Amazon ElastiCache

Command Line Reference

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Amazon ElastiCache: Command Line Reference

Table of Contents

Welcome

This is the *Amazon ElastiCache Command Line Tools Reference*. It provides the syntax, description, options, and usage examples for each of the Amazon ElastiCache command line tools.

How Do I...?

How Do I?	Relevant Sections
Download and install the Amazon ElastiCache command line tools.	Setting Up the ElastiCache Command Line Interface (p. 2)
Get a list of the Amazon ElastiCache API tools, organized by function.	List of Command Line Operations by Function (p. 9)
Get a list of all Amazon ElastiCache API tools.	API Command Line Tools Reference (p. 6)
Get a list of common options used in all API tools.	Common Options for API Tools (p. 7)

Setting Up the ElastiCache Command Line Interface

Topics

This section describes the prerequisites for running the command line tools, where to get the command line tools, how to set up the tools and their environment, and includes a series of common examples of tool usage.

Prerequisites

This document assumes that you can work in a Linux/UNIX or Windows environment. The Amazon ElastiCache command line tools also work on Mac OS X, which is a UNIX-based environment; however, no specific Mac OS X instructions are included in this guide.

As a convention, all command line text is prefixed with a generic **`PROMPT>`** command line prompt. The actual command line prompt on your machine is likely to be different. We also use **`$`** to indicate a Linux/UNIX specific command and **`C:\>`** for a Windows specific command. The example output resulting from the command is shown immediately thereafter without any prefix.

The Java Runtime Environment

The command line tools used in this guide require Java version 5 or later to run. Either a JRE or JDK installation is acceptable. To view and download JREs for a range of platforms, including Linux/UNIX and Windows, go to Java SE Downloads.

Setting the Java Home Variable

The command line tools depend on an environment variable (`JAVA_HOME`) to locate the Java Runtime. This environment variable should be set to the full path of the directory that contains a subdirectory named

`bin` which in turn contains the executable `java` (on Linux and UNIX) or `java.exe` (on Windows) executable.

To set the Java Home variable

1. Set the Java Home variable.

   - On Linux and UNIX, enter the following command:

     ```
     $ export JAVA_HOME=<PATH>
     ```

   - On Windows, enter the following command:

     ```
     C:\> set JAVA_HOME=<PATH>
     ```

2. Confirm the path setting by running **`$JAVA_HOME/bin/java -version`** and checking the output.

   - On Linux/UNIX, you will see output similar to the following:

     ```
     $ $JAVA_HOME/bin/java -version
     java version "1.6.0_23"
     Java(TM) SE Runtime Environment (build 1.6.0_23-b05)
     Java HotSpot(TM) Client VM (build 19.0-b09, mixed mode, sharing)
     ```

   - On Windows, you will see output similar to the following:

     ```
     C:\> %JAVA_HOME%\bin\java -version
     java version "1.6.0_23"
     Java(TM) SE Runtime Environment (build 1.6.0_23-b05)
     Java HotSpot(TM) Client VM (build 19.0-b09, mixed mode, sharing)
     ```

Getting the Command Line Tools

The command line tools are available as a ZIP file on the ElastiCache Developer Tools web site. These tools are written in Java, and include shell scripts for Windows 2000/XP/Vista/Windows 7, Linux/UNIX, and Mac OSX. The ZIP file is self-contained and no installation is required; simply download the zip file and unzip it to a directory on your local machine.

Setting Up the Tools

The command line tools depend on an environment variable (AWS_ELASTICACHE_HOME) to locate supporting libraries. You need to set this environment variable before you can use the tools. Set it to the path of the directory you unzipped the command line tools into. This directory is named

ElastiCacheCli-A.B.nnnn (A, B and n are version/release numbers), and contains subdirectories named bin and lib.

To set the AWS_ELASTICACHE_HOME environment variable

- Open a command line window and enter one of the following commands to set the AWS_ELASTICACHE_HOME environment variable.
  - On Linux and UNIX, enter the following command:

```
$ export AWS_ELASTICACHE_HOME=<path-to-tools>
```

  - On Windows, enter the following command:

```
C:\> set AWS_ELASTICACHE_HOME=<path-to-tools>
```

To make the tools easier to use, we recommend that you add the tools' BIN directory to your system PATH. The rest of this guide assumes that the BIN directory is in your system path.

To add the tools' BIN directory to your system path

- Enter the following commands to add the tools' BIN directory to your system PATH.
  - On Linux and UNIX, enter the following command:

```
$ export PATH=$PATH:$AWS_ELASTICACHE_HOME/bin
```

  - On Windows, enter the following command:

```
C:\> set PATH=%PATH%;%AWS_ELASTICACHE_HOME%\bin
```

Note
The Windows environment variables are reset when you close the command window. You might want to set them permanently. Consult the documentation for your version of Windows for more information.

Note
Paths that contain a space must be wrapped in double quotes, for example:
"C:\Program Files\Java"

Providing Credentials for the Tools

The command line tools need the AWS Access Key and Secret Access Key provided with your AWS account. You can get them using the command line or from a credential file located on your local system.

The deployment includes a template file ${AWS_ELASTICACHE_HOME}/credential-file-path.template that you need to edit with your information. Following are the contents of the template file:

```
AWSAccessKeyId=<Write your AWS access ID>
AWSSecretKey=<Write your AWS secret key>
```

Important
On UNIX, limit permissions to the owner of the credential file:

```
$ chmod 600 <the file created above>
```

With the credentials file setup, you'll need to set the AWS_CREDENTIAL_FILE environment variable so that the ElastiCache tools can find your information.

To set the AWS_CREDENTIAL_FILE environment variable

1. Set the environment variable:

   - On Linux and UNIX, update the variable using the following command:

     ```
     $ export AWS_CREDENTIAL_FILE=<the file created above>
     ```

   - On Windows, set the variable using the following command:

     ```
     C:\> set AWS_CREDENTIAL_FILE=<the file created above>
     ```

2. Check that your setup works properly, run the following command:

   ```
   elasticache --help
   ```

   You should see the usage page for all ElastiCache commands.

API Command Line Tools Reference

Topics

Common Options for API Tools

Most API tools described in this section accept the set of optional parameters described in the following table.

Option	Description
`--aws-credential-file` *value*	Path to the file containing your AWS access keys. This valuesnapshottoing can be stored in the AWS_CREDENTIAL_FILE environment variable. Example: `--aws-credential-file c:\AWS\mycredentials.pek`
`--connection-timeout` *value*	Specifies the connection timeout in seconds. Default: 30 Example: `--connection-timeout 60`
`--debug`	Causes debug information to be displayed on error. Default: false
`--delimiter` *value*	Specifies the delimiter to use when displaying long results. Default: comma
`--headers`	Displays column headers for tabular or delimited results, or HTTP headers for XML results. Default: off
`--help`	Displays help text for the command. You can also use `help` *commandname*. Default: off
`-I` *value* `--access-key-id` *value*	Specifies the AWS Access Id to use for requests.
`--marker` *value*	The marker returned from a previous request. If this parameter is specified the response includes only records beyond the marker, up to `max-records`. Default: none

Option	Description
`--max-records` *value*	Maximum number of records to return per page. If more records exist than the specified `max-records` value, a marker is included in the response so that the remaining results may be retrieved. The range of allowed values for this parameter is 20-100. Default: 100
`--region` *value*	Overrides the Region specified in the `EC2_REGION` environment variable. Default: The `EC2_REGION` environment variable, or `us-east-1` if the `EC2_REGION` environment variable is not set. Example: `--region eu-west-1`
`-S` *value* `--secret-key-value` *value*	Specifies the AWS Secret Access Key to use for requests.
`--show-empty-fields`	Show empty fields and rows with a `(nil)` value.
`--show-request`	Displays the URL used to call the AWS service.
`--show-table`	Displays the results of the command in fixed column-width format. Empty fields are not displayed. This is the default output format.
`--show-long`	Displays the results of the command delimited by a character. Empty fields are shown as "`(nil)`. The default delimiter character is a comma.
`--show-xml`	Displays the results of the command as raw XML.
`--quiet`	Suppress all output from the command.
`-U` *value* `--url` *value*	Override the URL for the service call with the value supplied. This value is set using the `AWS_ELASTICACHE_URL` environment variable. **Note** You can set the `EC2_REGION` environment variable or use the `--region` parameter to avoid having to pass the `--url` parameter to specify a different regional endpoint.

List of Command Line Operations by Function

Cache Clusters

- elasticache-create-cache-cluster (p. 14)
- elasticache-delete-cache-cluster (p. 31)
- elasticache-describe-cache-clusters (p. 41)
- elasticache-modify-cache-cluster (p. 76)
- elasticache-reboot-cache-cluster (p. 93)

Replication

- elasticache-create-replication-group (p. 27)
- elasticache-delete-replication-group (p. 37)
- elasticache-describe-replication-groups (p. 63)
- elasticache-modify-replication-group (p. 86)

Snapshots

- elasticache-copy-snapshot (p. 11)
- elasticache-create-snapshot (p. 29)
- elasticache-delete-snapshot (p. 39)
- elasticache-describe-snapshots (p. 71)

Reserved Cache Nodes

- elasticache-describe-reserved-cache-nodes (p. 65)
- elasticache-describe-reserved-cache-nodes-offerings (p. 68)
- elasticache-purchase-reserved-cache-nodes-offering (p. 91)

Security Groups

- elasticache-create-cache-security-group (p. 23)
- elasticache-authorize-cache-security-group-ingress (p. 74)
- elasticache-delete-cache-security-group (p. 34)
- elasticache-describe-cache-security-groups (p. 52)
- elasticache-revoke-cache-security-group-ingress (p. 98)

Parameter Groups

- elasticache-create-cache-parameter-group (p. 21)
- elasticache-delete-cache-parameter-group (p. 33)
- elasticache-describe-cache-parameters (p. 49)
- elasticache-modify-cache-parameter-group (p. 82)
- elasticache-describe-cache-parameter-groups (p. 47)
- elasticache-describe-engine-default-parameters (p. 56)
- elasticache-reset-cache-parameter-group (p. 96)

Subnet Groups

- elasticache-create-cache-subnet-group (p. 25)
- elasticache-delete-cache-subnet-group (p. 35)
- elasticache-describe-cache-subnet-groups (p. 54)
- elasticache-modify-cache-subnet-group (p. 84)

Other

- elasticache-describe-cache-engine-versions (p. 44)
- elasticache-describe-events (p. 59)
- elasticache-version (p. 100)

elasticache-copy-snapshot

Description

Creates a copy of an existing snapshot. Since this is a user-requested copy with no retention period, ElastiCache will never automatically delete the copy.

Syntax

```
elasticache-copy-snapshot SourceSnapshotName TargetSnapshotName

--source-snapshot-name value

--target-snapshot-name value

[Common Options]
```

Options

Name	Description	Required
`SourceSnapshotName` `--source-snapshot-name` *`value`*	The name of an existing snapshot from which to copy. This can also be passed as a named parameter using `--source-snapshot-name` *`value`* Type: String Default: None Constraints: Must contain from 1 to 20 alphanumeric characters or hyphens. First character must be a letter. Cannot end with a hyphen or contain two consecutive hyphens. Example: `--source-snapshot-name mysourcesnapshot`	Yes
`TargetSnapshotName` `--target-snapshot-name` *`value`*	A name for the copied snapshot. Type: String Default: None Constraints: Must contain from 1 to 20 alphanumeric characters or hyphens. First character must be a letter. Cannot end with a hyphen or contain two consecutive hyphens. Example: `--target-snapshot-name mytargetsnapshot`	Yes

Output

The command returns the following information:

- **SnapshotName –** The name of the new snapshot.
- **CacheClusterId –** The identifier for the source cache cluster.
- **Status –** The current status of the snapshot.
- **Source –** Whether this is an automatic or manual snapshot. Since this command creates manual snapshots, Source will be *manual*.
- **CacheNodeType –** The compute and memory capacity of the source cache cluster node.
- **Engine –** The name of the cache engine used in the source cache cluster.
- **EngineVersion –** The name of the cache engine software running on the source cache cluster.
- **NumCacheNodes –** The number of nodes in the source cache cluster.
- **PreferredAvailabilityZone –** The preferred Availabilty Zone of the source cache cluster
- **CacheClusterCreateTime –** The date and time when the source cache cluster was created.
- **PreferredMaintenanceWindow –** The window during which patching and cluster modifications are performed on the source cache cluster.
- **Port –** The port used to connect to the source cache cluster.
- **CacheParameterGroupName –** The name of the parameter group used with the source cache cluster.
- **AutoMinorVersionUpgrade –** Indicates whether minor version upgrades are automatically applied to the source cache cluster during its maintenance window.
- **SnapshotRetentionLimit –** The number of days that the source snapshot will be retained before being automatically deleted. (Note that this field has no bearing on the target snapshot: Because the target snapshot is a manual copy, it does not have a retention limit and will not be automatically deleted.
- **SnapshotWindow –** The daily time range during which ElastiCache takes daily snapshots of the source cache cluster.

In addition, for each node in the source cache cluster, the following information is returned:

- **Cache Node Id –** The ID of the node within the source cache cluster. A node ID is a numeric identifier (0001, 0002, etc.).
- **Cache Node Create Time –** The date and time when the node was created in the source cache cluster.
- **Snapshot Create Time –** The date and time at which the snapshot for this node was created.
- **Cache Size –** The size of the cache on the source cache node.

Examples

Copying a Snapshot

This example creates a copy of a snapshot.

```
PROMPT> elasticache-copy-snapshot mysnapshot01 mysnapshot01copy

SNAPSHOT  mysnapshot01copy  mycachecluster01  creating  manual  cache.m1.small
  redis  2.8.6  1  us-east-1e  2014-03-24T20:44:54.989Z  sat:03:00-sat:04:00
6379  default.redis2.8  true  0  06:00-07:00
```

```
            NODESNAPSHOT  0001  2014-03-24T20:44:54.989Z  2014-03-24T21:18:04Z
 3 MB
```

Related Operations

- elasticache-create-snapshot (p. 29)
- elasticache-describe-snapshots (p. 71)
- elasticache-describe-snapshots (p. 39)

elasticache-create-cache-cluster

Description

Creates a new cache cluster.

