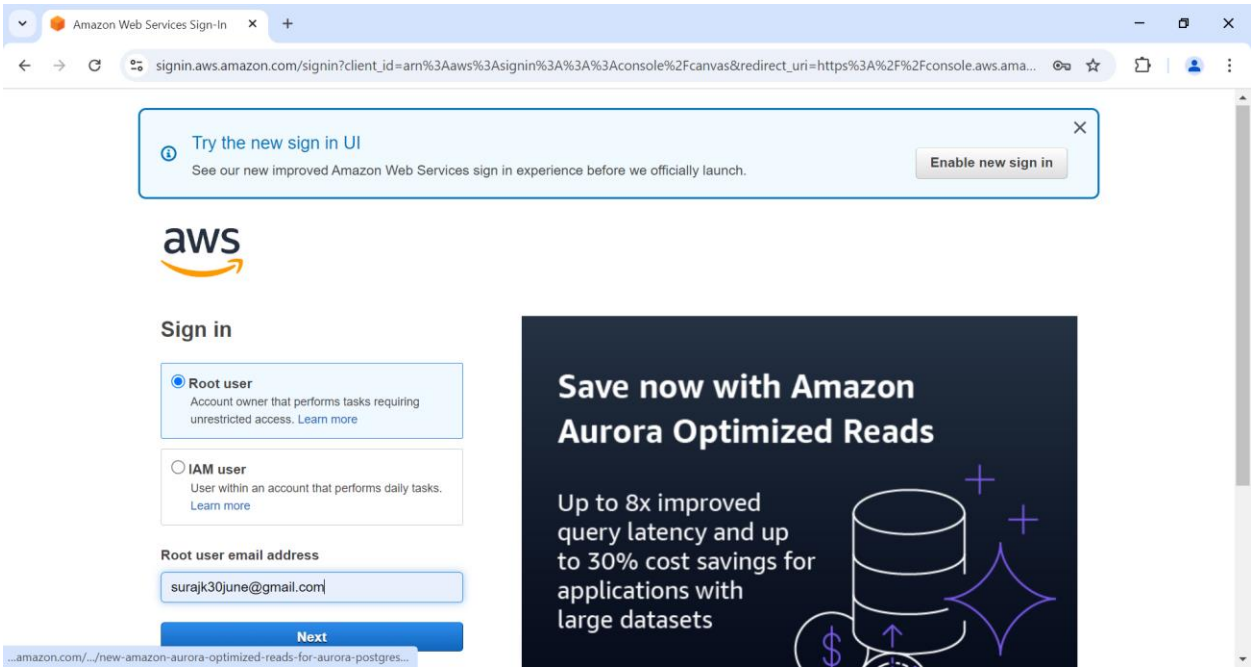
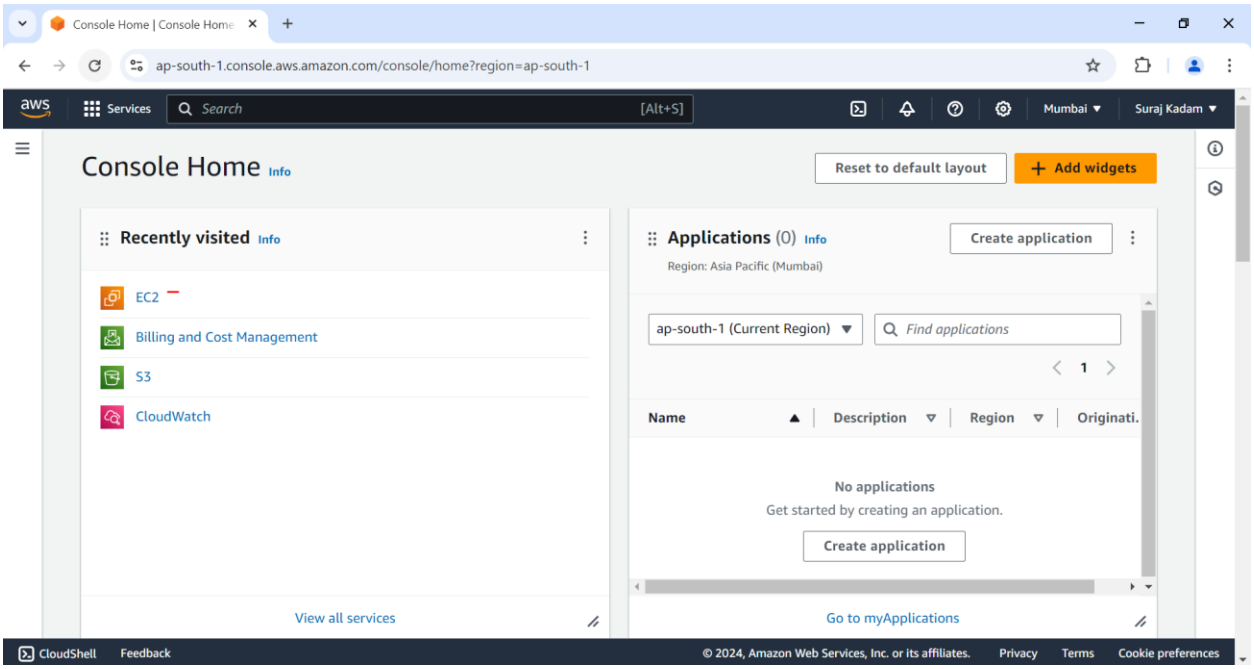
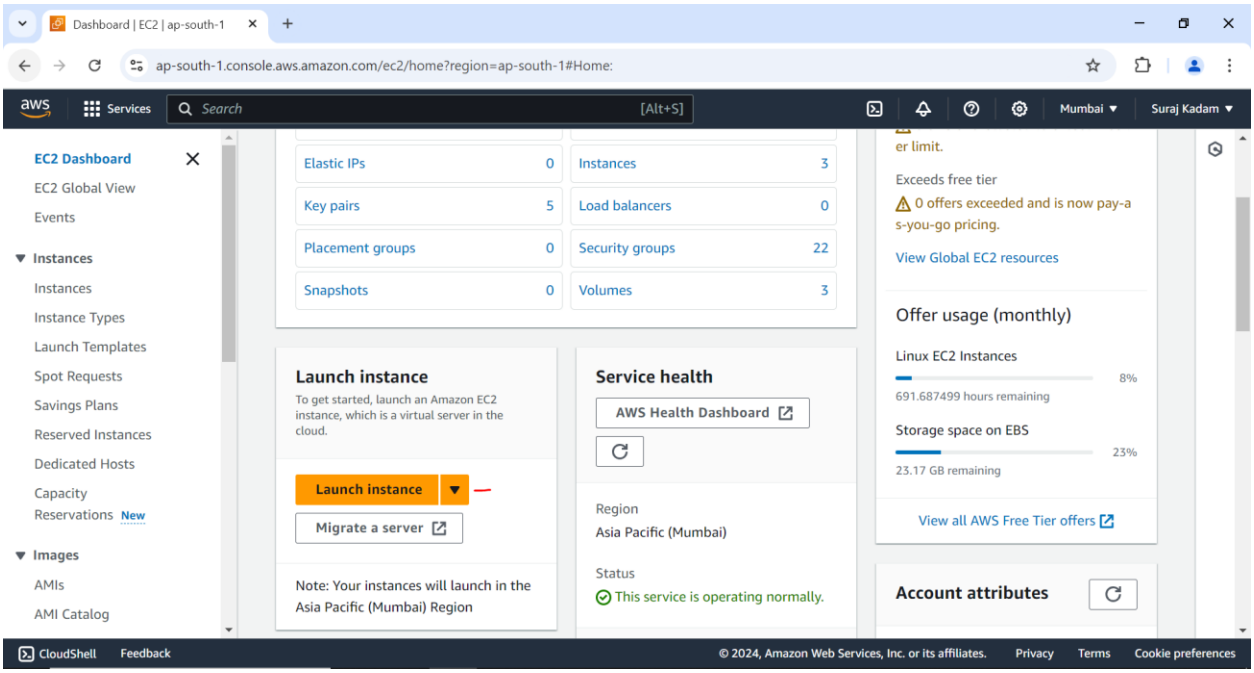
Jenkins Setup

