

Response Syntax

HTTP/1.1 200

Content-type: application/json

```
{
  "NextToken": "string",
  "QueryErrors": [
    {
      "ErrorCode": "string",
      "Message": "string"
    }
  ],
  "ResourceIdentifiers": [
    {
      "ResourceArn": "string",
      "ResourceType": "string"
    }
  ],
  "Resources": [
    {
      "Identifier": {
        "ResourceArn": "string",
        "ResourceType": "string"
      },
      "Status": {
        "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.

[NextToken](#)

If present, indicates that more output is available than is included in the current response. Use this value in the `NextToken` request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the `NextToken` response element comes back as `null`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 8192.

Pattern: `^[a-zA-Z0-9+/*]{0,2}$`

[QueryErrors](#)

A list of `QueryError` objects. Each error contains an `ErrorCode` and `Message`.

Possible values for `ErrorCode` are `CLOUDFORMATION_STACK_INACTIVE`, `CLOUDFORMATION_STACK_NOT_EXISTING`, `CLOUDFORMATION_STACK_UNASSUMABLE_ROLE` and `RESOURCE_TYPE_NOT_SUPPORTED`.

Type: Array of [QueryError](#) objects

[ResourceIdentifiers](#)

Important

Deprecated - don't use this parameter. Use the `Resources` response field instead.

Type: Array of [ResourceIdentifier](#) objects

[Resources](#)

An array of resources from which you can determine each resource's identity, type, and group membership status.

Type: Array of [ListGroupResourcesItem](#) objects

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

UnauthorizedException

The request was rejected because it doesn't have valid credentials for the target resource.

HTTP Status Code: 401

Examples

Example

This example illustrates one usage of `ListGroupResources`.

Sample Request

```
POST /list-group-resources HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.list-group-resources
X-Amz-Date: 20220114T205755Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
Content-Length: 21

{
  "Group": "CRPGroup"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Fri, 14 Jan 2022 20:57:55 GMT
Content-Type: application/json
Content-Length: 654
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "Resources": [
    {
      "Identifier": {
        "ResourceArn": "arn:aws:ec2:us-west-2:123456789012:capacity-reservation/cr-0070b00d13EXAMPLE",
        "ResourceType": "AWS::EC2::CapacityReservation"
      }
    },
    {
      "Identifier": {
        "ResourceArn": "arn:aws:ec2:us-west-2:123456789012:capacity-reservation/cr-061abec820EXAMPLE",
        "ResourceType": "AWS::EC2::CapacityReservation"
      }
    }
  ]
}
```

```
    }  
  }  
],  
  "QueryErrors": []  
}
```

See Also

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

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

ListGroups

Returns a list of existing Resource Groups in your account.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:ListGroup`s

Request Syntax

```
POST /groups-list?maxResults=MaxResults&nextToken=NextToken HTTP/1.1
Content-type: application/json
```

```
{
  "Filters": [
    {
      "Name": "string",
      "Values": [ "string" ]
    }
  ]
}
```

URI Request Parameters

The request uses the following URI parameters.

MaxResults

The total number of results that you want included on each page of the response. If you do not include this parameter, it defaults to a value that is specific to the operation. If additional items exist beyond the maximum you specify, the `NextToken` response element is present and has a value (is not null). Include that value as the `NextToken` request parameter in the next call to the operation to get the next part of the results. Note that the service might return fewer results than the maximum even when there are more results available. You should check `NextToken` after every operation to ensure that you receive all of the results.

Valid Range: Minimum value of 1. Maximum value of 50.

[NextToken](#)

The parameter for receiving additional results if you receive a `NextToken` response in a previous request. A `NextToken` response indicates that more output is available. Set this parameter to the value provided by a previous call's `NextToken` response to indicate where the output should continue from.

Length Constraints: Minimum length of 0. Maximum length of 8192.

Pattern: `^[a-zA-Z0-9+/*]{0,2}$`

Request Body

The request accepts the following data in JSON format.

[Filters](#)

Filters, formatted as [GroupFilter](#) objects, that you want to apply to a `ListGroups` operation.

- `resource-type` - Filter the results to include only those resource groups that have the specified resource type in their `ResourceTypeFilter`. For example, `AWS::EC2::Instance` would return any resource group with a `ResourceTypeFilter` that includes `AWS::EC2::Instance`.
- `configuration-type` - Filter the results to include only those groups that have the specified configuration types attached. The current supported values are:
 - `AWS::ResourceGroups::ApplicationGroup`
 - `AWS::AppRegistry::Application`
 - `AWS::AppRegistry::ApplicationResourceGroup`
 - `AWS::CloudFormation::Stack`
 - `AWS::EC2::CapacityReservationPool`
 - `AWS::EC2::HostManagement`
 - `AWS::NetworkFirewall::RuleGroup`

Type: Array of [GroupFilter](#) objects

Required: No

Response Syntax

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

{
  "GroupIdentifiers": [
    {
      "Criticality": number,
      "Description": "string",
      "DisplayName": "string",
      "GroupArn": "string",
      "GroupName": "string",
      "Owner": "string"
    }
  ],
  "Groups": [
    {
      "ApplicationTag": {
        "string" : "string"
      },
      "Criticality": number,
      "Description": "string",
      "DisplayName": "string",
      "GroupArn": "string",
      "Name": "string",
      "Owner": "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.

GroupIdentifiers

A list of [GroupIdentifier](#) objects. Each identifier is an object that contains both the Name and the GroupArn.

Type: Array of [GroupIdentifier](#) objects

[Groups](#)

Important

Deprecated - don't use this field. Use the `GroupIdentifiers` response field instead.

Type: Array of [Group](#) objects

[NextToken](#)

If present, indicates that more output is available than is included in the current response. Use this value in the `NextToken` request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the `NextToken` response element comes back as `null`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 8192.

Pattern: `^[a-zA-Z0-9+/*]{0,2}$`

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example lists all of the resource groups in the specified Amazon Region and account.

Sample Request

```
POST /groups-list HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.list-groups
X-Amz-Date: 20220119T231526Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
Content-Length: 0
```

Sample Response

```
HTTP/1.1 200 OK
Date: Wed, 19 Jan 2022 23:15:26 GMT
Content-Type: application/json
Content-Length: 5655
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive
```

```
{
  "GroupIdentifiers": [
    {
      "GroupName": "Group1",
      "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/Group1",
      "OwnerId": "123456789012"
    },
    {
      "GroupName": "Group2",
      "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/Group2",
      "OwnerId": "123456789012"
    },
    {
      "GroupName": "Group3",
      "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/Group3",
      "OwnerId": "123456789012"
    }
  ],
  "Groups": [ ... DEPRECATED ... DO NOT USE ... ]
}
```

Example

The following example lists all resource groups that are configured with a configure type of `AWS::EC2::HostMangement`.

Sample Request

```
POST /groups-list HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.list-groups
X-Amz-Date: 20220119T232648Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
Content-Length: 85

{
  "Filters": [
```

```
{
  "Name": "configuration-type",
  "Values": [
    "AWS::EC2::HostManagement"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Wed, 19 Jan 2022 23:26:48 GMT
Content-Type: application/json
Content-Length: 621
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "GroupIdentifiers": [
    {
      "GroupName": "HostManagementGroup1",
      "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/HostManagementGroup1",
      "OwnerId": "123456789012"
    },
    {
      "GroupName": "HostManagementGroup2",
      "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/HostManagementGroup2",
      "OwnerId": "123456789012"
    }
  ],
  "Groups": [ ... DEPRECATED ... DO NOT USE ... ]
}
```

See Also

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

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

ListTagSyncTasks

Returns a list of tag-sync tasks.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:ListTagSyncTasks` with the group passed in the filters as the resource or * if using no filters

Request Syntax

```
POST /list-tag-sync-tasks HTTP/1.1
Content-type: application/json
```

```
{
  "Filters": [
    {
      "GroupArn": "string",
      "GroupName": "string"
    }
  ],
  "MaxResults": number,
  "NextToken": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Filters

The Amazon resource name (ARN) or name of the application group for which you want to return a list of tag-sync tasks.

