First Start All the AWS Machines.

Connect Dev Server

Start the Jenkins

java -jar jenkins.war

**Stage 1: Continuous Download**

START CI-CD

1. Create New item as free style project

New item 🡪 development 🡪 freestyle project

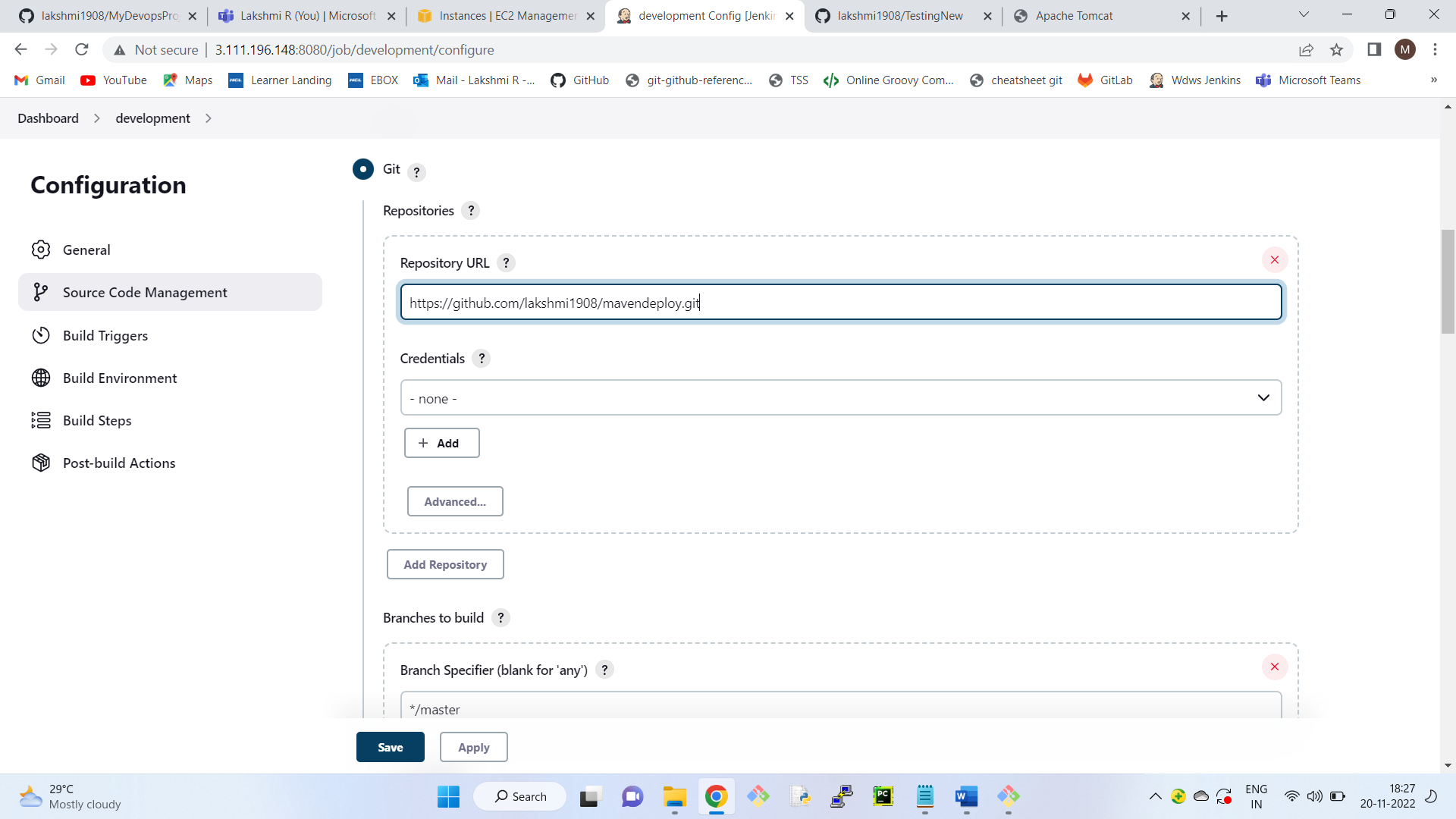
2) Click on source code managment

3) Select GIT

4) Enter the URL of github reposiditory

<https://github.com/lakshmi1908/mavendeploy.git>

5) Click on apply and save



6) Run the Job

7) Check the console output.

