Welcome

Amazon Redshift Serverless

API Version 2021-04-21

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Amazon Redshift Serverless: Welcome

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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 October 16, 2026.

Actions

The following actions are supported:

- ConvertRecoveryPointToSnapshot
- CreateCustomDomainAssociation
- CreateEndpointAccess
- CreateNamespace
- CreateReservation
- CreateScheduledAction
- CreateSnapshot
- CreateSnapshotCopyConfiguration
- CreateUsageLimit
- CreateWorkgroup
- DeleteCustomDomainAssociation
- DeleteEndpointAccess
- DeleteNamespace
- DeleteResourcePolicy
- DeleteScheduledAction
- DeleteSnapshot
- DeleteSnapshotCopyConfiguration
- DeleteUsageLimit
- DeleteWorkgroup
- GetCredentials
- GetCustomDomainAssociation
- GetEndpointAccess
- GetIdentityCenterAuthToken
- GetNamespace
- GetRecoveryPoint
- GetReservation
- GetReservationOffering

- GetResourcePolicy
- GetScheduledAction
- GetSnapshot
- GetTableRestoreStatus
- GetTrack
- GetUsageLimit
- GetWorkgroup
- ListCustomDomainAssociations
- ListEndpointAccess
- ListManagedWorkgroups
- ListNamespaces
- ListRecoveryPoints
- ListReservationOfferings
- ListReservations
- ListScheduledActions
- ListSnapshotCopyConfigurations
- ListSnapshots
- ListTableRestoreStatus
- ListTagsForResource
- ListTracks
- ListUsageLimits
- ListWorkgroups
- PutResourcePolicy
- RestoreFromRecoveryPoint
- RestoreFromSnapshot
- RestoreTableFromRecoveryPoint
- RestoreTableFromSnapshot
- TagResource
- UntagResource
- UpdateCustomDomainAssociation

- UpdateEndpointAccess
- UpdateLakehouseConfiguration
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

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

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 identifers 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",
               "ipv6Address": "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 Error Types.

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

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python (Boto3)
- 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

redshiftIdcApplicationArn

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",
      "catalogArn": "string",
      "creationDate": "string",
      "dbName": "string",
      "defaultIamRoleArn": "string",
      "iamRoles": [ "string" ],
      "kmsKeyId": "string",
      "lakehouseRegistrationStatus": "string",
      "logExports": [ "string" ],
      "namespaceArn": "string",
      "namespaceId": "string",
      "namespaceName": "string",
      "s3TablePublishStatus": {
         "enabledAll": boolean,
         "lastIngestionTimes": {
            "string" : "string"
         },
         "s3TableGranularity": "string",
         "s3TableNamespace": "string",
         "s3Tables": [ "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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateReservation

Creates an Amazon Redshift Serverless reservation, which gives you the option to commit to a specified number of Redshift Processing Units (RPUs) for a year at a discount from Serverless on-demand (OD) rates.

Request Syntax

```
{
   "capacity": number,
   "clientToken": "string",
   "offeringId": "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.

capacity

The number of Redshift Processing Units (RPUs) to reserve.

Type: Integer

Required: Yes

clientToken

A unique, case-sensitive identifier that you provide to ensure the idempotency of the request. If not provided, the Amazon Web Services SDK populates this field. This token must be a valid UUIDv4 value. For more information about idempotency, see Making retries safe with idempotent APIs .

Type: String

Required: No

offeringId

The ID of the offering associated with the reservation. The offering determines the payment schedule for the reservation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```
{
   "reservation": {
      "capacity": number,
      "endDate": "string",
      "offering": {
         "currencyCode": "string",
         "duration": number,
         "hourlyCharge": number,
         "offeringId": "string",
         "offeringType": "string",
         "upfrontCharge": number
      },
      "reservationArn": "string",
      "reservationId": "string",
      "startDate": "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.

reservation

The reservation object that the `CreateReservation` action created.

Type: Reservation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that could not be found.

HTTP Status Code: 400

ServiceQuotaExceededException

The service limit was exceeded.

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.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

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

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

CreateWorkgroup

Creates an workgroup in Amazon Redshift Serverless.

VPC Block Public Access (BPA) enables you to block resources in VPCs and subnets that you own in a Region from reaching or being reached from the internet through internet gateways and egress-only internet gateways. If a workgroup is in an account with VPC BPA turned on, the following capabilities are blocked:

- Creating a public access workgroup
- Modifying a private workgroup to public
- Adding a subnet with VPC BPA turned on to the workgroup when the workgroup is public

For more information about VPC BPA, see Block public access to VPCs and subnets in the *Amazon VPC User Guide*.

Request Syntax

```
{
   "baseCapacity": number,
   "configParameters": [
      {
         "parameterKey": "string",
         "parameterValue": "string"
      }
   ],
   "enhancedVpcRouting": boolean,
   "extraComputeForAutomaticOptimization": boolean,
   "ipAddressType": "string",
   "maxCapacity": number,
   "namespaceName": "string",
   "port": number,
   "pricePerformanceTarget": {
      "level": number,
      "status": "string"
   },
   "publiclyAccessible": boolean,
   "securityGroupIds": [ "string" ],
   "subnetIds": [ "string" ],
   "tags": [
```

```
        {
            "key": "string",
            "value": "string"
        }
    ],
    "trackName": "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 (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_large_strings_opt_in`, `enable_user_activity_logging`, `query_group`, `search_path`, `require_ssl`, `use_fips_ssl`, and either `wlm_json_configuration` or query monitoring metrics that let you define performance boundaries. You can either specify individual query monitoring metrics (such as `max_scan_row_count`, `max_query_execution_time`) or use `wlm_json_configuration` to define query queues with rules, but not both. If you're using `wlm_json_configuration`, the maximum size of `parameterValue` is 8000 characters. 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

extraComputeForAutomaticOptimization

If `true`, allocates additional compute resources for running automatic optimization operations.

