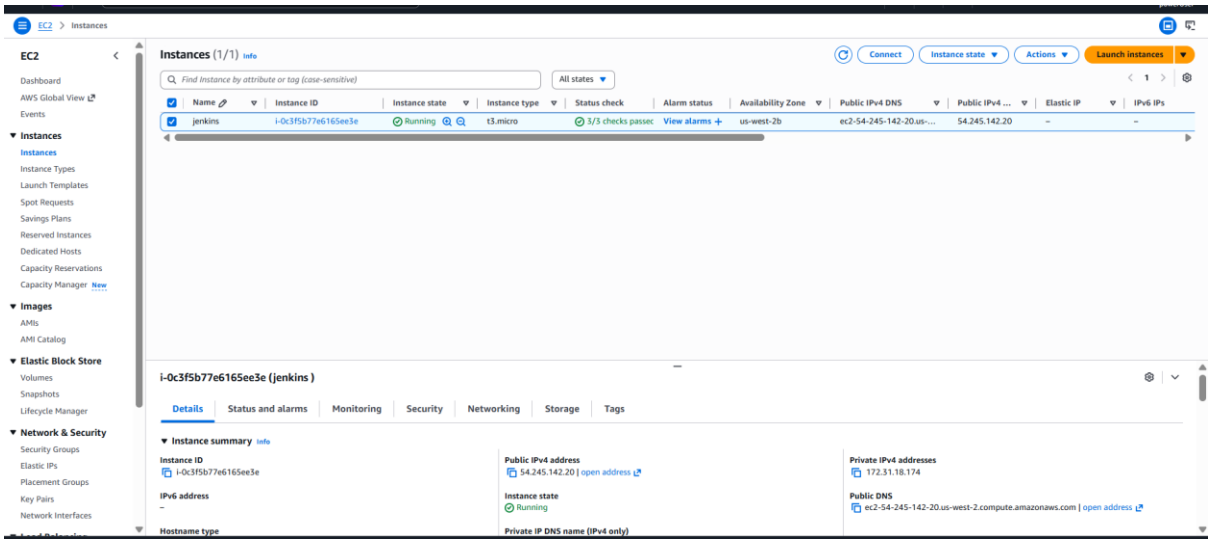
Task Description:

Launch jenkins and explore creating projects and users.

Techstacks needs to be used :

- AWS EC2
- Jenkins

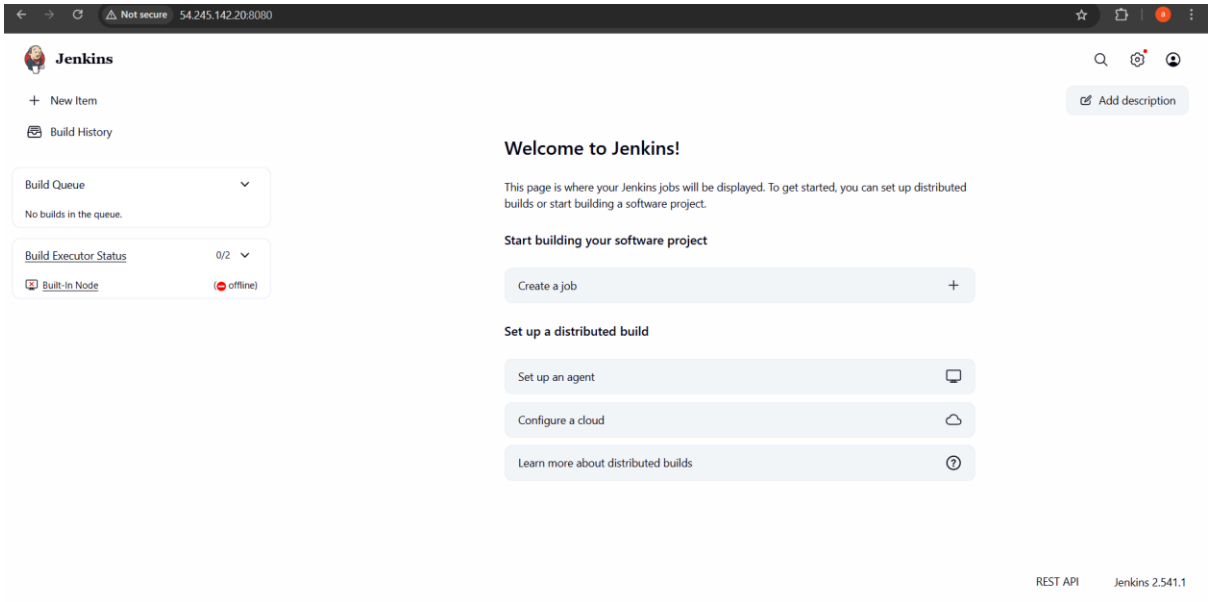
EC2 Instance launched:



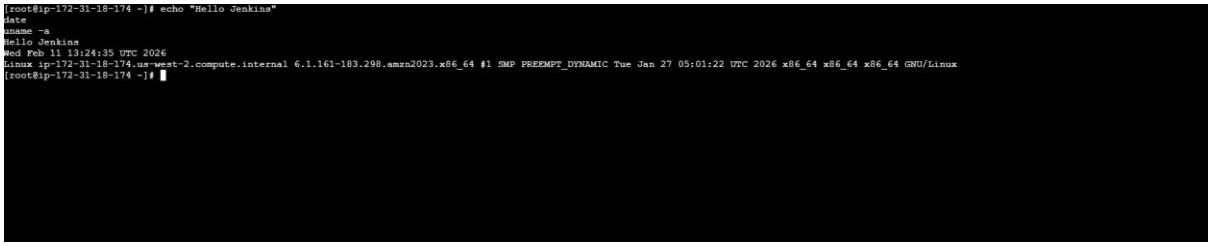
Jenkins installed

```
aws  Search [Alt+S]

  ,     #_
  ~\_  ####_        Amazon Linux 2023
 ~~  \_#####\
 ~~     \###|
 ~~       \#/ ___   https://aws.amazon.com/linux/amazon-linux-2023
  ~~       V~' '->
   ~~~         /
     ~~._.   _/
        _/ _/
      _/m/'
Last login: Wed Feb 11 11:47:41 2026 from 18.237.140.163
[ec2-user@ip-172-31-18-174 ~]$ sudo su -
Last login: Wed Feb 11 11:47:53 UTC 2026 on pts/1
[root@ip-172-31-18-174 ~]# cat jenkins.sh
cat: jenkins.sh: No such file or directory
[root@ip-172-31-18-174 ~]# ls -l
total 0
drwxr-xr-x. 2 root root 24 Feb 11 11:52 sampledir
[root@ip-172-31-18-174 ~]# cd sampledir
[root@ip-172-31-18-174 sampledir]# cat jenkins.sh
#!/bin/bash
set -e

echo "Updating system..."
sudo dnf update -y

echo "Installing Java 17 (required by Jenkins)..."
sudo dnf install -y java-17-amazon-corretto wget maven

echo "Verifying Java..."
java -version

echo "Creating Jenkins directory..."
sudo mkdir -p /opt/jenkins
sudo chown $USER:$USER /opt/jenkins

cd /opt/jenkins

echo "Downloading Jenkins WAR..."
wget https://get.jenkins.io/war-stable/latest/jenkins.war

echo "Starting Jenkins on port 8080..."
nohup java -jar jenkins.war --httpPort=8080 > jenkins.log 2>&1 &

[root@ip-172-31-18-174 sampledir]# ps -ef | grep jenkins
root        6910       1  1 12:03 ?        00:00:23 java -jar jenkins.war --httpPort=8080
root       27211   27079  0 12:23 pts/1    00:00:00 grep --color=auto jenkins
[root@ip-172-31-18-174 sampledir]#
```

Jenkins launched In browser



A sample “hello Jenkins” Freestyle project is created:



User’s created :