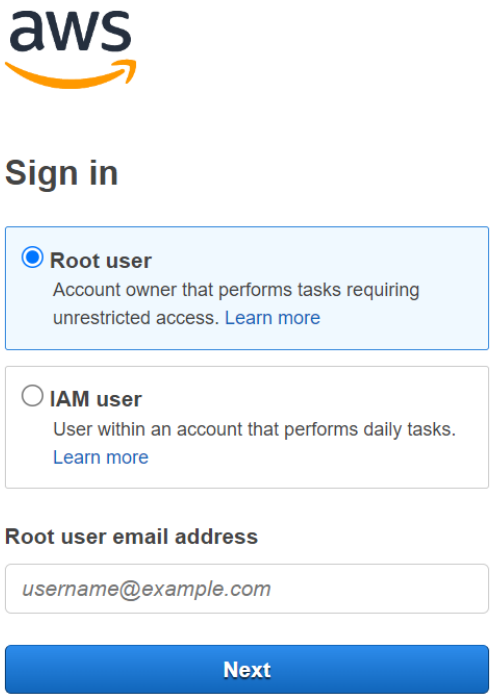
Jenkins Setup

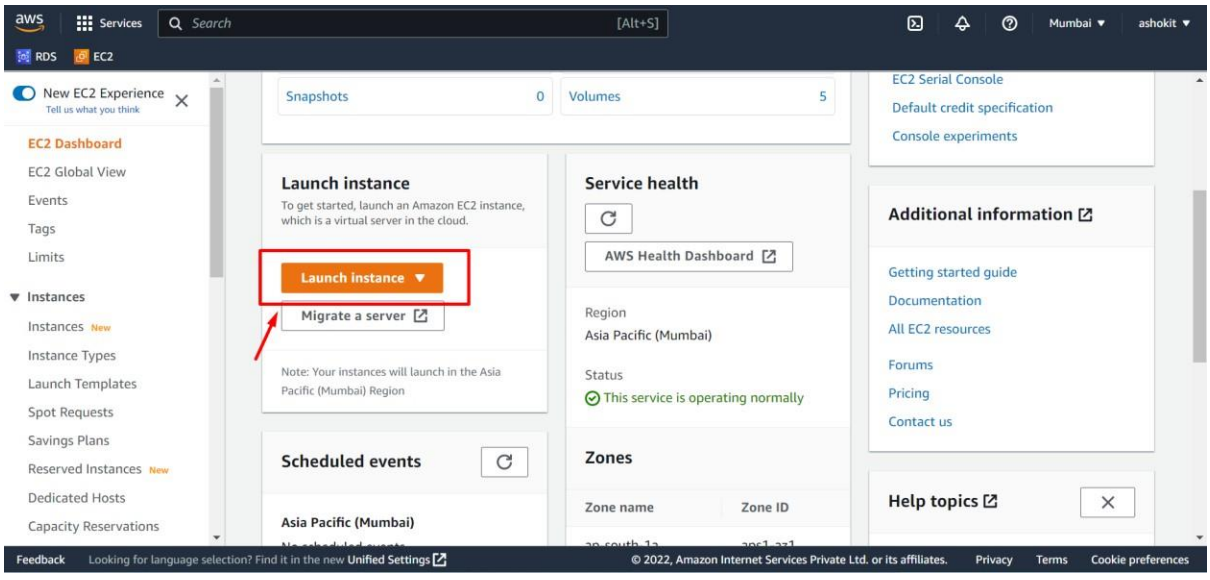
By

Mr. Nandeesh

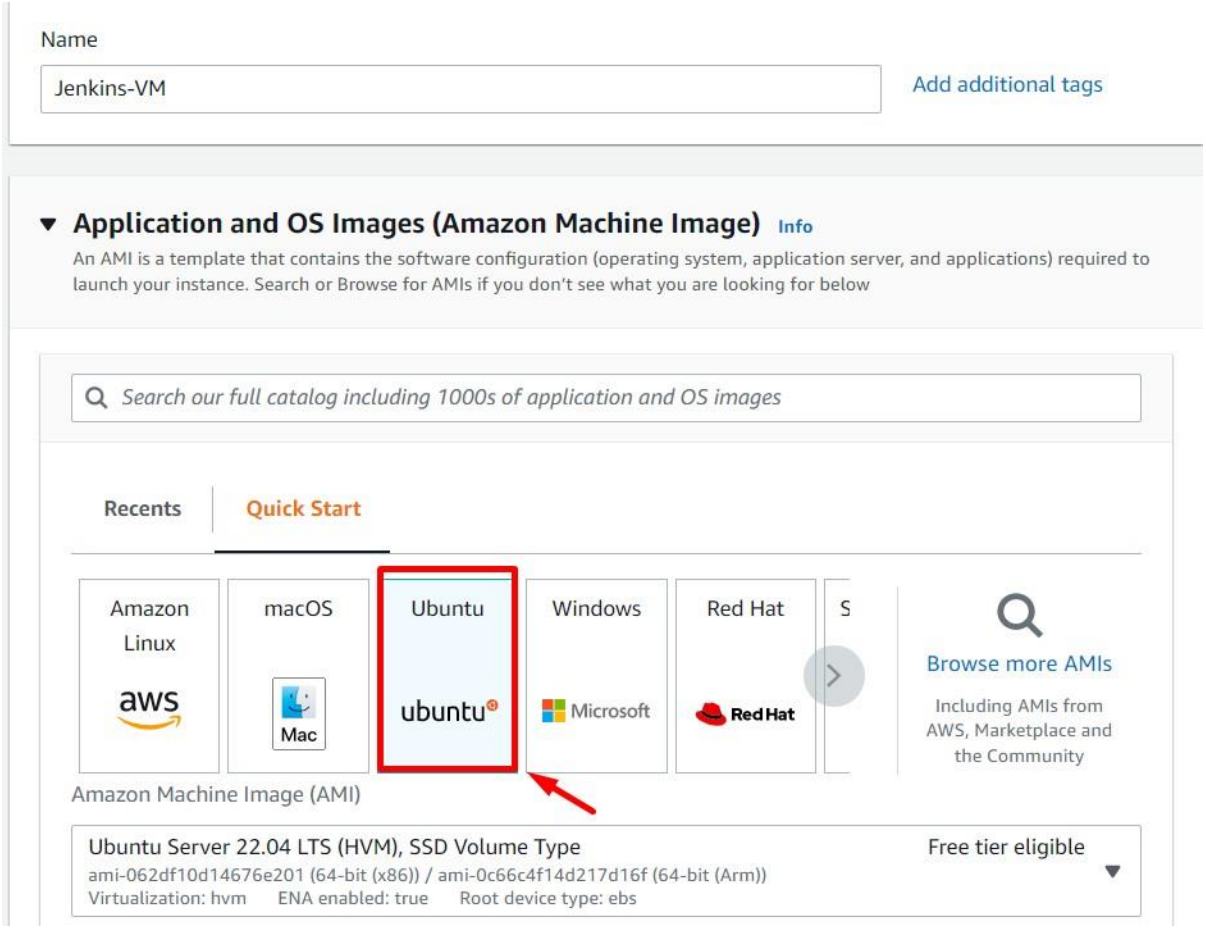
Step - 1: Login into your AWS cloud account and navigate to EC2 service



