
Amazon ElastiCache

Command Line Interface Reference

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Amazon ElastiCache: Command Line Interface Reference

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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 Command Line Tools (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. 6)

Setting up the Command Line Tools

Topics

- [Prerequisites \(p. 2\)](#)
- [Getting the Command Line Tools \(p. 3\)](#)
- [Setting Up the Tools \(p. 3\)](#)
- [Providing Credentials for the Tools \(p. 5\)](#)

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 correctly on Mac OS X (which resembles the Linux and UNIX command environment), but 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 sub directory

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 [Amazon 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 sub-directories 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 Amazon 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 Amazon ElastiCache commands.

API Command Line Tools Reference

Topics

- [Common Options for API Tools \(p. 6\)](#)
- [List of Command Line Operations by Function \(p. 9\)](#)
- [elasticache-authorize-cache-security-group-ingress \(p. 10\)](#)
- [elasticache-create-cache-cluster \(p. 12\)](#)
- [elasticache-create-cache-parameter-group \(p. 16\)](#)
- [elasticache-create-cache-security-group \(p. 18\)](#)
- [elasticache-delete-cache-cluster \(p. 20\)](#)
- [elasticache-delete-cache-parameter-group \(p. 22\)](#)
- [elasticache-delete-cache-security-group \(p. 23\)](#)
- [elasticache-describe-cache-clusters \(p. 24\)](#)
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- [elasticache-describe-cache-parameters \(p. 33\)](#)
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- [elasticache-describe-engine-default-parameters \(p. 38\)](#)
- [elasticache-modify-cache-cluster \(p. 41\)](#)
- [elasticache-modify-cache-parameter-group \(p. 46\)](#)
- [elasticache-reboot-cache-cluster \(p. 48\)](#)
- [elasticache-reset-cache-parameter-group \(p. 50\)](#)
- [elasticache-revoke-cache-security-group-ingress \(p. 52\)](#)
- [elasticache-version \(p. 54\)](#)


Common Options for API Tools

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

Amazon ElastiCache Command Line Interface Reference
Common Options for API Tools

Option	Description
<code>--aws-credential-file value</code>	Path to the file containing your AWS credentials. This value can be stored in the <code>AWS_CREDENTIAL_FILE</code> environment variable. Example: <code>--aws-credential-file c:\AWS\mycredentials.pek</code>
<code>--connection-timeout value</code>	Specifies the connection timeout in seconds. Default: 30 Example: <code>--connection-timeout 60</code>
<code>--debug</code>	Causes debug information to be displayed on error. Default: false
<code>--delimiter value</code>	Specifies the delimiter to use when displaying long results. Default: comma
<code>--headers</code>	Displays column headers for tabular or delimited results, or HTTP headers for XML results. Default: off
<code>--help</code>	Displays help text for the command. You can also use <code>help commandname</code> . Default: off
<code>-I value</code> <code>--access-key-id value</code>	Specifies the AWS Access Id to use for requests.
<code>--region value</code>	Overrides the Region specified in the <code>EC2_REGION</code> environment variable. Default: The <code>EC2_REGION</code> environment variable, or <code>us-east-1</code> if the <code>EC2_REGION</code> environment variable is not set. Example: <code>--region eu-west-1</code>
<code>-S value</code> <code>--secret-key-value value</code>	Specifies the AWS Secret Access Key to use for requests.
<code>--show-empty-fields</code>	Show empty fields and rows with a <code>(nil)</code> value.
<code>--show-request</code>	Displays the URL used to call the AWS service.
<code>--show-table</code>	Displays the results of the command in fixed column-width format. Empty fields are not displayed. This is the default output format.
<code>--show-long</code>	Displays the results of the command delimited by a character. Empty fields are shown as <code>"(nil)"</code> . The default delimiter character is a comma.
<code>--show-xml</code>	Displays the results of the command as raw XML.
<code>--quiet</code>	Suppress all output from the command.