Syntax

```
elasticache-create-cache-cluster CacheClusterId
-s (--security-group-ids) value[,value...]
-sn (--cache-subnet-group-name) value
-sg (--cache-security-group-names) value[,value...]
-c (--cache-node-type) value
-e (--engine) value
-n (--num-cache-nodes) value
[-au (--auto-minor-version-upgrade) ]
[-pg (--cache-parameter-group-name) value ]
[-p (--port) value ]
[-rg (--replication-group-id) value ]
[-sa (--snapshot-arns) value ]
[-t (--notification-topic-arn) value ]
[-v (--engine-version) value ]
[-w (--preferred-maintenance-window value ]
[-z (--preferred-availability-zone) value ]
[-sp (--snapshot-name value ]
[-sr (--snapshot-retention-limit value ]
[-sw (--snapshot-window value ]
[Common Options]
```

Options

Name	Description	Required
CacheClusterId	Cache cluster identifier. This is the unique key that identifies a cache cluster. This parameter is stored as a lowercase string. Type: String Default: None Constraints: Must contain from 1 to 20 alphanumeric characters or hyphens. First character must be a letter. Cannot end with a hyphen or contain two consecutive hyphens. Example: myCacheCluster	Yes
`-s` *value[,value...]* `--security-group-ids` *value[,value...]*	The IDs of Amazon Virtual Private Cloud security groups to associate with the cache cluster. If this parameter is omitted, then the cache cluster will be created outside of an Amazon Virtual Private Cloud (VPC). Type: String[] Example: `--security-group-ids mysecuritygroup1,mysecuritygroup2`	No
`-sn` *value* `--cache-subnet-group-name` *value*	The cache subnet group name to associate with the cache cluster. If this parameter is omitted, then the cache cluster will be created outside of an Amazon Virtual Private Cloud (VPC). Type: String Example: `--cache-subnet-group-name mysubnetgroup1`	No
`-sg` *value[,value...]* `--cache-security-group-names` *value[,value...]*	A list of one or more cache security groups to associate with this cache cluster. Use this parameter only when you are creating a cluster outside of an Amazon Virtual Private Cloud (VPC). Type: String[] Example: `--cache-security-group-names mycachesg`	No

Name	Description	Required
`-c` *value* `--cache-node-type` *value*	Contains the compute and memory capacity of the cache cluster. Type: String Default: None Valid values: `cache.t1.micro` | `cache.m1.small` | `cache.m1.medium` | `cache.m1.large` | `cache.m1.xlarge` | `cache.m3.medium` | `cache.m3.large` | `cache.m3.xlarge` | `cache.m3.2xlarge` | `cache.m2.xlarge` | `cache.m2.2xlarge` | `cache.m2.4xlarge` | `cache.c1.xlarge` | `cache.r3.large` | `cache.r3.xlarge` | `cache.r3.2xlarge` | `cache.r3.4xlarge` | `cache.r3.8xlarge` Example: `--cache-node-type cache.m1.xlarge`	Yes
`-e` *value* `--engine` *value*	The name of the cache engine to be used for this cache cluster. Type: String Default: None Valid values: *`memcached`* | *`redis`* Example: `--engine memcached`	Yes
`-au` *value* `--auto-minor-version-upgrade` *value*	Indicates whether minor version upgrades will automatically be applied to the cache cluster during the maintenance window. Type: String Default: `true`	No
`-pg` *value* `--cache-parameter-group-name` *value*	The cache parameter group to associate with the cache cluster. Type: String Default: The default cache parameter group for the specified engine. Example: `-pg mycacheparametergroup1`	No
`-n` *value* `--num-cache-nodes` *value*	Number of cache nodes. Type: Integer Valid values: An integer from 1 to 20. For cache clusters running Redis, the value must be 1. Example: `--num-cache-nodes 2`	Yes

Name	Description	Required
`-p` *value* `--port` *value*	Port number that the cache cluster uses for connections. Type: Integer Default: `11211` Example: `--port 1234`	No
`-rg` *value* `--replication-group-id` *value*	The identifier of an existing replication group. If this parameter is specified, the new cache cluster will be created in the specified replication group; otherwise, the cache cluster will not be created in a replication group. Type: String Example: `--replication-group-id my-repgroup`	No
`-sa` *value* `--snapshot-arns` *value*	An Amazon Resource Name (ARN) that uniquely identifies a Redis RDB snapshot file stored in Amazon S3. The snapshot file will populate the Redis cache in the new cache cluster. The Amazon S3 object name in the ARN cannot contain any commas. Example: `arn:aws:s3:::my_bucket/snapshot1.rdb` **Note:** This parameter is valid only if the *--engine* parameter is *redis*. Type: String Example: `--snapshot-arns http://[your-bucket-name].S3.amazonaws.com/mysnapshot`	No
`-t` *value* `--notification-topic-arn` *value*	The Amazon Simple Notification Service (SNS) topic used to publish notifications related to this cache cluster. Type: String	No
`-v` *value* `--engine-version` *value*	The version of the cache engine to use for this cache cluster. Type: String	No

Name	Description	Required

`-w value`
 	
`--preferred-maintenance-window value`
	Specifies the weekly time range during which maintenance on the cache cluster is performed. It is specified as a range in the format ddd:hh24:mi-ddd:hh24:mi (24H Clock UTC). The minimum maintenance window is a 60 minute period.
	
	Type: String
	
	Example: `--preferred-maintenance-window sun:22:00-sun:23:00`
		No

`-z value`
 	
`--preferred-availability-zone value`
	The name of the EC2 Availability Zone where your cache cluster will be created.
	
	Note
	All cache nodes belonging to a cache cluster are placed in the preferred Availability Zone.
	
	Type: String
	
	Default: A random, system-chosen Availability Zone.
	
	Example: `--preferred-availability-zone us-east-1a`
		No

`-sp value`
 	
`--snapshot-name value`
	The user-supplied name for the snapshot.
	
	Type: String
		No

`-sr value`
 	
`--snapshot-retention-limit value`
	The number of days for which ElastiCache will retain automatic cache cluster snapshots before deleting them. For example, if you set`SnapshotRetentionLimit` to 5, then a snapshot that was taken today will be retained for 5 days before being deleted.
	
	Type: Integer
		No

`-sw value`
 	
`--snapshot-window value`
	The daily time range (in UTC) during which ElastiCache will begin taking a daily snapshot of your cache cluster.
	
	Type: String
	
	Example: `--snapshot-window 18:00-19:00`
		No

Output

The command returns the following information:

- **Cache Cluster Id –** The user-supplied cache cluster identifier; this is the unique key that identifies a cache cluster

- **Client Download Landing Page –** A URL from which you can download the Amazon ElastiCache Cluster Client library.
- **Type –** The compute and memory capacity of the cache cluster
- **Engine –** The name of the cache engine to be used for this cache cluster
- **Status –** The current status of the cache cluster. Valid values: `available` | `creating` | `deleted` | `deleting` | `modifying`
- **Number Of Nodes –** The number of cache nodes within this cluster
- **Version –** The version number of the cache engine software
- **Snapshot Retention Limit –** The number of days for which automatic snapshots will be retained
- **Snapshot Window –** The daily time range during which snapshots will be taken
- **CacheSecurity Group Name –** The name of the security group applied to the cache cluster
- **Cache Security Group Status –** The status of the security group
- **Cache Parameter Group Name –** The name of the parameter group applied to the cache cluster
- **Cache Parameter Group Status –** The parameter group status for this node. If this node needs to be rebooted to apply parameter group changes, the status will be `pending-reboot`. If this node is being rebooted, the status will be `applying`. Otherwise, the status will be `in-sync`.

Examples

Create a cache cluster with the minimal set of parameters

This example a cache cluster with the minimal set of parameters (cache cluster Id, number of nodes, class, engine, and security groups).

```
PROMPT> elasticache-create-cache-cluster mycachecluster01 -n 3 -c cache.m1.large
 -e memcached -sg default

CACHECLUSTER  mycachecluster01  cache.m1.large  memcached  creating  3  1.4.5
   SECGROUP  default  active
   PARAMGRP  default.memcached1.4  in-sync
```

Create a cache cluster using all optional parameters

This example a cache cluster with several optional parameters.

```
PROMPT> elasticache-create-cache-cluster mycachecluster01 --num-cache-nodes 3
--cache-node-type cache.m1.large --engine memcached --cache-security-group-names
 default --port 12345 --preferred-availability-zone us-east-1d --cache-parameter-
group-name default.memcached1.4 --preferred-maintenance-window Mon:02:45-
Mon:03:45 --auto-minor-version-upgrade true --notification-topic-arn
arn:aws:sns:us-east-1:1234567890:TestSNS

CACHECLUSTER  mycachecluster03  cache.m1.large  memcached  creating  3  us-east-
1d  1
.4.5
   SECGROUP  default  active
   PARAMGRP  default.memcached1.4  in-sync
   NOTIFICATION  arn:aws:sns:us-east-1:1234567890:TestSNS
active
```

Related Operations

- elasticache-describe-cache-clusters (p. 41)
- elasticache-modify-cache-cluster (p. 76)
- elasticache-delete-cache-cluster (p. 31)

elasticache-create-cache-parameter-group

Description

Creates a cache parameter group.

Syntax

```
elasticache-create-cache-parameter-group CacheParameterGroupName

-d (--description) value

-fm (--cache-parameter-group-family) value

[Common Options]
```

Options

Name	Description	Required
CacheParameterGroupName	The name for the cache parameter group. Type: String Default: None Constraints: Must not start with "default". Example: `--cache-parameter-group-name mycacheparametergroup1`	Yes
`-d` *value* `--description` *value*	The description for the cache parameter group. Type: String Default: None Constraints: Must not exceed 255 characters. Example: `-d "This is my cache parameter group"`	Yes

Name	Description	Required
`-fm` *value* `--cache-parameter-group-family` *value*	The family from which to derive the new cache parameter group. A cache parameter group family defines the valid cache engine software that this parameter group is compatible with. For example, a cache parameter group with a family of *redis-*.** can only be used with a cache cluster running Redis. Type: String Default: None Valid values: `memcached1.4` | `redis2.6` | `redis2.8` Example: `-fm memcached1.4`	Yes

Output

The command returns the following information:

- **Group Name –** The user-supplied cache parameter group name
- **Parameter Group Family –** Parameter group family to which this group applies.
- **Description –** The description of the cache parameter group

Examples

Create a Cache Parameter Group

This example creates a new cache parameter group.

```
PROMPT> elasticache-create-cache-parameter-group mycacheparametergroup1 -fm
memcached1.4 -d "My first cache parameter group"

CACHEPARAMETERGROUP  mycacheparametergroup1  memcached1.4  My first cache
parameter group
```

Related Operations

- elasticache-delete-cache-parameter-group (p. 33)
- elasticache-modify-cache-parameter-group (p. 82)
- elasticache-describe-cache-parameter-groups (p. 47)

elasticache-create-cache-security-group

Description

Creates a new cache security group.

Only use cache security groups when you are creating a cluster outside of an Amazon Virtual Private Cloud (VPC). Inside of a VPC, use VPC security groups.

Syntax

```
elasticache-create-cache-security-group CacheSecurityGroupName

-d (--description) value

[Common Options]
```

Options

Name	Description	Required
CacheSecurityGroupName	The name for the cache security group. This value is stored as a lowercase string. Type: String Default: None Constraints: Must contain visible characters only. Must contain no more than 255 alphanumeric characters or hyphens. Must not be *default*.	Yes
`-d` *value* `--description` *value*	The description for the cache security group. Type: String Default: None Constraints: Must not exceed 255 characters. Example: `-d "This is my cache security group"`	Yes

Output

The command returns the following information:

- **Name –** Cache security group name
- **Description –** Cache security group description
- **EC2 Group Name –** EC2 security group name
- **EC2 Owner Id –** EC2 security group owner
- **Status –** Status of authorization. Valid values: `authorizing` | `authorized` | `revoking`

Examples

Create a Cache Security Group

This example creates a new cache security group.

```
PROMPT> elasticache-create-cache-security-group --cache-security-group-name
mycachesecuritygroup --description "My Security Group"

SECGROUP  mycachesecuritygroup  My Security Group
```

Related Operations

- elasticache-delete-cache-security-group (p. 34)
- elasticache-authorize-cache-security-group-ingress (p. 74)
- elasticache-describe-cache-security-groups (p. 52)

elasticache-create-cache-subnet-group

Description

Creates a cache subnet group.

Syntax

```
elasticache-create-cache-subnet-group CacheSubnetGroupName
--cache-subnet-group-name value
-d (--description) value
-s (--subnet-ID-list) "value,value,value,..."
[Common Options]
```

Options

Name	Description	Required
`CacheSubnetGroupName` `--cache-subnet-group-name` *`value`*	The name of new subnet group. You can also set this value using `--cache-subnet-group-name`. Type: String Default: None Constraints: Maximum length is 255 characters. Example: `mysubnetgroup`	Yes
`-d` `--description` *`value`*	The description of the new subnet group. Type: String Default: None Constraints: Maximum length is 255 characters. Example: `--description "Created by John Smith"`	Yes
`-s` `--subnet-ID-list` *`"value,value,value,..."`*	Subnet IDs to place into the subnet group. All input subnet IDs must be in same VPC. Type: String Default: None Constraints: Must be an existing subnet ID. Example: `-s "subnet-e0225b8b"`	Yes

Output

The command returns the following information:

- **Name –** Subnet group name.
- **Description –** Subnet group description.
- **VPC ID –** Virtual Private Cloud identifier of the subnet group.
- **Subnet Identifier –** Subnet group identifier.
- **Subnet Availability Zone –** Availability Zone for the subnet.

Examples

Creating a Cache Subnet Group

This example creates a cache subnet group with one subnet.

```
PROMPT> elasticache-create-cache-subnet-group --cache-subnet-group-name my
cachesubnetgroup --description "Created by John Smith" --subnet-ID-list subnet-
85596dee


SUBNETGROUP  mycachesubnetgroup  Created by John Smith  vpc-8c596de7
      SUBNET  subnet-85596dee  us-east-1d
```

Related Operations

- elasticache-delete-cache-subnet-group (p. 35)
- elasticache-describe-cache-subnet-groups (p. 54)
- elasticache-modify-cache-subnet-group (p. 84)

elasticache-create-replication-group

Description

Creates a replication group.