Default: false

Type: Boolean

Required: No

ipAddressType

The IP address type that the workgroup supports. Possible values are `ipv4` and `dualstack`.

Type: String

Pattern: `(ipv4|dualstack)`

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

pricePerformanceTarget

An object that represents the price performance target settings for the workgroup.

Type: PerformanceTarget object

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

trackName

An optional parameter for the name of the track for the workgroup. If you don't provide a track name, the workgroup is assigned to the `current` track.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

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",
                        "ipv6Address": "string",
                        "networkInterfaceId": "string",
                        "privateIpAddress": "string",
                        "subnetId": "string"
                     }
                  ],
                  "vpcEndpointId": "string",
                  "vpcId": "string"
               }
            ]
         },
         "enhancedVpcRouting": boolean,
         "extraComputeForAutomaticOptimization": boolean,
         "ipAddressType": "string",
         "maxCapacity": number,
         "namespaceName": "string",
         "patchVersion": "string",
         "pendingTrackName": "string",
         "port": number,
         "pricePerformanceTarget": {
            "level": number,
            "status": "string"
         },
         "publiclyAccessible": boolean,
         "securityGroupIds": [ "string" ],
         "status": "string",
         "subnetIds": [ "string" ],
         "trackName": "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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InsufficientCapacityException

There is an insufficient capacity to perform the action.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

Ipv6CidrBlockNotFoundException

There are no subnets in your VPC with associated IPv6 CIDR blocks. To use dual-stack mode, associate an IPv6 CIDR block with each subnet in your VPC.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that could not be found.

HTTP Status Code: 400

TooManyTagsException

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

resourceName

The name of the resource that 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

Examples

Example

This example illustrates one usage of CreateWorkgroup.

Sample Request

```
aws redshift-serverless create-workgroup
--workgroup-name test-workgroup
--namespace-name test-namespace
--track-name current
--region us-east-1
```

Sample Response

```
{
    "workgroup": {
        "workgroupId": "875083e4-50b5-4ad7-bd8b-b01beb74d912",
        "workgroupArn": "arn:aws:redshift-serverless:us-
east-1:012345678901:workgroup/875083e4-50b5-4ad7-bd8b-b01beb74d912",
        "workgroupName": "test-workgroup",
```

```
        "namespaceName": "test-namespace",
        "baseCapacity": 32,
        "enhancedVpcRouting": false,
        ...
        "securityGroupIds": [
            "sg-0f0e3edaf8473b3d2"
        ],
        "subnetIds": [
            "subnet-05a4615a242adf950",
            "subnet-0d364615acc244f2a",
            "subnet-037672f31c13d78a0",
            "subnet-062539bdf89dfa749",
            "subnet-01534423c994e5e30",
            "subnet-042b4ad9afe0826c6"
        ],
        "status": "CREATING",
        "endpoint": {
            "address": "test-workgroup-1.012345678901.us-east-1-dsk.redshift-
serverless-dev.amazonaws.com",
            "port": 5439
        },
        "publiclyAccessible": false,
        "creationDate": "2024-12-13T14:19:50.636000+00:00",
        "pricePerformanceTarget": {
            "status": "DISABLED"
        },
        "ipAddressType": "ipv4",
        "trackName": "current"
    }
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

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

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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",
               "ipv6Address": "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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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",
      "catalogArn": "string",
      "creationDate": "string",
      "dbName": "string",
      "defaultIamRoleArn": "string",
      "iamRoles": [ "string" ],
      "kmsKeyId": "string",
      "lakehouseRegistrationStatus": "string",
      "logExports": [ "string" ],
      "namespaceArn": "string",
      "namespaceId": "string",
      "namespaceName": "string",
      "s3TablePublishStatus": {
         "enabledAll": boolean,
         "lastIngestionTimes": {
            "string" : "string"
         },
         "s3TableGranularity": "string",
         "s3TableNamespace": "string",
         "s3Tables": [ "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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

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

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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",
                       "ipv6Address": "string",
                       "networkInterfaceId": "string",
                       "privateIpAddress": "string",
                       "subnetId": "string"
                    }
                 ],
                 "vpcEndpointId": "string",
                 "vpcId": "string"
              }
           ]
        },
        "enhancedVpcRouting": boolean,
        "extraComputeForAutomaticOptimization": boolean,
        "ipAddressType": "string",
        "maxCapacity": number,
        "namespaceName": "string",
        "patchVersion": "string",
        "pendingTrackName": "string",
        "port": number,
        "pricePerformanceTarget": {
           "level": number,
           "status": "string"
        },
        "publiclyAccessible": boolean,
        "securityGroupIds": [ "string" ],
        "status": "string",
        "subnetIds": [ "string" ],
        "trackName": "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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

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

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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",
               "ipv6Address": "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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetIdentityCenterAuthToken

Returns an Identity Center authentication token for accessing Amazon Redshift Serverless workgroups.

The token provides secure access to data within the specified workgroups using Identity Center identity propagation. The token expires after a specified duration and must be refreshed for continued access.

The AWS Identity and Access Management (IAM) user or role that runs GetIdentityCenterAuthToken must have appropriate permissions to access the specified workgroups and Identity Center integration must be configured for the workgroups.

Request Syntax

```
{
   "workgroupNames": [ "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.

workgroupNames

A list of workgroup names for which to generate the Identity Center authentication token.

