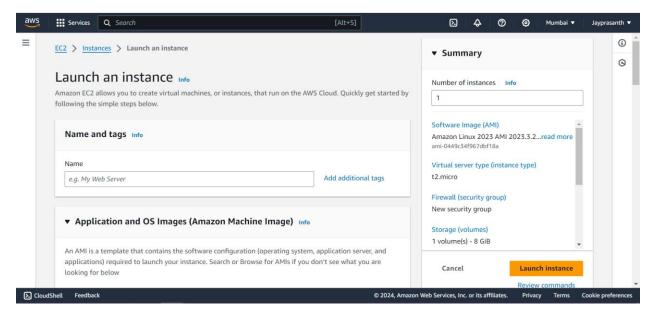
Jenkins Implementation

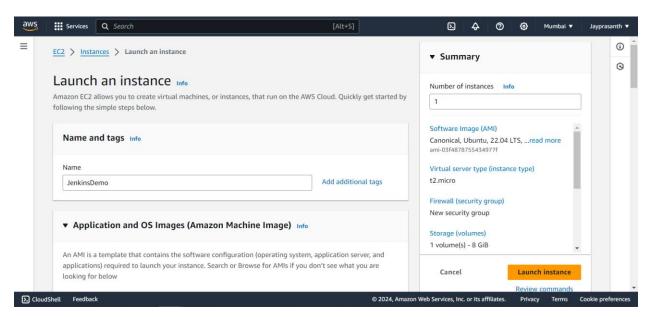
Name: Jayprasanth S

Ace ID: ACE11697

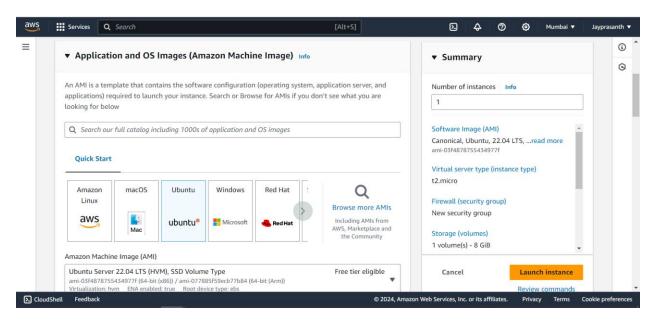
1. I create aws instance to demo run of Jenkins



