



Welcome

Amazon Redshift Serverless



API Version 2021-04-21

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Amazon Redshift Serverless: Welcome

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Table of Contents

Welcome	1
Actions	2
ConvertRecoveryPointToSnapshot	4
Request Syntax	4
Request Parameters	4
Response Syntax	5
Response Elements	6
Errors	6
See Also	7
CreateCustomDomainAssociation	8
Request Syntax	8
Request Parameters	8
Response Syntax	9
Response Elements	9
Errors	10
See Also	11
CreateEndpointAccess	12
Request Syntax	12
Request Parameters	12
Response Syntax	13
Response Elements	14
Errors	14
See Also	15
CreateNamespace	16
Request Syntax	16
Request Parameters	16
Response Syntax	19
Response Elements	19
Errors	20
See Also	20
CreateScheduledAction	22
Request Syntax	22
Request Parameters	22
Response Syntax	24

Response Elements	25
Errors	25
See Also	26
CreateSnapshot	27
Request Syntax	27
Request Parameters	27
Response Syntax	28
Response Elements	29
Errors	29
See Also	30
CreateSnapshotCopyConfiguration	31
Request Syntax	31
Request Parameters	31
Response Syntax	32
Response Elements	32
Errors	32
See Also	33
CreateUsageLimit	35
Request Syntax	35
Request Parameters	35
Response Syntax	36
Response Elements	37
Errors	37
See Also	38
CreateWorkgroup	39
Request Syntax	39
Request Parameters	39
Response Syntax	42
Response Elements	43
Errors	43
See Also	44
DeleteCustomDomainAssociation	45
Request Syntax	45
Request Parameters	45
Response Elements	46
Errors	46

See Also	47
DeleteEndpointAccess	48
Request Syntax	48
Request Parameters	48
Response Syntax	48
Response Elements	49
Errors	49
See Also	50
DeleteNamespace	51
Request Syntax	51
Request Parameters	51
Response Syntax	52
Response Elements	52
Errors	52
See Also	53
DeleteResourcePolicy	54
Request Syntax	54
Request Parameters	54
Response Elements	54
Errors	54
See Also	55
DeleteScheduledAction	56
Request Syntax	56
Request Parameters	56
Response Syntax	56
Response Elements	57
Errors	57
See Also	57
DeleteSnapshot	59
Request Syntax	59
Request Parameters	59
Response Syntax	59
Response Elements	60
Errors	60
See Also	61
DeleteSnapshotCopyConfiguration	62

Request Syntax	62
Request Parameters	62
Response Syntax	62
Response Elements	62
Errors	63
See Also	63
DeleteUsageLimit	65
Request Syntax	65
Request Parameters	65
Response Syntax	65
Response Elements	65
Errors	66
See Also	66
DeleteWorkgroup	68
Request Syntax	68
Request Parameters	68
Response Syntax	68
Response Elements	69
Errors	70
See Also	70
GetCredentials	72
Request Syntax	72
Request Parameters	72
Response Syntax	73
Response Elements	74
Errors	74
See Also	75
GetCustomDomainAssociation	76
Request Syntax	76
Request Parameters	76
Response Syntax	77
Response Elements	77
Errors	78
See Also	79
GetEndpointAccess	80
Request Syntax	80

Request Parameters	80
Response Syntax	80
Response Elements	81
Errors	81
See Also	82
GetNamespace	83
Request Syntax	83
Request Parameters	83
Response Syntax	83
Response Elements	84
Errors	84
See Also	85
GetRecoveryPoint	86
Request Syntax	86
Request Parameters	86
Response Syntax	86
Response Elements	86
Errors	87
See Also	87
GetResourcePolicy	89
Request Syntax	89
Request Parameters	89
Response Syntax	89
Response Elements	89
Errors	90
See Also	90
GetScheduledAction	92
Request Syntax	92
Request Parameters	92
Response Syntax	92
Response Elements	93
Errors	93
See Also	93
GetSnapshot	95
Request Syntax	95
Request Parameters	95

Response Syntax	96
Response Elements	96
Errors	97
See Also	97
GetTableRestoreStatus	98
Request Syntax	98
Request Parameters	98
Response Syntax	98
Response Elements	99
Errors	99
See Also	99
GetUsageLimit	101
Request Syntax	101
Request Parameters	101
Response Syntax	101
Response Elements	101
Errors	102
See Also	102
GetWorkgroup	104
Request Syntax	104
Request Parameters	104
Response Syntax	104
Response Elements	105
Errors	106
See Also	106
ListCustomDomainAssociations	108
Request Syntax	108
Request Parameters	108
Response Syntax	109
Response Elements	109
Errors	110
See Also	111
ListEndpointAccess	112
Request Syntax	112
Request Parameters	112
Response Syntax	113

Response Elements	114
Errors	114
See Also	115
ListNamespaces	116
Request Syntax	116
Request Parameters	116
Response Syntax	116
Response Elements	117
Errors	117
See Also	118
ListRecoveryPoints	119
Request Syntax	119
Request Parameters	119
Response Syntax	120
Response Elements	121
Errors	121
See Also	122
ListScheduledActions	123
Request Syntax	123
Request Parameters	123
Response Syntax	124
Response Elements	124
Errors	125
See Also	125
ListSnapshotCopyConfigurations	127
Request Syntax	127
Request Parameters	127
Response Syntax	128
Response Elements	128
Errors	129
See Also	130
ListSnapshots	131
Request Syntax	131
Request Parameters	131
Response Syntax	132
Response Elements	133

Errors	134
See Also	134
ListTableRestoreStatus	135
Request Syntax	135
Request Parameters	135
Response Syntax	136
Response Elements	137
Errors	137
See Also	138
ListTagsForResource	139
Request Syntax	139
Request Parameters	139
Response Syntax	139
Response Elements	139
Errors	140
See Also	140
ListUsageLimits	142
Request Syntax	142
Request Parameters	142
Response Syntax	143
Response Elements	143
Errors	144
See Also	145
ListWorkgroups	146
Request Syntax	146
Request Parameters	146
Response Syntax	147
Response Elements	148
Errors	148
See Also	149
PutResourcePolicy	150
Request Syntax	150
Request Parameters	150
Response Syntax	151
Response Elements	151
Errors	151

See Also	152
RestoreFromRecoveryPoint	153
Request Syntax	153
Request Parameters	153
Response Syntax	154
Response Elements	154
Errors	155
See Also	155
RestoreFromSnapshot	157
Request Syntax	157
Request Parameters	157
Response Syntax	159
Response Elements	159
Errors	160
See Also	160
RestoreTableFromRecoveryPoint	162
Request Syntax	162
Request Parameters	162
Response Syntax	164
Response Elements	164
Errors	165
See Also	165
RestoreTableFromSnapshot	167
Request Syntax	167
Request Parameters	167
Response Syntax	169
Response Elements	169
Errors	170
See Also	170
TagResource	172
Request Syntax	172
Request Parameters	172
Response Elements	173
Errors	173
See Also	173
UntagResource	175

Request Syntax	175
Request Parameters	175
Response Elements	175
Errors	176
See Also	176
UpdateCustomDomainAssociation	178
Request Syntax	178
Request Parameters	178
Response Syntax	179
Response Elements	179
Errors	180
See Also	181
UpdateEndpointAccess	182
Request Syntax	182
Request Parameters	182
Response Syntax	182
Response Elements	183
Errors	183
See Also	184
UpdateNamespace	185
Request Syntax	185
Request Parameters	185
Response Syntax	187
Response Elements	188
Errors	188
See Also	189
UpdateScheduledAction	190
Request Syntax	190
Request Parameters	190
Response Syntax	192
Response Elements	192
Errors	193
See Also	193
UpdateSnapshot	195
Request Syntax	195
Request Parameters	195

Response Syntax	195
Response Elements	196
Errors	196
See Also	197
UpdateSnapshotCopyConfiguration	198
Request Syntax	198
Request Parameters	198
Response Syntax	198
Response Elements	199
Errors	199
See Also	200
UpdateUsageLimit	201
Request Syntax	201
Request Parameters	201
Response Syntax	202
Response Elements	202
Errors	202
See Also	203
UpdateWorkgroup	204
Request Syntax	204
Request Parameters	204
Response Syntax	206
Response Elements	207
Errors	208
See Also	208
Data Types	210
Association	212
Contents	212
See Also	213
ConfigParameter	214
Contents	214
See Also	214
CreateSnapshotScheduleActionParameters	215
Contents	215
See Also	216
Endpoint	217

Contents	217
See Also	217
EndpointAccess	218
Contents	218
See Also	219
Namespace	221
Contents	221
See Also	223
NetworkInterface	224
Contents	224
See Also	224
RecoveryPoint	226
Contents	226
See Also	227
ResourcePolicy	228
Contents	228
See Also	228
Schedule	229
Contents	229
See Also	229
ScheduledActionAssociation	231
Contents	231
See Also	231
ScheduledActionResponse	232
Contents	232
See Also	234
Snapshot	236
Contents	236
See Also	239
SnapshotCopyConfiguration	241
Contents	241
See Also	242
TableRestoreStatus	243
Contents	243
See Also	245
Tag	247

Contents	247
See Also	247
TargetAction	248
Contents	248
See Also	248
UsageLimit	249
Contents	249
See Also	250
VpcEndpoint	251
Contents	251
See Also	251
VpcSecurityGroupMembership	252
Contents	252
See Also	252
Workgroup	253
Contents	253
See Also	257
Common Parameters	258
Common Errors	261

Welcome

This is an interface reference for Amazon Redshift Serverless. It contains documentation for one of the programming or command line interfaces you can use to manage Amazon Redshift Serverless.

Amazon Redshift Serverless automatically provisions data warehouse capacity and intelligently scales the underlying resources based on workload demands. Amazon Redshift Serverless adjusts capacity in seconds to deliver consistently high performance and simplified operations for even the most demanding and volatile workloads. Amazon Redshift Serverless lets you focus on using your data to acquire new insights for your business and customers.

To learn more about Amazon Redshift Serverless, see [What is Amazon Redshift Serverless](#).

This document was last published on July 2, 2024.

Actions

The following actions are supported:

- [ConvertRecoveryPointToSnapshot](#)
- [CreateCustomDomainAssociation](#)
- [CreateEndpointAccess](#)
- [CreateNamespace](#)
- [CreateScheduledAction](#)
- [CreateSnapshot](#)
- [CreateSnapshotCopyConfiguration](#)
- [CreateUsageLimit](#)
- [CreateWorkgroup](#)
- [DeleteCustomDomainAssociation](#)
- [DeleteEndpointAccess](#)
- [DeleteNamespace](#)
- [DeleteResourcePolicy](#)
- [DeleteScheduledAction](#)
- [DeleteSnapshot](#)
- [DeleteSnapshotCopyConfiguration](#)
- [DeleteUsageLimit](#)
- [DeleteWorkgroup](#)
- [GetCredentials](#)
- [GetCustomDomainAssociation](#)
- [GetEndpointAccess](#)
- [GetNamespace](#)
- [GetRecoveryPoint](#)
- [GetResourcePolicy](#)
- [GetScheduledAction](#)
- [GetSnapshot](#)
- [GetTableRestoreStatus](#)

- [GetUsageLimit](#)
- [GetWorkgroup](#)
- [ListCustomDomainAssociations](#)
- [ListEndpointAccess](#)
- [ListNamespaces](#)
- [ListRecoveryPoints](#)
- [ListScheduledActions](#)
- [ListSnapshotCopyConfigurations](#)
- [ListSnapshots](#)
- [ListTableRestoreStatus](#)
- [ListTagsForResource](#)
- [ListUsageLimits](#)
- [ListWorkgroups](#)
- [PutResourcePolicy](#)
- [RestoreFromRecoveryPoint](#)
- [RestoreFromSnapshot](#)
- [RestoreTableFromRecoveryPoint](#)
- [RestoreTableFromSnapshot](#)
- [TagResource](#)
- [UntagResource](#)
- [UpdateCustomDomainAssociation](#)
- [UpdateEndpointAccess](#)
- [UpdateNamespace](#)
- [UpdateScheduledAction](#)
- [UpdateSnapshot](#)
- [UpdateSnapshotCopyConfiguration](#)
- [UpdateUsageLimit](#)
- [UpdateWorkgroup](#)

ConvertRecoveryPointToSnapshot

Converts a recovery point to a snapshot. For more information about recovery points and snapshots, see [Working with snapshots and recovery points](#).

Request Syntax

```
{
  "recoveryPointId": "string",
  "retentionPeriod": number,
  "snapshotName": "string",
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[recoveryPointId](#)

The unique identifier of the recovery point.

Type: String

Required: Yes

[retentionPeriod](#)

How long to retain the snapshot.

Type: Integer

Required: No

[snapshotName](#)

The name of the snapshot.

Type: String

Required: Yes

tags

An array of [Tag objects](#) to associate with the created snapshot.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

Response Syntax

```
{
  "snapshot": {
    "accountsWithProvisionedRestoreAccess": [ "string" ],
    "accountsWithRestoreAccess": [ "string" ],
    "actualIncrementalBackupSizeInMegaBytes": number,
    "adminPasswordSecretArn": "string",
    "adminPasswordSecretKmsKeyId": "string",
    "adminUsername": "string",
    "backupProgressInMegaBytes": number,
    "currentBackupRateInMegaBytesPerSecond": number,
    "elapsedTimeInSeconds": number,
    "estimatedSecondsToCompletion": number,
    "kmsKeyId": "string",
    "namespaceArn": "string",
    "namespaceName": "string",
    "ownerAccount": "string",
    "snapshotArn": "string",
    "snapshotCreateTime": "string",
    "snapshotName": "string",
    "snapshotRemainingDays": number,
    "snapshotRetentionPeriod": number,
    "snapshotRetentionStartTime": "string",
    "status": "string",
    "totalBackupSizeInMegaBytes": number
  }
}
```

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.

snapshot

The snapshot converted from the recovery point.

Type: [Snapshot](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerError

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ServiceQuotaExceededException

The service limit was exceeded.

HTTP Status Code: 400

TooManyTagsException

The request exceeded the number of tags allowed for a resource.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

CreateCustomDomainAssociation

Creates a custom domain association for Amazon Redshift Serverless.

Request Syntax

```
{
  "customDomainCertificateArn": "string",
  "customDomainName": "string",
  "workgroupName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

customDomainCertificateArn

The custom domain name's certificate Amazon resource name (ARN).

