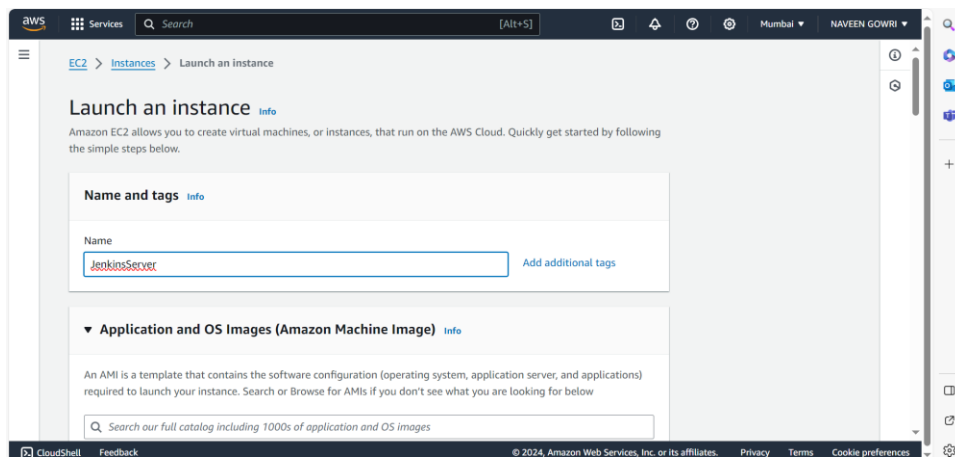
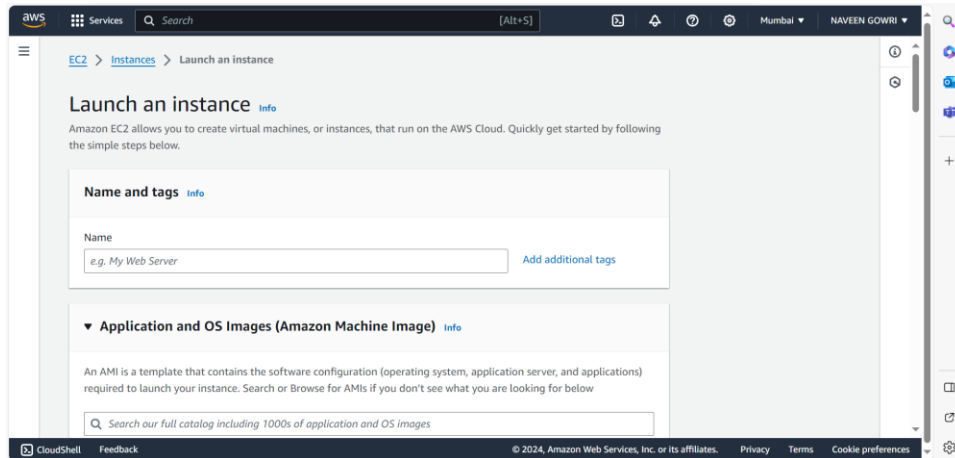


