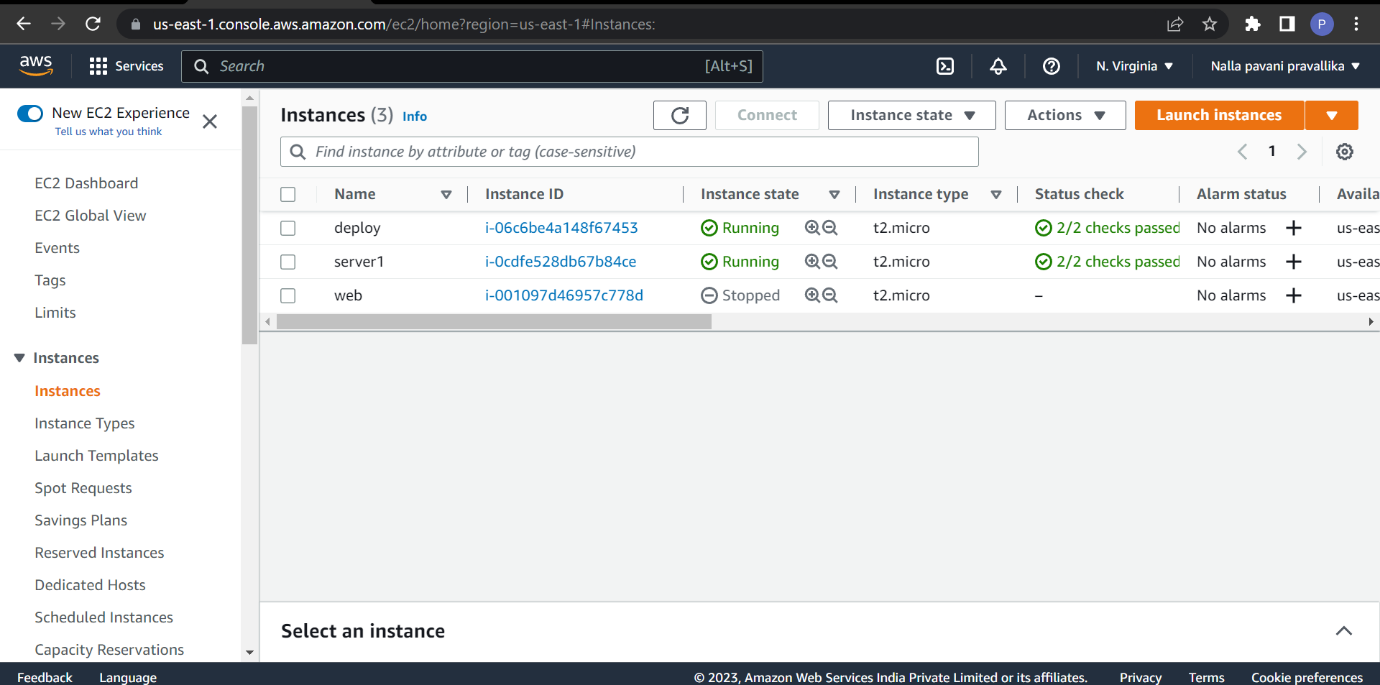
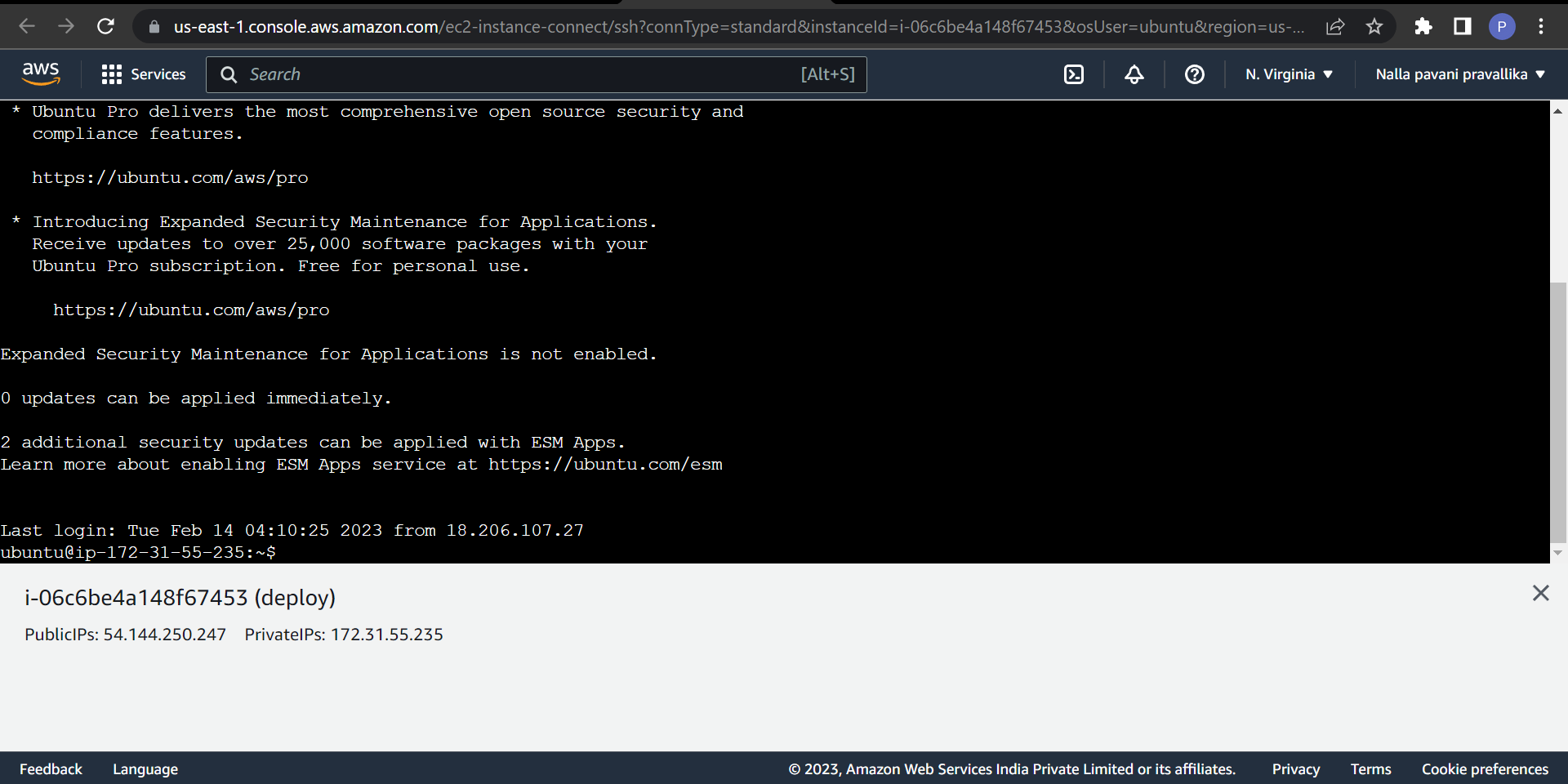
# Process for deploy in Jenkins

First we need to create two instances Using EC2 in AWS or VMWare.