Type: String

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

Pattern: `arn:[\w+=/, .@-]+:acm:[\w+=/, .@-]*:[0-9]+:[\w+=, .@-]+(/[\w+=, .@-]+)*`

Required: Yes

customDomainName

The custom domain name to associate with the workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(((?!-)[A-Za-z0-9-]{0,62}[A-Za-z0-9])\.)+(((?!-)[A-Za-z0-9-]{1,62}[A-Za-z0-9])$`

Required: Yes

workgroupName

The name of the workgroup associated with the database.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{
  "customDomainCertificateArn": "string",
  "customDomainCertificateExpiryTime": "string",
  "customDomainName": "string",
  "workgroupName": "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.

customDomainCertificateArn

The custom domain name's certificate Amazon resource name (ARN).

Type: String

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

Pattern: `arn:[\w+=/, .@-]+ : acm:[\w+=/, .@-]* : [0-9]+ : [\w+=, .@-]+(/[\w+=, .@-]+)*`

customDomainCertificateExpiryTime

The expiration time for the certificate.

Type: Timestamp

customDomainName

The custom domain name to associate with the workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(((?!-)[A-Za-z0-9-]{0,62}[A-Za-z0-9])\.)+((?!-)[A-Za-z0-9-]{1,62}[A-Za-z0-9])$`

workgroupName

The name of the workgroup associated with the database.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

CreateEndpointAccess

Creates an Amazon Redshift Serverless managed VPC endpoint.

Request Syntax

```
{
  "endpointName": "string",
  "ownerAccount": "string",
  "subnetIds": [ "string" ],
  "vpcSecurityGroupIds": [ "string" ],
  "workgroupName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

endpointName

The name of the VPC endpoint. An endpoint name must contain 1-30 characters. Valid characters are A-Z, a-z, 0-9, and hyphen(-). The first character must be a letter. The name can't contain two consecutive hyphens or end with a hyphen.

Type: String

Required: Yes

ownerAccount

The owner AWS account for the Amazon Redshift Serverless workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: (`\d{12}`)

Required: No

subnetIds

The unique identifiers of subnets from which Amazon Redshift Serverless chooses one to deploy a VPC endpoint.

Type: Array of strings

Required: Yes

vpcSecurityGroupIds

The unique identifiers of the security group that defines the ports, protocols, and sources for inbound traffic that you are authorizing into your endpoint.

Type: Array of strings

Required: No

workgroupName

The name of the workgroup to associate with the VPC endpoint.

Type: String

Required: Yes

Response Syntax

```
{
  "endpoint": {
    "address": "string",
    "endpointArn": "string",
    "endpointCreateTime": "string",
    "endpointName": "string",
    "endpointStatus": "string",
    "port": number,
    "subnetIds": [ "string" ],
    "vpcEndpoint": {
      "networkInterfaces": [
        {
          "availabilityZone": "string",
          "networkInterfaceId": "string",
          "privateIpAddress": "string",
```

```
        "subnetId": "string"
      }
    ],
    "vpcEndpointId": "string",
    "vpcId": "string"
  },
  "vpcSecurityGroups": [
    {
      "status": "string",
      "vpcSecurityGroupId": "string"
    }
  ],
  "workgroupName": "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.

endpoint

The created VPC endpoint.

Type: [EndpointAccess](#) object

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ServiceQuotaExceededException

The service limit was exceeded.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

CreateNamespace

Creates a namespace in Amazon Redshift Serverless.

Request Syntax

```
{
  "adminPasswordSecretKmsKeyId": "string",
  "adminUsername": "string",
  "adminUserPassword": "string",
  "dbName": "string",
  "defaultIamRoleArn": "string",
  "iamRoles": [ "string" ],
  "kmsKeyId": "string",
  "logExports": [ "string" ],
  "manageAdminPassword": boolean,
  "namespaceName": "string",
  "redshiftIdcApplicationArn": "string",
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[adminPasswordSecretKmsKeyId](#)

The ID of the AWS Key Management Service (KMS) key used to encrypt and store the namespace's admin credentials secret. You can only use this parameter if `manageAdminPassword` is true.

Type: String

Required: No

adminUsername

The username of the administrator for the first database created in the namespace.

Type: String

Required: No

adminUserPassword

The password of the administrator for the first database created in the namespace.

You can't use `adminUserPassword` if `manageAdminPassword` is true.

Type: String

Required: No

dbName

The name of the first database created in the namespace.

Type: String

Required: No

defaultIamRoleArn

The Amazon Resource Name (ARN) of the IAM role to set as a default in the namespace.

Type: String

Required: No

iamRoles

A list of IAM roles to associate with the namespace.

Type: Array of strings

Required: No

kmsKeyId

The ID of the AWS Key Management Service key used to encrypt your data.

Type: String

Required: No

logExports

The types of logs the namespace can export. Available export types are `userlog`, `connectionlog`, and `useractivitylog`.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 16 items.

Valid Values: `useractivitylog` | `userlog` | `connectionlog`

Required: No

manageAdminPassword

If `true`, Amazon Redshift uses AWS Secrets Manager to manage the namespace's admin credentials. You can't use `adminUserPassword` if `manageAdminPassword` is `true`. If `manageAdminPassword` is `false` or not set, Amazon Redshift uses `adminUserPassword` for the admin user account's password.

Type: Boolean

Required: No

namespaceName

The name of the namespace.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

redshiftIamApplicationArn

The ARN for the Redshift application that integrates with IAM Identity Center.

Type: String

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

Required: No

tags

A list of tag instances.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

Response Syntax

```
{
  "namespace": {
    "adminPasswordSecretArn": "string",
    "adminPasswordSecretKmsKeyId": "string",
    "adminUsername": "string",
    "creationDate": "string",
    "dbName": "string",
    "defaultIamRoleArn": "string",
    "iamRoles": [ "string" ],
    "kmsKeyId": "string",
    "logExports": [ "string" ],
    "namespaceArn": "string",
    "namespaceId": "string",
    "namespaceName": "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.

namespace

The created namespace object.

Type: [Namespace](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

TooManyTagsException

The request exceeded the number of tags allowed for a resource.

HTTP Status Code: 400

ValidationException

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

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 C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

CreateScheduledAction

Creates a scheduled action. A scheduled action contains a schedule and an Amazon Redshift API action. For example, you can create a schedule of when to run the CreateSnapshot API operation.

Request Syntax

```
{
  "enabled": boolean,
  "endTime": number,
  "namespaceName": "string",
  "roleArn": "string",
  "schedule": { ... },
  "scheduledActionDescription": "string",
  "scheduledActionName": "string",
  "startTime": number,
  "targetAction": { ... }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

enabled

Indicates whether the schedule is enabled. If false, the scheduled action does not trigger. For more information about state of the scheduled action, see [ScheduledAction](#).

Type: Boolean

Required: No

endTime

The end time in UTC when the schedule is no longer active. After this time, the scheduled action does not trigger.

Type: Timestamp

Required: No

namespaceName

The name of the namespace for which to create a scheduled action.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

roleArn

The ARN of the IAM role to assume to run the scheduled action. This IAM role must have permission to run the Amazon Redshift Serverless API operation in the scheduled action. This IAM role must allow the Amazon Redshift scheduler to schedule creating snapshots. (Principal scheduler.redshift.amazonaws.com) to assume permissions on your behalf. For more information about the IAM role to use with the Amazon Redshift scheduler, see [Using Identity-Based Policies for Amazon Redshift](#) in the Amazon Redshift Cluster Management Guide

Type: String

Required: Yes

schedule

The schedule for a one-time (at timestamp format) or recurring (cron format) scheduled action. Schedule invocations must be separated by at least one hour. Times are in UTC.

- Format of at timestamp is `yyyy-mm-ddThh:mm:ss`. For example, `2016-03-04T17:27:00`.
- Format of cron expression is (Minutes Hours Day-of-month Month Day-of-week Year). For example, `"(0 10 ? * MON *)"`. For more information, see [Cron Expressions](#) in the *Amazon CloudWatch Events User Guide*.

Type: [Schedule](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

scheduledActionDescription

The description of the scheduled action.

Type: String

Required: No

scheduledActionName

The name of the scheduled action.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 60.

Pattern: `^[a-z0-9-]+$`

Required: Yes

startTime

The start time in UTC when the schedule is active. Before this time, the scheduled action does not trigger.

Type: Timestamp

Required: No

targetAction

A JSON format string of the Amazon Redshift Serverless API operation with input parameters. The following is an example of a target action.

```
"{"CreateSnapshot": {"NamespaceName": "sampleNamespace", "SnapshotName": "sampleSnapshot", "retentionPeriod": "1"}}"
```

Type: [TargetAction](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
{  
  "scheduledAction": {  
    "endTime": number,
```

```
"namespaceName": "string",
"nextInvocations": [ number ],
"roleArn": "string",
"schedule": { ... },
"scheduledActionDescription": "string",
"scheduledActionName": "string",
"scheduledActionUuid": "string",
"startTime": number,
"state": "string",
"targetAction": { ... }
}
}
```

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.

scheduledAction

The returned ScheduledAction object that describes the properties of a scheduled action.

Type: [ScheduledActionResponse](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

CreateSnapshot

Creates a snapshot of all databases in a namespace. For more information about snapshots, see [Working with snapshots and recovery points](#).

Request Syntax

```
{
  "namespaceName": "string",
  "retentionPeriod": number,
  "snapshotName": "string",
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[namespaceName](#)

The namespace to create a snapshot for.

Type: String

Required: Yes

[retentionPeriod](#)

How long to retain the created snapshot.

Type: Integer

Required: No

[snapshotName](#)

The name of the snapshot.

Type: String

Required: Yes

tags

An array of [Tag objects](#) to associate with the snapshot.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

Response Syntax

```
{
  "snapshot": {
    "accountsWithProvisionedRestoreAccess": [ "string" ],
    "accountsWithRestoreAccess": [ "string" ],
    "actualIncrementalBackupSizeInMegaBytes": number,
    "adminPasswordSecretArn": "string",
    "adminPasswordSecretKmsKeyId": "string",
    "adminUsername": "string",
    "backupProgressInMegaBytes": number,
    "currentBackupRateInMegaBytesPerSecond": number,
    "elapsedTimeInSeconds": number,
    "estimatedSecondsToCompletion": number,
    "kmsKeyId": "string",
    "namespaceArn": "string",
    "namespaceName": "string",
    "ownerAccount": "string",
    "snapshotArn": "string",
    "snapshotCreateTime": "string",
    "snapshotName": "string",
    "snapshotRemainingDays": number,
    "snapshotRetentionPeriod": number,
    "snapshotRetentionStartTime": "string",
    "status": "string",
    "totalBackupSizeInMegaBytes": number
  }
}
```

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.

snapshot

The created snapshot object.

Type: [Snapshot](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ServiceQuotaExceededException

The service limit was exceeded.

HTTP Status Code: 400

TooManyTagsException

The request exceeded the number of tags allowed for a resource.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

CreateSnapshotCopyConfiguration

Creates a snapshot copy configuration that lets you copy snapshots to another AWS Region.

Request Syntax

```
{  
  "destinationKmsKeyId": "string",  
  "destinationRegion": "string",  
  "namespaceName": "string",  
  "snapshotRetentionPeriod": number  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

destinationKmsKeyId

The KMS key to use to encrypt your snapshots in the destination AWS Region.

Type: String

Required: No

destinationRegion

The destination AWS Region that you want to copy snapshots to.

Type: String

Required: Yes

namespaceName

The name of the namespace to copy snapshots from.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

snapshotRetentionPeriod

The retention period of the snapshots that you copy to the destination AWS Region.

Type: Integer

Required: No

Response Syntax

```
{
  "snapshotCopyConfiguration": {
    "destinationKmsKeyId": "string",
    "destinationRegion": "string",
    "namespaceName": "string",
    "snapshotCopyConfigurationArn": "string",
    "snapshotCopyConfigurationId": "string",
    "snapshotRetentionPeriod": number
  }
}
```

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.

snapshotCopyConfiguration

The snapshot copy configuration object that is returned.

Type: [SnapshotCopyConfiguration](#) object

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ServiceQuotaExceededException

The service limit was exceeded.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

CreateUsageLimit

Creates a usage limit for a specified Amazon Redshift Serverless usage type. The usage limit is identified by the returned usage limit identifier.

Request Syntax

```
{  
  "amount": number,  
  "breachAction": "string",  
  "period": "string",  
  "resourceArn": "string",  
  "usageType": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

amount

The limit amount. If time-based, this amount is in Redshift Processing Units (RPU) consumed per hour. If data-based, this amount is in terabytes (TB) of data transferred between Regions in cross-account sharing. The value must be a positive number.

Type: Long

Required: Yes

breachAction

The action that Amazon Redshift Serverless takes when the limit is reached. The default is log.

Type: String

Valid Values: log | emit-metric | deactivate

Required: No

period

The time period that the amount applies to. A weekly period begins on Sunday. The default is monthly.

Type: String

Valid Values: `daily` | `weekly` | `monthly`

Required: No

resourceArn

The Amazon Resource Name (ARN) of the Amazon Redshift Serverless resource to create the usage limit for.

Type: String

Required: Yes

usageType

The type of Amazon Redshift Serverless usage to create a usage limit for.

Type: String

Valid Values: `serverless-compute` | `cross-region-datasharing`

Required: Yes

Response Syntax

```
{
  "usageLimit": {
    "amount": number,
    "breachAction": "string",
    "period": "string",
    "resourceArn": "string",
    "usageLimitArn": "string",
    "usageLimitId": "string",
    "usageType": "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.

usageLimit

The returned usage limit object.