# Jenkins Demo

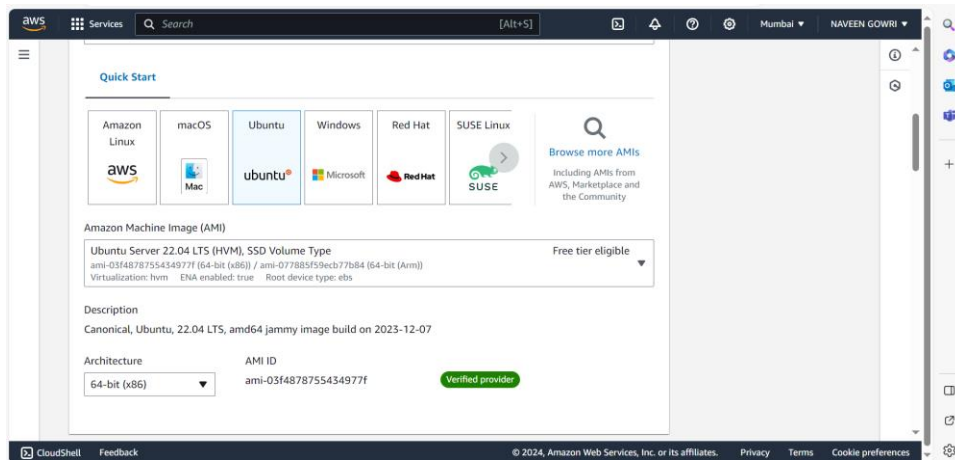
Naveen G

ACE11699

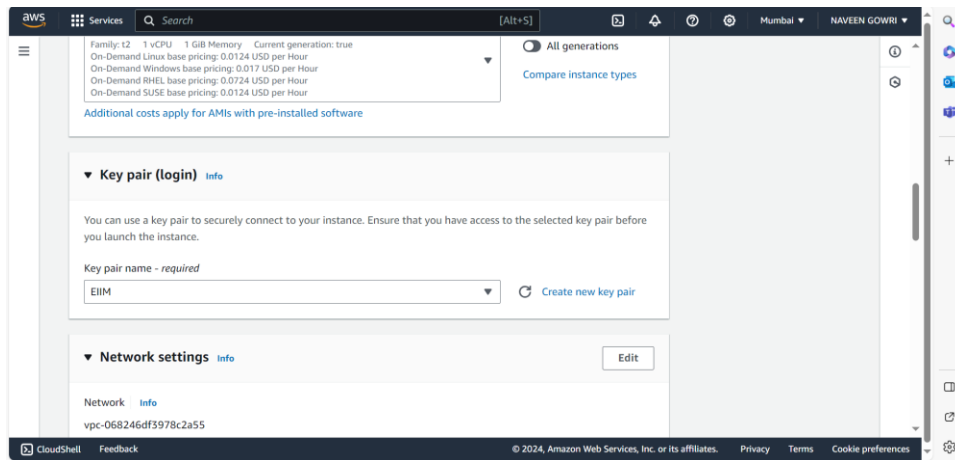
- Go to AWS console and search for

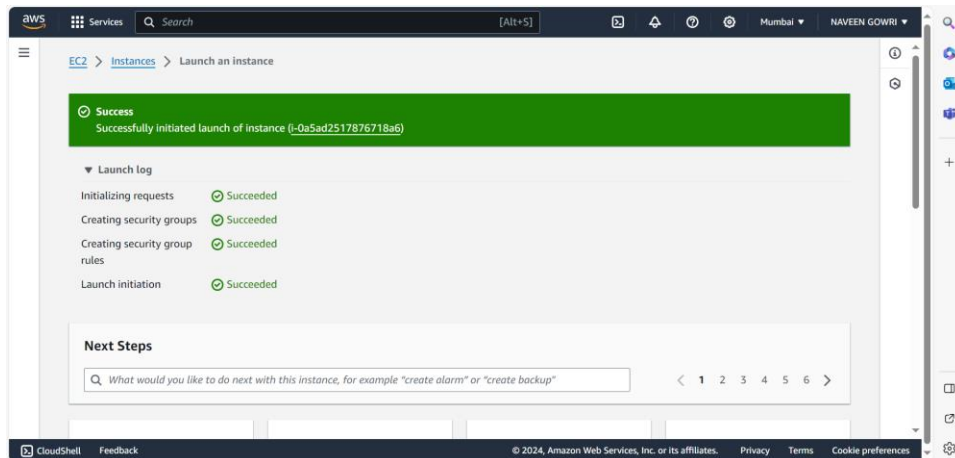
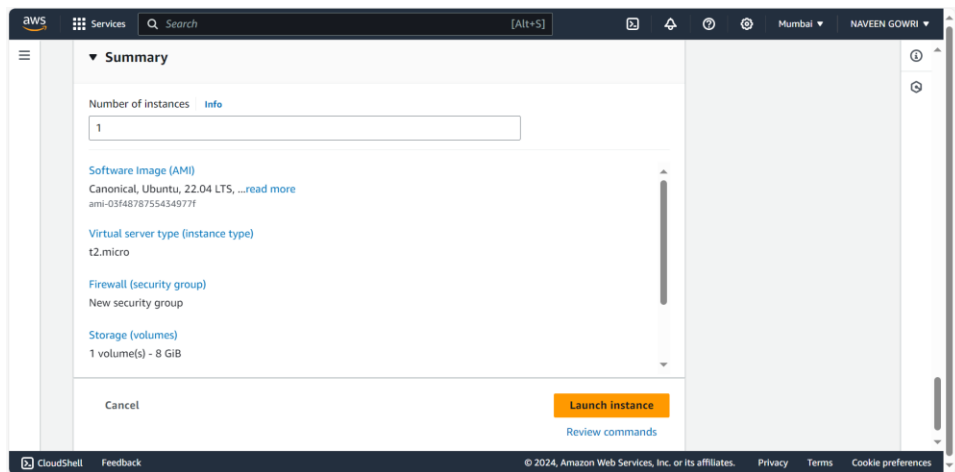