Syntax

```
elasticache-create-replication-group ReplicationGroupId
-d (--description) value
-m (--primary-cluster-id) value
[Common Options]
```

Options

Name	Description	Required
`ReplicationGroupId` `--replication-group-id` *value*	The name of the replication group. Type: String. Not case-sensitive. Default: None Constraints: Can contain up to 20 alphanumeric characters or hyphens. Must be unique within your AWS account. Example: `my-repgroup`	Yes
`-d` `--description` *value*	A description of the replication group. Type: String Default: None Constraints: Can be up to 255 characters. Example: `--description "This is my new replication group"`	Yes
`-m` `--primary-cluster-id` *value*	The ID of the cache cluster that will be the primary for this replication group. Type: String Default: None Constraints: Must be an existing cache cluster that is not already part of a replication group. Example: `-m my-primary-cluster`	Yes

Output

The command returns the following information:

- **Replication Group Id –** The name of the replication group that you provided.
- **Replication Group Description –** The description of the replication group that you provided.
- **Replication Group Status –** The current status of the replication group.
- **Cluster Id –** The identifier of the primary cache cluster.

Examples

Creating a Replication Group

This example creates a replication group named `my-repgroup` whose primary cache cluster will be `my-primary-cluster`.

```
PROMPT> elasticache-create-replication-group --replication-group-id my-repgroup
 --description "This is my new replication group" --primary-cluster-id my-
primary-cluster


REPLICATIONGROUP  my-repgroup  This is my new replication group   creating
      CLUSTERID  my-primary-cluster
```

Related Operations

- elasticache-describe-replication-groups (p. 63)
- elasticache-modify-replication-group (p. 86)
- elasticache-delete-replication-group (p. 37)

elasticache-create-snapshot

Description

Creates a copy of an entire cache cluster as of a specific moment in time.

Syntax

```
elasticache-create-snapshot SnapshotName --cache-cluster-id value
[Common Options]
```

Options

Name	Description	Required
`SnapshotName` `--snapshot-name` *`value`*	A name for the snapshot being created. This can also be passed as a named parameter using `--snapshot-name` *`value`* Type: String Default: None Example: `--snapshot-name mysnapshot01`	Yes
`--cache-cluster-id` *`value`*	The identifier of an existing cache cluster. The snapshot will be created from this cache cluster. Type: String Default: None Example: `--cache-cluster-id mycachecluster`	Yes

Output

The command returns the following information:

- **SnapshotName –** The name of the snapshot.
- **CacheClusterId –** The identifier for the source cache cluster.
- **Status –** The current status of the snapshot.
- **Source –** Whether this is an automatic or manual snapshot. Since this command creates manual snapshots, Source will be *manual*.
- **CacheNodeType –** The compute and memory capacity of the source cache cluster node.
- **Engine –** The name of the cache engine used in the source cache cluster.
- **EngineVersion –** The name of the cache engine software running on the source cache cluster.
- **NumCacheNodes –** The number of nodes in the source cache cluster.
- **PreferredAvailabilityZone –** The preferred Availabilty Zone of the source cache cluster
- **CacheClusterCreateTime –** The date and time when the source cache cluster was created.

- **PreferredMaintenanceWindow –** The window during which patching and cluster modifications are performed on the source cache cluster.
- **Port –** The port used to connect to the source cache cluster.
- **CacheParameterGroupName –** The name of the parameter group used with the source cache cluster.
- **AutoMinorVersionUpgrade –** Indicates whether minor version upgrades are automatically applied to the source cache cluster during its maintenance window.
- **SnapshotRetentionLimit –** The number of days that this snapshot will be retained before being automatically deleted. Since this command creates manual snapshots, SnapshotRetentionLimit will be *0* (the snapshot will not be automatically deleted).
- **SnapshotWindow –** The daily time range during which ElastiCache takes daily snapshots of the source cache cluster.

In addition, for each node in the source cache cluster, the following information is returned:

- **Cache Node Id –** The ID of the node within the source cache cluster. A node ID is a numeric identifier (0001, 0002, etc.).
- **Cache Node Create Time –** The date and time when the node was created in the source cache cluster.
- **Snapshot Create Time –** The date and time at which the snapshot for this node was created.
- **Cache Size –** The size of the cache on the source cache node.

Examples

Creating a Snapshot

This example creates a snapshot of an existing cache cluster.

```
PROMPT> elasticache-create-snapshot --cache-cluster-id mycachecluster01 --
snapshot-name mysnapshot01

SNAPSHOT  mysnapshot01  mycachecluster01  creating  manual  cache.m1.small
redis  2.8.6  1  us-east-1e  2014-03-24T20:44:54.989Z  sat:03:00-sat:04:00
6379  default.redis2.8  true  0  06:00-07:00
            NODESNAPSHOT  0001  2014-03-24T20:44:54.989Z
```

Related Operations

- elasticache-copy-snapshot (p. 11)
- elasticache-delete-snapshot (p. 39)
- elasticache-describe-snapshots (p. 71)

elasticache-delete-cache-cluster

Description

Deletes a cache cluster. Once started, the process cannot be stopped, and all of the nodes in the cache cluster will no longer be accessible.

Syntax

```
elasticache-delete-cache-cluster CacheClusterId

[ -f (--force) ]

[ -i (--final-snapshot-identifier) Value ]

[Common Options]
```

Options

Name	Description	Required
CacheClusterId	Cache cluster identifier.	Yes
`-f` *value* `--force`	Suppresses the confirmation prompt for the delete operation.	No

`-i`
 	
`--final-snapshot-identifier`
	Identifier for a final snapshot. If specified, ElastiCache will create a snapshot of the replication group before deleting the replication group	No

Output

The command returns the following information:

- **Cache Cluster Id –** The user-supplied cache cluster identifier; this is the unique key that identifies a cache cluster
- **Address –** The address used to connect to the cache cluster
- **Port –** The port used to connect to the source cache cluster.
- **Client Download Landing Page –** A URL from which you can download the Amazon ElastiCache Cluster Client library.
- **Created –** The data and time the cache cluster was created, in 24-hour UTC format
- **Type –** The compute and memory capacity of the cache cluster
- **Engine –** The name of the cache engine to be used for this cache cluster
- **Status –** The current status of the cache cluster. Valid values: `available` | `creating` | `deleted` | `deleting` | `modifying`
- **Number Of Nodes –** The number of cache nodes within this cluster
- **Preferred AZ –** The preferred Availabilty Zone of this cache cluster
- **Version –** The version number of the cache engine software
- **CacheSecurity Group Name –** The name of the security group applied to the cache cluster
- **Cache Security Group Status –** The status of the security group

- **Cache Parameter Group Name –** The name of the parameter group applied to the cache cluster
- **Cache Parameter Group Status –** The parameter group status for this node. If this node needs to be rebooted to apply parameter group changes, the status will be `pending-reboot`. If this node is being rebooted, the status will be `applying`. Otherwise, the status will be `in-sync`.

Examples

Delete a cache cluster

This example deletes a cache cluster.

```
PROMPT> elasticache-delete-cache-cluster mycachecluster03

    Once you begin deleting this cache cluster, all of the nodes in the cluster

    will no longer be able to accept connections.
    Are you sure you want to delete this cache cluster? [Ny]y
CACHECLUSTER  mycachecluster03  2013-07-26T23:55:19.073Z  cache.m1.large  mem
cached
deleting  3  us-east-1d  1.4.5
      SECGROUP  default  active
      PARAMGRP  default.memcached1.4  in-sync
```

Related Operations

- elasticache-create-cache-cluster (p. 14)
- elasticache-describe-cache-clusters (p. 41)
- elasticache-delete-cache-cluster (p. 31)

elasticache-delete-cache-parameter-group

Description

Immediately deletes a named cache parameter group. The specified cache parameter group cannot be associated with any cache clusters.

Syntax

```
elasticache-delete-cache-parameter-group CacheParameterGroupName

[ -f (--force) ]

[Common Options]
```

Options

Name	Description	Required
CacheParameterGroupName	Cache parameter group name. This value can also be passed using the `--cache-parameter-group-name` named parameter. Constraints: Must be the name of an existing cache parameter group.	Yes
-f *--force*	Delete the cache parameter group without verification prompting.	No

Examples

Delete a Cache Parameter Group

This example deletes a cache parameter group.

```
PROMPT> elasticache-delete-cache-parameter-group mycacheparametergroup1

   Once you begin deleting this parameter group, it will no longer be available

    for configuring your cache clusters.
    Are you sure you want to delete this parameter group [Ny]y
```

Related Operations

- elasticache-create-cache-parameter-group (p. 21)
- elasticache-describe-cache-parameter-groups (p. 47)
- elasticache-modify-cache-parameter-group (p. 82)

elasticache-delete-cache-security-group

Description

Deletes a cache security group. The specified security group cannot be in use by any cache clusters.

Syntax

```
elasticache-delete-cache-security-group CacheSecurityGroupName

[ -f (--force) ]

[Common Options]
```

Options

Name	Description	Required
CacheSecurityGroupName	Cache security group identifier. This value can also be passed using the `--cache-security-group-name` named parameter. Constraints: Must be the name of an existing cache security group.	Yes

`-f`
 	
`--force`
	Suppresses the confirmation prompt for the delete operation.	No

Examples

Delete a Cache Security Group

This example deletes a cache security group.

```
PROMPT> elasticache-delete-cache-security-group mysecuritygroup

Once you begin deleting this security group, it will no longer be available
for setting access permissions on your cache clusters.
Are you sure you want to delete this security group [Ny]
```

Related Operations

- elasticache-create-cache-security-group (p. 23)
- elasticache-describe-cache-security-groups (p. 52)

elasticache-delete-cache-subnet-group

Description

Deletes a cache subnet group.

Syntax

```
elasticache-delete-cache-subnet-group CacheSubnetGroupName

--cache-subnet-group-name value

[Common Options]
```

Options

Name	Description	Required
`CacheSubnetGroupName` `--cache-subnet-group-name` *`value`*	The name of an existing cache subnet group. You can specify the subnet group as the first argument to the command, or use the parameter `--cache-subnet-group-name`. Type: String Default: None Constraints: Maximum length is 255 characters. Example: `mysubnetgroup`	Yes

Output

This command does not generate any output.

Examples

Deleting a Cache Subnet Group

This example shows how to delete a cache subnet group.

Note
This example will cause an error if a cache cluster is currently using the cache subnet group.

```
PROMPT> elasticache-delete-cache-subnet-group mycachesubnetgroup
```

Related Operations

- elasticache-create-cache-subnet-group (p. 25)
- elasticache-describe-cache-subnet-groups (p. 54)

- elasticache-modify-cache-subnet-group (p. 84)

elasticache-delete-replication-group

Description

Deletes a replication group, all its cache clusters, and for each cache cluster, the node group and all its nodes. This is the default behavior; however, you can optionally delete only the read replicas, while retaining the primary cache cluster.

Syntax

```
elasticache-delete-replication-group ReplicationGroupId

--replication-group-id value

-f (--force)

-r (--retain-primary-cluster) value

-i (--final-snapshot-identifier) value

[Common Options]
```

Options

Name	Description	Required
`ReplicationGroupId` `--replication-group-id` *`value`*	The name of the replication group to be deleted. Type: String. Not case-sensitive. Default: None Constraints: Must be the name of an existing replication group. Example: `my-repgroup`	Yes

`-f`
 	
`--force`
	Forces the delete operation to proceed without any confirmation. If this option is not specified, a confirmation prompt will appear.	No

`-r`
 	
`--retain-primary-cluster`
	If specified, this option will retain the replication group's primary cluster and convert it into a standalone cluster with no read replicas Type: Boolean (true or false).	No

`-i`
 	
`--final-snapshot-identifier`
	Identifier for a final snapshot. If specified, ElastiCache will create a snapshot of the replication group before deleting the replication group.	No

Output

The command returns the following information:

- **Replication Group Id –** The name of the replication group that will be deleted.
- **Replication Group Description –** A description of the replication group.
- **Replication Group Status –** The current status of the replication group.
- **Cluster Id –** A list of identifiers of all cache clusters within the replication group.
- **Node Group Id –** The name of the node group that is associated with the replication group that will be deleted.
- **Node Group Address –** The IP address used to connect to the primary cache node for the node group.
- **Node Group Port –** The port number used to connect to the primary cache node for the node group.
- **Node Group Status –** The current status of the node group.
- **Node Group Member CacheClusterId –** User-supplied cache identifier. This is the unique key that identifies a cache cluster for a customer.
- **Node Group Member CacheNodeId –** Cache node identifier. This is the unique key that identifies a cache cluster node.
- **Node Group Member Address –** The IP address used to connect to an individual cache cluster node in the node group.
- **Node Group Member Port –** The port number used to connect to an individual cache cluster node in the node group.
- **Node Group Member PreferredAZ –** The preferred Availability Zone of the cache cluster node.
- **Node Group Member CurrentRole –** The current role of the cache cluster node.

Examples

Deleting a Replication Group

This example deletes a replication group named `my-repgroup`.

```
PROMPT> elasticache-delete-replication-group --replication-group-id my-repgroup


Once you begin deleting this replication group, all of the cache clusters in
the group will be deleted as well.
Are you sure you want to delete this replication group and its caches? [Ny]y
REPLICATIONGROUP  my-repgroup  My replication group  deleting
      CLUSTERID  my-cluster
      NODEGROUP  0001  deleting
            NODEGROUPMEMBER  my-cluster  0001  my-cluster.cqqvtk.0001.amazon
aws.com  6379  us-east-1c  primary
```

Related Operations

- elasticache-delete-cache-subnet-group (p. 35)
- elasticache-describe-cache-subnet-groups (p. 54)
- elasticache-modify-cache-subnet-group (p. 84)

elasticache-delete-snapshot

Description

Deletes a snapshot. Once started, the process cannot be stopped, and the snapshot will no longer be available.