Step - 2: Click on 'Launch Instance'



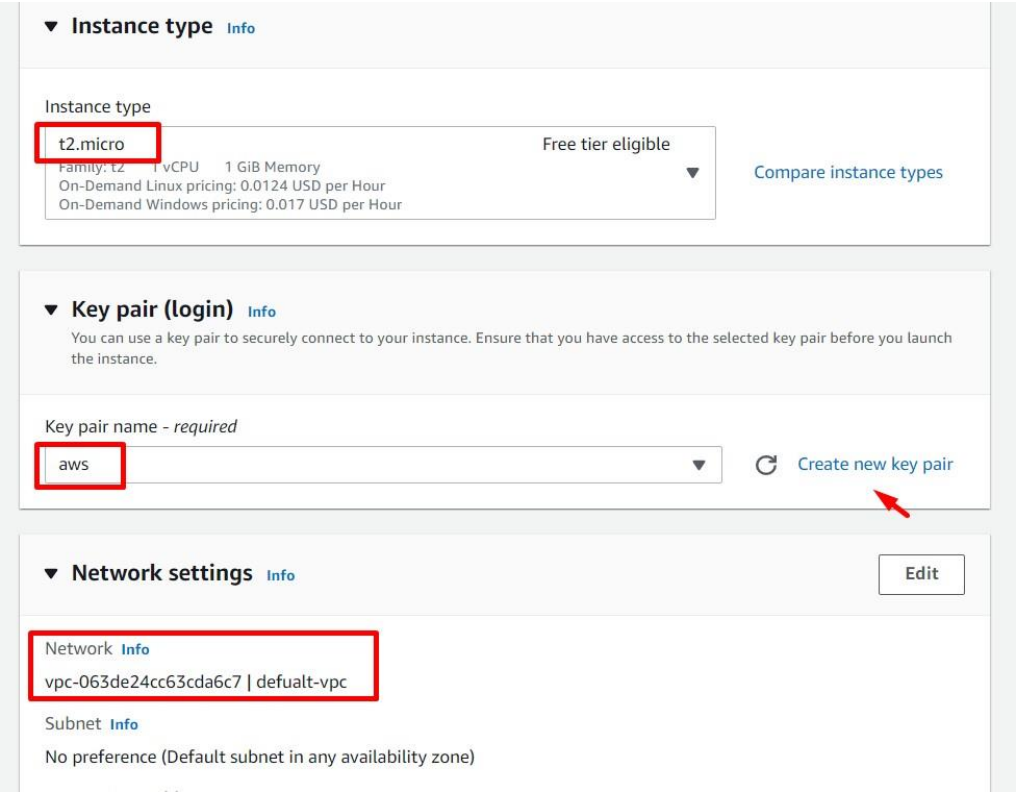
Step - 3 : Give name for instance and select AMI (I am selecting UBUNTU AMI)



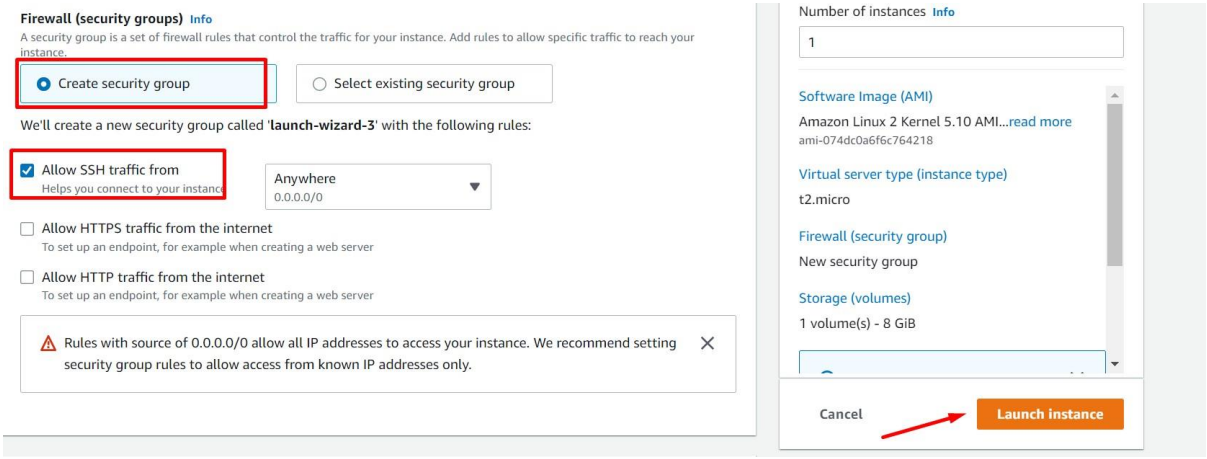
Step - 4 : Keep instance type as t2.mico (it is free tier eligible) and select Key Pair.

