
AWS Resource Groups

Welcome

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AWS Resource Groups: Welcome

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Welcome

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

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

For more information about Resource Groups, see the [AWS Resource Groups User Guide](#).

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

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

This document was last published on June 13, 2019.

Actions

The following actions are supported:

- [CreateGroup](#) (p. 3)
- [DeleteGroup](#) (p. 7)
- [GetGroup](#) (p. 10)
- [GetGroupQuery](#) (p. 13)
- [GetTags](#) (p. 16)
- [ListGroupResources](#) (p. 19)
- [ListGroups](#) (p. 23)
- [SearchResources](#) (p. 26)
- [Tag](#) (p. 30)
- [Untag](#) (p. 33)
- [UpdateGroup](#) (p. 36)
- [UpdateGroupQuery](#) (p. 39)

CreateGroup

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

Request Syntax

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

{
  "Description": "string",
  "Name": "string",
  "ResourceQuery": {
    "Query": "string",
    "Type": "string"
  },
  "Tags": {
    "string" : "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

Description (p. 3)

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

Type: String

Length Constraints: Maximum length of 512.

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

Required: No

Name (p. 3)

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

Type: String

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

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

Required: Yes

ResourceQuery (p. 3)

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

Type: [ResourceQuery \(p. 50\)](#) object

Required: Yes

Tags (p. 3)

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

Type: String to string map

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

Key Pattern: `^[a-zA-Z0-9_./+=\-*]$`

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

Value Pattern: `^[a-zA-Z0-9_./+=\-*]$`

Required: No

Response Syntax

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

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

Response Elements

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

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

Group (p. 4)

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

Type: [Group \(p. 43\)](#) object

ResourceQuery (p. 4)

The resource query associated with the group.

Type: [ResourceQuery \(p. 50\)](#) object

Tags (p. 4)

The tags associated with the group.

Type: String to string map

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

Key Pattern: `^[a-zA-Z0-9_./+=\-\@]*$`

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

Value Pattern: `^[a-zA-Z0-9_./+=\-\@]*$`

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 54\)](#).

BadRequestException

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

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

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

HTTP Status Code: 405

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

Example

Sample Request

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

{
  "Description": "Resources created for the testing and production phases.",
  "Name": "TestGroup",
  "ResourceQuery": {
```

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

Sample Response

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

{
  "Group": {
    "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/TestGroup",
    "Name": "TestGroup"
  },
  "ResourceQuery": {
    "Query": "{ \"ResourceTypeFilters\": [ \"AWS::AllSupported\" ], \"TagFilters\": [ { \"Key\": \"Stage\", \"Values\": [ \"Test\", \"Prod\" ] } ] }",
    "Type": "TAG_FILTERS_1_0"
  },
  "Tags": {
    "Department" : "Finance"
  }
}
```

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
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DeleteGroup

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

Request Syntax

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

URI Request Parameters

The request requires the following URI parameters.

GroupName (p. 7)

The name of the resource group to delete.

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

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

Request Body

The request does not have a request body.

Response Syntax

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

{
  "Group": {
    "Description": "string",
    "GroupArn": "string",
    "Name": "string"
  }
}
```

Response Elements

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

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

Group (p. 7)

A full description of the deleted resource group.

Type: [Group \(p. 43\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 54\)](#).

BadRequestException

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

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

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

HTTP Status Code: 405

NotFoundException

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

HTTP Status Code: 404

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

Example

Sample Request

```
DELETE /groups/TestGroup HTTP/1.1
```

Sample Response

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

{
  "Group": {
    "Description": "Resources used in testing stage of development",
    "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/TestGroup",
    "Name": "TestGroup"
  }
}
```

See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

GetGroup

Returns information about a specified resource group.

Request Syntax

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

URI Request Parameters

The request requires the following URI parameters.

GroupName (p. 10)

The name of the resource group.

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

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

Request Body

The request does not have a request body.

Response Syntax

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

{
  "Group": {
    "Description": "string",
    "GroupArn": "string",
    "Name": "string"
  }
}
```

Response Elements

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

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

Group (p. 10)

A full description of the resource group.

Type: [Group \(p. 43\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 54\)](#).

BadRequestException

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

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

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

HTTP Status Code: 405

NotFoundException

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

HTTP Status Code: 404

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

Example

Sample Request

```
GET /groups/TestGroup HTTP/1.1
```

Sample Response

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

{
  "Group": {
    "Description": "Resources used in testing stage of development",
    "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/TestGroup",
    "Name": "TestGroup"
  }
}
```

See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

GetGroupQuery

Returns the resource query associated with the specified resource group.