- Name your instance and select the Instances OS

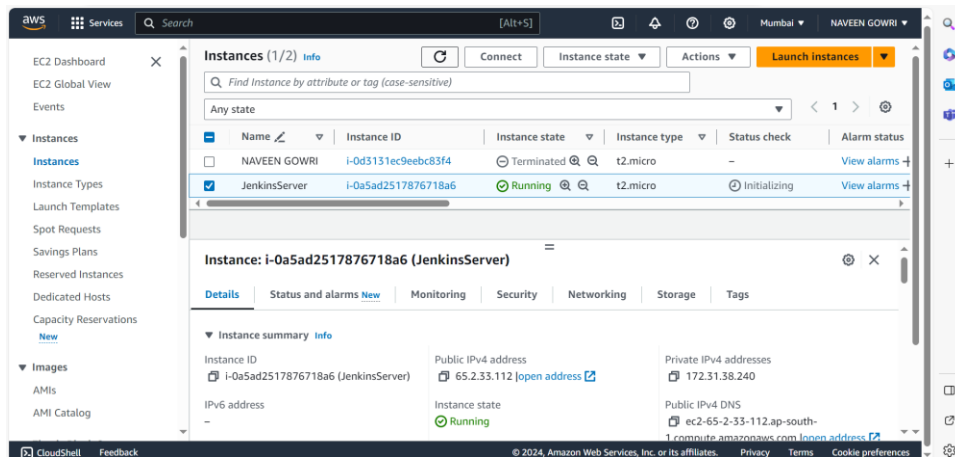


Create the key pair for accessing the instance

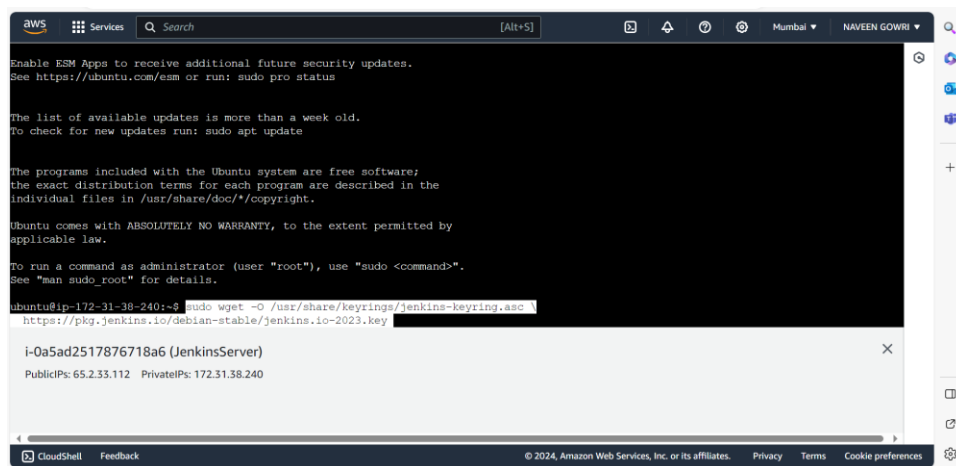
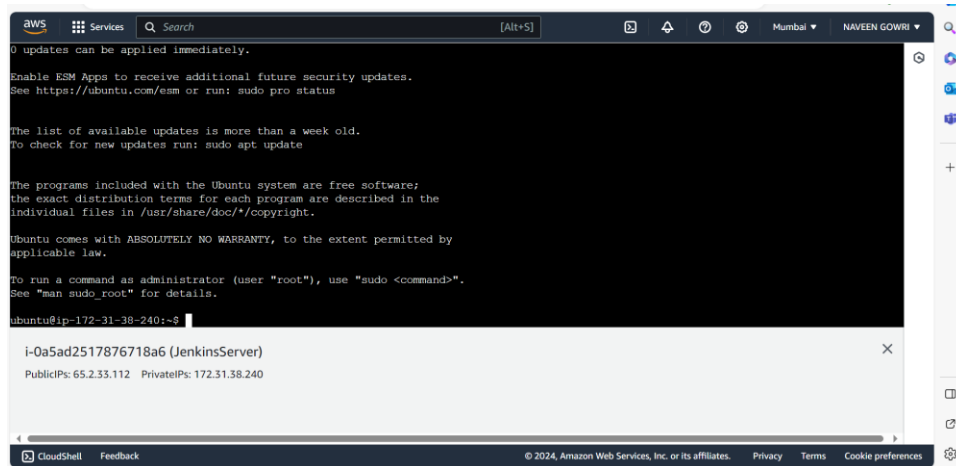
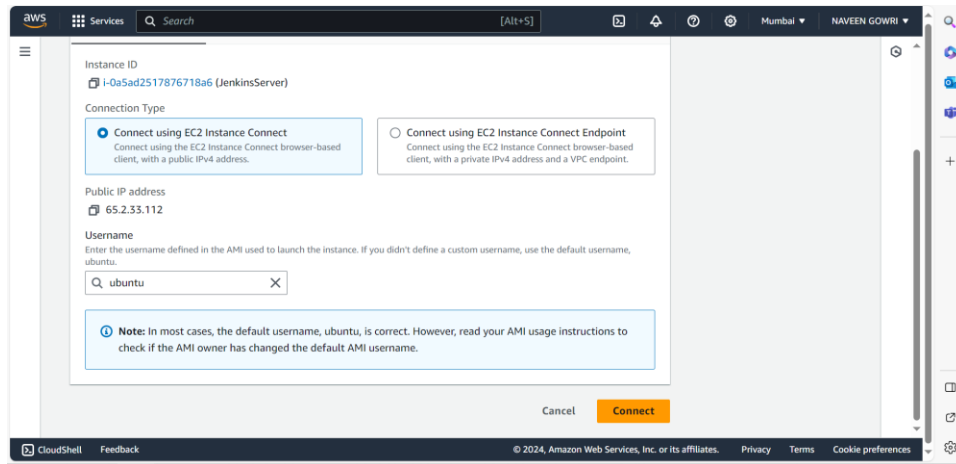




After the select edit the option in network setting to Customize the inbound SG rules type as ssh to all TCP