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

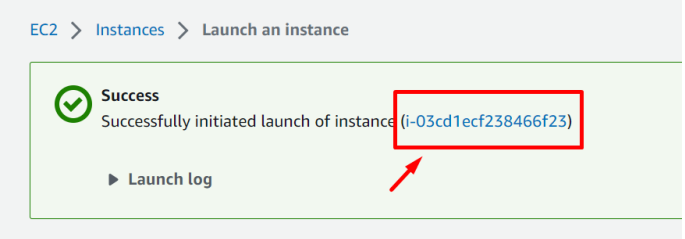
(When we create new key pair it will down .pem file. Keep it safely. We need that .pem file to connect with the machine using SSH)



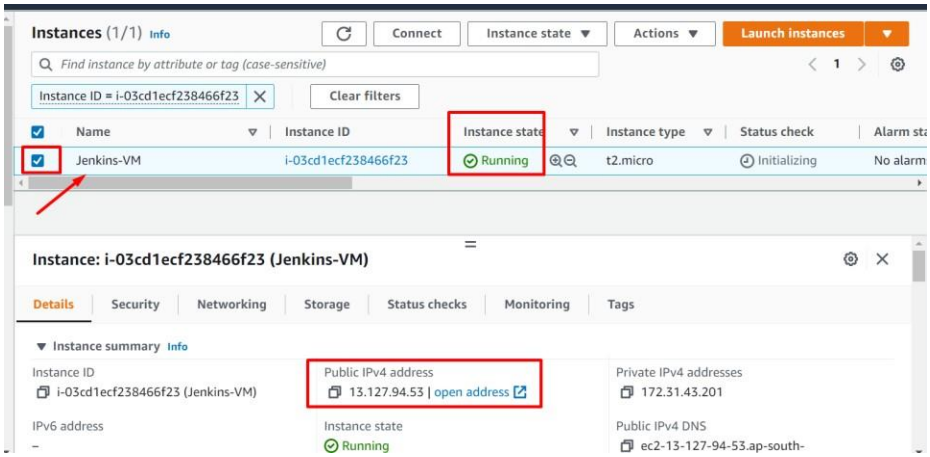
Step - 5 : Select Security Group Settings to allow SSH traffic and click on 'Launch Instance' button



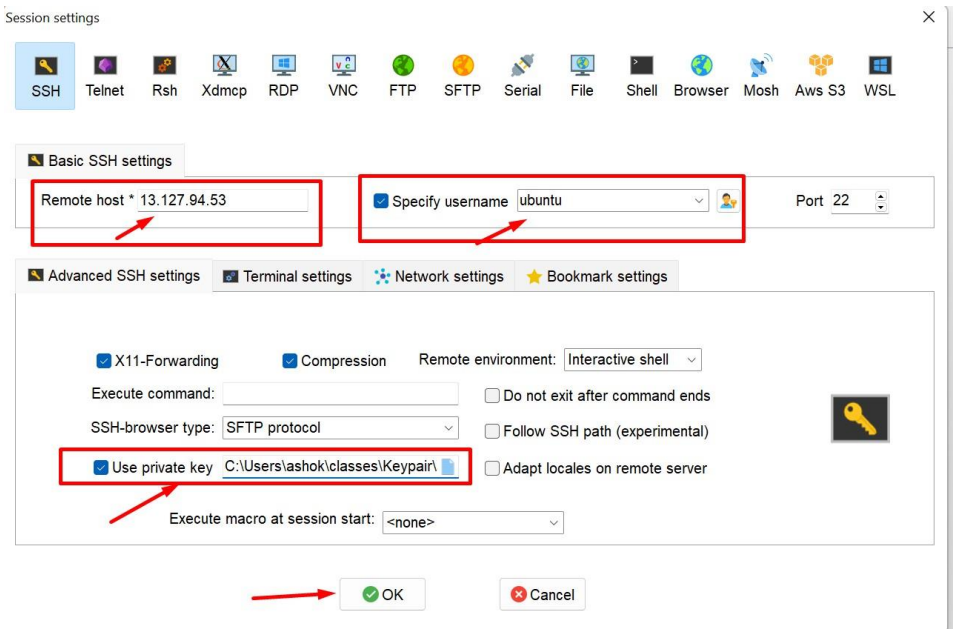
Step - 6 : Once instance got created then click on instance id which is showing like below.