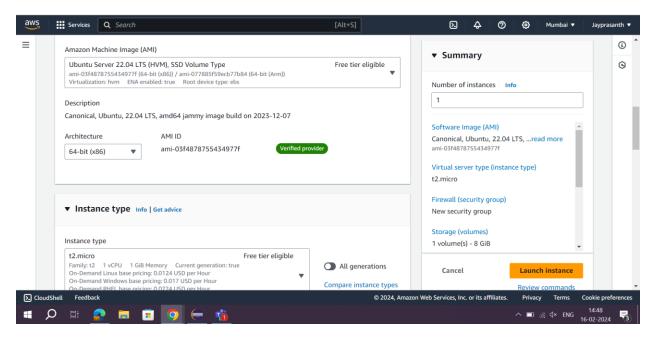
2. Give name of our instance



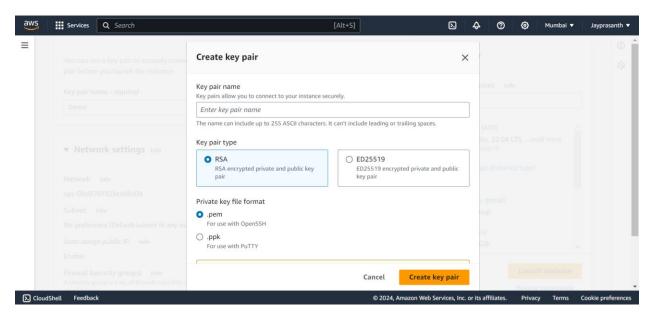
3. Choose which OS we want like ubuntu



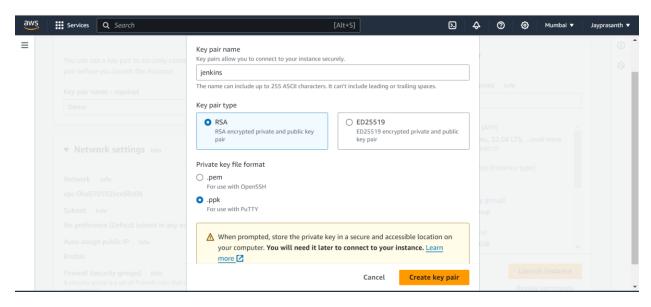
4. Choose which architecture we want and instance type



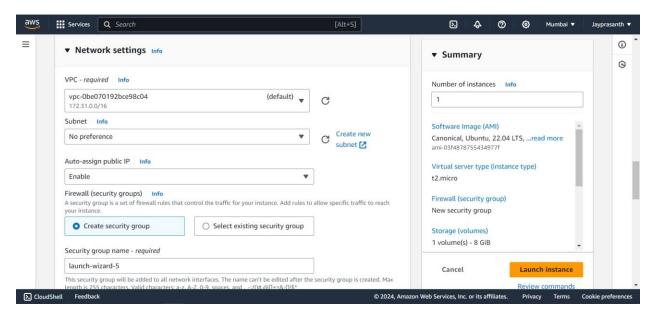
5. Create key pair



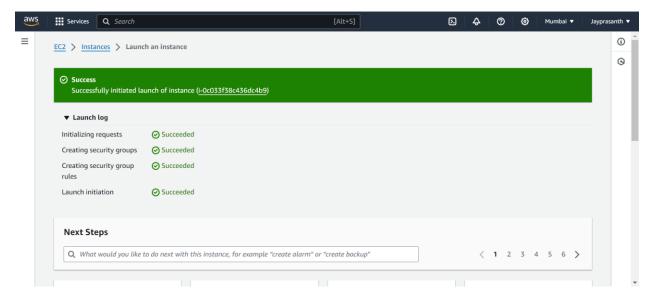
6. Choose RSA and .ppk



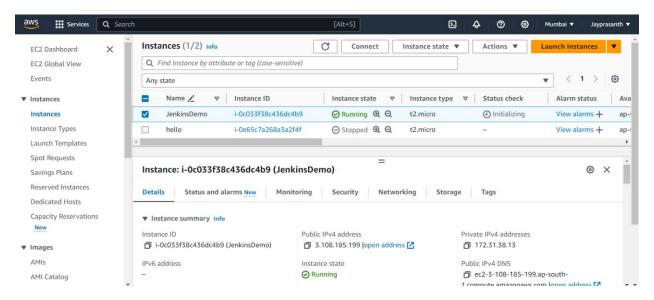
7. Edit network, to give all TCP



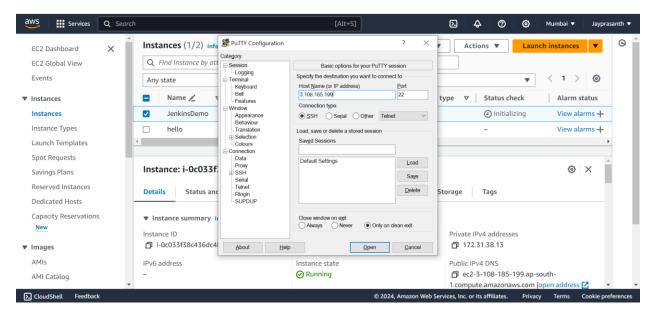
8. It successfully launched.