We can view this web page and we can select the connect option to connect with the instance.



```
aws Services Search [Alt+S] Mumbai NAVEEN GOWRI
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-38-240:~$ sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
--2024-02-16 08:37:39-- https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
Resolving pkg.jenkins.io (pkg.jenkins.io)... 151.101.154.133, 2a04:4e42:24::645
Connecting to pkg.jenkins.io (pkg.jenkins.io)|151.101.154.133|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3175 (3.1K) [application/pgp-key]
Saving to: '/usr/share/keyrings/jenkins-keyring.asc'

/usr/share/keyrings/jenkins-keyring 100%[=====] 3.10K --.-KB/s in 0s

2024-02-16 08:37:39 (29.6 MB/s) - '/usr/share/keyrings/jenkins-keyring.asc' saved [3175/3175]

ubuntu@ip-172-31-38-240:~$ 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

i-0a5ad2517876718a6 (JenkinsServer)
PublicIPs: 65.2.33.112 PrivateIPs: 172.31.38.240
```

```
aws Services Search [Alt+S] Mumbai NAVEEN GOWRI
/etc/apt/sources.list.d/jenkins.list > /dev/null

ubuntu@ip-172-31-38-240:~$ sudo apt-get 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 [119 kB]
Get:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [109 kB]
Ign:4 https://pkg.jenkins.io/debian-stable binary/ InRelease
Get:5 https://pkg.jenkins.io/debian-stable binary/ Release [2044 B]
Get:6 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Get:7 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:8 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:9 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:10 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:11 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:12 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:13 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:14 https://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [1377 kB]
Get:15 https://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [273 kB]
Get:16 https://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [1431 kB]
Get:17 https://pkg.jenkins.io/debian-stable binary/ Packages [26.2 kB]
Get:18 https://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [235 kB]
Get:19 https://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1049 kB]
```

```
aws Services Search [Alt+S] Mumbai NAVEEN GOWRI
Get:25 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [41.7 kB]
Get:26 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [10.5 kB]
Get:27 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [388 B]
Get:28 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:29 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [24.3 kB]
Get:30 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:31 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [644 B]
Get:32 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [1161 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [213 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [1401 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [231 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [842 kB]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [161 kB]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.1 kB]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7476 B]
Get:42 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
Fetched 29.6 Mb in 6s (5002 kb/s)
Reading package lists... Done
ubuntu@ip-172-31-38-240:~$ sudo apt update
```

```
aws Services Search [Alt+S] Mumbai NAVEEN GOWRI
Get:36 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [231 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [842 kB]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [161 kB]
Get:39 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.0 kB]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.1 kB]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7476 B]
Get:42 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
Fetched 29.6 MB in 6s (5002 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-38-240:~$ sudo apt update
Hit:1 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease
Ign:4 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:5 https://pkg.jenkins.io/debian-stable binary/ Release
Hit:6 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
74 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-38-240:~$ sudo apt install fontconfig openjdk-17-jre

i-Oa5ad2517876718a6 (JenkinsServer)
PublicIPs: 65.233.112 PrivateIPs: 172.31.38.240
```

```
aws Services Search [Alt+S] Mumbai NAVEEN GOWRI
Running hooks in /etc/ca-certificates/update.d...
done.
Processing triggers for libgl1_2.0-0:amd64 (2.72.4-0ubuntu2.2) ...
Processing triggers for libc-bin (2.35-0ubuntu3.4) ...
Setting up at-spi2-core (2.44.0-3) ...
Processing triggers for libgdk-pixbuf-2.0-0:amd64 (2.42.8+dfsg-1ubuntu0.2) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-240:~$

i-Oa5ad2517876718a6 (JenkinsServer)
PublicIPs: 65.233.112 PrivateIPs: 172.31.38.240
```

```
aws Services Search [Alt+S] Mumbai NAVEEN GOWRI
Processing triggers for libgl1_2.0-0:amd64 (2.72.4-0ubuntu2.2) ...
Processing triggers for libc-bin (2.35-0ubuntu3.4) ...
Setting up at-spi2-core (2.44.0-3) ...
Processing triggers for libgdk-pixbuf-2.0-0:amd64 (2.42.8+dfsg-1ubuntu0.2) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-240:~$ 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-172-31-38-240:~$

i-Oa5ad2517876718a6 (JenkinsServer)
PublicIPs: 65.233.112 PrivateIPs: 172.31.38.240
```

```
Processing triggers for libgl1:amd64 (2.72.4-0ubuntu2.2) ...
Processing triggers for libc-bin (2.35-0ubuntu3.4) ...
Setting up at-spi2-core (2.44.0-3) ...
Processing triggers for libgdk-pixbuf-2.0-0:amd64 (2.42.0+dfsg-1ubuntu0.2) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-240:~$ 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-172-31-38-240:~$ sudo apt-get install jenkins
```

i-Oa5ad2517876718a6 (JenkinsServer)

PublicIPs: 65.233.112 PrivateIPs: 172.31.38.240

```
Unpacking net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Selecting previously unselected package jenkins.
Preparing to unpack .../jenkins_2.426.3_all.deb ...
Unpacking jenkins (2.426.3) ...
Setting up net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Setting up jenkins (2.426.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-240:~$
```

i-Oa5ad2517876718a6 (JenkinsServer)

PublicIPs: 65.233.112 PrivateIPs: 172.31.38.240

```
Unpacking net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Selecting previously unselected package jenkins.
Preparing to unpack .../jenkins_2.426.3_all.deb ...
Unpacking jenkins (2.426.3) ...
Setting up net-tools (1.60+git20181103.0eebece-1ubuntu5) ...
Setting up jenkins (2.426.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-240:~$ sudo systemctl enable jenkins
```

i-Oa5ad2517876718a6 (JenkinsServer)

