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O. Srikanth

ADC-19CS3234R 2021-22 Even S x ALGS Split 1 Playoffs NA Final C x ElastiCache Management Consol x +

console.aws.amazon.com/elasticache/home?region=us-east-1#

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ElastiCache Dashboard

- Memcached
- Redis
- Global Datastore
- Service Updates
- Reserved Nodes
- Backups
- Parameter Groups
- User Management
- User Group Management
- Subnet Groups
- Events
- ElastiCache Cluster Client

ElastiCache


ElastiCache is a web service that makes it easier to launch, manage, and scale a distributed in-memory cache in the cloud.

[Get Started Now](#)




Launch a Cluster

Create Clusters with just a few clicks. You can choose either Memcached or Redis as the engine software for this cluster.



Connect

Once you have authorized access to the Cluster and it is in the available state, you can log into an EC2 Instance and connect it to a Node in the cluster.



Manage

Using the AWS Management Console, you can easily add resources, modify configuration and monitor nodes of your ElastiCache environment to meet your applications requirements.

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console.aws.amazon.com/elasticache/home?region=us-east-1#create-cluster:ct=memcached:

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Create your Amazon ElastiCache cluster

Cluster engine

☒ **Redis**
In-memory data structure store used as database, cache and message broker. ElastiCache for Redis offers Multi-AZ with Auto-Failover and enhanced robustness.
☐ Cluster Mode enabled

☐ **Memcached**
High-performance, distributed memory object caching system, intended for use in speeding up dynamic web applications.

Location

Choose a location

☒ **Amazon Cloud**
Use Amazon's cloud for your ElastiCache instances

☐ **On-Premises**
Create your ElastiCache instances on AWS Outposts. You need to create a subnet ID on an Outpost first.

Redis settings

Ensure you have reviewed the five workload characteristics to consider when right sizing Amazon ElastiCache Redis clusters. [Learn more](#)

Name LAB-REDIS

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console.aws.amazon.com/elasticache/home?region=us-east-1#create-cluster:ct=memcached:

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console.aws.amazon.com/elasticache/home?region=us-east-1#create-cluster:ct=memcached

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Subnet group Create new

Name my-subnet-group

Description Description

VPC ID vpc-0663495624e12a0a5

Subnets

Subnet ID	Availability zone	CIDR Block
<input type="checkbox"/> subnet-07b5ef63f2293d5e9	us-east-1b	172.31.32.0/20
<input checked="" type="checkbox"/> subnet-0bc13cfff0b6ac9ce	us-east-1d	172.31.80.0/20
<input checked="" type="checkbox"/> subnet-0bebe05f968e6d01f	us-east-1c	172.31.0.0/20
<input type="checkbox"/> subnet-0c258fe9d81532fef	us-east-1f	172.31.64.0/20
<input type="checkbox"/> subnet-050e72727024abbb	us-east-1a	172.31.16.0/20
<input type="checkbox"/> subnet-03444e1b178d0ef71	us-east-1e	172.31.48.0/20

Availability zones placement ☒ No preference ☐ Select zones

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console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance familiesCurrent generationShow/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t3	t3.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes

Cancel

Previous

Review and Launch

Next: Configure Instance Details

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console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

awsServicesSearch

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group
☐ Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Anywhere 0.0.0.0/0, :::0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Anywhere 0.0.0.0/0, :::0	e.g. SSH for Admin Desktop
HTTPS	TCP	443	Anywhere 0.0.0.0/0, :::0	e.g. SSH for Admin Desktop

[Add Rule](#)

Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

[Cancel](#)[Previous](#)[Review and Launch](#)

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The screenshot shows the AWS Management Console interface for EC2 Instances. The browser address bar indicates the URL is `console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:`. The console header includes the AWS logo, a search bar, and user information for 'N. Virginia' and 'srikanth obinindi'.

Instances (1) Info

Search

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
<input type="checkbox"/>	-	i-0e0f45fef11b793ef	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	ec2-52-72-146-1