Type: Array of [ListTagSyncTasksFilter](#) objects

Required: No

MaxResults

The maximum number of results to be included in the response.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

NextToken

The parameter for receiving additional results if you receive a NextToken response in a previous request. A NextToken response indicates that more output is available. Set this parameter to the value provided by a previous call's NextToken response to indicate where the output should continue from.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 8192.

Pattern: `^[a-zA-Z0-9+/*]*={0,2}$`

Required: No

Response Syntax

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

{
  "NextToken": "string",
  "TagSyncTasks": [
    {
      "CreatedAt": number,
      "ErrorMessage": "string",
      "GroupArn": "string",
      "GroupName": "string",
      "ResourceQuery": {
        "Query": "string",
        "Type": "string"
      }
    }
  ]
}
```



```
    },  
    "RoleArn": "string",  
    "Status": "string",  
    "TagKey": "string",  
    "TagValue": "string",  
    "TaskArn": "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

If present, indicates that more output is available than is included in the current response. Use this value in the NextToken request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the NextToken response element comes back as null.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 8192.

Pattern: `^[a-zA-Z0-9+/*]{0,2}$`

TagSyncTasks

A list of tag-sync tasks and information about each task.

Type: Array of [TagSyncTaskItem](#) objects

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

UnauthorizedException

The request was rejected because it doesn't have valid credentials for the target resource.

HTTP Status Code: 401

See Also

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

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

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

PutGroupConfiguration

Attaches a service configuration to the specified group. This occurs asynchronously, and can take time to complete. You can use [GetGroupConfiguration](#) to check the status of the update.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:PutGroupConfiguration`

Request Syntax

```
POST /put-group-configuration HTTP/1.1
Content-type: application/json
```

```
{
  "Configuration": [
    {
      "Parameters": [
        {
          "Name": "string",
          "Values": [ "string" ]
        }
      ],
      "Type": "string"
    }
  ],
  "Group": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Configuration

The new configuration to associate with the specified group. A configuration associates the resource group with an Amazon service and specifies how the service can interact with the resources in the group. A configuration is an array of [GroupConfigurationItem](#) elements.

For information about the syntax of a service configuration, see [Service configurations for Resource Groups](#).

Note

A resource group can contain either a Configuration or a ResourceQuery, but not both.

Type: Array of [GroupConfigurationItem](#) objects

Array Members: Maximum number of 2 items.

Required: No

Group

The name or Amazon resource name (ARN) of the resource group with the configuration that you want to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `[a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26}|arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

Required: No

Response Syntax

```
HTTP/1.1 202
```

Response Elements

If the action is successful, the service sends back an HTTP 202 response with an empty HTTP body.

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example 1: Configure a resource group to contain Amazon EC2 capacity reservations

The following example attaches a configuration that limits the group to containing Amazon EC2 capacity reservations.

Sample Request

```
POST /put-group-configuration HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.put-group-configuration
X-Amz-Date: 20220120T204033Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
Content-Length: 226

{
  "Group": "CRPGroup",
  "Configuration": [
    {
      "Type": "AWS::EC2::CapacityReservationPool"
    },
    {
      "Type": "AWS::ResourceGroups::Generic",
      "Parameters": [
        {
          "Name": "allowed-resource-types",
          "Values": [
            "AWS::EC2::CapacityReservation"
          ]
        }
      ]
    }
  ]
}
```

Sample Response

```
HTTP/1.1 202 Accepted
Date: Thu, 20 Jan 2022 20:40:33 GMT
Content-Type: application/json
Content-Length: 337
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "GroupIdentifier": {
    "GroupName": "CRPGroup",
    "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/CRPGroup"
  },
  "GroupConfiguration": {
    "Configuration": [
      {
        "Type": "AWS::EC2::CapacityReservationPool"
      },
      {
        "Type": "AWS::ResourceGroups::Generic",
        "Parameters": [
          {
            "Name": "allowed-resource-types",
            "Values": [
              "AWS::EC2::CapacityReservation"
            ]
          }
        ]
      }
    ]
  }
}
```

Example 2: Configure a resource group to contain Amazon EC2 hosts of family type C5 with license support

The following example attaches a configuration to the resource group that limits the group to containing only Amazon EC2 hosts and provides settings that are enforced on any Amazon EC2 instances that are launched into this group.

Sample Request

```
POST /put-group-configuration HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/
resource-groups.put-group-configuration
X-Amz-Date: 20220120T204033Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/
resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-
token,Signature=<SIGV4-SIGNATURE>
Content-Length: 314
```

```
{
  "Group": "HostManagementGroup",
  "Configuration": [
    {
      "Type": "AWS::EC2::HostManagement",
      "Parameters": [
        {
          "Name": "any-host-based-license-configuration",
          "Values": ["true"]
        },
        {
          "Name": "allowed-host-families",
          "Values": ["c5"]
        }
      ]
    },
    {
      "Type": "AWS::ResourceGroups::Generic",
      "Parameters": [
        {
          "Name": "allowed-resource-types",
          "Values": ["AWS::EC2::Host"]
        },
        {
          "Name": "deletion-protection",
          "Values": ["UNLESS_EMPTY"]
        }
      ]
    }
  ]
}
```

```
}
```

Sample Response

```
HTTP/1.1 202 Accepted
Date: Thu, 20 Jan 2022 20:40:33 GMT
Content-Type: application/json
Content-Length: 337
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "GroupIdentifier": {
    "GroupName": "HostManagementGroup",
    "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/HostManagementGroup"
  },
  "GroupConfiguration": {
    "Configuration": [
      {
        "Type": "AWS::EC2::HostManagement",
        "Parameters": [
          {
            "Name": "any-host-based-license-configuration",
            "Values": ["true"]
          },
          {
            "Name": "allowed-host-families",
            "Values": ["c5"]
          }
        ]
      },
      {
        "Type": "AWS::ResourceGroups::Generic",
        "Parameters": [
          {
            "Name": "allowed-resource-types",
            "Values": ["AWS::EC2::Host"]
          },
          {
            "Name": "deletion-protection",
```