Request Syntax

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

URI Request Parameters

The request requires the following URI parameters.

GroupName (p. 13)

The name of the resource group.

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

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

Request Body

The request does not have a request body.

Response Syntax

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

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

Response Elements

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

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

GroupQuery (p. 13)

The resource query associated with the specified group.

Type: [GroupQuery \(p. 46\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 54\)](#).

BadRequestException

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

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

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

HTTP Status Code: 405

NotFoundException

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

HTTP Status Code: 404

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

Example

Sample Request

```
GET /groups/TestGroup/query HTTP/1.1
```

Sample Response

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

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

See Also

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

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

GetTags

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

Request Syntax

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

URI Request Parameters

The request requires the following URI parameters.

Arn (p. 16)

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

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

Request Body

The request does not have a request body.

Response Syntax

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

{
  "Arn": "string",
  "Tags": {
    "string" : "string"
  }
}
```

Response Elements

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

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

Arn (p. 16)

The ARN of the tagged resource group.

Type: String

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

Tags (p. 16)

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 \(p. 54\)](#).

BadRequestException

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

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

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

HTTP Status Code: 405

NotFoundException

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

HTTP Status Code: 404

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

Example

Sample Request

```
GET /resources/arn:aws:resource-groups:us-west-2:123456789012:group/TestGroup/tags HTTP/1.1
```

Sample Response

```
HTTP/1.1 200
```

```
Content-type: application/json
```

```
{  
  "Arn": "arn:aws:resource-groups:us-west-2:123456789012:group/TestGroup",  
  "Tags": {  
    "Stage" : "Test"  
  }  
}
```

See Also

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

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

ListGroupResources

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

Request Syntax

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

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

URI Request Parameters

The request requires the following URI parameters.

GroupName (p. 19)

The name of the resource group.

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

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

MaxResults (p. 19)

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

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

NextToken (p. 19)

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

Request Body

The request accepts the following data in JSON format.

Filters (p. 19)

Filters, formatted as ResourceFilter objects, that you want to apply to a ListGroupResources operation.

- `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`.

Type: Array of [ResourceFilter \(p. 48\)](#) objects

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 (p. 20)

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

Type: String

QueryErrors (p. 20)

A list of `QueryError` objects. Each error is an object that contains `ErrorCode` and `Message` structures. Possible values for `ErrorCode` are `CLOUDFORMATION_STACK_INACTIVE` and `CLOUDFORMATION_STACK_NOT_EXISTING`.

Type: Array of [QueryError \(p. 47\)](#) objects

ResourceIdentifiers (p. 20)

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

Type: Array of [ResourceIdentifier \(p. 49\)](#) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 54\)](#).

BadRequestException

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

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

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

HTTP Status Code: 405

NotFoundException

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

HTTP Status Code: 404

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

UnauthorizedException

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

HTTP Status Code: 401

Example

Sample Request

```
POST /groups/TestGroup/resource-identifiers-list?
maxResults=50&nextToken=eyJNYXJrZXIiOiBudWxsLCAiYm90b190cnVuY2F0ZV9hbW91bnQiOiAxfQ==
HTTP/1.1
Content-type: application/json

{
  "Filters": [
    {
      "Name": "resource-type",
      "Values": [ "AWS::EC2::Instance", "AWS::RDS::DBInstance" ]
    }
  ]
}
```

Sample Response

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

{
  "NextToken": "eyJNYXJrZXIiOiBudWxsLCAiYm90b190cnVuY2F0ZV9hbW91bnQiOiAxfQ==",
  "ResourceIdentifiers": [
    {
      "ResourceArn": "arn:aws:ec2:us-west-2:123456789012:instance/*",
      "ResourceType": "AWS::EC2::Instance"
    }
  ]
}
```

```
    },  
    {  
      "ResourceArn": "arn:aws:ec2:us-west-2:123456789000:instance/*",  
      "ResourceType": "AWS::EC2::Instance"  
    },  
    {  
      "ResourceArn": "arn:aws:rds:us-west-2:123456789012:db:mysql-db-instance1",  
      "ResourceType": "AWS::RDS::DBInstance"  
    }  
  ]  
}
```

See Also

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

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

ListGroups

Returns a list of existing resource groups in your account.