Select an instance

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PRACS.pem Show all

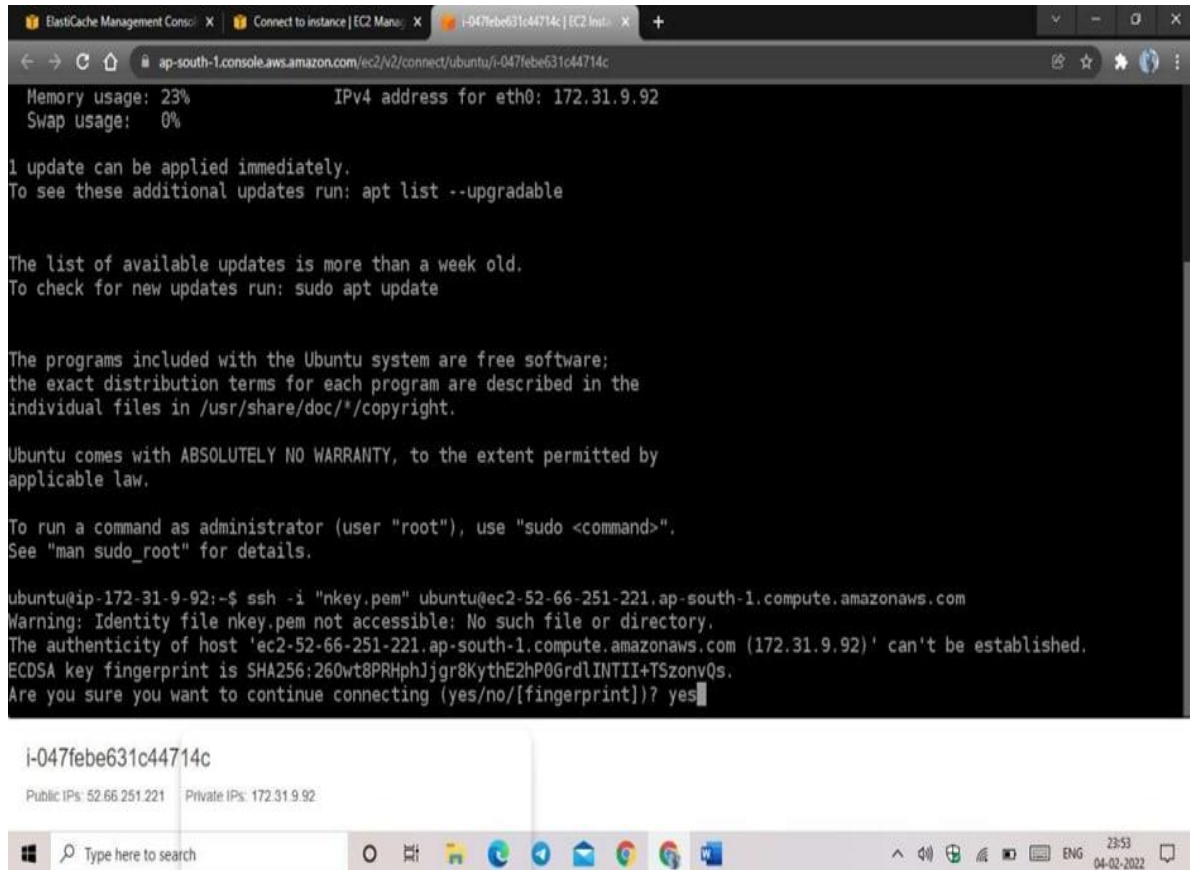
Type here to search 22°C 10:56 PM 06-02-2022

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The screenshot shows the AWS Management Console interface for the ElastiCache service. The left-hand navigation pane is visible, with 'Redis' selected under the 'ElastiCache Dashboard' section. The main content area displays a table of Redis clusters. A single cluster named 'lab-redis' is listed with the following details: Mode: Redis, Shards: 0, Nodes: 1 node, Node Type: cache.t2.micro, Status: available, Update Action Status: up to date, Logs Status: disabled, Encryption in-transit: No, and Encryption at-rest: No. The table has a search filter at the top and a table header with columns for Cluster Name, Mode, Shards, Nodes, Node Type, Status, Update Action Status, Logs Status, Encryption in-transit, and Encryption at-rest.