Type: [UsageLimit](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ServiceQuotaExceededException

The service limit was exceeded.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

CreateWorkgroup

Creates an workgroup in Amazon Redshift Serverless.

Request Syntax

```
{
  "baseCapacity": number,
  "configParameters": [
    {
      "parameterKey": "string",
      "parameterValue": "string"
    }
  ],
  "enhancedVpcRouting": boolean,
  "maxCapacity": number,
  "namespaceName": "string",
  "port": number,
  "publiclyAccessible": boolean,
  "securityGroupIds": [ "string" ],
  "subnetIds": [ "string" ],
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "workgroupName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

baseCapacity

The base data warehouse capacity of the workgroup in Redshift Processing Units (RPU).

Type: Integer

Required: No

configParameters

An array of parameters to set for advanced control over a database. The options are `auto_mv`, `datestyle`, `enable_case_sensitive_identifier`, `enable_user_activity_logging`, `query_group`, `search_path`, `require_ssl`, `use_fips_ssl`, and query monitoring metrics that let you define performance boundaries. For more information about query monitoring rules and available metrics, see [Query monitoring metrics for Amazon Redshift Serverless](#).

Type: Array of [ConfigParameter](#) objects

Required: No

enhancedVpcRouting

The value that specifies whether to turn on enhanced virtual private cloud (VPC) routing, which forces Amazon Redshift Serverless to route traffic through your VPC instead of over the internet.

Type: Boolean

Required: No

maxCapacity

The maximum data-warehouse capacity Amazon Redshift Serverless uses to serve queries. The max capacity is specified in RPUs.

Type: Integer

Required: No

namespaceName

The name of the namespace to associate with the workgroup.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

port

The custom port to use when connecting to a workgroup. Valid port ranges are 5431-5455 and 8191-8215. The default is 5439.

Type: Integer

Required: No

publiclyAccessible

A value that specifies whether the workgroup can be accessed from a public network.

Type: Boolean

Required: No

securityGroupIds

An array of security group IDs to associate with the workgroup.

Type: Array of strings

Required: No

subnetIds

An array of VPC subnet IDs to associate with the workgroup.

Type: Array of strings

Required: No

tags

A array of tag instances.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

workgroupName

The name of the created workgroup.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{
  "workgroup": {
    "baseCapacity": number,
    "configParameters": [
      {
        "parameterKey": "string",
        "parameterValue": "string"
      }
    ],
    "creationDate": "string",
    "crossAccountVpcs": [ "string" ],
    "customDomainCertificateArn": "string",
    "customDomainCertificateExpiryTime": "string",
    "customDomainName": "string",
    "endpoint": {
      "address": "string",
      "port": number,
      "vpcEndpoints": [
        {
          "networkInterfaces": [
            {
              "availabilityZone": "string",
              "networkInterfaceId": "string",
              "privateIpAddress": "string",
              "subnetId": "string"
            }
          ],
          "vpcEndpointId": "string",
          "vpcId": "string"
        }
      ]
    },
    "enhancedVpcRouting": boolean,
  }
}
```

```
"maxCapacity": number,  
"namespaceName": "string",  
"patchVersion": "string",  
"port": number,  
"publiclyAccessible": boolean,  
"securityGroupIds": [ "string" ],  
"status": "string",  
"subnetIds": [ "string" ],  
"workgroupArn": "string",  
"workgroupId": "string",  
"workgroupName": "string",  
"workgroupVersion": "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.

workgroup

The created workgroup object.

Type: [Workgroup](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InsufficientCapacityException

There is an insufficient capacity to perform the action.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

TooManyTagsException

The request exceeded the number of tags allowed for a resource.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

DeleteCustomDomainAssociation

Deletes a custom domain association for Amazon Redshift Serverless.

Request Syntax

```
{
  "customDomainName": "string",
  "workgroupName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

customDomainName

The custom domain name associated with the workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(((?!-)[A-Za-z0-9-]{0,62}[A-Za-z0-9])\.)+((?!-)[A-Za-z0-9-]{1,62}[A-Za-z0-9])$`

Required: Yes

workgroupName

The name of the workgroup associated with the database.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

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](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

DeleteEndpointAccess

Deletes an Amazon Redshift Serverless managed VPC endpoint.

Request Syntax

```
{  
  "endpointName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

endpointName

The name of the VPC endpoint to delete.

Type: String

Required: Yes

Response Syntax

```
{  
  "endpoint": {  
    "address": "string",  
    "endpointArn": "string",  
    "endpointCreateTime": "string",  
    "endpointName": "string",  
    "endpointStatus": "string",  
    "port": number,  
    "subnetIds": [ "string ],  
    "vpcEndpoint": {  
      "networkInterfaces": [  
        {  
          "availabilityZone": "string",  
          "networkInterfaceId": "string",  
          "privateIpAddress": "string",
```

```
        "subnetId": "string"
      }
    ],
    "vpcEndpointId": "string",
    "vpcId": "string"
  },
  "vpcSecurityGroups": [
    {
      "status": "string",
      "vpcSecurityGroupId": "string"
    }
  ],
  "workgroupName": "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.

endpoint

The deleted VPC endpoint.

Type: [EndpointAccess](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

DeleteNamespace

Deletes a namespace from Amazon Redshift Serverless. Before you delete the namespace, you can create a final snapshot that has all of the data within the namespace.

Request Syntax

```
{
  "finalSnapshotName": "string",
  "finalSnapshotRetentionPeriod": number,
  "namespaceName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[finalSnapshotName](#)

The name of the snapshot to be created before the namespace is deleted.

Type: String

Required: No

[finalSnapshotRetentionPeriod](#)

How long to retain the final snapshot.

Type: Integer

Required: No

[namespaceName](#)

The name of the namespace to delete.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{
  "namespace": {
    "adminPasswordSecretArn": "string",
    "adminPasswordSecretKmsKeyId": "string",
    "adminUsername": "string",
    "creationDate": "string",
    "dbName": "string",
    "defaultIamRoleArn": "string",
    "iamRoles": [ "string" ],
    "kmsKeyId": "string",
    "logExports": [ "string" ],
    "namespaceArn": "string",
    "namespaceId": "string",
    "namespaceName": "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.

namespace

The deleted namespace object.

Type: [Namespace](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

DeleteResourcePolicy

Deletes the specified resource policy.

Request Syntax

```
{  
  "resourceArn": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) of the policy to delete.

Type: String

Required: Yes

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](#).

InternalServerError

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

DeleteScheduledAction

Deletes a scheduled action.

Request Syntax

```
{
  "scheduledActionName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

scheduledActionName

The name of the scheduled action to delete.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 60.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{
  "scheduledAction": {
    "endTime": number,
    "namespaceName": "string",
    "nextInvocations": [ number ],
    "roleArn": "string",
    "schedule": { ... },
    "scheduledActionDescription": "string",
    "scheduledActionName": "string",
    "scheduledActionUuid": "string",
    "startTime": number,
  }
}
```

```
    "state": "string",  
    "targetAction": { ... }  
  }  
}
```

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.

scheduledAction

The deleted scheduled action object.

Type: [ScheduledActionResponse](#) object

Errors

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

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

DeleteSnapshot

Deletes a snapshot from Amazon Redshift Serverless.

Request Syntax

```
{  
  "snapshotName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

snapshotName

The name of the snapshot to be deleted.

Type: String

Required: Yes

Response Syntax

```
{  
  "snapshot": {  
    "accountsWithProvisionedRestoreAccess": [ "string" ],  
    "accountsWithRestoreAccess": [ "string" ],  
    "actualIncrementalBackupSizeInMegaBytes": number,  
    "adminPasswordSecretArn": "string",  
    "adminPasswordSecretKmsKeyId": "string",  
    "adminUsername": "string",  
    "backupProgressInMegaBytes": number,  
    "currentBackupRateInMegaBytesPerSecond": number,  
    "elapsedTimeInSeconds": number,  
    "estimatedSecondsToCompletion": number,  
    "kmsKeyId": "string",  
    "namespaceArn": "string",  
    "namespaceName": "string",  
  }  
}
```

```
"ownerAccount": "string",
"snapshotArn": "string",
"snapshotCreateTime": "string",
"snapshotName": "string",
"snapshotRemainingDays": number,
"snapshotRetentionPeriod": number,
"snapshotRetentionStartTime": "string",
"status": "string",
"totalBackupSizeInMegaBytes": number
}
}
```

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.

snapshot

The deleted snapshot object.

Type: [Snapshot](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerError

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

DeleteSnapshotCopyConfiguration

Deletes a snapshot copy configuration

Request Syntax

```
{  
  "snapshotCopyConfigurationId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[snapshotCopyConfigurationId](#)

The ID of the snapshot copy configuration to delete.

Type: String

Required: Yes

Response Syntax

```
{  
  "snapshotCopyConfiguration": {  
    "destinationKmsKeyId": "string",  
    "destinationRegion": "string",  
    "namespaceName": "string",  
    "snapshotCopyConfigurationArn": "string",  
    "snapshotCopyConfigurationId": "string",  
    "snapshotRetentionPeriod": number  
  }  
}
```

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.

[snapshotCopyConfiguration](#)

The deleted snapshot copy configuration object.

Type: [SnapshotCopyConfiguration](#) object

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

DeleteUsageLimit

Deletes a usage limit from Amazon Redshift Serverless.

Request Syntax

```
{  
  "usageLimitId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

usageLimitId

The unique identifier of the usage limit to delete.

Type: String

Required: Yes

Response Syntax

```
{  
  "usageLimit": {  
    "amount": number,  
    "breachAction": "string",  
    "period": "string",  
    "resourceArn": "string",  
    "usageLimitArn": "string",  
    "usageLimitId": "string",  
    "usageType": "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.

usageLimit

The deleted usage limit object.

Type: [UsageLimit](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteWorkgroup

Deletes a workgroup.

Request Syntax

```
{  
  "workgroupName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

workgroupName

The name of the workgroup to be deleted.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{  
  "workgroup": {  
    "baseCapacity": number,  
    "configParameters": [  
      {  
        "parameterKey": "string",  
        "parameterValue": "string"  
      }  
    ],  
    "creationDate": "string",
```

```

    "crossAccountVpcs": [ "string" ],
    "customDomainCertificateArn": "string",
    "customDomainCertificateExpiryTime": "string",
    "customDomainName": "string",
    "endpoint": {
      "address": "string",
      "port": number,
      "vpcEndpoints": [
        {
          "networkInterfaces": [
            {
              "availabilityZone": "string",
              "networkInterfaceId": "string",
              "privateIpAddress": "string",
              "subnetId": "string"
            }
          ],
          "vpcEndpointId": "string",
          "vpcId": "string"
        }
      ]
    },
    "enhancedVpcRouting": boolean,
    "maxCapacity": number,
    "namespaceName": "string",
    "patchVersion": "string",
    "port": number,
    "publiclyAccessible": boolean,
    "securityGroupIds": [ "string" ],
    "status": "string",
    "subnetIds": [ "string" ],
    "workgroupArn": "string",
    "workgroupId": "string",
    "workgroupName": "string",
    "workgroupVersion": "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.

[workgroup](#)

The deleted workgroup object.

Type: [Workgroup](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetCredentials

Returns a database user name and temporary password with temporary authorization to log in to Amazon Redshift Serverless.

By default, the temporary credentials expire in 900 seconds. You can optionally specify a duration between 900 seconds (15 minutes) and 3600 seconds (60 minutes).

The AWS Identity and Access Management (IAM) user or role that runs `GetCredentials` must have an IAM policy attached that allows access to all necessary actions and resources.

If the `DbName` parameter is specified, the IAM policy must allow access to the resource `dbname` for the specified database name.

Request Syntax

```
{
  "customDomainName": "string",
  "dbName": "string",
  "durationSeconds": number,
  "workgroupName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

customDomainName

The custom domain name associated with the workgroup. The custom domain name or the workgroup name must be included in the request.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(((?!-)[A-Za-z0-9-]{0,62}[A-Za-z0-9])\.)+((?!-)[A-Za-z0-9-]{1,62}[A-Za-z0-9])$`

Required: No

dbName

The name of the database to get temporary authorization to log on to.

Constraints:

- Must be 1 to 64 alphanumeric characters or hyphens.
- Must contain only uppercase or lowercase letters, numbers, underscore, plus sign, period (dot), at symbol (@), or hyphen.
- The first character must be a letter.
- Must not contain a colon (:) or slash (/).
- Cannot be a reserved word. A list of reserved words can be found in [Reserved Words](#) in the Amazon Redshift Database Developer Guide

Type: String

Required: No

durationSeconds

The number of seconds until the returned temporary password expires. The minimum is 900 seconds, and the maximum is 3600 seconds.

Type: Integer

Required: No

workgroupName

The name of the workgroup associated with the database.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: No

Response Syntax

```
{
```



```
"dbPassword": "string",  
"dbUser": "string",  
"expiration": number,  
"nextRefreshTime": number  
}
```

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.

dbPassword

A temporary password that authorizes the user name returned by `DbUser` to log on to the database `DbName`.

Type: String

dbUser

A database user name that is authorized to log on to the database `DbName` using the password `DbPassword`. If the specified `DbUser` exists in the database, the new user name has the same database privileges as the the user named in `DbUser`. By default, the user is added to PUBLIC.

Type: String

expiration

The date and time the password in `DbPassword` expires.

Type: Timestamp

nextRefreshTime

The date and time of when the `DbUser` and `DbPassword` authorization refreshes.

Type: Timestamp

Errors

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

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

GetCustomDomainAssociation

Gets information about a specific custom domain association.