Amazon ElastiCache Command Line Interface Reference
Common Options for API Tools

Option	Description
<code>-U value</code> <code>--url value</code>	<p>Override the URL for the service call with the value supplied. This value is set using the <code>AWS_ELASTICACHE_URL</code> environment variable.</p> <p> Note</p> <p>You can set the <code>EC2_REGION</code> environment variable or use the <code>--region</code> parameter to avoid having to pass the <code>--url</code> parameter to specify a different regional endpoint.</p>

List of Command Line Operations by Function

Cache Clusters

- [elasticache-create-cache-cluster](#) (p. 12)
- [elasticache-delete-cache-cluster](#) (p. 20)
- [elasticache-describe-cache-clusters](#) (p. 24)
- [elasticache-modify-cache-cluster](#) (p. 41)
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Security Groups

- [elasticache-create-cache-security-group](#) (p. 18)
- [elasticache-authorize-cache-security-group-ingress](#) (p. 10)
- [elasticache-delete-cache-security-group](#) (p. 23)
- [elasticache-describe-cache-security-groups](#) (p. 36)
- [elasticache-revoke-cache-security-group-ingress](#) (p. 52)

Parameter Groups

- [elasticache-create-cache-parameter-group](#) (p. 16)
- [elasticache-delete-cache-parameter-group](#) (p. 22)
- [elasticache-describe-cache-parameters](#) (p. 33)
- [elasticache-modify-cache-parameter-group](#) (p. 46)
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- [elasticache-describe-engine-default-parameters](#)
- [elasticache-reset-cache-parameter-group](#) (p. 50)

Other

- [elasticache-describe-events](#) (p. 27)
- [elasticache-version](#) (p. 54)

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*

[General Options]

Options

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

Output

The command returns a table with the following information:

- **Name**—Security group name.
- **Description**—Security group description.
- **EC2 Group Name**—Name of the EC2 security group.
- **EC2 Owner Id**—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-  
security-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. 52)

elasticache-create-cache-cluster

Description

Creates a new cache cluster.

Syntax


```
elasticache-create-cache-cluster CacheClusterId
-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 ]
[-t (--notification-topic-arn) value ]
[-v (--engine-version) value ]
[-z (--preferred-availability-zone) value ]
[-w (--preferred-maintenance-window value ]
[General Options]
```

Options

Name	Description	Required
<i>CacheClusterId</i>	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
<i>-sg value[,value...]</i> <i>--cache-security-group-names value[,value...]</i>	A list of one or more security groups to associate with this cache cluster. Type: String[] Example: <i>--cache-security-group-names mysecuritygroup1,mysecuritygroup2</i>	Yes

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Options

Name	Description	Required
<code>-c value</code> <code>--cache-node-type value</code>	Contains the compute and memory capacity of the cache cluster. Type: String Default: None Valid values: <code>cache.m1.small</code> <code>cache.m1.large</code> <code>cache.m1.xlarge</code> <code>cache.m2.xlarge</code> <code>cache.m2.2xlarge</code> <code>cache.m2.4xlarge</code> <code>cache.c1.xlarge</code> Example: <code>--cache-node-type cache.m1.xlarge</code>	Yes
<code>-e value</code> <code>--engine value</code>	Name of the cache engine to be used for this cache cluster. Type: String Default: None Valid values: <code>memcached</code> Example: <code>--engine memcached</code>	Yes
<code>-au value</code> <code>--auto-minor-version-upgrade value</code>	Indicates whether minor version upgrades will automatically be applied to the cache cluster during the maintenance window. Type: String Default: <code>true</code>	No
<code>-pg value</code> <code>--cache-parameter-group-name value</code>	The Cache Parameter Group to associate with the cache cluster. Type: String Default: The default Cache Parameter Group for the specified engine. Example: <code>-pg mycacheparametergroup1</code>	No
<code>-n value</code> <code>--num-cache-nodes value</code>	Number of cache nodes. Type: Integer Valid values: An integer from 1 to 20 Example: <code>--num-cache-nodes 2</code>	Yes
<code>-p value</code> <code>--port value</code>	Port number that the cache cluster uses for connections. Type: Integer Default: 11211 Example: <code>--port 1234</code>	No
<code>-t value</code> <code>--notification-topic-arn value</code>	The Amazon Simple Notification Service (SNS) topic used to publish notifications related to this cache cluster. Type: String	No
<code>-v value</code> <code>--engine-version value</code>	The version of the cache engine to use for this cache cluster. Type: String	No