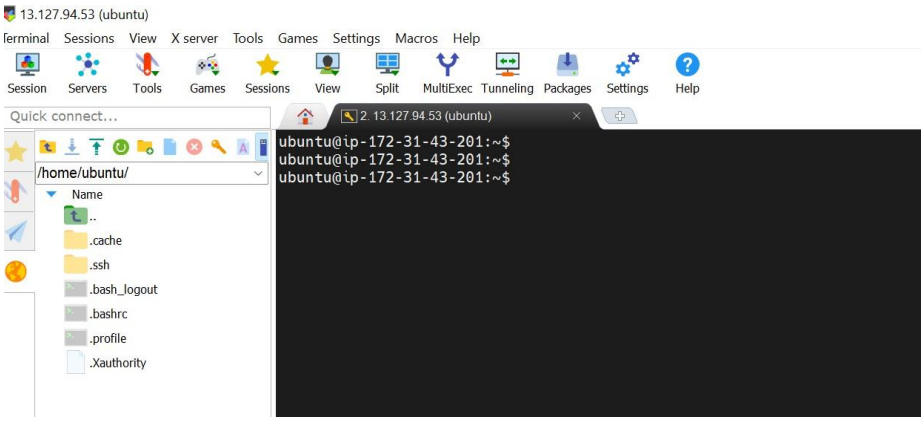
Step - 7 : Select Instance name checkbox and see Public IP of the instance.



Step – 8: Open MobaXterm software and Connect to Jenkins VM

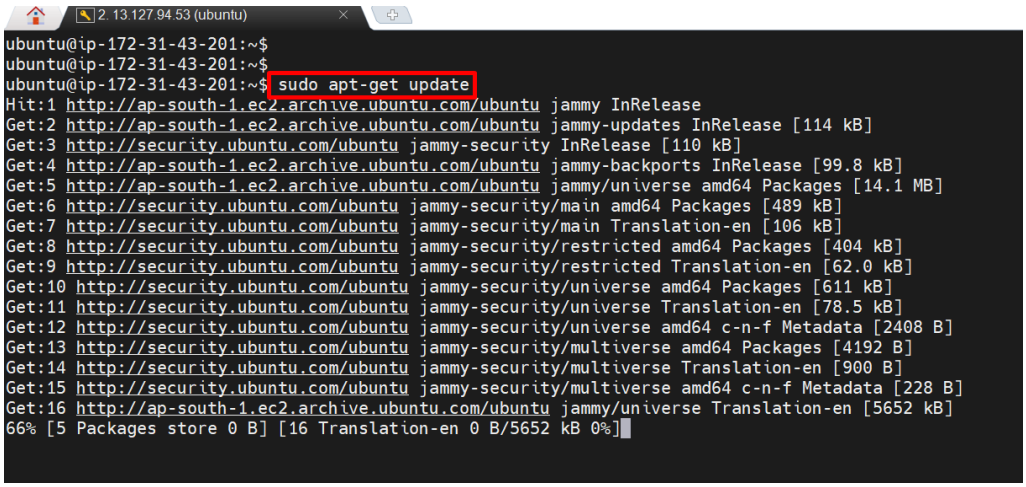


Note: After successful connection with Virtual Machine, we can see below terminal

