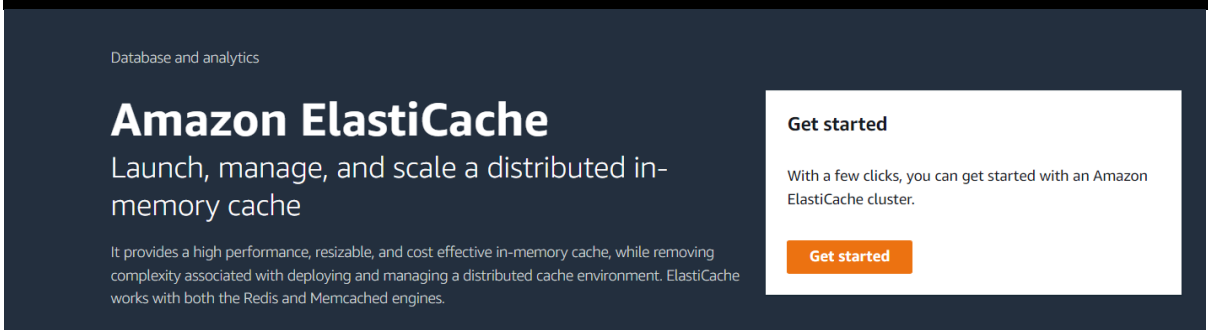
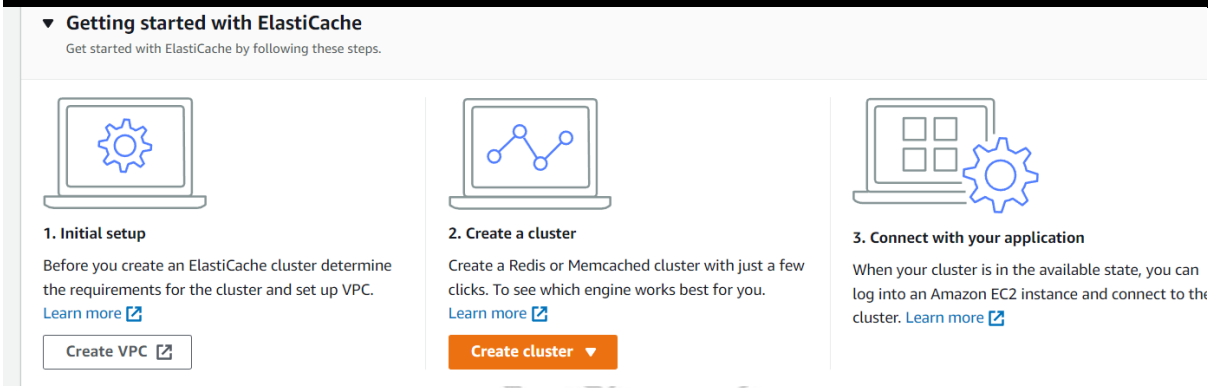
ElastiCache