Name	Description	Required
<code>-w value</code> <code>--preferred-maintenance-window value</code>	<p>Specifies the weekly time range during which maintenance on the cache cluster is performed. It is specified as a range in the format <code>ddd:hh24:mi-ddd:hh24:mi</code> (24H Clock UTC). The minimum maintenance window is a 30 minute period.</p> <p>Type: String</p> <p>Example: <code>--preferred-maintenance-window sun:22:00-sun:22:30</code></p>	No
<code>-z value</code> <code>--preferred-availability-zone value</code>	<p>The name of the EC2 Availability Zone where your cache cluster will be created.</p> <p> Note</p> <p>In normal use, all cache nodes belonging to a cache cluster are placed in the preferred availability zone. In rare circumstances, some of the cache nodes might temporarily be in a different availability zone.</p> <p>Type: String</p> <p>Default: A random, system-chosen Availability Zone.</p> <p>Example: <code>--preferred-availability-zone us-east-1a</code></p>	No

Output

The command returns a table that contains the following information:

- **CacheClusterId**—The user-supplied cache cluster identifier; this is the unique key that identifies a cache cluster
- **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**—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 availability 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.
- **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.
- **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
- **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

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 SimCoProd01 -n 3 -c cache.ml.large -e memcached -sg default

CACHECLUSTER  simcoprod01  cache.ml.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 the all of the optional parameters.

```
PROMPT> elasticache-create-cache-cluster SimCoProd01 --num-cache-nodes 3 --
cache-node-type cache.ml.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:03:15 --auto-minor-version-upgrade true --notification-topic-arn
arn:aws:sns:us-east-1:1234567890:TestSNS

CACHECLUSTER  simcoprod03  cache.ml.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. 24)
- [elasticache-modify-cache-cluster](#) (p. 41)
- [elasticache-delete-cache-cluster](#) (p. 20)

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
```

[General Options]

Options

Name	Description	Required
<i>CacheParameterGroupName</i>	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 <i>value</i> --description <i>value</i>	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
-fm <i>value</i> --cache-parameter-group-family <i>value</i>	The Cache Parameter Group family. A Cache Parameter Group can be associated with one and only one Cache Parameter Group family, and can be applied only to a cache cluster running a cache engine compatible with that Cache Parameter Group family. Type: String Default: None Valid value: memcached1.4 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. 22)
- [elasticache-modify-cache-parameter-group](#) (p. 46)
- [elasticache-describe-cache-parameter-groups](#) (p. 31)

elasticache-create-cache-security-group

Description

Creates a new Cache Security Group.

Syntax

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

```
-d (--description) value
```

[General Options]

Options

Name	Description	Required
<i>CacheSecurityGroupName</i>	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 <i>default</i> .	Yes
-d <i>value</i> --description <i>value</i>	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. 23)
- [elasticache-authorize-cache-security-group-ingress](#) (p. 10)
- [elasticache-describe-cache-security-groups](#) (p. 36)

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`)] [General Options]

Options

Name	Description	Required
<i>CacheClusterId</i>	Cache cluster identifier.	Yes
<code>-f value</code> <code>--force</code>	Forces no confirmation prompt for the delete operation.	No

Output

The command returns a table that contains the following information:

- **CacheClusterId**—The user-supplied cache cluster identifier; this is the unique key that identifies a cache cluster
- **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**—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 availability 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.
- **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.
- **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
- **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