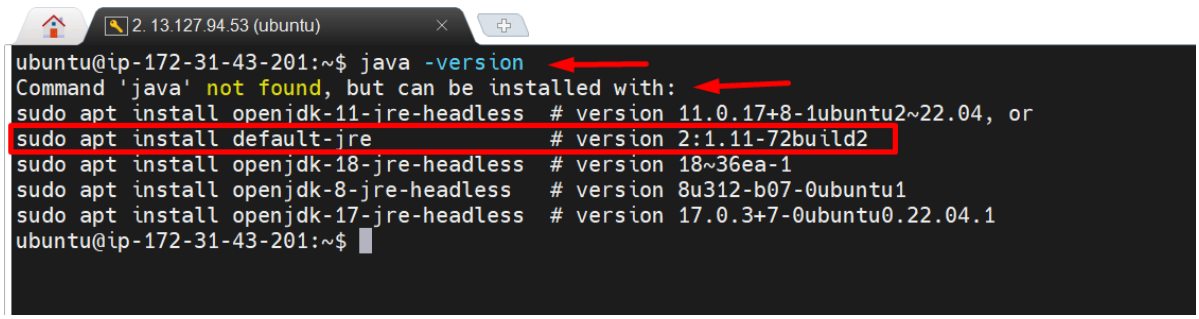


Step – 9 : Update packages using below command

$ sudo apt-get update

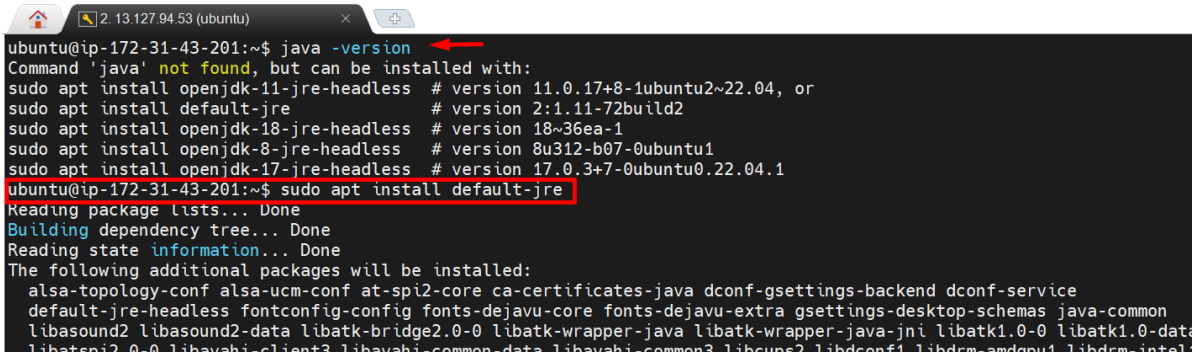


Step – 10 : Check Java version



Step – 11: Install Java using below command

$ sudo apt-get install default-jre



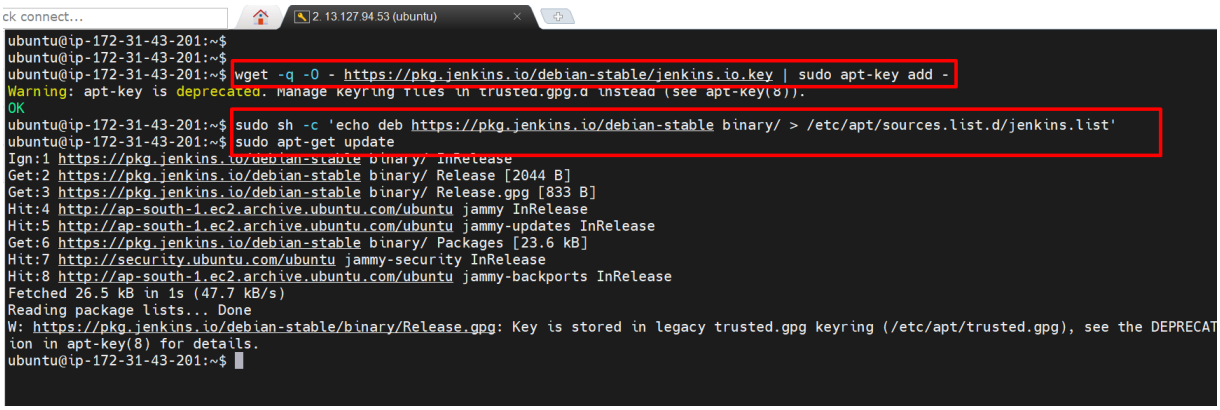
Step – 12 : Verify Java Version

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

$ wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo apt-key add -

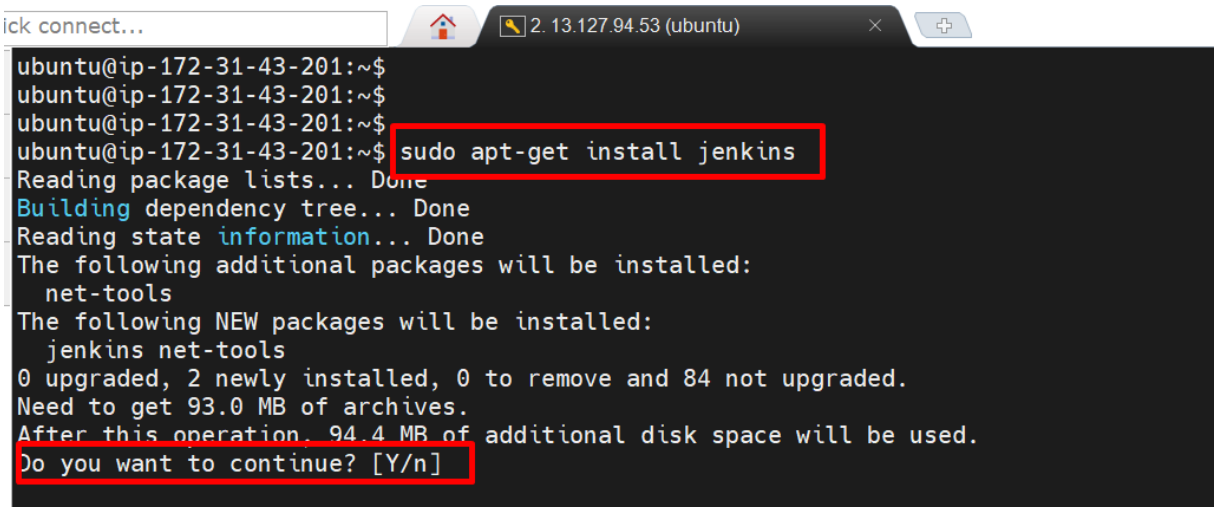
$ sudo sh -c 'echo deb https://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'

$ sudo apt-get update



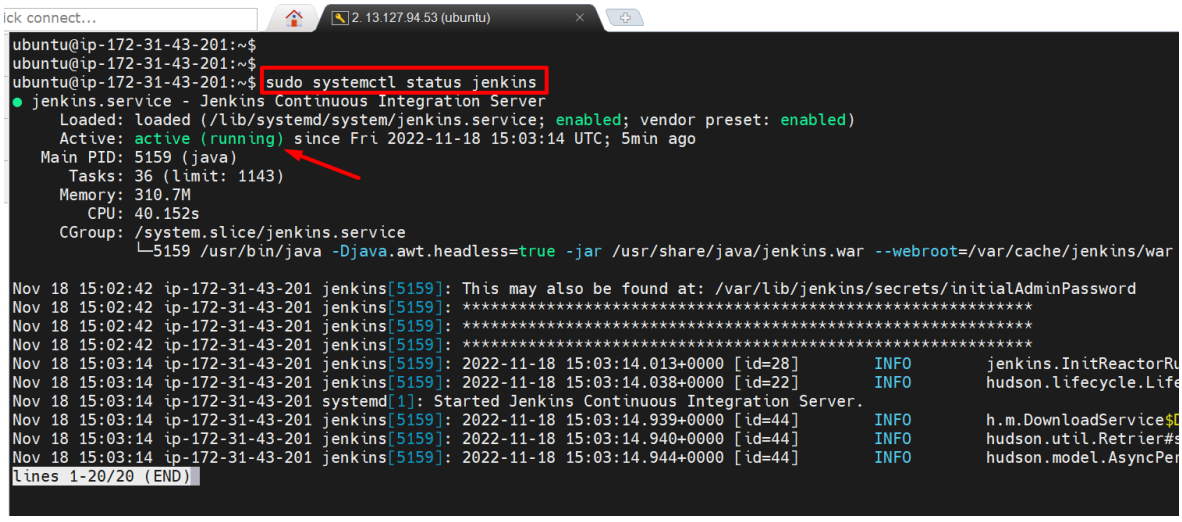
Step – 14 : Install Jenkins software using below command

