AWS RAM

API Reference

API Version 2018-01-04

AWS RAM: API Reference

Table of Contents

Welcome

This is the *AWS Resource Access Manager API Reference*. This documentation provides descriptions and syntax for each of the actions and data types in AWS RAM. AWS RAM is a service that helps you securely share your AWS resources across AWS accounts and within your organization or organizational units (OUs) in AWS Organizations. For supported resource types, you can also share resources with IAM roles and IAM users. If you have multiple AWS accounts, you can use AWS RAM to share those resources with other accounts.

To learn more about AWS RAM, see the following resources:

- AWS Resource Access Manager product page
- AWS Resource Access Manager User Guide

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Actions

The following actions are supported:

AcceptResourceShareInvitation

Accepts an invitation to a resource share from another AWS account.

Request Syntax

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

{
   "clientToken": "string",
   "resourceShareInvitationArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken (p. 3)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

Required: No

resourceShareInvitationArn (p. 3)

The Amazon Resource Name (ARN) of the invitation.

Type: String

Required: Yes

Response Syntax

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

{
   "clientToken": "string",
   "resourceShareInvitation": {
      "invitationTimestamp": number,
      "receiverAccountId": "string",
      "receiverArn": "string",
      "resourceShareArn": "string",
      "resourceShareAssociations": [
         {
            "associatedEntity": "string",
            "associationType": "string",
            "creationTime": number,
            "external": boolean,
            "lastUpdatedTime": number,
```

```
            "resourceShareArn": "string",
            "resourceShareName": "string",
            "status": "string",
            "statusMessage": "string"
        }
    ],
    "resourceShareInvitationArn": "string",
    "resourceShareName": "string",
    "senderAccountId": "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.

clientToken (p. 3)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

resourceShareInvitation (p. 3)

Information about the invitation.

Type: ResourceShareInvitation (p. 87) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

IdempotentParameterMismatchException

A client token input parameter was reused with an operation, but at least one of the other input parameters is different from the previous call to the operation.

HTTP Status Code: 400

InvalidClientTokenException

A client token is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ResourceShareInvitationAlreadyAcceptedException

The invitation was already accepted.

HTTP Status Code: 400

ResourceShareInvitationAlreadyRejectedException

The invitation was already rejected.

HTTP Status Code: 400

ResourceShareInvitationArnNotFoundException

The Amazon Resource Name (ARN) for an invitation was not found.

HTTP Status Code: 400

ResourceShareInvitationExpiredException

The invitation is expired.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

See Also

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

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

AssociateResourceShare

Associates the specified resource share with the specified principals and resources.

Request Syntax

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

{
    "clientToken": "string",
    "principals": [ "string" ],
    "resourceArns": [ "string" ],
    "resourceShareArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken (p. 6)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

Required: No

principals (p. 6)

The principals to associate with the resource share. The possible values are:

- An AWS account ID
- An Amazon Resource Name (ARN) of an organization in AWS Organizations
- An ARN of an organizational unit (OU) in AWS Organizations
- An ARN of an IAM role
- An ARN of an IAM user

    Note
    Not all resource types can be shared with IAM roles and IAM users. For more information,
    see Sharing with IAM roles and IAM users in the *AWS Resource Access Manager User Guide*.

Type: Array of strings

Required: No

resourceArns (p. 6)

The Amazon Resource Names (ARNs) of the resources.

Type: Array of strings

Required: No

resourceShareArn (p. 6)

The Amazon Resource Name (ARN) of the resource share.

Type: String

Required: Yes

Response Syntax

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

{
   "clientToken": "string",
   "resourceShareAssociations": [
      {
         "associatedEntity": "string",
         "associationType": "string",
         "creationTime": number,
         "external": boolean,
         "lastUpdatedTime": number,
         "resourceShareArn": "string",
         "resourceShareName": "string",
         "status": "string",
         "statusMessage": "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.

clientToken (p. 7)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

resourceShareAssociations (p. 7)

Information about the associations.

Type: Array of ResourceShareAssociation (p. 85) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

IdempotentParameterMismatchException

A client token input parameter was reused with an operation, but at least one of the other input parameters is different from the previous call to the operation.

HTTP Status Code: 400

InvalidClientTokenException

A client token is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

InvalidStateTransitionException

The requested state transition is not valid.

HTTP Status Code: 400

InvalidStateTransitionException

The requested state transition is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ResourceShareLimitExceededException

The requested resource share exceeds the limit for your account.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

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

AssociateResourceSharePermission

Associates a permission with a resource share.

Request Syntax

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

{
    "clientToken": "string",
    "permissionArn": "string",
    "permissionVersion": number,
    "replace": boolean,
    "resourceShareArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken (p. 10)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

Required: No

permissionArn (p. 10)

The Amazon Resource Name (ARN) of the AWS RAM permission to associate with the resource share.

Type: String

Required: Yes

permissionVersion (p. 10)

The version of the AWS RAM permissions to associate with the resource share.

Type: Integer

Required: No

replace (p. 10)

Indicates whether the permission should replace the permissions that are currently associated with the resource share. Use `true` to replace the current permissions. Use `false` to add the permission to the current permission.

Type: Boolean

Required: No

resourceShareArn (p. 10)

The Amazon Resource Name (ARN) of the resource share.