Constraints:

- Must contain between 1 and 20 workgroup names.
- Each workgroup name must be a valid Amazon Redshift Serverless workgroup identifier.
- All specified workgroups must have Identity Center integration enabled.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 20 items.

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

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

Required: Yes

Response Syntax

```
{
   "expirationTime": "string",
   "token": "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.

expirationTime

The date and time when the Identity Center authentication token expires.

After this time, a new token must be requested for continued access.

Type: Timestamp

token

The Identity Center authentication token that can be used to access data in the specified workgroups.

This token contains the Identity Center identity information and is encrypted for secure transmission.

Type: String

Errors

For information about the errors that are common to all actions, see Common Error Types.

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

DryRunException

This exception is thrown when the request was successful, but dry run was enabled so no action was taken.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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",
      "catalogArn": "string",
      "creationDate": "string",
      "dbName": "string",
      "defaultIamRoleArn": "string",
      "iamRoles": [ "string" ],
      "kmsKeyId": "string",
```

```
        "lakehouseRegistrationStatus": "string",
        "logExports": [ "string" ],
        "namespaceArn": "string",
        "namespaceId": "string",
        "namespaceName": "string",
        "s3TablePublishStatus": {
           "enabledAll": boolean,
           "lastIngestionTimes": {
              "string" : "string"
           },
           "s3TableGranularity": "string",
           "s3TableNamespace": "string",
           "s3Tables": [ "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 Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetReservation

Gets an Amazon Redshift Serverless reservation. A reservation gives you the option to commit to a specified number of Redshift Processing Units (RPUs) for a year at a discount from Serverless on-demand (OD) rates.

Request Syntax

```
{
   "reservationId": "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.

reservationId

The ID of the reservation to retrieve.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```
{
   "reservation": {
      "capacity": number,
      "endDate": "string",
      "offering": {
         "currencyCode": "string",
         "duration": number,
         "hourlyCharge": number,
         "offeringId": "string",
         "offeringType": "string",
```

```
            "upfrontCharge": number
        },
        "reservationArn": "string",
        "reservationId": "string",
        "startDate": "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.

reservation

The returned reservation object.

Type: Reservation object

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetReservationOffering

Returns the reservation offering. The offering determines the payment schedule for the reservation.

Request Syntax

```
{
   "offeringId": "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.

offeringId

The identifier for the offering..

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: Yes

Response Syntax

```
{
   "reservationOffering": {
      "currencyCode": "string",
      "duration": number,
      "hourlyCharge": number,
      "offeringId": "string",
      "offeringType": "string",
      "upfrontCharge": 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.

reservationOffering

The returned reservation offering. The offering determines the payment schedule for the reservation.

Type: ReservationOffering object

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)

- 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 Error Types.

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

GetTrack

Get the Redshift Serverless version for a specified track.

Request Syntax

```
{
   "trackName": "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.

trackName

The name of the track of which its version is fetched.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: Yes

Response Syntax

```
{
   "track": {
      "trackName": "string",
      "updateTargets": [
         {
            "trackName": "string",
            "workgroupVersion": "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.

track

The version of the specified track.

Type: ServerlessTrack object

Errors

For information about the errors that are common to all actions, see Common Error Types.

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

DryRunException

This exception is thrown when the request was successful, but dry run was enabled so no action was taken.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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

Examples

Example

This example illustrates one usage of GetTrack.

Sample Request

```
aws redshift-serverless get-track
 --track-name current
--region us-east-1
```

Sample Response

```
{
    "track": {
        "trackName": "current",
        "workgroupVersion": "1.0.107360",
        "updateTargets": [
            {
                "trackName": "trailing",
```

```
                "workgroupVersion": "1.0.106452"
            }
        ]
    }
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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",
                       "ipv6Address": "string",
                       "networkInterfaceId": "string",
                       "privateIpAddress": "string",
                       "subnetId": "string"
                    }
                 ],
                 "vpcEndpointId": "string",
                 "vpcId": "string"
              }
           ]
        },
        "enhancedVpcRouting": boolean,
        "extraComputeForAutomaticOptimization": boolean,
        "ipAddressType": "string",
        "maxCapacity": number,
        "namespaceName": "string",
        "patchVersion": "string",
        "pendingTrackName": "string",
        "port": number,
        "pricePerformanceTarget": {
           "level": number,
           "status": "string"
        },
        "publiclyAccessible": boolean,
        "securityGroupIds": [ "string" ],
        "status": "string",
        "subnetIds": [ "string" ],
        "trackName": "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 Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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

Examples

Example

This example illustrates one usage of GetWorkgroup.

Sample Request

```
aws redshift-serverless get-workgroup
--workgroup-name test-wg
--region us-east-1
```

Sample Response

```
{
  "workgroup": {
    "workgroupId": "875083e4-50b5-4ad7-bd8b-b01beb74d912",
    "workgroupArn": "arn:aws:redshift-serverless:us-
east-1:012345678901:workgroup/875083e4-50b5-4ad7-bd8b-b01beb74d912",
    "workgroupName": "test-wg",
    "namespaceName": "test-ns",
    "baseCapacity": 32,
    "enhancedVpcRouting": false,
    ...
    "ipAddressType": "ipv4",
    "trackName": "current",
    "pendingTrackName": "trailing"
  }
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

InternalServerException

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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",
                  "ipv6Address": "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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListManagedWorkgroups

Returns information about a list of specified managed workgroups in your account.