Step 1: Login into your AWS cloud account and navigate to EC2 service

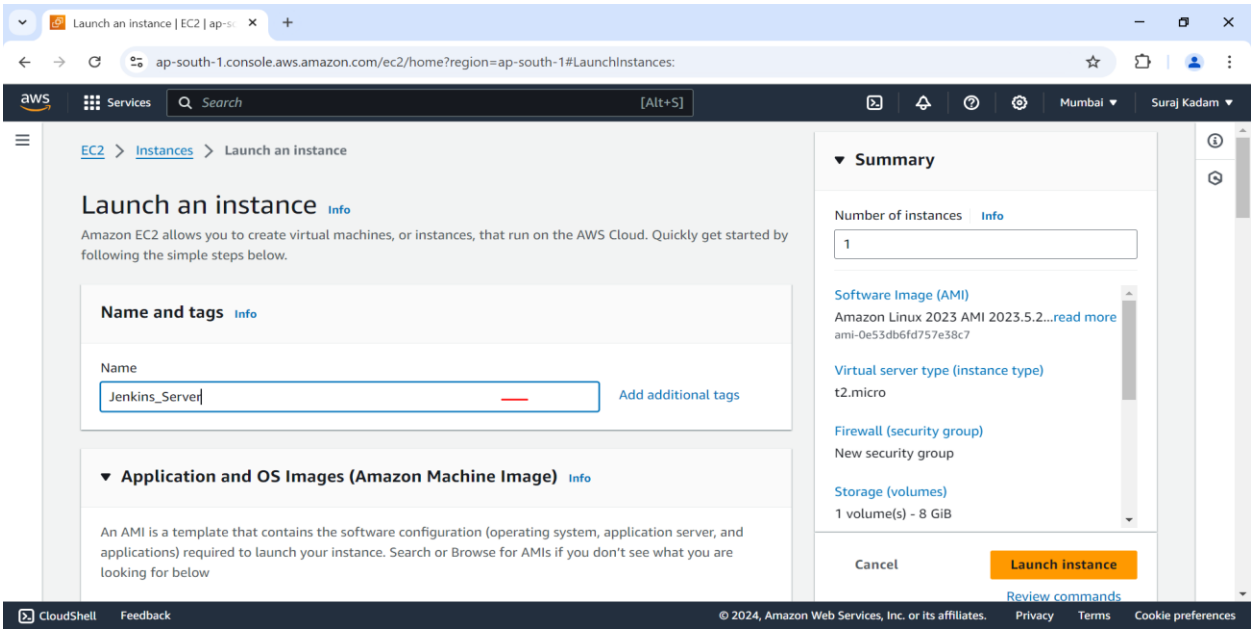


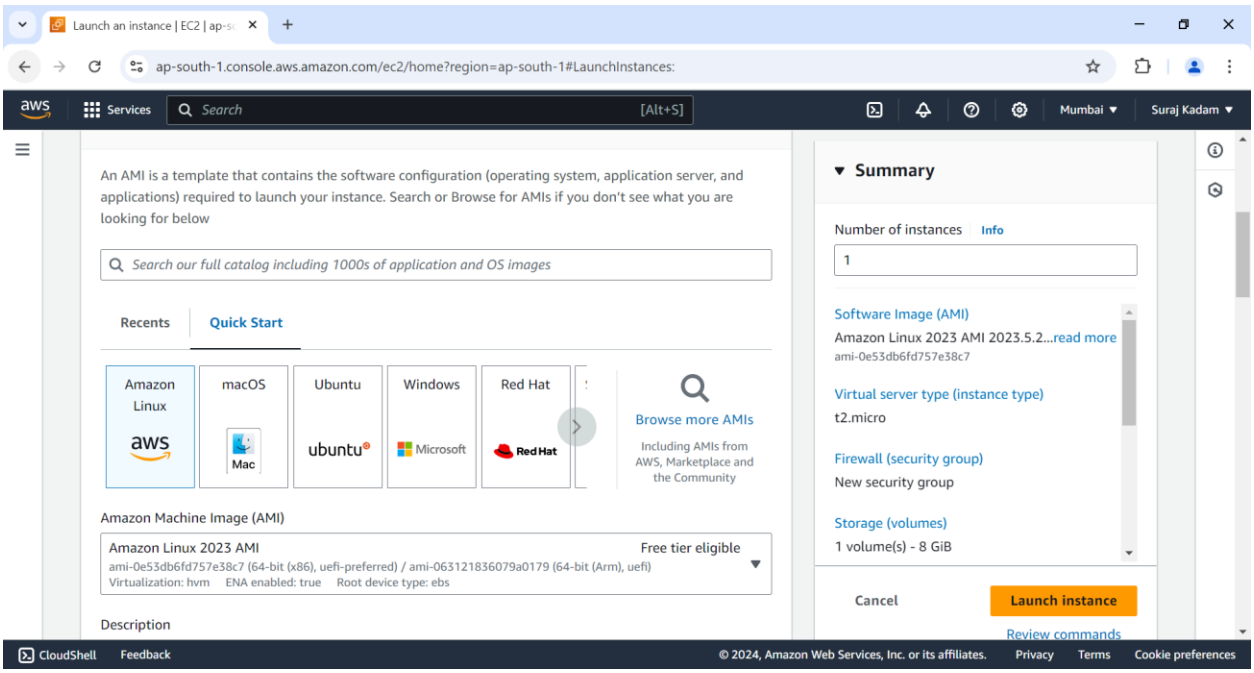


Step 2: Click on Launch Instance.



Step-3: Give name for instance and select AMI



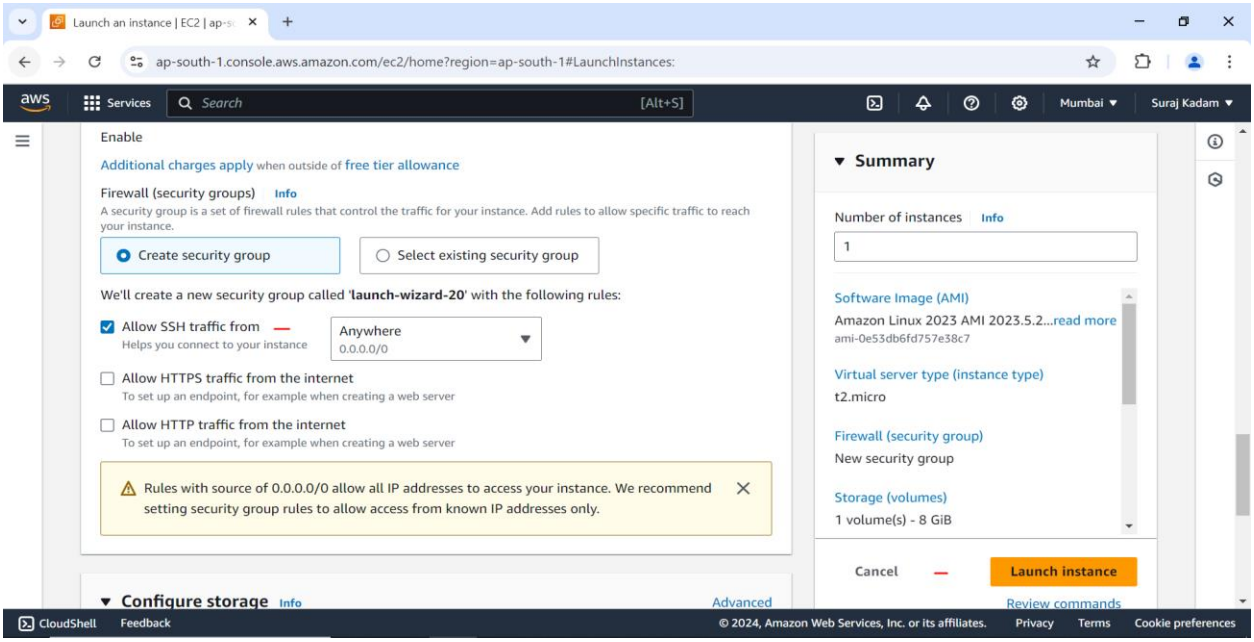


Step –4: Keep instance type as t2.mico and select Key Pair

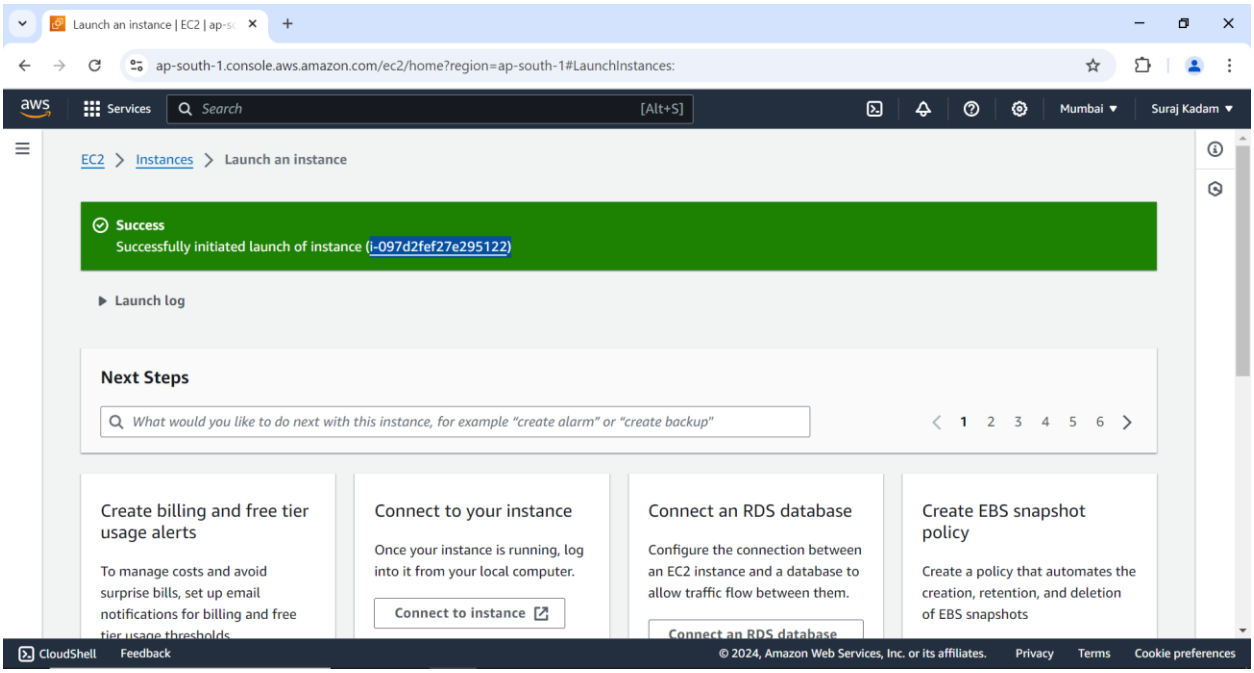
Note: If Key pair not available, create new pair and select it.

(When we create a new key pair, it will download .pem file. Keep it safe. We need that .pem file to connect with the Machin using SSH)

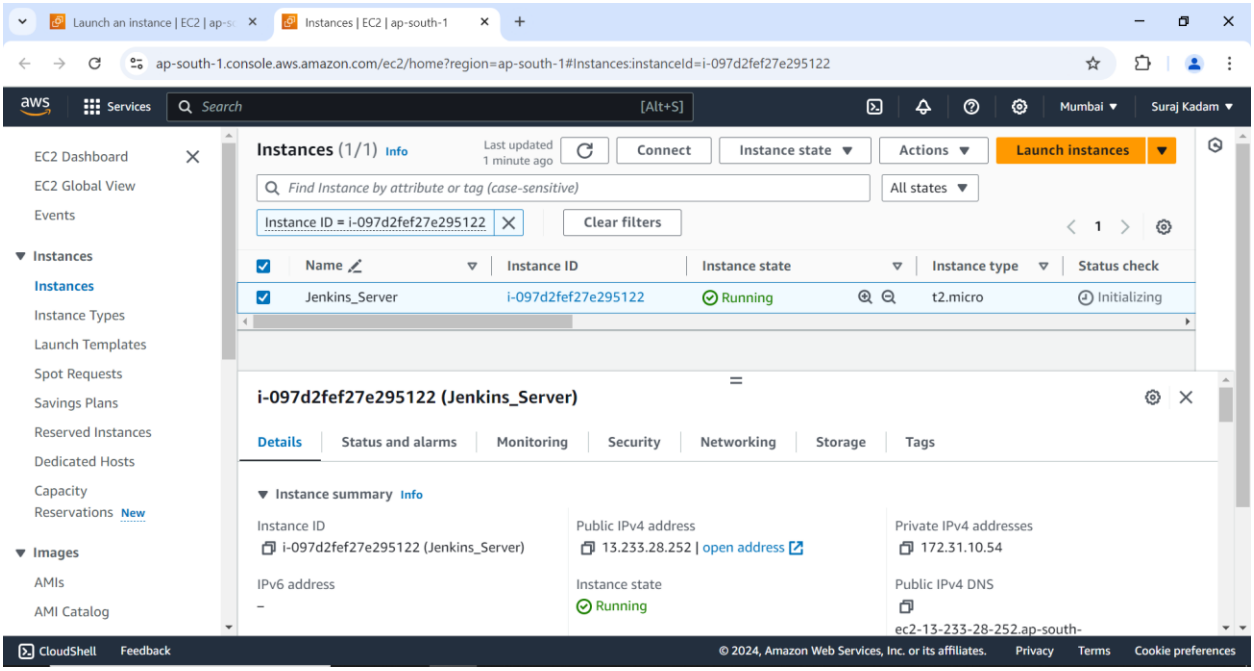
Step –5: Select Security group Settings to allow SSH traffic and click on 'Launch Instance'



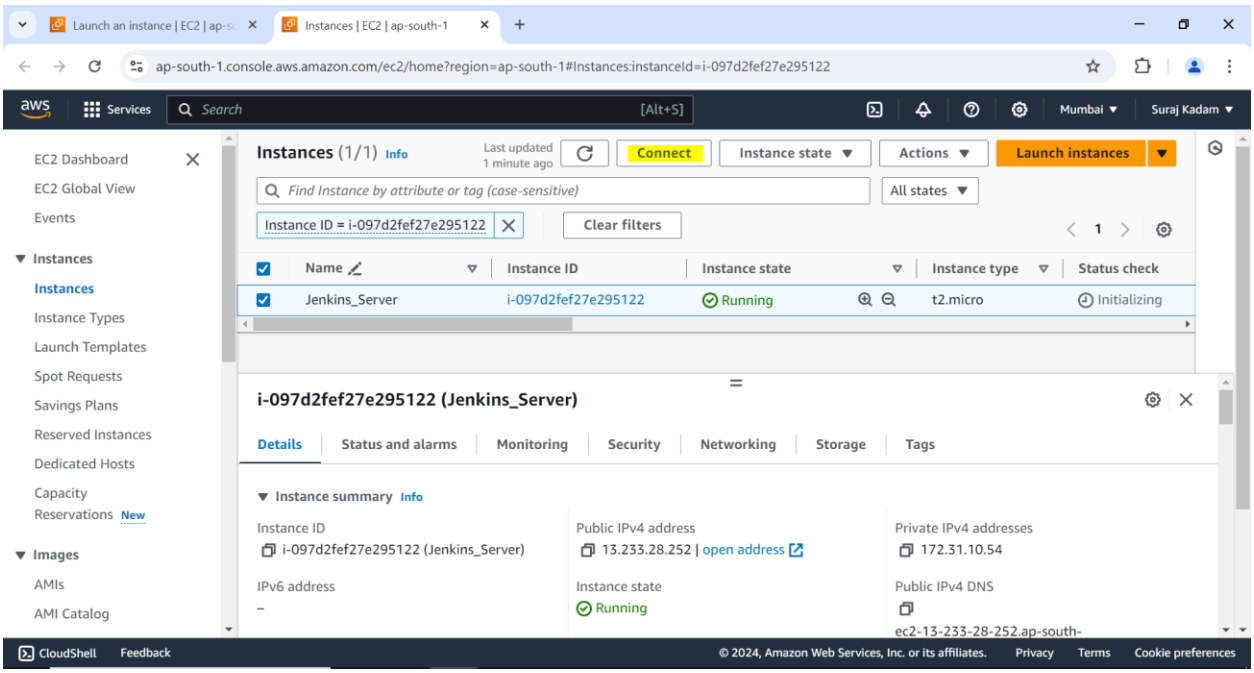
Step –6: Once instance got created then click on Instance id which is showing like below