Type: String

Required: Yes

Response Syntax

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

{
   "clientToken": "string",
   "returnValue": boolean
}
```

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.

clientToken (p. 11)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

returnValue (p. 11)

Indicates whether the request succeeded.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidClientTokenException

A client token is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

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

CreateResourceShare

Creates a resource share. You must provide a list of the Amazon Resource Names (ARNs) for the resources you want to share. You must also specify who you want to share the resources with, and the permissions that you grant them.

> **Note**
> Sharing a resource makes it available for use by principals outside of the AWS account that created the resource. Sharing doesn't change any permissions or quotas that apply to the resource in the account that created it.

Request Syntax

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

{
   "allowExternalPrincipals": boolean,
   "clientToken": "string",
   "name": "string",
   "permissionArns": [ "string" ],
   "principals": [ "string" ],
   "resourceArns": [ "string" ],
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

allowExternalPrincipals (p. 13)

Indicates whether principals outside your organization in AWS Organizations can be associated with a resource share.

Type: Boolean

Required: No

clientToken (p. 13)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

Required: No

name (p. 13)

The name of the resource share.

Type: String

Required: Yes

permissionArns (p. 13)

The Amazon Resource Names (ARNs) of the permissions to associate with the resource share. If you do not specify an ARN for the permission, AWS RAM automatically attaches the default version of the permission for each resource type. Only one permission can be associated with each resource type in a resource share.

Type: Array of strings

Required: No

principals (p. 13)

The principals to associate with the resource share. The possible values are:

- An AWS account ID
- An Amazon Resource Name (ARN) of an organization in AWS Organizations
- An ARN of an organizational unit (OU) in AWS Organizations
- An ARN of an IAM role
- An ARN of an IAM user

    Note
    Not all resource types can be shared with IAM roles and IAM users. For more information, see Sharing with IAM roles and IAM users in the *AWS Resource Access Manager User Guide*.

Type: Array of strings

Required: No

resourceArns (p. 13)

The ARNs of the resources to associate with the resource share.

Type: Array of strings

Required: No

tags (p. 13)

One or more tags.

Type: Array of Tag (p. 94) objects

Required: No

Response Syntax

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

{
   "clientToken": "string",
   "resourceShare": {
      "allowExternalPrincipals": boolean,
      "creationTime": number,
      "featureSet": "string",
      "lastUpdatedTime": number,
      "name": "string",
```

```
        "owningAccountId": "string",
        "resourceShareArn": "string",
        "status": "string",
        "statusMessage": "string",
        "tags": [
           {
              "key": "string",
              "value": "string"
           }
        ]
     }
}
```

Response Elements

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

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

clientToken (p. 14)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

resourceShare (p. 14)

Information about the resource share.

Type: ResourceShare (p. 83) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

IdempotentParameterMismatchException

A client token input parameter was reused with an operation, but at least one of the other input parameters is different from the previous call to the operation.

HTTP Status Code: 400

InvalidClientTokenException

A client token is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

InvalidStateTransitionException

The requested state transition is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ResourceShareLimitExceededException

The requested resource share exceeds the limit for your account.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

TagPolicyViolationException

The specified tag is a reserved word and cannot be used.

HTTP Status Code: 400

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

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

DeleteResourceShare

Deletes the specified resource share.

Request Syntax

```
DELETE /deleteresourceshare?clientToken=clientToken&resourceShareArn=resourceShareArn
 HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

clientToken (p. 17)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

resourceShareArn (p. 17)

The Amazon Resource Name (ARN) of the resource share.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "clientToken": "string",
    "returnValue": boolean
}
```

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.

clientToken (p. 17)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

returnValue (p. 17)

Indicates whether the request succeeded.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

IdempotentParameterMismatchException

A client token input parameter was reused with an operation, but at least one of the other input parameters is different from the previous call to the operation.

HTTP Status Code: 400

InvalidClientTokenException

A client token is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

InvalidStateTransitionException

The requested state transition is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface

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

DisassociateResourceShare

Disassociates the specified principals or resources from the specified resource share.

Request Syntax

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

{
   "clientToken": "string",
   "principals": [ "string" ],
   "resourceArns": [ "string" ],
   "resourceShareArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken (p. 20)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

Required: No

principals (p. 20)

The principals.

Type: Array of strings

Required: No

resourceArns (p. 20)

The Amazon Resource Names (ARNs) of the resources.

Type: Array of strings

Required: No

resourceShareArn (p. 20)

The Amazon Resource Name (ARN) of the resource share.

Type: String

Required: Yes

Response Syntax

```
HTTP/1.1 200
```

```
Content-type: application/json

{
   "clientToken": "string",
   "resourceShareAssociations": [
      {
         "associatedEntity": "string",
         "associationType": "string",
         "creationTime": number,
         "external": boolean,
         "lastUpdatedTime": number,
         "resourceShareArn": "string",
         "resourceShareName": "string",
         "status": "string",
         "statusMessage": "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.

clientToken (p. 20)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

resourceShareAssociations (p. 20)

Information about the associations.

Type: Array of ResourceShareAssociation (p. 85) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

IdempotentParameterMismatchException

A client token input parameter was reused with an operation, but at least one of the other input parameters is different from the previous call to the operation.

HTTP Status Code: 400

InvalidClientTokenException

A client token is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

InvalidStateTransitionException

The requested state transition is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ResourceShareLimitExceededException

The requested resource share exceeds the limit for your account.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

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

DisassociateResourceSharePermission

Disassociates an AWS RAM permission from a resource share.

Request Syntax

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

{
    "clientToken": "string",
    "permissionArn": "string",
    "resourceShareArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken (p. 23)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

Required: No

permissionArn (p. 23)

The Amazon Resource Name (ARN) of the permission to disassociate from the resource share.

Type: String

Required: Yes

resourceShareArn (p. 23)

The Amazon Resource Name (ARN) of the resource share.

Type: String

Required: Yes

Response Syntax

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

{
    "clientToken": "string",
    "returnValue": boolean
}
```

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.

clientToken (p. 23)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

returnValue (p. 23)

Indicates whether the request succeeded.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidClientTokenException

A client token is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

InvalidStateTransitionException

The requested state transition is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

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

EnableSharingWithAwsOrganization

Enables resource sharing within your organization in AWS Organizations.