Syntax

```
elasticache-delete-snapshot SnapshotName

[ -f (--force) ]

[Common Options]
```

Options

Name	Description	Required
`SnapshotName` `--snapshot-name` *`value`*	The name of the snapshot to be deleted.	Yes

`-f`
 	
`--force`
	Suppresses the confirmation prompt for the delete operation.	No

Output

The command returns the following information:

- **SnapshotName –** The name of the snapshot.
- **CacheClusterId –** The identifier for the source cache cluster.
- **Status –** The current status of the snapshot.
- **Source –** Whether this is an automatic or manual snapshot. Since this command creates manual snapshots, Source will be *manual*.
- **CacheNodeType –** The compute and memory capacity of the source cache cluster node.
- **Engine –** The name of the cache engine used in the source cache cluster.
- **EngineVersion –** The name of the cache engine software running on the source cache cluster.
- **NumCacheNodes –** The number of nodes in the source cache cluster.
- **PreferredAvailabilityZone –** The preferred Availabilty Zone of the source cache cluster
- **CacheClusterCreateTime –** The date and time when the source cache cluster was created.
- **PreferredMaintenanceWindow –** The window during which patching and cluster modifications are performed on the source cache cluster.
- **Port –** The port used to connect to the source cache cluster.
- **CacheParameterGroupName –** The name of the parameter group used with the source cache cluster.
- **AutoMinorVersionUpgrade –** Indicates whether minor version upgrades are automatically applied to the source cache cluster during its maintenance window.

- **SnapshotRetentionLimit –** The number of days that this snapshot will be retained before being automatically deleted. Since this command creates manual snapshots, SnapshotRetentionLimit will be *0* (the snapshot will not be automatically deleted).
- **SnapshotWindow –** The daily time range during which ElastiCache takes daily snapshots of the source cache cluster.

In addition, for each node in the source cache cluster, the following information is returned:

- **Cache Node Id –** The ID of the node within the source cache cluster. A node ID is a numeric identifier (0001, 0002, etc.).
- **Cache Node Create Time –** The date and time when the node was created in the source cache cluster.
- **Snapshot Create Time –** The date and time at which the snapshot for this node was created.
- **Cache Size –** The size of the cache on the source cache node.

Examples

Deleting a Snapshot

This example deletes a snapshot. By default, you must confirm this operation in order for it to proceed.

```
PROMPT> elasticache-delete-snapshot mysnapshot01

    Once you begin deleting this snapshot, it will no longer be available for
    warm starting a cache cluster.
    Are you sure you want to delete this snapshot? [Ny]y

SNAPSHOT  mysnapshot01  mycachecluster01  deleting  manual  cache.m1.small
redis  2.8.6  1  us-east-1e  2014-03-24T20:44:54.989Z  sat:03:00-sat:04:00
6379  default.redis2.8  true  0  06:00-07:00
            NODESNAPSHOT  0001  2014-03-24T20:44:54.989Z  2014-03-24T21:18:04Z
  3 MB
```

Related Operations

- elasticache-copy-snapshot (p. 11)
- elasticache-create-snapshot (p. 29)
- elasticache-describe-snapshots (p. 71)

elasticache-describe-cache-clusters

Description

Returns information about the cache clusters (and, optionally, their cache nodes) for this account. If you provide a cache cluster identifier, this command returns information only about the specified cluster.

Syntax

```
elasticache-describe-cache-clusters [CacheClusterId ]

[-sn (--show-cache-node-info)] value

[Common Options]
```

Options

Name	Description	Required
CacheClusterId	Cache cluster identifier. This is the unique key that identifies a cache cluster. Stored as a lowercase string. Type: String Default: None Constraints: Must contain from 1 to 20 alphanumeric characters or hyphens. First character must be a letter. Cannot end with a hyphen or contain two consecutive hyphens. Example: `myCacheCluster`	No

`-sn`
 	
`--show-cache-node-info`
	Indicates that node information should be returned.
	
	Type: Boolean
	
	Default: false
		No

Output

The command returns the following information:

- **Cache Cluster Id –** The user-supplied cache cluster identifier; this is the unique key that identifies a cache cluster
- **Address –** The address used to connect to the cache cluster
- **Port –** The port used to connect to the source cache cluster.
- **Client Download Landing Page –** A URL from which you can download the Amazon ElastiCache Cluster Client library.
- **Created –** The data and time the cache cluster was created, in 24-hour UTC format
- **Type –** The compute and memory capacity of the cache cluster
- **Engine –** The name of the cache engine to be used for this cache cluster

- **Status –** The current status of the cache cluster. Valid values: `available | creating | deleted | deleting | modifying`
- **Number Of Nodes –** The number of cache nodes within this cluster
- **PreferredAZ –** The preferred Availabilty Zone of this cache cluster
- **Version –** The version number of the cache engine software
- **Replication Group –** The replication group, if any, to which this cache cluster belongs
- **Snapshot Retention Limit –** The number of days for which automatic snapshots will be retained
- **Snapshot Window –** The daily time range during which snapshots will be taken
- **CacheSecurity Group Name –** The name of the security group applied to the cache cluster
- **Cache Security Group Status –** The status of the security group
- **Cache Parameter Group Name –** The name of the parameter group applied to the cache cluster
- **Cache Parameter Group Status –** The status of the parameter group

Examples

Get a Description of All Cache Clusters

This example returns a description of all cache clusters for the account.

```
PROMPT> elasticache-describe-cache-clusters


CACHECLUSTER  mycachecluster01  2013-07-26T23:45:20.937Z  cache.m1.large  mem
cached
available  3  us-east-1b  1.4.5
      SECGROUP  default  active
      PARAMGRP  default.memcached1.4  in-sync
CACHECLUSTER  mycachecluster03  2013-07-26T23:55:19.073Z  cache.m1.large  mem
cached
available  3  us-east-1d  1.4.5
      SECGROUP  default  active
      PARAMGRP  default.memcached1.4  in-sync
     NOTIFICATION  arn:aws:sns:us-east-1:123456789012:ElastiCacheNotifications
active
```

Get a Description of A Specified Cache Cluster with Node Information

This example returns a description of a specific cache cluster, showing individual cache nodes and the config endpoint (for use with cache node auto discovery).

```
PROMPT> elasticache-describe-cache-clusters mycachecluster01 --show-cache-node-
info


CACHECLUSTER  mycachecluster01
      mycachecluster01.khd63w.cfg.use1dv.cache.amazonaws.com          11211
      https://console.aws.amazon.com/elasticache/home#client-download:
```

```
2013-07-26T23:45:20.937Z  cache.m1.large  memcached
available  3  us-east-1b  1.4.5
     SECGROUP  default  active
     PARAMGRP  default.memcached1.4  in-sync
    CACHENODE  0013  available  mycachecluster01.khd63w.0013.use1dv.cache.amazon
aws.com  11211  in-sync
    CACHENODE  0014  available  mycachecluster01.khd63w.0014.use1dv.cache.amazon
aws.com  11211  in-sync
    CACHENODE  0015  available  mycachecluster01.khd63w.0015.use1dv.cache.amazon
aws.com  11211  in-sync
```

Related Operations

- elasticache-create-cache-cluster (p. 14)
- elasticache-delete-cache-cluster (p. 31)
- elasticache-modify-cache-cluster (p. 76)

elasticache-describe-cache-engine-versions

Description

Returns information about the available cache engine versions. If one or more of the `--engine`, `--version`, or `--cache-parameter-group-family` arguments are specified, this command will return only those version records with the specified values for the specified fields. If all arguments are omitted, all records will be returned.

Syntax

```
elasticache-describe-cache-engine-versions
[-d (--default-only) ]
[-e (--engine) value ]
[-f (--cache-parameter-group-family) value ]
[-v (--engine-version) value ]
[Common Options]
```

Options

Name	Description	Required
`-d` `--default-only`	Return only the default version for the other specified parameters. Type: String Default: None Constraints: Maximum length is 255 characters. Example: `mysubnetgroup`	No
`-e` `--engine` *value*	The name of the cache engine. Type: String Default: None Constraints: Maximum length is 255 characters. Example: `mysubnetgroup`	No

Name	Description	Required
`-f` `--cache-parameter-group-family` *`value`*	The parameter group family to which the version belongs. Type: String Default: None Constraints: Maximum length is 255 characters. Example: `mysubnetgroup`	No
`-v` `--engine-version` *`value`*	The cache engine version string. Type: String Default: None Constraints: Maximum length is 255 characters. Example: `mysubnetgroup`	No

Output

The command returns the following information:

- **Engine –** The name of the cache engine.
- **Version –** Cache engine version number.
- **Parameter Group Family –** The version's parameter group family. Only parameter groups with the same parameter group family can be applied to cache clusters running this version.
- **Engine Description –** Description of the cache engine.
- **Engine Version Description –** Description of the cache engine version.

Examples

Describing Cache Engine Versions

This example shows how to describe a cache subnet group.

```
PROMPT> elasticache-describe-cache-engine-versions

VERSION  Engine     Version  Parameter Group Family  Engine Description  Engine
 Version Description
VERSION  memcached  1.4.14   memcached1.4            memcached           mem
cached version 1.4.14
VERSION  memcached  1.4.5    memcached1.4            memcached           mem
cached version 1.4.5
VERSION  redis      2.6.13   redis2.6                Redis               redis
 version 2.6.13
VERSION  redis      2.8.6    redis2.8                Redis               redis
 version 2.8.6
```

Related Operations

- elasticache-create-cache-cluster (p. 14)

elasticache-describe-cache-parameter-groups

Description

Returns information about all cache parameter groups for an account if no cache parameter group name is supplied, or displays information about a specific named cache parameter group.

Syntax

```
elasticache-describe-cache-parameter-groups CacheParameterGroupName

[--maxrecords value ]

[Common Options]
```

Options

Name	Description	Required
CacheParameterGroupName	Cache parameter group name. This value can also be supplied using the `--cache-parameter-group-name` parameter. Type: String Default: None	No

Output

The command returns the following information:

- **Group Name –** User-supplied cache parameter group name.
- **Parameter Group Family –** Parameter group family to which this group applies.
- **Description –** Description of the cache parameter group.

Examples

Get a Description of All Cache Parameter Groups

This example returns a description of all cache parameter groups for the account.

```
PROMPT> elasticache-describe-cache-parameter-groups


CACHEPARAMETERGROUP  default.memcached1.4    memcached1.4  Default parameter
group for memcached1.4
CACHEPARAMETERGROUP  mycacheparametergroup2  memcached1.4  My second cache
parameter group
```

Related Operations

- elasticache-create-cache-parameter-group (p. 21)
- elasticache-delete-cache-parameter-group (p. 33)
- elasticache-modify-cache-parameter-group (p. 82)

elasticache-describe-cache-parameters

Description

Returns information about parameters that are part of a cache parameter group. You can optionally request only parameters from a specific source.

Syntax

```
elasticache-describe-cache-parameters CacheParameterGroupName

[--maxrecords value ]

[-s (--source) value ]

[Common Options]
```

Options

Name	Description	Required
CacheParameterGroupName	Cache parameter group name. This value can also be supplied using the `--cache-parameter-group-name` parameter. Type: String Default: None	Yes
`-s` *value* `--source` *value*	Specifies which parameter types to return. Type: String Default: None Valid values: `user` | `system` | `engine-default`	No

Output

The command returns the following information:

- **Parameter Name –** The name of the parameter.
- **Parameter Value –** The current value of the parameter.
- **Description –** A short description of how the parameter is used. This column only appears when the *`--show-long`* parameter is specified.
- **Source –** Whether this parameter was set by Amazon ElastiCache (`system`), or is an engine default (`engine`. Valid values: `system` | `engine`
- **Data Type –** The data type of the parameter. Valid values: `integer` | `float` | `string` | `boolean`
- **Allowed Values –** Valid values for the parameter. Possible values are separated by commas, and ranges are specified with dashes. This column only appears when the *`--show-long`* option is specified.
- **Is Modifiable –** Indicates whether a given parameter is modifiable.
- **Minimum Version –** Indicates the earliest engine version to which the parameter can apply.

- **Parameter Name –** The name of the parameter.
- **Cache Node Type –** The cache node type name for which this parameter value applies.
- **Cache Node Type Specific Value –** Value the parameter is currently set to for the associated cache node type.

Examples

Retrieve the Parameters for a Specified Cache Parameter Group

This example retrieves the parameters for the named parameter group, showing column headers on the output.

```
PROMPT> elasticache-describe-cache-parameters mycacheparamgrp --headers

CACHEPARAMETER  backlog_queue_limit            1024     system  integer  false

 1.4.5
CACHEPARAMETER  binding_protocol               auto     system  string   false

 1.4.5
CACHEPARAMETER  cas_disabled                    0        system  boolean  true

 1.4.5
CACHEPARAMETER  chunk_size                      48       system  integer  true

 1.4.5
CACHEPARAMETER  chunk_size_growth_factor        1.25     system  float    true

 1.4.5
CACHEPARAMETER  error_on_memory_exhausted       0        system  boolean  true

 1.4.5
CACHEPARAMETER  large_memory_pages              0        system  boolean  false

 1.4.5
CACHEPARAMETER  lock_down_paged_memory          0        system  boolean  false

 1.4.5
CACHEPARAMETER  max_item_size                   1048576  system  integer  true

 1.4.5
CACHEPARAMETER  max_simultaneous_connections    65000    system  integer  false

 1.4.5
CACHEPARAMETER  maximize_core_file_limit        0        system  boolean  false

 1.4.5
CACHEPARAMETER  memcached_connections_overhead  100      system  integer  true

 1.4.5
CACHEPARAMETER  requests_per_event              20       system  integer  false
```

```
 1.4.5
CACHENODETYPESPECIFICPARAMETER  max_cache_memory  system  integer  false  1.4.5

   CACHENODETYPESPECIFICVALUE  cache.c1.xlarge   6000
   CACHENODETYPESPECIFICVALUE  cache.m1.large    7100
   CACHENODETYPESPECIFICVALUE  cache.m1.medium   3350
   CACHENODETYPESPECIFICVALUE  cache.m1.small    1300
   CACHENODETYPESPECIFICVALUE  cache.m1.xlarge   14600
   CACHENODETYPESPECIFICVALUE  cache.m2.2xlarge  33800
   CACHENODETYPESPECIFICVALUE  cache.m2.4xlarge  68000
   CACHENODETYPESPECIFICVALUE  cache.m2.xlarge   16600
   CACHENODETYPESPECIFICVALUE  cache.m3.2xlarge  29000
   CACHENODETYPESPECIFICVALUE  cache.m3.large    6600
   CACHENODETYPESPECIFICVALUE  cache.m3.medium   3250
   CACHENODETYPESPECIFICVALUE  cache.m3.xlarge   14000
   CACHENODETYPESPECIFICVALUE  cache.r3.2xlarge  60000
   CACHENODETYPESPECIFICVALUE  cache.r3.4xlarge  121000
   CACHENODETYPESPECIFICVALUE  cache.r3.8xlarge  243000
   CACHENODETYPESPECIFICVALUE  cache.r3.large    14200
   CACHENODETYPESPECIFICVALUE  cache.r3.xlarge   29500
CACHENODETYPESPECIFICPARAMETER  num_threads      system  integer  false  1.4.5

   CACHENODETYPESPECIFICVALUE  cache.c1.xlarge   8
   CACHENODETYPESPECIFICVALUE  cache.m1.large    2
   CACHENODETYPESPECIFICVALUE  cache.m1.medium   1
   CACHENODETYPESPECIFICVALUE  cache.m1.small    1
   CACHENODETYPESPECIFICVALUE  cache.m1.xlarge   4
   CACHENODETYPESPECIFICVALUE  cache.m2.2xlarge  4
   CACHENODETYPESPECIFICVALUE  cache.m2.4xlarge  8
   CACHENODETYPESPECIFICVALUE  cache.m2.xlarge   2
   CACHENODETYPESPECIFICVALUE  cache.m3.2xlarge  8
   CACHENODETYPESPECIFICVALUE  cache.m3.large    2
   CACHENODETYPESPECIFICVALUE  cache.m3.medium   1
   CACHENODETYPESPECIFICVALUE  cache.m3.xlarge   4
   CACHENODETYPESPECIFICVALUE  cache.r3.2xlarge  8
   CACHENODETYPESPECIFICVALUE  cache.r3.4xlarge  16
   CACHENODETYPESPECIFICVALUE  cache.r3.8xlarge  32
   CACHENODETYPESPECIFICVALUE  cache.r3.large    2
   CACHENODETYPESPECIFICVALUE  cache.r3.xlarge   4
```