Like above we create instances named deploy and server1.

First connect deploy instance and perform following commands one after other.



Sudo su

Sudo apt update

Sudo apt install openjdk-11-jdk -y

Java -version

Sudo apt-get install Jenkins

####Go to Long Term Support

###To get the URL right click on generic java package and click on copy link address.

###For Linux machine enter command wget and paste the url to download the file.

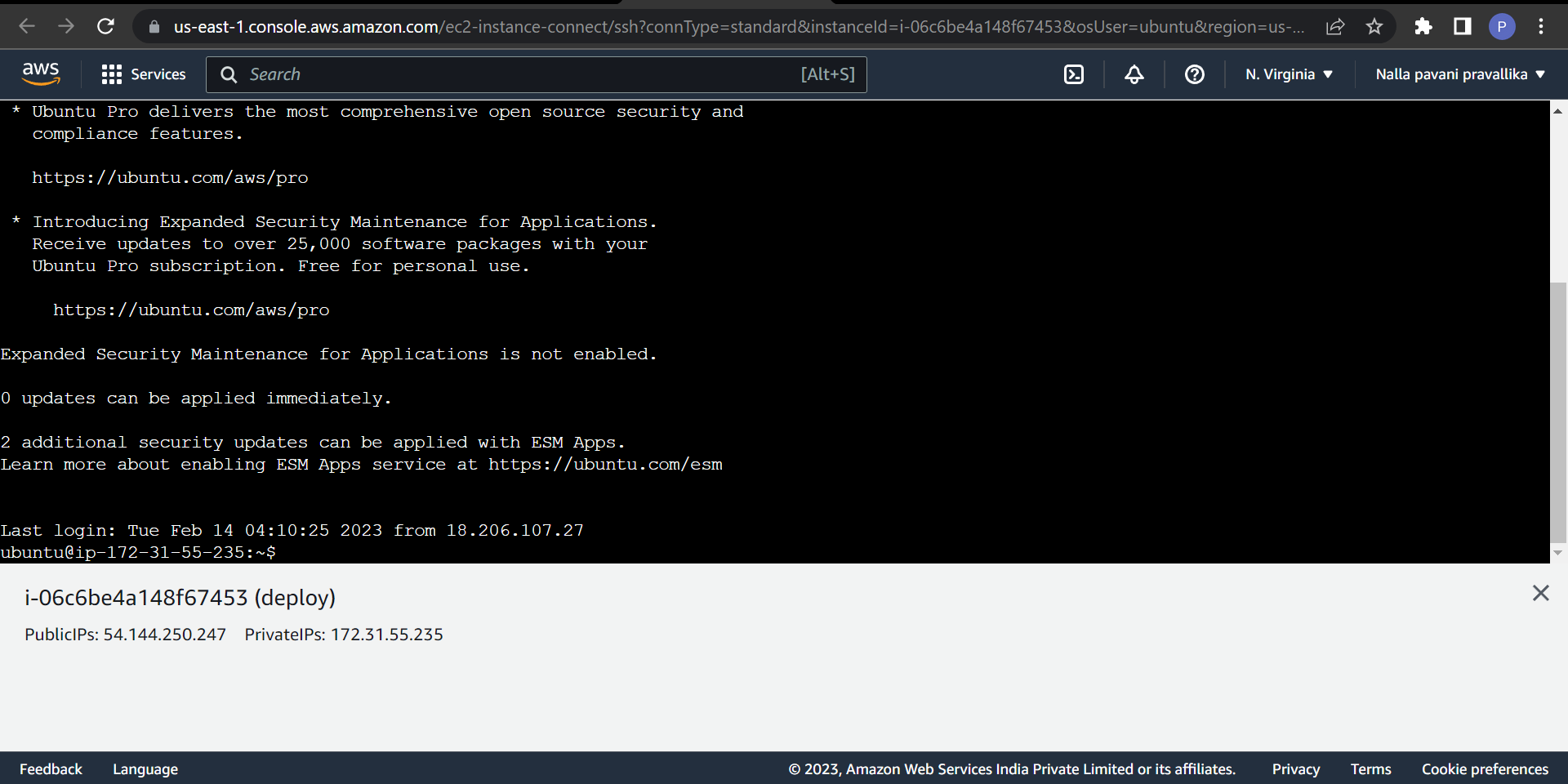
java -jar jenkins.war

After executing all above commands copy the public IP and paste it in a browser like IP:8080 and you will be directed to Jenkins Installation there you will be asking password ,simply paste the password.

And Jenkins installation will be done.

Create username and password.

Now connect the another instance server1.



Now perform following commands.