```
}
  {
    ]
    }
    ]
    "Values": ["UNLESS_EMPTY"]
  }
```

See Also

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

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

SearchResources

Returns a list of Amazon resource identifiers that matches the specified query. The query uses the same format as a resource query in a [CreateGroup](#) or [UpdateGroupQuery](#) operation.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:SearchResources`
- `cloudformation:DescribeStacks`
- `cloudformation:ListStackResources`
- `tag:GetResources`

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.

[ResourceQuery](#)

The search query, using the same formats that are supported for resource group definition. For more information, see [CreateGroup](#).

Type: [ResourceQuery](#) object

Required: Yes

[MaxResults](#)

The total number of results that you want included on each page of the response. If you do not include this parameter, it defaults to a value that is specific to the operation. If additional items exist beyond the maximum you specify, the `NextToken` response element is present and has a value (is not null). Include that value as the `NextToken` request parameter in the next call to the operation to get the next part of the results. Note that the service might return fewer results than the maximum even when there are more results available. You should check `NextToken` after every operation to ensure that you receive all of the results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 50.

Required: No

[NextToken](#)

The parameter for receiving additional results if you receive a `NextToken` response in a previous request. A `NextToken` response indicates that more output is available. Set this parameter to the value provided by a previous call's `NextToken` response to indicate where the output should continue from.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 8192.

Pattern: `^[a-zA-Z0-9+/*]{0,2}$`

Required: No

Response Syntax

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

{
  "NextToken": "string",
```

```
"QueryErrors": [  
  {  
    "ErrorCode": "string",  
    "Message": "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](#)

If present, indicates that more output is available than is included in the current response. Use this value in the `NextToken` request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the `NextToken` response element comes back as `null`.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 8192.

Pattern: `^[a-zA-Z0-9+/*]{0,2}$`

[QueryErrors](#)

A list of `QueryError` objects. Each error contains an `ErrorCode` and `Message`.

Possible values for `ErrorCode`:

- `CLOUDFORMATION_STACK_INACTIVE`
- `CLOUDFORMATION_STACK_NOT_EXISTING`
- `CLOUDFORMATION_STACK_UNASSUMABLE_ROLE`

Type: Array of [QueryError](#) objects

[ResourceIdentifiers](#)

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

Type: Array of [ResourceIdentifier](#) objects

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

UnauthorizedException

The request was rejected because it doesn't have valid credentials for the target resource.

HTTP Status Code: 401

Examples

Example

The following example retrieves a list of resources of all types that are tagged with a key of Stage and a value of either Test or Prod.

Sample Request

```
POST /resources/search HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.search-resources
X-Amz-Date: 20220120T213215Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
Content-Length: 176

{
  "ResourceQuery": {
    "Query": "{\"ResourceTypeFilters\":[\"AWS::AllSupported\"],\"TagFilters\":[{\"Key\":\"Stage\",\"Values\":[\"Test\",\"Prod\"]}]}\",
    "Type": "TAG_FILTERS_1_0"
  }
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 20 Jan 2022 21:32:15 GMT
Content-Type: application/json
Content-Length: 161
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "ResourceIdentifiers": [
```



```
{
    "ResourceArn": "arn:aws:ec2:us-west-2:123456789012:dhcp-options/
dopt-1a2b3c4d",
    "ResourceType": "AWS::EC2::DHCPOptions"
},
"QueryErrors": []
}
```

See Also

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

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

StartTagSyncTask

Creates a new tag-sync task to onboard and sync resources tagged with a specific tag key-value pair to an application. To start a tag-sync task, you need a [resource tagging role](#). The resource tagging role grants permissions to tag and untag applications resources and must include a trust policy that allows Resource Groups to assume the role and perform resource tagging tasks on your behalf.

For instructions on creating a tag-sync task, see [Create a tag-sync using the Resource Groups API](#) in the *Amazon Service Catalog AppRegistry Administrator Guide*.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:StartTagSyncTask` on the application group
- `resource-groups:CreateGroup`
- `iam:PassRole` on the role provided in the request

Request Syntax

```
POST /start-tag-sync-task HTTP/1.1
Content-type: application/json
```

```
{
  "Group": "string",
  "ResourceQuery": {
    "Query": "string",
    "Type": "string"
  },
  "RoleArn": "string",
  "TagKey": "string",
  "TagValue": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Group

The Amazon resource name (ARN) or name of the application group for which you want to create a tag-sync task.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}|arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[\0-9]{12}:group/([a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26})`

Required: Yes

RoleArn

The Amazon resource name (ARN) of the role assumed by the service to tag and untag resources on your behalf.

Type: String

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

Pattern: `arn:(aws[a-zA-Z-]*)?:iam::\d{12}:role/?[a-zA-Z_0-9+=,.\@-_/]+`

Required: Yes

ResourceQuery

The query you can use to create the tag-sync task. With this method, all resources matching the query are added to the specified application group. A ResourceQuery specifies both a query Type and a Query string as JSON string objects. For more information on defining a resource query for a tag-sync task, see the tag-based query type in [Types of resource group queries](#) in *Amazon Resource Groups User Guide*.

When using the ResourceQuery parameter, you cannot use the TagKey and TagValue parameters.

When you combine all of the elements together into a single string, any double quotes that are embedded inside another double quote pair must be escaped by preceding the embedded double quote with a backslash character (\). For example, a complete ResourceQuery parameter must be formatted like the following CLI parameter example:

```
--resource-query
'{"Type":"TAG_FILTERS_1_0","Query":{"ResourceTypeFilters":
["AWS::AllSupported"],"TagFilters":[{"Key":"Stage","Values":
["Test"]}]}'}'
```

In the preceding example, all of the double quote characters in the value part of the Query element must be escaped because the value itself is surrounded by double quotes. For more information, see [Quoting strings](#) in the *Amazon Command Line Interface User Guide*.

For the complete list of resource types that you can use in the array value for ResourceTypeFilters, see [Resources you can use with Amazon Resource Groups and Tag Editor](#) in the *Amazon Resource Groups User Guide*. For example:

```
"ResourceTypeFilters":["AWS::S3::Bucket", "AWS::EC2::Instance"]
```

Type: [ResourceQuery](#) object

Required: No

[TagKey](#)

The tag key. Resources tagged with this tag key-value pair will be added to the application. If a resource with this tag is later untagged, the tag-sync task removes the resource from the application.

When using the TagKey parameter, you must also specify the TagValue parameter. If you specify a tag key-value pair, you can't use the ResourceQuery parameter.

Type: String

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

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

Required: No

TagValue

The tag value. Resources tagged with this tag key-value pair will be added to the application. If a resource with this tag is later untagged, the tag-sync task removes the resource from the application.

When using the TagValue parameter, you must also specify the TagKey parameter. If you specify a tag key-value pair, you can't use the ResourceQuery parameter.

Type: String

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

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

Required: No

Response Syntax

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

```
{
  "GroupArn": "string",
  "GroupName": "string",
  "ResourceQuery": {
    "Query": "string",
    "Type": "string"
  },
  "RoleArn": "string",
  "TagKey": "string",
  "TagValue": "string",
  "TaskArn": "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.

GroupArn

The Amazon resource name (ARN) of the application group for which you want to add or remove resources.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

GroupName

The name of the application group to onboard and sync resources.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `[a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26}`

ResourceQuery

The query you can use to define a resource group or a search for resources. A `ResourceQuery` specifies both a query Type and a Query string as JSON string objects. See the examples section for example JSON strings. For more information about creating a resource group with a resource query, see [Build queries and groups in Amazon Resource Groups](#) in the *Amazon Resource Groups User Guide*

When you combine all of the elements together into a single string, any double quotes that are embedded inside another double quote pair must be escaped by preceding the embedded double quote with a backslash character (\). For example, a complete `ResourceQuery` parameter must be formatted like the following CLI parameter example:

```
--resource-query
'{"Type":"TAG_FILTERS_1_0","Query":{"\ResourceTypeFilters\":[
\"AWS::AllSupported\"],\"TagFilters\":{\"\Key\":"Stage\", \"Values\":[
\"Test\"]}}}'
```

In the preceding example, all of the double quote characters in the value part of the Query element must be escaped because the value itself is surrounded by double quotes. For more information, see [Quoting strings](#) in the *Amazon Command Line Interface User Guide*.

For the complete list of resource types that you can use in the array value for `ResourceTypeFilters`, see [Resources you can use with Amazon Resource Groups and Tag Editor](#) in the *Amazon Resource Groups User Guide*. For example:

```
"ResourceTypeFilters":["AWS::S3::Bucket", "AWS::EC2::Instance"]
```

Type: [ResourceQuery](#) object

[RoleArn](#)

The Amazon resource name (ARN) of the role assumed by the service to tag and untag resources on your behalf.

Type: String

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

Pattern: `arn:(aws[a-zA-Z-]*)?:iam::\d{12}:role/?[a-zA-Z_0-9+=,.\@-_/]+`

[TagKey](#)

The tag key of the tag-sync task.

Type: String

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

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

[TagValue](#)

The tag value of the tag-sync task.

Type: String

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

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

[TaskArn](#)

The Amazon resource name (ARN) of the new tag-sync task.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[\d-9]{12}:group/[a-zA-Z\d-9_\. -]{1,150}/[a-z\d-9]{26}/tag-sync-task/[a-z\d-9]{26}

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

UnauthorizedException

The request was rejected because it doesn't have valid credentials for the target resource.

HTTP Status Code: 401

See Also

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

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

Tag

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

Important

Do not store personally identifiable information (PII) or other confidential or sensitive information in tags. We use tags to provide you with billing and administration services. Tags are not intended to be used for private or sensitive data.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:Tag`

Request Syntax

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

```
{
  "Tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request uses the following URI parameters.