The caller must be the master account for the organization.

Request Syntax

```
POST /enablesharingwithawsorganization 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

{
    "returnValue": boolean
}
```

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.

returnValue (p. 26)

Indicates whether the request succeeded.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

See Also

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

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- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetPermission

Gets the contents of an AWS RAM permission in JSON format.

Request Syntax

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

{
    "permissionArn": "string",
    "permissionVersion": number
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

permissionArn (p. 28)

> The Amazon Resource Name (ARN) of the permission.
>
> Type: String
>
> Required: Yes

permissionVersion (p. 28)

> The identifier for the version of the permission.
>
> Type: Integer
>
> Required: No

Response Syntax

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

{
    "permission": {
        "arn": "string",
        "creationTime": number,
        "defaultVersion": boolean,
        "isResourceTypeDefault": boolean,
        "lastUpdatedTime": number,
        "name": "string",
        "permission": "string",
        "resourceType": "string",
        "version": "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.

permission (p. 28)

> Information about the permission.
>
> Type: ResourceSharePermissionDetail (p. 89) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidParameterException

> A parameter is not valid.
>
> HTTP Status Code: 400

MalformedArnException

> The format of an Amazon Resource Name (ARN) is not valid.
>
> HTTP Status Code: 400

OperationNotPermittedException

> The requested operation is not permitted.
>
> HTTP Status Code: 400

ServerInternalException

> The service could not respond to the request due to an internal problem.
>
> HTTP Status Code: 500

ServiceUnavailableException

> The service is not available.
>
> HTTP Status Code: 503

UnknownResourceException

> A specified resource was not found.
>
> HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
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- AWS SDK for JavaScript
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

GetResourcePolicies

Gets the policies for the specified resources that you own and have shared.

Request Syntax

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

{
   "maxResults": number,
   "nextToken": "string",
   "principal": "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.

maxResults (p. 31)

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 500.

Required: No

nextToken (p. 31)

The token for the next page of results.

Type: String

Required: No

principal (p. 31)

The principal.

Type: String

Required: No

resourceArns (p. 31)

The Amazon Resource Names (ARNs) of the resources.

Type: Array of strings

Required: Yes

Response Syntax

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

{
    "nextToken": "string",
    "policies": [ "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. 32)

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

policies (p. 32)

A key policy document, in JSON format.

Type: Array of strings

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidNextTokenException

The specified value for NextToken is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

ResourceArnNotFoundException

An Amazon Resource Name (ARN) was not found.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

See Also

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

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

GetResourceShareAssociations

Gets the resources or principals for the resource shares that you own.

Request Syntax

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

{
    "associationStatus": "string",
    "associationType": "string",
    "maxResults": number,
    "nextToken": "string",
    "principal": "string",
    "resourceArn": "string",
    "resourceShareArns": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

associationStatus (p. 34)

>   The association status.

>   Type: String

>   Valid Values: `ASSOCIATING | ASSOCIATED | FAILED | DISASSOCIATING | DISASSOCIATED`

>   Required: No

associationType (p. 34)

>   The association type. Specify `PRINCIPAL` to list the principals that are associated with the specified resource share. Specify `RESOURCE` to list the resources that are associated with the specified resource share.

>   Type: String

>   Valid Values: `PRINCIPAL | RESOURCE`

>   Required: Yes

maxResults (p. 34)

>   The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

>   Type: Integer

>   Valid Range: Minimum value of 1. Maximum value of 500.

Required: No

nextToken (p. 34)

The token for the next page of results.

Type: String

Required: No

principal (p. 34)

The principal. You cannot specify this parameter if the association type is `RESOURCE`.

Type: String

Required: No

resourceArn (p. 34)

The Amazon Resource Name (ARN) of the resource. You cannot specify this parameter if the association type is `PRINCIPAL`.

Type: String

Required: No

resourceShareArns (p. 34)

The Amazon Resource Names (ARN) of the resource shares.

Type: Array of strings

Required: No

Response Syntax

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

{
    "nextToken": "string",
    "resourceShareAssociations": [
        {
            "associatedEntity": "string",
            "associationType": "string",
            "creationTime": number,
            "external": boolean,
            "lastUpdatedTime": number,
            "resourceShareArn": "string",
            "resourceShareName": "string",
            "status": "string",
            "statusMessage": "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. 35)

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

resourceShareAssociations (p. 35)

Information about the associations.

Type: Array of ResourceShareAssociation (p. 85) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidNextTokenException

The specified value for NextToken is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

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

GetResourceShareInvitations

Gets the invitations that you have received for resource shares.

Request Syntax

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

{
   "maxResults": number,
   "nextToken": "string",
   "resourceShareArns": [ "string" ],
   "resourceShareInvitationArns": [ "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. 38)

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 500.

Required: No

nextToken (p. 38)

The token for the next page of results.