Configure

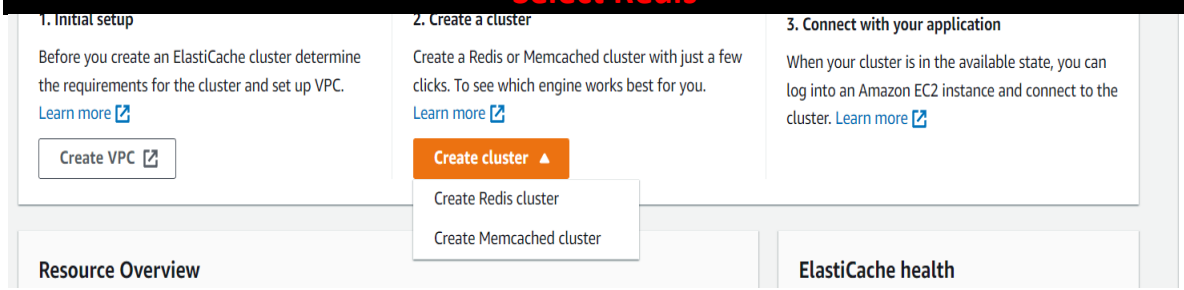
Create Elasticache



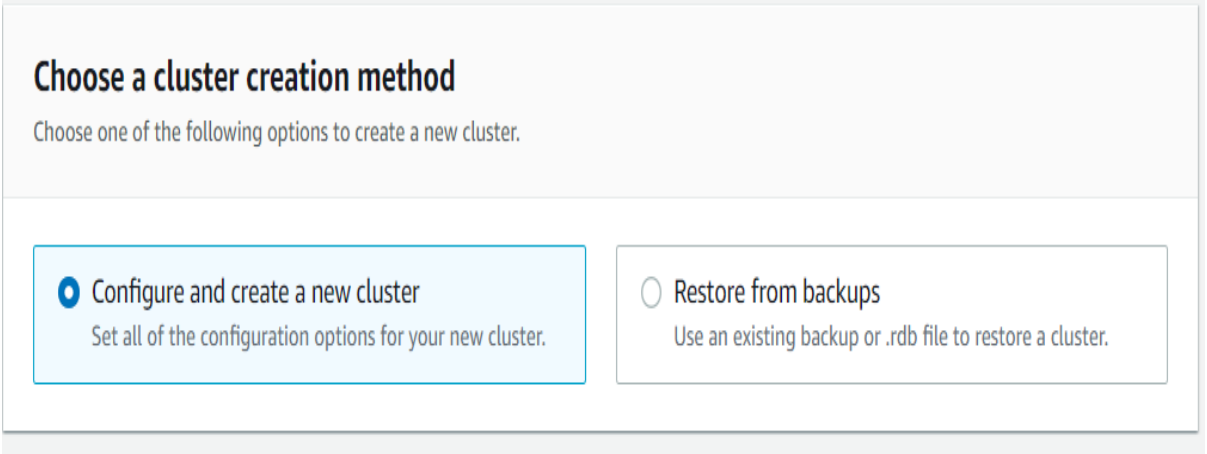
Create cluster



Select Redis



Choose cluster



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Cluster mode one

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.

ⓘ Enabling cluster mode supports partitioning your data across up to 500 node groups and improves performance of Redis clusters. Some commands are unavailable in this mode. Learn more

Create new OAI

Cluster info

Use the following options to configure the cluster.

Name

demo-redis

The name is required, can have up to 40 characters, and must begin with a letter. It should not end with a hyphen or contain two consecutive hyphens. Valid characters: A-Z, a-z, 0-9, and - (hyphen).

Description - *optional*

demo redis

Select location

Location

Choose whether to host the cluster in the AWS Cloud or on premises.

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

- [x] 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

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

ElastiCache

Select cluster settings

Cluster settings

Use the following options to configure the cluster.

Engine version

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

6.2

Port

The port number that nodes accept connections on.

6379

Parameter groups

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

default.redis6.x.cluster.on

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 shards

Enter the number of shards in this cluster, from 1 to 500.

3

Replicas per shard

Enter the number of replicas for each shard, from 0 to 5.

2

Create subnet group

Subnet group settings

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

redis-subnet-group

The name is required, can have up to 255 characters, and must begin with a letter. It should not end with a hyphen or contain two consecutive hyphens. Valid characters: A-Z, a-z, 0-9, and - (hyphen).

Description - *optional*

Description

All settings as it is

VPC ID

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

vpc-0c930c8f6492bbf6c

Create VPC

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

Selected subnets (3)

Manage

Availability Zone	Subnet ID	CIDR block
us-east-2a	subnet-09270613a3c12521f	172.31.0.0/20
us-east-2b	subnet-039d04a563f0ce14c	172.31.16.0/20
us-east-2c	subnet-07663653eeb747912	172.31.32.0/20

Availability Zone placements

Use the following fields to configure placements for Availability Zones.

Slots and keyspaces

Distribution of the 16,384 Redis cluster keyspace slots across shards.