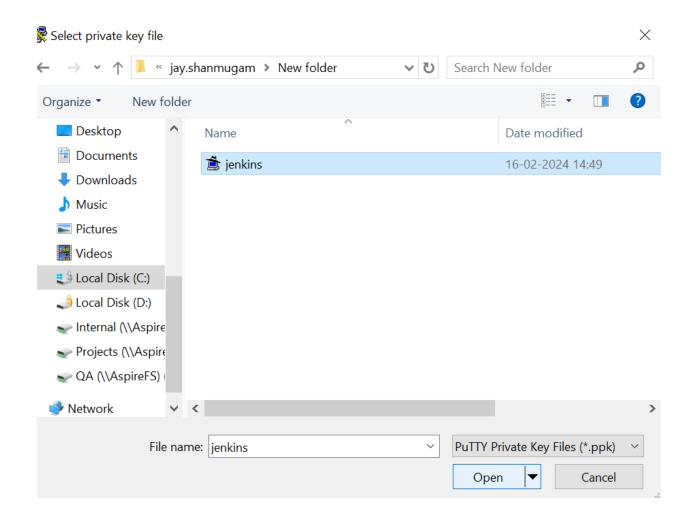
9. Select the instance and click connect for aws console

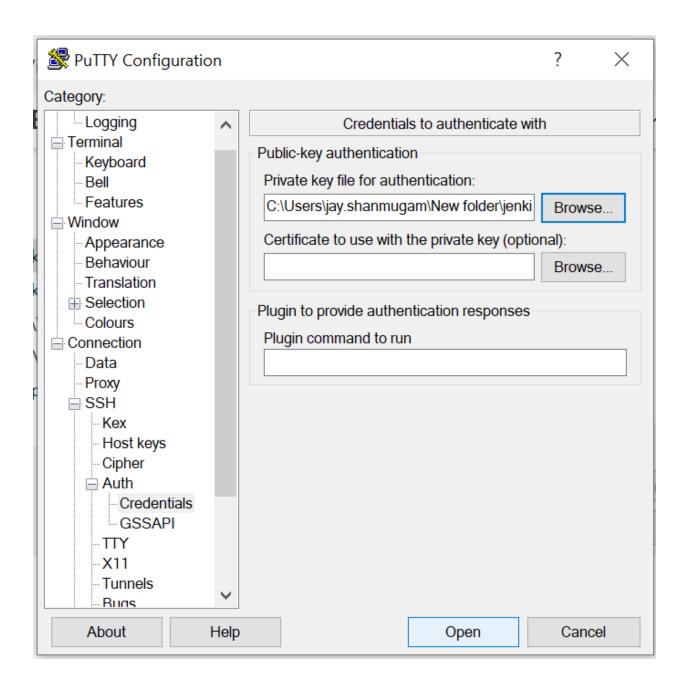


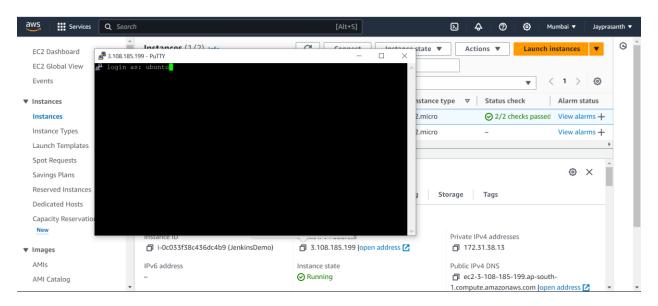
10. Open putty, and paste the public ip of instance.



11. Choose key pair to connect







14. sudo wget -0 /usr/share/keyrings/jenkins-keyring.asc \
 https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key

```
whentubip-172-31-38-13.-

Plogin as: whentu
Plog
```

16. echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
 https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
 /etc/apt/sources.list.d/jenkins.list > /dev/null

```
ubuntu@ip-172-31-38-13:~$ echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
/etc/apt/sources.list.d/jenkins.list > /dev/null
```

17. sudo apt-get update

```
Get: http://ap-south-1.ec.archive.ubuntu.com/ubuntu jammy-mpdates InRelease [119 kB]

Get: http://ap-south-1.ec.archive.ubuntu.com/ubuntu jammy-mpdates InRelease [109 kB]

Ign: https://pkg.jenkins.io/debian-stable binary/ Release [204 kB]

Get: https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 kB]

Get: https://pkg-outh-i.ec/archive.ubuntu.com/ubuntu jammy/mulverse and file for the file file for the file for t
```