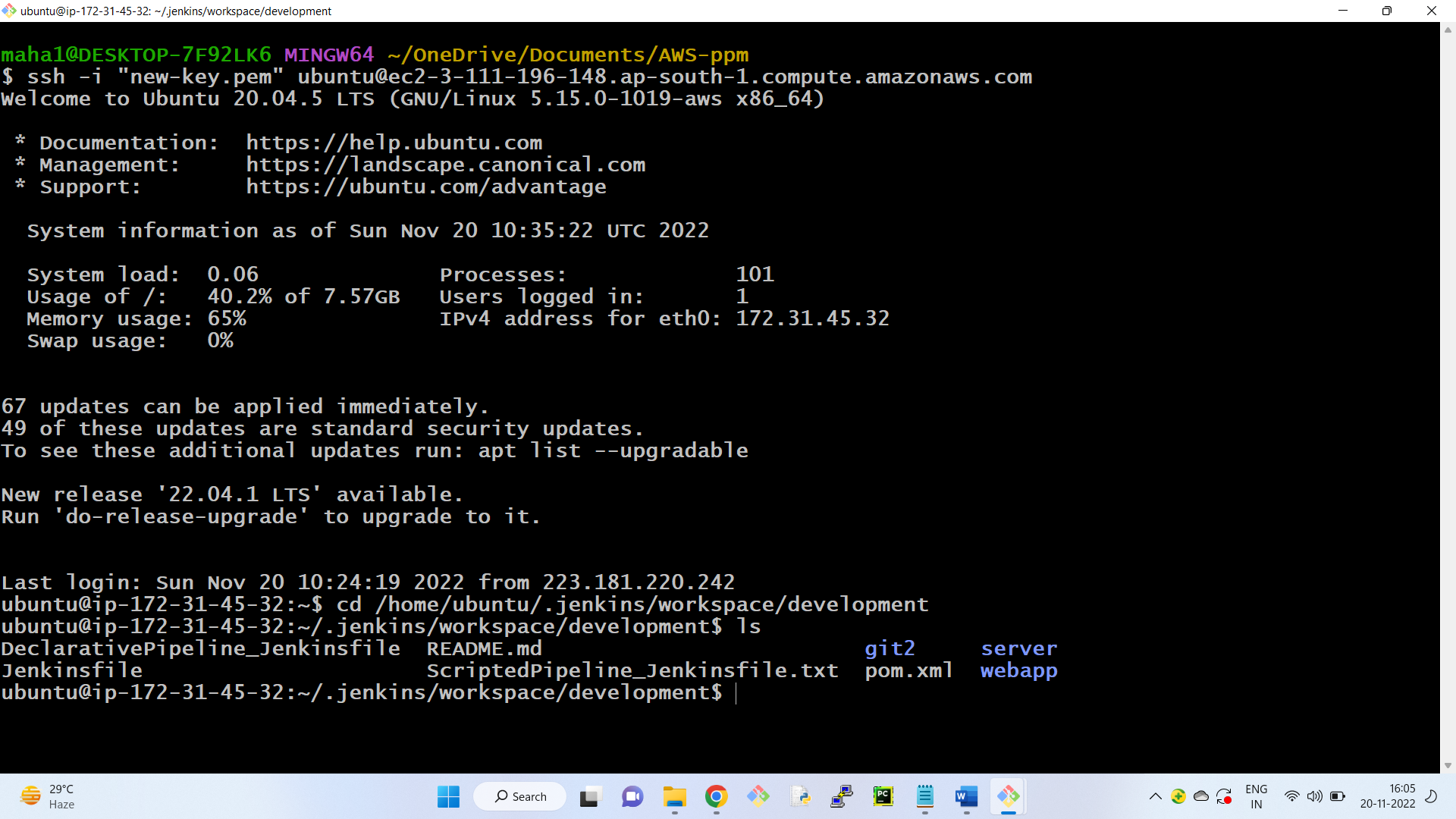
8) Connect to the dev server

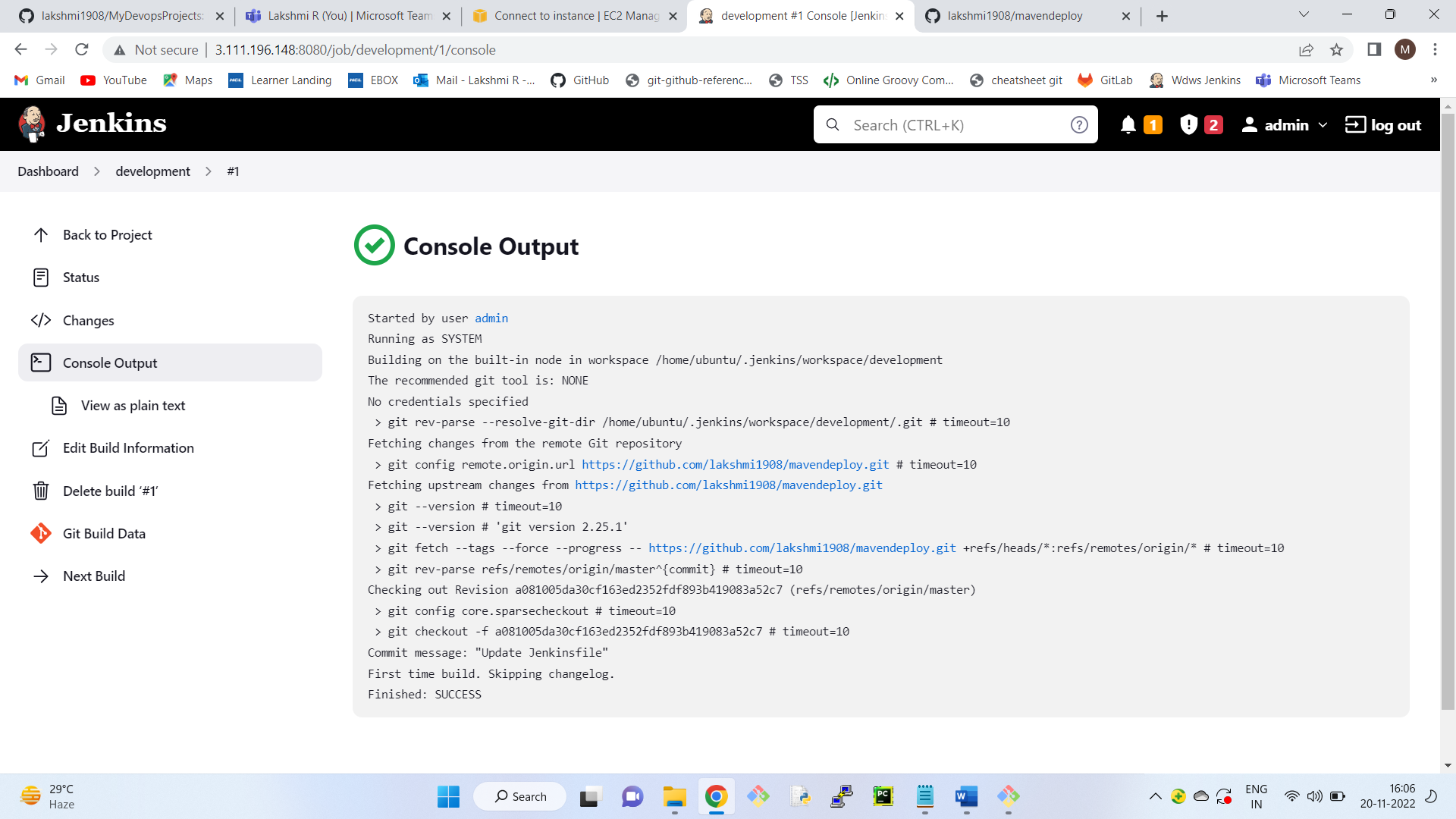
9) Go to the location where code is downloaded

sudo su -

cd path of the folder

ls





**Stage 2: Continuous Build**

Convert the java files in to artifact ( .war file)