Request Syntax

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

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

URI Request Parameters

The request requires the following URI parameters.

MaxResults (p. 23)

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

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

NextToken (p. 23)

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

Request Body

The request accepts the following data in JSON format.

Filters (p. 23)

Filters, formatted as GroupFilter objects, that you want to apply to a ListGroups operation.

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

Type: Array of [GroupFilter \(p. 44\)](#) objects

Required: No

Response Syntax

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

{
```

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

Response Elements

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

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

GroupIdentifiers (p. 23)

A list of GroupIdentifier objects. Each identifier is an object that contains both the GroupName and the GroupArn.

Type: Array of [GroupIdentifier \(p. 45\)](#) objects

Groups (p. 23)

This parameter has been deprecated.

A list of resource groups.

Type: Array of [Group \(p. 43\)](#) objects

NextToken (p. 23)

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

Type: String

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 54\)](#).

BadRequestException

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

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

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

HTTP Status Code: 405

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

Example

Sample Request

```
POST /groups-list?
maxResults=25&nextToken=NeyJNYXJrZXIiOiBudWxsLCAiYm90b190cnVuY2F0ZV9hbW91bnQiOiAxZjQ==
HTTP/1.1
```

Sample Response

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

{
  "Groups": [
    {
      "Description": "Resources used in testing and production stage of development",
      "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/TestGroup",
      "Name": "TestGroup"
    }
  ],
  "NextToken": "eyJNYXJrZXIiOiBudWxsLCAiYm90b190cnVuY2F0ZV9hbW91bnQiOiAxZjQ=="
}
```

See Also

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

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

SearchResources

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

Request Syntax

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

{
  "MaxResults": number,
  "NextToken": "string",
  "ResourceQuery": {
    "Query": "string",
    "Type": "string"
  }
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

MaxResults (p. 26)

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

Type: Integer

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

Required: No

NextToken (p. 26)

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

Type: String

Required: No

ResourceQuery (p. 26)

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

Type: [ResourceQuery \(p. 50\)](#) object

Required: Yes

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 (p. 26)

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

Type: String

QueryErrors (p. 26)

A list of `QueryError` objects. Each error is an object that contains `ErrorCode` and `Message` structures. Possible values for `ErrorCode` are `CLOUDFORMATION_STACK_INACTIVE` and `CLOUDFORMATION_STACK_NOT_EXISTING`.

Type: Array of `QueryError` (p. 47) objects

ResourceIdentifiers (p. 26)

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

Type: Array of `ResourceIdentifier` (p. 49) objects

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 54\)](#).

BadRequestException

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

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

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

HTTP Status Code: 405

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

UnauthorizedException

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

HTTP Status Code: 401

Example

Sample Request

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

{
  "MaxResults": 25,
  "NextToken": "eyJNYXJrZXIiOiBudWxsLCAiYm90b190cnVuY2F0ZV9hbW91bnQiOiAxfQ==",
  "ResourceQuery": {
    "Query": "{\"ResourceTypeFilters\": [\"AWS::AllSupported\"], \"TagFilters\": [{\"Key\": \"Stage\", \"Values\": [\"Test\", \"Prod\"]}]}",
    "Type": "TAG_FILTERS_1_0"
  }
}
```

Sample Response

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

{
  "NextToken": "eyJNYXJrZXIiOiBudWxsLCAiYm90b190cnVuY2F0ZV9hbW91bnQiOiAxfQ==",
  "ResourceIdentifiers": [
    {
      "ResourceArn": "arn:aws:ec2:us-west-2:123456789012:instance/*",
      "ResourceType": "instance"
    },
    {
      "ResourceArn": "arn:aws:ec2:us-west-2:123456789000:instance/*",
      "ResourceType": "instance"
    },
    {
      "ResourceArn": "arn:aws:rds:us-west-2:123456789012:db:mysql-db-instance1",
      "ResourceType": "db-instance"
    }
  ]
}
```

See Also

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

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

Tag

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

Request Syntax

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

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

URI Request Parameters

The request requires the following URI parameters.

Arn (p. 30)

The ARN of the resource group to which to add tags.

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

Request Body

The request accepts the following data in JSON format.

Tags (p. 30)

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

Type: String to string map

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

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

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

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

Required: 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 (p. 30)

The ARN of the tagged resource.