Related Operations

- elasticache-create-cache-parameter-group (p. 21)
- elasticache-describe-cache-parameter-groups (p. 47)
- elasticache-modify-cache-parameter-group (p. 82)
- elasticache-delete-cache-parameter-group (p. 33)

elasticache-describe-cache-security-groups

Description

Returns information about all cache security groups for an account if no cache security group name is supplied, or displays information about a specific named cache security group.

Syntax

```
elasticache-describe-cache-security-groups [CacheSecurityGroupName ]

[Common Options]
```

Options

Name	Description	Required
CacheSecurityGroupName	Cache security group name. This value can also be supplied using the `--cache-security-group-name` parameter. Type: String Default: None	No

Output

The command returns the following information:

- **Name –** Security group name
- **Description –** Description of the cache security group
- **EC2 Group Name –** EC2 Security Group name
- **EC2 Owner Id –** EC2 Security Group owner
- **Status –** Status of security group authorization. Valid values: `adding` | `active` | `removing`

Examples

Get a Description of All Security Groups

This example returns a description of all cache security groups for the account, with column headers.

```
PROMPT> elasticache-describe-cache-security-groups -H


SECGROUP  Name     Description
SECGROUP  Default  Default
    EC2-SECGROUP  EC2 Group Name  EC2 Owner Id  Status
    EC2-SECGROUP  mytestgroup     123456789012  authorized
```

```
SECGROUP  mycachesecuritygroup  My Security Group
```

Related Operations

- elasticache-create-cache-security-group (p. 23)
- elasticache-delete-cache-security-group (p. 34)
- elasticache-authorize-cache-security-group-ingress (p. 74)
- elasticache-revoke-cache-security-group-ingress (p. 98)

elasticache-describe-cache-subnet-groups

Description

Describes one or more cache subnet groups.

Syntax

```
elasticache-describe-cache-subnet-groups [CacheSubnetGroupName]

--cache-subnet-group-name value

[Common Options]
```

Options

Name	Description	Required
`--cache-subnet-group-name` *value*	The name of an existing cache subnet group. You can specify the subnet group as the first argument to the command, or use the parameter `--cache-subnet-group-name`. If this parameter is omitted, all subnet groups are described. Type: String Default: None Constraints: Maximum length is 255 characters. Example: `mysubnetgroup`	No

Output

The command returns the following information:

- **Name –** Subnet group name.
- **Description –** Subnet group description.
- **VPC ID –** Virtual Private Cloud identifier of the subnet group.
- **Subnet Identifier –** Subnet group identifier.
- **Subnet Availability Zone –** Availability Zone for the subnet.

Examples

Describing Cache Subnet Groups

This example describes all of the cache subnet groups.

```
PROMPT> elasticache-describe-cache-subnet-groups mycachesubnetgroup
```

```
SUBNETGROUP  mycachesubnetgroup  Created by John Smith  vpc-8c596de7
      SUBNET  subnet-85596dee  us-east-1d
```

Related Operations

- elasticache-create-cache-subnet-group (p. 25)
- elasticache-delete-cache-subnet-group (p. 35)
- elasticache-modify-cache-subnet-group (p. 84)

elasticache-describe-engine-default-parameters

Description

Returns a description of the default parameters used for a specified cache engine.

Syntax

```
elasticache-describe-engine-default-parameters CacheParameterGroupFamily

[Common Options]
```

Options

Name	Description	Required
CacheParameterGroupFamily	Contains the name of the cache parameter group family for which to list defaults. This value can also be set using the *--cache-parameter-group-family* named parameter. Type: String Default: None	Yes

Output

The command returns the following information:

- **Parameter Name –** The name of the parameter.
- **Parameter Value –** The current value of the parameter.
- **Description –** A short description of how the parameter is used. This column only appears when the *--show-long* parameter is specified.
- **Source –** Whether this parameter was set by Amazon ElastiCache (`system`), or is an engine default (`engine`. Valid values: `system` | `engine`
- **Data Type –** The data type of the parameter. Valid values: `integer` | `float` | `string` | `boolean`
- **Allowed Values –** Valid values for the parameter. Possible values are separated by commas, and ranges are specified with dashes. This column only appears when the *--show-long* option is specified.
- **Is Modifiable –** Indicates whether a given parameter is modifiable.
- **Minimum Version –** Indicates the earliest engine version to which the parameter can apply.
- **Parameter Name –** The name of the parameter.
- **Cache Node Type –** The cache node type name for which this parameter value applies.
- **Cache Node Type Specific Value –** Value the parameter is currently set to for the associated cache node type.

Examples

Display Parameter Values for the Default CacheParameterGroup

This example shows how to display the default CacheParameterGroup parameter values for a specific cache parameter group family and return the results displaying table headers.

```
PROMPT> elasticache-describe-engine-default-parameters memcached1.4 --headers
CACHEPARAMETER  Parameter Name                  Parameter Value  Source  Data
Type  Is Modifiable  Minimum Version
CACHEPARAMETER  backlog_queue_limit            1024             system  integer
    false          1.4.5
CACHEPARAMETER  binding_protocol               auto             system  string
     false          1.4.5
CACHEPARAMETER  cas_disabled                   0                system  boolean
    true           1.4.5
CACHEPARAMETER  chunk_size                     48               system  integer
    true           1.4.5
CACHEPARAMETER  chunk_size_growth_factor        1.25             system  float
      true           1.4.5
CACHEPARAMETER  error_on_memory_exhausted      0                system  boolean
    true           1.4.5
CACHEPARAMETER  large_memory_pages             0                system  boolean
    false          1.4.5
CACHEPARAMETER  lock_down_paged_memory         0                system  boolean
    false          1.4.5
CACHEPARAMETER  max_item_size                  1048576          system  integer
    true           1.4.5
CACHEPARAMETER  max_simultaneous_connections    65000           system  integer
    false          1.4.5
CACHEPARAMETER  maximize_core_file_limit       0                system  boolean
    false          1.4.5
CACHEPARAMETER  memcached_connections_overhead  100             system  integer
    true           1.4.5
CACHEPARAMETER  requests_per_event             20               system  integer
    false          1.4.5
CACHENODETYPESPECIFICPARAMETER  Parameter Name    Source  Data Type  Is Modifi
able  Minimum Version
CACHENODETYPESPECIFICPARAMETER  max_cache_memory  system  integer    false
1.4.5
    CACHENODETYPESPECIFICVALUE  Cache Node Type   Cache Node Type Specific Value

    CACHENODETYPESPECIFICVALUE  cache.c1.xlarge   6000
    CACHENODETYPESPECIFICVALUE  cache.m1.large    7100
    CACHENODETYPESPECIFICVALUE  cache.m1.small    1300
    CACHENODETYPESPECIFICVALUE  cache.m1.xlarge   14600
    CACHENODETYPESPECIFICVALUE  cache.m2.2xlarge  33800
    CACHENODETYPESPECIFICVALUE  cache.m2.4xlarge  68000
    CACHENODETYPESPECIFICVALUE  cache.m2.xlarge   16600
CACHENODETYPESPECIFICPARAMETER  num_threads       system  integer    false
1.4.5
    CACHENODETYPESPECIFICVALUE  Cache Node Type   Cache Node Type Specific Value

    CACHENODETYPESPECIFICVALUE  cache.c1.xlarge   8
```

```
CACHENODETYPESPECIFICVALUE  cache.m1.large    2
CACHENODETYPESPECIFICVALUE  cache.m1.small    1
CACHENODETYPESPECIFICVALUE  cache.m1.xlarge   4
CACHENODETYPESPECIFICVALUE  cache.m2.2xlarge  4
CACHENODETYPESPECIFICVALUE  cache.m2.4xlarge  8
CACHENODETYPESPECIFICVALUE  cache.m2.xlarge   2
```

Related Operations

- elasticache-describe-cache-parameters (p. 49)
- elasticache-modify-cache-parameter-group (p. 82)
- elasticache-reset-cache-parameter-group (p. 96)

elasticache-describe-events

Description

Returns information about events related to your cache clusters, cache security groups or cache parameter groups.

Syntax

```
elasticache-describe-events

[-d (--duration) value ]

[-st (--start-time) value ]

[-et (--end-time) value ]

[-i (--source-identifier) value ]

[-s (--source-type) value ]

[Common Options]
```

Options

Name	Description	Required
`-d` *value* `--duration` *value*	The number of minutes for which to retrieve events. Type: Integer Default: `60` Example: Retrieve the last 90 minutes worth of events: `--duration 90`	No
`-st` *value* `--start-time` *value*	The beginning of the time interval to retrieve events, specified in ISO8601 format. For more information about ISO 8601, go to the ISO8601 format Wikipedia page. Type: Date Default: none Example: `--start-time 2013-06-31T10:00:00`	No

Name	Description	Required
`-et` *value* `--end-time` *value*	The end of the time interval to retrieve events, specified in ISO8601 format. For more information about ISO 8601, go to the ISO8601 format Wikipedia page. Type: Date Default: none Example: `--start-time 2013-06-31T12:00:00`	No
`-s` *value* `--source-type` *value*	Specifies the event source for which to retrieve events. Type: String Valid values: `cache-cluster`, `cache-security-group`, `cache-parameter-group` Example: `--source-type cache-cluster`	No
`-i` *value* `--source-identifier` *value*	Used with the `--source-type` parameter to restrict returned events to a specific named source. Type: String Example: `--source-type cache-cluster --source-identifier myCacheCluster`	No

Output

The command returns the following information:

- **Source Type –** Type of event source
- **Date –** Cache event date/time, in UTC
- **Source Id –** Identifier of the event source
- **Message –** Event description

Examples

Describe All Events

This example returns all events with column headers.

```
PROMPT> elasticache-describe-events --headers

Source Type           Date                       Source Id    Message
cache-security-group  2013-07-26T23:38:31.164Z  default      Applied change to
 security group
cache-cluster         2013-07-26T23:45:20.937Z  mycachecluster01  Cache cluster
 created
```

```
cache-cluster         2013-07-26T23:45:20.944Z  mycachecluster01  Added cache
nodes 0013
cache-cluster         2013-07-26T23:45:20.946Z  mycachecluster01  Added cache
nodes 0014
cache-cluster         2013-07-26T23:45:20.949Z  mycachecluster01  Added cache
nodes 0015
cache-cluster        2013-07-26T23:55:19.073Z  mycachecluster03  Cache cluster
 created
cache-cluster         2013-07-26T23:55:19.079Z  mycachecluster03  Added cache
nodes 0019
cache-cluster         2013-07-26T23:55:19.081Z  mycachecluster03  Added cache
nodes 0020
cache-cluster         2013-07-26T23:55:19.083Z  mycachecluster03  Added cache
nodes 0021
cache-cluster         2013-07-27T00:18:32.202Z  mycachecluster03  Cache node
0020 shutdown
cache-cluster         2013-07-27T00:18:32.219Z  mycachecluster03  Cache node
0021 shutdown
cache-cluster         2013-07-27T00:18:32.391Z  mycachecluster03  Cache node
0019 shutdown
cache-cluster        2013-07-27T00:20:48.842Z  mycachecluster03  Removed cache
 nodes0019
cache-cluster        2013-07-27T00:20:48.845Z  mycachecluster03  Removed cache
 nodes0020
cache-cluster        2013-07-27T00:20:48.848Z  mycachecluster03  Removed cache
 nodes0021
cache-cluster        2013-07-27T00:20:48.856Z  mycachecluster03  Cache cluster
 deleted
```

Describe Events for a Specified Cache Cluster

This example returns only events for a specific cache cluster.

```
PROMPT> elasticache-describe-events --source-type cache-cluster --source-iden
tifier test001

Source Type            Date                     Source Id          Message
cache-cluster        2013-07-27 00:37:59  test001        Cache cluster test001
 created
cache-cluster        2013-07-27 01:09:58  test001        Cache cluster test001
 deleted
```

Describe Events for a Specified Time Interval

This example returns only events for a specific time interval.

```
PROMPT> elasticache-describe-events --start-time 2013-07-02T00:00:00-08:00 --
end-time 2013-07-02T23:59:59-08:00
```

Related Operations

- elasticache-describe-cache-clusters (p. 41)
- elasticache-describe-cache-parameter-groups (p. 47)
- elasticache-describe-cache-security-groups (p. 52)

elasticache-describe-replication-groups

Description

Returns information about the replication groups associated with your AWS account. By default, the command returns information about all of your replication groups. If you specify a replication group ID, this command will return information only about that replication group.