Arn

The Amazon resource name (ARN) of the resource group to which to add tags.

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

Required: Yes

Request Body

The request accepts the following data in JSON format.

[Tags](#)

The tags to add to the specified resource group. A tag is a string-to-string map of key-value pairs.

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

```
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

The Amazon resource name (ARN) of the tagged resource.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+):resource-groups:[a-z]{2}(-[a-z]+)-\d{1}:[\0-9]{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

Tags

The tags that have been added to the specified resource 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}_.:/+\\-@]*)$`

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

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

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example attaches two tags to the specified resource group. The first tag has a key of Department and a value of Finance, and the second has a key of Env and a value of Prod. Note that this tags only the group itself; it doesn't tag any members of the group.

The ARN in the PUT element must be [URL encoded](#).

Sample Request

```
PUT /resources/arn%3Aaws%3Aresource-groups%3Aus-west-2%3A123456789012%3Agroup%2FMyTest/
tags HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/
resource-groups.tag
X-Amz-Date: 20220120T220458Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/
resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-
token,Signature=<SIGV4-SIGNATURE>
```

Content-Length: 50

```
{
  "Tags": {
    "Department": "Finance",
    "Env": "Prod"
  }
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 20 Jan 2022 22:04:58 GMT
Content-Type: application/json
Content-Length: 114
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "Arn": "arn:aws:resource-groups:us-west-2:123456789012:group/MyTest",
  "Tags": {
    "Department": "Finance",
    "Env": "Prod"
  }
}
```

See Also

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

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

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

UngroupResources

Removes the specified resources from the specified group. This operation works only with static groups that you populated using the [GroupResources](#) operation. It doesn't work with any resource groups that are automatically populated by tag-based or Amazon CloudFormation stack-based queries.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:UngroupResources`

Request Syntax

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

{
  "Group": "string",
  "ResourceArns": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Group

The name or the Amazon resource name (ARN) of the resource group from which to remove the resources.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `[a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26}|arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:([0-9]{12}):group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

Required: Yes

ResourceArns

The Amazon resource names (ARNs) of the resources to be removed from the group.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

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

Required: Yes

Response Syntax

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

{
  "Failed": [
    {
      "ErrorCode": "string",
      "ErrorMessage": "string",
      "ResourceArn": "string"
    }
  ],
  "Pending": [
    {
      "ResourceArn": "string"
    }
  ],
  "Succeeded": [ "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.

Failed

A list of any resources that failed to be removed from the group by this operation.

Type: Array of [FailedResource](#) objects

Pending

A list of any resources that are still in the process of being removed from the group by this operation. These pending removals continue asynchronously. You can check the status of pending removals by using the [ListGroupResources](#) operation. After the resource is successfully removed, it no longer appears in the response.

Type: Array of [PendingResource](#) objects

Succeeded

A list of resources that were successfully removed from the group by this operation.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

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

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example removes two resources from the specified group.

Sample Request

```
POST /ungroup-resources HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/
resource-groups.ungroup-resources
X-Amz-Date: 20220114T205720Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/
resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-
token,Signature=<SIGV4-SIGNATURE>
Content-Length: 199
```

```
{
  "Group": "CRPGroup",
  "ResourceArns": [
    "arn:aws:ec2:us-west-2:123456789012:capacity-reservation/cr-0070b00d13EXAMPLE",
    "arn:aws:ec2:us-west-2:123456789012:capacity-reservation/cr-061abec820EXAMPLE"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Fri, 14 Jan 2022 20:57:20 GMT
Content-Type: application/json
Content-Length: 198
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "Succeeded": [
    "arn:aws:ec2:us-west-2:123456789012:capacity-reservation/cr-0070b00d13EXAMPLE",
    "arn:aws:ec2:us-west-2:123456789012:capacity-reservation/cr-061abec820EXAMPLE"
  ],
  "Failed": [],
  "Pending": []
}
```

See Also

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

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

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

Untag

Deletes tags from a specified resource group.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:Untag`

Request Syntax

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

{
  "Keys": [ "string" ]
}
```

URI Request Parameters

The request uses the following URI parameters.

Arn

The Amazon resource name (ARN) of the resource group from which to remove tags. The command removed both the specified keys and any values associated with those keys.

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[\0-9]{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

Required: Yes

Request Body

The request accepts the following data in JSON format.

Keys

The keys of the tags to be removed.

Type: Array of strings

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

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

Required: Yes

Response Syntax

```
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

The Amazon resource name (ARN) of the resource group from which tags have been removed.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+):resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[\0-9]{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

Keys

The keys of the tags that were removed.

Type: Array of strings

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

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

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example removes the tag with the key Department from the specified resource group. Note that this updates the tags on only the group itself; it doesn't touch the tags on any group members.

The ARN in the PATCH element must be [URL encoded](#).

Sample Request

```
PATCH /resources/arn%3Aaws%3Aresource-groups%3Aus-west-2%3A123456789012%3Agroup%2FMyTest/tags HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.untag
X-Amz-Date: 20220120T221301Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
Content-Length: 24

{
  "Keys": [
    "Department"
  ]
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 20 Jan 2022 22:13:01 GMT
Content-Type: application/json
Content-Length: 91
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive
```

```
{
  "Arn": "arn:aws:resource-groups:us-west-2:123456789012:group/MyTest",
  "Keys": [
    "Department"
  ]
}
```

See Also

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

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

UpdateAccountSettings

Turns on or turns off optional features in Resource Groups.

The preceding example shows that the request to turn on group lifecycle events is IN_PROGRESS. You can call the [GetAccountSettings](#) operation to check for completion by looking for GroupLifecycleEventsStatus to change to ACTIVE.

Request Syntax

```
POST /update-account-settings HTTP/1.1
Content-type: application/json

{
  "GroupLifecycleEventsDesiredStatus": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

[GroupLifecycleEventsDesiredStatus](#)

Specifies whether you want to turn [group lifecycle events](#) on or off.

You can't turn on group lifecycle events if your resource groups quota is greater than 2,000.

Type: String

Valid Values: ACTIVE | INACTIVE

Required: No

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
  "AccountSettings": {
    "GroupLifecycleEventsDesiredStatus": "string",
    "GroupLifecycleEventsStatus": "string",
    "GroupLifecycleEventsStatusMessage": "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.

AccountSettings

A structure that displays the status of the optional features in the account.

Type: [AccountSettings](#) object

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example turns on the group lifecycle events setting for the calling Amazon Web Services account:

Sample Request

```
POST /update-account-settings HTTP/1.1
Host: resource-groups.us-east-1.amazonaws.com
Accept-Encoding: identity
User-Agent: <VARIES>
X-Amz-Date: 20221213T215349Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/
resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-
token,Signature=<SIGV4-SIGNATURE>
Content-Length: 47

{
  "GroupLifecycleEventsDesiredStatus": "ACTIVE"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Tue, 13 Dec 2022 21:53:49 GMT
Content-Type: application/json
Content-Length: 109
```

```
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "AccountSettings": {
    "GroupLifecycleEventsDesiredStatus": "ACTIVE",
    "GroupLifecycleEventsStatus": "IN_PROGRESS"
  }
}
```

See Also

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

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

UpdateGroup

Updates the description for an existing group. You cannot update the name of a resource group.