Equal distribution

Availability Zone placements

HA mode - Globally, distribute AZs to maximize AZ spread across shard masters. At the second level, spread nodes within a shard across AZs for within-shard HA. Low latency mode - For fast writes, put all shard masters in the same AZ.

No preference

1

Shards	Slots/keyspaces	Primary	Replica 1	Replica 2
Shard 1	Equal distribution	No preference	No preference	No preference
Shard 2	Equal distribution	No preference	No preference	No preference
Shard 3	Equal distribution	No preference	No preference	No preference

Cancel

Next

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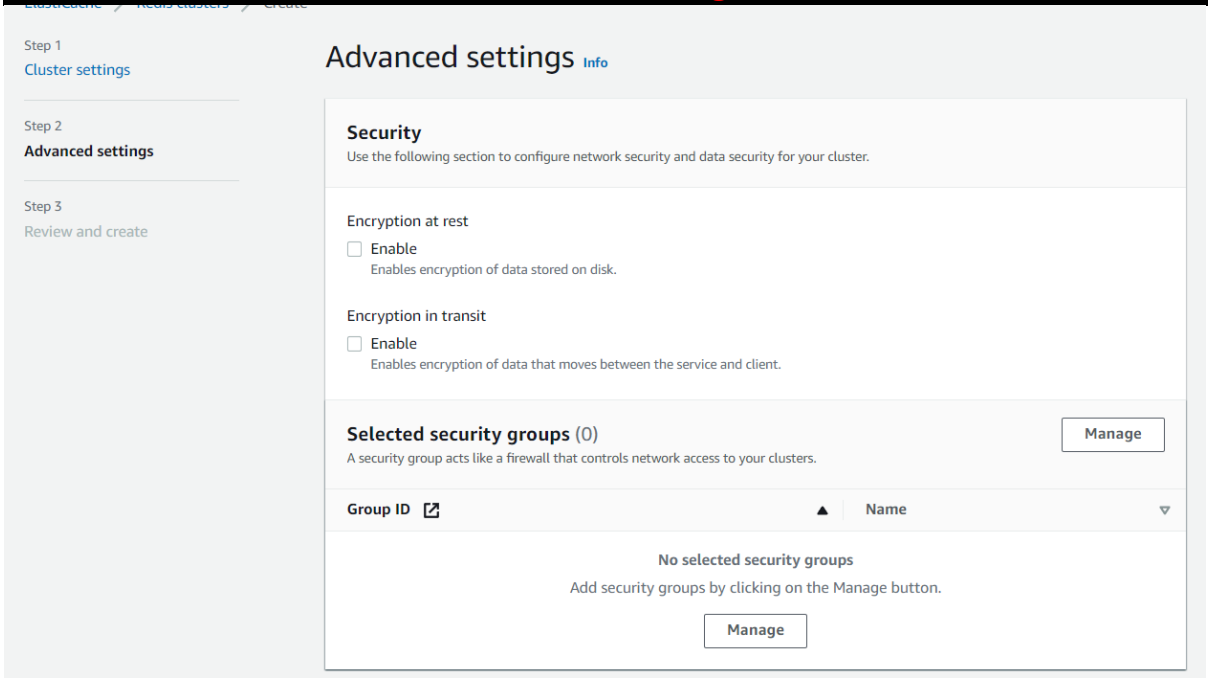
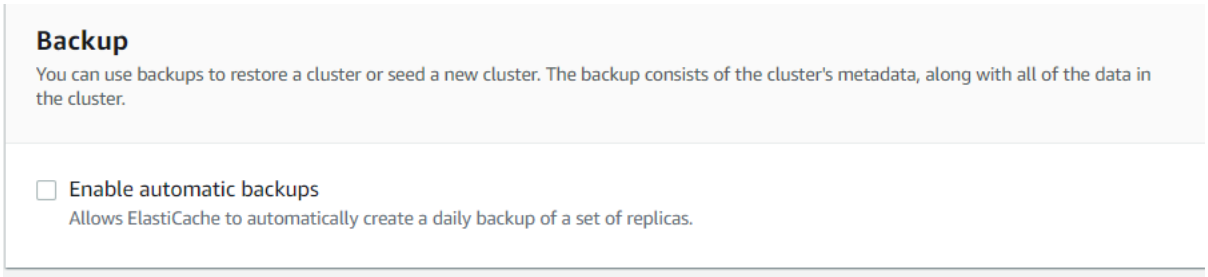
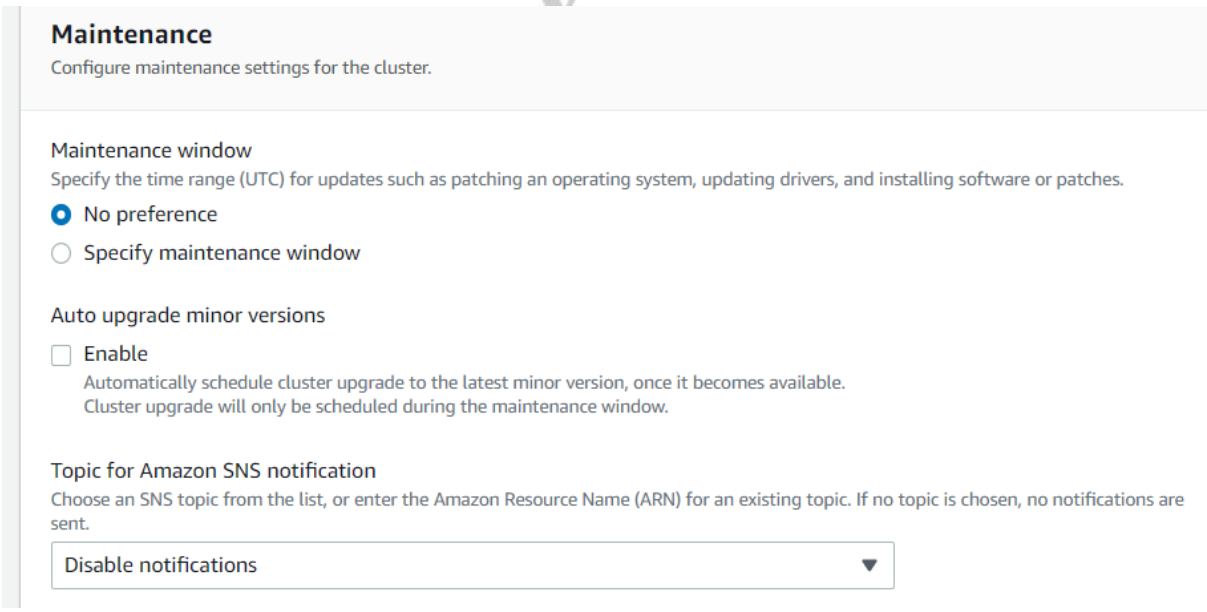
Advance setting