Delete a cache cluster

This example deletes a cache cluster.

```
PROMPT> elasticache-delete-cache-cluster simcoprod03
```

```
    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  simcoprod03  2011-07-26T23:55:19.073Z  cache.ml.large  memcached
deleting 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
```

Related Operations

- [elasticache-create-cache-cluster](#) (p. 12)
- [elasticache-describe-cache-clusters](#) (p. 24)
- [elasticache-delete-cache-cluster](#) (p. 20)

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) ]
```

```
[General Options]
```

Options

Name	Description	Required
<i>CacheParameterGroupName</i>	Cache parameter group name. This value can also be passed using the <code>--cache-parameter-group-name</code> named parameter. Constraints: Must be the name of an existing cache parameter group.	Yes
<code>-f</code> <code>--force</code>	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. 16)
- [elasticache-describe-cache-parameter-groups](#) (p. 31)
- [elasticache-modify-cache-parameter-group](#) (p. 46)

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) ]
```

```
[General Options]
```

Options

Name	Description	Required
<i>CacheSecurityGroupName</i>	Cache security group identifier. This value can also be passed using the <code>--cache-security-group-name</code> named parameter. Constraints: Must be the name of an existing cache security group.	Yes
-f --force	Forces no 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. 18)
- [elasticache-describe-cache-security-groups](#) (p. 36)

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`

`[--max-records] value`

[General Options]

Options

Name	Description	Required
<i>CacheClusterId</i>	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
<code>-sn</code> <code>--show-cache-node-info</code>	Indicates that node information should be returned. Type: Boolean Default: false	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
- **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**—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 availability zone of this cache cluster
- **Version**—The cache engine's version number

- **MaintenanceWindow**—The window during which patching and cluster modifications will be performed. This column only appears when the `--show-long` parameter is specified.
- **PendingNumberCacheNodes**—The number of cache nodes that this cache cluster will have once a pending cache modification operation has completed.
- **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.
- **Name**—The Cache Security Group name
- **Status**—The current status of the security group authorization.
- **Group Name**—The name of the cache parameter group applied
- **Apply Status**—Status of applying the parameter group. It can be either `in-sync` or `pending-reboot`.
- **CacheNodeId** - The cache node identifier; this is the unique key that identifies a cache cluster node.
- **Created**—The creation date of this cache cluster node.
- **Status**—The current status of the node.
- **Address**—Address used to connect to the cache cluster node.
- **Port**—Port used to connect to the cache cluster node.
- **ParameterGroupStatus**—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`.
- **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

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  simcoprod01  2011-07-26T23:45:20.937Z  cache.m1.large  memcached
available 3 us-east-1b 1.4.5
  SECGROUP  default  active
  PARAMGRP  default.memcached1.4  in-sync
CACHECLUSTER  simcoprod03  2011-07-26T23:55:19.073Z  cache.m1.large  memcached
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, with node information.

```
PROMPT> elasticache-describe-cache-clusters simcoprod01 --show-cache-node-info

CACHECLUSTER  simcoprod01  2011-07-26T23:45:20.937Z  cache.m1.large  memcached
available 3 us-east-1b 1.4.5
  SECGROUP  default  active
  PARAMGRP  default.memcached1.4  in-sync
  CACHENODE 0013  available  simcoprod01.khd63w.0013.usel1dv.cache.amazon
aws.com 11211  in-sync
  CACHENODE 0014  available  simcoprod01.khd63w.0014.usel1dv.cache.amazon
aws.com 11211  in-sync
  CACHENODE 0015  available  simcoprod01.khd63w.0015.usel1dv.cachev.amazon
aws.com 11211  in-sync
```

Related Operations

- [elasticache-create-cache-cluster](#) (p. 12)
- [elasticache-delete-cache-cluster](#) (p. 20)
- [elasticache-modify-cache-cluster](#) (p. 41)