PublicIPs: 65.233.112 PrivateIPs: 172.31.38.240

```
aws
Services
Search
[Alt+S]
Mumbai
NAVEEN GOWRI

Unpacking jenkins (2.426.3) ...
Setting up net-tools (1.60+git20181103.0eebece-lubuntu5) ...
Setting up jenkins (2.426.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-240:~$ 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-172-31-38-240:~$ sudo systemctl start jenkins

i-0a5ad2517876718a6 (JenkinsServer)
PublicIPs: 65.233.112 PrivateIPs: 172.31.38.240

CloudShell Feedback
© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences
```

```
aws
Services
Search
[Alt+S]
Mumbai
NAVEEN GOWRI

Setting up net-tools (1.60+git20181103.0eebece-lubuntu5) ...
Setting up jenkins (2.426.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-38-240:~$ 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-172-31-38-240:~$ sudo systemctl start jenkins
ubuntu@ip-172-31-38-240:~$ sudo systemctl status jenkins

i-0a5ad2517876718a6 (JenkinsServer)
PublicIPs: 65.233.112 PrivateIPs: 172.31.38.240

CloudShell Feedback
© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences
```

```
aws
Services
Search
[Alt+S]
Mumbai
NAVEEN GOWRI

jenkins.service - Jenkins Continuous Integration Server
Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
Active: active (running) since Fri 2024-02-16 08:42:50 UTC; 3min 15s ago
Main PID: 5436 (java)
Tasks: 39 (limit: 1121)
Memory: 289.3M
CPU: 40.234s
CGroup: /system.slice/jenkins.service
└─5436 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

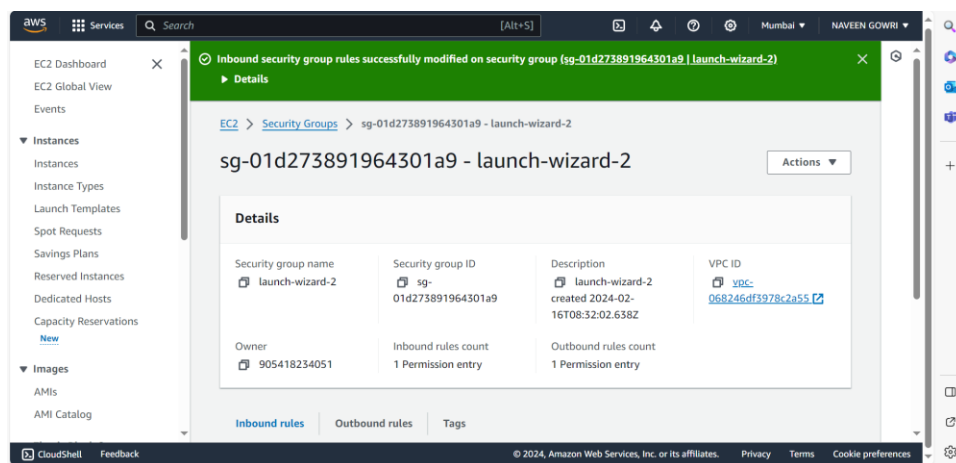
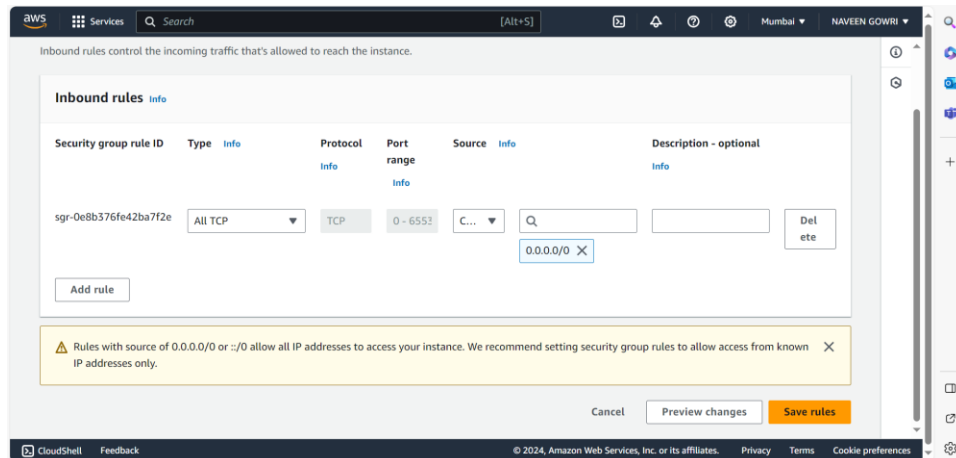
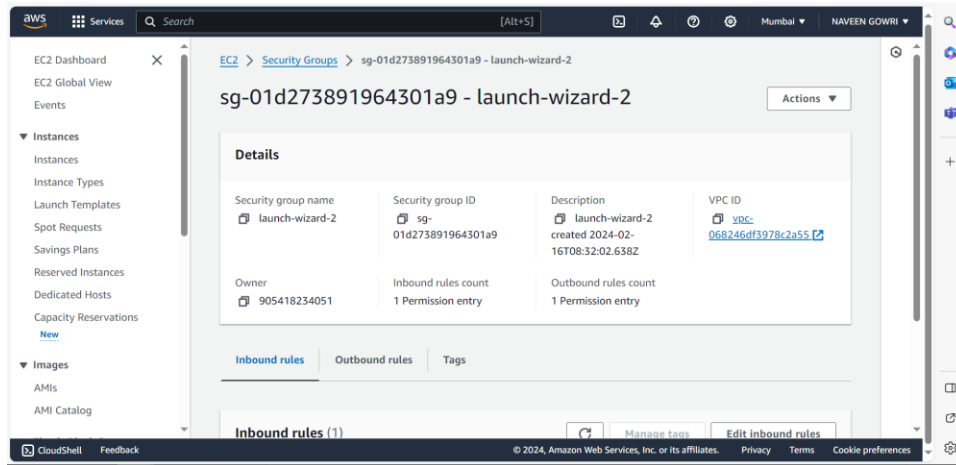
Feb 16 08:42:17 ip-172-31-38-240 jenkins[5436]: 26e044607d1b4adc9b68007eb518d21d
Feb 16 08:42:17 ip-172-31-38-240 jenkins[5436]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Feb 16 08:42:17 ip-172-31-38-240 jenkins[5436]: *****
Feb 16 08:42:17 ip-172-31-38-240 jenkins[5436]: *****
Feb 16 08:42:17 ip-172-31-38-240 jenkins[5436]: *****