Request Syntax

```
{  
  "customDomainName": "string",  
  "workgroupName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

customDomainName

The custom domain name associated with the workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(((?!-)[A-Za-z0-9-]{0,62}[A-Za-z0-9])\.)+((?!-)[A-Za-z0-9-]{1,62}[A-Za-z0-9])$`

Required: Yes

workgroupName

The name of the workgroup associated with the database.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{
  "customDomainCertificateArn": "string",
  "customDomainCertificateExpiryTime": "string",
  "customDomainName": "string",
  "workgroupName": "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.

customDomainCertificateArn

The custom domain name's certificate Amazon resource name (ARN).

Type: String

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

Pattern: `arn:[\w+=/, .@-]+:acm:[\w+=/, .@-]*:[0-9]+:[\w+=, .@-]+(\/[\w+=, .@-]+)*`

customDomainCertificateExpiryTime

The expiration time for the certificate.

Type: Timestamp

customDomainName

The custom domain name associated with the workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(((?!-)[A-Za-z0-9-]{0,62}[A-Za-z0-9])\.)+(((?!-)[A-Za-z0-9-]{1,62}[A-Za-z0-9])$`

workgroupName

The name of the workgroup associated with the database.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerError

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

GetEndpointAccess

Returns information, such as the name, about a VPC endpoint.

Request Syntax

```
{
  "endpointName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

endpointName

The name of the VPC endpoint to return information for.

Type: String

Required: Yes

Response Syntax

```
{
  "endpoint": {
    "address": "string",
    "endpointArn": "string",
    "endpointCreateTime": "string",
    "endpointName": "string",
    "endpointStatus": "string",
    "port": number,
    "subnetIds": [ "string" ],
    "vpcEndpoint": {
      "networkInterfaces": [
        {
          "availabilityZone": "string",
          "networkInterfaceId": "string",
          "privateIpAddress": "string",
```

```
        "subnetId": "string"
      }
    ],
    "vpcEndpointId": "string",
    "vpcId": "string"
  },
  "vpcSecurityGroups": [
    {
      "status": "string",
      "vpcSecurityGroupId": "string"
    }
  ],
  "workgroupName": "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.

endpoint

The returned VPC endpoint.

Type: [EndpointAccess](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

GetNamespace

Returns information about a namespace in Amazon Redshift Serverless.

Request Syntax

```
{  
  "namespaceName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

namespaceName

The name of the namespace to retrieve information for.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{  
  "namespace": {  
    "adminPasswordSecretArn": "string",  
    "adminPasswordSecretKmsKeyId": "string",  
    "adminUsername": "string",  
    "creationDate": "string",  
    "dbName": "string",  
    "defaultIamRoleArn": "string",  
    "iamRoles": [ "string" ],  
  }  
}
```

```
"kmsKeyId": "string",
"logExports": [ "string" ],
"namespaceArn": "string",
"namespaceId": "string",
"namespaceName": "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.

namespace

The returned namespace object.

Type: [Namespace](#) object

Errors

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

InternalServerError

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

GetRecoveryPoint

Returns information about a recovery point.

Request Syntax

```
{  
  "recoveryPointId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

recoveryPointId

The unique identifier of the recovery point to return information for.

Type: String

Required: Yes

Response Syntax

```
{  
  "recoveryPoint": {  
    "namespaceArn": "string",  
    "namespaceName": "string",  
    "recoveryPointCreateTime": "string",  
    "recoveryPointId": "string",  
    "totalSizeInMegaBytes": number,  
    "workgroupName": "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.

recoveryPoint

The returned recovery point object.

Type: [RecoveryPoint](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetResourcePolicy

Returns a resource policy.

Request Syntax

```
{  
  "resourceArn": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

resourceArn

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

Type: String

Required: Yes

Response Syntax

```
{  
  "resourcePolicy": {  
    "policy": "string",  
    "resourceArn": "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.

[resourcePolicy](#)

The returned resource policy.

Type: [ResourcePolicy](#) object

Errors

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

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

GetScheduledAction

Returns information about a scheduled action.

Request Syntax

```
{  
  "scheduledActionName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

scheduledActionName

The name of the scheduled action.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 60.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{  
  "scheduledAction": {  
    "endTime": number,  
    "namespaceName": "string",  
    "nextInvocations": [ number ],  
    "roleArn": "string",  
    "schedule": { ... },  
    "scheduledActionDescription": "string",  
    "scheduledActionName": "string",  
    "scheduledActionUuid": "string",  
    "startTime": number,  
  }
```

```
    "state": "string",  
    "targetAction": { ... }  
  }  
}
```

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.

scheduledAction

The returned scheduled action object.

Type: [ScheduledActionResponse](#) object

Errors

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

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

GetSnapshot

Returns information about a specific snapshot.

Request Syntax

```
{  
  "ownerAccount": "string",  
  "snapshotArn": "string",  
  "snapshotName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

ownerAccount

The owner AWS account of a snapshot shared with another user.

Type: String

Required: No

snapshotArn

The Amazon Resource Name (ARN) of the snapshot to return.

Type: String

Required: No

snapshotName

The name of the snapshot to return.

Type: String

Required: No

Response Syntax

```
{
  "snapshot": {
    "accountsWithProvisionedRestoreAccess": [ "string" ],
    "accountsWithRestoreAccess": [ "string" ],
    "actualIncrementalBackupSizeInMegaBytes": number,
    "adminPasswordSecretArn": "string",
    "adminPasswordSecretKmsKeyId": "string",
    "adminUsername": "string",
    "backupProgressInMegaBytes": number,
    "currentBackupRateInMegaBytesPerSecond": number,
    "elapsedTimeInSeconds": number,
    "estimatedSecondsToCompletion": number,
    "kmsKeyId": "string",
    "namespaceArn": "string",
    "namespaceName": "string",
    "ownerAccount": "string",
    "snapshotArn": "string",
    "snapshotCreateTime": "string",
    "snapshotName": "string",
    "snapshotRemainingDays": number,
    "snapshotRetentionPeriod": number,
    "snapshotRetentionStartTime": "string",
    "status": "string",
    "totalBackupSizeInMegaBytes": number
  }
}
```

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.

snapshot

The returned snapshot object.

Type: [Snapshot](#) object

Errors

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

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

GetTableRestoreStatus

Returns information about a TableRestoreStatus object.

Request Syntax

```
{  
  "tableRestoreRequestId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[tableRestoreRequestId](#)

The ID of the RestoreTableFromSnapshot request to return status for.

Type: String

Required: Yes

Response Syntax

```
{  
  "tableRestoreStatus": {  
    "message": "string",  
    "namespaceName": "string",  
    "newTableName": "string",  
    "progressInMegaBytes": number,  
    "recoveryPointId": "string",  
    "requestTime": number,  
    "snapshotName": "string",  
    "sourceDatabaseName": "string",  
    "sourceSchemaName": "string",  
    "sourceTableName": "string",  
    "status": "string",  
    "tableRestoreRequestId": "string",  
    "targetDatabaseName": "string",  
  }  
}
```

```
"targetSchemaName": "string",  
"totalDataInMegaBytes": number,  
"workgroupName": "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.

tableRestoreStatus

The returned `TableRestoreStatus` object that contains information about the status of your `RestoreTableFromSnapshot` request.

Type: [TableRestoreStatus](#) object

Errors

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

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetUsageLimit

Returns information about a usage limit.

Request Syntax

```
{  
  "usageLimitId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

usageLimitId

The unique identifier of the usage limit to return information for.

Type: String

Required: Yes

Response Syntax

```
{  
  "usageLimit": {  
    "amount": number,  
    "breachAction": "string",  
    "period": "string",  
    "resourceArn": "string",  
    "usageLimitArn": "string",  
    "usageLimitId": "string",  
    "usageType": "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.

usageLimit

The returned usage limit object.

Type: [UsageLimit](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetWorkgroup

Returns information about a specific workgroup.

Request Syntax

```
{  
  "workgroupName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

workgroupName

The name of the workgroup to return information for.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{  
  "workgroup": {  
    "baseCapacity": number,  
    "configParameters": [  
      {  
        "parameterKey": "string",  
        "parameterValue": "string"  
      }  
    ],  
    "creationDate": "string",
```

```

    "crossAccountVpcs": [ "string" ],
    "customDomainCertificateArn": "string",
    "customDomainCertificateExpiryTime": "string",
    "customDomainName": "string",
    "endpoint": {
      "address": "string",
      "port": number,
      "vpcEndpoints": [
        {
          "networkInterfaces": [
            {
              "availabilityZone": "string",
              "networkInterfaceId": "string",
              "privateIpAddress": "string",
              "subnetId": "string"
            }
          ],
          "vpcEndpointId": "string",
          "vpcId": "string"
        }
      ]
    },
    "enhancedVpcRouting": boolean,
    "maxCapacity": number,
    "namespaceName": "string",
    "patchVersion": "string",
    "port": number,
    "publiclyAccessible": boolean,
    "securityGroupIds": [ "string" ],
    "status": "string",
    "subnetIds": [ "string" ],
    "workgroupArn": "string",
    "workgroupId": "string",
    "workgroupName": "string",
    "workgroupVersion": "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.

workgroup

The returned workgroup object.

Type: [Workgroup](#) object

Errors

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

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

ListCustomDomainAssociations

Lists custom domain associations for Amazon Redshift Serverless.

Request Syntax

```
{  
  "customDomainCertificateArn": "string",  
  "customDomainName": "string",  
  "maxResults": number,  
  "nextToken": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

customDomainCertificateArn

The custom domain name's certificate Amazon resource name (ARN).

Type: String

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

Pattern: `arn:[\w+=/, .@-]+:acm:[\w+=/, .@-]*:[0-9]+:[\w+=, .@-]+(\/[\w+=, .@-]+)*`

Required: No

customDomainName

The custom domain name associated with the workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(((?!-)[A-Za-z0-9-]{0,62}[A-Za-z0-9])\.)+(((?!-)[A-Za-z0-9-]{1,62}[A-Za-z0-9])$`

Required: No

maxResults

An optional parameter that specifies the maximum number of results to return. You can use `nextToken` to display the next page of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

When `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 1024.

Required: No

Response Syntax

```
{
  "associations": [
    {
      "customDomainCertificateArn": "string",
      "customDomainCertificateExpiryTime": "string",
      "customDomainName": "string",
      "workgroupName": "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.

associations

A list of Association objects.

Type: Array of [Association](#) objects

nextToken

When nextToken is returned, there are more results available. The value of nextToken is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 1024.

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

InternalServerError

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

HTTP Status Code: 500

InvalidPaginationException

The provided pagination token is invalid.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

ListEndpointAccess

Returns an array of EndpointAccess objects and relevant information.

Request Syntax

```
{  
  "maxResults": number,  
  "nextToken": "string",  
  "ownerAccount": "string",  
  "vpcId": "string",  
  "workgroupName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[maxResults](#)

An optional parameter that specifies the maximum number of results to return. You can use nextToken to display the next page of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[nextToken](#)

If your initial ListEndpointAccess operation returns a nextToken, you can include the returned nextToken in following ListEndpointAccess operations, which returns results in the next page.

Type: String

Required: No

[ownerAccount](#)

The owner AWS account for the Amazon Redshift Serverless workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: (\d{12})

Required: No

vpcId

The unique identifier of the virtual private cloud with access to Amazon Redshift Serverless.

Type: String

Required: No

workgroupName

The name of the workgroup associated with the VPC endpoint to return.

Type: String

Required: No

Response Syntax

```
{
  "endpoints": [
    {
      "address": "string",
      "endpointArn": "string",
      "endpointCreateTime": "string",
      "endpointName": "string",
      "endpointStatus": "string",
      "port": number,
      "subnetIds": [ "string" ],
      "vpcEndpoint": {
        "networkInterfaces": [
          {
            "availabilityZone": "string",
            "networkInterfaceId": "string",
            "privateIpAddress": "string",
            "subnetId": "string"
          }
        ]
      }
    }
  ]
}
```



```
    ],
    "vpcEndpointId": "string",
    "vpcId": "string"
  },
  "vpcSecurityGroups": [
    {
      "status": "string",
      "vpcSecurityGroupId": "string"
    }
  ],
  "workgroupName": "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.

endpoints

The returned VPC endpoints.

Type: Array of [EndpointAccess](#) objects

nextToken

When nextToken is returned, there are more results available. The value of nextToken is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

ListNamespaces

Returns information about a list of specified namespaces.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

[maxResults](#)

An optional parameter that specifies the maximum number of results to return. You can use `nextToken` to display the next page of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[nextToken](#)

If your initial `ListNamespaces` operation returns a `nextToken`, you can include the returned `nextToken` in following `ListNamespaces` operations, which returns results in the next page.

Type: String

Required: No

Response Syntax

```
{  
  "namespaces": [  
    ...  
  ]  
}
```

```
{
  "adminPasswordSecretArn": "string",
  "adminPasswordSecretKmsKeyId": "string",
  "adminUsername": "string",
  "creationDate": "string",
  "dbName": "string",
  "defaultIamRoleArn": "string",
  "iamRoles": [ "string" ],
  "kmsKeyId": "string",
  "logExports": [ "string" ],
  "namespaceArn": "string",
  "namespaceId": "string",
  "namespaceName": "string",
  "status": "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.

namespaces

The list of returned namespaces.

Type: Array of [Namespace](#) objects

nextToken

When nextToken is returned, there are more results available. The value of nextToken is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Errors

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

InternalServerErrorException

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

HTTP Status Code: 500

ValidationException

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

HTTP Status Code: 400

See Also

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

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

ListRecoveryPoints

Returns an array of recovery points.

Request Syntax

```
{  
  "endTime": number,  
  "maxResults": number,  
  "namespaceArn": "string",  
  "namespaceName": "string",  
  "nextToken": "string",  
  "startTime": number  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

endTime

The time when creation of the recovery point finished.

Type: Timestamp

Required: No

maxResults

An optional parameter that specifies the maximum number of results to return. You can use `nextToken` to display the next page of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

namespaceArn

The Amazon Resource Name (ARN) of the namespace from which to list recovery points.

Type: String

Required: No

namespaceName

The name of the namespace to list recovery points for.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: No

nextToken

If your initial `ListRecoveryPoints` operation returns a `nextToken`, you can include the returned `nextToken` in following `ListRecoveryPoints` operations, which returns results in the next page.