Syntax

```
elasticache-describe-replication-groups ReplicationGroupId

--replication-group-id value

[Common Options]
```

Options

Name	Description	Required
`ReplicationGroupId` `--replication-group-id` *`value`*	The name of a replication group whose information will be returned. Type: String. Not case-sensitive. Default: All replication groups associated with your AWS account. Constraints: Must be the name of an existing replication group. Example: `my-repgroup`	Yes

Output

The command returns the following information:

- **Replication Group Id –** The name of the replication group.
- **Replication Group Description –** A description of the replication group.
- **Replication Group Status –** The current status of the replication group.

  Snapshotting Cluster Id – The cache cluster from which replication group snapshots will be taken.
- **Cluster Id –** A list of identifiers of all cache clusters within the replication group.
- **Node Group Id –** The name of the node group that is associated with the replication group.
- **Node Group Address –** The IP address used to connect to the primary cache node for the node group.
- **Node Group Port –** The port number used to connect to the primary cache node for the node group.
- **Node Group Status –** The current status of the node group.
- **Node Group Member CacheClusterId –** The name of the cache cluster associated with the cache cluster node
- **Node Group Member CacheNodeId –** The name of an individual cache cluster node in the node group.

- **Node Group Member Address –** The IP address used to connect to an individual cache cluster node in the node group.
- **Node Group Member Port –** The port number used to connect to an individual cache cluster node in the node group.
- **Node Group Member PreferredAZ –** The preferred Availability Zone of the cache cluster node.
- **Node Group Member CurrentRole –** The current role of the cache cluster node.

Examples

Describing a Replication Group

This example describes a replication group named *prod-repgroup*.

```
PROMPT> elasticache-describe-replication-groups prod-repgroup


REPLICATIONGROUP prod-repgroup      Production replication group
available
      CLUSTERID  prod-primary
      CLUSTERID  prod-replica-1
      CLUSTERID  prod-replica-2
      NODEGROUP  0001  prod-repgroup.q68zgw.ng.0001.use1.cache.amazonaws.com
6379  available
            NODEGROUPMEMBER  prod-primary   0001  prod-
primary.q68zgw.0001.use1.cache.amazonaws.com     6379  us-east-1a  primary
            NODEGROUPMEMBER  prod-replica-1  0001  prod-replica-
1.q68zgw.0001.use1.cache.amazonaws.com  6379  us-east-1b  replica
            NODEGROUPMEMBER  prod-replica-2  0001  prod-replica-
2.q68zgw.0001.use1.cache.amazonaws.com  6379  us-east-1b  replica
```

Related Operations

- elasticache-create-replication-group (p. 27)
- elasticache-modify-replication-group (p. 86)
- elasticache-delete-replication-group (p. 37)

elasticache-describe-reserved-cache-nodes

Description

Returns information about reserved Cache Nodes for this account, or about a specified reserved Cache Node.

Syntax

```
elasticache-describe-reserved-cache-nodes  ReservedCacheNodeID

[-c (--cache-node-class) value ]

[-d (--duration) value ]

[-p (--product-description) value ]

[-t (--offering-type) value ]

[-o (--reserved-cache-nodes-offering-id) value ]

[Common Options]
```

Options

Name	Description	Required
`ReservedCacheNodeID` `--reserved-cache-node-id` *value*	Reserved Cache Node identifier. Provide this parameter to return only information about a specific reserved Cache Node. You can also set this value using the `--reserved-cache-node-id` parameter. Type: String Default: None Example: `--reserved-cache-node-id myreservecachenode`	No
`-c` `--cache-node-class` *value*	Cache Node class filter value. Specify this parameter to show only reservations matching the specified Cache Nodes class. Type: String Default: None Example: `-c cache.m1.xlarge`	No

Name	Description	Required
`-d` `--duration` *value*	Duration filter value, specified in years. Specify this parameter to show only reservations for this duration. Type: String Default: None Example: `-d 3y`	No
`-p` `--product-description` *value*	Product description filter value. Specify this parameter to show only reservations matching the specified product description. Type: String Default: None Example: `-p mydescription`	No
`-o` `--reserved-cache-nodes-offering-id` *value*	Offering identifier filter value. Specify this parameter to show only reservations matching the specified offering identifier. Type: String Default: None Example: `--reserved-cache-nodes-offering-id SampleReservationID`	No
`-t` `--offering-type` *value*	Offering type filter value. Specify this parameter to show only available offerings matching the specified offering type. Type: String Default: None Example: `-t "Light Utilization"`	No

Output

The command returns the following information:

- **ReservationId –** the unique identifier for the reservation.
- **OfferingID –** the offering identifier (only appears when the *`--show-long`* parameter is specified).
- **Class –** the Cache Node class for the reservation.
- **Start Time –** the time the reservation started
- **Duration –** the duration of the reservation in years
- **Fixed Price –** the fixed price charged for each Cache Node in this reservation (only appears when the *`--show-long`* parameter is specified).
- **Usage Price –** the hourly price to run each reserved Cache Node (only appears when the *`--show-long`* parameter is specified).

- **Count –** the number of cache nodes reserved.
- **Status –** the status of the reservation.
- **Description –** the description of the reserved cache node.

Examples

Describing Reserved Cache Nodes

This example returns descriptions of all of your cache node reservations

```
PROMPT> elasticache-describe-reserved-cache-nodes
```

Describing a Specific Reserved Cache Node

This example returns information about a specific reserved Cache Node.

```
PROMPT> elasticache-describe-reserved-cache-nodes reservation1 --show-long --
header
```

Related Operations

- elasticache-describe-reserved-cache-nodes-offerings (p. 68)
- elasticache-purchase-reserved-cache-nodes-offering (p. 91)

elasticache-describe-reserved-cache-nodes-offerings

Description

Returns information about available reserved Cache Node offerings.

Syntax

```
elasticache-describe-reserved-cache-nodes-offerings ReservedCacheNodesOfferingId
[--reserved-cache-nodes-offering-id value ]
[-c (--cache-node-class) value ]
[-d (--duration) value ]
[-p (--product-description) value ]
[-t (--offering-type) value ]
[Common Options]
```

Options

Name	Description	Required
`ReservedCacheNodesOfferingId` *value*	Offering identifier filter value. Specify this parameter to show only the available offering that matches the specified Reserved Cache Nodes Offering. This value can also be supplied using the *`--reserved-cache-nodes-offering-id`* parameter. Type: String Default: None Example: `--reserved-cache-nodes-offering-id 438012d3-4052-4cc7-b2e3-8d3372e0e706`	No
`-c` `--cache-node-class` *value*	Cache Node class filter value. Specify this parameter to show only the available offerings matching specified cache node class. Type: String Default: None Example: `-c cache.m1.xlarge`	No

Name	Description	Required
`-d` `--duration` *value*	Duration filter value, specified in years. Specify this parameter to show only the available offerings for this duration. Type: String Default: None Example: `-d 3`	No
`-p` `--product-description` *value*	Product description filter value. Specify this parameter to show only available offerings matching the specified product description. Type: Boolean Default: None	No
`-t` `--offering-type` *value*	Offering type filter value. Specify this parameter to show only available offerings matching the specified offering type. Type: String Default: None Example: `-t "Light Utilization"`	No

Output

The command returns the following information:

- **OfferingId –** the unique identifier for the offering.
- **Class –** the Cache Node class for the offering.
- **Duration –** the length of the duration in years
- **Fixed Price –** the fixed price charged to reserve each Cache Node.
- **Usage Price –** the hourly price to run each reserved Cache Node.
- **Description –** the description of the reserved cache node.

Examples

Describing Reserved Cache Nodes Offerings

This example returns descriptions of all reserved cache node offerings.

```
PROMPT> elasticache-describe-reserved-cache-nodes-offerings
```

Describing a Specific Reserved Cache Node Offering

This example returns information about a specific reserved Cache Node offering.

```
PROMPT> elasticache-describe-reserved-cache-nodes-offerings offering-id -
-headers
```

Related Operations

- elasticache-describe-reserved-cache-nodes (p. 65)
- elasticache-purchase-reserved-cache-nodes-offering (p. 91)

elasticache-describe-snapshots

Description

Returns information about cache cluster snapshots. By default, this command lists all of your snapshots; it can optionally describe a single snapshot, or just the snapshots associated with a particular cache cluster.

Note
The `elasticache-describe-snapshots` command can list up to 50 snapshots. If you have more than 50 snapshots, use the `--marker` parameter to page through the results. For more information on `--marker`, see Common Options for API Tools (p. 7).

Syntax

```
elasticache-describe-snapshots

[SnapshotName ]

[--cache-cluster-id value ]

[--marker value ]

[--max-records value ]

[--snapshot-source value ]

[Common Options]
```

Options

Name	Description	Required
`SnapshotName` `--snapshot-name` *value*	The name of a snapshot to describe. Type: String Default: None Example: `--snapshot-name mysnapshot`	No
`--cache-cluster-id` *value*	Displays all of the snapshots associated with a particular cache cluster. Type: String Default: None Example: `--cache-cluster-id mycachecluster01`	No
`--snapshot-source` *value*	If set to `system`, the output shows snapshots that were automatically created by ElastiCache. If set to `user` the output shows snapshots that were manually created. If omitted, the output shows both automatically and manually created snapshots.	No

Output

For each snapshot the command returns the following information:

- **SnapshotName –** The name of the snapshot.
- **CacheClusterId –** The identifier for the source cache cluster.
- **Status –** The current status of the snapshot.
- **Source –** Whether this is an automatic or manual snapshot. Since this command creates manual snapshots, Source will be *manual*.
- **CacheNodeType –** The compute and memory capacity of the source cache cluster node.
- **Engine –** The name of the cache engine used in the source cache cluster.
- **EngineVersion –** The name of the cache engine software running on the source cache cluster.
- **NumCacheNodes –** The number of nodes in the source cache cluster.
- **PreferredAvailabilityZone –** The preferred Availabilty Zone of the source cache cluster
- **CacheClusterCreateTime –** The date and time when the source cache cluster was created.
- **PreferredMaintenanceWindow –** The window during which patching and cluster modifications are performed on the source cache cluster.
- **Port –** The port used to connect to the source cache cluster.
- **CacheParameterGroupName –** The name of the parameter group used with the source cache cluster.
- **AutoMinorVersionUpgrade –** Indicates whether minor version upgrades are automatically applied to the source cache cluster during its maintenance window.
- **SnapshotRetentionLimit –** The number of days that this snapshot will be retained before being automatically deleted. Since this command creates manual snapshots, SnapshotRetentionLimit will be *0* (the snapshot will not be automatically deleted).
- **SnapshotWindow –** The daily time range during which ElastiCache takes daily snapshots of the source cache cluster.

In addition, for each node in the source cache cluster, the following information is returned:

- **Cache Node Id –** The ID of the node within the source cache cluster. A node ID is a numeric identifier (0001, 0002, etc.).
- **Cache Node Create Time –** The date and time when the node was created in the source cache cluster.
- **Snapshot Create Time –** The date and time at which the snapshot for this node was created.
- **Cache Size –** The size of the cache on the source cache node.

Examples

Describing Snapshots

This example describes all of the snapshots for this AWS account.

```
PROMPT> elasticache-describe-snapshots

SNAPSHOT  mysnapshot01     mycachecluster01  available  manual  cache.m1.small
  redis  2.8.6  1  us-east-1e  2014-03-24T20:44:54.989Z  sat:03:00-sat:04:00
6379  default.redis2.8  true  0  06:00-07:00
           NODESNAPSHOT  0001  2014-03-24T20:44:54.989Z  2014-03-24T21:18:04Z
  3 MB
```

```
SNAPSHOT  mysnapshot01copy  mycachecluster01  available  manual  cache.m1.small
  redis  2.8.6  1  us-east-1e  2014-03-24T20:44:54.989Z  sat:03:00-sat:04:00
6379  default.redis2.8  true  0  06:00-07:00
            NODESNAPSHOT  0001  2014-03-24T20:44:54.989Z  2014-03-24T21:18:04Z
  3 MB
```

Related Operations

- elasticache-copy-snapshot (p. 11)
- elasticache-delete-snapshot (p. 29)
- elasticache-delete-snapshot (p. 39)

elasticache-authorize-cache-security-group-ingress

Description

Authorizes network ingress for an Amazon EC2 security group.

Syntax

```
elasticache-authorize-cache-security-group-ingress CacheSecurityGroupName
-g (--ec2-security-group-name) value
-o (--ec2-security-group-owner-id) value
[Common Options]
```

Options

Name	Description	Required
`CacheSecurityGroupName` `--cache-security-group-name` *value*	The name of the cache security group. This can also be passed as a named parameter using `--cache-security-group-name` *value* Type: String Default: None Example: `--cache-security-group-name mycachesecuritygroup`	Yes
`-g` `--ec2-security-group-name` *value*	The name of the EC2 security group. Type: String Default: None Constraints: Must be an existing EC2 security group. Example: `-g myec2securitygroup` **Important** Authorizing an EC2 security group only grants access to your cache clusters from the EC2 instances belonging to the EC2 security group.	Yes
`-o` `--ec2-security-group-owner-id` *value*	The AWS account number of the owner of the EC2 security group. Type: String Default: None Example: `-o 123456789012`	Yes

Output

The command returns the following information:

- **Name –** Security group name.
- **Description –** Security group description.
- **EC2 Group Name –** The name of the EC2 security group.
- **EC2 Owner Id –** The owner of the EC2 security group.
- **Status –** Status of the authorization.

Examples

Authorizing Access to an EC2 Security Group

This example authorizes access to a named Amazon EC2 security group.

```
PROMPT> elasticache-authorize-cache-security-group-ingress Default --ec2-secur
ity-group-name mainServerGrp --ec2-security-group-owner-id 123445677890

SECGROUP  default  default
      EC2-SECGROUP  mainServerGrp  123445677890  authorizing
```

Related Operations

- elasticache-revoke-cache-security-group-ingress (p. 98)

elasticache-modify-cache-cluster

Description

Changes the settings of an existing Cache Cluster.

