

AWS MODULE

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SUBMITTED TO- MR. VIKUL SIR

BATCH NO – SA2409031

DATE – 25/10/2024

L4 - Connect to the AWS EC2 Ubuntu Instance and Update default packages, install JDK, Maven, Git, and validate the versions

- **Step 1: Connect to Your EC2 INSTANCE**

1. Navigate to ec2 service
2. Select ubuntu server
3. Add key pair
4. Add security group
5. Launch the server
6. Connect to the server

- **Step 2: Update Default Packages**

1. Update the package -y

sudo apt update

- **Step 3: Install JDK**

1. Install java

sudo apt install openjdk-17-jdk -y

2. Verify the java version

java -version

- **Step 4: Install Maven**

1. Install Maven

sudo apt install maven -y

2. Verify the installation:

mvn -version

- **Step 5: Install Git**

1. Install Git:

sudo apt install git -y

2. Verify the git version

git --version

- LAUNCHED THE INSTANCE

aws

Services

Search

[Alt+S]

Mumbai

ADESH ADHAV

EC2

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations

Images

AMIs

Instances (1/1) Info

Last updated less than a minute ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

Instance ID = i-061e589dc78851900

Clear filters

< 1 >

☒

Name

☒

sss

☒

Instance ID

☒

i-061e589dc78851900

☒

Instance state

☒

Running

☒

Instance type

☒

t2.micro

☒

Status check

☒

2/2 checks passed

☒

Alarm status

☒

View alarms

i-061e589dc78851900 (sss)

Details

Status and alarms

Monitoring

Security

Networking

Storage

Tags

Instance summary Info

Instance ID

i-061e589dc78851900

Public IPv4 address

3.110.176.52 | open address

Private IPv4 addresses

172.31.3.88

IPv6 address

Instance state

Running

Public IPv4 DNS

CloudShell

Feedback

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Services

Search

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ADESH ADHAV

EC2

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations

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AMIs

Instances (1/1) Info

Last updated 1 minute ago

Connect

Instance state

Actions

Launch instances

Find Instance by attribute or tag (case-sensitive)

All states

Instance ID = i-061e589dc78851900

Clear filters

< 1 >

☒

Name

☒

sss

☒

Instance ID

☒

i-061e589dc78851900

☒

Instance state

☒

Running

☒

Instance type

☒

t2.micro

☒

Status check

☒

2/2 checks passed

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Instance summary Info

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Filter rules

< 1 >

Name	Security group rule ID	Port range	Protocol	Source
-	sgr-089fd24d72d12ef4a	8080	TCP	0.0.0.0/0
-	sgr-0b4e93e9df40dfd1a	22	TCP	0.0.0.0/0

- **CONNECTED TO THE INSTANCE**

aws

Services

Q Search

[Alt+S]

EC2

System load: 0.0

Usage of /: 30.9% of 7.57GB

Memory usage: 25%

Swap usage: 0%

Processes: 103

Users logged in: 1

IPv4 address for eth0: 172.31.3.88

Expanded Security Maintenance for Applications is not enabled.

20 updates can be applied immediately.

18 of these updates are standard security updates.

To see these additional updates run: apt list --upgradable

2 additional security updates can be applied with ESM Apps.

Learn more about enabling ESM Apps service at <https://ubuntu.com/esm>

New release '24.04.1 LTS' available.

Run 'do-release-upgrade' to upgrade to it.

Last login: Fri Oct 25 14:56:57 2024 from 13.233.177.3

ubuntu@ip-172-31-3-88:~\$

i-061e589dc78851900 (sss)

PublicIPs: 3.110.176.52 PrivateIPs: 172.31.3.88

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- **UPGRATED THE PACKAGE**

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EC2

New release '24.04.1 LTS' available.

Run 'do-release-upgrade' to upgrade to it.

Last login: Fri Oct 25 15:12:37 2024 from 13.233.177.5

ubuntu@ip-172-31-3-88:~\$ sudo apt update

Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease

Get:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]

Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease

Hit:4 http://security.ubuntu.com/ubuntu jammy-security InRelease

Get:5 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2112 kB]

Get:6 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Package s [1133 kB]

Fetch 3373 kB in 1s (2911 kB/s)

Reading package lists... Done

Building dependency tree... Done

Reading state information... Done

15 packages can be upgraded. Run 'apt list --upgradable' to see them.

ubuntu@ip-172-31-3-88:~\$

i-061e589dc78851900 (sss)

PublicIPs: 3.110.176.52 PrivateIPs: 172.31.3.88

- INSTALLED THE JAVA VERSION

aws

Services

EC2

Q

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Mumbai ▾

ADESH ADHAV

```
ubuntu@ip-172-31-3-88:~$ java --version
openjdk 17.0.12 2024-07-16
OpenJDK Runtime Environment (build 17.0.12+7-Ubuntu-1ubuntu222.04)
OpenJDK 64-Bit Server VM (build 17.0.12+7-Ubuntu-1ubuntu222.04, mixed mode, sharing)
ubuntu@ip-172-31-3-88:~$
```

i-061e589dc78851900 (sss)

PublicIPs: 3.110.176.52 PrivateIPs: 172.31.3.88

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- **INSTALLED THE MAVEN**

```
aws Services Mumbai ADESH ADHAV
EC2
ubuntu@ip-172-31-3-88:~$ mvn -version
Apache Maven 3.6.3
Maven home: /usr/share/maven
Java version: 17.0.12, vendor: Ubuntu, runtime: /usr/lib/jvm/java-17-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "6.8.0-1015-aws", arch: "amd64", family: "unix"
ubuntu@ip-172-31-3-88:~$
```

i-061e589dc78851900 (sss) X
PublicIPs: 3.110.176.52 PrivateIPs: 172.31.3.88

- **INSTALLED THE GIT**

```
aws Services Mumbai ADESH ADHAV
EC2
ubuntu@ip-172-31-3-88:~$ java --version
openjdk 17.0.12 2024-07-16
OpenJDK Runtime Environment (build 17.0.12+7-Ubuntu-lubuntu222.04)
OpenJDK 64-Bit Server VM (build 17.0.12+7-Ubuntu-lubuntu222.04, mixed mode, sharing)
ubuntu@ip-172-31-3-88:~$ sudo apt install git -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-lubuntu1.11).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 15 not upgraded.
ubuntu@ip-172-31-3-88:~$ git --version
git version 2.34.1
ubuntu@ip-172-31-3-88:~$
```

i-061e589dc78851900 (sss) X
PublicIPs: 3.110.176.52 PrivateIPs: 172.31.3.88

THANK YOU