Feb 16 08:42:50 ip-172-31-38-240 jenkins[5436]: 2024-02-16 08:42:50.223+0000 [id=32] INFO jenkins.InitReactorRunner$1.onAtt
Feb 16 08:42:50 ip-172-31-38-240 jenkins[5436]: 2024-02-16 08:42:50.251+0000 [id=24] INFO hudson.lifecycle.Lifecycle#onRead
Feb 16 08:42:50 ip-172-31-38-240 systemd[1]: Started Jenkins Continuous Integration Server.
Feb 16 08:42:51 ip-172-31-38-240 jenkins[5436]: 2024-02-16 08:42:51.186+0000 [id=47] INFO h.m.DownloadService$Downloadable
Feb 16 08:42:51 ip-172-31-38-240 jenkins[5436]: 2024-02-16 08:42:51.187+0000 [id=47] INFO hudson.util.Retrier$start: Perfor

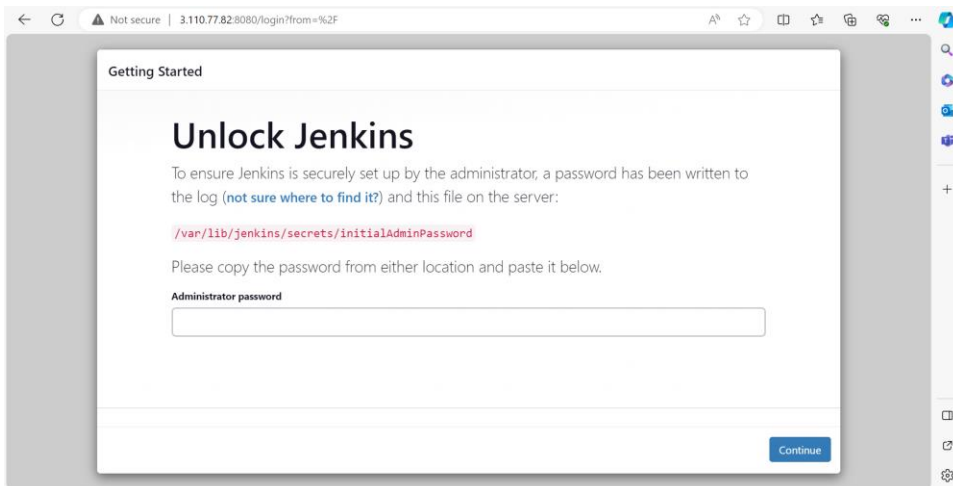
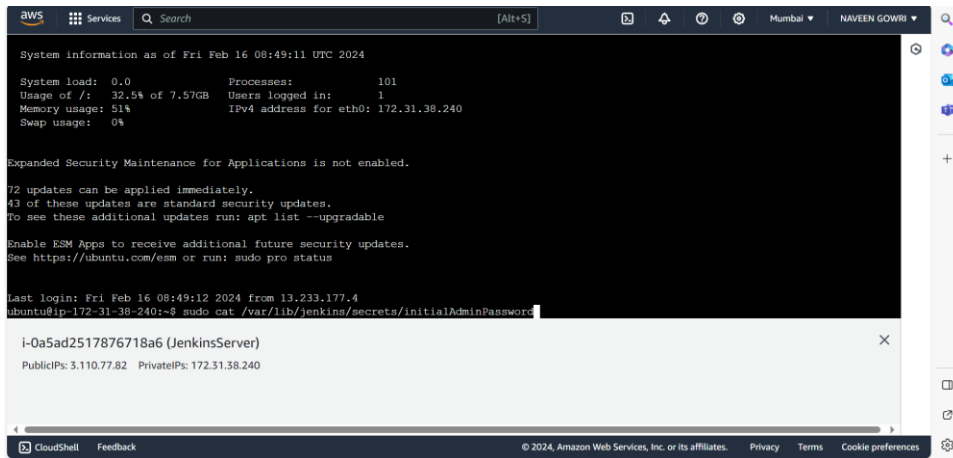
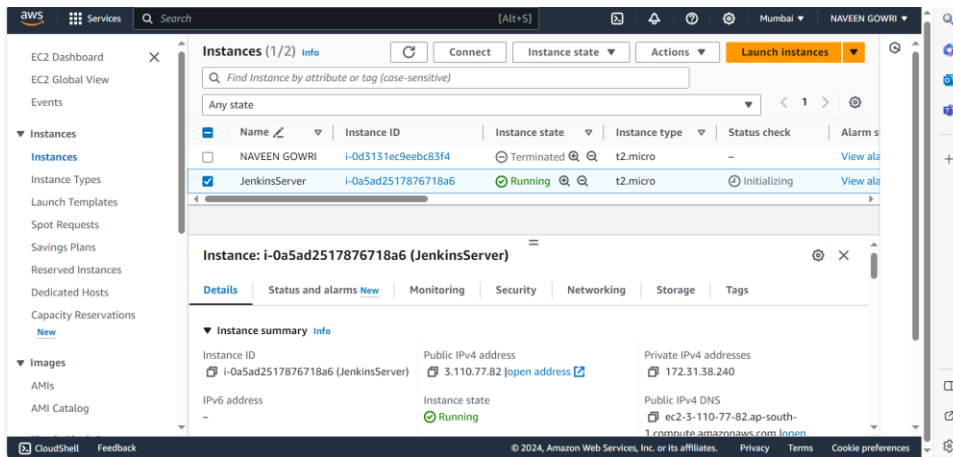
lines 1-20

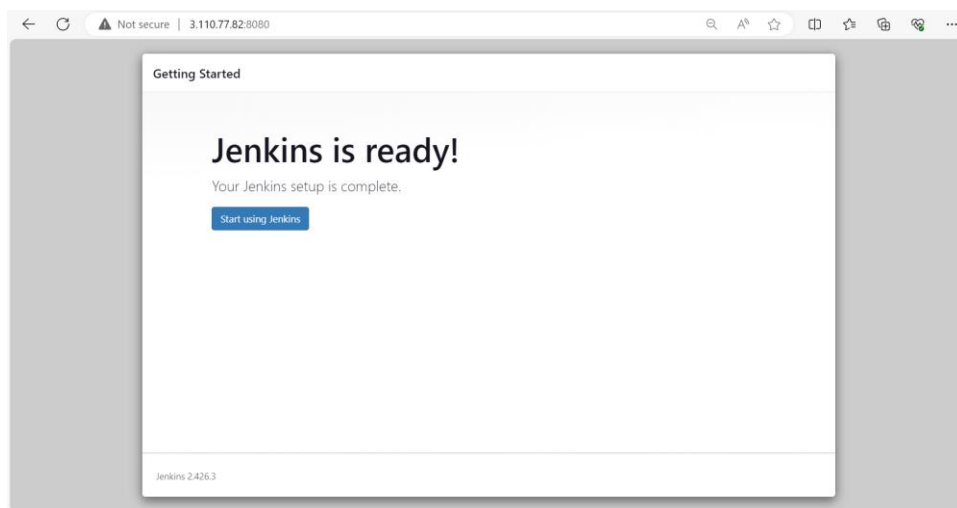
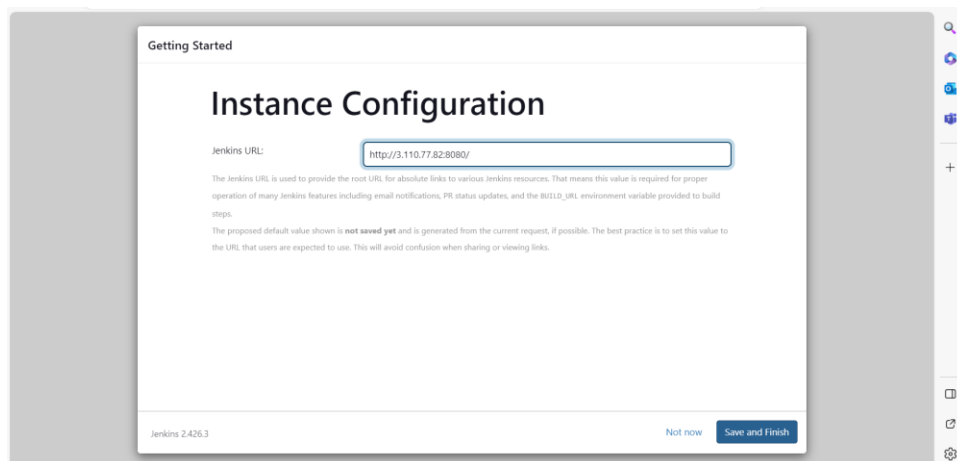
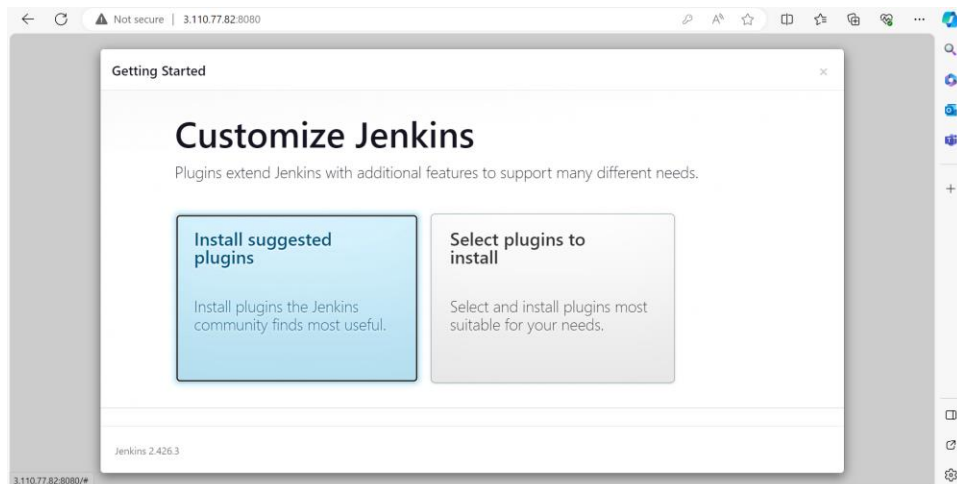
i-0a5ad2517876718a6 (JenkinsServer)
PublicIPs: 65.233.112 PrivateIPs: 172.31.38.240

CloudShell Feedback
© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences
```