Type: String

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

Tags (p. 30)

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 \(p. 54\)](#).

BadRequestException

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

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

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

HTTP Status Code: 405

NotFoundException

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

HTTP Status Code: 404

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

Example

Sample Request

```
PUT /resources/arn:aws:ec2:us-west-2:123456789012:group/*/tags HTTP/1.1
Content-type: application/json

{
  "Tags": {
    "Department" : "Finance"
  }
}
```

Sample Response

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

{
  "Arn": "arn:aws:ec2:us-west-2:123456789012:group/*",
  "Tags": {
    "Department" : "Finance"
  }
}
```

See Also

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

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

Untag

Deletes tags from a specified resource group.

Request Syntax

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

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

URI Request Parameters

The request requires the following URI parameters.

Arn (p. 33)

The ARN of the resource group from which to remove tags.

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

Request Body

The request accepts the following data in JSON format.

Keys (p. 33)

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 (p. 33)

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

Type: String

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

Keys (p. 33)

The keys of tags that have been 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 \(p. 54\)](#).

BadRequestException

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

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

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

HTTP Status Code: 405

NotFoundException

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

HTTP Status Code: 404

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

Example

Sample Request

```
PATCH /resources/arn:aws:ec2:us-west-2:123456789012:group/*/tags HTTP/1.1
```

```
Content-type: application/json
```

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

Sample Response

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

```
{  
  "Arn": "arn:aws:ec2:us-west-2:123456789012:group",  
  "Keys": [ "Department" ]  
}
```

See Also

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

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

UpdateGroup

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

Request Syntax

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

{
  "Description": "string"
}
```

URI Request Parameters

The request requires the following URI parameters.

GroupName (p. 36)

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

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

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

Request Body

The request accepts the following data in JSON format.

Description (p. 36)

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

Type: String

Length Constraints: Maximum length of 512.

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

Required: No

Response Syntax

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

{
  "Group": {
    "Description": "string",
    "GroupArn": "string",
    "Name": "string"
  }
}
```

```
}
```

Response Elements

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

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

Group (p. 36)

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

Type: [Group \(p. 43\)](#) object

Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 54\)](#).

BadRequestException

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

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

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

HTTP Status Code: 405

NotFoundException

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

HTTP Status Code: 404

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

Example

Sample Request

```
PUT /groups/TestGroup HTTP/1.1
```

```
Content-type: application/json
```

```
{  
  "Description": "Resources used in QA and production stages of development."  
}
```

Sample Response

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

```
{  
  "Group": {  
    "Description": "Resources used in QA and production stages of development.",  
    "GroupArn": "arn:aws:resource-groups:us-west-2:123456789012:group/TestGroup",  
    "Name": "TestGroup"  
  }  
}
```

See Also

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

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

UpdateGroupQuery

Updates the resource query of a group.

Request Syntax

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

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

URI Request Parameters

The request requires the following URI parameters.

GroupName (p. 39)

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

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

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

Request Body

The request accepts the following data in JSON format.

ResourceQuery (p. 39)

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

Type: [ResourceQuery \(p. 50\)](#) object

Required: Yes

Response Syntax

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

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

Response Elements

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

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

GroupQuery (p. 39)

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

Type: [GroupQuery](#) (p. 46) object

Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 54).

BadRequestException

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

HTTP Status Code: 400

ForbiddenException

The caller is not authorized to make the request.

HTTP Status Code: 403

InternalServerErrorException

An internal error occurred while processing the request.

HTTP Status Code: 500

MethodNotAllowedException

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

HTTP Status Code: 405

NotFoundException

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

HTTP Status Code: 404

TooManyRequestsException

The caller has exceeded throttling limits.

HTTP Status Code: 429

Example

Sample Request

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

```
{
  "ResourceQuery": {
    "Query": "{\"ResourceTypeFilters\":[\"AWS::EC2::Instance\"],\"TagFilters\":[{\"Key\":\n\"Stage\", \"Values\":[\"Test\", \"Archive\"]}]}\",
    "Type": "TAG_FILTERS_1_0"
  }
}
```

Sample Response

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

{
  "GroupQuery": {
    "GroupName": "TestGroup",
    "ResourceQuery": {
      "Query": "{\"ResourceTypeFilters\":[\"AWS::EC2::Instance\"],\"TagFilters\":[{\"Key\n\": \"Stage\", \"Values\":[\"Test\", \"Archive\"]}]}\",
      "Type": "TAG_FILTERS_1_0"
    }
  }
}
```

See Also

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

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

Data Types

The AWS Resource Groups API contains several data types that various actions use. This section describes each data type in detail.