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Logs

Specify whether to provide the Redis slow logs or engine logs.

Slow logs

Enable

Provide the Redis slow log for queries that exceed a specified runtime.

Engine logs

Enable

Provide the engine log for queries that exceed a specified runtime.

Tags

You can use tags to search and filter your clusters or track your AWS costs.

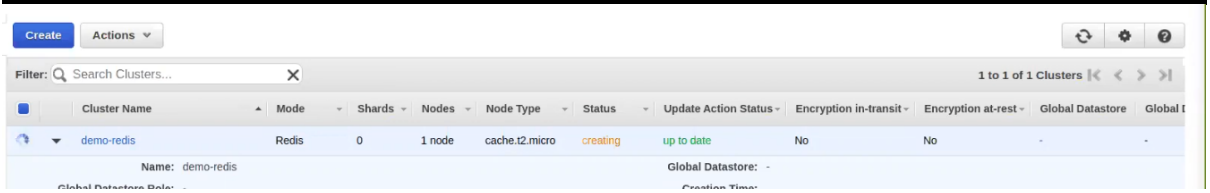
No tags associated with the cluster.

Add new tag

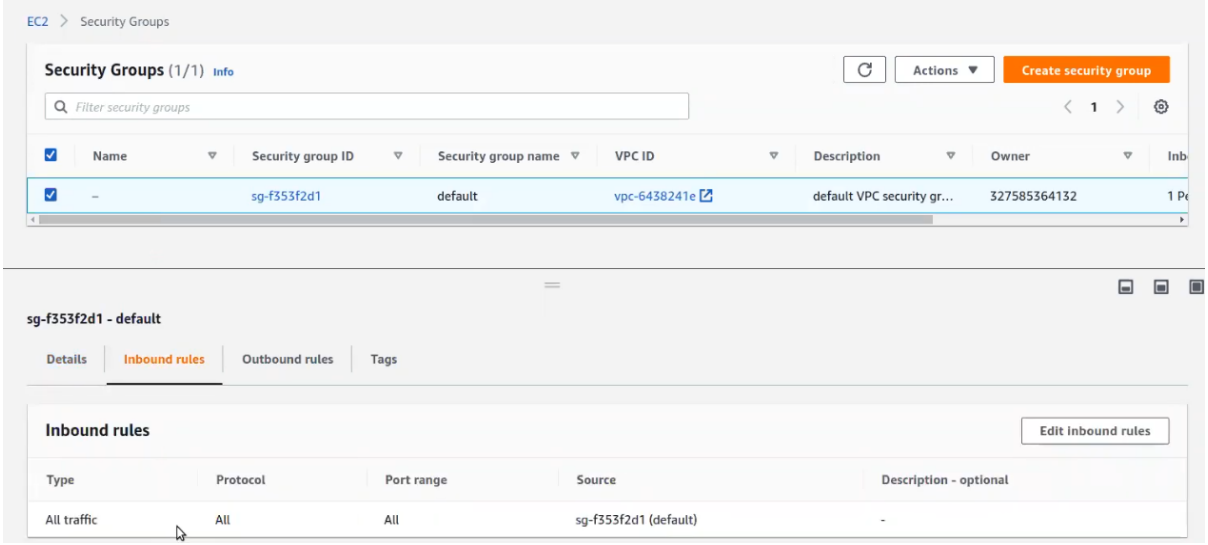
You can add 50 more tags.