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 ]
```

```
[--max-records value ]
```

[General Options]

Options

Name	Description	Required
-d <i>value</i> --duration <i>value</i>	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 <i>value</i> --start-time <i>value</i>	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 2009-03-31T10:00:00	No
-et <i>value</i> --end-time <i>value</i>	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 2009-03-31T12:00:00	No

Name	Description	Required
<code>-s value</code> <code>--source-type value</code>	Specifies the event source for which to retrieve events. Type: String Valid values: <code>cache-cluster</code> , <code>cache-security-group</code> , <code>cache-parameter-group</code> Example: <code>--source-type cache-cluster</code>	No
<code>-i value</code> <code>--source-identifier value</code>	Used with the <code>--source-type</code> parameter to restrict returned events to a specific named source. Type: String Example: <code>--source-type cache-cluster</code> <code>--source-identifier myCacheCluster</code>	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 2011-07-26T23:38:31.164Z default            Applied change to
s
ecurity group
cache-cluster        2011-07-26T23:45:20.937Z simcoprod01        Cache cluster creat
ed
cache-cluster        2011-07-26T23:45:20.944Z simcoprod01        Added cache nodes
0
013
cache-cluster        2011-07-26T23:45:20.946Z simcoprod01        Added cache nodes
0
014
cache-cluster        2011-07-26T23:45:20.949Z simcoprod01        Added cache nodes
0
015
cache-cluster        2011-07-26T23:55:19.073Z simcoprod03        Cache cluster creat
ed
cache-cluster        2011-07-26T23:55:19.079Z simcoprod03        Added cache nodes
```

```
0
019
cache-cluster      2011-07-26T23:55:19.081Z  simcoprod03  Added cache nodes
0
020
cache-cluster      2011-07-26T23:55:19.083Z  simcoprod03  Added cache nodes
0
021
cache-cluster      2011-07-27T00:18:32.202Z  simcoprod03  Cache node 0020
shu
tdown
cache-cluster      2011-07-27T00:18:32.219Z  simcoprod03  Cache node 0021
shu
tdown
cache-cluster      2011-07-27T00:18:32.391Z  simcoprod03  Cache node 0019
shu
tdown
cache-cluster      2011-07-27T00:20:48.842Z  simcoprod03  Removed cache nodes
0019
cache-cluster      2011-07-27T00:20:48.845Z  simcoprod03  Removed cache nodes
0020
cache-cluster      2011-07-27T00:20:48.848Z  simcoprod03  Removed cache nodes
0021
cache-cluster      2011-07-27T00:20:48.856Z  simcoprod03  Cache cluster delet
ed
```

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-
identifier test001
```

Source Type	Date	Source Id	Message
cache-cluster created	2011-03-27 00:37:59	test001	Cache cluster test001
cache-cluster deleted	2011-03-27 01:09:58	test001	Cache cluster test001

Describe Events for a Specified Time Interval

This example returns only events for a specific time interval.

```
PROMPT> elasticache-describe-events --start-time 2011-03-02T00:00:00-08:00 --
end-time 2011-03-02T23:59:59-08:00
```


Related Operations

- [elasticache-describe-cache-clusters](#) (p. 24)
- [elasticache-describe-cache-parameter-groups](#) (p. 31)
- [elasticache-describe-cache-security-groups](#) (p. 36)

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 ]
```

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

[General Options]

Options

Name	Description	Required
<i>CacheParameterGroupName</i>	Cache parameter group name. This value can also be supplied using the <code>--cache-parameter-group-name</code> 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
gro
up for memcached1.4
CACHEPARAMETERGROUP mycacheparametergroup2 memcached1.4 My second cache param
eter group
```

Related Operations

- [elasticache-create-cache-parameter-group](#) (p. 16)
- [elasticache-delete-cache-parameter-group](#) (p. 22)
- [elasticache-modify-cache-parameter-group](#) (p. 46)

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 ]
```

[General Options]

