ElastiCache [Redis]

Database services

Amazon ElastiCache
Real-time performance for real-time applications

Delivers real-time performance, and enables applications to scale instantly. ElastiCache is compatible with two open-source caching solutions: Redis OSS and Memcached.

Get started

Create a serverless cache in just a few clicks.

Get started ▼

Cluster settings Info

Configuration Info

Choose one of the following options to create a Redis cache.

Deployment option

○ Serverless - *new*
Use to quickly create a cache that automatically scales to meet application traffic demands, with no servers to manage.

● Design your own cache
Use to create a cache by selecting node type, size, and count.

Creation method

○ Easy create
Use recommended best practice configurations. You can also modify options after you create the cluster.

● Cluster cache
Set all of the configuration options for your new cluster.

○ Restore from backup
Use an existing backup or .rdb file to restore a cluster.

Cluster mode

Scale your cluster dynamically with no downtime.

○ Enabled
Cluster mode enables replication across multiple shards for enhanced scalability and availability.

● Disabled
The Redis cluster will have a single shard (node group) with one primary node and up to 5 read replica.

ⓘ If you choose cluster mode disabled you cannot change the number of shards. The configuration supports all Redis commands and functionality but limits maximum cache size and performance. Learn more ↗

Cluster info

Use the following options to configure the cluster.

Name

Redis-Clister-Demo

The name can have up to 40 characters, and must not contain spaces.

Description - *optional*

Description

Location

AWS Cloud
Use the AWS Cloud for your ElastiCache instances.

On premises
Create your ElastiCache instances on an Outpost (through AWS Outposts). You need to create a subnet ID on an Outpost first.

Multi-AZ

☐ Enable
Multi-AZ provides enhanced high availability through automatic failover to a read replica, cross AZs, in case of a primary node failover.

Auto-failover

☐ Enable
ElastiCache Auto Failover provides enhanced high availability through automatic failover to a read replica in case of a primary node failover.

Engine version
Version compatibility of the Redis engine that will run on your nodes.

7.1 ▼

Port
The port number that nodes accept connections on.

6379

Parameter groups
Parameter groups control the runtime properties of your nodes and clusters.

default.redis7 ▼

Node type
The type of node to be deployed and its associated memory size.

cache.t2.micro ▼
0.5 GiB memory   Low to moderate network performance

Number of replicas
Enter the number of replicas between 0 and 5. Zero replicas will not enable an enhanced cluster with primary/replica roles.

2

A subnet group is a collection of subnets (typically private). Designate a subnet group for your clusters running in an Amazon Virtual Private Cloud (VPC) environment.

Subnet groups

○ Choose existing subnet group   ⦿ Create a new subnet group

Name

New-Subnet-Redis

The name can have up to 255 characters, and must not contain spaces.

Description - *optional*

Description

VPC ID

The identifier for the VPC environment where your cluster is to run.

vpc-0e671aee2ece8f84d   ▼   **Create VPC** ↗

ⓘ For Multi-AZ high availability mode, choose IDs for at least two subnets from two Availability Zones in the table below.

Availability Zone placements

Use the following fields to configure placements for Availability Zones.

Availability Zone placements

By locating nodes in different Availability Zones, you reduce the chance that a failure in one Availability Zone, such as a power outage, will cause your entire system to fail. Choose **Specify Availability Zones** if you want to specify Availabily Zones for cluster nodes.

Specify Availability Zones   ▼

    ‹   1   ›

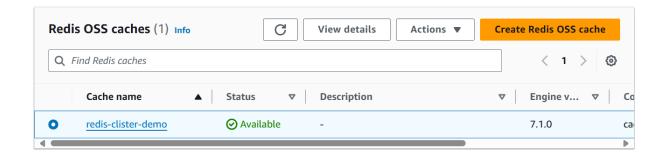| Replicas	Region	
Primary	ap-south-1a	▼
Replica 1	ap-south-1a	▼
Replica 2	ap-south-1b	▼

Backup

You can use backups to restore a cluster or seed a new cluster. The backup consists of the cluster's metadata, along with all of the data in the cluster.

☐ **Enable automatic backups**

ElastiCache will automatically create a daily backup of a set of replicas.

Redis OSS caches (1) **Info**

Cache name	▲	Status	▽	Description	▽	Engine v...	▽	Co
○ redis-clister-demo		⊘ Available		-		7.1.0		ca

[CONNECT WITH EC2 USING THESE COMMANDS]

1. sudo wget https://download.redis.io/redis-stable.tar.gz
2. sudo tar -xvzf redis-stable.tar.gz
3. cd redis-stable
4. sudo yum groupinstall "Development Tools"
5. sudo yum install openssl-devel
6. sudo make BUILD_TLS=yes
7. sudo make install
8. src/redis-cli -h configuration-endpoint -c -p port number
9. set x Hello
10. get x