Type: String

Required: No

startTime

The time when the recovery point's creation was initiated.

Type: Timestamp

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "recoveryPoints": [
    {
      "namespaceArn": "string",
      "namespaceName": "string",
      "recoveryPointCreateTime": "string",
```

```
    "recoveryPointId": "string",
    "totalSizeInMegabytes": number,
    "workgroupName": "string"
  }
]
```

Response Elements

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

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

nextToken

If nextToken is returned, there are more results available. The value of nextToken is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

recoveryPoints

The returned recovery point objects.

Type: Array of [RecoveryPoint](#) objects

Errors

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

InternalServerError

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

HTTP Status Code: 500

ValidationException

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

HTTP Status Code: 400

See Also

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

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

ListScheduledActions

Returns a list of scheduled actions. You can use the flags to filter the list of returned scheduled actions.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

[maxResults](#)

An optional parameter that specifies the maximum number of results to return. Use `nextToken` to display the next page of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[namespaceName](#)

The name of namespace associated with the scheduled action to retrieve.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: No

nextToken

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 1024.

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "scheduledActions": [
    {
      "namespaceName": "string",
      "scheduledActionName": "string"
    }
  ]
}
```

Response Elements

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

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

nextToken

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 1024.

scheduledActions

All of the returned scheduled action association objects.

Type: Array of [ScheduledActionAssociation](#) objects

Errors

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

InternalServerErrorException

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

HTTP Status Code: 500

InvalidPaginationException

The provided pagination token is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

ListSnapshotCopyConfigurations

Returns a list of snapshot copy configurations.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

An optional parameter that specifies the maximum number of results to return. You can use `nextToken` to display the next page of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

namespaceName

The namespace from which to list all snapshot copy configurations.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: No

nextToken

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 1024.

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "snapshotCopyConfigurations": [
    {
      "destinationKmsKeyId": "string",
      "destinationRegion": "string",
      "namespaceName": "string",
      "snapshotCopyConfigurationArn": "string",
      "snapshotCopyConfigurationId": "string",
      "snapshotRetentionPeriod": number
    }
  ]
}
```

Response Elements

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

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

nextToken

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 1024.

snapshotCopyConfigurations

All of the returned snapshot copy configurations.

Type: Array of [SnapshotCopyConfiguration](#) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

InvalidPaginationException

The provided pagination token is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

ListSnapshots

Returns a list of snapshots.

Request Syntax

```
{
  "endTime": number,
  "maxResults": number,
  "namespaceArn": "string",
  "namespaceName": "string",
  "nextToken": "string",
  "ownerAccount": "string",
  "startTime": number
}
```

Request Parameters

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

The request accepts the following data in JSON format.

endTime

The timestamp showing when the snapshot creation finished.

Type: Timestamp

Required: No

maxResults

An optional parameter that specifies the maximum number of results to return. You can use `nextToken` to display the next page of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

namespaceArn

The Amazon Resource Name (ARN) of the namespace from which to list all snapshots.

Type: String

Required: No

namespaceName

The namespace from which to list all snapshots.

Type: String

Required: No

nextToken

If `nextToken` is returned, there are more results available. The value of `nextToken` is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Required: No

ownerAccount

The owner AWS account of the snapshot.

Type: String

Required: No

startTime

The time when the creation of the snapshot was initiated.

Type: Timestamp

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "snapshots": [
    {
      "accountsWithProvisionedRestoreAccess": [ "string" ],
```

```

    "accountsWithRestoreAccess": [ "string" ],
    "actualIncrementalBackupSizeInMegaBytes": number,
    "adminPasswordSecretArn": "string",
    "adminPasswordSecretKmsKeyId": "string",
    "adminUsername": "string",
    "backupProgressInMegaBytes": number,
    "currentBackupRateInMegaBytesPerSecond": number,
    "elapsedTimeInSeconds": number,
    "estimatedSecondsToCompletion": number,
    "kmsKeyId": "string",
    "namespaceArn": "string",
    "namespaceName": "string",
    "ownerAccount": "string",
    "snapshotArn": "string",
    "snapshotCreateTime": "string",
    "snapshotName": "string",
    "snapshotRemainingDays": number,
    "snapshotRetentionPeriod": number,
    "snapshotRetentionStartTime": "string",
    "status": "string",
    "totalBackupSizeInMegaBytes": number
  }
]
}

```

Response Elements

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

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

nextToken

If nextToken is returned, there are more results available. The value of nextToken is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

snapshots

All of the returned snapshot objects.

Type: Array of [Snapshot](#) objects

Errors

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

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

ListTableRestoreStatus

Returns information about an array of TableRestoreStatus objects.

Request Syntax

```
{  
  "maxResults": number,  
  "namespaceName": "string",  
  "nextToken": "string",  
  "workgroupName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[maxResults](#)

An optional parameter that specifies the maximum number of results to return. You can use `nextToken` to display the next page of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

[namespaceName](#)

The namespace from which to list all of the statuses of `RestoreTableFromSnapshot` operations .

Type: String

Required: No

[nextToken](#)

If your initial `ListTableRestoreStatus` operation returns a `nextToken`, you can include the returned `nextToken` in following `ListTableRestoreStatus` operations. This will return results on the next page.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 1024.

Required: No

workgroupName

The workgroup from which to list all of the statuses of RestoreTableFromSnapshot operations.

Type: String

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "tableRestoreStatuses": [
    {
      "message": "string",
      "namespaceName": "string",
      "newTableName": "string",
      "progressInMegaBytes": number,
      "recoveryPointId": "string",
      "requestTime": number,
      "snapshotName": "string",
      "sourceDatabaseName": "string",
      "sourceSchemaName": "string",
      "sourceTableName": "string",
      "status": "string",
      "tableRestoreRequestId": "string",
      "targetDatabaseName": "string",
      "targetSchemaName": "string",
      "totalDataInMegaBytes": number,
      "workgroupName": "string"
    }
  ]
}
```

Response Elements

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

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

nextToken

If your initial `ListTableRestoreStatus` operation returns a `nextToken`, you can include the returned `nextToken` in following `ListTableRestoreStatus` operations. This will return results on the next page.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 1024.

tableRestoreStatuses

The array of returned `TableRestoreStatus` objects.

Type: Array of [TableRestoreStatus](#) objects

Errors

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

InvalidPaginationException

The provided pagination token is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

ListTagsForResource

Lists the tags assigned to a resource.

Request Syntax

```
{  
  "resourceArn": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) of the resource to list tags for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

Response Syntax

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

Response Elements

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

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

tags

A map of the key-value pairs assigned to the resource.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Errors

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

InternalServerError

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListUsageLimits

Lists all usage limits within Amazon Redshift Serverless.

Request Syntax

```
{  
  "maxResults": number,  
  "nextToken": "string",  
  "resourceArn": "string",  
  "usageType": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

An optional parameter that specifies the maximum number of results to return. You can use `nextToken` to get the next page of results. The default is 100.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

If your initial `ListUsageLimits` operation returns a `nextToken`, you can include the returned `nextToken` in following `ListUsageLimits` operations, which returns results in the next page.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 1024.

Required: No

resourceArn

The Amazon Resource Name (ARN) associated with the resource whose usage limits you want to list.

Type: String

Required: No

usageType

The Amazon Redshift Serverless feature whose limits you want to see.

Type: String

Valid Values: `serverless-compute` | `cross-region-datasharing`

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "usageLimits": [
    {
      "amount": number,
      "breachAction": "string",
      "period": "string",
      "resourceArn": "string",
      "usageLimitArn": "string",
      "usageLimitId": "string",
      "usageType": "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

When nextToken is returned, there are more results available. The value of nextToken is a unique pagination token for each page. Make the call again using the returned token to retrieve the next page.

Type: String

Length Constraints: Minimum length of 8. Maximum length of 1024.

usageLimits

An array of returned usage limit objects.

Type: Array of [UsageLimit](#) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

InvalidPaginationException

The provided pagination token is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

ListWorkgroups

Returns information about a list of specified workgroups.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

maxResults

An optional parameter that specifies the maximum number of results to return. You can use `nextToken` to display the next page of results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

nextToken

If your initial `ListWorkgroups` operation returns a `nextToken`, you can include the returned `nextToken` in following `ListNamespaces` operations, which returns results in the next page.

Type: String

Required: No

ownerAccount

The owner AWS account for the Amazon Redshift Serverless workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 12.

Pattern: (\d{12})

Required: No

Response Syntax

```
{
  "nextToken": "string",
  "workgroups": [
    {
      "baseCapacity": number,
      "configParameters": [
        {
          "parameterKey": "string",
          "parameterValue": "string"
        }
      ],
      "creationDate": "string",
      "crossAccountVpcs": [ "string" ],
      "customDomainCertificateArn": "string",
      "customDomainCertificateExpiryTime": "string",
      "customDomainName": "string",
      "endpoint": {
        "address": "string",
        "port": number,
        "vpcEndpoints": [
          {
            "networkInterfaces": [
              {
                "availabilityZone": "string",
                "networkInterfaceId": "string",
                "privateIpAddress": "string",
                "subnetId": "string"
              }
            ],
            "vpcEndpointId": "string",
            "vpcId": "string"
          }
        ]
      },
      "enhancedVpcRouting": boolean,
```

```
    "maxCapacity": number,
    "namespaceName": "string",
    "patchVersion": "string",
    "port": number,
    "publiclyAccessible": boolean,
    "securityGroupIds": [ "string" ],
    "status": "string",
    "subnetIds": [ "string" ],
    "workgroupArn": "string",
    "workgroupId": "string",
    "workgroupName": "string",
    "workgroupVersion": "string"
  }
]
}
```

Response Elements

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

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

nextToken

If nextToken is returned, there are more results available. The value of nextToken is a unique pagination token for each page. To retrieve the next page, make the call again using the returned token.

Type: String

workgroups

The returned array of workgroups.

Type: Array of [Workgroup](#) objects

Errors

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

InternalServerError

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

HTTP Status Code: 500

ValidationException

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

HTTP Status Code: 400

See Also

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

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

PutResourcePolicy

Creates or updates a resource policy. Currently, you can use policies to share snapshots across AWS accounts.

Request Syntax

```
{  
  "policy": "string",  
  "resourceArn": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

policy

The policy to create or update. For example, the following policy grants a user authorization to restore a snapshot.

```
"{\\"Version\\": \\"2012-10-17\\", \\"Statement\\" : [{ \\"Sid\\": \\"AllowUserRestoreFromSnapshot\\", \\"Principal\\": {\\"AWS\\": [\\"739247239426\\"]}, \\"Action\\": [\\"redshift-serverless:RestoreFromSnapshot\\"], \\"Effect\\": \\"Allow\\" }]}"
```

Type: String

Required: Yes

resourceArn

The Amazon Resource Name (ARN) of the account to create or update a resource policy for.

Type: String

Required: Yes

Response Syntax

```
{
  "resourcePolicy": {
    "policy": "string",
    "resourceArn": "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.

resourcePolicy

The policy that was created or updated.

Type: [ResourcePolicy](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ServiceQuotaExceededException

The service limit was exceeded.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

RestoreFromRecoveryPoint

Restore the data from a recovery point.

Request Syntax

```
{  
  "namespaceName": "string",  
  "recoveryPointId": "string",  
  "workgroupName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

namespaceName

The name of the namespace to restore data into.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

recoveryPointId

The unique identifier of the recovery point to restore from.

Type: String

Required: Yes

workgroupName

The name of the workgroup used to restore data.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{
  "namespace": {
    "adminPasswordSecretArn": "string",
    "adminPasswordSecretKmsKeyId": "string",
    "adminUsername": "string",
    "creationDate": "string",
    "dbName": "string",
    "defaultIamRoleArn": "string",
    "iamRoles": [ "string" ],
    "kmsKeyId": "string",
    "logExports": [ "string" ],
    "namespaceArn": "string",
    "namespaceId": "string",
    "namespaceName": "string",
    "status": "string"
  },
  "recoveryPointId": "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.

namespace

The namespace that data was restored into.

Type: [Namespace](#) object

recoveryPointId

The unique identifier of the recovery point used for the restore.

Type: String

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

RestoreFromSnapshot

Restores a namespace from a snapshot.

Request Syntax

```
{
  "adminPasswordSecretKmsKeyId": "string",
  "manageAdminPassword": boolean,
  "namespaceName": "string",
  "ownerAccount": "string",
  "snapshotArn": "string",
  "snapshotName": "string",
  "workgroupName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[adminPasswordSecretKmsKeyId](#)

The ID of the AWS Key Management Service (KMS) key used to encrypt and store the namespace's admin credentials secret.

Type: String

Required: No

[manageAdminPassword](#)

If `true`, Amazon Redshift uses AWS Secrets Manager to manage the restored snapshot's admin credentials. If `manageAdminPassword` is `false` or not set, Amazon Redshift uses the admin credentials that the namespace or cluster had at the time the snapshot was taken.

Type: Boolean

Required: No

[namespaceName](#)

The name of the namespace to restore the snapshot to.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

ownerAccount

The AWS account that owns the snapshot.

Type: String

Required: No

snapshotArn

The Amazon Resource Name (ARN) of the snapshot to restore from. Required if restoring from Amazon Redshift Serverless to a provisioned cluster. Must not be specified at the same time as `snapshotName`.

The format of the ARN is `arn:aws:redshift:<region>:<account_id>:snapshot:<cluster_identifier>/<snapshot_identifier>`.

Type: String

Required: No

snapshotName

The name of the snapshot to restore from. Must not be specified at the same time as `snapshotArn`.

Type: String

Required: No

workgroupName

The name of the workgroup used to restore the snapshot.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{
  "namespace": {
    "adminPasswordSecretArn": "string",
    "adminPasswordSecretKmsKeyId": "string",
    "adminUsername": "string",
    "creationDate": "string",
    "dbName": "string",
    "defaultIamRoleArn": "string",
    "iamRoles": [ "string" ],
    "kmsKeyId": "string",
    "logExports": [ "string" ],
    "namespaceArn": "string",
    "namespaceId": "string",
    "namespaceName": "string",
    "status": "string"
  },
  "ownerAccount": "string",
  "snapshotName": "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.

namespace

A collection of database objects and users.