Syntax

```
elasticache-modify-cache-cluster CacheClusterId
[-s (--security-group-ids) value[,value...] ]
[-sg (--cache-security-group-names) value[,value...] ]
[--apply-immediately ]
[-au (--auto-minor-version-upgrade) ]
[-ts (--notification-topic-status) value ]
[-n (--num-cache-nodes) value ]
[-pg (--cache-parameter-group-name) value ]
[-r (--nodes-to-remove)value[,value...] ]
[-t (--notification-topic-arn) value ]
[-v (--engine-version) value ]
[-w (--preferred-maintenance-window value ]
[-sr (--snapshot-retention-limit value ]
[-sw (--snapshot-window value ]
[Common Options]
```

Options

Name	Description	Required
CacheClusterId	Cache cluster identifier. This is the unique key that identifies a cache cluster. Stored as a lowercase string. Type: String Default: None Constraints: Must contain 1 to 20 alphanumeric characters or hyphens. First character must be a letter. Cannot end with a hyphen or contain two consecutive hyphens. Example: `mycluster`	Yes

Name	Description	Required
`-s` *value[,value...]* `--security-group-ids` *value[,value...]*	The IDs of Amazon Virtual Private Cloud security groups to associate with the cache cluster. This parameter can be used only with clusters that are created in an Amazon Virtual Private Cloud (VPC). Type: String[] Example: `--security-group-ids mysecuritygroup1,mysecuritygroup2`	No
`-sg` *value[,value...]* `--cache-security-group-names` *value[,value...]*	A list of one or more cache security groups to associate with this cache cluster. This parameter can be used only with clusters that are created outside an Amazon Virtual Private Cloud (VPC). Type: String[] Example: `--cache-security-group-names mycachesg`	No
`--apply-immediately`	If this option is included, the cache modifications will be applied immediately. If this option is omitted, the modifications will be applied during the preferred maintenance window. Type: Boolean Default: `False` Valid values: `True` | `False`	No
`-au` *value* `--auto-minor-version-upgrade` *value*	Indicates whether minor version upgrades will automatically be applied to the cache cluster during the maintenance window. Type: String	No
`-pg` *value* `--cache-parameter-group-name` *value*	The cache parameter group to associate with the cache cluster. Type: String Default: The default cache parameter group for the specified engine. Example: `-pg mycacheparametergroup1`	No

Name	Description	Required
`-n` *value* `--num-cache-nodes` *value*	The number of nodes for this cache cluster. If this value is less than the number of nodes for the current cache cluster, you must provide a list of cache nodes to remove using the *-r* parameter. For cache clusters running Redis, this value must be 1. Type: String	No
`-r` *value* `--nodes-to-remove` *value*	Comma-delimited list of node identifiers to remove from this cache cluster. This parameter is only required if the *-n* parameter is specified with a number less than the current number of nodes for this cache cluster. Type: String	No
`-t` *value* `--notification-topic-arn` *value*	The Amazon Simple Notification Service (SNS) topic used to publish notifications related to this cache cluster. Type: String	No
`-ts` *value* `--notification-topic-status` *value*	The status of the Amazon Simple Notification Service (SNS) topic for this cache cluster. Notifications are sent only if this is active. Type: Integer Valid values: `Active` | `Inactive`	No
`-v` *value* `--engine-version` *value*	The version of the cache engine to use for this cache cluster. Type: String	No
`-w` *value* `--preferred-maintenance-window` *value*	Specifies the weekly time range during which maintenance on the cache cluster is performed. It is specified as a range in the format ddd:hh24:mi-ddd:hh24:mi (24H Clock UTC). The minimum maintenance window is a 60 minute period. Type: String Example: `--preferred-maintenance-window sun:22:00-sun:23:00`	No
`-sr` *value* `--snapshot-retention-limit` *value*	The number of days for which ElastiCache will retain automatic cache cluster snapshots before deleting them. For example, if you set`SnapshotRetentionLimit` to 5, then a snapshot that was taken today will be retained for 5 days before being deleted. Type: Integer	No

Name	Description	Required
`-sw` *value* `--snapshot-window` *value*	The daily time range (in UTC) during which ElastiCache will begin taking a daily snapshot of your cache cluster. Type: String Example: `--snapshot-window 18:00-19:00`	No

Output

The command returns the following information:

- **CacheClusterId –** The user-supplied cache cluster identifier; this is the unique key that identifies a cache cluster
- **Client Download Landing Page –** A URL from which you can download the Amazon ElastiCache Cluster Client library.
- **Created –** The data and time the cache cluster was created, in 24-hour UTC format
- **Type –** The compute and memory capacity of the cache cluster
- **Engine –** The name of the cache engine to be used for this cache cluster
- **Status –** The current status of the cache cluster. Valid values: `available` | `creating` | `deleted` | `deleting` | `modifying`
- **NumberOfNodes –** The number of cache nodes within this cluster
- **PreferredAZ –** The preferred Availabilty Zone of this cache cluster
- **Snapshot Retention Limit –** The number of days for which automatic snapshots will be retained
- **Snapshot Window –** The daily time range during which snapshots will be taken
- **Version –** The cache engine's version number
- **CacheSecurity Group Name –** The name of the security group applied to the cache cluster
- **Cache Security Group Status –** The status of the security group
- **Cache Parameter Group Name –** The name of the parameter group applied to the cache cluster
- **Cache Parameter Group Status –** The parameter group status for this node. If this node needs to be rebooted to apply parameter group changes, the status will be `pending-reboot`. If this node is being rebooted, the status will be `applying`. Otherwise, the status will be `in-sync`.

Examples

Associate a Security Group with a Cache Cluster

This example shows how to associate a cache security group with this cache cluster.

```
PROMPT> elasticache-modify-cache-cluster myCacheCluster --cache-security-group-
names mycoworkers
```

Increase the Number of Cache Nodes

This example shows how to increase the number of cache nodes from three to five.

```
PROMPT> elasticache-modify-cache-cluster myCacheCluster --num-cache-nodes 5
```

Decrease the Number of Cache Nodes

This example shows how to decrease the number of cache nodes from five to three.

```
PROMPT> elasticache-modify-cache-cluster myCacheCluster --num-cache-nodes 3 --
nodes-to-remove 0001,0002
```

Modify the Amazon Simple Notification Service (SNS) Topic

This example shows how to modify the Amazon SNS topic.

Note
The AWS customer account of the SNS topic must be the same as the account used to create the cache cluster.

```
PROMPT> elasticache-modify-cache-cluster myCacheCluster --notification-topic-
arn arn:aws:sns:us-east-1:1234567890:TestSNS
```

Change the Amazon SNS Notification Status

This example shows how to change the status of the Amazon SNS notification topic associated with the cache cluster from active to inactive.

Note
This example will cause an error if there is no Amazon SNS topic associate with this cache cluster.

```
PROMPT> elasticache-modify-cache-cluster myCacheCluster --notification-topic-
status inactive
```

Change the Auto Minor Upgrade Preference

This example shows how to change the auto minor upgrade preference for a cache cluster.

```
PROMPT> elasticache-modify-cache-cluster mycachecluster --auto-minor-version-
upgrade true
```

Related Operations

- elasticache-create-cache-cluster (p. 14)
- elasticache-delete-cache-cluster (p. 31)
- elasticache-describe-cache-clusters (p. 41)

elasticache-modify-cache-parameter-group

Description

Updates the parameters in a cache parameter group. You can update up to 20 values per call.

Syntax

```
elasticache-modify-cache-parameter-group CacheParameterGroupName
-p (--parameter-name-values) "name=value, value=value"
[-p (--parameter-name-values) "name=value, value=value" ...]]
[Common Options]
```

Options

Name	Description	Required
CacheParameterGroupName	Cache parameter group identifier. Stored as a lowercase string. This value can also be passed using the `--cache-parameter-group-name` named parameter. Constraints: Must be the name of an existing cache parameter group.	Yes
`-p` `--parameter-name-values` *"name=value, value=value"*	A string containing a series of parameter names and values. The first --parameter-name-values argument is required; subsequent arguments are optional. A maximum of 20 parameters may be updated in a single call to the `elasticache-modify-parameter-group` command.	Yes

Output

The command returns the following information:

- **Group Name –** The name of the parameter group that was modified.

Examples

Modify Parameters in a Parameter Group

This example shows how to modify a group of parameters in a parameter group.

```
PROMPT> elasticache-modify-cache-parameter-group mycacheparamgrp --parameter-
name-values "name=chunk_size, value=100" --parameter-name-values
"name=cas_disabled, value=1"


CACHEPARAMETERGROUP  mycacheparamgrp
```

Related Operations

- elasticache-create-cache-parameter-group (p. 21)
- elasticache-delete-cache-parameter-group (p. 33)
- elasticache-describe-cache-parameter-groups (p. 47)

elasticache-modify-cache-subnet-group

Description

Modifies a cache subnet group.

Syntax

```
elasticache-modify-cache-subnet-group CacheSubnetGroupName

--cache-subnet-group-name value

-d (--description) value

-s (--subnet-ID-list) "value,value,value,..."

[Common Options]
```

Options

Name	Description	Required
`CacheSubnetGroupName` `--cache-subnet-group-name` *`value`*	The name of an existing cache subnet group. You can specify the subnet group as the first argument to the command, or use the parameter `--cache-subnet-group-name`. Type: String Default: None Constraints: Maximum length is 255 characters. Example: `mysubnetgroup`	Yes
`-d` `-description` *`value`*	A description for the subnet group. Type: String Default: None Constraints: Maximum length is 255 characters. Example: `mysubnetgroup`	No
`-s` `--subnet-ID-list` *`value1,value2,value3,...`*	Subnet IDs to place into the subnet group. All input subnet IDs must be in same VPC. Type: String Default: None Constraints: Maximum length is 255 characters. Example: `-s "subnet-e0225b8b"`	No

Output

The command returns the following information:

- **Name –** Subnet group name.
- **Description –** Subnet group description.
- **VPC ID –** Virtual Private Cloud identifier of the subnet group.
- **Subnet Identifier –** Subnet group identifier.
- **Subnet Availability Zone –** Availability Zone for the subnet.

Examples

Modifying a Cache Subnet Group

This example shows how to modify a cache subnet group description.

```
PROMPT> elasticache-modify-cache-subnet-group mycachesubnetgroup -d "This is a
 new description"

SUBNETGROUP  mycachesubnetgroup  This is a new description  vpc-8c596de7
      SUBNET  subnet-85596dee  us-east-1d
```

Related Operations

- elasticache-create-cache-subnet-group (p. 25)
- elasticache-delete-cache-subnet-group (p. 35)
- elasticache-describe-cache-subnet-groups (p. 54)

elasticache-modify-replication-group

Description

Changes the settings of an existing replication group and its member cache clusters. You can include any combination of optional parameters when using this command.

Syntax

```
elasticache-modify-replication-group ReplicationGroupId

--apply-immediately

-au (--auto-minor-version-upgrade) value

-d (--description) value

-m (--description) value

-pg (--description) value

-s (--security-group-ids) "value,value,value,..."

-sg (--cache-security-group-names) value

-t (--notification-topic-arn) value

-ts (--notification-topic-status) value

-v (--engine-version) value

-w (--preferred-maintenance-window) value

-sc (--snapshotting-cluster-id) value

-sr (--snapshot-retention-limit) value

-sw (--snapshot-window) value

[Common Options]
```

Options

Name	Description	Required
`ReplicationGroupId` `--replication-group-id` *value*	The name of the replication group to be modified. Type: String. Not case-sensitive. Default: None Constraints: Must be the name of an existing replication group. Example: `my-repgroup`	Yes

Name	Description	Required
`--apply-immediately`	If you specify this option, the modifications will be applied immediately; otherwise, the modifications will be applied during the next scheduled maintenance window.	No
`-au` `--auto-minor-version-upgrade` *`value`*	If true, minor version upgrades will automatically be applied to the cache clusters in this replication group during the next scheduled maintenance window. Type: String Default: false Constraints: Must be either *true* or *false*. Example: `--auto-minor-version-upgrade=true`	No
`-d` `--description` *`value`*	A revised description of the replication group. Type: String Default: None Constraints: Maximum length is 255 characters. Example: `--description "My replication group"`	No
`-m` `--primary-cluster-id` *`value`*	If this parameter is specified, ElastiCache will promote the specified cache cluster to the primary role. Any other cache clusters in the replication group will be read replicas. Type: String Default: None Constraints: Must be an existing cache cluster that is part of the replication group. Example: `-m newcluster`	No
`-pg` `--cache-parameter-group-name` *`value`*	The name of the cache parameter group to be applied to all of the cache nodes in the replication group. Type: String Default: None Constraints: Must be an existing cache parameter group. Example: `--cache-parameter-group-name my-custom-params`	No

Name	Description	Required
`-s` `--security-group-ids` *`"value,value,value,..."`*	A comma-separated list of security group IDs to associate with the cache clusters in the replication group. Type: String Default: None Example: `--security-group-ids "sg1,sg2,sg3"`	No
`-sg` `--cache-security-group-names` *`"value,value,value,..."`*	A comma-separated list of cache security group names to associate with the cache nodes in the replication group. Type: String Default: None Example: `--cache-security-group-names "sg1,sg2,sg3"`	No
`-t` `--notification-topic-arn` *`value`*	An Amazon SNS topic ARN that will be used to publish notifications concerning the cache clusters in the replication group. Type: String Default: None Constraints: Must be a valid Amazon Resource Name (ARN). Example: `--notification-topic-arn arn:aws:sns:us-east-1:565419523791:ElastiCacheNotifications`	No
`-ts` `--notification-topic-status` *`value`*	If `active`, Amazon SNS notifications will be sent to the associated topic ARN.. Type: String Default: None Constraints: Must be either *active* or *inactive*. Example: `--notification-topic-status active`	No
`-v` `--engine-version` *`value`*	The version number of the cache engine software. The cache clusters in this replication group will be upgraded to this version. Type: String Default: None Constraints: Must be a valid version number. Example: `--engine-version 1.4.5`	No

Name	Description	Required
`-w` `--preferred-maintenance-window` *`value`*	The weekly time range during which maintenance on the cache clusters in the replication group is performed. The minimum maintenance window is 60 minutes. Type: String Default: None Constraints: Must be in the format *ddd:hh24:mi-ddd:hh24:mi* (24 hour clock, UTC). Example: `--preferred-maintenance-window "Tue:04:00-Tue:05:00"`	No
`-sc` *`value`* `--snapshotting-cluster-id` *`value`*	The cache cluster ID that is used as the daily snapshot source for the replication group. Type: String	No
`-sr` *`value`* `--snapshot-retention-limit` *`value`*	The number of days for which ElastiCache will retain automatic cache cluster snapshots before deleting them. For example, if you set`SnapshotRetentionLimit` to 5, then a snapshot that was taken today will be retained for 5 days before being deleted. Type: Integer	No
`-sw` *`value`* `--snapshot-window` *`value`*	The daily time range (in UTC) during which ElastiCache will begin taking a daily snapshot of your cache cluster. Type: String Example: `--snapshot-window 18:00-19:00`	No

Output

The command returns the following information:

- **Replication Group Id –** The name of the replication group that is being modified.
- **Replication Group Description –** A description of the replication group.
- **Replication Group Status –** The current status of the replication group.
- **Cluster Id –** A list of identifiers of all cache clusters within the replication group.
- **Node Group Id –** The name of the node group that is associated with the replication group.
- **Node Group Address –** The IP address used to connect to the primary cache node for the node group.
- **Node Group Port –** The port number used to connect to the primary cache node for the node group.
- **Node Group Status –** The current status of the node group.
- **Node Group Member CacheClusterId –** The name of the cache cluster associated with the cache cluster node.
- **Node Group Member CacheNodeId –** The name of an individual cache cluster node in the node group.