19. sudo apt install fontconfig openjdk-17-jre

```
ubuntu@ip-172-31-38-13:~$ sudo apt update
Hit: http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit: http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit: http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit: https://pkg-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Ign: https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit: https://pkg.jenkins.io/debian-stable binary/ Release
Hit: https://pkg.jenkins.io/debian-stable binary/ InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Reading state information... Done
Reading state information... Done
Building dependency tree... Done
Bu
```

20. java -version

```
No VM guests are running outdated hypervisor (qemu) binaries on this host. ubuntu@ip-172-31-38-13:~$ java -version openjdk version "17.0.9" 2023-10-17 OpenJDK Runtime Environment (build 17.0.9+9-Ubuntu-122.04) OpenJDK 64-Bit Server VM (build 17.0.9+9-Ubuntu-122.04, mixed mode, sharing) ubuntu@ip-172-31-38-13:~$
```

21. sudo apt-get install jenkins

```
ubuntu@ip-172-31-38-13:~$ sudo apt-get install jenkins
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
    net-tools
The following NEW packages will be installed:
    jenkins net-tools
0 upgraded, 2 newly installed, 0 to remove and 74 not upgraded.
Need to get 89.2 MB of archives.
After this operation, 90.4 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

22. sudo systemctl enable jenkins

```
Bo WW guests are numning outdated hypervisor (qemm) binaries on this host.

Bo WW guests are numning outdated hypervisor (qemm) binaries on this host.

Bo WW guests are numning outdated hypervisor (qemm) binaries on this host.

Bo WW guests are numning outdated binaries.

Bo WW guests are numning outdated binaries.

Bo WW guests are numning outdated binaries.

Wo Services need to be restarted.

No containers need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No WW guests are running outdated binaries.

No WW guests are running outdated binaries.

No WW guests are running outdated biparies.

No WW guests are running outdated biparies.

No WW guests are running outdated biparies.

No WW guests are running outdated biparies out his host.

Woutdated when the service output outp
```

23. sudo systemctl start jenkins

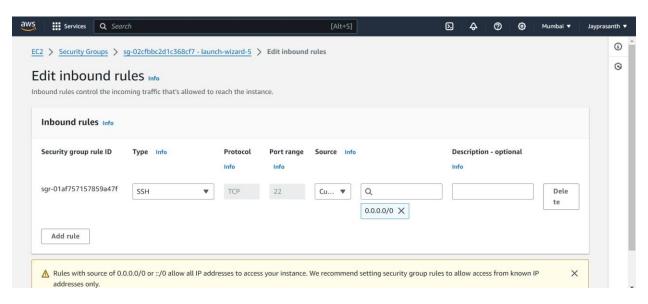
```
ubuntu@ip-172-31-38-13:~$ sudo systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable jenkins
ubuntu@ip-172-31-38-13:~$
```

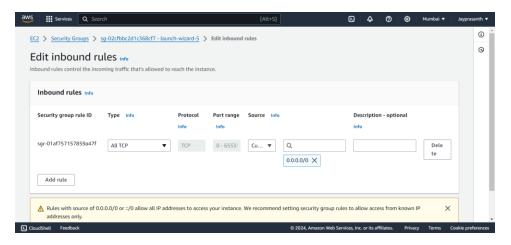
24. sudo systemctl status jenkins

```
ubuntu@ip-172-31-38-13:~$ sudo systemctl start jenkins ubuntu@ip-172-31-38-13:~$ sudo systemctl status jenkins
```

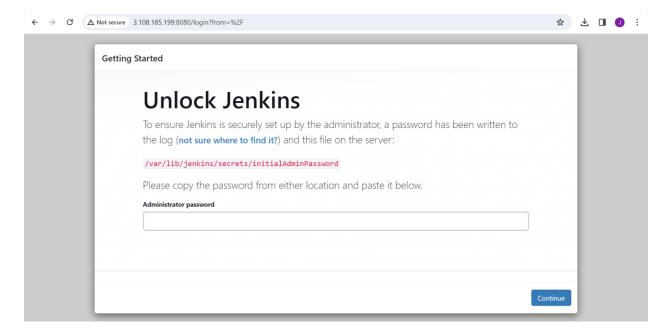
25. It installed successfully

26.





28. Run it in browser



```
Concated spulin /etc/systems/systems/multi-user.target.vants/jenkins.service - /lib/systems/system/jenkins.service.