$ sudo apt-get install jenkins

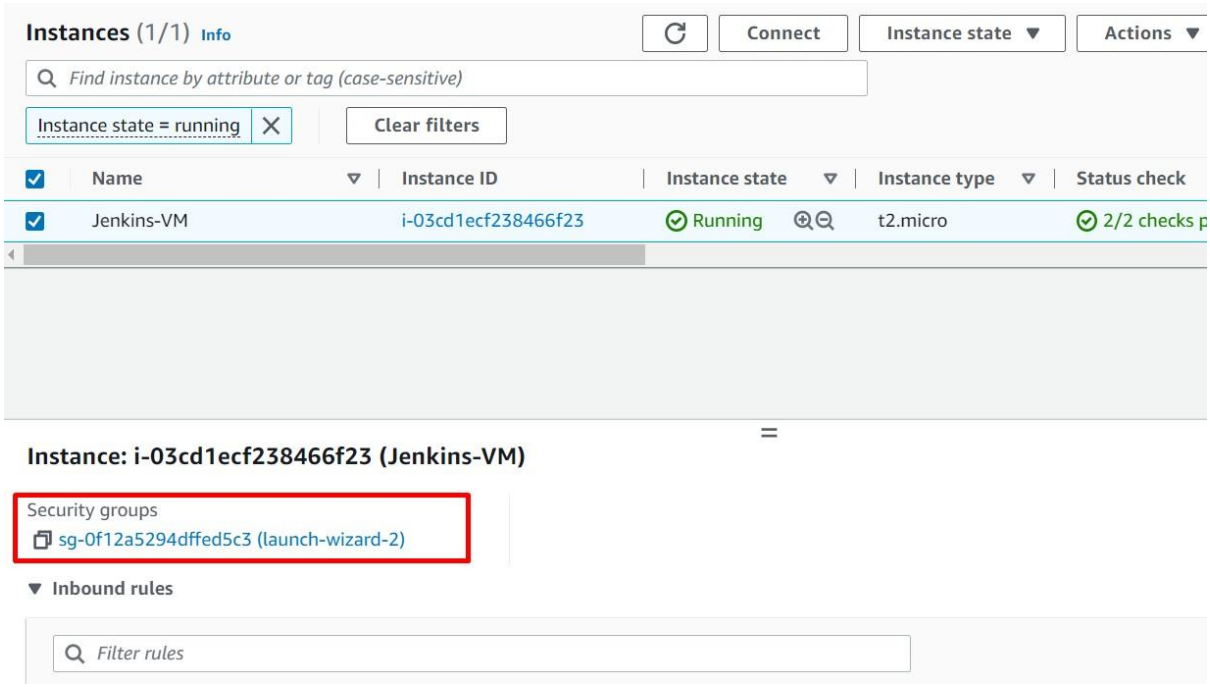


Step – 15 : Check status of Jenkins Server using below command

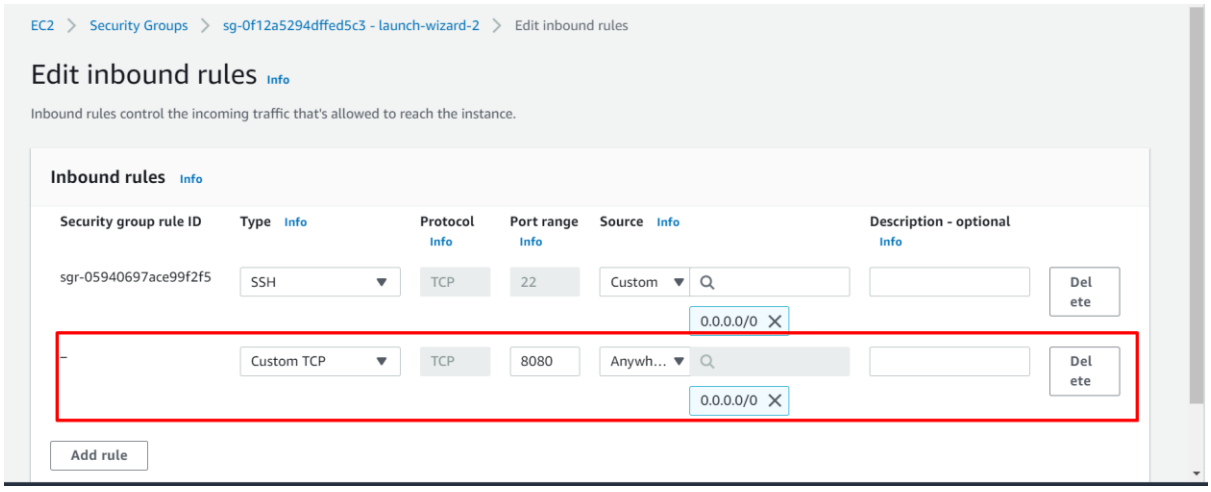
$ sudo systemctl status jenkins



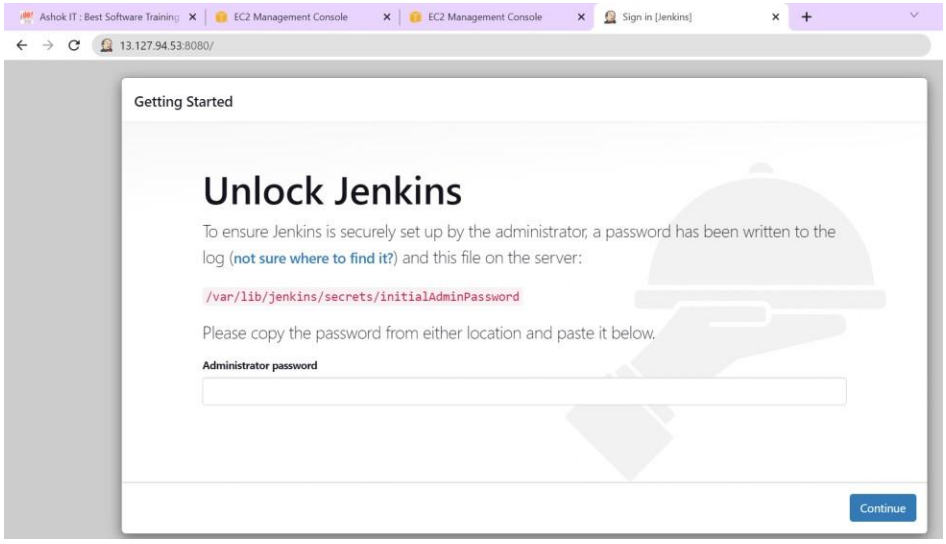
Step – 16 : Open Security Group of our JENKINS VM