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The screenshot shows a terminal window within the AWS Management Console. The terminal displays the following text:

```
Memory usage: 23%          IPv4 address for eth0: 172.31.9.92
Swap usage: 0%

1 update can be applied immediately.
To see these additional updates run: apt list --upgradable

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

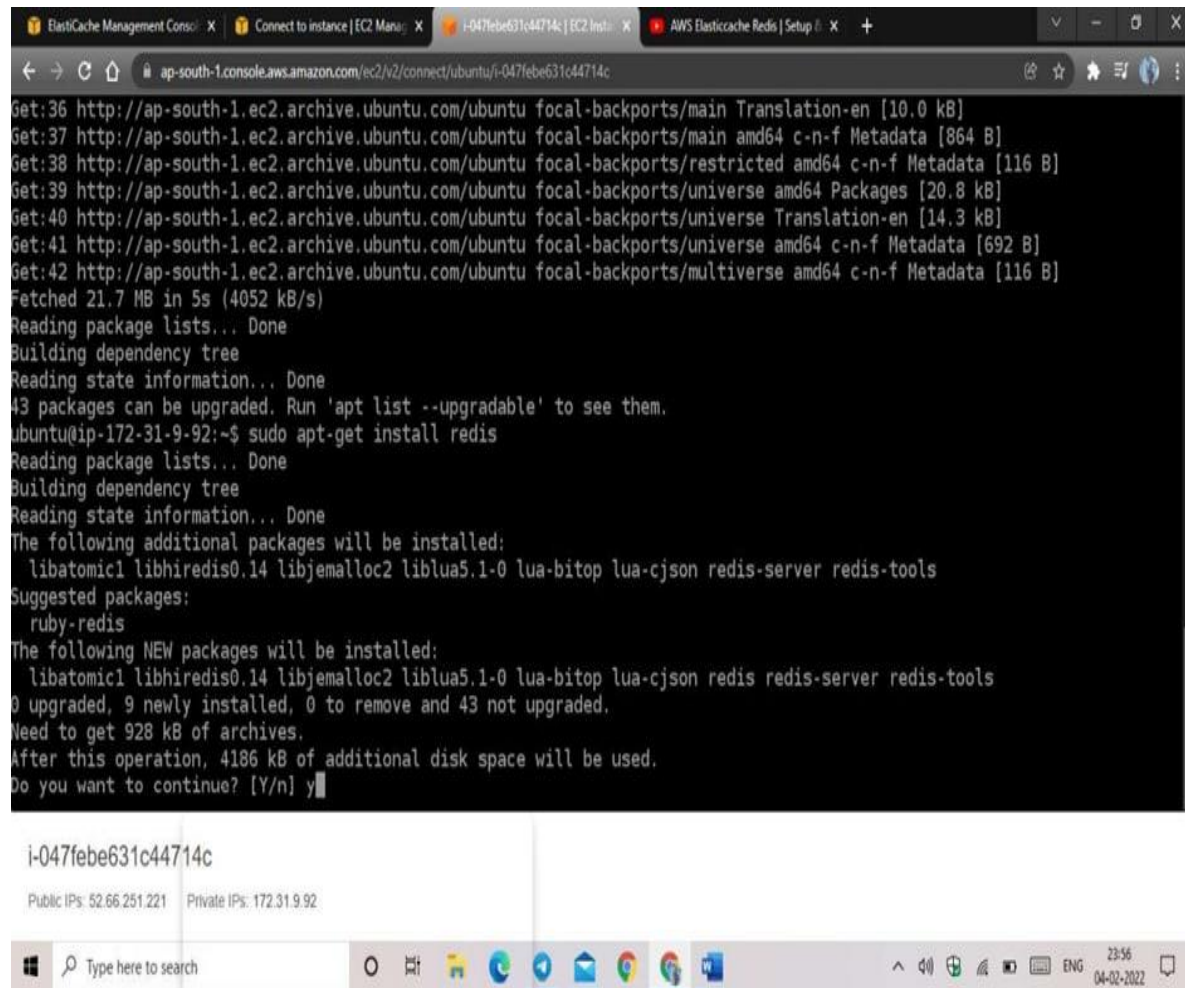
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-9-92:~$ ssh -i "nkey.pem" ubuntu@ec2-52-66-251-221.ap-south-1.compute.amazonaws.com
Warning: Identity file nkey.pem not accessible: No such file or directory.
The authenticity of host 'ec2-52-66-251-221.ap-south-1.compute.amazonaws.com (172.31.9.92)' can't be established.
ECDSA key fingerprint is SHA256:260wt8PRHphljgr8KythE2hP0GrdlINTII+TSzonvQs.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
```

Below the terminal window, the instance details for `i-047febe631c44714c` are shown, including Public IP: 52.66.251.221 and Private IP: 172.31.9.92.

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The screenshot shows a terminal window within the AWS Management Console, connected to an EC2 instance named 'i-047febe631c44714c'. The terminal output shows the process of updating the package list and installing Redis. The user runs 'sudo apt-get install redis', and the system lists additional packages to be installed along with Redis. The installation is confirmed by typing 'y' at the prompt.

```
Get:36 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main Translation-en [10.0 kB]
Get:37 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 c-n-f Metadata [864 B]
Get:38 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/restricted amd64 c-n-f Metadata [116 B]
Get:39 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [20.8 kB]
Get:40 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe Translation-en [14.3 kB]
Get:41 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Metadata [692 B]
Get:42 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c-n-f Metadata [116 B]
Fetched 21.7 MB in 5s (4052 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
43 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-9-92:~$ sudo apt-get install redis
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  libatomic1 libhiredis0.14 libjemalloc2 liblua5.1-0 lua-bitop lua-cjson redis-server redis-tools
Suggested packages:
  ruby-redis
The following NEW packages will be installed:
  libatomic1 libhiredis0.14 libjemalloc2 liblua5.1-0 lua-bitop lua-cjson redis redis-server redis-tools
0 upgraded, 9 newly installed, 0 to remove and 43 not upgraded.
Need to get 928 kB of archives.
After this operation, 4186 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
```

i-047febe631c44714c

Public IPs: 52.66.251.221 Private IPs: 172.31.9.92

Type here to search

23:56 04-02-2022