Type: String

Required: No

resourceShareArns (p. 38)

The Amazon Resource Names (ARN) of the resource shares.

Type: Array of strings

Required: No

resourceShareInvitationArns (p. 38)

The Amazon Resource Names (ARN) of the invitations.

Type: Array of strings

Required: No

Response Syntax

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

{
   "nextToken": "string",
   "resourceShareInvitations": [
      {
         "invitationTimestamp": number,
         "receiverAccountId": "string",
         "receiverArn": "string",
         "resourceShareArn": "string",
         "resourceShareAssociations": [
            {
               "associatedEntity": "string",
               "associationType": "string",
               "creationTime": number,
               "external": boolean,
               "lastUpdatedTime": number,
               "resourceShareArn": "string",
               "resourceShareName": "string",
               "status": "string",
               "statusMessage": "string"
            }
         ],
         "resourceShareInvitationArn": "string",
         "resourceShareName": "string",
         "senderAccountId": "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.

nextToken (p. 39)

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

resourceShareInvitations (p. 39)

Information about the invitations.

Type: Array of ResourceShareInvitation (p. 87) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidMaxResultsException

The specified value for MaxResults is not valid.

HTTP Status Code: 400

InvalidNextTokenException

The specified value for NextToken is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

ResourceShareInvitationArnNotFoundException

The Amazon Resource Name (ARN) for an invitation was not found.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

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

GetResourceShares

Gets the resource shares that you own or the resource shares that are shared with you.

Request Syntax

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

{
   "maxResults": number,
   "name": "string",
   "nextToken": "string",
   "permissionArn": "string",
   "resourceOwner": "string",
   "resourceShareArns": [ "string" ],
   "resourceShareStatus": "string",
   "tagFilters": [
      {
         "tagKey": "string",
         "tagValues": [ "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. 41)

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 500.

Required: No

name (p. 41)

The name of the resource share.

Type: String

Required: No

nextToken (p. 41)

The token for the next page of results.

Type: String

Required: No

permissionArn (p. 41)

The Amazon Resource Name (ARN) of the AWS RAM permission that is associated with the resource share.

Type: String

Required: No

resourceOwner (p. 41)

The type of owner.

Type: String

Valid Values: `SELF | OTHER-ACCOUNTS`

Required: Yes

resourceShareArns (p. 41)

The Amazon Resource Names (ARNs) of the resource shares.

Type: Array of strings

Required: No

resourceShareStatus (p. 41)

The status of the resource share.

Type: String

Valid Values: `PENDING | ACTIVE | FAILED | DELETING | DELETED`

Required: No

tagFilters (p. 41)

One or more tag filters.

Type: Array of TagFilter (p. 95) objects

Required: No

Response Syntax

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

{
   "nextToken": "string",
   "resourceShares": [
      {
         "allowExternalPrincipals": boolean,
         "creationTime": number,
         "featureSet": "string",
         "lastUpdatedTime": number,
         "name": "string",
         "owningAccountId": "string",
         "resourceShareArn": "string",
         "status": "string",
         "statusMessage": "string",
```