10) Click on configure of the same job

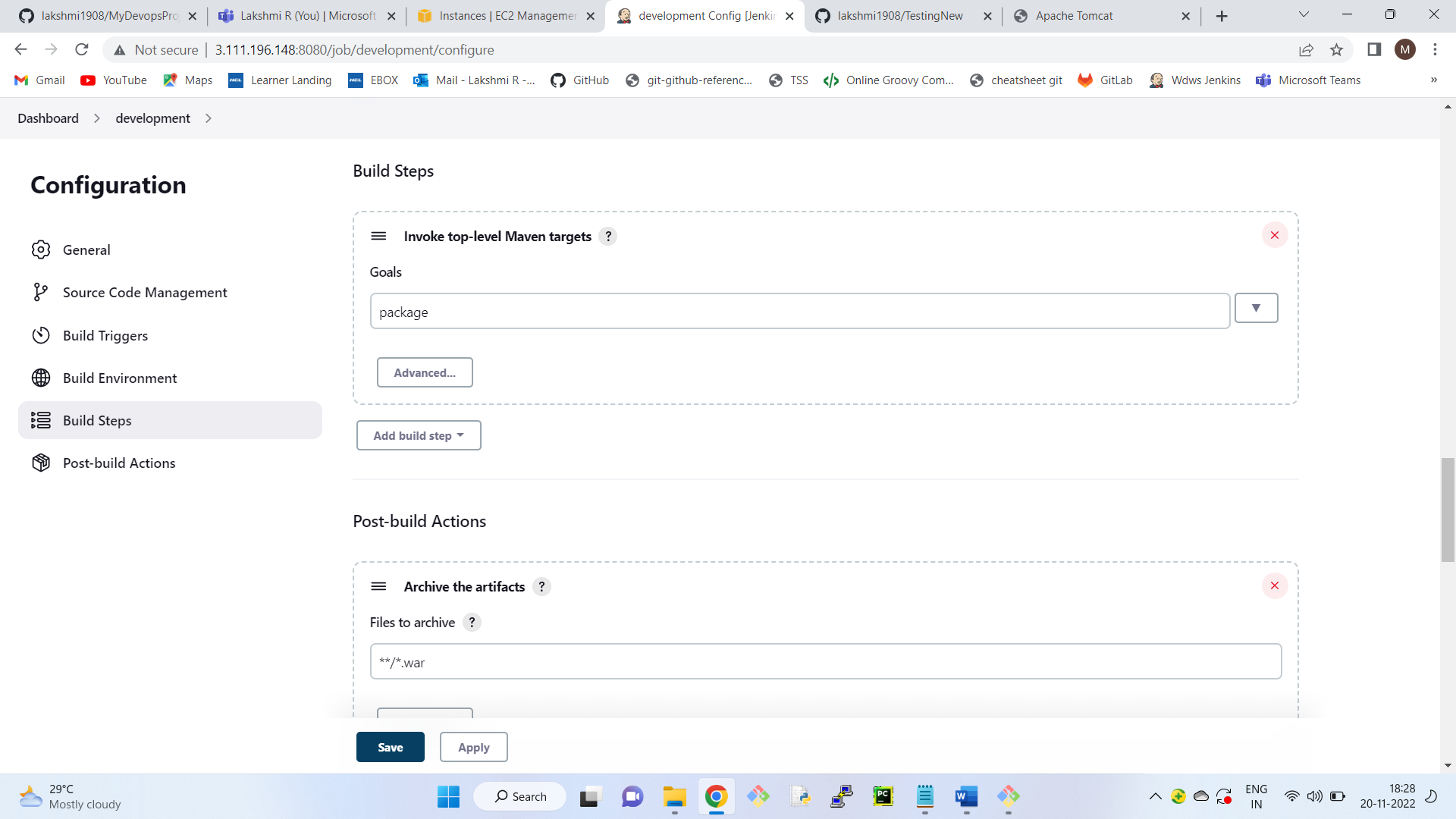
11) Go to Build Section

12) Click on add build step

13) Click on Invoke top level maven targets