sudo apt-get update

sudo apt-get install tomcat9

sudo apt-get install tomcat9-admin

cd /etc/tomcat9/

ls

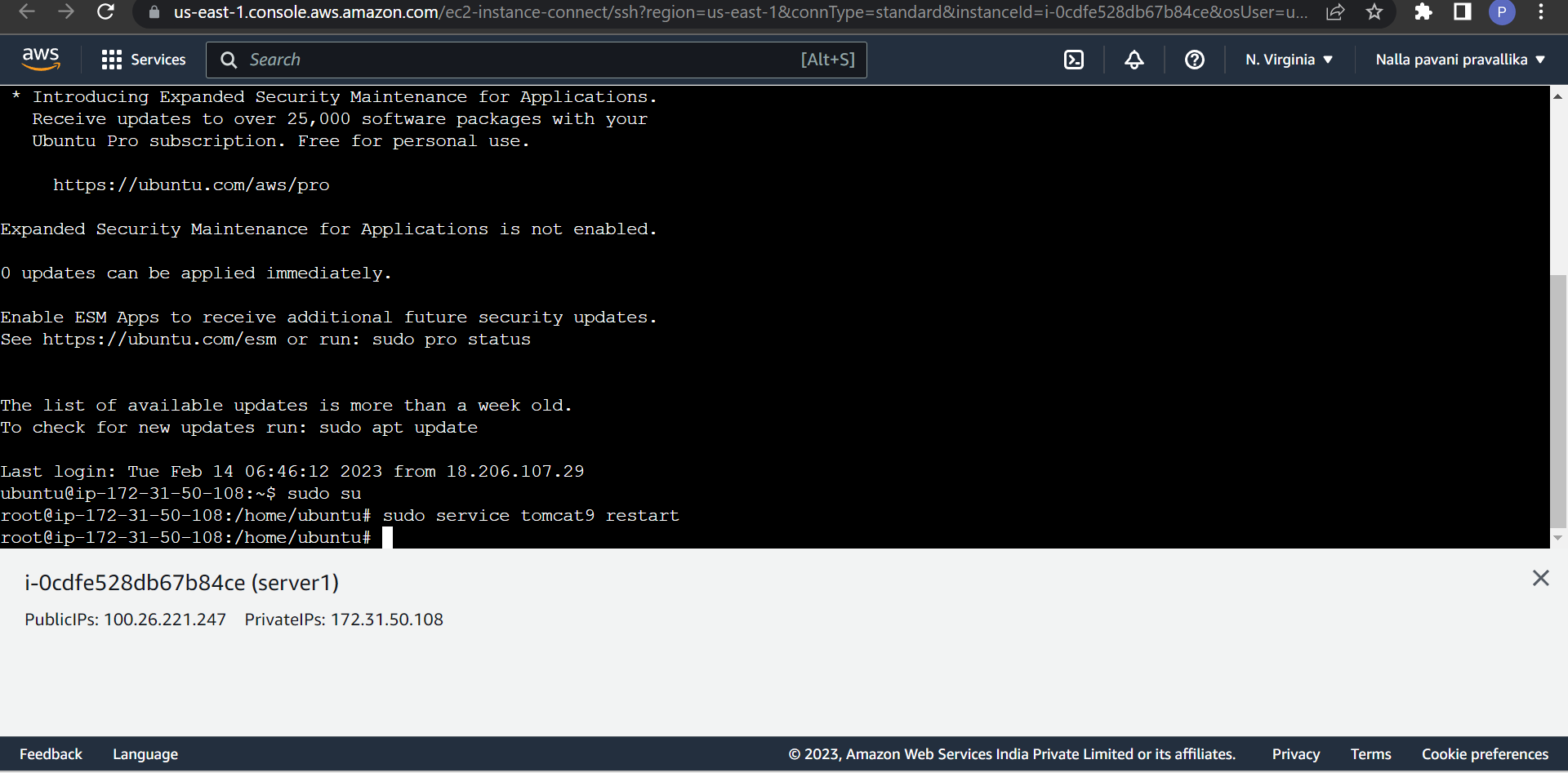
tomcat-users.xml

sudo vim tomcat-user.xml 🡪this command is for opening the file and edit with below text.

<user username="training" password="sunilsunil" roles="manager-script,manager-status,manager-gui"/>

And save the file by clicking escape and enter :wq.

sudo service tomcat9 restart



Now tomcat9 is successfully installed.

To deploy in Jenkins we first need repository in which we have sample web apps.

For that we need to clone some sample public repository to our local repository by executing following commands.

🡪git clone “repo link”

🡪do ls and check whether files are cloned are not.

🡪cd file name

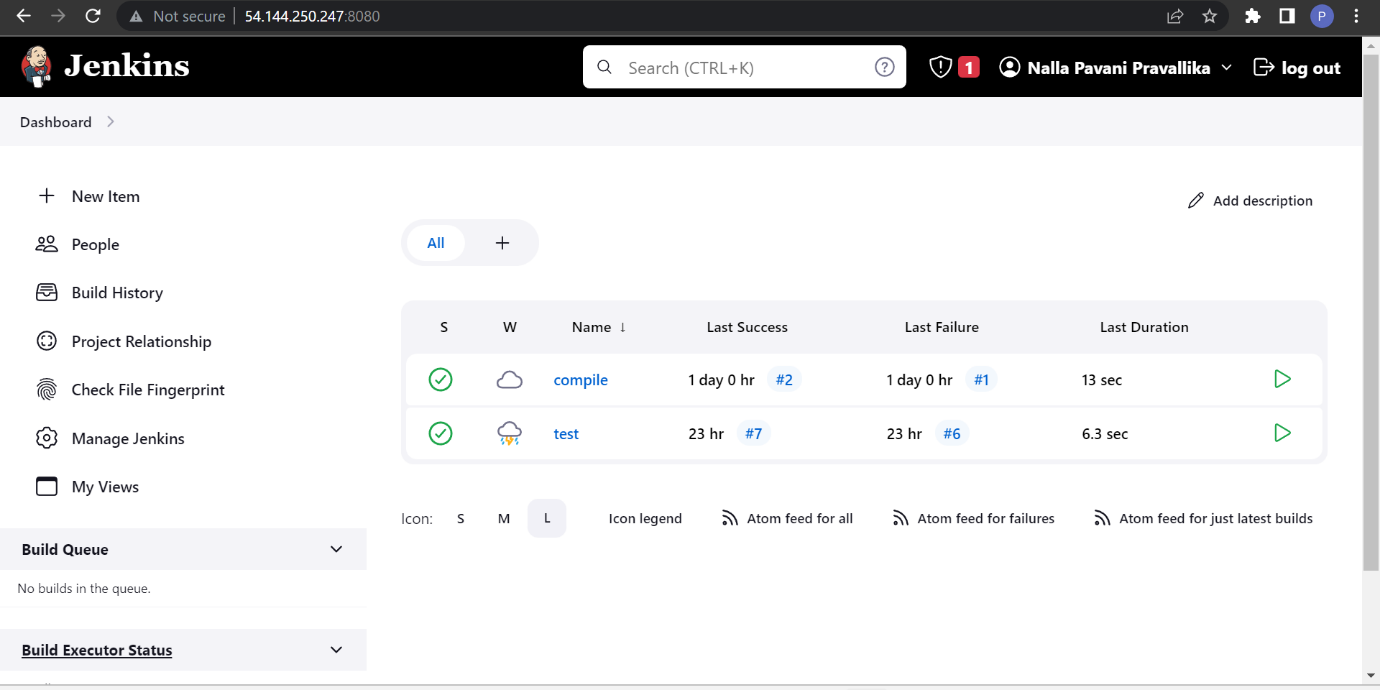
🡪add files by “git add .” all files will be added by using this command.

🡪now push the files to our repo

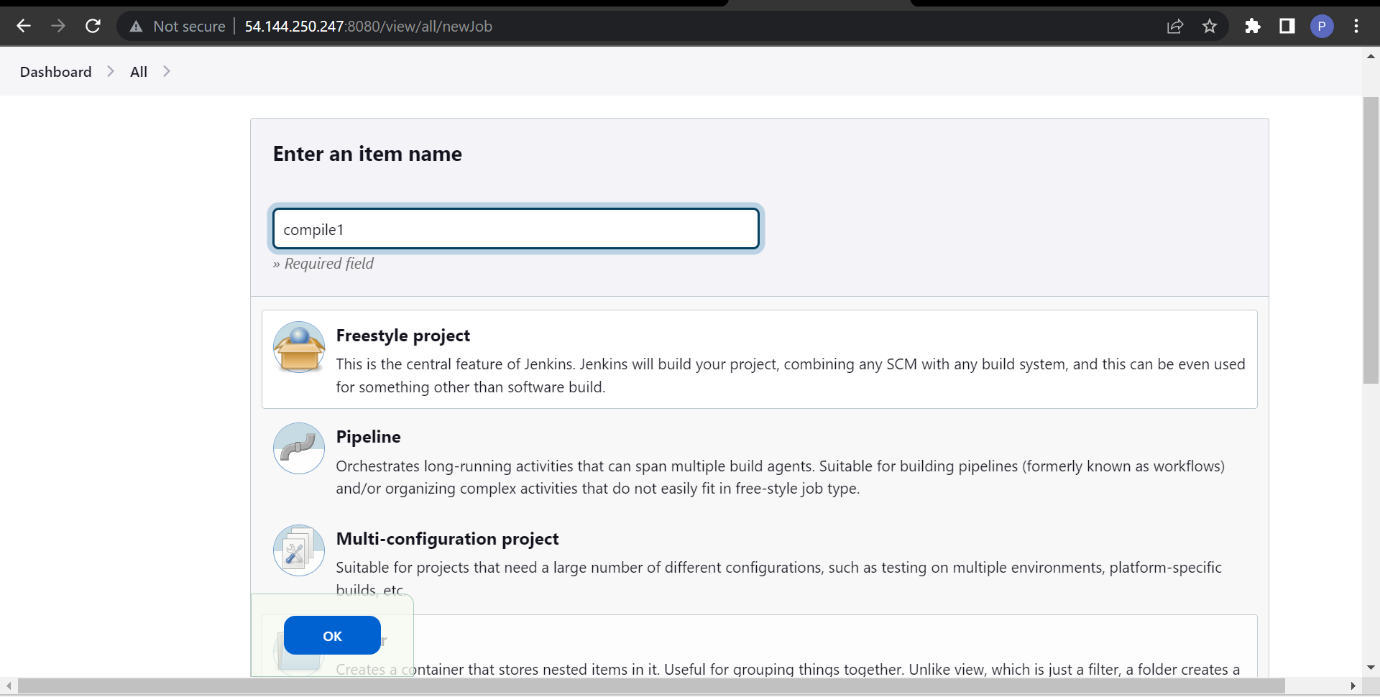
Git push “our repo link”