Type: [Namespace](#) object

ownerAccount

The owner AWS; account of the snapshot that was restored.

Type: String

snapshotName

The name of the snapshot used to restore the namespace.

Type: String

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ServiceQuotaExceededException

The service limit was exceeded.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

RestoreTableFromRecoveryPoint

Restores a table from a recovery point to your Amazon Redshift Serverless instance. You can't use this operation to restore tables with interleaved sort keys.

Request Syntax

```
{
  "activateCaseSensitiveIdentifier": boolean,
  "namespaceName": "string",
  "newTableName": "string",
  "recoveryPointId": "string",
  "sourceDatabaseName": "string",
  "sourceSchemaName": "string",
  "sourceTableName": "string",
  "targetDatabaseName": "string",
  "targetSchemaName": "string",
  "workgroupName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[activateCaseSensitiveIdentifier](#)

Indicates whether name identifiers for database, schema, and table are case sensitive. If true, the names are case sensitive. If false, the names are not case sensitive. The default is false.

Type: Boolean

Required: No

[namespaceName](#)

Namespace of the recovery point to restore from.

Type: String

Required: Yes

newTableName

The name of the table to create from the restore operation.

Type: String

Required: Yes

recoveryPointId

The ID of the recovery point to restore the table from.

Type: String

Required: Yes

sourceDatabaseName

The name of the source database that contains the table being restored.

Type: String

Required: Yes

sourceSchemaName

The name of the source schema that contains the table being restored.

Type: String

Required: No

sourceTableName

The name of the source table being restored.

Type: String

Required: Yes

targetDatabaseName

The name of the database to restore the table to.

Type: String

Required: No

targetSchemaName

The name of the schema to restore the table to.

Type: String

Required: No

workgroupName

The workgroup to restore the table to.

Type: String

Required: Yes

Response Syntax

```
{
  "tableRestoreStatus": {
    "message": "string",
    "namespaceName": "string",
    "newTableName": "string",
    "progressInMegaBytes": number,
    "recoveryPointId": "string",
    "requestTime": number,
    "snapshotName": "string",
    "sourceDatabaseName": "string",
    "sourceSchemaName": "string",
    "sourceTableName": "string",
    "status": "string",
    "tableRestoreRequestId": "string",
    "targetDatabaseName": "string",
    "targetSchemaName": "string",
    "totalDataInMegaBytes": number,
    "workgroupName": "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.

[tableRestoreStatus](#)

Contains information about a table restore request.

Type: [TableRestoreStatus](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

RestoreTableFromSnapshot

Restores a table from a snapshot to your Amazon Redshift Serverless instance. You can't use this operation to restore tables with [interleaved sort keys](#).

Request Syntax

```
{
  "activateCaseSensitiveIdentifier": boolean,
  "namespaceName": "string",
  "newTableName": "string",
  "snapshotName": "string",
  "sourceDatabaseName": "string",
  "sourceSchemaName": "string",
  "sourceTableName": "string",
  "targetDatabaseName": "string",
  "targetSchemaName": "string",
  "workgroupName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[activateCaseSensitiveIdentifier](#)

Indicates whether name identifiers for database, schema, and table are case sensitive. If true, the names are case sensitive. If false, the names are not case sensitive. The default is false.

Type: Boolean

Required: No

[namespaceName](#)

The namespace of the snapshot to restore from.

Type: String

Required: Yes

newTableName

The name of the table to create from the restore operation.

Type: String

Required: Yes

snapshotName

The name of the snapshot to restore the table from.

Type: String

Required: Yes

sourceDatabaseName

The name of the source database that contains the table being restored.

Type: String

Required: Yes

sourceSchemaName

The name of the source schema that contains the table being restored.

Type: String

Required: No

sourceTableName

The name of the source table being restored.

Type: String

Required: Yes

targetDatabaseName

The name of the database to restore the table to.

Type: String

Required: No

targetSchemaName

The name of the schema to restore the table to.

Type: String

Required: No

workgroupName

The workgroup to restore the table to.

Type: String

Required: Yes

Response Syntax

```
{
  "tableRestoreStatus": {
    "message": "string",
    "namespaceName": "string",
    "newTableName": "string",
    "progressInMegaBytes": number,
    "recoveryPointId": "string",
    "requestTime": number,
    "snapshotName": "string",
    "sourceDatabaseName": "string",
    "sourceSchemaName": "string",
    "sourceTableName": "string",
    "status": "string",
    "tableRestoreRequestId": "string",
    "targetDatabaseName": "string",
    "targetSchemaName": "string",
    "totalDataInMegaBytes": number,
    "workgroupName": "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.

[tableRestoreStatus](#)

The TableRestoreStatus object that contains the status of the restore operation.

Type: [TableRestoreStatus](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

TagResource

Assigns one or more tags to a resource.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

resourceArn

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

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

tags

The map of the key-value pairs used to tag the resource.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: Yes

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](#).

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

TooManyTagsException

The request exceeded the number of tags allowed for a resource.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UntagResource

Removes a tag or set of tags from a resource.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

resourceArn

The Amazon Resource Name (ARN) of the resource to remove tags from.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

tagKeys

The tag or set of tags to remove from the resource.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 200 items.

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

Required: Yes

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](#).

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

- [AWS SDK for Ruby V3](#)

UpdateCustomDomainAssociation

Updates an Amazon Redshift Serverless certificate associated with a custom domain.

Request Syntax

```
{
  "customDomainCertificateArn": "string",
  "customDomainName": "string",
  "workgroupName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

customDomainCertificateArn

The custom domain name's certificate Amazon resource name (ARN). This is optional.

Type: String

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

Pattern: `arn:[\w+=/, .@-]+ : acm:[\w+=/, .@-]* : [0-9]+ : [\w+=, .@-]+(/[\w+=, .@-]+)*`

Required: Yes

customDomainName

The custom domain name associated with the workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(((?!-)[A-Za-z0-9-]{0,62}[A-Za-z0-9])\.)+(((?!-)[A-Za-z0-9-]{1,62}[A-Za-z0-9])$`

Required: Yes

workgroupName

The name of the workgroup associated with the database.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{
  "customDomainCertificateArn": "string",
  "customDomainCertificateExpiryTime": "string",
  "customDomainName": "string",
  "workgroupName": "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.

customDomainCertificateArn

The custom domain name's certificate Amazon resource name (ARN).

Type: String

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

Pattern: `arn:[\w+=/, .@-]+:acm:[\w+=/, .@-]*:[0-9]+:[\w+=, .@-]+(/[\w+=, .@-]+)*`

customDomainCertificateExpiryTime

The expiration time for the certificate.

Type: Timestamp

customDomainName

The custom domain name associated with the workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(((?!-)[A-Za-z0-9-]{0,62}[A-Za-z0-9])\.)+((?!-)[A-Za-z0-9-]{1,62}[A-Za-z0-9])$`

workgroupName

The name of the workgroup associated with the database.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

UpdateEndpointAccess

Updates an Amazon Redshift Serverless managed endpoint.

Request Syntax

```
{
  "endpointName": "string",
  "vpcSecurityGroupIds": [ "string" ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

endpointName

The name of the VPC endpoint to update.

Type: String

Required: Yes

vpcSecurityGroupIds

The list of VPC security groups associated with the endpoint after the endpoint is modified.

Type: Array of strings

Required: No

Response Syntax

```
{
  "endpoint": {
    "address": "string",
    "endpointArn": "string",
    "endpointCreateTime": "string",
    "endpointName": "string",
    "endpointStatus": "string",
  }
}
```

```
"port": number,
"subnetIds": [ "string" ],
"vpcEndpoint": {
  "networkInterfaces": [
    {
      "availabilityZone": "string",
      "networkInterfaceId": "string",
      "privateIpAddress": "string",
      "subnetId": "string"
    }
  ],
  "vpcEndpointId": "string",
  "vpcId": "string"
},
"vpcSecurityGroups": [
  {
    "status": "string",
    "vpcSecurityGroupId": "string"
  }
],
"workgroupName": "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.

endpoint

The updated VPC endpoint.

Type: [EndpointAccess](#) object

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

UpdateNamespace

Updates a namespace with the specified settings. Unless required, you can't update multiple parameters in one request. For example, you must specify both `adminUsername` and `adminUserPassword` to update either field, but you can't update both `kmsKeyId` and `logExports` in a single request.

Request Syntax

```
{
  "adminPasswordSecretKmsKeyId": "string",
  "adminUsername": "string",
  "adminUserPassword": "string",
  "defaultIamRoleArn": "string",
  "iamRoles": [ "string" ],
  "kmsKeyId": "string",
  "logExports": [ "string" ],
  "manageAdminPassword": boolean,
  "namespaceName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[adminPasswordSecretKmsKeyId](#)

The ID of the AWS Key Management Service (KMS) key used to encrypt and store the namespace's admin credentials secret. You can only use this parameter if `manageAdminPassword` is true.

Type: String

Required: No

[adminUsername](#)

The username of the administrator for the first database created in the namespace. This parameter must be updated together with `adminUserPassword`.

Type: String

Required: No

adminUserPassword

The password of the administrator for the first database created in the namespace. This parameter must be updated together with `adminUsername`.

You can't use `adminUserPassword` if `manageAdminPassword` is true.

Type: String

Required: No

defaultIamRoleArn

The Amazon Resource Name (ARN) of the IAM role to set as a default in the namespace. This parameter must be updated together with `iamRoles`.

Type: String

Required: No

iamRoles

A list of IAM roles to associate with the namespace. This parameter must be updated together with `defaultIamRoleArn`.

Type: Array of strings

Required: No

kmsKeyId

The ID of the AWS Key Management Service key used to encrypt your data.

Type: String

Required: No

logExports

The types of logs the namespace can export. The export types are `userlog`, `connectionlog`, and `useractivitylog`.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 16 items.

Valid Values: useractivitylog | userlog | connectionlog

Required: No

manageAdminPassword

If `true`, Amazon Redshift uses AWS Secrets Manager to manage the namespace's admin credentials. You can't use `adminUserPassword` if `manageAdminPassword` is `true`. If `manageAdminPassword` is `false` or not set, Amazon Redshift uses `adminUserPassword` for the admin user account's password.

Type: Boolean

Required: No

namespaceName

The name of the namespace to update. You can't update the name of a namespace once it is created.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{
  "namespace": {
    "adminPasswordSecretArn": "string",
    "adminPasswordSecretKmsKeyId": "string",
    "adminUsername": "string",
    "creationDate": "string",
    "dbName": "string",
    "defaultIamRoleArn": "string",
    "iamRoles": [ "string" ],
    "kmsKeyId": "string",
    "logExports": [ "string" ],
```

```
"namespaceArn": "string",  
"namespaceId": "string",  
"namespaceName": "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.

namespace

A list of tag instances.

Type: [Namespace](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

UpdateScheduledAction

Updates a scheduled action.

Request Syntax

```
{
  "enabled": boolean,
  "endTime": number,
  "roleArn": "string",
  "schedule": { ... },
  "scheduledActionDescription": "string",
  "scheduledActionName": "string",
  "startTime": number,
  "targetAction": { ... }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

enabled

Specifies whether to enable the scheduled action.

Type: Boolean

Required: No

endTime

The end time in UTC of the scheduled action to update.

Type: Timestamp

Required: No

roleArn

The ARN of the IAM role to assume to run the scheduled action. This IAM role must have permission to run the Amazon Redshift Serverless API operation in the scheduled action.

This IAM role must allow the Amazon Redshift scheduler to schedule creating snapshots (Principal scheduler.redshift.amazonaws.com) to assume permissions on your behalf. For more information about the IAM role to use with the Amazon Redshift scheduler, see [Using Identity-Based Policies for Amazon Redshift](#) in the Amazon Redshift Cluster Management Guide

Type: String

Required: No

[schedule](#)

The schedule for a one-time (at timestamp format) or recurring (cron format) scheduled action. Schedule invocations must be separated by at least one hour. Times are in UTC.

- Format of at timestamp is yyyy-mm-ddThh:mm:ss. For example, 2016-03-04T17:27:00.
- Format of cron expression is (Minutes Hours Day-of-month Month Day-of-week Year). For example, "(0 10 ? * MON *)". For more information, see [Cron Expressions](#) in the *Amazon CloudWatch Events User Guide*.

Type: [Schedule](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

[scheduledActionDescription](#)

The description of the scheduled action to update to.

Type: String

Required: No

[scheduledActionName](#)

The name of the scheduled action to update to.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 60.

Pattern: `^[a-z0-9-]+$`

Required: Yes

startTime

The start time in UTC of the scheduled action to update to.

Type: Timestamp

Required: No

targetAction

A JSON format string of the Amazon Redshift Serverless API operation with input parameters. The following is an example of a target action.

```
"{"CreateSnapshot": {"NamespaceName": "sampleNamespace", "SnapshotName": "sampleSnapshot", "retentionPeriod": "1"}}"
```

Type: [TargetAction](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

Response Syntax

```
{
  "scheduledAction": {
    "endTime": number,
    "namespaceName": "string",
    "nextInvocations": [ number ],
    "roleArn": "string",
    "schedule": { ... },
    "scheduledActionDescription": "string",
    "scheduledActionName": "string",
    "scheduledActionUuid": "string",
    "startTime": number,
    "state": "string",
    "targetAction": { ... }
  }
}
```

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.

[scheduledAction](#)

The ScheduledAction object that was updated.

Type: [ScheduledActionResponse](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateSnapshot

Updates a snapshot.

Request Syntax

```
{  
  "retentionPeriod": number,  
  "snapshotName": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

retentionPeriod

The new retention period of the snapshot.

Type: Integer

Required: No

snapshotName

The name of the snapshot.