```
        "tags": [
            {
                "key": "string",
                "value": "string"
            }
        ]
    }
    ]
}
```

Response Elements

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

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

nextToken (p. 42)

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

resourceShares (p. 42)

Information about the resource shares.

Type: Array of ResourceShare (p. 83) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidNextTokenException

The specified value for NextToken is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

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

ListPendingInvitationResources

Lists the resources in a resource share that is shared with you but that the invitation is still pending for.

Request Syntax

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

{
   "maxResults": number,
   "nextToken": "string",
   "resourceShareInvitationArn": "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. 45)

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 500.

Required: No

nextToken (p. 45)

The token for the next page of results.

Type: String

Required: No

resourceShareInvitationArn (p. 45)

The Amazon Resource Name (ARN) of the invitation.

Type: String

Required: Yes

Response Syntax

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

{
```

```
    "nextToken": "string",
    "resources": [
        {
            "arn": "string",
            "creationTime": number,
            "lastUpdatedTime": number,
            "resourceGroupArn": "string",
            "resourceShareArn": "string",
            "status": "string",
            "statusMessage": "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.

nextToken (p. 45)

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

resources (p. 45)

Information about the resources included the resource share.

Type: Array of Resource (p. 81) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidNextTokenException

The specified value for NextToken is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

MissingRequiredParameterException

A required input parameter is missing.

HTTP Status Code: 400

ResourceShareInvitationAlreadyRejectedException

The invitation was already rejected.

HTTP Status Code: 400

ResourceShareInvitationArnNotFoundException

The Amazon Resource Name (ARN) for an invitation was not found.

HTTP Status Code: 400

ResourceShareInvitationExpiredException

The invitation is expired.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

See Also

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

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

ListPermissions

Lists the AWS RAM permissions.

Request Syntax

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

{
   "maxResults": number,
   "nextToken": "string",
   "resourceType": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults (p. 48)

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 500.

Required: No

nextToken (p. 48)

The token for the next page of results.

Type: String

Required: No

resourceType (p. 48)

Specifies the resource type for which to list permissions. For example, to list only permissions that apply to EC2 subnets, specify `ec2:Subnet`.

Type: String

Required: No

Response Syntax

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

{
```

```
    "nextToken": "string",
    "permissions": [
        {
            "arn": "string",
            "creationTime": number,
            "defaultVersion": boolean,
            "isResourceTypeDefault": boolean,
            "lastUpdatedTime": number,
            "name": "string",
            "resourceType": "string",
            "status": "string",
            "version": "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. 48)

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

permissions (p. 48)

Information about the permissions.

Type: Array of ResourceSharePermissionSummary (p. 91) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidNextTokenException

The specified value for NextToken is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

See Also

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

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

ListPrincipals

Lists the principals that you have shared resources with or that have shared resources with you.

Request Syntax

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

{
   "maxResults": number,
   "nextToken": "string",
   "principals": [ "string" ],
   "resourceArn": "string",
   "resourceOwner": "string",
   "resourceShareArns": [ "string" ],
   "resourceType": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults (p. 51)

> The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.
>
> Type: Integer
>
> Valid Range: Minimum value of 1. Maximum value of 500.
>
> Required: No

nextToken (p. 51)

> The token for the next page of results.
>
> Type: String
>
> Required: No

principals (p. 51)

> The principals.
>
> Type: Array of strings
>
> Required: No

resourceArn (p. 51)

> The Amazon Resource Name (ARN) of the resource.
>
> Type: String

Required: No

resourceOwner (p. 51)

The type of owner.

Type: String

Valid Values: `SELF | OTHER-ACCOUNTS`

Required: Yes

resourceShareArns (p. 51)

The Amazon Resource Names (ARN) of the resource shares.

Type: Array of strings

Required: No

resourceType (p. 51)

The resource type.

Valid values: `acm-pca:CertificateAuthority` | `appmesh:Mesh` | `codebuild:Project`
| `codebuild:ReportGroup` | `ec2:CapacityReservation` | `ec2:DedicatedHost`
| `ec2:LocalGatewayRouteTable` | `ec2:PrefixList` | `ec2:Subnet` |
`ec2:TrafficMirrorTarget` | `ec2:TransitGateway` | `imagebuilder:Component` |
`imagebuilder:Image` | `imagebuilder:ImageRecipe` | `imagebuilder:ContainerRecipe` |
`glue:Catalog` | `glue:Database` | `glue:Table` | `license-manager:LicenseConfiguration`
| `network-firewall:FirewallPolicy` | `network-firewall:StatefulRuleGroup`
| `network-firewall:StatelessRuleGroup` | `outposts:Outpost` | `resource-
groups:Group` | `rds:Cluster` | `route53resolver:FirewallRuleGroup`
| `route53resolver:ResolverQueryLogConfig` | `route53resolver:ResolverRule` | `s3-
outposts:Outpost` | `ssm-contacts:Contact` | `ssm-incidents:ResponsePlan`

Type: String

Required: No

Response Syntax

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

{
   "nextToken": "string",
   "principals": [
      {
         "creationTime": number,
         "external": boolean,
         "id": "string",
         "lastUpdatedTime": number,
         "resourceShareArn": "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. 52)

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

principals (p. 52)

The principals.

Type: Array of Principal (p. 80) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidNextTokenException

The specified value for NextToken is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++

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

ListResources

Lists the resources that you added to a resource shares or the resources that are shared with you.

Request Syntax

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

{
    "maxResults": number,
    "nextToken": "string",
    "principal": "string",
    "resourceArns": [ "string" ],
    "resourceOwner": "string",
    "resourceShareArns": [ "string" ],
    "resourceType": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

maxResults (p. 55)

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 500.

Required: No

nextToken (p. 55)

The token for the next page of results.

Type: String

Required: No

principal (p. 55)

The principal.

Type: String

Required: No

resourceArns (p. 55)

The Amazon Resource Names (ARNs) of the resources.

Type: Array of strings

Required: No

resourceOwner (p. 55)

The type of owner.

Type: String

Valid Values: `SELF | OTHER-ACCOUNTS`

Required: Yes

resourceShareArns (p. 55)

The Amazon Resource Names (ARN) of the resource shares.

Type: Array of strings

Required: No

resourceType (p. 55)

The resource type.

Valid values: `acm-pca:CertificateAuthority | appmesh:Mesh | codebuild:Project | codebuild:ReportGroup | ec2:CapacityReservation | ec2:DedicatedHost | ec2:LocalGatewayRouteTable | ec2:PrefixList | ec2:Subnet | ec2:TrafficMirrorTarget | ec2:TransitGateway | imagebuilder:Component | imagebuilder:Image | imagebuilder:ImageRecipe | imagebuilder:ContainerRecipe | glue:Catalog | glue:Database | glue:Table | license-manager:LicenseConfiguration | network-firewall:FirewallPolicy | network-firewall:StatefulRuleGroup | network-firewall:StatelessRuleGroup | outposts:Outpost | resource-groups:Group | rds:Cluster | route53resolver:FirewallRuleGroup |route53resolver:ResolverQueryLogConfig | route53resolver:ResolverRule | s3-outposts:Outpost | ssm-contacts:Contact | ssm-incidents:ResponsePlan`

Type: String

Required: No

Response Syntax

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

{
   "nextToken": "string",
   "resources": [
      {
         "arn": "string",
         "creationTime": number,
         "lastUpdatedTime": number,
         "resourceGroupArn": "string",
         "resourceShareArn": "string",
         "status": "string",
         "statusMessage": "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.

nextToken (p. 56)

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

resources (p. 56)

Information about the resources.

Type: Array of Resource (p. 81) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidNextTokenException

The specified value for NextToken is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

InvalidResourceTypeException

The specified resource type is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

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

ListResourceSharePermissions

Lists the AWS RAM permissions that are associated with a resource share.

Request Syntax

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

{
    "maxResults": number,
    "nextToken": "string",
    "resourceShareArn": "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. 59)

> The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.
>
> Type: Integer
>
> Valid Range: Minimum value of 1. Maximum value of 500.
>
> Required: No

nextToken (p. 59)

> The token for the next page of results.
>
> Type: String
>
> Required: No

resourceShareArn (p. 59)

> The Amazon Resource Name (ARN) of the resource share.
>
> Type: String
>
> Required: Yes

Response Syntax

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

{
```

```
      "nextToken": "string",
      "permissions": [
         {
            "arn": "string",
            "creationTime": number,
            "defaultVersion": boolean,
            "isResourceTypeDefault": boolean,
            "lastUpdatedTime": number,
            "name": "string",
            "resourceType": "string",
            "status": "string",
            "version": "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. 59)

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

permissions (p. 59)

The permissions associated with the resource share.

Type: Array of ResourceSharePermissionSummary (p. 91) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidNextTokenException

The specified value for NextToken is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

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

ListResourceTypes

Lists the shareable resource types supported by AWS RAM.

Request Syntax

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

{
    "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.

maxResults (p. 62)

The maximum number of results to return with a single call. To retrieve the remaining results, make another call with the returned `nextToken` value.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 500.

Required: No

nextToken (p. 62)

The token for the next page of results.

Type: String

Required: No

Response Syntax

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

{
    "nextToken": "string",
    "resourceTypes": [
        {
            "resourceType": "string",
            "serviceName": "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. 62)

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

resourceTypes (p. 62)

The shareable resource types supported by AWS RAM.

Type: Array of ServiceNameAndResourceType (p. 93) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidNextTokenException

The specified value for NextToken is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

See Also

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

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

- AWS SDK for Python
- AWS SDK for Ruby V3

PromoteResourceShareCreatedFromPolicy

Resource shares that were created by attaching a policy to a resource are visible only to the resource share owner, and the resource share cannot be modified in AWS RAM.

Use this API action to promote the resource share. When you promote the resource share, it becomes:

- Visible to all principals that it is shared with.
- Modifiable in AWS RAM.

Request Syntax