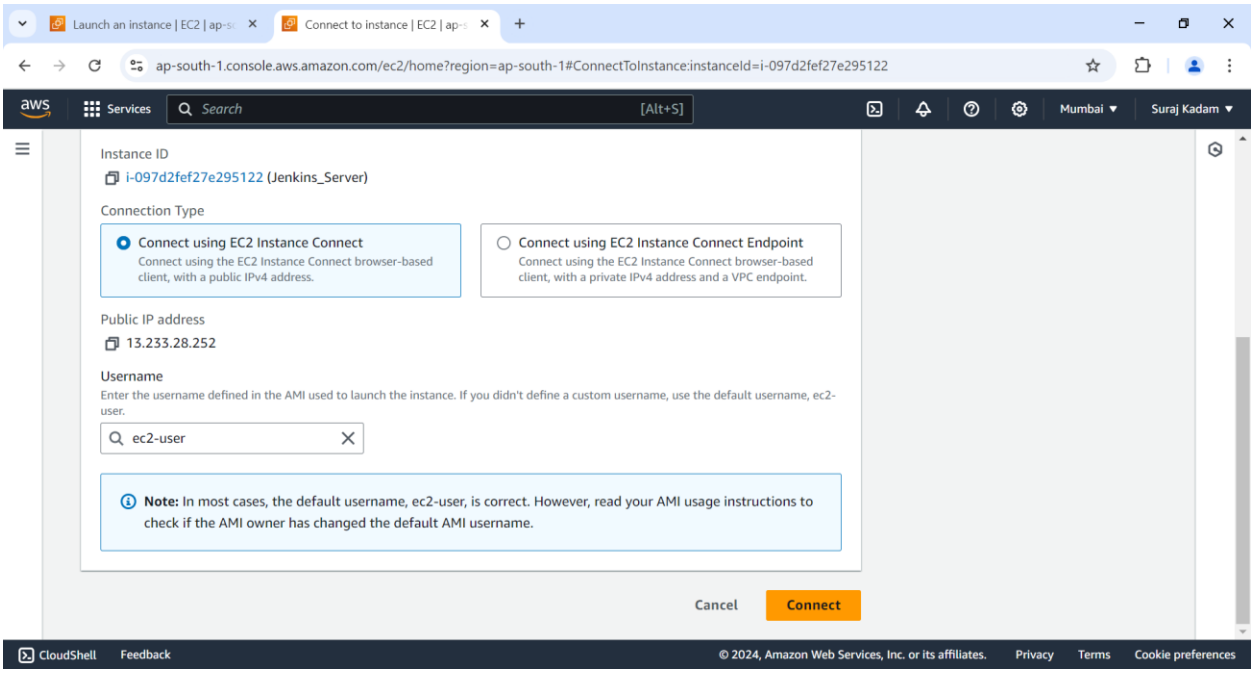


Step – 7: Select Instance name checkbox and see Public IP of instance

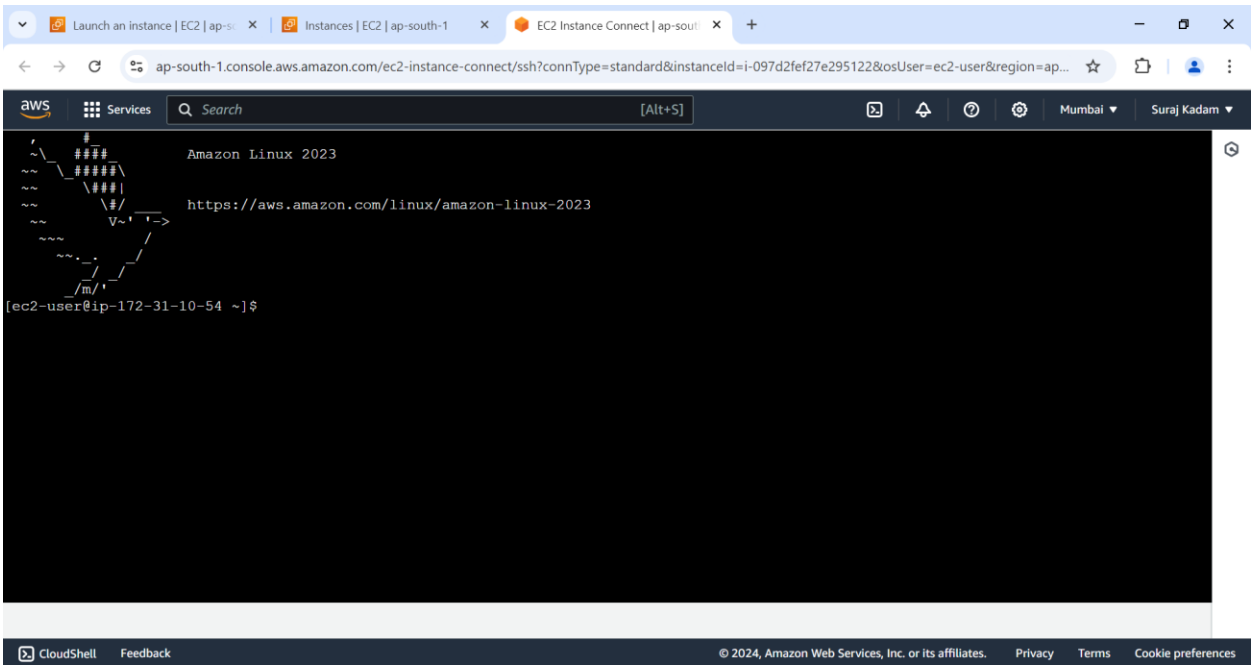


Step –8: Click on connect button and connect to Jenkins VM



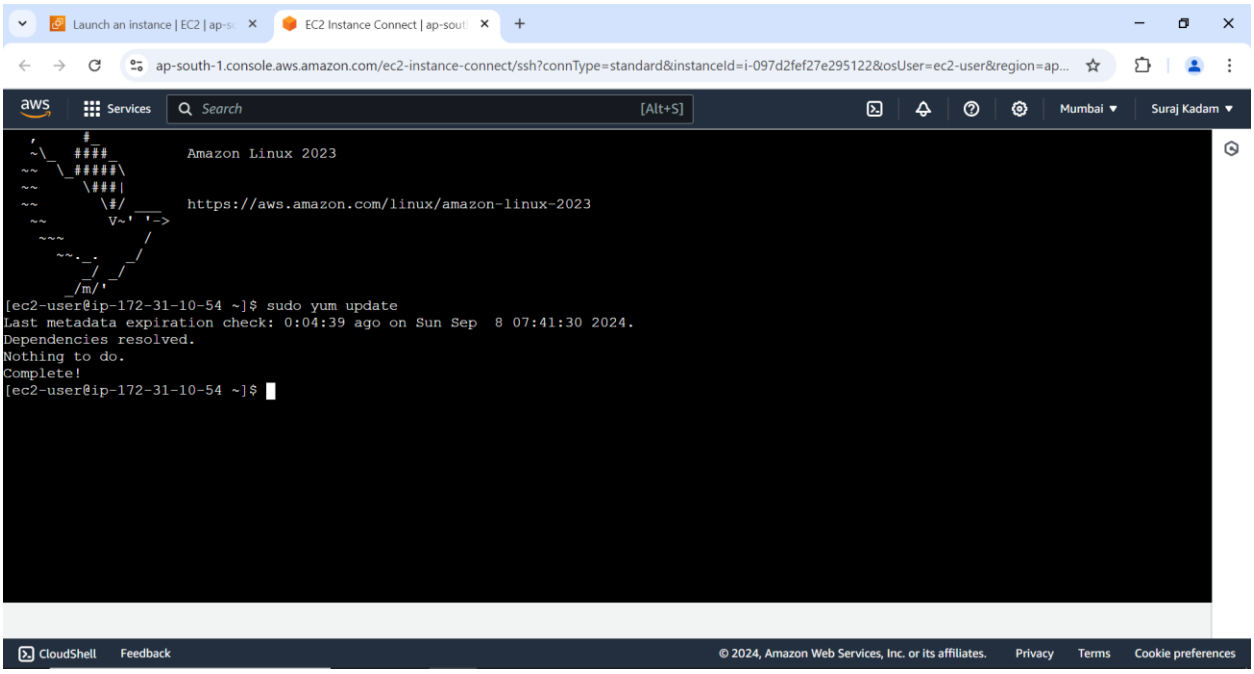


Note: After successful connection with Virtual Machin, we can see below terminal

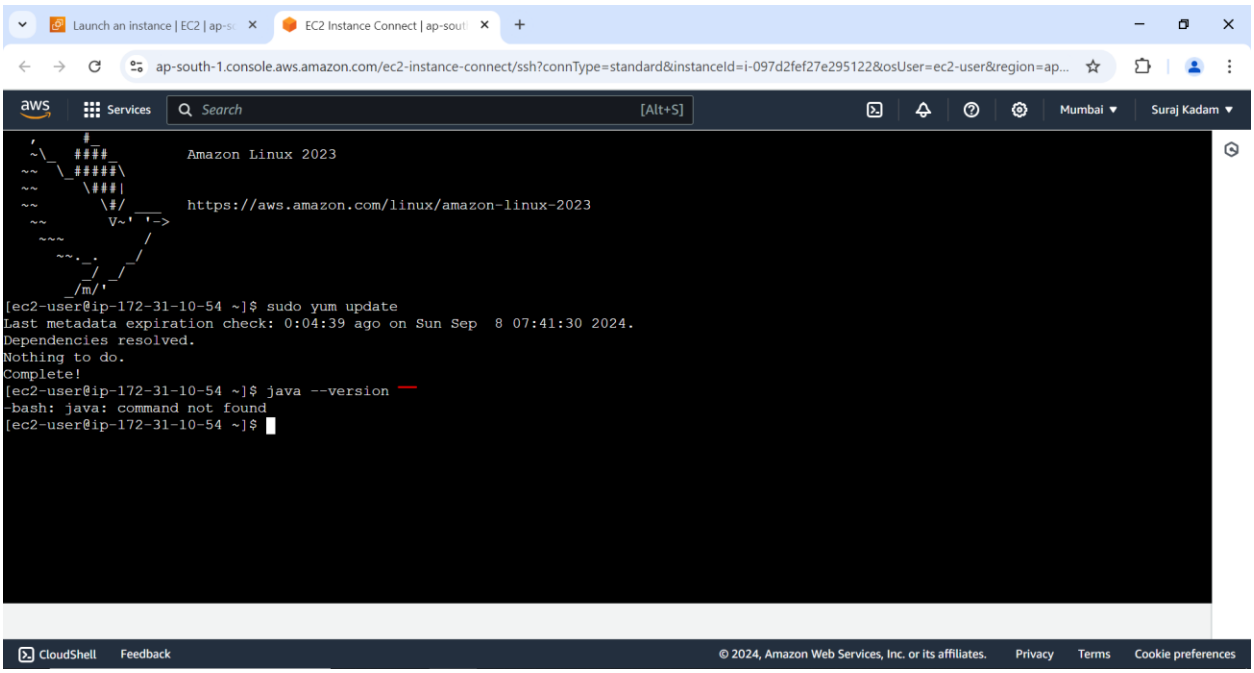


Step –9: Update Packages using the command below.