Type: String

Required: Yes

Response Syntax

```
{  
  "snapshot": {  
    "accountsWithProvisionedRestoreAccess": [ "string" ],  
    "accountsWithRestoreAccess": [ "string" ],  
    "actualIncrementalBackupSizeInMegaBytes": number,  
    "adminPasswordSecretArn": "string",
```

```
"adminPasswordSecretKmsKeyId": "string",
"adminUsername": "string",
"backupProgressInMegaBytes": number,
"currentBackupRateInMegaBytesPerSecond": number,
"elapsedTimeInSeconds": number,
"estimatedSecondsToCompletion": number,
"kmsKeyId": "string",
"namespaceArn": "string",
"namespaceName": "string",
"ownerAccount": "string",
"snapshotArn": "string",
"snapshotCreateTime": "string",
"snapshotName": "string",
"snapshotRemainingDays": number,
"snapshotRetentionPeriod": number,
"snapshotRetentionStartTime": "string",
"status": "string",
"totalBackupSizeInMegaBytes": number
}
}
```

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.

snapshot

The updated snapshot object.

Type: [Snapshot](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

UpdateSnapshotCopyConfiguration

Updates a snapshot copy configuration.

Request Syntax

```
{  
  "snapshotCopyConfigurationId": "string",  
  "snapshotRetentionPeriod": number  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

snapshotCopyConfigurationId

The ID of the snapshot copy configuration to update.

Type: String

Required: Yes

snapshotRetentionPeriod

The new retention period of how long to keep a snapshot in the destination AWS Region.

Type: Integer

Required: No

Response Syntax

```
{  
  "snapshotCopyConfiguration": {  
    "destinationKmsKeyId": "string",  
    "destinationRegion": "string",  
    "namespaceName": "string",  
    "snapshotCopyConfigurationArn": "string",  
  }  
}
```

```
"snapshotCopyConfigurationId": "string",  
"snapshotRetentionPeriod": number  
}  
}
```

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.

snapshotCopyConfiguration

The updated snapshot copy configuration object.

Type: [SnapshotCopyConfiguration](#) object

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerError

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

UpdateUsageLimit

Update a usage limit in Amazon Redshift Serverless. You can't update the usage type or period of a usage limit.

Request Syntax

```
{  
  "amount": number,  
  "breachAction": "string",  
  "usageLimitId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

amount

The new limit amount. If time-based, this amount is in Redshift Processing Units (RPU) consumed per hour. If data-based, this amount is in terabytes (TB) of data transferred between Regions in cross-account sharing. The value must be a positive number.

Type: Long

Required: No

breachAction

The new action that Amazon Redshift Serverless takes when the limit is reached.

Type: String

Valid Values: log | emit-metric | deactivate

Required: No

usageLimitId

The identifier of the usage limit to update.

Type: String

Required: Yes

Response Syntax

```
{
  "usageLimit": {
    "amount": number,
    "breachAction": "string",
    "period": "string",
    "resourceArn": "string",
    "usageLimitArn": "string",
    "usageLimitId": "string",
    "usageType": "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.

usageLimit

The updated usage limit object.

Type: [UsageLimit](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerError

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

UpdateWorkgroup

Updates a workgroup with the specified configuration settings. You can't update multiple parameters in one request. For example, you can update `baseCapacity` or `port` in a single request, but you can't update both in the same request.

Request Syntax

```
{
  "baseCapacity": number,
  "configParameters": [
    {
      "parameterKey": "string",
      "parameterValue": "string"
    }
  ],
  "enhancedVpcRouting": boolean,
  "maxCapacity": number,
  "port": number,
  "publiclyAccessible": boolean,
  "securityGroupIds": [ "string" ],
  "subnetIds": [ "string" ],
  "workgroupName": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

baseCapacity

The new base data warehouse capacity in Redshift Processing Units (RPU).

Type: Integer

Required: No

configParameters

An array of parameters to set for advanced control over a database. The options are `auto_mv`, `datestyle`, `enable_case_sensitive_identifier`, `enable_user_activity_logging`,

query_group, search_path, require_ssl, use_fips_ssl, and query monitoring metrics that let you define performance boundaries. For more information about query monitoring rules and available metrics, see [Query monitoring metrics for Amazon Redshift Serverless](#).

Type: Array of [ConfigParameter](#) objects

Required: No

[enhancedVpcRouting](#)

The value that specifies whether to turn on enhanced virtual private cloud (VPC) routing, which forces Amazon Redshift Serverless to route traffic through your VPC.

Type: Boolean

Required: No

[maxCapacity](#)

The maximum data-warehouse capacity Amazon Redshift Serverless uses to serve queries. The max capacity is specified in RPUs.

Type: Integer

Required: No

[port](#)

The custom port to use when connecting to a workgroup. Valid port ranges are 5431-5455 and 8191-8215. The default is 5439.

Type: Integer

Required: No

[publiclyAccessible](#)

A value that specifies whether the workgroup can be accessible from a public network.

Type: Boolean

Required: No

[securityGroupIds](#)

An array of security group IDs to associate with the workgroup.

Type: Array of strings

Required: No

subnetIds

An array of VPC subnet IDs to associate with the workgroup.

Type: Array of strings

Required: No

workgroupName

The name of the workgroup to update. You can't update the name of a workgroup once it is created.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

Response Syntax

```
{
  "workgroup": {
    "baseCapacity": number,
    "configParameters": [
      {
        "parameterKey": "string",
        "parameterValue": "string"
      }
    ],
    "creationDate": "string",
    "crossAccountVpcs": [ "string" ],
    "customDomainCertificateArn": "string",
    "customDomainCertificateExpiryTime": "string",
    "customDomainName": "string",
    "endpoint": {
      "address": "string",
```

```
"port": number,
"vpcEndpoints": [
  {
    "networkInterfaces": [
      {
        "availabilityZone": "string",
        "networkInterfaceId": "string",
        "privateIpAddress": "string",
        "subnetId": "string"
      }
    ],
    "vpcEndpointId": "string",
    "vpcId": "string"
  }
],
"enhancedVpcRouting": boolean,
"maxCapacity": number,
"namespaceName": "string",
"patchVersion": "string",
"port": number,
"publiclyAccessible": boolean,
"securityGroupIds": [ "string" ],
"status": "string",
"subnetIds": [ "string" ],
"workgroupArn": "string",
"workgroupId": "string",
"workgroupName": "string",
"workgroupVersion": "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.

workgroup

The updated workgroup object.

Type: [Workgroup](#) object

Errors

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

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InsufficientCapacityException

There is an insufficient capacity to perform the action.

HTTP Status Code: 400

InternalServerError

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 400

ValidationException

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

HTTP Status Code: 400

See Also

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

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

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

Data Types

The Amazon Redshift Serverless 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:

- [Association](#)
- [ConfigParameter](#)
- [CreateSnapshotScheduleActionParameters](#)
- [Endpoint](#)
- [EndpointAccess](#)
- [Namespace](#)
- [NetworkInterface](#)
- [RecoveryPoint](#)
- [ResourcePolicy](#)
- [Schedule](#)
- [ScheduledActionAssociation](#)
- [ScheduledActionResponse](#)
- [Snapshot](#)
- [SnapshotCopyConfiguration](#)
- [TableRestoreStatus](#)
- [Tag](#)
- [TargetAction](#)
- [UsageLimit](#)
- [VpcEndpoint](#)
- [VpcSecurityGroupMembership](#)

- [Workgroup](#)

Association

An object that represents the custom domain name association.

Contents

customDomainCertificateArn

The custom domain name's certificate Amazon resource name (ARN).

Type: String

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

Pattern: `arn:[\w+=/, .@-]+:acm:[\w+=/, .@-]*:[0-9]+:[\w+=, .@-]+(\/[\w+=, .@-]+)*`

Required: No

customDomainCertificateExpiryTime

The expiration time for the certificate.

Type: Timestamp

Required: No

customDomainName

The custom domain name associated with the workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(((?!-)[A-Za-z0-9-]{0,62}[A-Za-z0-9])\.)+((?!-)[A-Za-z0-9-]{1,62}[A-Za-z0-9])$`

Required: No

workgroupName

The name of the workgroup associated with the database.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-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 Java V2](#)
- [AWS SDK for Ruby V3](#)

ConfigParameter

An array of key-value pairs to set for advanced control over Amazon Redshift Serverless.

Contents

parameterKey

The key of the parameter. The options are `auto_mv`, `datestyle`, `enable_case_sensitive_identifier`, `enable_user_activity_logging`, `query_group`, `search_path`, `require_ssl`, `use_fips_ssl`, and query monitoring metrics that let you define performance boundaries. For more information about query monitoring rules and available metrics, see [Query monitoring metrics for Amazon Redshift Serverless](#).

Type: String

Required: No

parameterValue

The value of the parameter to set.

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

CreateSnapshotScheduleActionParameters

The parameters that you can use to configure a [scheduled action](#) to create a snapshot. For more information about creating a scheduled action, see [CreateScheduledAction](#).

Contents

namespaceName

The name of the namespace for which you want to configure a scheduled action to create a snapshot.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: Yes

snapshotNamePrefix

A string prefix that is attached to the name of the snapshot created by the scheduled action. The final name of the snapshot is the string prefix appended by the date and time of when the snapshot was created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 235.

Required: Yes

retentionPeriod

The retention period of the snapshot created by the scheduled action.

Type: Integer

Required: No

tags

An array of [Tag objects](#) to associate with the snapshot.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

See Also

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

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

Endpoint

The VPC endpoint object.

Contents

address

The DNS address of the VPC endpoint.

Type: String

Required: No

port

The port that Amazon Redshift Serverless listens on.

Type: Integer

Required: No

vpcEndpoints

An array of VpcEndpoint objects.

Type: Array of [VpcEndpoint](#) 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 Java V2](#)
- [AWS SDK for Ruby V3](#)

EndpointAccess

Information about an Amazon Redshift Serverless VPC endpoint.

Contents

address

The DNS address of the endpoint.

Type: String

Required: No

endpointArn

The Amazon Resource Name (ARN) of the VPC endpoint.

Type: String

Required: No

endpointCreateTime

The time that the endpoint was created.

Type: Timestamp

Required: No

endpointName

The name of the VPC endpoint.

Type: String

Required: No

endpointStatus

The status of the VPC endpoint.

Type: String

Required: No

port

The port number on which Amazon Redshift Serverless accepts incoming connections.

Type: Integer

Required: No

subnetIds

The unique identifier of subnets where Amazon Redshift Serverless choose to deploy the VPC endpoint.

Type: Array of strings

Required: No

vpcEndpoint

The connection endpoint for connecting to Amazon Redshift Serverless.

Type: [VpcEndpoint](#) object

Required: No

vpcSecurityGroups

The security groups associated with the endpoint.

Type: Array of [VpcSecurityGroupMembership](#) objects

Required: No

workgroupName

The name of the workgroup associated with the endpoint.

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

Namespace

A collection of database objects and users.

Contents

adminPasswordSecretArn

The Amazon Resource Name (ARN) for the namespace's admin user credentials secret.

Type: String

Required: No

adminPasswordSecretKmsKeyId

The ID of the AWS Key Management Service (KMS) key used to encrypt and store the namespace's admin credentials secret.

Type: String

Required: No

adminUsername

The username of the administrator for the first database created in the namespace.

Type: String

Required: No

creationDate

The date of when the namespace was created.

Type: Timestamp

Required: No

dbName

The name of the first database created in the namespace.

Type: String

Required: No

defaultIamRoleArn

The Amazon Resource Name (ARN) of the IAM role to set as a default in the namespace.

Type: String

Required: No

iamRoles

A list of IAM roles to associate with the namespace.

Type: Array of strings

Required: No

kmsKeyId

The ID of the AWS Key Management Service key used to encrypt your data.

Type: String

Required: No

logExports

The types of logs the namespace can export. Available export types are User log, Connection log, and User activity log.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 16 items.

Valid Values: `useractivitylog` | `userlog` | `connectionlog`

Required: No

namespaceArn

The Amazon Resource Name (ARN) associated with a namespace.

Type: String

Required: No

namespaceId

The unique identifier of a namespace.

Type: String

Required: No

namespaceName

The name of the namespace. Must be between 3-64 alphanumeric characters in lowercase, and it cannot be a reserved word. A list of reserved words can be found in [Reserved Words](#) in the Amazon Redshift Database Developer Guide.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: No

status

The status of the namespace.

Type: String

Valid Values: AVAILABLE | MODIFYING | DELETING

Required: No

See Also

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

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

NetworkInterface

Contains information about a network interface in an Amazon Redshift Serverless managed VPC endpoint.

Contents

availabilityZone

The availability Zone.

Type: String

Required: No

networkInterfaceId

The unique identifier of the network interface.

Type: String

Required: No

privateIpAddress

The IPv4 address of the network interface within the subnet.

Type: String

Required: No

subnetId

The unique identifier of the subnet.

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

RecoveryPoint

The automatically created recovery point of a namespace. Recovery points are created every 30 minutes and kept for 24 hours.

Contents

namespaceArn

The Amazon Resource Name (ARN) of the namespace the recovery point is associated with.

Type: String

Required: No

namespaceName

The name of the namespace the recovery point is associated with.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: No

recoveryPointCreateTime

The time the recovery point is created.

Type: Timestamp

Required: No

recoveryPointId

The unique identifier of the recovery point.

Type: String

Required: No

totalSizeInMegaBytes

The total size of the data in the recovery point in megabytes.

Type: Double

Required: No

workgroupName

The name of the workgroup the recovery point is associated with.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-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 Java V2](#)
- [AWS SDK for Ruby V3](#)

ResourcePolicy

The resource policy object. Currently, you can use policies to share snapshots across AWS accounts.

Contents

policy

The resource policy.

Type: String

Required: No

resourceArn

The Amazon Resource Name (ARN) of the policy.

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

Schedule

The schedule of when Amazon Redshift Serverless should run the scheduled action.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

at

The timestamp of when Amazon Redshift Serverless should run the scheduled action. Timestamp is in UTC. Format of at expression is yyyy-mm-ddThh:mm:ss. For example, 2016-03-04T17:27:00.

Type: Timestamp

Required: No

cron

The cron expression to use to schedule a recurring scheduled action. Schedule invocations must be separated by at least one hour. Times are in UTC.

Format of cron expressions is (Minutes Hours Day-of-month Month Day-of-week Year). For example, "(0 10 ? * MON *)". For more information, see [Cron Expressions](#) in the *Amazon CloudWatch Events User Guide*.

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

ScheduledActionAssociation

Contains names of objects associated with a scheduled action.

Contents

namespaceName

Name of associated Amazon Redshift Serverless namespace.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: No

scheduledActionName

Name of associated scheduled action.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 60.

Pattern: `^[a-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 Java V2](#)
- [AWS SDK for Ruby V3](#)

ScheduledActionResponse

The returned scheduled action object.

Contents

endTime

The end time of

Type: Timestamp

Required: No

namespaceName

The end time in UTC when the schedule is no longer active. After this time, the scheduled action does not trigger.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: No

nextInvocations

An array of timestamps of when the next scheduled actions will trigger.

Type: Array of timestamps

Required: No

roleArn

The ARN of the IAM role to assume to run the scheduled action. This IAM role must have permission to run the Amazon Redshift Serverless API operation in the scheduled action. This IAM role must allow the Amazon Redshift scheduler to schedule creating snapshots. (Principal scheduler.redshift.amazonaws.com) to assume permissions on your behalf. For more information about the IAM role to use with the Amazon Redshift scheduler, see [Using Identity-Based Policies for Amazon Redshift](#) in the Amazon Redshift Cluster Management Guide

Type: String

Required: No

schedule

The schedule for a one-time (at timestamp format) or recurring (cron format) scheduled action. Schedule invocations must be separated by at least one hour. Times are in UTC.

- Format of at timestamp is `yyyy-mm-ddThh:mm:ss`. For example, `2016-03-04T17:27:00`.
- Format of cron expression is (Minutes Hours Day-of-month Month Day-of-week Year). For example, `"(0 10 ? * MON *)"`. For more information, see [Cron Expressions](#) in the *Amazon CloudWatch Events User Guide*.

Type: [Schedule](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

scheduledActionDescription

The description of the scheduled action.

Type: String

Required: No

scheduledActionName

The name of the scheduled action.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 60.

Pattern: `^[a-z0-9-]+$`

Required: No

scheduledActionUuid

The uuid of the scheduled action.

Type: String

Required: No

startTime

The start time in UTC when the schedule is active. Before this time, the scheduled action does not trigger.

Type: Timestamp

Required: No

state

The state of the scheduled action.

Type: String

Valid Values: ACTIVE | DISABLED

Required: No

targetAction

A JSON format string of the Amazon Redshift Serverless API operation with input parameters. The following is an example of a target action.