- **Node Group Member Address –** The IP address used to connect to the cache cluster node.
- **Node Group Member Port –** The port number used to connect to the cache cluster node.
- **Node Group Member PreferredAZ –** The preferred Availability Zone of the cache cluster node.
- **Node Group Member CurrentRole –** The current role of the cache cluster node.

Examples

Modifying a Replication Group

This example enables automatic minor version upgrades for a replication group.

```
PROMPT> elasticache-modify-replication-group prod-repgroup --auto-minor-version-
upgrade=true

REPLICATIONGROUP prod-repgroup      Production replication group
available
      CLUSTERID  prod-primary
      CLUSTERID  prod-replica-1
      CLUSTERID  prod-replica-2
      NODEGROUP  0001  prod-repgroup.q68zgw.ng.0001.use1.cache.amazonaws.com
6379  available
            NODEGROUPMEMBER  prod-primary   0001  prod-
primary.q68zgw.0001.use1.cache.amazonaws.com   6379  us-east-1a  primary
            NODEGROUPMEMBER  prod-replica-1  0001  prod-replica-
1.q68zgw.0001.use1.cache.amazonaws.com  6379  us-east-1b  replica
            NODEGROUPMEMBER  prod-replica-2  0001  prod-replica-
2.q68zgw.0001.use1.cache.amazonaws.com  6379  us-east-1b  replica
```

Related Operations

- elasticache-create-replication-group (p. 27)
- elasticache-describe-replication-groups (p. 63)
- elasticache-delete-replication-group (p. 37)

elasticache-purchase-reserved-cache-nodes-offering

Description

Purchases a reserved Cache Node offering.

Syntax

```
elasticache-purchase-reserved-cache-node-offering  ReservedCacheNodesOfferingId
[-c (--cache-node-count) value ]
[-i (--reserved-cache-node-id) value ]
[Common Options]
```

Options

Name	Description	Required
`ReservedCacheNodesOfferingId`	The ID of the Reserved Cache Node offering to purchase. You can also set this value using the *`--reserved-cache-nodes-offering-id`* parameter. Type: String Default: None Example: `--reserved-cache-nodes-offering-id myreservedcachenode`	Yes
`-c` `--cache-node-count` *`value`*	The number of Cache Nodes to reserve. Type: Integer Default: 1 Example: `-c 3`	No
`-i` `--reserved-cache-node-id` *`value`*	Optional unique identifier for the purchased reservation. If this parameter is not specified, an identifier is automatically generated for the reservation. Type: String Default: None Example: `-i myreservationID`	No

Output

The command returns the following information:

- **ReservationId –** the unique identifier for the reservation.
- **OfferingID –** the offering identifier (only appears when the *--show-long* parameter is specified).
- **Class –** the Cache Node class for the reservation.
- **Start Time –** the time the reservation started
- **Duration –** the length of the duration in years.
- **Fixed Price –** the fixed price charged for each Cache Node in this reservation (only appears when the *--show-long* parameter is specified).
- **Usage Price –** the hourly price to run each reserved Cache Node (only appears when the *--show-long* parameter is specified).
- **Count –** the number of cache nodes reserved.
- **State –** the payment status of the reservation.
- **Description –** the description of the reserved cache node.

Examples

Reserve a Cache Node

This example reserves a single cache node from offering 438012d3-4052-4cc7-b2e3-8d3372e0e706.

```
PROMPT> elasticache-purchase-reserved-cache-nodes-offering 438012d3-4052-4cc7-
b2e3-8d3372e0e706 -i myreservationID
```

Reserve Multiple Cache Nodes

This example reserves five cache nodes from offering 438012d3-4052-4cc7-b2e3-8d3372e0e706.

```
PROMPT> elasticache-purchase-reserved-cache-nodes-offering 438012d3-4052-4cc7-
b2e3-8d3372e0e706 -i myreservationID -c 5
```

Related Operations

- elasticache-describe-reserved-cache-nodes (p. 65)
- elasticache-describe-reserved-cache-nodes-offerings (p. 68)

elasticache-reboot-cache-cluster

Description

Reboots cache nodes. You can supply multiple cache node identifiers to reboot multiple cache nodes.

Syntax

```
elasticache-reboot-cache-cluster CacheClusterId

-r (--nodes-to-reboot) value[,value...]

[Common Options]
```

Options

Name	Description	Required
CacheClusterId	Cache Cluster identifier. This value can also be passed using the *--cache-cluster-id* parameter. Constraints: Must be the name of an existing cache cluster.	Yes
-r --nodes-to-reboot *"value[,value...]"*	Comma-separated list of identifiers of cache nodes to be rebooted. Only the nodes corresponding to the supplied cache node identifiers will be rebooted. Constraints: Must be existing cache nodes.	Yes

Output

The command returns the following information:

- **CacheClusterId –** The user-supplied cache cluster identifier; this is the unique key that identifies a cache cluster
- **Address –** The address used to connect to the cache cluster
- **Port –** The port used to connect to the source cache cluster.
- **Client Download Landing Page –** A URL from which you can download the Amazon ElastiCache Cluster Client library.
- **Created –** The data and time the cache cluster was created, in 24-hour UTC format
- **Type –** The compute and memory capacity of the cache cluster
- **Engine –** The name of the cache engine to be used for this cache cluster
- **Status –** The current status of the cache cluster. Valid values: `available` | `creating` | `deleted` | `deleting` | `modifying`
- **NumberOfNodes –** The number of cache nodes within this cluster
- **PreferredAZ –** The preferred Availabilty Zone of this cache cluster
- **MaintenanceWindow –** The window during which patching and cluster modifications will be performed. This column only appears when the *--show-long* parameter is specified.
- **Version –** The cache engine's version number

- **PendingNumberCacheNodes –** The number of cache nodes that this cache cluster will have once a pending cache modification operation has completed.
- **Pending Version –** The version of the cache engine which will be deployed during the next maintenance window, or which is currently being deployed if the `--apply-immediately` option was specified.
- **Auto Minor Version Upgrade –** Indicates that minor version upgrades will automatically be applied to the cache cluster during its maintenance window. This column appears only in the *`--show-long`* view.
- **Subnet Group Name –** The name of the subnet group.
- **Subnet Group Status –** The current status of the subnet group.
- **Name –** The cache security group name
- **Status –** The current status of the security group authorization.
- **Group Name –** The name of the applied cache parameter group
- **Apply Status –** Status of applying the parameter group. It can be either in-sync or pending-reboot.
- **Cache Node Id –** Cache node identifier. This is the unique key that identifies a cache cluster node. (This output appears once per cache node in the cluster.)
- **Created –** The creation date of this cache cluster node. (This output appears once per cache node in the cluster.)
- **Status –** The current status of the node. (This output appears once per cache node in the cluster.)
- **Address –** Address used to connect to the cache cluster node. (This output appears once per cache node in the cluster.)
- **Port –** Port used to connect to the cache cluster node. (This output appears once per cache node in the cluster.)
- **Parameter Group Status –** The parameter group status for the cache node. If the node needs to be rebooted to apply parameter group changes, it will be `pending-reboot`. If the node is being rebooted, it will be `applying`. Otherwise, the node is in sync. (This output appears once per cache node in the cluster.)
- **Topic Arn –** The ARN for The Amazon SNS topic used to publish notifications related to cache clusters
- **Topic Status –** Status of this cache cluster's Amazon SNS notification topic
- **Node Id –** Id of node pending removal
- **Node Id –** Id of node pending reboot to apply outstanding parameter group changes

Examples

Reboot a Cache Cluster

This example reboots a cache cluster.

```
PROMPT> elasticache-reboot-cache-cluster mycachecluster01 --nodes-to-reboot
0011,0012

CACHECLUSTER  mycachecluster01  2013-07-26T01:21:46.607Z  cache.m1.large  mem
cached
rebooting cache cluster nodes  6  us-east-1d  1.4.5
    SECGROUP  default  active
    PARAMGRP  default.memcached1.4  in-sync
    NOTIFICATION  arn:aws:sns:us-east-1:565419523791:ElastiCacheNotifications
active
```

Related Operations

- elasticache-create-cache-cluster (p. 14)
- elasticache-delete-cache-cluster (p. 31)
- elasticache-describe-cache-clusters (p. 41)

elasticache-reset-cache-parameter-group

Description

Resets individual parameters or all parameters in a parameter group to cache engine defaults.

Syntax

```
elasticache-reset-cache-parameter-group CacheParameterGroupName
[-p (--parameter-name-values) "name=value" ...]]
[-a (--reset-all-parameters) ]
[Common Options]
```

Options

Name	Description	Required
CacheParameterGroupName	Cache parameter group identifier. This value can also be passed using the `--cache-parameter-group-name` named parameter. Constraints: Must be the name of an existing cache parameter group.	Yes
`-p` `--parameter-name-values` *"name=value"*	A string containing a series of parameter names to reset. A maximum of 20 parameters may be reset in a single call to the **elasticache-reset-cache-parameter-group** command. Constraints: Cannot be specified if **--reset-all-parameters** is specified.	Conditional

`-a`
 	
`--reset-all-parameters`
	Specifies that all parameters in the group should be reset to their defaults.
	
	Constraints: Cannot be specified if **--parameter-name-values** string is specified.
		Conditional

Output

The command returns the following information:

- **Group Name –** the name of the parameter group that was modified.

Examples

Reset Parameters in a Parameter Group

This example shows how to reset some parameters in a parameter group.

```
PROMPT> elasticache-reset-cache-parameter-group mycacheparamgrp --parameter-
name-values "name=cas_disabled" --parameter-name-values "name=requests_per_event"

CACHEPARAMETERGROUP  mycacheparametergroup
```

Reset Parameters in a Parameter Group

This example shows how to reset all parameters in a parameter group.

```
PROMPT> elasticache-reset-cache-parameter-group mycacheparamgrp --reset-all-
parameters

CACHEPARAMETERGROUP  mycacheparametergroup
```

Related Operations

- elasticache-create-cache-parameter-group (p. 21)
- elasticache-delete-cache-parameter-group (p. 33)
- elasticache-describe-cache-parameter-groups (p. 47)

elasticache-revoke-cache-security-group-ingress

Description

Revokes ingress to a cache security group for previously authorized EC2 security groups.

Syntax

```
elasticache-revoke-cache-security-group-ingress CacheSecurityGroupName
-g (--ec2-security-group-name) value
-o (--ec2-security-group-owner) value
[Common Options]
```

Options

Name	Description	Required
`CacheSecurityGroupName` `--cache-security-group-name` *`value`*	The name of the cache security group. This can also be passed as a named parameter using `--cache-security-group-name` *`value`* Type: String Default: None Example: `--cache-security-group-name mycachesecuritygroup`	Yes
`-g` `--ec2-security-group-name` *`value`*	The name of the EC2 security group. Type: String Default: None Example: `-g myec2securitygroup`	Yes
`-o` `--ec2-security-group-owner-id` *`value`*	The AWS account number for the owner of the EC2 security group. **Note** This is the AWS account number, not the AWS access Id. Type: String Example: `-o 123456789012`	Yes

Output

The command returns the following information:

- **Name –** the security group name

- **Description –** the security group description
- **EC2 Group Name –** the name of the EC2 security group
- **EC2 Owner Id –** the owner of the EC2 security group
- **Status –** the status of the authorization

Examples

Revoking Authorization for an EC2 Security Group

This example revokes authorization for an EC2 security group.

```
PROMPT> elasticache-revoke-cache-security-group-ingress Default --ec2-security-
group-name secgrp --ec2-security-group-owner-id 123456789012

SECGROUP  default  default
EC2-SECGROUP  mainServerGrp  123445677890  revoking
```

Related Operations

- elasticache-authorize-cache-security-group-ingress (p. 74)
- elasticache-describe-cache-security-groups (p. 52)
- elasticache-create-cache-security-group (p. 23)
- elasticache-delete-cache-security-group (p. 34)

elasticache-version

Description

Returns the current version of the Amazon ElastiCache Command Line Interface.

Syntax

```
elasticache-version
```

Options

None.

Output

This command returns a string containing the version of the Amazon ElastiCache Command Line Interface.

Examples

Example Request

This example returns the version of the Amazon ElastiCache Command Line Interface.

```
PROMPT>elasticache-version

Amazon ElastiCache CLI version 1.9.000 (API 2014-03-24)
```

Related Operations

- List of Command Line Operations by Function (p. 9)

Document History

The following table describes the important changes to the documentation since the last release of the *Amazon ElastiCache Command Line Reference*.

- **API version:** 2014-03-24
- **Latest documentation update:** June 24, 2014

Change	Description	Date Changed
New instance sizes supported	ElastiCache added support for additional General Purpose (M3) instances and Memory Optimized (R3) instances. For more information, see elasticache-create-cache-cluster and elasticache-describe-cache-parameters.	July 1, 2014
Support for Amazon Virtual Private Cloud (VPC)	In this release, ElastiCache clusters can be launched in Amazon Virtual Private Cloud (VPC). For more information, see ElastiCache and Amazon Virtual Private Cloud and Using ElastiCache with Amazon Virtual Private Cloud (VPC) in the *Amazon ElastiCache User Guide*.	December 20, 2012
New Service	This is initial public beta release of the *Amazon ElastiCache Command Line Reference*.	August 22, 2012