$ sudo yum update

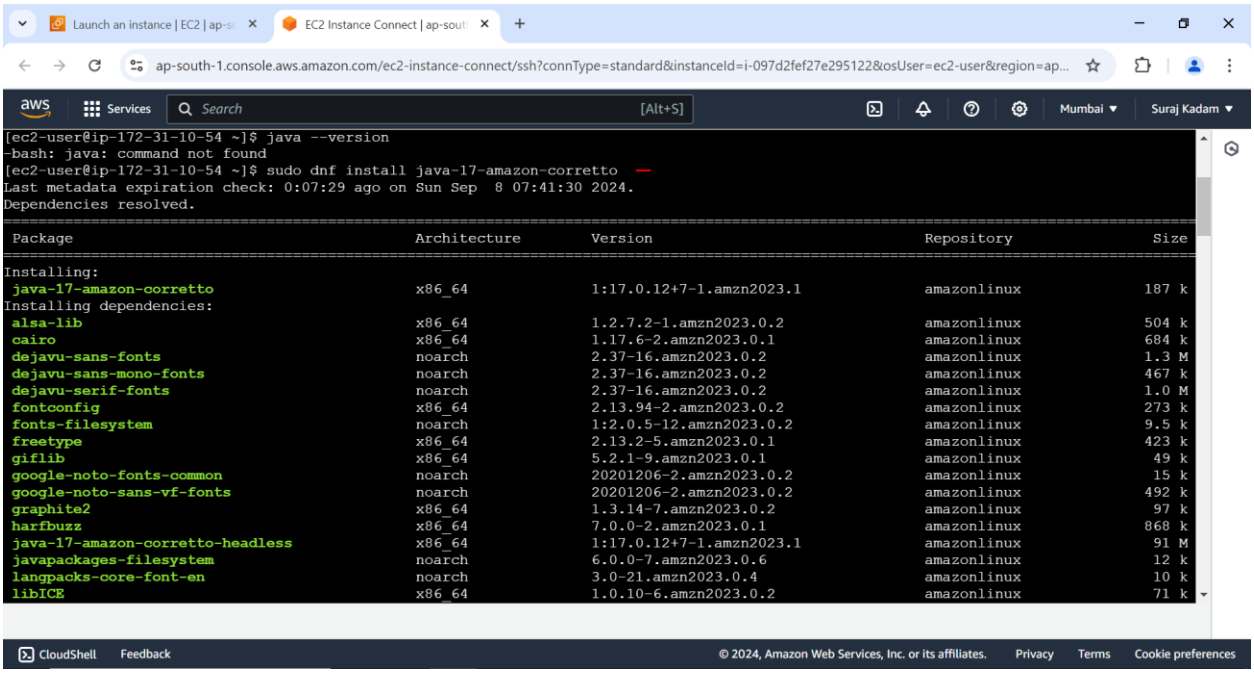


Step- 10: Check Java Version

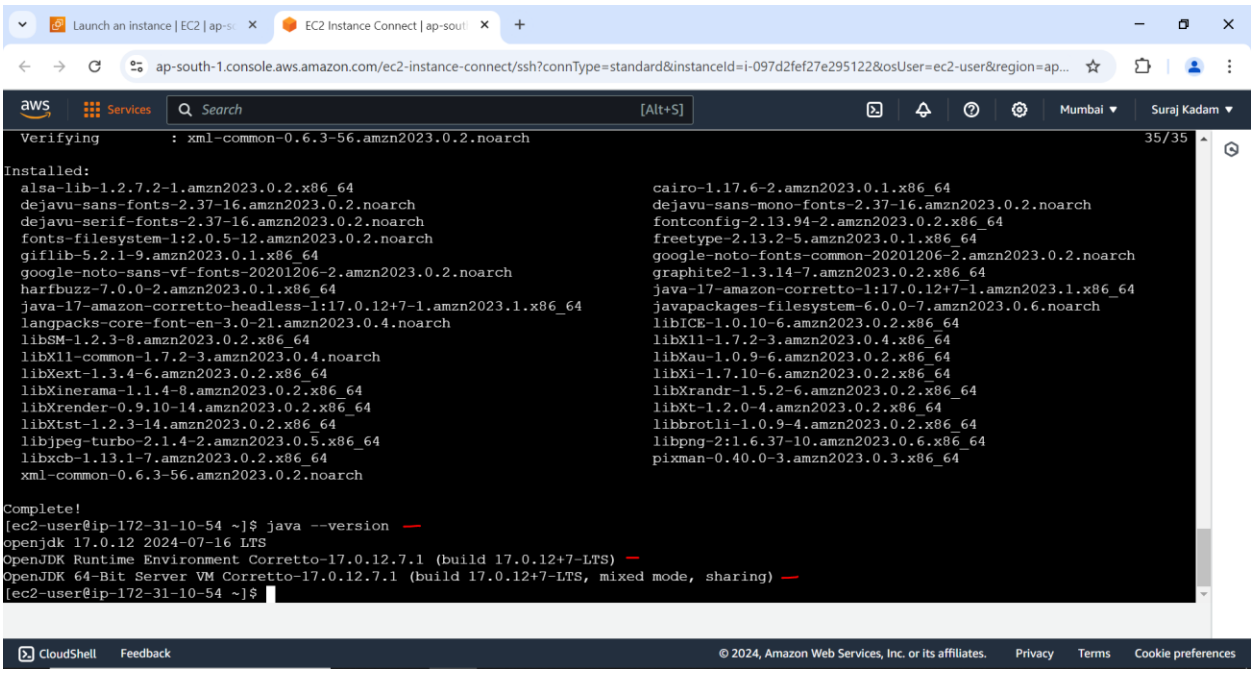


Step –11: Install Java using Below command we required jdk version 17

```
sudo dnf install java-17-amazon-corretto -y
```

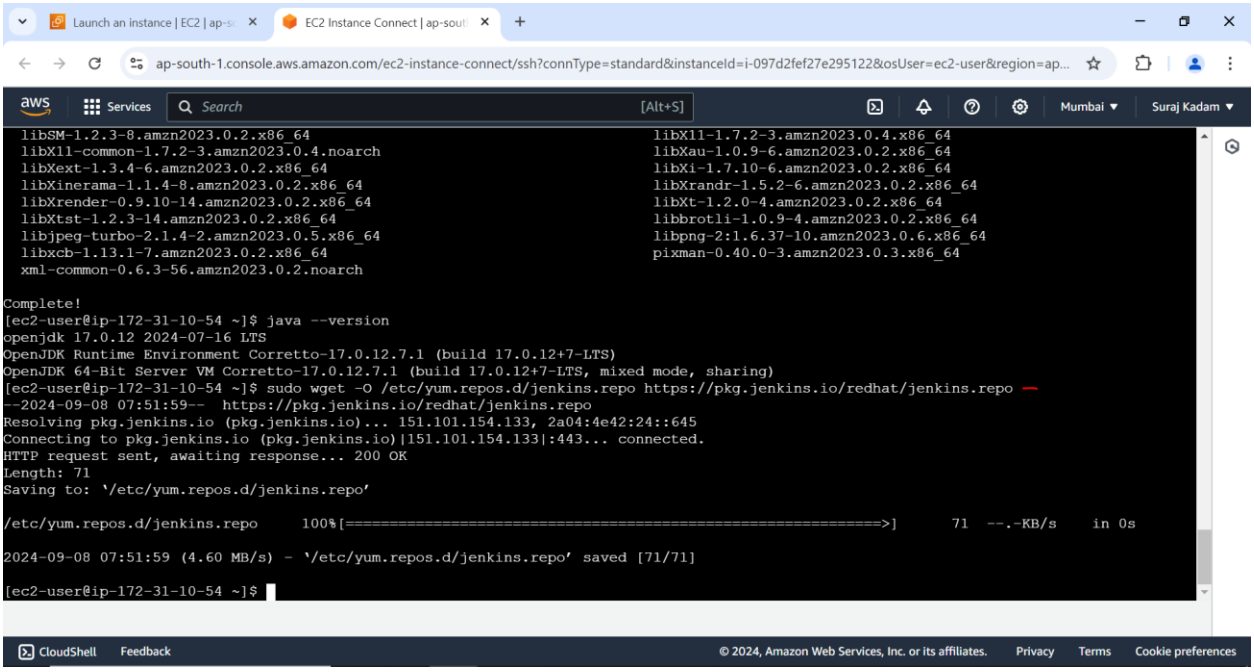


Step –12: Verify Java Version



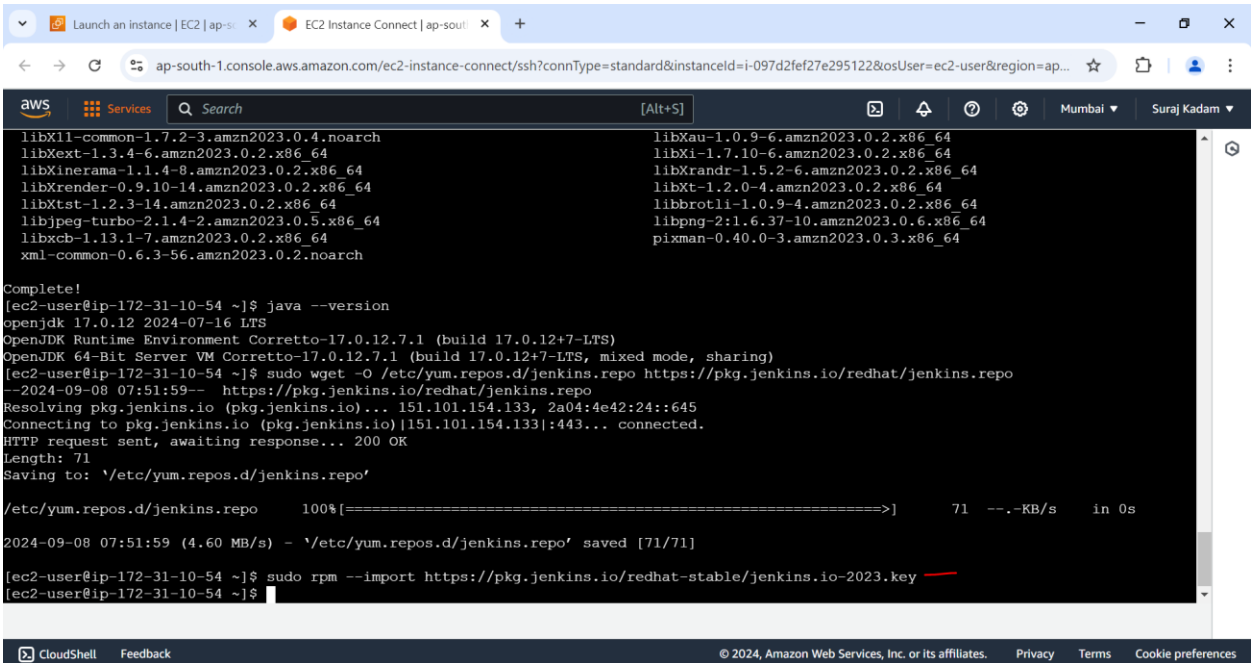
Step- 13: Add Jenkins key to repository by executing below commands.

```
sudo wget -O /etc/yum.repos.d/jenkins.repo
https://pkg.jenkins.io/redhat/jenkins.repo
```