Step – 17: Add below Inbound rule to allow 8080 protocol



Step – 18 : Access Jenkins Server in browser using public IP like below

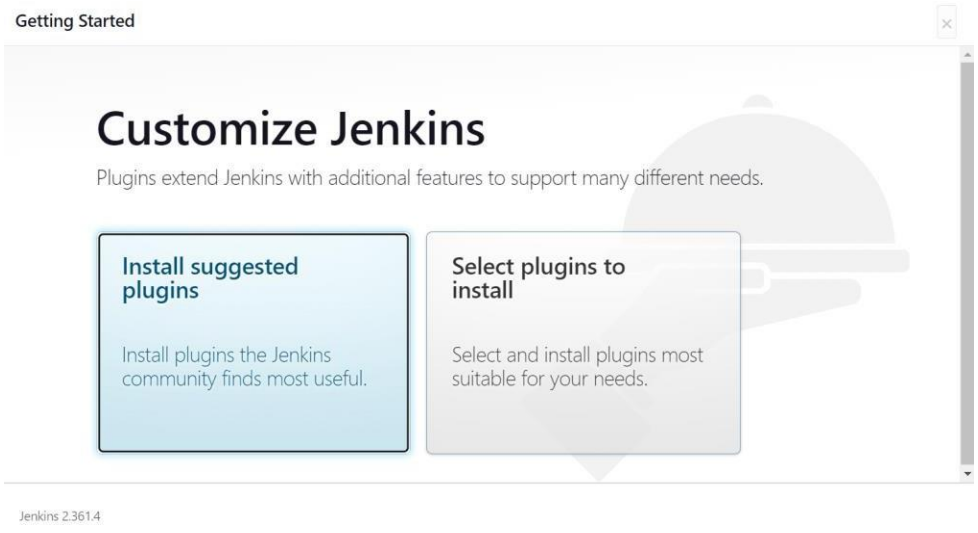


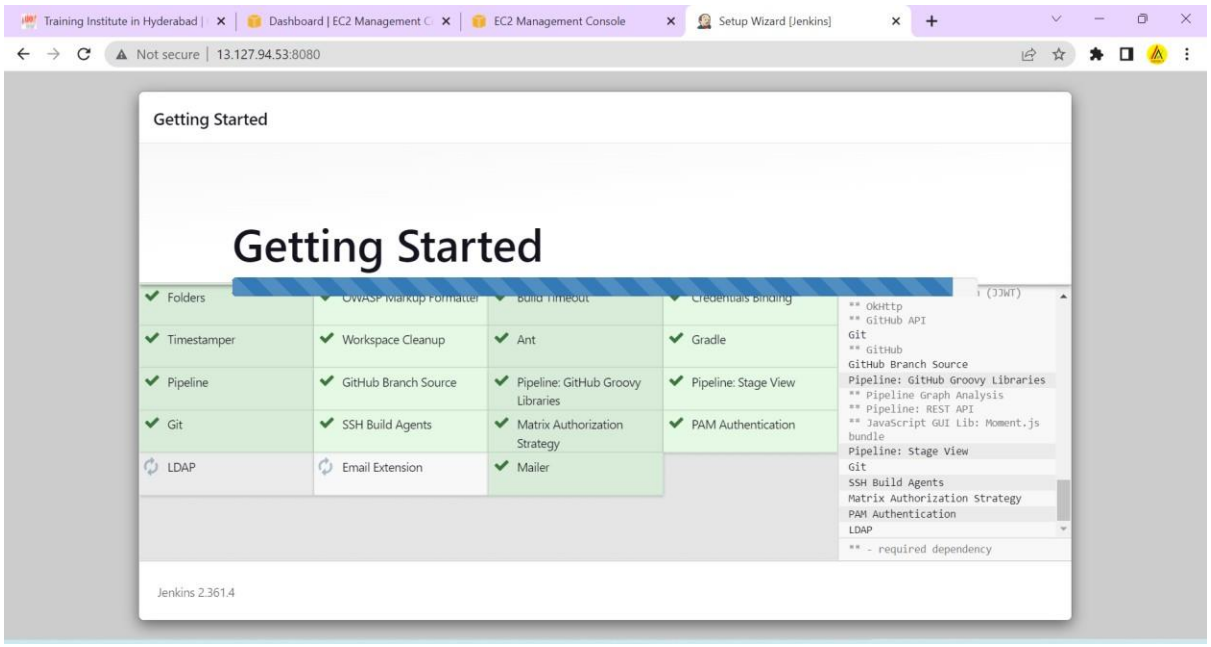
Step – 19 : To unlock Jenkins we need admin password; we can copy that using below command