Now go to Jenkins dashboard and create job named compile by following below steps.

Click on new item which is left side.

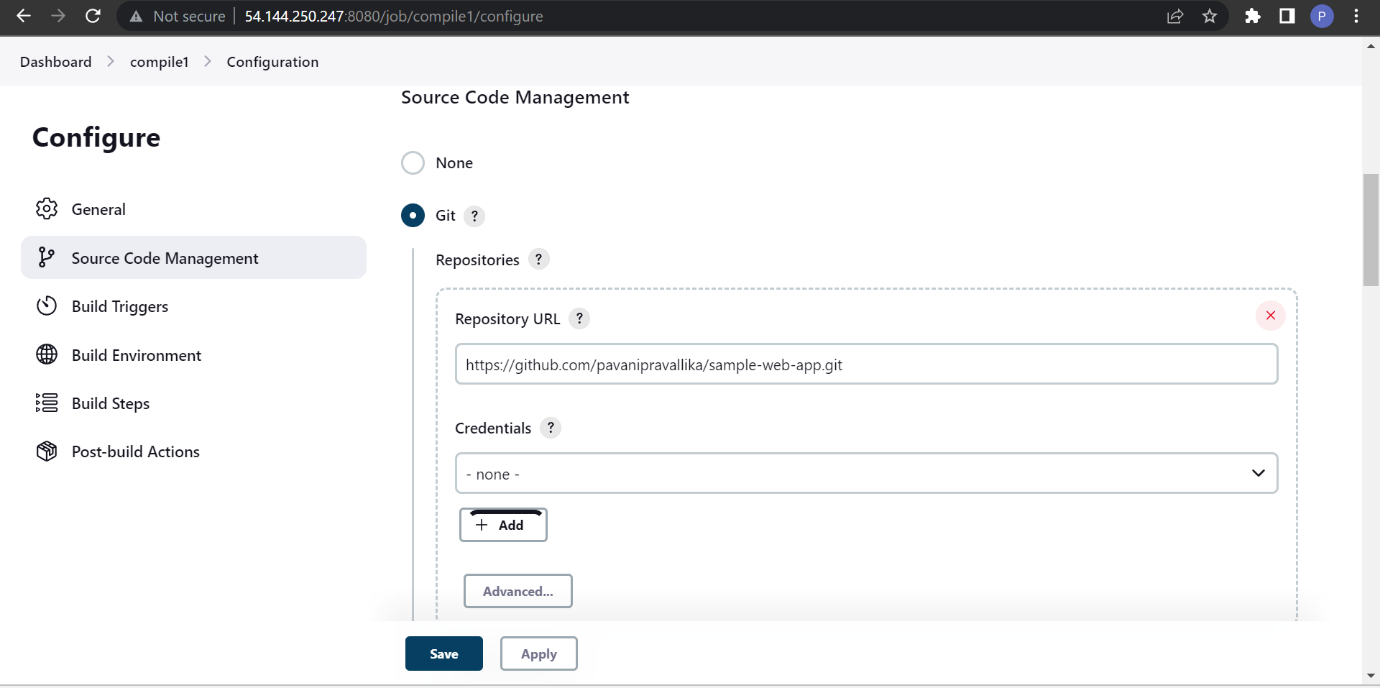


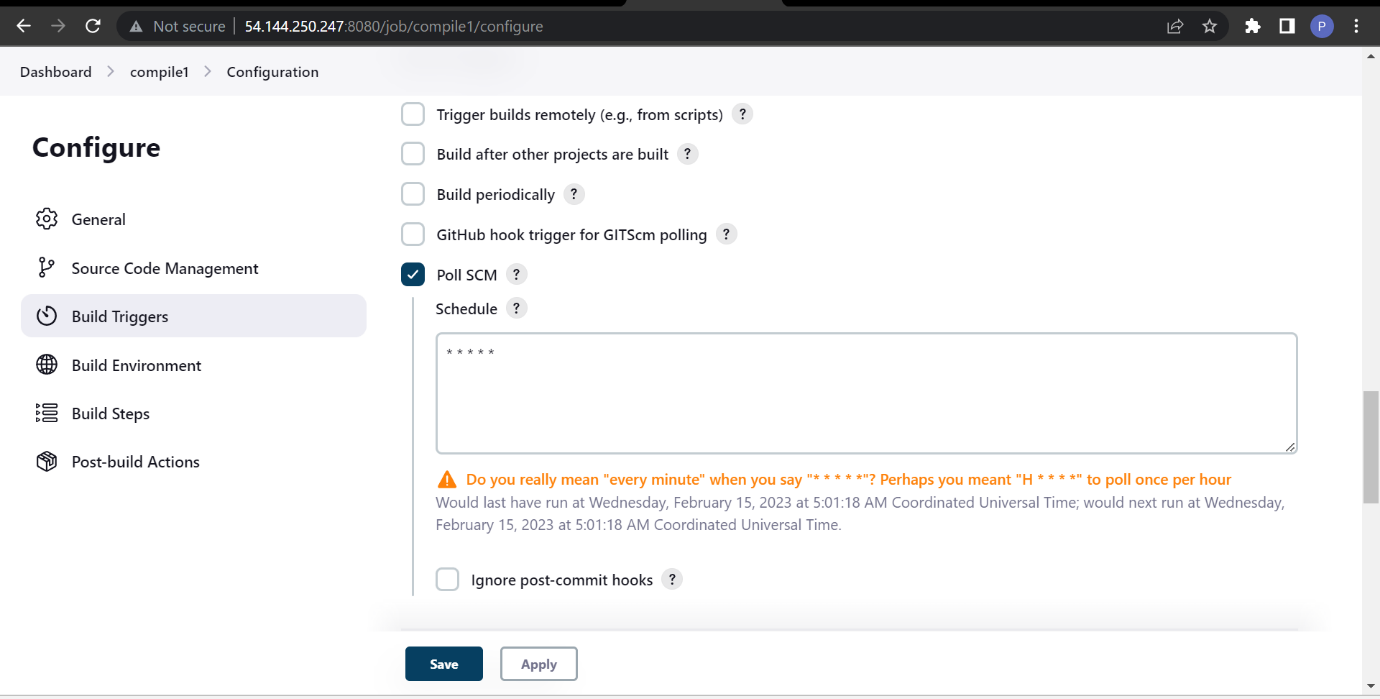
Give the item name and select freestyle project.