Cancel Previous Next

Create successfully



Change SG rules



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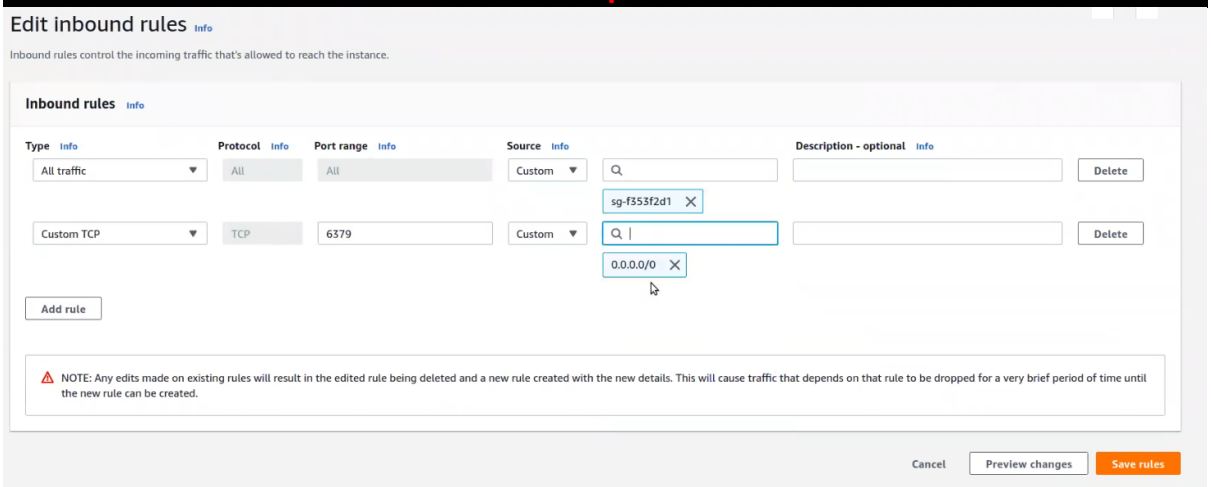
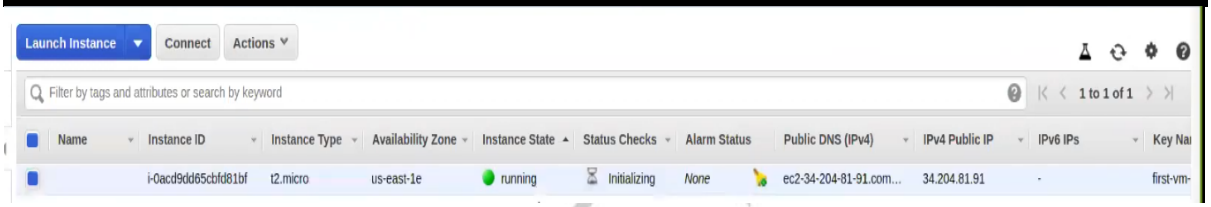
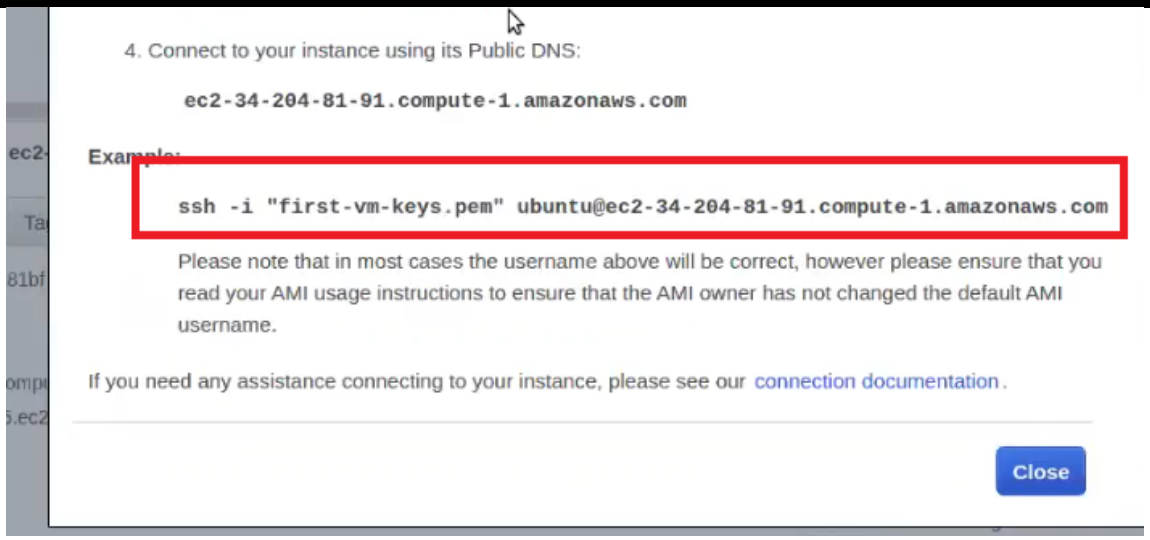
Add port