```
POST /promoteresourcesharecreatedfrompolicy?resourceShareArn=resourceShareArn HTTP/1.1
```

URI Request Parameters

The request uses the following URI parameters.

resourceShareArn (p. 65)

The Amazon Resource Name (ARN) of the resource share to promote.

Required: Yes

Request Body

The request does not have a request body.

Response Syntax

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

{
    "returnValue": boolean
}
```

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.

returnValue (p. 65)

Indicates whether the request succeeded.

Type: Boolean

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

MissingRequiredParameterException

A required input parameter is missing.

HTTP Status Code: 400

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ResourceShareLimitExceededException

The requested resource share exceeds the limit for your account.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

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

RejectResourceShareInvitation

Rejects an invitation to a resource share from another AWS account.

Request Syntax

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

{
    "clientToken": "string",
    "resourceShareInvitationArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

clientToken (p. 68)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

Required: No

resourceShareInvitationArn (p. 68)

The Amazon Resource Name (ARN) of the invitation.

Type: String

Required: Yes

Response Syntax

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

{
    "clientToken": "string",
    "resourceShareInvitation": {
        "invitationTimestamp": number,
        "receiverAccountId": "string",
        "receiverArn": "string",
        "resourceShareArn": "string",
        "resourceShareAssociations": [
            {
                "associatedEntity": "string",
                "associationType": "string",
                "creationTime": number,
                "external": boolean,
                "lastUpdatedTime": number,
```

```
            "resourceShareArn": "string",
            "resourceShareName": "string",
            "status": "string",
            "statusMessage": "string"
        }
    ],
    "resourceShareInvitationArn": "string",
    "resourceShareName": "string",
    "senderAccountId": "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.

clientToken (p. 68)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

resourceShareInvitation (p. 68)

Information about the invitation.

Type: ResourceShareInvitation (p. 87) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

IdempotentParameterMismatchException

A client token input parameter was reused with an operation, but at least one of the other input parameters is different from the previous call to the operation.

HTTP Status Code: 400

InvalidClientTokenException

A client token is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ResourceShareInvitationAlreadyAcceptedException

The invitation was already accepted.

HTTP Status Code: 400

ResourceShareInvitationAlreadyRejectedException

The invitation was already rejected.

HTTP Status Code: 400

ResourceShareInvitationArnNotFoundException

The Amazon Resource Name (ARN) for an invitation was not found.

HTTP Status Code: 400

ResourceShareInvitationExpiredException

The invitation is expired.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

See Also

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

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

TagResource

Adds the specified tags to the specified resource share that you own.

Request Syntax

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

{
   "resourceShareArn": "string",
   "tags": [
      {
         "key": "string",
         "value": "string"
      }
   ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

resourceShareArn (p. 71)

> The Amazon Resource Name (ARN) of the resource share.
>
> Type: String
>
> Required: Yes

tags (p. 71)

> One or more tags.
>
> Type: Array of Tag (p. 94) objects
>
> 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 (p. 98).

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

ResourceArnNotFoundException

An Amazon Resource Name (ARN) was not found.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

TagLimitExceededException

The requested tags exceed the limit for your account.

HTTP Status Code: 400

TagPolicyViolationException

The specified tag is a reserved word and cannot be used.

HTTP Status Code: 400

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

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

UntagResource

Removes the specified tags from the specified resource share that you own.