Request Syntax

```
{
   "maxResults": number,
   "nextToken": "string",
   "sourceArn": "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 ListManagedWorkgroups operation returns a nextToken, you can include the returned nextToken in following ListManagedWorkgroups operations, which returns results in the next page.

Type: String

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

Required: No

sourceArn

The Amazon Resource Name (ARN) for the managed workgroup in the AWS Glue Data Catalog.

Type: String

Pattern: `arn:aws[a-z-]*:glue:[a-z0-9-]+:\d+:(database|catalog)[a-z0-9-:]*(?:/[A-Za-z0-9-_]{1,255})*`

Required: No

Response Syntax

```
{
   "managedWorkgroups": [
      {
         "creationDate": "string",
         "managedWorkgroupId": "string",
         "managedWorkgroupName": "string",
         "sourceArn": "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.

managedWorkgroups

The returned array of managed workgroups.

Type: Array of ManagedWorkgroupListItem objects

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

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

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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",
         "catalogArn": "string",
         "creationDate": "string",
         "dbName": "string",
         "defaultIamRoleArn": "string",
         "iamRoles": [ "string" ],
         "kmsKeyId": "string",
         "lakehouseRegistrationStatus": "string",
         "logExports": [ "string" ],
         "namespaceArn": "string",
         "namespaceId": "string",
         "namespaceName": "string",
         "s3TablePublishStatus": {
            "enabledAll": boolean,
            "lastIngestionTimes": {
               "string" : "string"
            },
            "s3TableGranularity": "string",
            "s3TableNamespace": "string",
            "s3Tables": [ "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 Error Types.

InternalServerException

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)

- 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 Error Types.

InternalServerException

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListReservationOfferings

Returns the current reservation offerings in your account.

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

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer

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

Required: No

nextToken

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

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

Required: No

Response Syntax

```
{
```

```
    "nextToken": "string",
    "reservationOfferingsList": [
       {
          "currencyCode": "string",
          "duration": number,
          "hourlyCharge": number,
          "offeringId": "string",
          "offeringType": "string",
          "upfrontCharge": 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

The token to use when requesting the next set of items.

Type: String

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

reservationOfferingsList

The returned list of reservation offerings.

Type: Array of ReservationOffering objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

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

HTTP Status Code: 500

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListReservations

Returns a list of Reservation objects.

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

The maximum number of items to return for this call. The call also returns a token that you can specify in a subsequent call to get the next set of results.

Type: Integer

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

Required: No

nextToken

The token for the next set of items to return. (You received this token from a previous call.)

Type: String

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

Required: No

Response Syntax

```
{
   "nextToken": "string",
```

```
    "reservationsList": [
       {
          "capacity": number,
          "endDate": "string",
          "offering": {
             "currencyCode": "string",
             "duration": number,
             "hourlyCharge": number,
             "offeringId": "string",
             "offeringType": "string",
             "upfrontCharge": number
          },
          "reservationArn": "string",
          "reservationId": "string",
          "startDate": "string",
          "status": "string"
       }
    ]
}
```

Response Elements

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

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

nextToken

The token to use when requesting the next set of items.

Type: String

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

reservationsList

The serverless reservations returned by the request.

Type: Array of Reservation objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

InternalServerException

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

HTTP Status Code: 500

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

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.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2

- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)

- 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 returns 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 Error Types.

InvalidPaginationException

The provided pagination token is invalid.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

ListTracks

List the Amazon Redshift Serverless versions.

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

The maximum number of response records to return in each call. If the number of remaining response records exceeds the specified MaxRecords value, a value is returned in a marker field of the response. You can retrieve the next set of records by retrying the command with the returned marker value.

Type: Integer

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

Required: No

nextToken

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

Type: String

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

Required: No

Response Syntax

```
{
   "nextToken": "string",
   "tracks": [
      {
         "trackName": "string",
         "updateTargets": [
            {
               "trackName": "string",
               "workgroupVersion": "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

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.

tracks

The returned tracks.

Type: Array of ServerlessTrack objects

Errors

For information about the errors that are common to all actions, see Common Error Types.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

InternalServerException

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

Examples

Example

This example illustrates one usage of ListTracks.