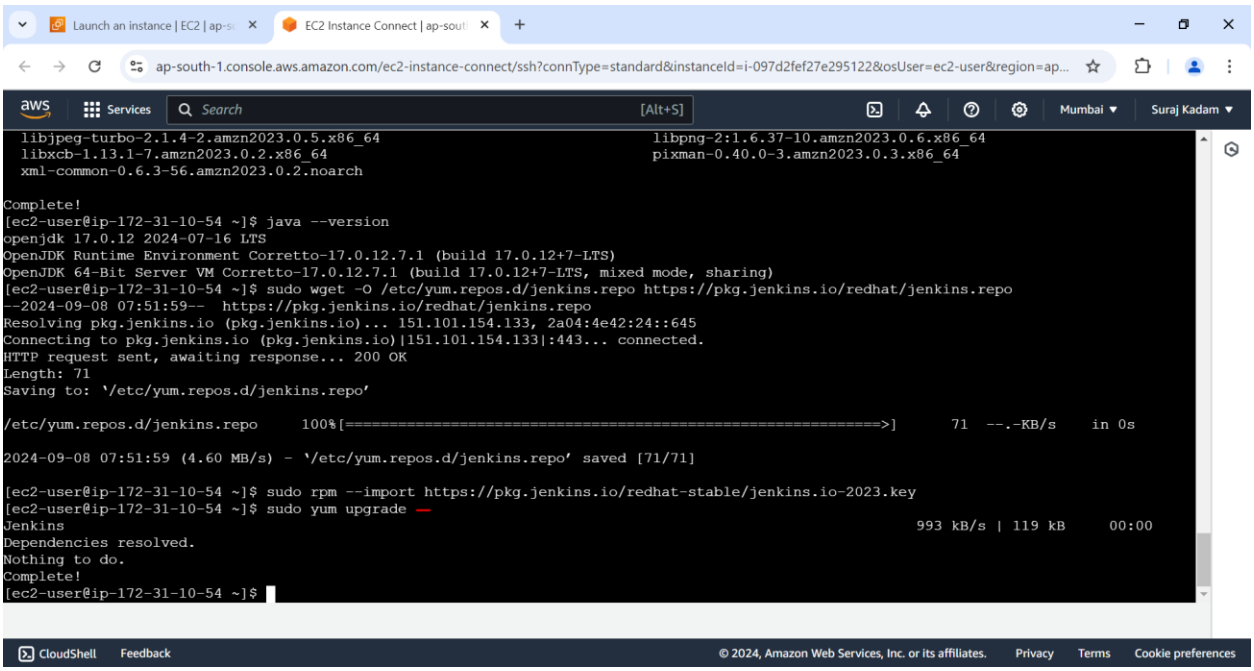


Import a key file from Jenkins-CI to enable installation from the package

$ sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io-2023.key

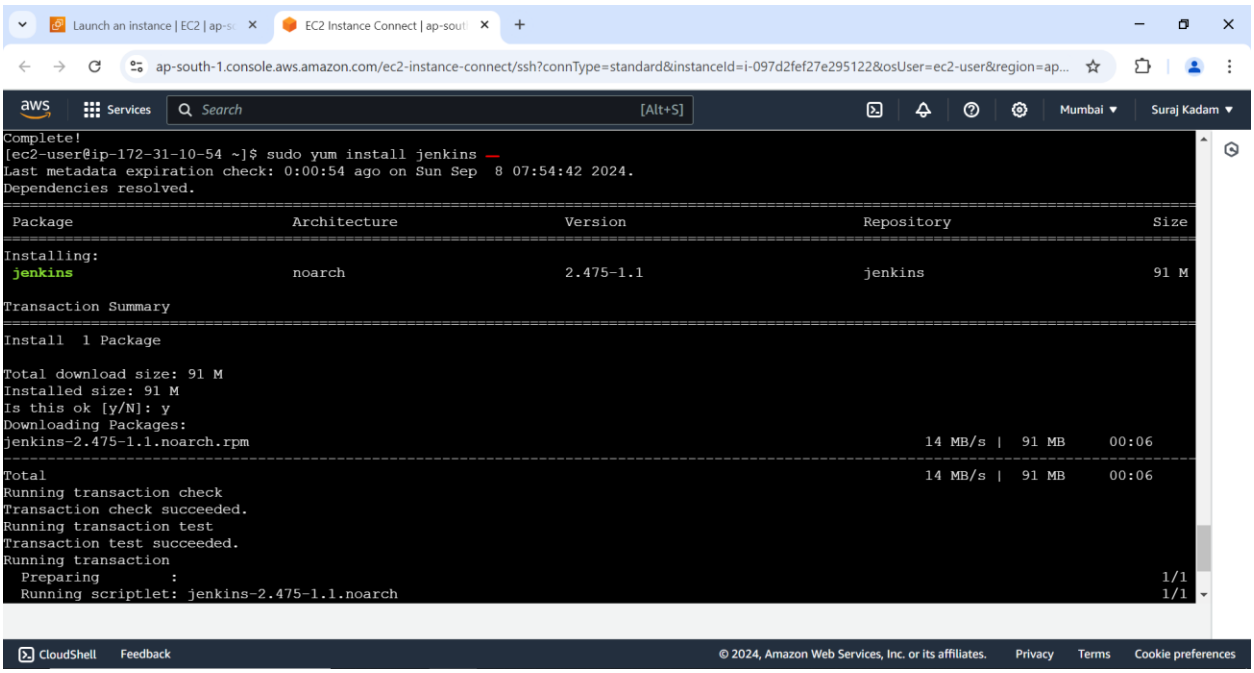


$ sudo yum upgrade



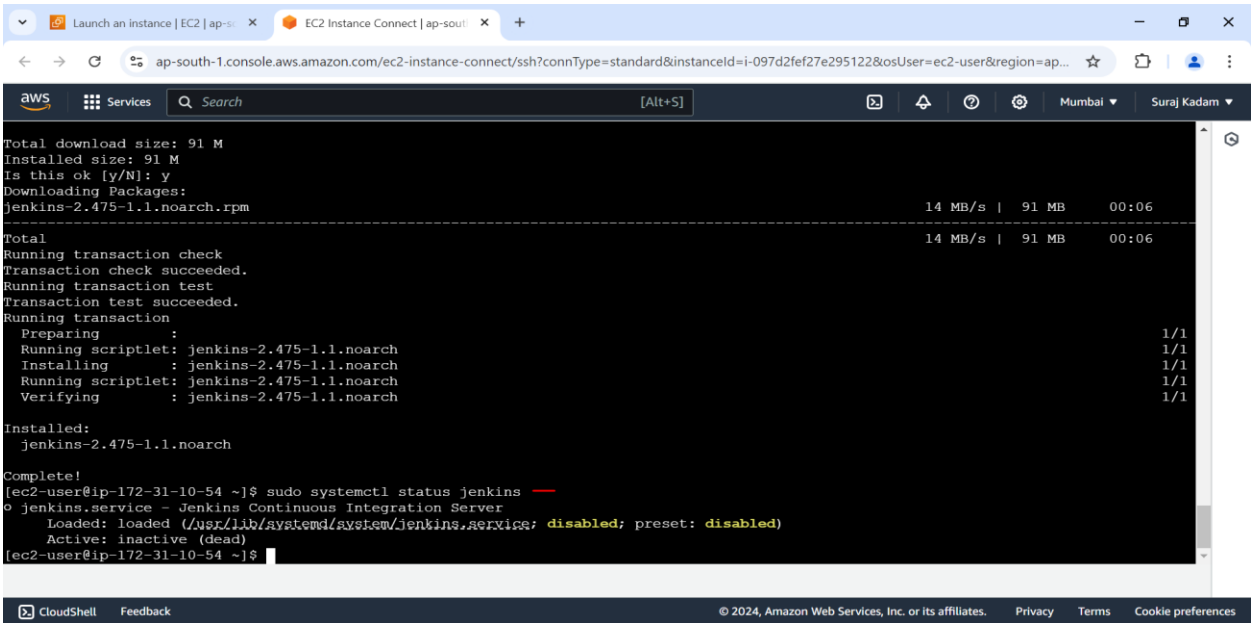
Step – 14: Install Jenkins software using below command

$ sudo yum install jenkins -y



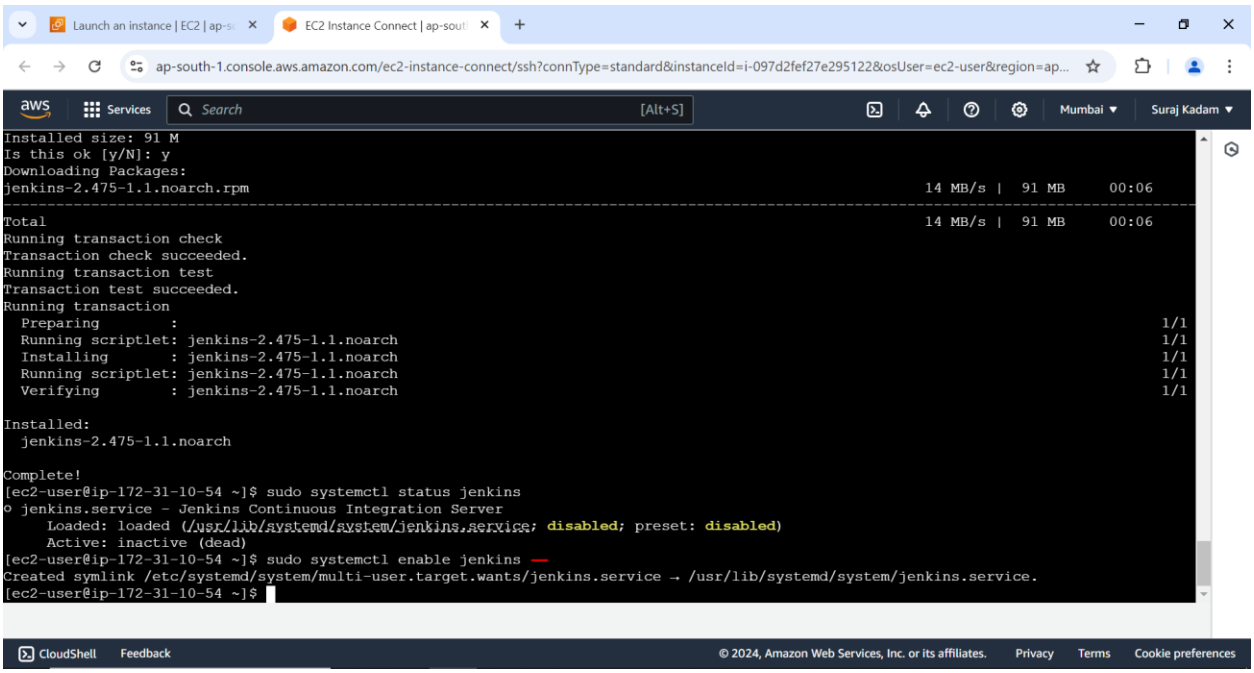
Step- 15: Check the status of Jenkins server using below command