Options

Name	Description	Required
<i>CacheParameterGroupName</i>	Cache parameter group name. This value can also be supplied using the <code>--cache-parameter-group-name</code> parameter. Type: String Default: None	Yes
<code>-s value</code> <code>--source value</code>	Specifies which parameter types to return. Type: String Default: None Valid values: <code>user</code> <code>system</code> <code>engine-default</code>	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.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.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-create-cache-parameter-group](#) (p. 16)
- [elasticache-describe-cache-parameter-groups](#) (p. 31)
- [elasticache-modify-cache-parameter-group](#) (p. 46)
- [elasticache-delete-cache-parameter-group](#) (p. 22)

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 ]
```

```
[--max-records value ]
```

```
[General Options]
```

Options

Name	Description	Required
<i>CacheSecurityGroupName</i>	Cache security group name. This value can also be supplied using the <code>--cache-security-group-name</code> 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. 18)
- [elasticache-delete-cache-security-group](#) (p. 23)
- [elasticache-authorize-cache-security-group-ingress](#) (p. 10)
- [elasticache-revoke-cache-security-group-ingress](#) (p. 52)

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* [General Options]

Options

Name	Description	Required
<i>CacheParameterGroupFamily</i>	Contains the name of the Cache Parameter Group family for which to list defaults. This value can also be set using the <code>--cache-parameter-group-family</code> named parameter. Type: String Default: None	Yes

Output

The command returns a table containing 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 Modifiab
le 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. 33)
- [elasticache-modify-cache-parameter-group](#) (p. 46)
- [elasticache-reset-cache-parameter-group](#) (p. 50)

elasticache-modify-cache-cluster

Description

Changes the settings of an existing Cache Cluster.

Syntax

```
elasticache-modify-cache-cluster CacheClusterId

[-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 ]

[General Options]
```

Options

Name	Description	Required
<i>CacheClusterId</i>	Cache cluster identifier. This is the unique key that identifies an 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
<i>-sg value[,value...]</i> <i>--cache-security-group-names value[,value...]</i>	A list of one or more cache security groups to associate with this cache cluster. Type: String[] Example: <i>--cache-security-group-names mysecuritygroup1,mysecuritygroup2</i>	No

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Options

Name	Description	Required
<code>--apply-immediately</code>	<p>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.</p> <p>Type: Boolean Default: <code>False</code> Valid values: <code>True</code> <code>False</code></p>	No
<code>-au value</code> <code>--auto-minor-version-upgrade value</code>	<p>Indicates whether minor version upgrades will automatically be applied to the cache cluster during the maintenance window.</p> <p>Type: String</p>	No
<code>-pg value</code> <code>--cache-parameter-group-name value</code>	<p>The Cache Parameter Group to associate with the cache cluster.</p> <p>Type: String Default: The default Cache Parameter Group for the specified engine. Example: <code>-pg mycacheparametergroup1</code></p>	No
<code>-n value</code> <code>--num-cache-nodes value</code>	<p>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 <code>-r</code> parameter.</p> <p>Type: String</p>	No
<code>-r value</code> <code>--nodes-to-remove value</code>	<p>Comma-delimited list of node identifiers to remove from this cache cluster. This parameter is only required if the <code>-n</code> parameter is specified with a number less than the current number of nodes for this cache cluster.</p> <p>Type: String</p>	No
<code>-t value</code> <code>--notification-topic-arn value</code>	<p>The Amazon Simple Notification Service (SNS) topic used to publish notifications related to this cache cluster.</p> <p>Type: String</p>	No
<code>-ts value</code> <code>--notification-topic-status value</code>	<p>The status of the Amazon Simple Notification Service (SNS) topic for this cache cluster. Notifications are sent only if this is active.</p> <p>Type: Integer Valid values: <code>Active</code> <code>Inactive</code></p>	No
<code>-v value</code> <code>--engine-version value</code>	<p>The version of the cache engine to use for this cache cluster.</p> <p>Type: String</p>	No

Name	Description	Required
<code>-w value</code> <code>--preferred-maintenance-window value</code>	Specifies the weekly time range during which maintenance on the cache cluster is performed. It is specified as a range in the format <code>ddd:hh24:mi-ddd:hh24:mi</code> (24H Clock UTC). The minimum maintenance window is a 30 minute period. Type: String Example: <code>--preferred-maintenance-window sun:22:00-sun:22:30</code>	No

Output

The command returns a table that contains the following information:

- **CacheClusterId**—The user-supplied cache cluster identifier; this is the unique key that identifies a cache cluster
- **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**—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 availability 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.
- **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.
- **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
- **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

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. 12)
- [elasticache-delete-cache-cluster](#) (p. 20)
- [elasticache-describe-cache-clusters](#) (p. 24)

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" ...]]
```