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:UpdateGroup`

Request Syntax

```
POST /update-group HTTP/1.1
Content-type: application/json
```

```
{
  "Criticality": number,
  "Description": "string",
  "DisplayName": "string",
  "Group": "string",
  "GroupName": "string",
  "Owner": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Criticality

The critical rank of the application group on a scale of 1 to 10, with a rank of 1 being the most critical, and a rank of 10 being least critical.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

Description

The new description that you want to update the resource group with. Descriptions can contain letters, numbers, hyphens, underscores, periods, and spaces.

Type: String

Length Constraints: Maximum length of 1024.

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

Required: No

DisplayName

The name of the application group, which you can change at any time.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 300.

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

Required: No

Group

The name or the ARN of the resource group to update.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `[a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26}|arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[\0-9]{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

Required: No

GroupName

This parameter has been deprecated.

Don't use this parameter. Use Group instead.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}`

Required: No

Owner

A name, email address or other identifier for the person or group who is considered as the owner of this application group within your organization.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 300.

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

Required: No

Response Syntax

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

```
{
  "Group": {
    "ApplicationTag": {
      "string" : "string"
    },
    "Criticality": number,
    "Description": "string",
    "DisplayName": "string",
    "GroupArn": "string",
    "Name": "string",
    "Owner": "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

The update description of the resource group.

Type: [Group](#) object

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example adds or updates the description attached to the specified resource group.

Sample Request

```
POST /update-group HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.update-group
X-Amz-Date: 20220120T224252Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
Content-Length: 51

{
  "Group": "MyTest",
  "Description": "My Test group"
}
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 20 Jan 2022 22:42:52 GMT
Content-Type: application/json
Content-Length: 155
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "Group": {
    "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/MyTest",
    "Name": "MyTest",
```

```
    "Description": "My Test group",  
    "OwnerId": "123456789012"  
  }  
}
```

See Also

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

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

UpdateGroupQuery

Updates the resource query of a group. For more information about resource queries, see [Create a tag-based group in Resource Groups](#).

Minimum permissions

To run this command, you must have the following permissions:

- `resource-groups:UpdateGroupQuery`

Request Syntax

```
POST /update-group-query HTTP/1.1
Content-type: application/json
```

```
{
  "Group": "string",
  "GroupName": "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.

[ResourceQuery](#)

The resource query to determine which Amazon resources are members of this resource group.

Note

A resource group can contain either a Configuration or a ResourceQuery, but not both.

Type: [ResourceQuery](#) object

Required: Yes

Group

The name or the Amazon resource name (ARN) of the resource group to query.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1600.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}|arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]{12}:group/([a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26})`

Required: No

GroupName

This parameter has been deprecated.

Don't use this parameter. Use Group instead.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}`

Required: No

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](#)

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

Type: [GroupQuery](#) object

Errors

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

BadRequestException

The request includes one or more parameters that violate validation rules.

HTTP Status Code: 400

ForbiddenException

The caller isn't authorized to make the request. Check permissions.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request. Try again later.

HTTP Status Code: 500

MethodNotAllowedException

The request uses an HTTP method that isn't allowed for the specified resource.

HTTP Status Code: 405

NotFoundException

One or more of the specified resources don't exist.

HTTP Status Code: 404

TooManyRequestsException

You've exceeded throttling limits by making too many requests in a period of time.

HTTP Status Code: 429

Examples

Example

The following example updates the query of the specified resource group. A resource group query requires that you supply both a Type parameter and a Query string parameter. The Query parameter is a JSON representation of the query as a single string.

Sample Request

```
POST /update-group-query HTTP/1.1
Host: resource-groups.us-west-2.amazonaws.com
Accept-Encoding: identity
User-Agent: aws-cli/2.2.40 Python/3.8.8 Windows/10 exe/AMD64 prompt/off command/resource-groups.update-group-query
X-Amz-Date: 20220120T225422Z
X-Amz-Security-Token: <SECURITY-TOKEN>
Authorization: AWS4-HMAC-SHA256 Credential=<ACCESS-KEY>/20220113/us-west-2/resource-groups/aws4_request,SignedHeaders=host;x-amz-date;x-amz-security-token,Signature=<SIGV4-SIGNATURE>
Content-Length: 197

{
  "GroupName": "MyTest",
  "ResourceQuery": {
```



```
"Type": "TAG_FILTERS_1_0",
"Query": "{\"ResourceTypeFilters\": [\"AWS::EC2::Instance\"], \"TagFilters\": [ {\"Key\": \"Name\", \"Values\": [\"WebServers\"] } ] }\""
```

Sample Response

```
HTTP/1.1 200 OK
Date: Thu, 20 Jan 2022 22:54:23 GMT
Content-Type: application/json
Content-Length: 206
x-amzn-RequestId: <VARIES>
x-amz-apigw-id: <VARIES>
X-Amzn-Trace-Id: Root=<VARIES>
Connection: keep-alive