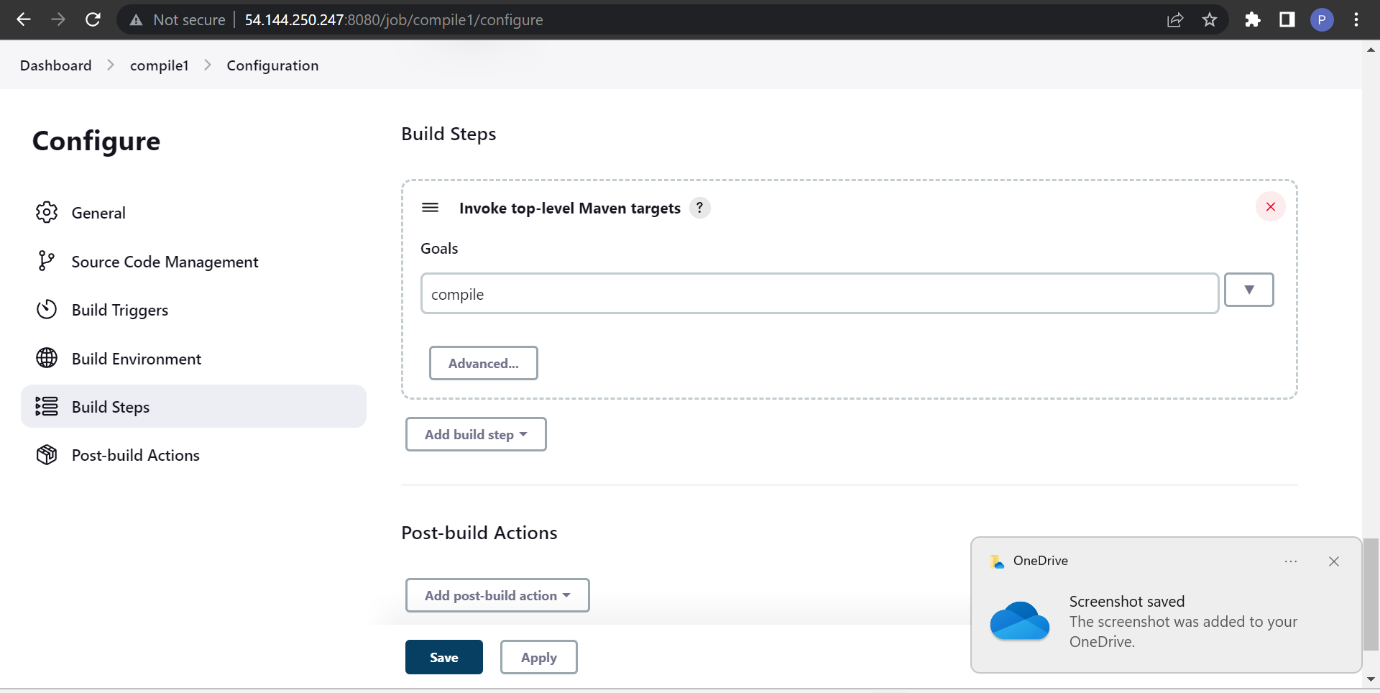


In source code management select git option and give repo link and in build triggers select pollscm and give \* \* \* \* \*.

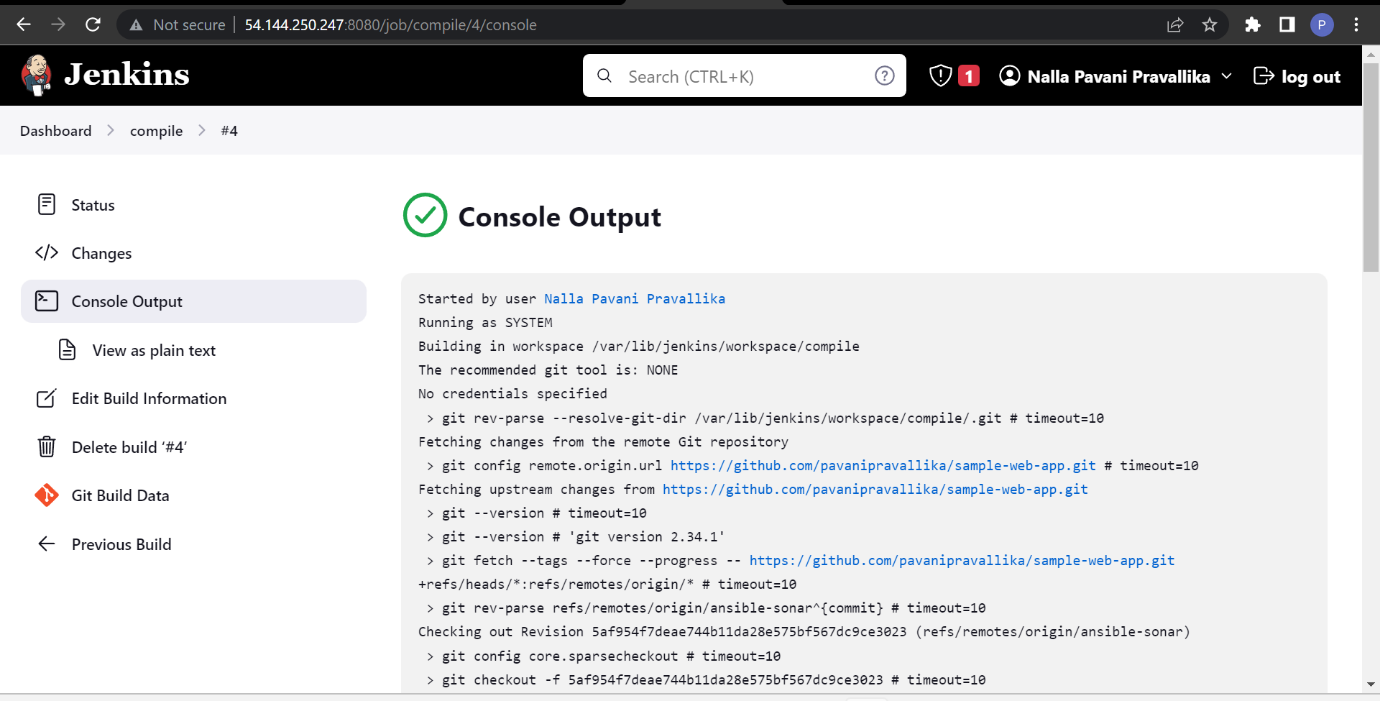
Go to build steps and select invoke top level maven targets and give goal as compile.