[General Options]

Options

Name	Description	Required
<i>CacheParameterGroupName</i>	Cache parameter group identifier. Stored as a lowercase string. This value can also be passed using the <code>--cache-parameter-group-name</code> 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 <code>--parameter-name-values</code> argument is required; subsequent arguments are optional. A maximum of 20 parameters may be updated in a single call to the <code>elasticache-modify-parameter-group</code> 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. 16)
- [elasticache-delete-cache-parameter-group](#) (p. 22)
- [elasticache-describe-cache-parameter-groups](#) (p. 31)

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...]*

[General Options]

Options

Name	Description	Required
<i>CacheClusterId</i>	Cache Cluster identifier. This value can also be passed using the <code>--cache-cluster-id</code> parameter. Constraints: Must be the name of an existing cache cluster.	Yes
<code>-r</code> <code>--nodes-to-reboot</code> <i>"value[,value...]"</i>	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
- **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**—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 availability 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.
- **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.
- **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
- **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 simcoprod42 --nodes-to-reboot 0011,0012

CACHECLUSTER  simcoprod42  2011-07-26T01:21:46.607Z  cache.m1.large  memcached
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. 12)
- [elasticache-delete-cache-cluster](#) (p. 20)
- [elasticache-describe-cache-clusters](#) (p. 24)

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) ] [General Options]
```

Options

Name	Description	Required
<i>CacheParameterGroupName</i>	Cache parameter group identifier. This value can also be passed using the <code>--cache-parameter-group-name</code> named parameter. Constraints: Must be the name of an existing cache parameter group.	Yes
-p <code>--parameter-name-values</code> <i>"name=value"</i>	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 <code>--reset-all-parameters</code>	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. 16)
- [elasticache-delete-cache-parameter-group](#) (p. 22)
- [elasticache-describe-cache-parameter-groups](#) (p. 31)

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*

[General Options]

Options

Name	Description	Required
CacheSecurityGroupName <code>--cache-security-group-name</code> <i>value</i>	The name of the Cache Security Group. This can also be passed as a named parameter using <code>--cache-security-group-name</code> <i>value</i> Type: String Default: None Example: <code>--cache-security-group-name mycachesecuritygroup</code>	Yes
<code>-g</code> <code>--ec2-security-group-name</code> <i>value</i>	The name of the EC2 security group. Type: String Default: None Example: <code>-g myec2securitygroup</code>	Yes
<code>-o</code> <code>--ec2-security-group-owner-id</code> <i>value</i>	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: <code>-o 123456789012</code>	Yes

Output

The command returns a table with 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. 10)
- [elasticache-describe-cache-security-groups](#) (p. 36)
- [elasticache-create-cache-security-group](#) (p. 18)
- [elasticache-delete-cache-security-group](#) (p. 23)

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 1.5.000 (API 2011-07-15)
```

Related Operations

- [List of Command Line Operations by Function \(p. 9\)](#)

Document History

This What's New is associated with the 2011-07-15 version of Amazon ElastiCache. This guide was last updated on 09 September 2011.

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

Change	Description	Release Date
New Service	This is initial public beta release of the <i>Amazon ElastiCache Command Line Reference</i> .	22 August 2011