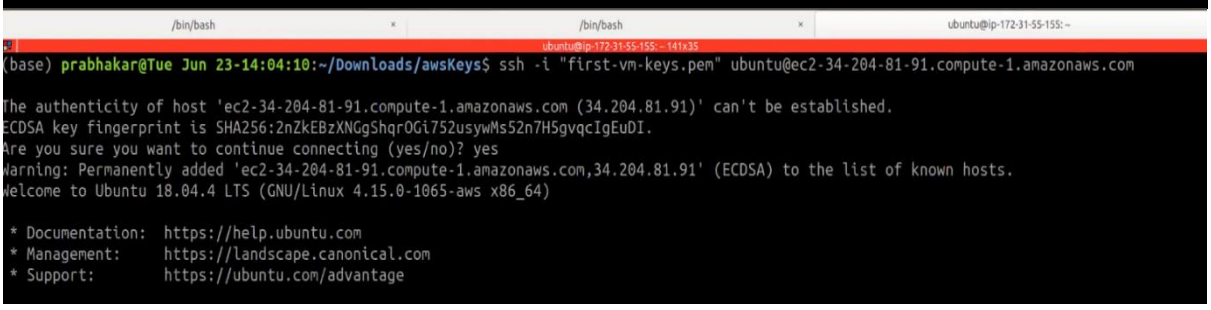
Create EC2



connected



connected



ElastiCache

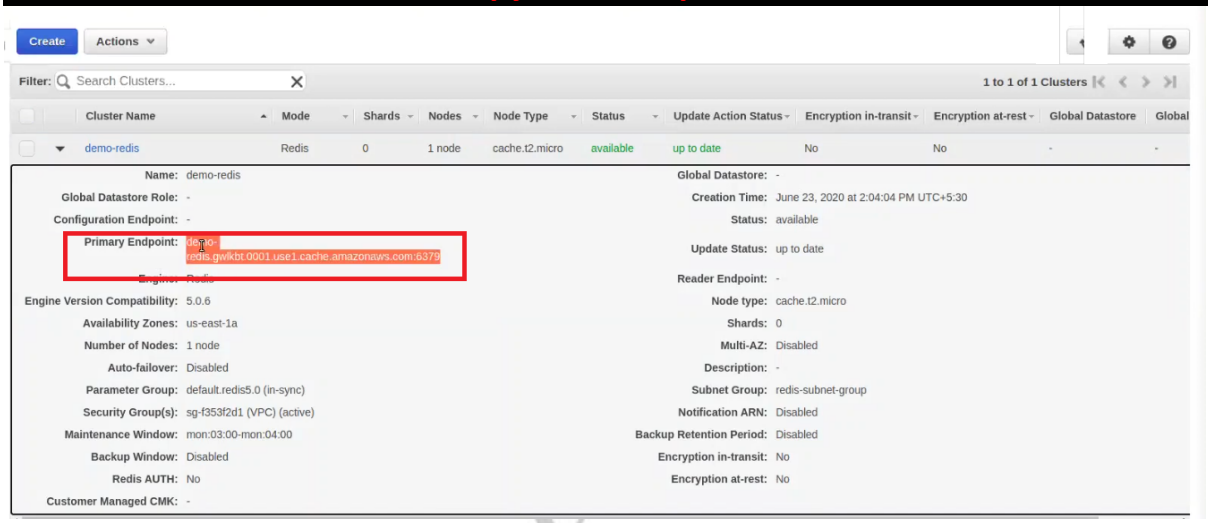
Update apt

```
ubuntu@ip-172-31-55-155:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 k
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6
Get:4 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
```

Install redis

```
ubuntu@ip-172-31-55-155:~$ sudo apt-get install redis
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libjemalloc1 redis-server redis-tools
Suggested packages:
  ruby-redis
```

Copy redis endpoint



Paste here see connected

```
ubuntu@ip-172-31-55-155:~$ redis-cli -h demo-redis.gwlkbt.0001.use1.cache.amazonaws.com -p 6379
demo-redis.gwlkbt.0001.use1.cache.amazonaws.com:6379>
```

See successfully cache store

```
demo-redis.gwlkbt.0001.use1.cache.amazonaws.com:6379> set name prabhakar
OK
demo-redis.gwlkbt.0001.use1.cache.amazonaws.com:6379> get name
"prabhakar"
demo-redis.gwlkbt.0001.use1.cache.amazonaws.com:6379> set city pune
OK
demo-redis.gwlkbt.0001.use1.cache.amazonaws.com:6379> set pin 123
OK
demo-redis.gwlkbt.0001.use1.cache.amazonaws.com:6379> set mobile 321
OK
demo-redis.gwlkbt.0001.use1.cache.amazonaws.com:6379> keys *
1) "mobile"
2) "pin"
3) "city"
4) "name"
demo-redis.gwlkbt.0001.use1.cache.amazonaws.com:6379>
```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