```
"{"CreateSnapshot": {"NamespaceName": "sampleNamespace", "SnapshotName": "sampleSnapshot", "retentionPeriod": "1"}}"
```

Type: [TargetAction](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

See Also

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

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

Snapshot

A snapshot object that contains databases.

Contents

accountsWithProvisionedRestoreAccess

All of the AWS accounts that have access to restore a snapshot to a provisioned cluster.

Type: Array of strings

Required: No

accountsWithRestoreAccess

All of the AWS accounts that have access to restore a snapshot to a namespace.

Type: Array of strings

Required: No

actualIncrementalBackupSizeInMegaBytes

The size of the incremental backup in megabytes.

Type: Double

Required: No

adminPasswordSecretArn

The Amazon Resource Name (ARN) for the namespace's admin user credentials secret.

Type: String

Required: No

adminPasswordSecretKmsKeyId

The ID of the AWS Key Management Service (KMS) key used to encrypt and store the namespace's admin credentials secret.

Type: String

Required: No

adminUsername

The username of the database within a snapshot.

Type: String

Required: No

backupProgressInMegaBytes

The size in megabytes of the data that has been backed up to a snapshot.

Type: Double

Required: No

currentBackupRateInMegaBytesPerSecond

The rate at which data is backed up into a snapshot in megabytes per second.

Type: Double

Required: No

elapsedTimeInSeconds

The amount of time it took to back up data into a snapshot.

Type: Long

Required: No

estimatedSecondsToCompletion

The estimated amount of seconds until the snapshot completes backup.

Type: Long

Required: No

kmsKeyId

The unique identifier of the KMS key used to encrypt the snapshot.

Type: String

Required: No

namespaceArn

The Amazon Resource Name (ARN) of the namespace the snapshot was created from.

Type: String

Required: No

namespaceName

The name of the namespace.

Type: String

Required: No

ownerAccount

The owner AWS; account of the snapshot.

Type: String

Required: No

snapshotArn

The Amazon Resource Name (ARN) of the snapshot.

Type: String

Required: No

snapshotCreateTime

The timestamp of when the snapshot was created.

Type: Timestamp

Required: No

snapshotName

The name of the snapshot.

Type: String

Required: No

snapshotRemainingDays

The amount of days until the snapshot is deleted.

Type: Integer

Required: No

snapshotRetentionPeriod

The period of time, in days, of how long the snapshot is retained.

Type: Integer

Required: No

snapshotRetentionStartTime

The timestamp of when data within the snapshot started getting retained.

Type: Timestamp

Required: No

status

The status of the snapshot.

Type: String

Valid Values: AVAILABLE | CREATING | DELETED | CANCELLED | FAILED | COPYING

Required: No

totalBackupSizeInMegaBytes

The total size, in megabytes, of how big the snapshot is.

Type: Double

Required: No

See Also

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

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

SnapshotCopyConfiguration

The object that you configure to copy snapshots from one namespace to a namespace in another AWS Region.

Contents

destinationKmsKeyId

The ID of the KMS key to use to encrypt your snapshots in the destination AWS Region.

Type: String

Required: No

destinationRegion

The destination AWS Region to copy snapshots to.

Type: String

Required: No

namespaceName

The name of the namespace to copy snapshots from in the source AWS Region.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: No

snapshotCopyConfigurationArn

The ARN of the snapshot copy configuration object.

Type: String

Required: No

snapshotCopyConfigurationId

The ID of the snapshot copy configuration object.

Type: String

Required: No

snapshotRetentionPeriod

The retention period of snapshots that are copied to the destination AWS Region.

Type: Integer

Required: No

See Also

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

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

TableRestoreStatus

Contains information about a table restore request.

Contents

message

A message that explains the returned status. For example, if the status of the operation is FAILED, the message explains why the operation failed.

Type: String

Required: No

namespaceName

The namespace of the table being restored from.

Type: String

Required: No

newTableName

The name of the table to create from the restore operation.

Type: String

Required: No

progressInMegaBytes

The amount of data restored to the new table so far, in megabytes (MB).

Type: Long

Required: No

recoveryPointId

The ID of the recovery point being restored from.

Type: String

Required: No

requestTime

The time that the table restore request was made, in Universal Coordinated Time (UTC).

Type: Timestamp

Required: No

snapshotName

The name of the snapshot being restored from.

Type: String

Required: No

sourceDatabaseName

The name of the source database being restored from.

Type: String

Required: No

sourceSchemaName

The name of the source schema being restored from.

Type: String

Required: No

sourceTableName

The name of the source table being restored from.

Type: String

Required: No

status

A value that describes the current state of the table restore request. Possible values are SUCCEEDED, FAILED, CANCELED, PENDING, and IN_PROGRESS.

Type: String

Required: No

tableRestoreRequestId

The ID of the RestoreTableFromSnapshot request.

Type: String

Required: No

targetDatabaseName

The name of the database to restore to.

Type: String

Required: No

targetSchemaName

The name of the schema to restore to.

Type: String

Required: No

totalDataInMegaBytes

The total amount of data to restore to the new table, in megabytes (MB).

Type: Long

Required: No

workgroupName

The name of the workgroup being restored from.

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

Tag

A map of key-value pairs.

Contents

key

The key to use in the tag.

Type: String

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

Required: Yes

value

The value of the tag.

Type: String

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

Required: Yes

See Also

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

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

TargetAction

A JSON format string of the Amazon Redshift Serverless API operation with input parameters. The following is an example of a target action.

```
"{"CreateSnapshot": {"NamespaceName": "sampleNamespace", "SnapshotName": "sampleSnapshot", "retentionPeriod": "1"}}"
```

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

createSnapshot

The parameters that you can use to configure a [scheduled action](#) to create a snapshot. For more information about creating a scheduled action, see [CreateScheduledAction](#).

Type: [CreateSnapshotScheduleActionParameters](#) object

Required: No

See Also

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

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

UsageLimit

The usage limit object.

Contents

amount

The limit amount. If time-based, this amount is in RPUs consumed per hour. If data-based, this amount is in terabytes (TB). The value must be a positive number.

Type: Long

Required: No

breachAction

The action that Amazon Redshift Serverless takes when the limit is reached.

Type: String

Valid Values: `log` | `emit-metric` | `deactivate`

Required: No

period

The time period that the amount applies to. A weekly period begins on Sunday. The default is monthly.

Type: String

Valid Values: `daily` | `weekly` | `monthly`

Required: No

resourceArn

The Amazon Resource Name (ARN) that identifies the Amazon Redshift Serverless resource.

Type: String

Required: No

usageLimitArn

The Amazon Resource Name (ARN) of the resource associated with the usage limit.

Type: String

Required: No

usageLimitId

The identifier of the usage limit.

Type: String

Required: No

usageType

The Amazon Redshift Serverless feature to limit.

Type: String

Valid Values: `serverless-compute` | `cross-region-datasharing`

Required: No

See Also

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

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

VpcEndpoint

The connection endpoint for connecting to Amazon Redshift Serverless through the proxy.

Contents

networkInterfaces

One or more network interfaces of the endpoint. Also known as an interface endpoint.

Type: Array of [NetworkInterface](#) objects

Required: No

vpcEndpointId

The connection endpoint ID for connecting to Amazon Redshift Serverless.

Type: String

Required: No

vpcId

The VPC identifier that the endpoint is associated with.

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

VpcSecurityGroupMembership

Describes the members of a VPC security group.

Contents

status

The status of the VPC security group.

Type: String

Required: No

vpcSecurityGroupId

The unique identifier of the VPC security group.

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

Workgroup

The collection of computing resources from which an endpoint is created.

Contents

baseCapacity

The base data warehouse capacity of the workgroup in Redshift Processing Units (RPUs).

Type: Integer

Required: No

configParameters

An array of parameters to set for advanced control over a database. The options are `auto_mv`, `datestyle`, `enable_case_sensitive_identifier`, `enable_user_activity_logging`, `query_group`, `search_path`, `require_ssl`, `use_fips_ssl`, and query monitoring metrics that let you define performance boundaries. For more information about query monitoring rules and available metrics, see [Query monitoring metrics for Amazon Redshift Serverless](#).

Type: Array of [ConfigParameter](#) objects

Required: No

creationDate

The creation date of the workgroup.

Type: Timestamp

Required: No

crossAccountVpcs

A list of VPCs. Each entry is the unique identifier of a virtual private cloud with access to Amazon Redshift Serverless. If all of the VPCs for the grantee are allowed, it shows an asterisk.

Type: Array of strings

Required: No

customDomainCertificateArn

The custom domain name's certificate Amazon resource name (ARN).

Type: String

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

Pattern: `arn:[\w+=/, .@-]+:acm:[\w+=/, .@-]*:[0-9]+:[\w+=, .@-]+(\/[\w+=, .@-]+)*`

Required: No

customDomainCertificateExpiryTime

The expiration time for the certificate.

Type: Timestamp

Required: No

customDomainName

The custom domain name associated with the workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 253.

Pattern: `^(((?!-)[A-Za-z0-9-]{0,62}[A-Za-z0-9])\.)+((?!-)[A-Za-z0-9-]{1,62}[A-Za-z0-9])$`

Required: No

endpoint

The endpoint that is created from the workgroup.

Type: [Endpoint](#) object

Required: No

enhancedVpcRouting

The value that specifies whether to enable enhanced virtual private cloud (VPC) routing, which forces Amazon Redshift Serverless to route traffic through your VPC.

Type: Boolean

Required: No

maxCapacity

The maximum data-warehouse capacity Amazon Redshift Serverless uses to serve queries. The max capacity is specified in RPUs.

Type: Integer

Required: No

namespaceName

The namespace the workgroup is associated with.

Type: String

Required: No

patchVersion

The patch version of your Amazon Redshift Serverless workgroup. For more information about patch versions, see [Cluster versions for Amazon Redshift](#).

Type: String

Required: No

port

The custom port to use when connecting to a workgroup. Valid port ranges are 5431-5455 and 8191-8215. The default is 5439.

Type: Integer

Required: No

publiclyAccessible

A value that specifies whether the workgroup can be accessible from a public network.

Type: Boolean

Required: No

securityGroupIds

An array of security group IDs to associate with the workgroup.

Type: Array of strings

Required: No

status

The status of the workgroup.

Type: String

Valid Values: CREATING | AVAILABLE | MODIFYING | DELETING

Required: No

subnetIds

An array of subnet IDs the workgroup is associated with.

Type: Array of strings

Required: No

workgroupArn

The Amazon Resource Name (ARN) that links to the workgroup.

Type: String

Required: No

workgroupId

The unique identifier of the workgroup.

Type: String

Required: No

workgroupName

The name of the workgroup.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 64.

Pattern: `^[a-z0-9-]+$`

Required: No

workgroupVersion

The Amazon Redshift Serverless version of your workgroup. For more information about Amazon Redshift Serverless versions, see [Cluster versions for Amazon Redshift](#).

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

Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signing AWS API requests](#) in the *IAM User Guide*.

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

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

For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

X-Amz-Date

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

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Elements of an AWS API request signature](#) in the *IAM User Guide*.

Type: string

Required: Conditional

X-Amz-Security-Token

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

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

Type: string

Required: Conditional

X-Amz-Signature

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

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

Type: string

Required: Conditional

X-Amz-SignedHeaders

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Create a signed AWS API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

Common Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 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

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