Sample Request

```
aws redshift-serverless list-tracks
--region us-east-1
```

Sample Response

```
{
```

```
    "tracks": [
        {
            "trackName": "current",
            "workgroupVersion": "1.0.106980",
            "updateTargets": [
                {
                    "trackName": "trailing",
                    "workgroupVersion": "1.0.106452"
                }
            ]
        },
        {
            "trackName": "trailing",
            "workgroupVersion": "1.0.106452",
            "updateTargets": [
                {
                    "trackName": "current",
                    "workgroupVersion": "1.0.106980"
                }
            ]
        }
    ]
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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",
                        "ipv6Address": "string",
                        "networkInterfaceId": "string",
                        "privateIpAddress": "string",
                        "subnetId": "string"
                     }
                  ],
                  "vpcEndpointId": "string",
                  "vpcId": "string"
               }
            ]
         },
```

```
            "enhancedVpcRouting": boolean,
            "extraComputeForAutomaticOptimization": boolean,
            "ipAddressType": "string",
            "maxCapacity": number,
            "namespaceName": "string",
            "patchVersion": "string",
            "pendingTrackName": "string",
            "port": number,
            "pricePerformanceTarget": {
               "level": number,
               "status": "string"
            },
            "publiclyAccessible": boolean,
            "securityGroupIds": [ "string" ],
            "status": "string",
            "subnetIds": [ "string" ],
            "trackName": "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 Error Types.

InternalServerException

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

Examples

Example

This example illustrates one usage of ListWorkgroups.

Sample Request

```
aws redshift-serverless list-workgroups
--region us-east-1
```

Sample Response

```
{
  "workgroups": [
    {
      "workgroupId": "aff51189-e570-474d-9feb-ae83286e057c",
      "workgroupArn": "arn:aws:redshift-serverless:us-east-1:012345678901:workgroup/
aff51189-e570-474d-9feb-ae83286e057c",
      "workgroupName": "test-track-1",
      "namespaceName": "test-track-ns",
      "baseCapacity": 32,
      "enhancedVpcRouting": false,
      "trackName": "current",
      "pendingTrackName": "trailing"
    ]
```

```
  },
  ...
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

RestoreFromRecoveryPoint

Restore the data from a recovery point.

Request Syntax

```
{
   "maintainIntegration": boolean,
   "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.

maintainIntegration

If `true`, maintain existing data sharing, zero-ETL and S3 event integrations when restoring. Otherwise, integrations will not be maintained after the restore operation. Integrations are only maintained when restored to the same serverless namespace.

Default: true

Type: Boolean

Required: No

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",
      "catalogArn": "string",
      "creationDate": "string",
      "dbName": "string",
      "defaultIamRoleArn": "string",
      "iamRoles": [ "string" ],
      "kmsKeyId": "string",
      "lakehouseRegistrationStatus": "string",
      "logExports": [ "string" ],
      "namespaceArn": "string",
      "namespaceId": "string",
      "namespaceName": "string",
      "s3TablePublishStatus": {
         "enabledAll": boolean,
         "lastIngestionTimes": {
            "string" : "string"
         },
         "s3TableGranularity": "string",
```

```
            "s3TableNamespace": "string",
            "s3Tables": [ "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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

RestoreFromSnapshot

Restores a namespace from a snapshot.

Request Syntax

```
{
   "adminPasswordSecretKmsKeyId": "string",
   "maintainIntegration": boolean,
   "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

maintainIntegration

If `true`, maintain existing data sharing, zero-ETL and S3 event integrations when restoring. Otherwise, integrations will not be maintained after the restore operation. Integrations are only maintained when restored to the same serverless namespace.

Default: true

Type: Boolean

Required: No

manageAdminPassword

If `true`, Amazon Redshift uses AWS Secrets Manager to manage the restored snapshot's admin credentials. If `MmanageAdminPassword` 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 a provisioned cluster to Amazon Redshift Serverless. 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",
      "catalogArn": "string",
      "creationDate": "string",
      "dbName": "string",
      "defaultIamRoleArn": "string",
      "iamRoles": [ "string" ],
      "kmsKeyId": "string",
      "lakehouseRegistrationStatus": "string",
      "logExports": [ "string" ],
      "namespaceArn": "string",
      "namespaceId": "string",
      "namespaceName": "string",
      "s3TablePublishStatus": {
         "enabledAll": boolean,
         "lastIngestionTimes": {
            "string" : "string"
```

```
            },
            "s3TableGranularity": "string",
            "s3TableNamespace": "string",
            "s3Tables": [ "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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3

- AWS SDK for Python (Boto3)
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

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

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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",
                 "ipv6Address": "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 Error Types.

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

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

UpdateLakehouseConfiguration

Modifies the lakehouse configuration for a namespace. This operation allows you to manage Amazon Redshift federated permissions and AWS IAM Identity Center trusted identity propagation.

Request Syntax

```
{
   "catalogName": "string",
   "dryRun": boolean,
   "lakehouseIdcApplicationArn": "string",
   "lakehouseIdcRegistration": "string",
   "lakehouseRegistration": "string",
   "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.

catalogName

The name of the AWS Glue Data Catalog that will be associated with the namespace enabled with Amazon Redshift federated permissions.

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

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: `[a-z0-9_-]*[a-z]+[a-z0-9_-]*`

Required: No

dryRun

A boolean value that, if `true`, validates the request without actually updating the lakehouse configuration. Use this to check for errors before making changes.

Type: Boolean

Required: No

lakehouseIdcApplicationArn

The Amazon Resource Name (ARN) of the IAM Identity Center application used for enabling AWS IAM Identity Center trusted identity propagation on a namespace enabled with Amazon Redshift federated permissions.

Type: String

Required: No

lakehouseIdcRegistration

Modifies the AWS IAM Identity Center trusted identity propagation on a namespace enabled with Amazon Redshift federated permissions. Valid values are `Associate` or `Disassociate`.

Type: String

Valid Values: `Associate | Disassociate`

Required: No

lakehouseRegistration

Specifies whether to register or deregister the namespace with Amazon Redshift federated permissions. Valid values are `Register` or `Deregister`.

Type: String

Valid Values: `Register | Deregister`

Required: No

namespaceName

The name of the namespace whose lakehouse configuration you want to modify.

Type: String

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

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

Required: Yes

Response Syntax

```
{
   "catalogArn": "string",
   "lakehouseIdcApplicationArn": "string",
   "lakehouseRegistrationStatus": "string",
   "namespaceName": "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.

catalogArn

The Amazon Resource Name (ARN) of the AWS Glue Data Catalog associated with the lakehouse configuration.