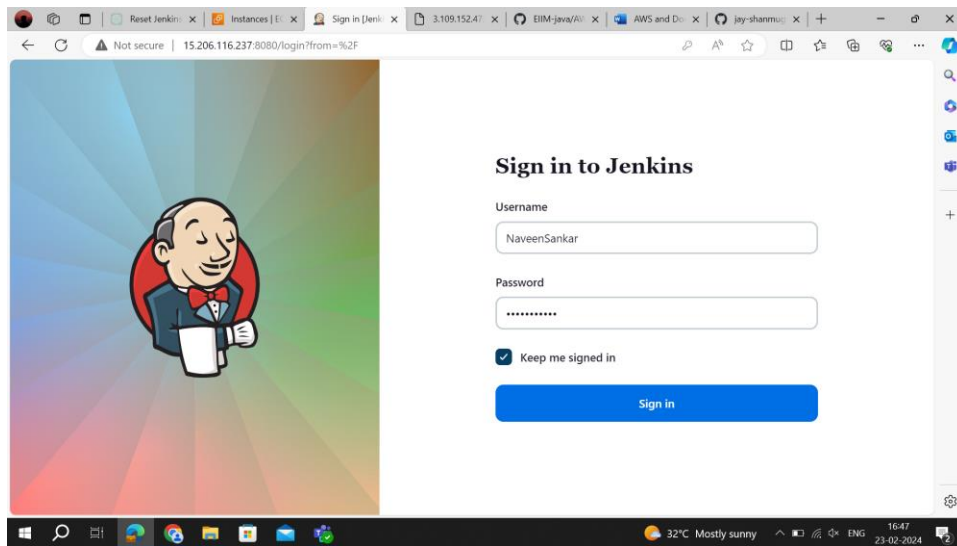




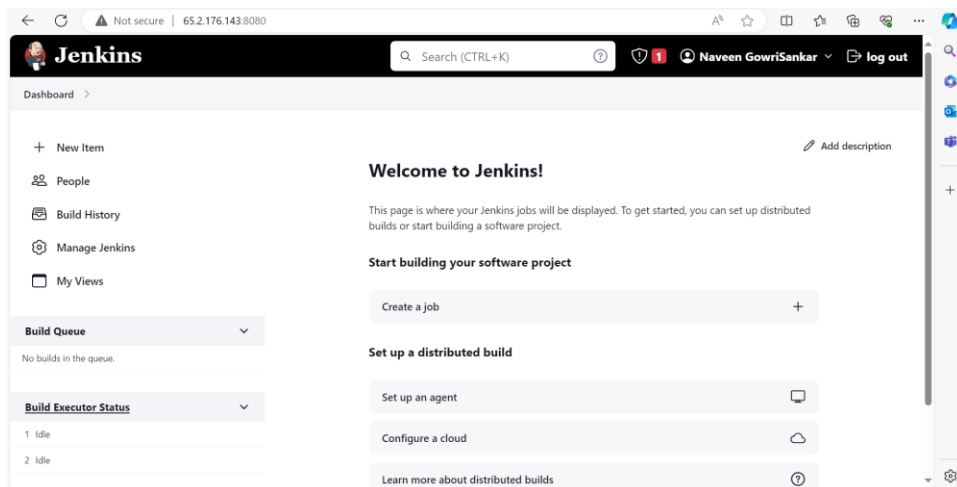




- Now you can sign in to the Jenkins.



- Now you will be navigated to the Jenkins dashboard.



- Create a Job using freestyle Project and provide your git url if you are using git as source code.
- You can see the jobs created in the dashboard and run it when you want.