Processing triggers for man-db (2.10.2-1) ...

Scanning linux images...

Eunning kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No containers need to be restarted.

No vM quests are running outdated binaries.

No VM quests are running outdated hypervisor (gemu) binaries on this host.

**ubuntuilsp-172-31-38-313-5 guide systems(l eable jenkins

Synchronizing state of jenkins.service with Syst service script with /lib/systems/systems-sysv-install.

**Executing: /lib/systems/systems-sysv-install enable jenkins

Synchronizing state of jenkins.service with Syst service script with /lib/systems/systems-sysv-install.

**Executing: /lib/systems/systems-sysv-install enable jenkins

Synchronizing state of jenkins.service with Syst service script with /lib/systems/systems-sysv-install.

**Executing: /lib/systems/systems-sysv-install enable jenkins

Synchronizing state of jenkins.service with Syst service script with /lib/systems/systems-sysv-install.

**Executing: /lib/systems/systems-listsus jenkins

Synchronizing state of jenkins.service - denkins

**Installation of jenkins systems-listsus jenkins

**Synchronizing state of jenkins.service - denkins continuous integration Server

Loaded: loaded (/lib/systems/systems/jenkins.service: enabled)

**Active: active (running) since Fri 2024-02-16 09:41:18 UTC: lmin 14s ago

**Nainto: 38 (fautus)

**Memory: 304.88

**CFU: 41.6058

**CGroup: Systems-lise/jenkins.service

- 5117 /usr/bin/java -0]avas.ast.headless=true -jar /usr/shate/java/jenkins.war --webroot-/var/cache/jenkins/war --httpFort-8080

**Feb 16 09:40:46 1p-172-31-38-31 jenkins[5117]: 5048ec09Fba4edeb2ad6a794145bCfb

Feb 16 09:40:46 1p-172-31-38-31 jenkins[5117]: 5048ec09Fba4edeb2ad6a794145bCfb

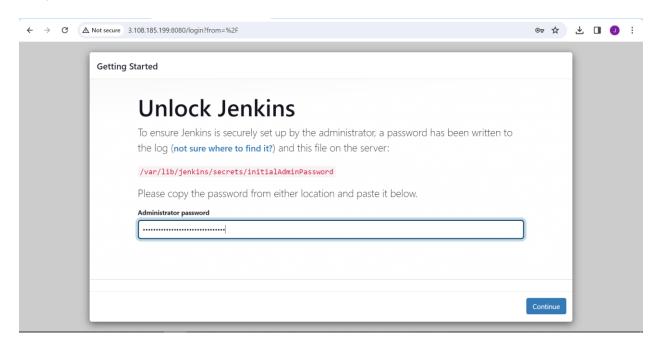
Feb 16 09:40:46 1p-172-31-38-31 jenkins[5117]: 5048ec09Fba4edeb2ad6a794145bCfb