Type: String

lakehouseIdcApplicationArn

The Amazon Resource Name (ARN) of the IAM Identity Center application used for enabling AWS IAM Identity Center trusted identity propagation.

Type: String

lakehouseRegistrationStatus

The current status of the lakehouse registration. Indicates whether the namespace is successfully registered with Amazon Redshift federated permissions.

Type: String

namespaceName

The name of the namespace.

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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

DryRunException

This exception is thrown when the request was successful, but dry run was enabled so no action was taken.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

Similarly, an S3 Tables log-publishing update (a request where `logDestinationType` is `s3table`) cannot be combined with any other namespace configuration change and must be submitted as its own request.

Request Syntax

```
{
   "adminPasswordSecretKmsKeyId": "string",
   "adminUsername": "string",
   "adminUserPassword": "string",
   "defaultIamRoleArn": "string",
   "iamRoles": [ "string" ],
   "kmsKeyId": "string",
   "logDestinationType": "string",
   "logExports": [ "string" ],
   "manageAdminPassword": boolean,
   "namespaceName": "string",
   "s3TableAction": "string",
   "s3TableGranularity": "string",
   "s3TableKmsKeyId": "string",
   "s3TableNames": [ "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.

If your admin user account is locked, this operation also unlocks your account and resets the failed-login counter. This option is available only when account lockout security is enabled for the namespace.

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

logDestinationType

The destination for the log data. Valid values are `s3table` and `cloudwatch`.

Set this to `s3table` to manage Amazon S3 Tables system-table publishing for the namespace.

Type: String

Valid Values: `s3table | cloudwatch`

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

s3TableAction

Whether to enable or disable Amazon S3 Tables publishing. Valid values are `Enable` and `Disable`, matched case-insensitively.

When omitted, defaults to `Enable`. Valid only when `logDestinationType` is `s3table`.

Type: String

Valid Values: `Enable | Disable`

Required: No

s3TableGranularity

The scope of the Amazon S3 Tables destination. Valid values are `namespace` and `account`, matched case-insensitively. `namespace` scopes the published tables to this namespace; `account` scopes them to the AWS account.

Required when enabling. Omitting this parameter or passing a blank value fails with `ValidationException`. Valid only when `logDestinationType` is `s3table`.

Type: String

Valid Values: `namespace | account`

Required: No

s3TableKmsKeyId

The identifier of the AWS Key Management Service key used to encrypt the published Amazon S3 Tables data. When omitted, the data is encrypted with SSE-S3 (Amazon S3 managed keys).

Valid only when `logDestinationType` is `s3table`.

Type: String

Required: No

s3TableNames

The system tables to publish (on enable) or to stop publishing (on disable). Each value is either a system table view name that begins with `sys_` or the keyword `all`.

Omitting this parameter, passing an empty list, or including `all` each select every current and future system table. Each name must be 1-128 characters, and the list can contain up to 256 names.

Valid only when `logDestinationType` is `s3table`.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 256 items.

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

Pattern: `(all|sys_[a-z0-9_]+)`

Required: No

Response Syntax

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

```
        "namespaceArn": "string",
        "namespaceId": "string",
        "namespaceName": "string",
        "s3TablePublishStatus": {
           "enabledAll": boolean,
           "lastIngestionTimes": {
              "string" : "string"
           },
           "s3TableGranularity": "string",
           "s3TableNamespace": "string",
           "s3Tables": [ "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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 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 descripion 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

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

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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.

VPC Block Public Access (BPA) enables you to block resources in VPCs and subnets that you own in a Region from reaching or being reached from the internet through internet gateways and egress-only internet gateways. If a workgroup is in an account with VPC BPA turned on, the following capabilities are blocked:

- Creating a public access workgroup
- Modifying a private workgroup to public
- Adding a subnet with VPC BPA turned on to the workgroup when the workgroup is public

For more information about VPC BPA, see Block public access to VPCs and subnets in the *Amazon VPC User Guide*.