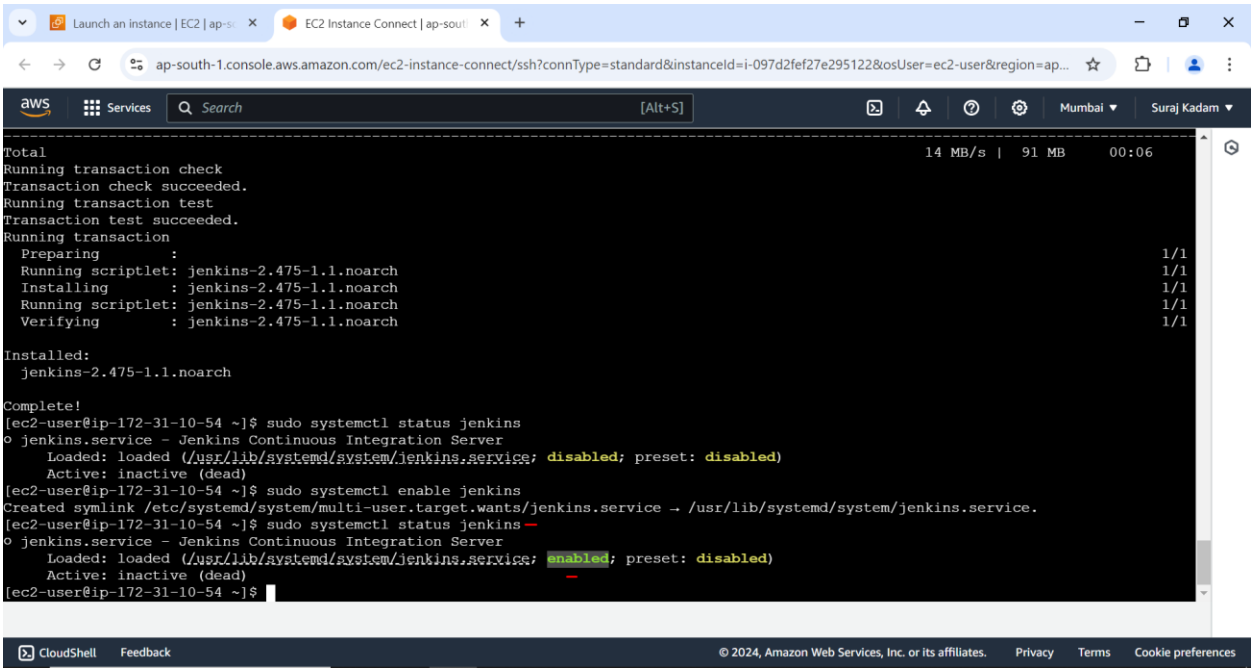
```
sudo systemctl status jenkins
```



Step –16: Enable the Jenkins service to start at boot

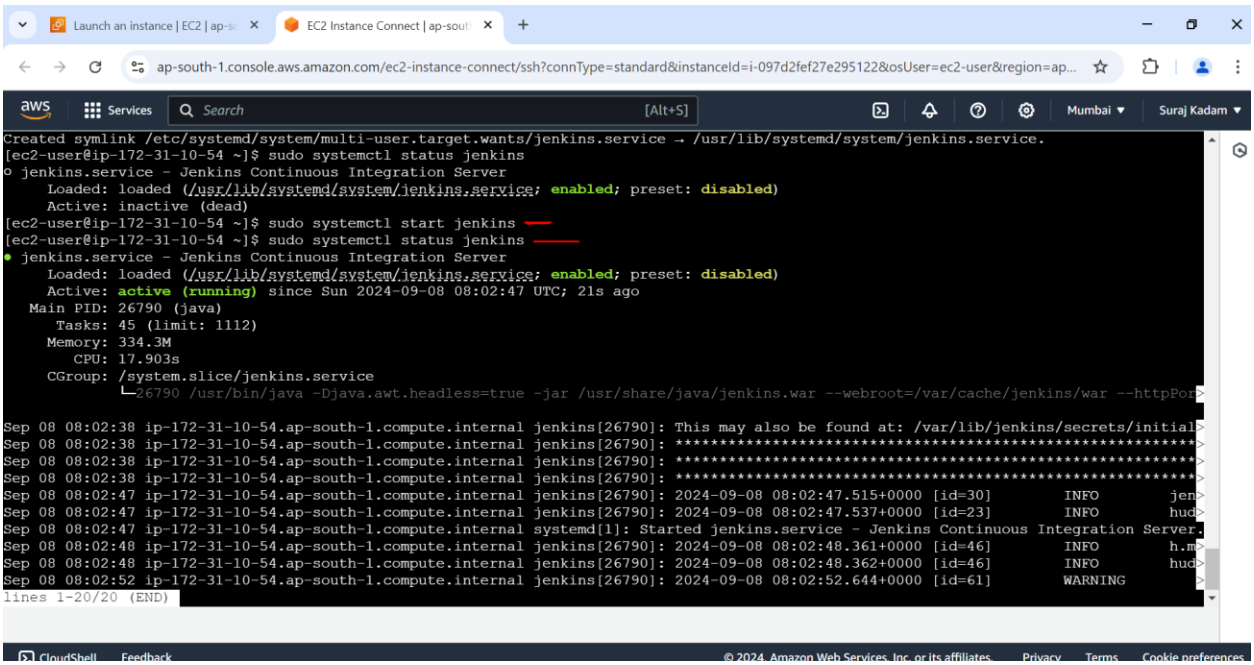
```
$ sudo systemctl enable jenkins
```



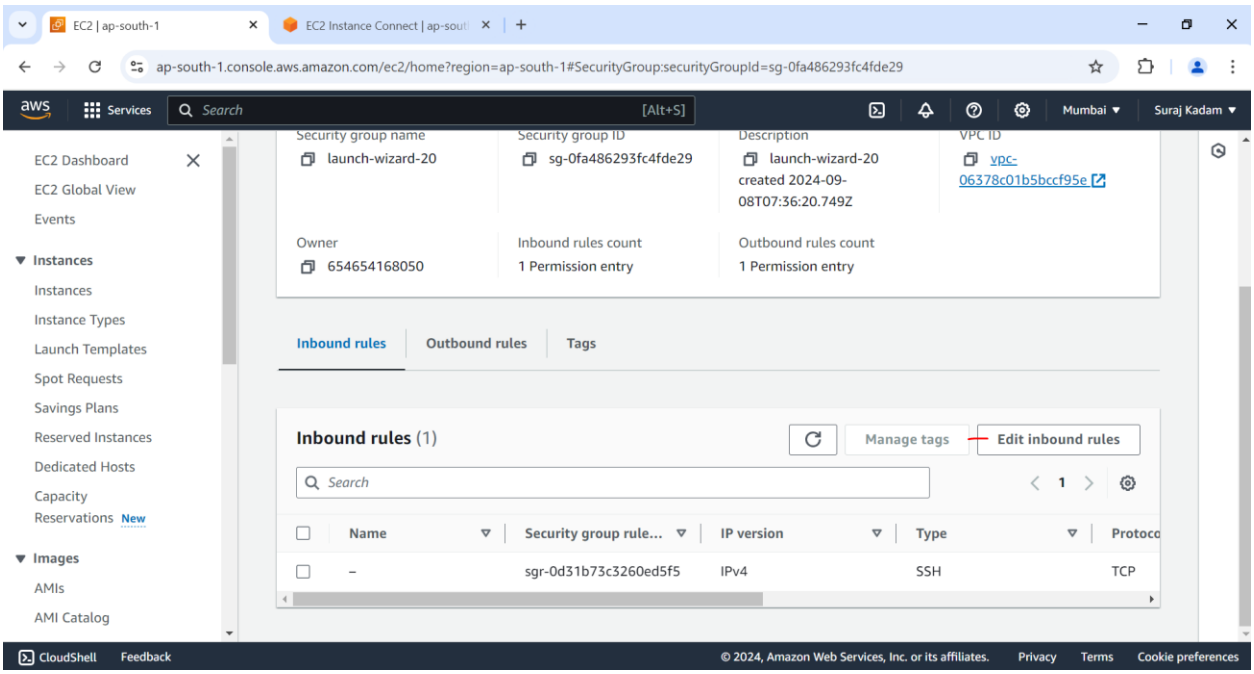


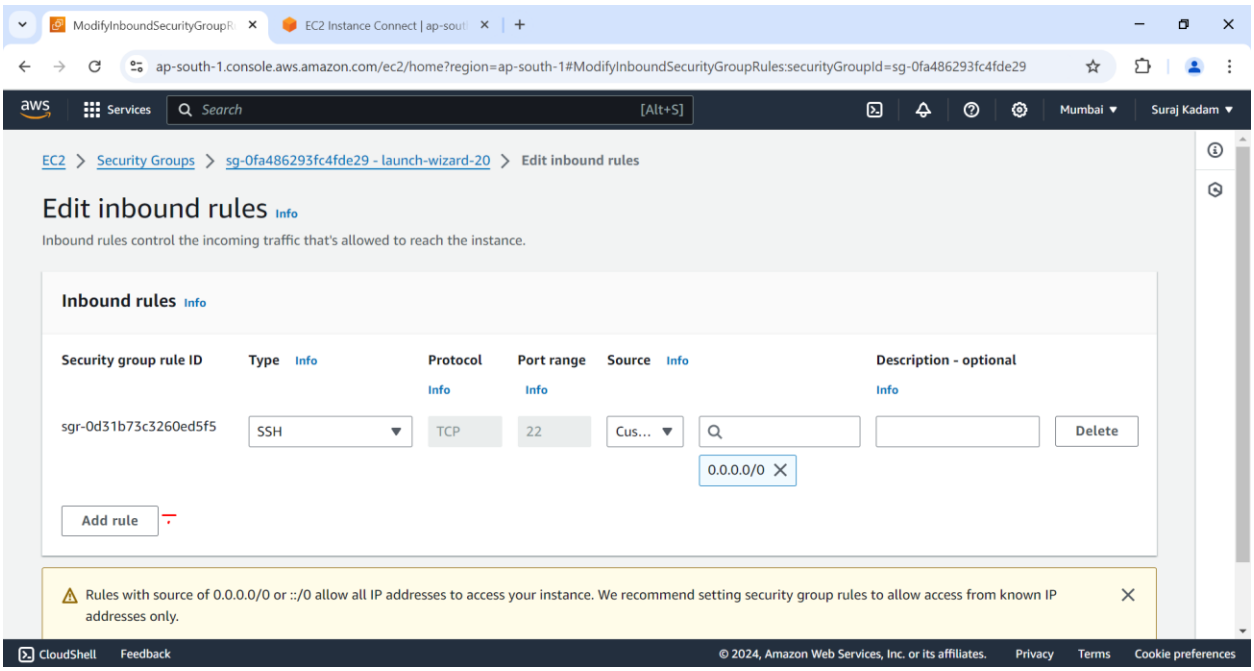
Step – 17: Start Jenkins as a service

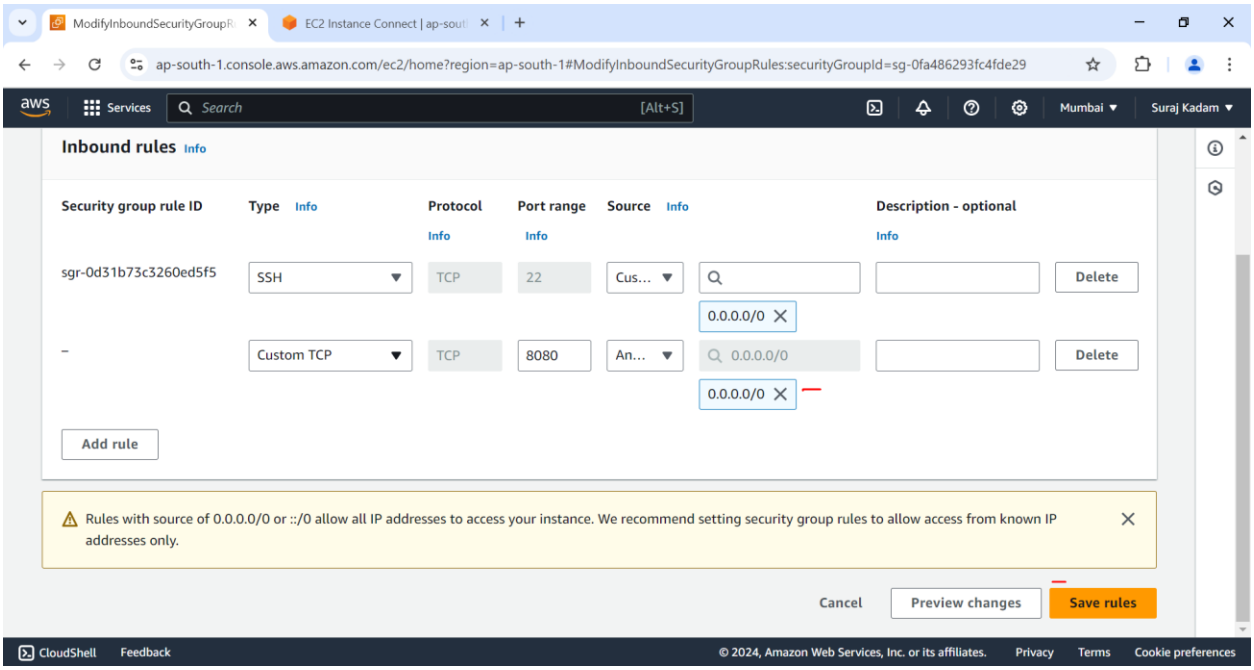
```
$ sudo systemctl start jenkins
```



Step-18: Still, we are not able to access the service, so we must Open security group of our Jenkins VM