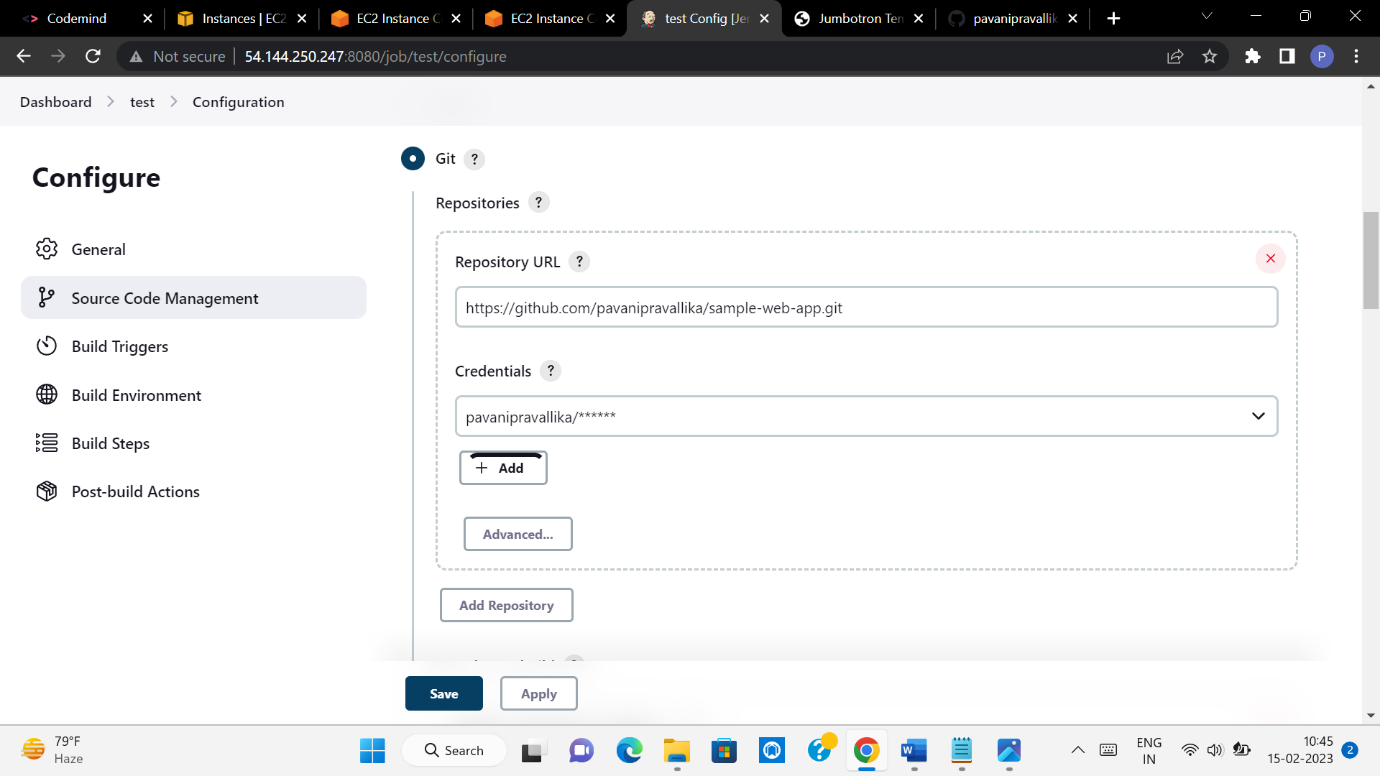


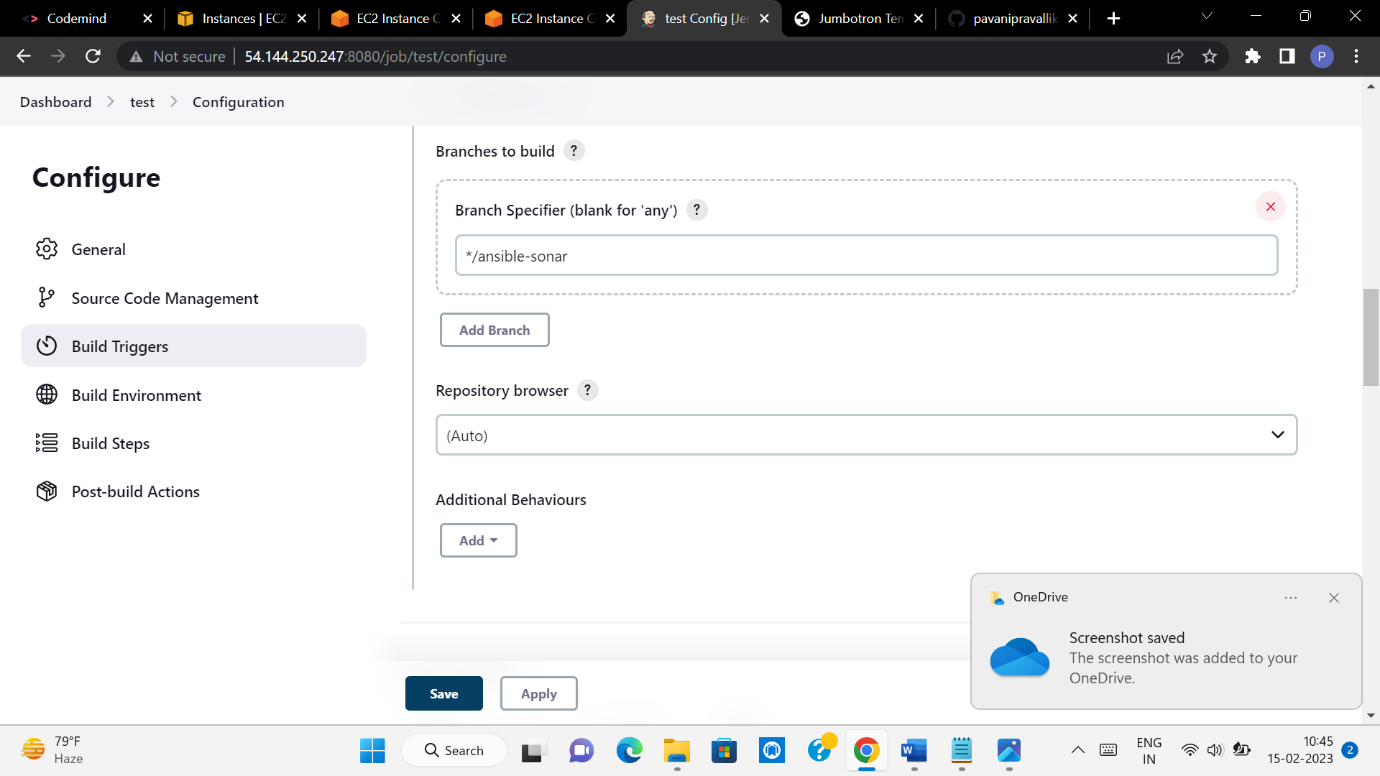
click apply and save.