Request Syntax

```
{
   "baseCapacity": number,
   "configParameters": [
      {
         "parameterKey": "string",
         "parameterValue": "string"
      }
   ],
   "enhancedVpcRouting": boolean,
   "extraComputeForAutomaticOptimization": boolean,
   "ipAddressType": "string",
   "maxCapacity": number,
   "port": number,
   "pricePerformanceTarget": {
      "level": number,
      "status": "string"
   },
   "publiclyAccessible": boolean,
   "securityGroupIds": [ "string" ],
   "subnetIds": [ "string" ],
```

```
    "trackName": "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 (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_large_strings_opt_in`, `enable_user_activity_logging`, `query_group`, `search_path`, `require_ssl`, `use_fips_ssl`, and either `wlm_json_configuration` or query monitoring metrics that let you define performance boundaries. You can either specify individual query monitoring metrics (such as `max_scan_row_count`, `max_query_execution_time`) or use `wlm_json_configuration` to define query queues with rules, but not both. If you're using `wlm_json_configuration`, the maximum size of `parameterValue` is 8000 characters. 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

extraComputeForAutomaticOptimization

If `true`, allocates additional compute resources for running automatic optimization operations.

Default: false

Type: Boolean

Required: No

ipAddressType

The IP address type that the workgroup supports. Possible values are `ipv4` and `dualstack`.

Type: String

Pattern: `(ipv4|dualstack)`

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

pricePerformanceTarget

An object that represents the price performance target settings for the workgroup.

Type: PerformanceTarget object

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

trackName

An optional parameter for the name of the track for the workgroup. If you don't provide a track name, the workgroup is assigned to the `current` track.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

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",
                     "ipv6Address": "string",
                     "networkInterfaceId": "string",
                     "privateIpAddress": "string",
                     "subnetId": "string"
                  }
               ],
               "vpcEndpointId": "string",
               "vpcId": "string"
            }
         ]
      },
      "enhancedVpcRouting": boolean,
      "extraComputeForAutomaticOptimization": boolean,
```

```
        "ipAddressType": "string",
        "maxCapacity": number,
        "namespaceName": "string",
        "patchVersion": "string",
        "pendingTrackName": "string",
        "port": number,
        "pricePerformanceTarget": {
           "level": number,
           "status": "string"
        },
        "publiclyAccessible": boolean,
        "securityGroupIds": [ "string" ],
        "status": "string",
        "subnetIds": [ "string" ],
        "trackName": "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 Error Types.

ConflictException

The submitted action has conflicts.

HTTP Status Code: 400

InsufficientCapacityException

There is an insufficient capacity to perform the action.

HTTP Status Code: 400

InternalServerException

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

HTTP Status Code: 500

Ipv6CidrBlockNotFoundException

There are no subnets in your VPC with associated IPv6 CIDR blocks. To use dual-stack mode, associate an IPv6 CIDR block with each subnet in your VPC.

HTTP Status Code: 400

ResourceNotFoundException

The resource could not be found.

resourceName

The name of the resource that 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

Examples

Example

This example illustrates one usage of UpdateWorkgroup.

Sample Request