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

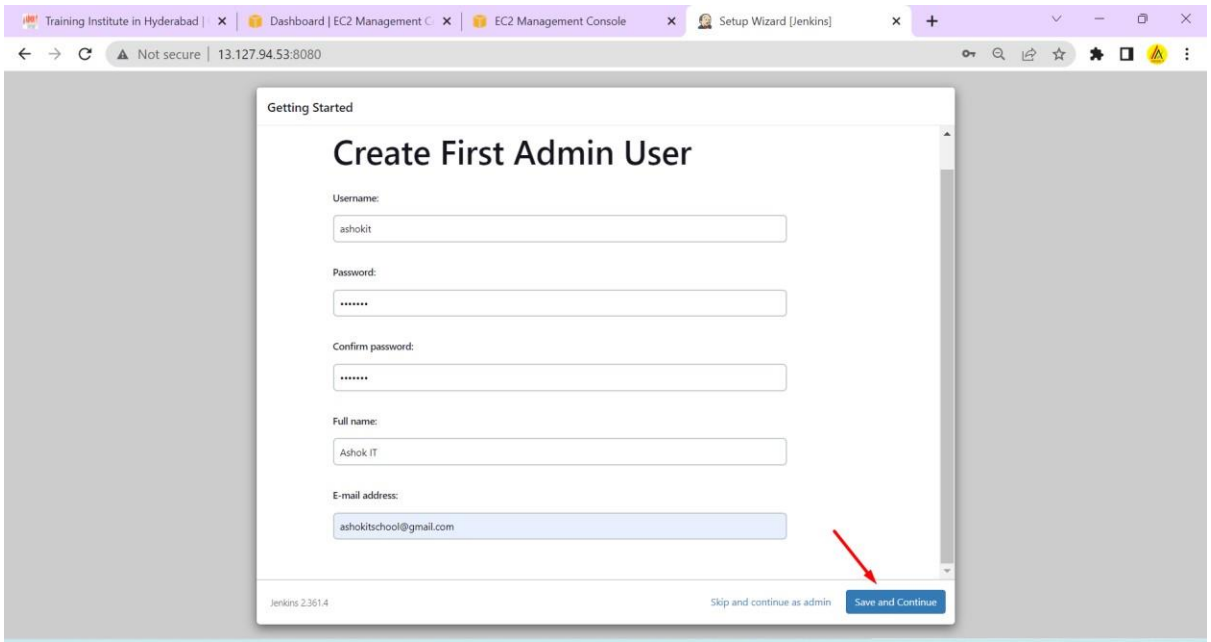
```
ubuntu@ip-172-31-43-201:~$
ubuntu@ip-172-31-43-201:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
ed634d751a774f959c5631fa85b8d20b
ubuntu@ip-172-31-43-201:~$
```

Step – 20 : Click on Install Suggested Plugins

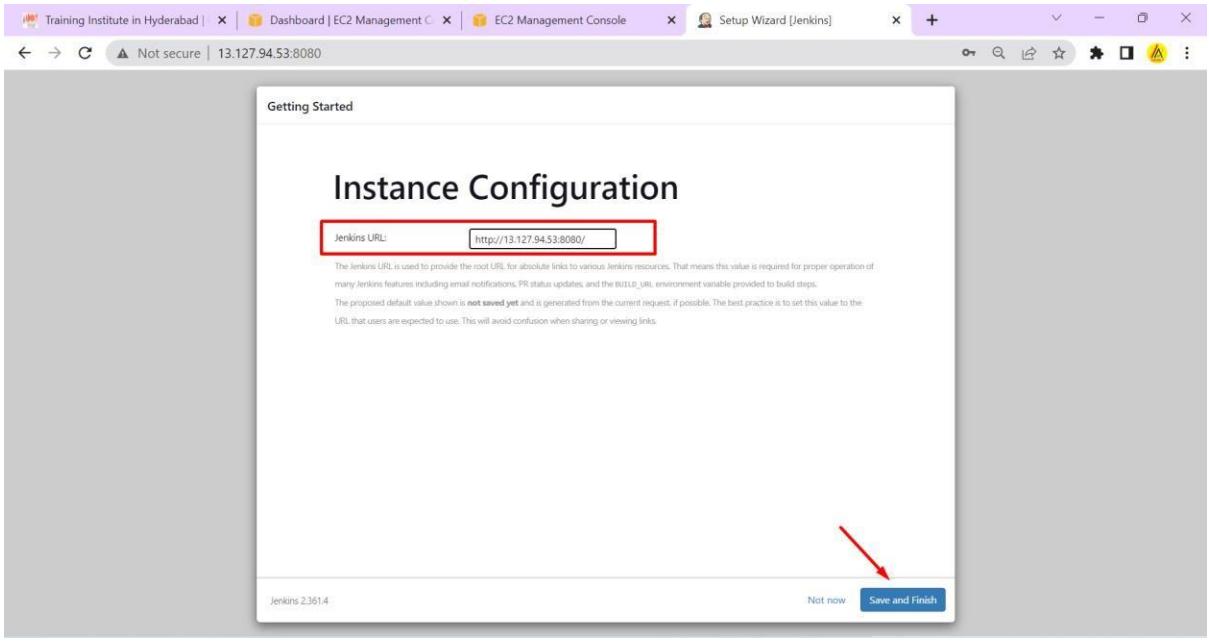




Step – 21 : Create Admin User account



Step – 22 : Just Save and Finish in below screen



Note: Once setup is completed, we can see Jenkins dashboard like below.