Now do build now if we get console output with no errors the we have performed the process well.



Now create another item with name test as above steps.

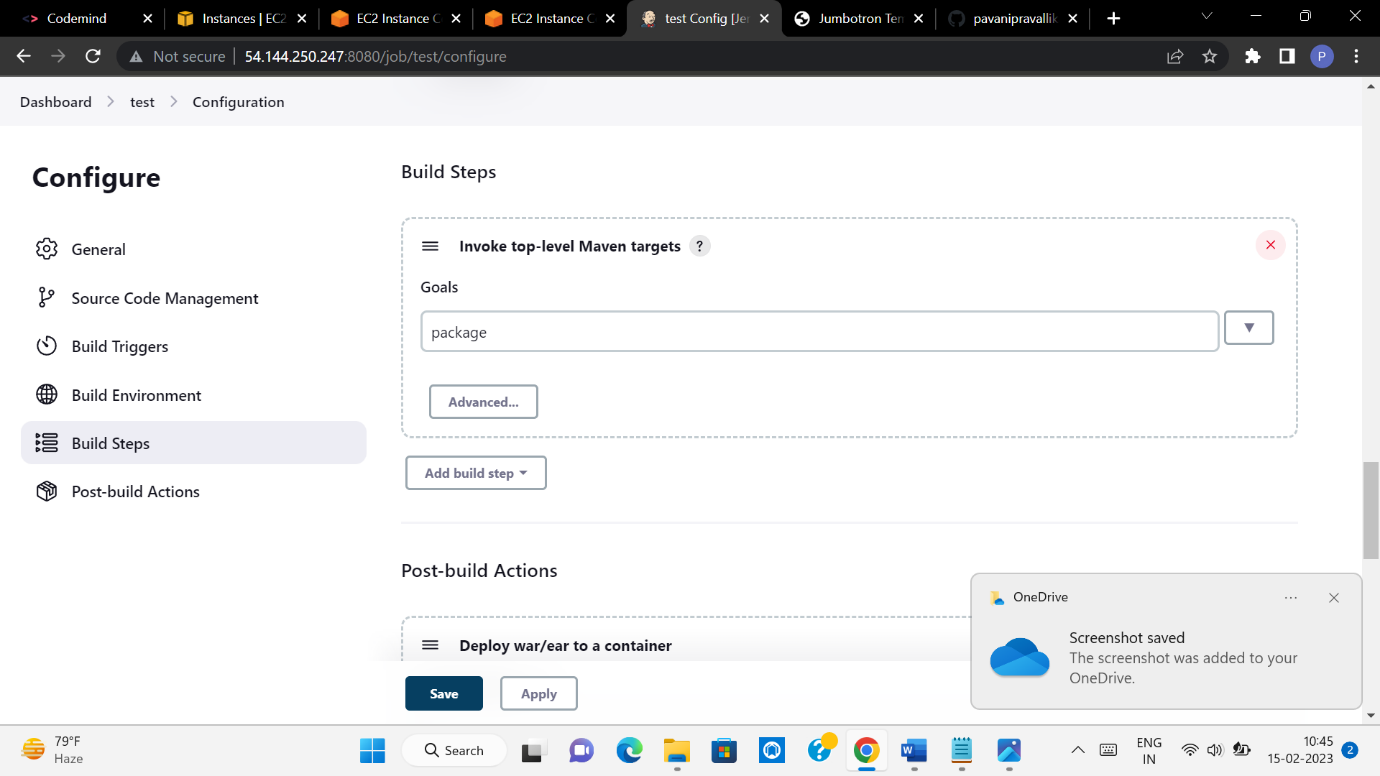


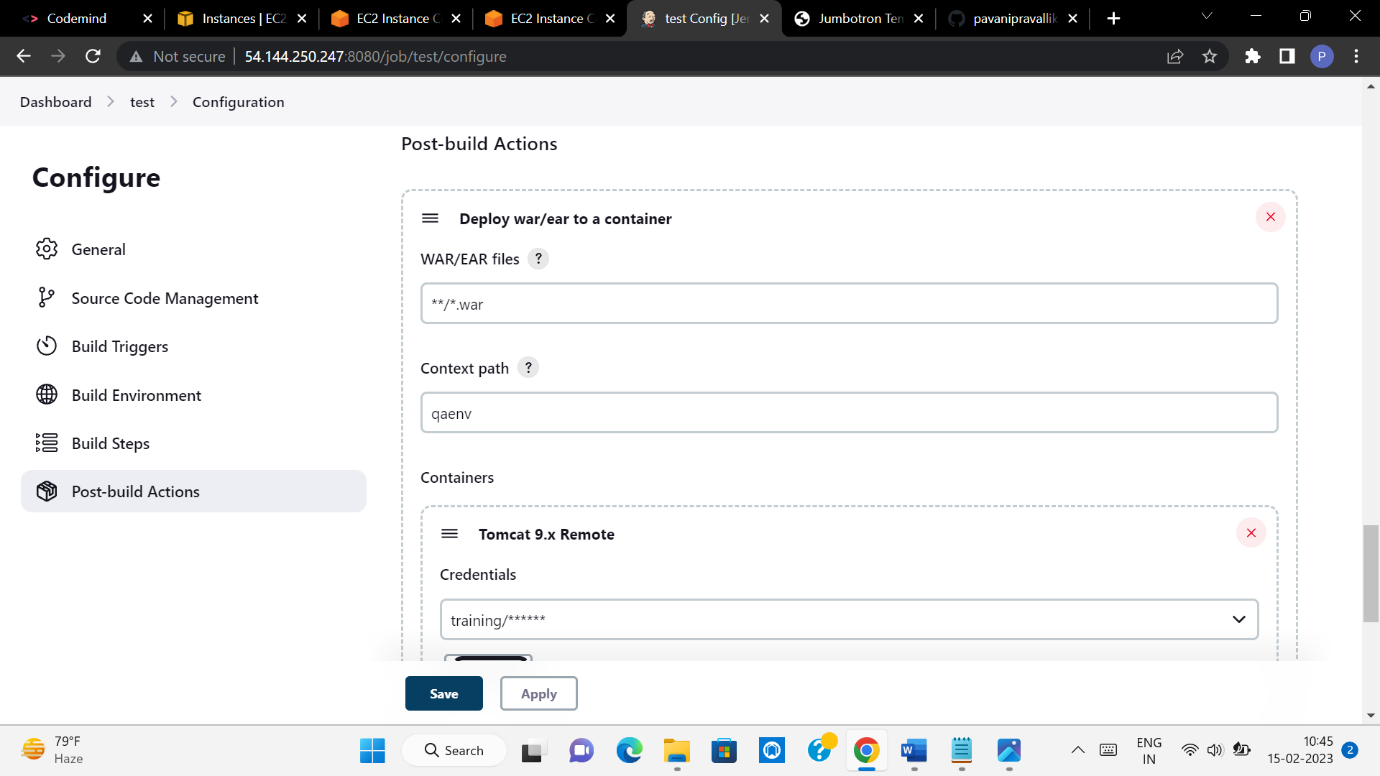


We need to install plugin called deploy to container .