Request Syntax

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

{
   "resourceShareArn": "string",
   "tagKeys": [ "string" ]
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

resourceShareArn (p. 74)

> The Amazon Resource Name (ARN) of the resource share.
>
> Type: String
>
> Required: Yes

tagKeys (p. 74)

> The tag keys of the tags to remove.
>
> Type: Array of strings
>
> 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 (p. 98).

InvalidParameterException

> A parameter is not valid.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

See Also

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

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

UpdateResourceShare

Updates the specified resource share that you own.

Request Syntax

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

{
   "allowExternalPrincipals": boolean,
   "clientToken": "string",
   "name": "string",
   "resourceShareArn": "string"
}
```

URI Request Parameters

The request does not use any URI parameters.

Request Body

The request accepts the following data in JSON format.

allowExternalPrincipals (p. 76)

Indicates whether principals outside your organization in AWS Organizations can be associated with a resource share.

Type: Boolean

Required: No

clientToken (p. 76)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

Required: No

name (p. 76)

The name of the resource share.

Type: String

Required: No

resourceShareArn (p. 76)

The Amazon Resource Name (ARN) of the resource share.

Type: String

Required: Yes

Response Syntax

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

{
   "clientToken": "string",
   "resourceShare": {
      "allowExternalPrincipals": boolean,
      "creationTime": number,
      "featureSet": "string",
      "lastUpdatedTime": number,
      "name": "string",
      "owningAccountId": "string",
      "resourceShareArn": "string",
      "status": "string",
      "statusMessage": "string",
      "tags": [
         {
            "key": "string",
            "value": "string"
         }
      ]
   }
}
```

Response Elements

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

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

clientToken (p. 77)

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request.

Type: String

resourceShare (p. 77)

Information about the resource share.

Type: ResourceShare (p. 83) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 98).

IdempotentParameterMismatchException

A client token input parameter was reused with an operation, but at least one of the other input parameters is different from the previous call to the operation.

HTTP Status Code: 400

InvalidClientTokenException

A client token is not valid.

HTTP Status Code: 400

InvalidParameterException

A parameter is not valid.

HTTP Status Code: 400

MalformedArnException

The format of an Amazon Resource Name (ARN) is not valid.

HTTP Status Code: 400

MissingRequiredParameterException

A required input parameter is missing.

HTTP Status Code: 400

OperationNotPermittedException

The requested operation is not permitted.

HTTP Status Code: 400

ServerInternalException

The service could not respond to the request due to an internal problem.

HTTP Status Code: 500

ServiceUnavailableException

The service is not available.

HTTP Status Code: 503

UnknownResourceException

A specified resource was not found.

HTTP Status Code: 400

See Also

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

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

Data Types

The AWS RAM 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:

Principal

Describes a principal for use with AWS Resource Access Manager.

Contents

creationTime

The time when the principal was associated with the resource share.

Type: Timestamp

Required: No

external

Indicates whether the principal belongs to the same organization in AWS Organizations as the AWS account that owns the resource share.

Type: Boolean

Required: No

id

The ID of the principal.

Type: String

Required: No

lastUpdatedTime

The time when the association was last updated.

Type: Timestamp

Required: No

resourceShareArn

The Amazon Resource Name (ARN) of the resource share.

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 Java V2
- AWS SDK for Ruby V3

Resource

Describes a resource associated with a resource share.

Contents

arn

The Amazon Resource Name (ARN) of the resource.

Type: String

Required: No

creationTime

The time when the resource was associated with the resource share.

Type: Timestamp

Required: No

lastUpdatedTime

The time when the association was last updated.

Type: Timestamp

Required: No

resourceGroupArn

The Amazon Resource Name (ARN) of the resource group. This value is returned only if the resource is a resource group.

Type: String

Required: No

resourceShareArn

The Amazon Resource Name (ARN) of the resource share.

Type: String

Required: No

status

The status of the resource.

Type: String

Valid Values: `AVAILABLE` | `ZONAL_RESOURCE_INACCESSIBLE` | `LIMIT_EXCEEDED` | `UNAVAILABLE` | `PENDING`

Required: No

statusMessage

A message about the status of the resource.

Type: String

Required: No

type

The resource type.

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 Java V2
- AWS SDK for Ruby V3

ResourceShare

Describes a resource share.

Contents

allowExternalPrincipals

Indicates whether principals outside your organization in AWS Organizations can be associated with a resource share.

Type: Boolean

Required: No

creationTime

The time when the resource share was created.

Type: Timestamp

Required: No

featureSet

Indicates how the resource share was created. Possible values include:

- `CREATED_FROM_POLICY` - Indicates that the resource share was created from an AWS Identity and Access Management (AWS IAM) policy attached to a resource. These resource shares are visible only to the AWS account that created it. They cannot be modified in AWS RAM.
- `PROMOTING_TO_STANDARD` - The resource share is in the process of being promoted. For more information, see PromoteResourceShareCreatedFromPolicy (p. 65).
- `STANDARD` - Indicates that the resource share was created in AWS RAM using the console or APIs. These resource shares are visible to all principals. They can be modified in AWS RAM.

Type: String

Valid Values: `CREATED_FROM_POLICY | PROMOTING_TO_STANDARD | STANDARD`

Required: No

lastUpdatedTime

The time when the resource share was last updated.

Type: Timestamp

Required: No

name

The name of the resource share.

Type: String

Required: No

owningAccountId

The ID of the AWS account that owns the resource share.

Type: String

Required: No

resourceShareArn

The Amazon Resource Name (ARN) of the resource share.