{
  "GroupQuery": {
    "GroupName": "MyTest",
    "ResourceQuery": {
      "Type": "TAG_FILTERS_1_0",
      "Query": "{\"ResourceTypeFilters\": [\"AWS::EC2::Instance\"], \"TagFilters\": [ {\"Key\": \"Name\", \"Values\": [\"WebServers\"] } ] }\"
    }
  }
}
```

See Also

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

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

- [Amazon SDK for Python](#)
- [Amazon SDK for Ruby V3](#)

Data Types

The Amazon 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:

- [AccountSettings](#)
- [FailedResource](#)
- [Group](#)
- [GroupConfiguration](#)
- [GroupConfigurationItem](#)
- [GroupConfigurationParameter](#)
- [GroupFilter](#)
- [GroupIdentifier](#)
- [GroupingStatusesItem](#)
- [GroupQuery](#)
- [ListGroupingStatusesFilter](#)
- [ListGroupResourcesItem](#)
- [ListTagSyncTasksFilter](#)
- [PendingResource](#)
- [QueryError](#)
- [ResourceFilter](#)
- [ResourceIdentifier](#)
- [ResourceQuery](#)
- [ResourceStatus](#)
- [TagSyncTaskItem](#)

AccountSettings

The Resource Groups settings for this Amazon Web Services account.

Contents

Note

In the following list, the required parameters are described first.

GroupLifecycleEventsDesiredStatus

The desired target status of the group lifecycle events feature. If

Type: String

Valid Values: ACTIVE | INACTIVE

Required: No

GroupLifecycleEventsStatus

The current status of the group lifecycle events feature.

Type: String

Valid Values: ACTIVE | INACTIVE | IN_PROGRESS | ERROR

Required: No

GroupLifecycleEventsStatusMessage

The text of any error message occurs during an attempt to turn group lifecycle events on or off.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

See Also

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

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

FailedResource

A resource that failed to be added to or removed from a group.

Contents

Note

In the following list, the required parameters are described first.

ErrorCode

The error code associated with the failure.

Type: String

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

Required: No

ErrorMessage

The error message text associated with the failure.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

ResourceArn

The Amazon resource name (ARN) of the resource that failed to be added or removed.

Type: String

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

Required: No

See Also

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

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

Group

A resource group that contains Amazon resources. You can assign resources to the group by associating either of the following elements with the group:

- [ResourceQuery](#) - Use a resource query to specify a set of tag keys and values. All resources in the same Amazon Region and Amazon account that have those keys with the same values are included in the group. You can add a resource query when you create the group, or later by using the [PutGroupConfiguration](#) operation.
- [GroupConfiguration](#) - Use a service configuration to associate the group with an Amazon service. The configuration specifies which resource types can be included in the group.

Contents

Note

In the following list, the required parameters are described first.

GroupArn

The Amazon resource name (ARN) of the resource group.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+):resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

Required: Yes

Name

The name of the resource group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `[a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26}`

Required: Yes

ApplicationTag

A tag that defines the application group membership. This tag is only supported for application groups.

Type: String to string map

Key Pattern: `awsApplication`

Value Length Constraints: Minimum length of 12. Maximum length of 1600.

Value Pattern: `arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]{12}:group/[a-zA-Z0-9_\.-]{1,150}/[a-zA-Z0-9]{22,26}`

Required: No

Criticality

The critical rank of the application group on a scale of 1 to 10, with a rank of 1 being the most critical, and a rank of 10 being least critical.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

Description

The description of the resource group.

Type: String

Length Constraints: Maximum length of 1024.

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

Required: No

DisplayName

The name of the application group, which you can change at any time.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 300.

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

Required: No

Owner

A name, email address or other identifier for the person or group who is considered as the owner of this application group within your organization.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 300.

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

Required: No

See Also

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

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

GroupConfiguration

A service configuration associated with a resource group. The configuration options are determined by the Amazon service that defines the Type, and specifies which resources can be included in the group. You can add a service configuration when you create the group by using [CreateGroup](#), or later by using the [PutGroupConfiguration](#) operation. For details about group service configuration syntax, see [Service configurations for resource groups](#).

Contents

Note

In the following list, the required parameters are described first.

Configuration

The configuration currently associated with the group and in effect.

Type: Array of [GroupConfigurationItem](#) objects

Array Members: Maximum number of 2 items.

Required: No

FailureReason

If present, the reason why a request to update the group configuration failed.

Type: String

Required: No

ProposedConfiguration

If present, the new configuration that is in the process of being applied to the group.

Type: Array of [GroupConfigurationItem](#) objects

Array Members: Maximum number of 2 items.

Required: No

Status

The current status of an attempt to update the group configuration.

Type: String

Valid Values: UPDATING | UPDATE_COMPLETE | UPDATE_FAILED

Required: No

See Also

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

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

GroupConfigurationItem

An item in a group configuration. A group service configuration can have one or more items. For details about group service configuration syntax, see [Service configurations for resource groups](#).

Contents

Note

In the following list, the required parameters are described first.

Type

Specifies the type of group configuration item. Each item must have a unique value for type. For the list of types that you can specify for a configuration item, see [Supported resource types and parameters](#).

Type: String

Length Constraints: Maximum length of 40.

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

Required: Yes

Parameters

A collection of parameters for this group configuration item. For the list of parameters that you can use with each configuration item type, see [Supported resource types and parameters](#).

Type: Array of [GroupConfigurationParameter](#) objects

Required: No

See Also

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

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

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

GroupConfigurationParameter

A parameter for a group configuration item. For details about group service configuration syntax, see [Service configurations for resource groups](#).

Contents

Note

In the following list, the required parameters are described first.

Name

The name of the group configuration parameter. For the list of parameters that you can use with each configuration item type, see [Supported resource types and parameters](#).

Type: String

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

Pattern: `[a-z-]+`

Required: Yes

Values

The value or values to be used for the specified parameter. For the list of values you can use with each parameter, see [Supported resource types and parameters](#).

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: No

See Also

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

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

GroupFilter

A filter collection that you can use to restrict the results from a `List` operation to only those you want to include.

Contents

Note

In the following list, the required parameters are described first.

Name

The name of the filter. Filter names are case-sensitive.

Type: String

Valid Values: `resource-type` | `configuration-type` | `owner` | `display-name` | `criticality`

Required: Yes

Values

One or more filter values. Allowed filter values vary by group filter name, and are case-sensitive.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `AWS:: (AllSupported|[a-zA-Z0-9]+::[a-zA-Z0-9]+) | [\s\p{L}0-9_\.\-]*`

Required: Yes

See Also

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

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

GroupIdentifier

The unique identifiers for a resource group.

Contents

Note

In the following list, the required parameters are described first.

Criticality

The critical rank of the application group on a scale of 1 to 10, with a rank of 1 being the most critical, and a rank of 10 being least critical.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

Description

The description of the application group.

Type: String

Length Constraints: Maximum length of 1024.

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

Required: No

DisplayName

The name of the application group, which you can change at any time.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 300.

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

Required: No

GroupArn

The Amazon resource name (ARN) of the resource group.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[\0-9]{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

Required: No

GroupName

The name of the resource group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `[a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26}`

Required: No

Owner

A name, email address or other identifier for the person or group who is considered as the owner of this group within your organization.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 300.

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

Required: No

See Also

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

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

GroupingStatusesItem

The information about a grouping or ungrouping resource action.

Contents

Note

In the following list, the required parameters are described first.

Action

Describes the resource grouping action with values of GROUP or UNGROUP.

Type: String

Valid Values: GROUP | UNGROUP

Required: No

ErrorCode

Specifies the error code that was raised.

Type: String

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

Required: No

ErrorMessage

A message that explains the ErrorCode.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

ResourceArn

The Amazon resource name (ARN) of a resource.

Type: String

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

Required: No

Status

Describes the resource grouping status with values of SUCCESS, FAILED, IN_PROGRESS, or SKIPPED.

Type: String

Valid Values: SUCCESS | FAILED | IN_PROGRESS | SKIPPED

Required: No

UpdatedAt

A timestamp of when the status was last updated.

Type: Timestamp

Required: No

See Also

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

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

GroupQuery

A mapping of a query attached to a resource group that determines the Amazon resources that are members of the group.

Contents

Note

In the following list, the required parameters are described first.

GroupName

The name of the resource group that is associated with the specified resource query.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `[a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26}`

Required: Yes

ResourceQuery

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

Type: [ResourceQuery](#) object

Required: Yes

See Also

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

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

- [Amazon SDK for Ruby V3](#)

ListGroupingStatusesFilter

A filter name and value pair that is used to obtain more specific results from the list of grouping statuses.

Contents

Note

In the following list, the required parameters are described first.

Name

The name of the filter. Filter names are case-sensitive.

Type: String

Valid Values: `status` | `resource-arn`

Required: Yes

Values

One or more filter values. Allowed filter values vary by resource filter name, and are case-sensitive.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Pattern: `SUCCESS|FAILED|IN_PROGRESS|SKIPPED|arn:aws(-[a-z]+)*:[a-z0-9\-*:([a-z]{2}(-[a-z]+)+-\d{1})?:([0-9]{12})?:.+`

Required: Yes

See Also

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

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

ListGroupResourcesItem

A structure returned by the [ListGroupResources](#) operation that contains identity and group membership status information for one of the resources in the group.

Contents

Note

In the following list, the required parameters are described first.

Identifier

A structure that contains the ARN of a resource and its resource type.

Type: [ResourceIdentifier](#) object

Required: No

Status

A structure that contains the status of this resource's membership in the group.

Note

This field is present in the response only if the group is of type `AWS::EC2::HostManagement`.

Type: [ResourceStatus](#) object

Required: No

See Also

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

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

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

ListTagSyncTasksFilter

Returns tag-sync tasks filtered by the Amazon resource name (ARN) or name of a specified application group.

Contents

Note

In the following list, the required parameters are described first.

GroupArn

The Amazon resource name (ARN) of the application group.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)-\d{1}:[\0-9]{12}:group/([a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26})`

Required: No

GroupName

The name of the application group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `[a-zA-Z0-9_\.-]{1,300}|[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26}`

Required: No

See Also

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

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

PendingResource

A structure that identifies a resource that is currently pending addition to the group as a member. Adding a resource to a resource group happens asynchronously as a background task and this one isn't completed yet.

Contents

Note

In the following list, the required parameters are described first.

ResourceArn

The Amazon resource name (ARN) of the resource that's in a pending state.

Type: String

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

Required: No

See Also

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

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

QueryError

A two-part error structure that can occur in `ListGroupResources` or `SearchResources`.

Contents

Note

In the following list, the required parameters are described first.

ErrorCode

Specifies the error code that was raised.

Type: String

Valid Values: `CLOUDFORMATION_STACK_INACTIVE` |
`CLOUDFORMATION_STACK_NOT_EXISTING` |
`CLOUDFORMATION_STACK_UNASSUMABLE_ROLE` | `RESOURCE_TYPE_NOT_SUPPORTED`

Required: No

Message

A message that explains the `ErrorCode`.

Type: String

Required: No

See Also

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

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

ResourceFilter

A filter name and value pair that is used to obtain more specific results from a list of resources.

Contents

Note

In the following list, the required parameters are described first.

Name

The name of the filter. Filter names are case-sensitive.

Type: String

Valid Values: `resource-type`

Required: Yes

Values

One or more filter values. Allowed filter values vary by resource filter name, and are case-sensitive.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 5 items.

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

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

Required: Yes

See Also

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

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

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

ResourceIdentifier

A structure that contains the ARN of a resource and its resource type.

Contents

Note

In the following list, the required parameters are described first.

ResourceArn

The Amazon resource name (ARN) of a resource.

Type: String

Pattern: `arn:aws(-[a-z]+)*:[a-z0-9\-*:]{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 Amazon SDKs, see the following:

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

ResourceQuery

The query you can use to define a resource group or a search for resources. A `ResourceQuery` specifies both a query `Type` and a `Query` string as JSON string objects. See the examples section for example JSON strings. For more information about creating a resource group with a resource query, see [Build queries and groups in Amazon Resource Groups](#) in the *Amazon Resource Groups User Guide*.

When you combine all of the elements together into a single string, any double quotes that are embedded inside another double quote pair must be escaped by preceding the embedded double quote with a backslash character (`\`). For example, a complete `ResourceQuery` parameter must be formatted like the following CLI parameter example:

```
--resource-query '{"Type":"TAG_FILTERS_1_0","Query":{"ResourceTypeFilters\n":["AWS::AllSupported"],\n"TagFilters":{"Key":"Stage","Values":\n["Test"]}}}'
```

In the preceding example, all of the double quote characters in the value part of the `Query` element must be escaped because the value itself is surrounded by double quotes. For more information, see [Quoting strings](#) in the *Amazon Command Line Interface User Guide*.

For the complete list of resource types that you can use in the array value for `ResourceTypeFilters`, see [Resources you can use with Amazon Resource Groups and Tag Editor](#) in the *Amazon Resource Groups User Guide*. For example:

```
"ResourceTypeFilters":["AWS::S3::Bucket", "AWS::EC2::Instance"]
```

Contents

Note

In the following list, the required parameters are described first.

Query

The query that defines a group or a search. The contents depends on the value of the `Type` element.

- **ResourceTypeFilters** – Applies to all ResourceQuery objects of either Type. This element contains one of the following two items:
 - The value `AWS::AllSupported`. This causes the ResourceQuery to match resources of any resource type that also match the query.
 - A list (a JSON array) of resource type identifiers that limit the query to only resources of the specified types. For the complete list of resource types that you can use in the array value for **ResourceTypeFilters**, see [Resources you can use with Amazon Resource Groups and Tag Editor](#) in the *Amazon Resource Groups User Guide*.

Example: `"ResourceTypeFilters": ["AWS::AllSupported"]` or
`"ResourceTypeFilters": ["AWS::EC2::Instance", "AWS::S3::Bucket"]`

- **TagFilters** – applicable only if `Type = TAG_FILTERS_1_0`. The Query contains a JSON string that represents a collection of simple tag filters. The JSON string uses a syntax similar to the [GetResources](#) operation, but uses only the [ResourceTypeFilters](#) and [TagFilters](#) fields. If you specify more than one tag key, only resources that match all tag keys, and at least one value of each specified tag key, are returned in your query. If you specify more than one value for a tag key, a resource matches the filter if it has a tag key value that matches *any* of the specified values.

For example, consider the following sample query for resources that have two tags, `Stage` and `Version`, with two values each:

```
[{"Stage":["Test","Deploy"]}, {"Version":["1","2"]}]]
```

The results of this resource query could include the following.

- An Amazon EC2 instance that has the following two tags: `{"Stage":"Deploy"}`, and `{"Version":"2"}`
- An S3 bucket that has the following two tags: `{"Stage":"Test"}`, and `{"Version":"1"}`

The resource query results would *not* include the following items in the results, however.

- An Amazon EC2 instance that has only the following tag: `{"Stage":"Deploy"}`.

The instance does not have **all** of the tag keys specified in the filter, so it is excluded from the results.

- An RDS database that has the following two tags: `{"Stage":"Archived"}` and `{"Version":"4"}`

The database has all of the tag keys, but none of those keys has an associated value that matches at least one of the specified values in the filter.

Example: "TagFilters": [{ "Key": "Stage", "Values": ["Gamma", "Beta"] }]

- `StackIdentifier` – applicable only if `Type = CLOUDFORMATION_STACK_1_0`. The value of this parameter is the Amazon Resource Name (ARN) of the Amazon CloudFormation stack whose resources you want included in the group.

Type: String

Length Constraints: Maximum length of 4096.

Pattern: `[\s\S]*`

Required: Yes

Type

The type of the query to perform. This can have one of two values:

- `CLOUDFORMATION_STACK_1_0`: Specifies that you want the group to contain the members of an Amazon CloudFormation stack. The Query contains a `StackIdentifier` element with an Amazon resource name (ARN) for a CloudFormation stack.
- `TAG_FILTERS_1_0`: Specifies that you want the group to include resource that have tags that match the query.

Type: String

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

Pattern: `^\w+$`

Valid Values: `TAG_FILTERS_1_0` | `CLOUDFORMATION_STACK_1_0`

Required: Yes

See Also

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

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

ResourceStatus

A structure that identifies the current group membership status for a resource. Adding a resource to a resource group is performed asynchronously as a background task. A PENDING status indicates, for this resource, that the process isn't completed yet.

Contents

Note

In the following list, the required parameters are described first.

Name

The current status.

Type: String

Valid Values: PENDING

Required: No

See Also

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

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

TagSyncTaskItem

The Amazon resource name (ARN) of the tag-sync task.

Contents

Note

In the following list, the required parameters are described first.

CreatedAt

The timestamp of when the tag-sync task was created.

Type: Timestamp

Required: No

ErrorMessage

The specific error message in cases where the tag-sync task status is `Error`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

GroupArn

The Amazon resource name (ARN) of the application group.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[\0-9]{12}:group/([a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26})`

Required: No

GroupName

The name of the application group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 300.

Pattern: `[a-zA-Z0-9_\. -]{1,300}|[a-zA-Z0-9_\. -]{1,150}/[a-z0-9]{26}`

Required: No

ResourceQuery

The query you can use to define a resource group or a search for resources. A `ResourceQuery` specifies both a query Type and a Query string as JSON string objects. See the examples section for example JSON strings. For more information about creating a resource group with a resource query, see [Build queries and groups in Amazon Resource Groups](#) in the *Amazon Resource Groups User Guide*

When you combine all of the elements together into a single string, any double quotes that are embedded inside another double quote pair must be escaped by preceding the embedded double quote with a backslash character (`\`). For example, a complete `ResourceQuery` parameter must be formatted like the following CLI parameter example:

```
--resource-query  
'{"Type":"TAG_FILTERS_1_0","Query":{"ResourceTypeFilters":  
["AWS::AllSupported"],"TagFilters":[{"Key":"Stage","Values":  
["Test"]}]}'
```

In the preceding example, all of the double quote characters in the value part of the Query element must be escaped because the value itself is surrounded by double quotes. For more information, see [Quoting strings](#) in the *Amazon Command Line Interface User Guide*.

For the complete list of resource types that you can use in the array value for `ResourceTypeFilters`, see [Resources you can use with Amazon Resource Groups and Tag Editor](#) in the *Amazon Resource Groups User Guide*. For example:

```
"ResourceTypeFilters":["AWS::S3::Bucket", "AWS::EC2::Instance"]
```

Type: [ResourceQuery](#) object

Required: No

RoleArn

The Amazon resource name (ARN) of the role assumed by the service to tag and untag resources on your behalf.

Type: String

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

Pattern: `arn:(aws[a-zA-Z-]*)?:iam::\d{12}:role/?[a-zA-Z_0-9+=,.\@\-_/\]+`

Required: No

Status

The status of the tag-sync task.

Valid values include:

- **ACTIVE** - The tag-sync task is actively managing resources in the application by adding or removing the `awsApplication` tag from resources when they are tagged or untagged with the specified tag key-value pair.
- **ERROR** - The tag-sync task is not actively managing resources in the application. Review the `ErrorMessage` for more information about resolving the error.

Type: String

Valid Values: `ACTIVE` | `ERROR`

Required: No

TagKey

The tag key.

Type: String

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

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

Required: No

TagValue

The tag value.

Type: String

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

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

Required: No

TaskArn

The Amazon resource name (ARN) of the tag-sync task.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 1600.

Pattern: `arn:aws(-[a-z]+)*:resource-groups:[a-z]{2}(-[a-z]+)+-\d{1}:[0-9]{12}:group/[a-zA-Z0-9_\.-]{1,150}/[a-z0-9]{26}/tag-sync-task/[a-z0-9]{26}`

Required: No

See Also

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

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

Making API requests

Query requests for the Amazon Resource Groups are HTTP or HTTPS requests that use an HTTP verb such as GET or POST.

Resource Groups endpoints

An *endpoint* is a URL that serves as an entry point for a web service. You can select an appropriate Amazon Web Services Region endpoint when you make your requests to reduce latency. For information about the endpoints used by Resource Groups, see [Amazon Resource Groups](#) in the *Amazon Web Services General Reference*.

Query parameters

Each query request must include some common parameters to handle authentication and selection of an action. For more information, see [Common Parameters](#).

Some API operations take lists of parameters. These lists are specified using the following notation:

```
param.member.n
```

Values of *n* are integers starting from 1. All lists of parameters must follow this notation, including lists that contain only one parameter. A query parameter list looks like the following example.

```
&attribute.member.1=this  
&attribute.member.2=that
```

Request identifiers

In every response from an Amazon Query API, there is a `ResponseMetadata` element, which contains a `RequestId` element. This string is a unique identifier that Amazon assigns to provide tracking information. Although `RequestId` is included as part of every response, it isn't listed on the individual API documentation pages to improve readability and to reduce redundancy.

Query API authentication

You can send query requests over either HTTP or HTTPS. Regardless of which protocol you use, you must include a signature in every query request. For more information about creating and including a signature, see [Signing Amazon API Requests](#) in the *Amazon Web Services General Reference*.

Available libraries

Amazon provides libraries, sample code, tutorials, and other resources for software developers who prefer to build applications using language-specific APIs instead of the command-line tools and Query API. These libraries provide basic functions (not included in the APIs), such as request authentication, request retries, and error handling so that it's easier to get started. Resource Groups libraries and resources are available for the following languages and platforms:

- [Amazon SDK for Go](#)
- [Amazon SDK for Java 2.x](#)
- [Amazon SDK for Java 1.x](#)
- [Amazon SDK for JavaScript](#)
- [Amazon SDK for JavaScript in Node.js](#)
- [Amazon SDK for .NET](#)
- [Amazon SDK for PHP](#)
- [Amazon SDK for Python \(Boto\)](#)
- [Amazon SDK for Ruby](#)
- [Amazon SDK for Rust](#)

For more information about libraries and sample code in all languages, see [Sample Code & Libraries](#).

Making API requests using the POST method

If you don't use one of the Amazon SDKs, you can make Resource Groups requests over HTTP using the POST request method. The POST method requires that you specify the operation in the header of the request and provide the data for the operation in JSON format in the body of the request.

Header name	Header value
Host	The Amazon Resource Groups endpoint. For example: <code>tagging.us-east-1.amazonaws.com.cn</code>
X-Amz-Date	You must provide the timestamp in either the HTTP Date header or the Amazon <i>x-amz-date</i> header. Some HTTP client libraries don't let you set the Date header. When an <i>x-amz-date</i> header is present, the system ignores any Date header during the request authentication. The <i>x-amz-date</i> header must be specified in ISO 8601 basic format. For example: <code>20130315T092054Z</code>
Authorization	The set of authorization parameters that Amazon uses to ensure the validity and authenticity of the request. For more information about constructing this header, see Signature Version 4 Signing Process in the <i>Amazon Web Services General Reference</i> .
X-Amz-Target	Specifies the Resource Groups namespace and version, and the operation that you want to perform. <code>ResourceGroupsTaggingAPI_20170126.</code> <i>API_Name</i>  Note For the Resource Groups, always use the version 20170126. For example, to call the <code>GetTagValues</code> operation, use the following target value. <code>ResourceGroupsTaggingAPI_20170126.GetTagValues</code>
Content-Type	Specifies the input format. Use the following value. <code>application/json</code>
Accept	Specifies the response format. Use the following value.

Header name	Header value
	application/json
Content-Length	Size of the payload in bytes.
Content-Encoding	Specifies the encoding format of the input and output. Use the following value. amz-1.0

The following is an example header for an HTTP request to create a resource group that includes all resources that are tagged Stage=Test. In this example, the Authorization line is word-wrapped here for easier reading. Don't word wrap it in your actual request.

```
POST / HTTP/1.1
Host: resource-groups.us-east-1.amazonaws.com.cn
X-Amz-Date: 20180112T092034Z
Accept-Encoding: identity
Authorization: AWS4-HMAC-SHA256 Credential=REDACTED/20220113/us-west-2/resource-groups/
aws4_request,
    SignedHeaders=content-encoding;content-length;content-type;host;x-amz-date;x-
amz-target,
    Signature=EXAMPLE5cb91f88f1EXAMPLEa02d3af93dEXAMPLE91e5d03588EXAMPLE88ff1d
Content-Type: application/json
Accept: application/json
Content-Length: 283

{
  "Description": "Resources created for the testing stage.",
  "Name": "QueryGroup",
  "ResourceQuery": {
    "Query": "{\"ResourceTypeFilters\":[\"AWS::AllSupported\"],\"TagFilters\":[{\"Key\":\"Stage\",\"Values\":[\"Test\"]}]}",
    "Type": "TAG_FILTERS_1_0"
  },
  "Tags": {"Department": "Finance"}
}
```

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 Amazon 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 Amazon 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 Amazon 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 Amazon Security Token Service (Amazon STS). For a list of services that support temporary security credentials from Amazon STS, see [Amazon Web Services services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from Amazon 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 Amazon 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 Amazon services. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to Amazon standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400