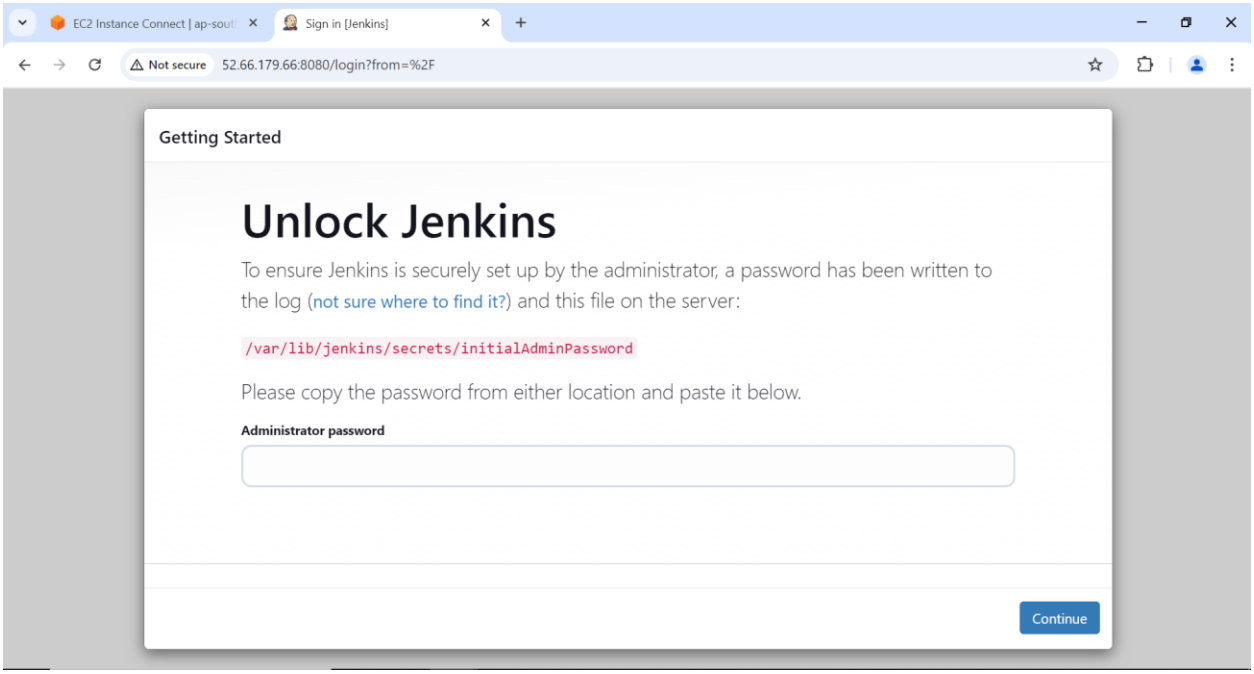


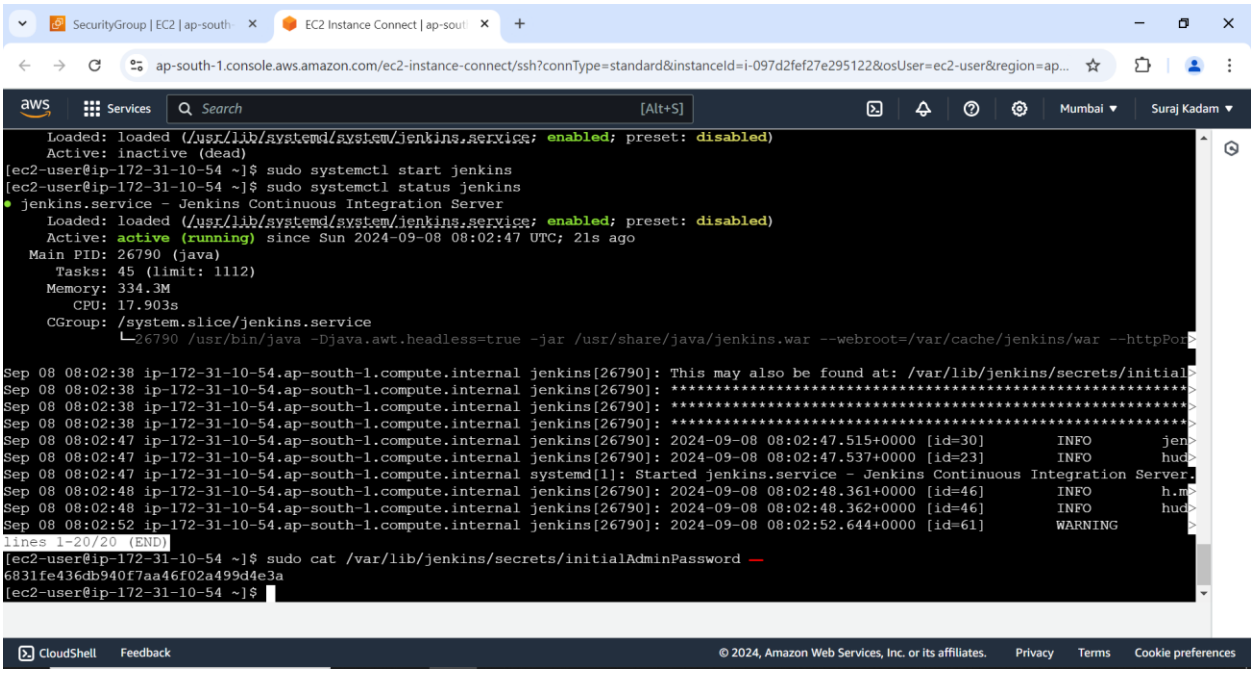


Save rules

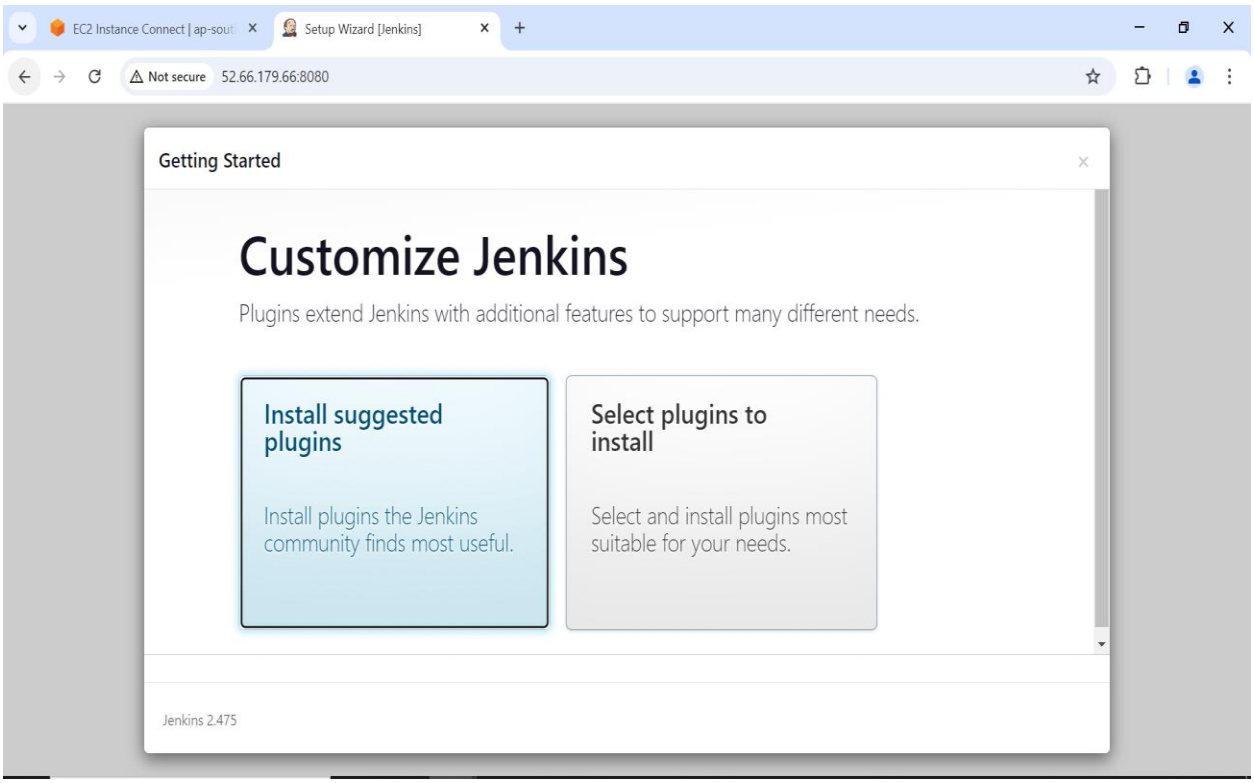
Step –19: To unlock Jenkins we need an admin password we can copy using the below command.