14) Enter the goal as package

15) click on apply and save



16) Run the Job

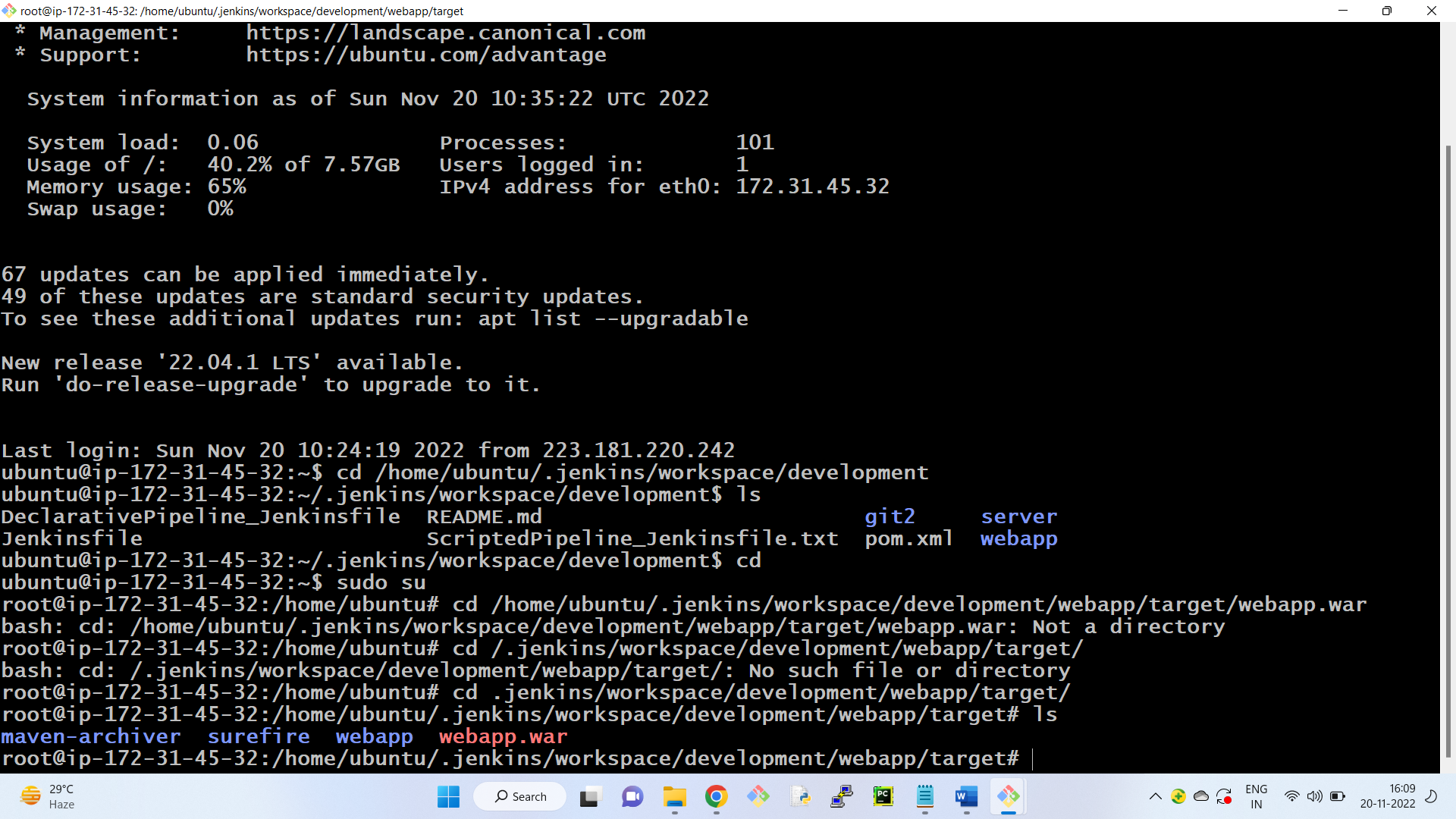
17) Click on number & click on console output