```
aws redshift-serverless update-workgroup
--workgroup-name test-wg
```

```
--track-name trailing
```

Sample Response

```
{
  "workgroup": {
    "workgroupId": "875083e4-50b5-4ad7-bd8b-b01beb74d912",
    "workgroupArn": "arn:aws:redshift-serverless:us-
east-1:012345678901:workgroup/875083e4-50b5-4ad7-bd8b-b01beb74d912",
    "workgroupName": "test-wg",
    "namespaceName": "test-namespace",
    "baseCapacity": 32,
    "enhancedVpcRouting": false,
    ...
    "ipAddressType": "ipv4",
    "trackName": "current"
    "pendingTrackName": "trailing"
  }
}
```

See Also

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

- AWS Command Line Interface V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- 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
- ManagedWorkgroupListItem
- Namespace
- NetworkInterface
- PerformanceTarget
- RecoveryPoint
- Reservation
- ReservationOffering
- ResourcePolicy
- S3TablePublishStatus
- Schedule
- ScheduledActionAssociation
- ScheduledActionResponse
- ServerlessTrack
- Snapshot
- SnapshotCopyConfiguration

- TableRestoreStatus
- Tag
- TargetAction
- UpdateTarget
- 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_large_strings_opt_in`, `enable_user_activity_logging`, `query_group`, `search_path`, `require_ssl`, `use_fips_ssl`, and either `wlm_json_configuration` or query monitoring metrics that let you define performance boundaries. You can either specify individual query monitoring metrics (such as `max_scan_row_count`, `max_query_execution_time`) or use `wlm_json_configuration` to define query queues with rules, but not both. If you're using `wlm_json_configuration`, the maximum size of `parameterValue` is 8000 characters. 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

ManagedWorkgroupListItem

A collection of Amazon Redshift compute resources managed by AWS Glue.

Contents

creationDate

The creation date of the managed workgroup.

Type: Timestamp

Required: No

managedWorkgroupId

The unique identifier of the managed workgroup.

Type: String

Required: No

managedWorkgroupName

The name of the managed workgroup.

Type: String

Length Constraints: Minimum length of 3. Maximum length of 255.

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

Required: No

sourceArn

The Amazon Resource Name (ARN) for the managed workgroup in the AWS Glue Data Catalog.

Type: String

Pattern: `arn:aws[a-z-]*:glue:[a-z0-9-]+:\d+:(database|catalog)[a-z0-9-:]*(?:/[A-Za-z0-9-_]{1,255})*`

Required: No

status

The status of the managed workgroup.

Type: String

Valid Values: `CREATING | DELETING | MODIFYING | AVAILABLE | NOT_AVAILABLE`

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

catalogArn

The Amazon Resource Name (ARN) of the AWS Glue Data Catalog associated with the namespace enabled with Amazon Redshift federated permissions.

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

lakehouseRegistrationStatus

The status of the lakehouse registration for the namespace. Indicates whether the namespace is successfully registered with Amazon Redshift federated permissions.

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

s3TablePublishStatus

The current Amazon S3 Tables log-publishing status for the namespace. Not returned when S3 Tables publishing has never been configured for the namespace.

Type: S3TablePublishStatus object

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

ipv6Address

The IPv6 address of the network interface within the subnet.

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

PerformanceTarget

An object that represents the price performance target settings for the workgroup.

Contents

level

The target price performance level for the workgroup. Valid values include 1, 25, 50, 75, and 100. These correspond to the price performance levels LOW_COST, ECONOMICAL, BALANCED, RESOURCEFUL, and HIGH_PERFORMANCE.

Type: Integer

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

Required: No

status

Whether the price performance target is enabled for the workgroup.

Type: String

Valid Values: `ENABLED | DISABLED`

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

Reservation

Represents an Amazon Redshift Serverless reservation, which gives you the option to commit to a specified number of Redshift Processing Units (RPUs) for a year at a discount from Serverless on-demand (OD) rates.

Contents

capacity

The number of Redshift Processing Units (RPUs) to reserve.

Type: Integer

Required: No

endDate

The end date for the serverless reservation. This date is one year after the start date that you specify.

Type: Timestamp

Required: No

offering

The type of offering for the reservation. The offering class determines the payment schedule for the reservation.

Type: ReservationOffering object

Required: No

reservationArn

The Amazon Resource Name (ARN) that uniquely identifies the serverless reservation.

Type: String

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

Required: No

reservationId

The identifier that uniquely identifies the serverless reservation.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

startDate

The start date for the serverless reservation. This is the date you created the reservation.

Type: Timestamp

Required: No

status

The status of the reservation. Possible values include the following:

- `payment-pending`
- `active`
- `payment-failed`
- `retired`

Type: String

Length Constraints: Minimum length of 1. Maximum length of 16.

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

ReservationOffering

The class of offering for the reservation. The offering class determines the payment schedule for the reservation.

Contents

currencyCode

The currency code for the offering.

Type: String

Required: No

duration

The duration, in seconds, for which the reservation reserves the RPUs.

Type: Integer

Required: No

hourlyCharge

The rate you are charged for each hour the reservation is active.

Type: Double

Required: No

offeringId

The offering identifier.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Required: No

offeringType

Determines the payment schedule for the reservation.

Type: String

Valid Values: `ALL_UPFRONT | NO_UPFRONT`

Required: No

upfrontCharge

The up-front price you are charged for the reservation.

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

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

S3TablePublishStatus

Describes the state of Amazon S3 Tables system-table log publishing for a namespace.

Contents

enabledAll

`true` when the namespace is enrolled in every current and future system table rather than an explicit list of tables.

Type: Boolean

Required: No

lastIngestionTimes

A map of system table name to the time that table last received data, as an ISO-8601 timestamp. A table that has not yet been ingested is absent from the map. Use it to judge data freshness.

Type: String to string map

Required: No

s3TableGranularity

The scope currently in effect. Values are `namespace` or `account`.

Type: String

Valid Values: `namespace | account`

Required: No

s3TableNamespace

The identifier of the namespace in the S3 table bucket that holds the published tables.

Type: String

Required: No

s3Tables

The system tables currently being published.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 256 items.

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

Pattern: `(all|sys_[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

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 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

ServerlessTrack

Defines a track that determines which Amazon Redshift version to apply after a new version is released. If the value for `ServerlessTrack` is `current`, the workgroup is updated to the most recently certified release. If the value is `trailing`, the workgroup is updated to the previously certified release.

Contents

trackName

The name of the track. Valid values are `current` and `trailing`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: No

updateTargets

An array of `UpdateTarget` objects to update with the track.

Type: Array of UpdateTarget objects

Required: No

workgroupVersion

The workgroup version number for the workgroup release.

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

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 namepsace.

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

UpdateTarget

A track that you can switch the current track to.

Contents

trackName

The name of the new track.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

Required: No

workgroupVersion

The workgroup version for the new track.

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

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_large_strings_opt_in`, `enable_user_activity_logging`, `query_group`, `search_path`, `require_ssl`, `use_fips_ssl`, and either `wlm_json_configuration` or query monitoring metrics that let you define performance boundaries. You can either specify individual query monitoring metrics (such as `max_scan_row_count`, `max_query_execution_time`) or use `wlm_json_configuration` to define query queues with rules, but not both. If you're using `wlm_json_configuration`, the maximum size of `parameterValue` is 8000 characters. 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

extraComputeForAutomaticOptimization

A boolean value that, if `true`, indicates that the workgroup allocates additional compute resources to run automatic optimization operations.

Default: false

Type: Boolean

Required: No

ipAddressType

The IP address type that the workgroup supports. Possible values are `ipv4` and `dualstack`.

Type: String

Pattern: `(ipv4|dualstack)`

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

pendingTrackName

The name for the track that you want to assign to the workgroup. When the track changes, the workgroup is switched to the latest workgroup release available for the track. At this point, the track name is applied.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

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

pricePerformanceTarget

An object that represents the price performance target settings for the workgroup.

Type: PerformanceTarget object

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

trackName

The name of the track for the workgroup.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

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

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, seeCluster 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*.

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 Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

NotAuthorized

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

OptInRequired

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

RequestAbortedException

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

RequestEntityTooLargeException

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

RequestTimeoutException

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

UnknownOperationException

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

UnrecognizedClientException

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

ValidationError

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400