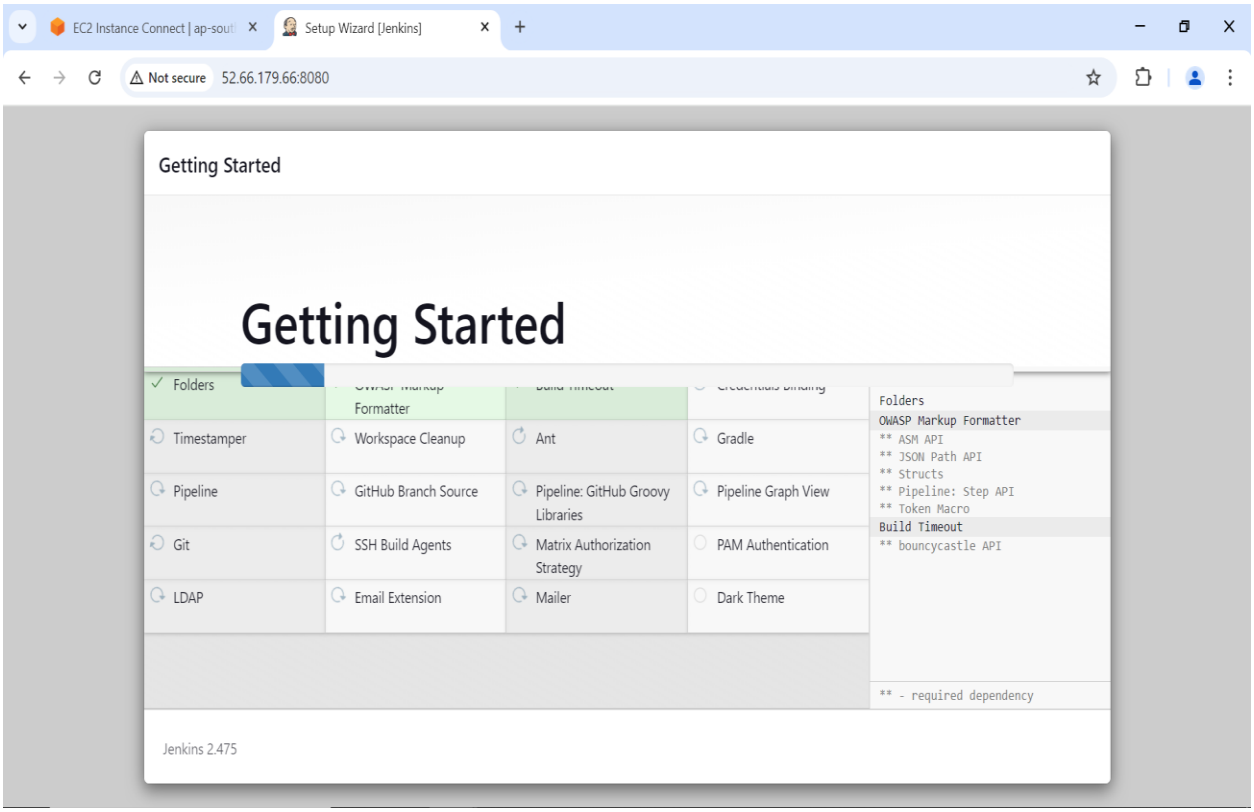
sudo cat /var/lib/jenkins/secrets/initialAdminPassword



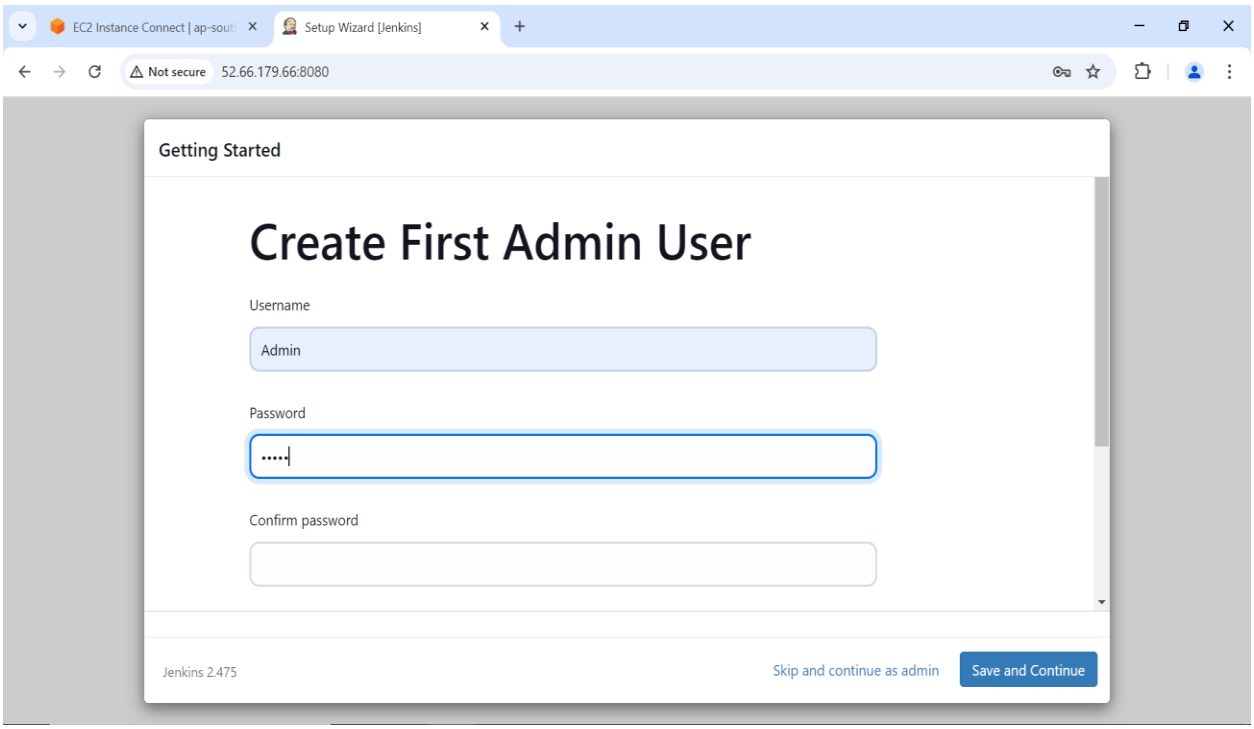


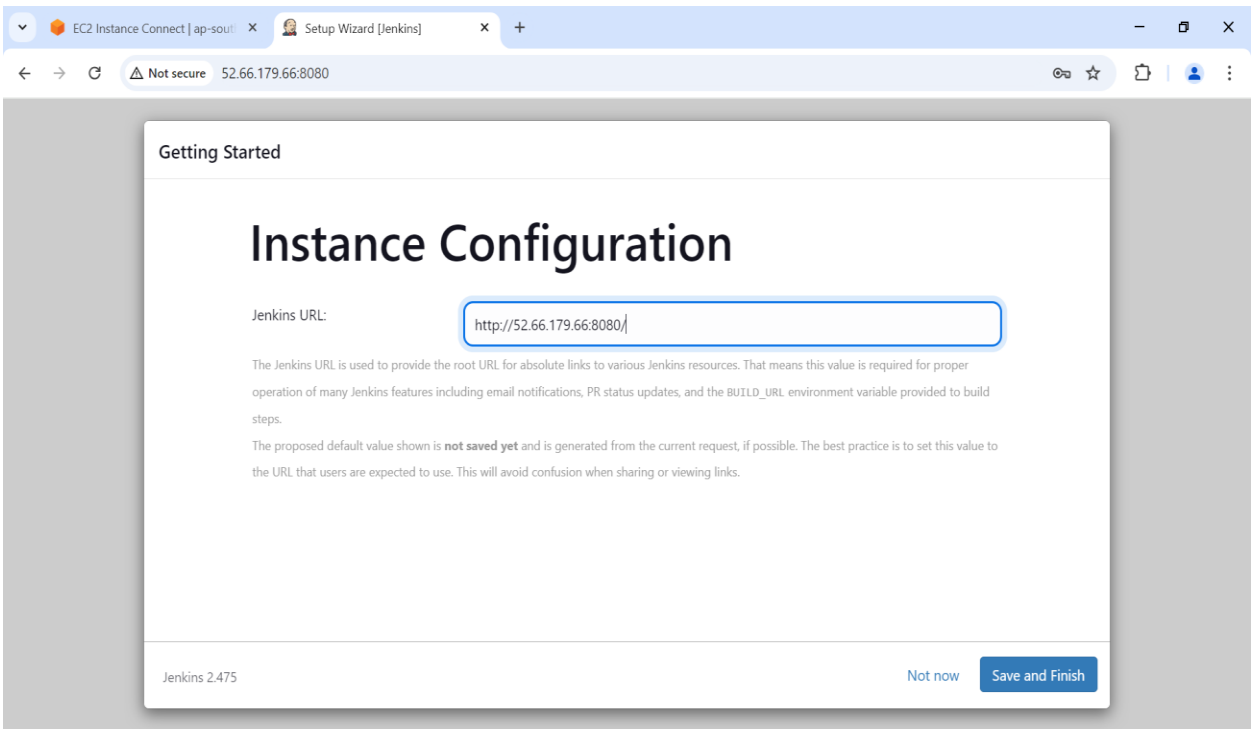
Step- 20: Click on install suggested plugins

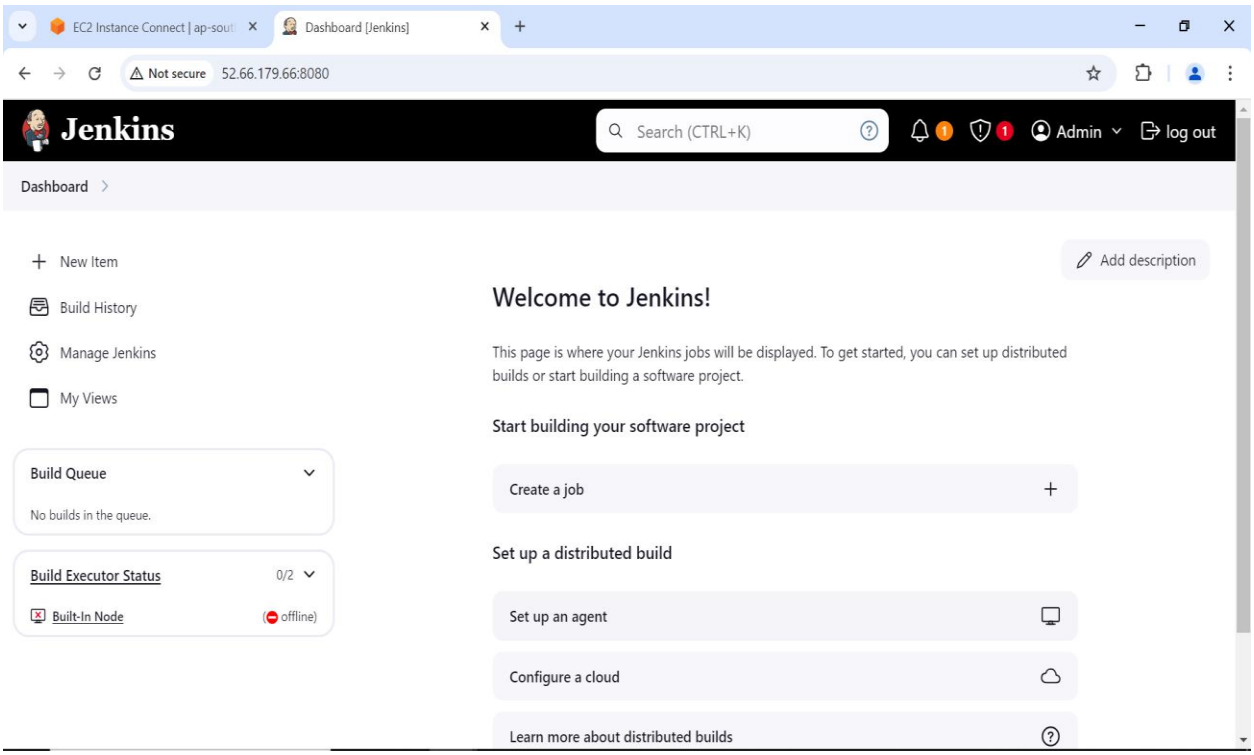




Step – 21: Create admin User Account


EC2 Instance Connect | ap-sout
Setup Wizard [Jenkins]
Not secure
52.66.179.66:8080
Getting Started
Create First Admin User
Username
Admin
Password
Confirm password
Jenkins 2.475
Skip and continue as admin
Save and Continue


EC2 Instance Connect | ap-sout
Setup Wizard [Jenkins]
Not secure
52.66.179.66:8080
Getting Started
Instance Configuration
Jenkins URL:
http://52.66.179.66:8080/
The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD_URL environment variable provided to build steps.
The proposed default value shown is not saved yet and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.
Jenkins 2.475
Not now
Save and Finish


EC2 Instance Connect | ap-sout
Dashboard [Jenkins]
Not secure
52.66.179.66:8080
Jenkins
Search (CTRL+K)
Admin
log out
Dashboard
New Item
Build History
Manage Jenkins
My Views
Build Queue
No builds in the queue.
Build Executor Status
0/2
Built-In Node
offline)
Add description
Welcome to Jenkins!
This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.
Start building your software project
Create a job
Set up a distributed build
Set up an agent
Configure a cloud
Learn more about distributed builds