Jenkins dashboard->manage Jenkins->manage plugins-> install plugin

And in post build actions select the container and give following credentials Also add tomcat9 container and add credentials which we have already given in tomcat-users.xml file.

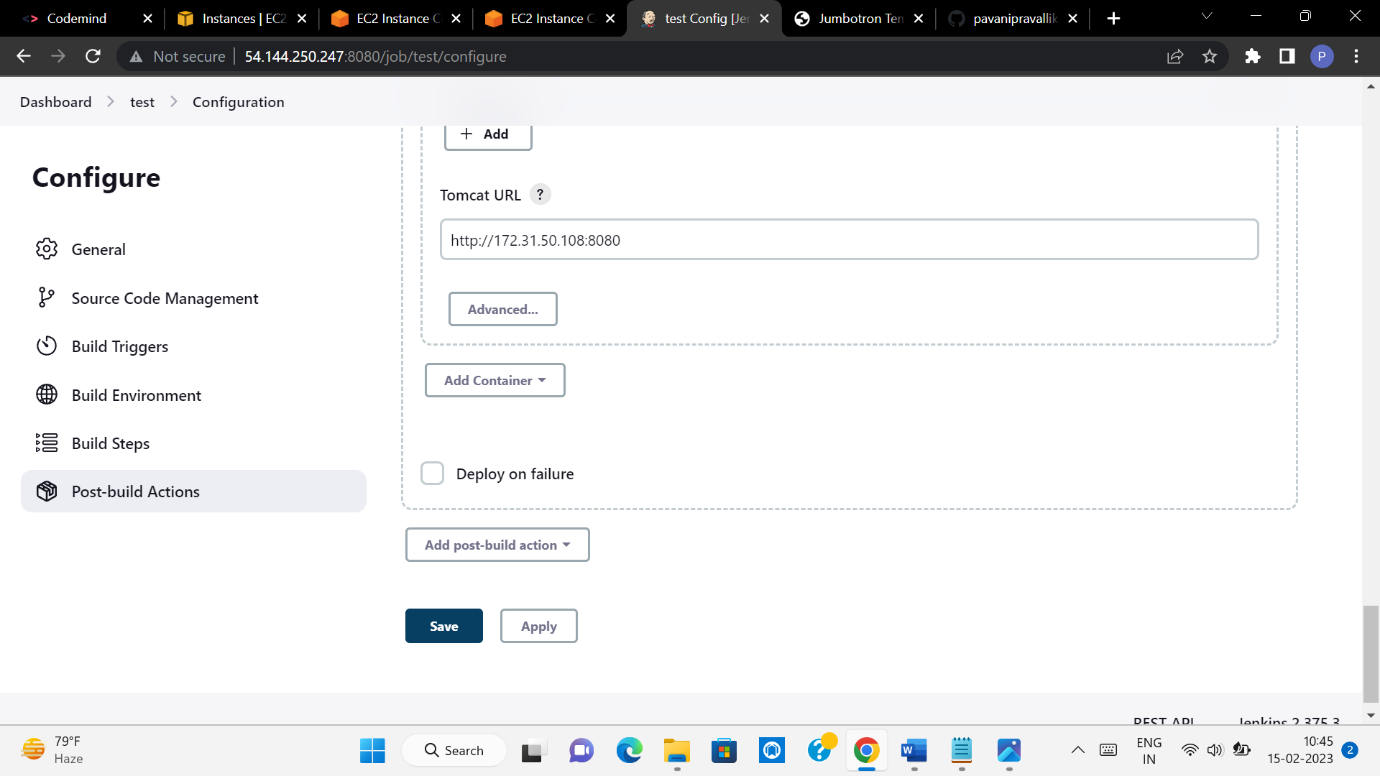




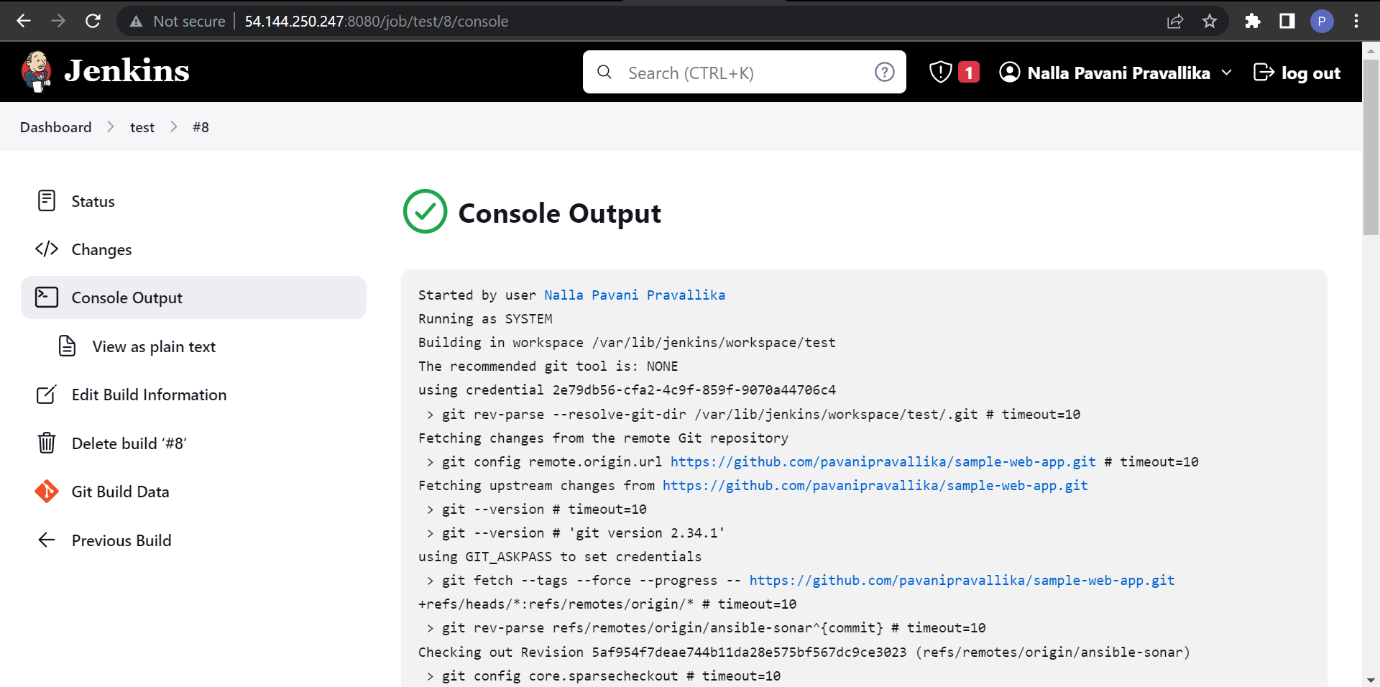
In tomcat url we need to give the private ip of tomcat installed instance.

<http://privateip:8080>

click apply and save.



Now perform build now operation, console output is shown below.



Now to see whether we deployed or not we need to give public ip of tomcat’s instance.

Public ip:8080/contextpath/

By giving like above we get,