Feb 16 09:40:46 1p-172-31-38-31 jenkins[5117]: 5048ec09Fba4edeb2ad6a794415
```

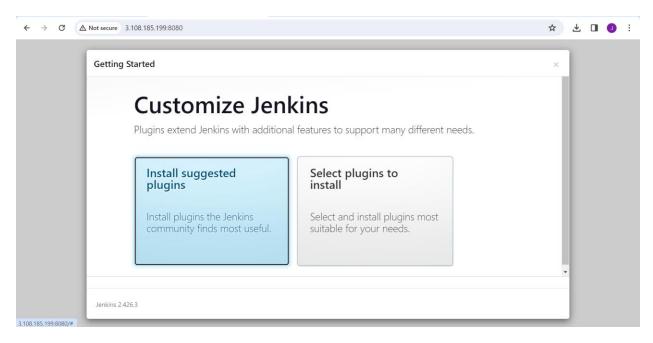
30.

ubuntu@ip-172-31-38-13:~\$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword 90d9ec0987ba4e4cb2ad6a784143bf7b ubuntu@ip-172-31-38-13:~\$

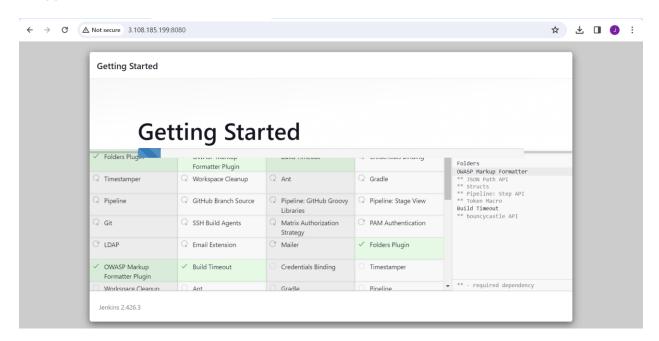
31.



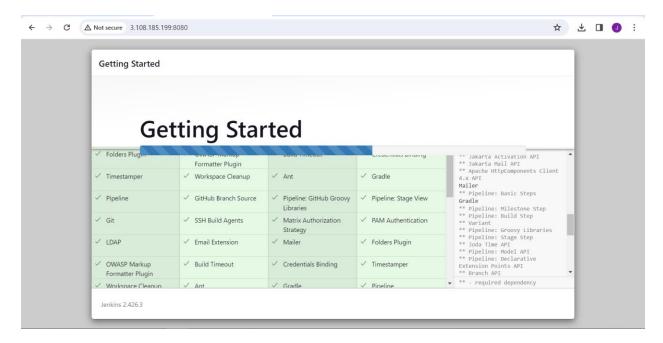
32. Select Install suggested plugins



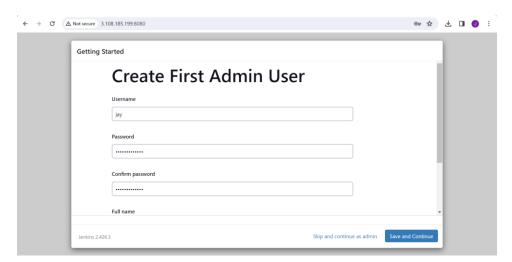
33.

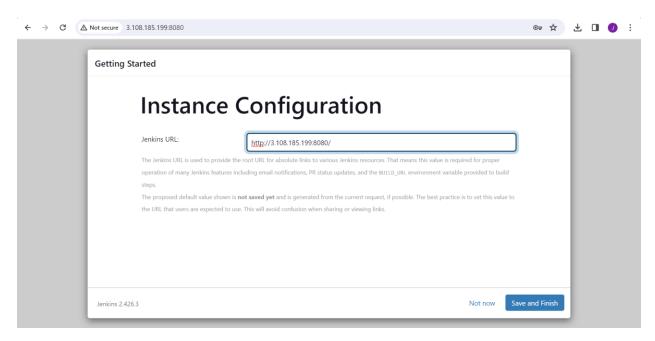


34. It installed

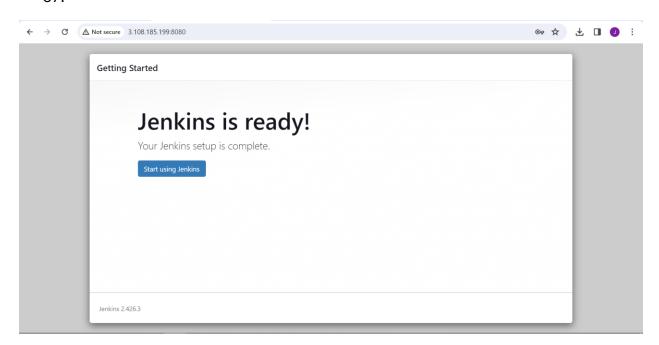


35. Give new admin user





37.



38. Page of Jenkins