Note

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [Group](#) (p. 43)
- [GroupFilter](#) (p. 44)
- [GroupIdentifier](#) (p. 45)
- [GroupQuery](#) (p. 46)
- [QueryError](#) (p. 47)
- [ResourceFilter](#) (p. 48)
- [ResourceIdentifier](#) (p. 49)
- [ResourceQuery](#) (p. 50)

Group

A resource group.

Contents

Description

The description of the resource group.

Type: String

Length Constraints: Maximum length of 512.

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

Required: No

GroupArn

The ARN of a resource group.

Type: String

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

Required: Yes

Name

The name of a resource group.

Type: String

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

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

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

GroupFilter

A filter name and value pair that is used to obtain more specific results from a list of groups.

Contents

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 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 128.

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

GroupIdentifier

The ARN and group name of a group.

Contents

GroupArn

The ARN of a resource group.

Type: String

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

Required: No

GroupName

The name of a resource group.

Type: String

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

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

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

GroupQuery

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

Contents

GroupName

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

Type: String

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

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

Required: Yes

ResourceQuery

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

Type: [ResourceQuery \(p. 50\)](#) object

Required: Yes

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

QueryError

A two-part error structure that can occur in `ListGroupResources` or `SearchResources` operations on CloudFormation stack-based queries. The error occurs if the CloudFormation stack on which the query is based either does not exist, or has a status that renders the stack inactive. A `QueryError` occurrence does not necessarily mean that AWS Resource Groups could not complete the operation, but the resulting group might have no member resources.

Contents

ErrorCode

Possible values are `CLOUDFORMATION_STACK_INACTIVE` and `CLOUDFORMATION_STACK_NOT_EXISTING`.

Type: String

Valid Values: `CLOUDFORMATION_STACK_INACTIVE` | `CLOUDFORMATION_STACK_NOT_EXISTING`

Required: No

Message

A message that explains the `ErrorCode` value. Messages might state that the specified CloudFormation stack does not exist (or no longer exists). For `CLOUDFORMATION_STACK_INACTIVE`, the message typically states that the CloudFormation stack has a status that is not (or no longer) active, such as `CREATE_FAILED`.

Type: String

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ResourceFilter

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

Contents

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 AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ResourceIdentifier

The ARN of a resource, and its resource type.

Contents

ResourceArn

The ARN of a resource.

Type: String

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

Required: No

ResourceType

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

Type: String

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

Required: No

See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

ResourceQuery

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

Contents

Query

The query that defines a group or a search.

Type: String

Length Constraints: Maximum length of 2048.

Required: Yes

Type

The type of the query. The valid values in this release are `TAG_FILTERS_1_0` and `CLOUDFORMATION_STACK_1_0`.

TAG_FILTERS_1_0: A JSON syntax that lets you specify a collection of simple tag filters for resource types and tags, as supported by the AWS Tagging API [GetResources](#) operation. 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. (`[{"Key": "Stage", "Values": ["Test", "Deploy"]}, {"Key": "Version", "Values": ["1", "2"]}])` The results of this query might include the following.

- An EC2 instance that has the following two tags: `{"Key": "Stage", "Value": "Deploy"}`, and `{"Key": "Version", "Value": "2"}`
- An S3 bucket that has the following two tags: `{"Key": "Stage", "Value": "Test"}`, and `{"Key": "Version", "Value": "1"}`

The query would not return the following results, however. The following EC2 instance does not have all tag keys specified in the filter, so it is rejected. The RDS database has all of the tag keys, but no values that match at least one of the specified tag key values in the filter.

- An EC2 instance that has only the following tag: `{"Key": "Stage", "Value": "Deploy"}`.
- An RDS database that has the following two tags: `{"Key": "Stage", "Value": "Archived"}`, and `{"Key": "Version", "Value": "4"}`

CLOUDFORMATION_STACK_1_0: A JSON syntax that lets you specify a CloudFormation stack ARN.

Type: String

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 AWS SDKs, see the following:

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

- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

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

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

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

HTTP Status Code: 400

InvalidQueryParameter

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

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400