Type: String

Required: No

status

The status of the resource share.

Type: String

Valid Values: `PENDING | ACTIVE | FAILED | DELETING | DELETED`

Required: No

statusMessage

A message about the status of the resource share.

Type: String

Required: No

tags

The tags for the resource share.

Type: Array of Tag (p. 94) objects

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceShareAssociation

Describes an association with a resource share.

Contents

associatedEntity

The associated entity. For resource associations, this is the Amazon Resource Name (ARN) of the resource. For principal associations, this is one of the following:

- An AWS account ID
- An ARN of an organization in AWS Organizations
- An ARN of an organizational unit (OU) in AWS Organizations
- An ARN of an IAM role
- An ARN of an IAM user

Type: String

Required: No

associationType

The association type.

Type: String

Valid Values: `PRINCIPAL | RESOURCE`

Required: No

creationTime

The time when the association was created.

Type: Timestamp

Required: No

external

Indicates whether the principal belongs to the same organization in AWS Organizations as the AWS account that owns the resource share.

Type: Boolean

Required: No

lastUpdatedTime

The time when the association was last updated.

Type: Timestamp

Required: No

resourceShareArn

The Amazon Resource Name (ARN) of the resource share.

Type: String

Required: No

resourceShareName

The name of the resource share.

Type: String

Required: No

status

The status of the association.

Type: String

Valid Values: `ASSOCIATING | ASSOCIATED | FAILED | DISASSOCIATING | DISASSOCIATED`

Required: No

statusMessage

A message about the status of the association.

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 Java V2
- AWS SDK for Ruby V3

ResourceShareInvitation

Describes an invitation to join a resource share.

Contents

invitationTimestamp

The date and time when the invitation was sent.

Type: Timestamp

Required: No

receiverAccountId

The ID of the AWS account that received the invitation.

Type: String

Required: No

receiverArn

The Amazon Resource Name (ARN) of the IAM user or IAM role that received the invitation.

Type: String

Required: No

resourceShareArn

The Amazon Resource Name (ARN) of the resource share.

Type: String

Required: No

resourceShareAssociations

This member has been deprecated.

To view the resources associated with a pending resource share invitation, use
ListPendingInvitationResources.

Type: Array of ResourceShareAssociation (p. 85) objects

Required: No

resourceShareInvitationArn

The Amazon Resource Name (ARN) of the invitation.

Type: String

Required: No

resourceShareName

The name of the resource share.

Type: String

Required: No

senderAccountId

The ID of the AWS account that sent the invitation.

Type: String

Required: No

status

The status of the invitation.

Type: String

Valid Values: `PENDING | ACCEPTED | REJECTED | EXPIRED`

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

ResourceSharePermissionDetail

Information about an AWS RAM permission.

Contents

arn

The Amazon Resource Name (ARN) of the permission.

Type: String

Required: No

creationTime

The date and time when the permission was created.

Type: Timestamp

Required: No

defaultVersion

Specifies whether the version of the permission is set to the default version for this permission.

Type: Boolean

Required: No

isResourceTypeDefault

Specifies whether the version of the permission is set to the default version for this resource type.

Type: Boolean

Required: No

lastUpdatedTime

The date and time when the permission was last updated.

Type: Timestamp

Required: No

name

The name of the permission.

Type: String

Required: No

permission

The permission's effect and actions in JSON format. The `effect` indicates whether the actions are allowed or denied. The `actions` list the API actions to which the principal is granted or denied access.

Type: String

Required: No

resourceType

The resource type to which the permission applies.

Type: String

Required: No

version

The identifier for the version of the permission.

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 Java V2
- AWS SDK for Ruby V3

ResourceSharePermissionSummary

Information about a permission that is associated with a resource share.

Contents

arn

The Amazon Resource Name (ARN) of the permission.

Type: String

Required: No

creationTime

The date and time when the permission was created.

Type: Timestamp

Required: No

defaultVersion

Specifies whether the version of the permission is set to the default version for this permission.

Type: Boolean

Required: No

isResourceTypeDefault

Specifies whether the version of the permission is set to the default version for this resource type.

Type: Boolean

Required: No

lastUpdatedTime

The date and time when the permission was last updated.

Type: Timestamp

Required: No

name

The name of the permission.

Type: String

Required: No

resourceType

The type of resource to which the permission applies.

Type: String

Required: No

status

The current status of the permission.

Type: String

Required: No

version

The identifier for the version of the permission.

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 Java V2
- AWS SDK for Ruby V3

ServiceNameAndResourceType

Information about the shareable resource types and the AWS services to which they belong.

Contents

resourceType

The shareable resource types.

Type: String

Required: No

serviceName

The name of the AWS services to which the resources belong.

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

Tag

Information about a tag.

Contents

key

The key of the tag.

Type: String

Required: No

value

The value of the tag.

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 Java V2
- AWS SDK for Ruby V3

TagFilter

Used to filter information based on tags.

Contents

tagKey

The tag key.

Type: String

Required: No

tagValues

The tag values.

Type: Array of strings

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3

Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

X-Amz-Credential

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

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

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

Type: string

Required: Conditional

X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

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

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

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

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

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

IncompleteSignature

The request signature does not conform to AWS standards.

HTTP Status Code: 400

InternalFailure

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

HTTP Status Code: 500

InvalidAction

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

HTTP Status Code: 400

InvalidClientTokenId

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

HTTP Status Code: 403

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

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

HTTP Status Code: 400

InvalidQueryParameter

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

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

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

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

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