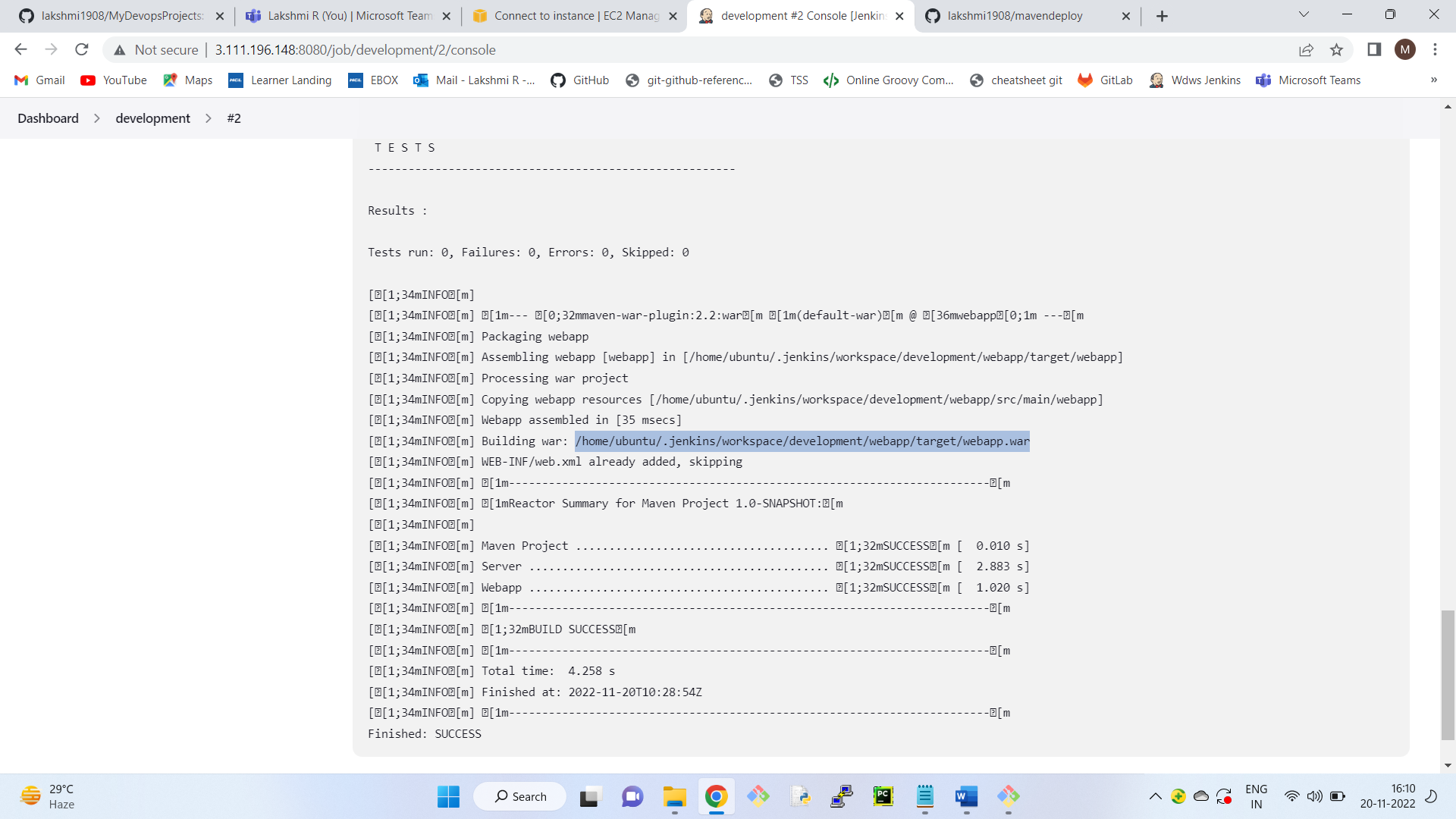
18) Copy the path of the war file and check the file in the linux machine

sudo su -

cd path

ls





**Stage 3: Continuous Deployment**

Now we need to deploy the war file into the QA Server.

19) For this we need to install "deploy to container" plugin.

Go to Dasboard

Click on manage Jenkins

Click on manage plugins

Click on avaiable section

Search for plugin (deploy to container)

Select that plugin and click on install without restart.

20) Click on post build actions of the development job

21) Click on add post build actions

22) Click on deploy war/ear to container

23) Enter the path of the war file (or)

we can give \*\*/\*.war in war/ear files.

24) Context path: qaenv

25) Containers: select tomcat 9

Credentials : Click on add

select jenkins

enter tomcat user name as training and password as abcdabcd

Click on add

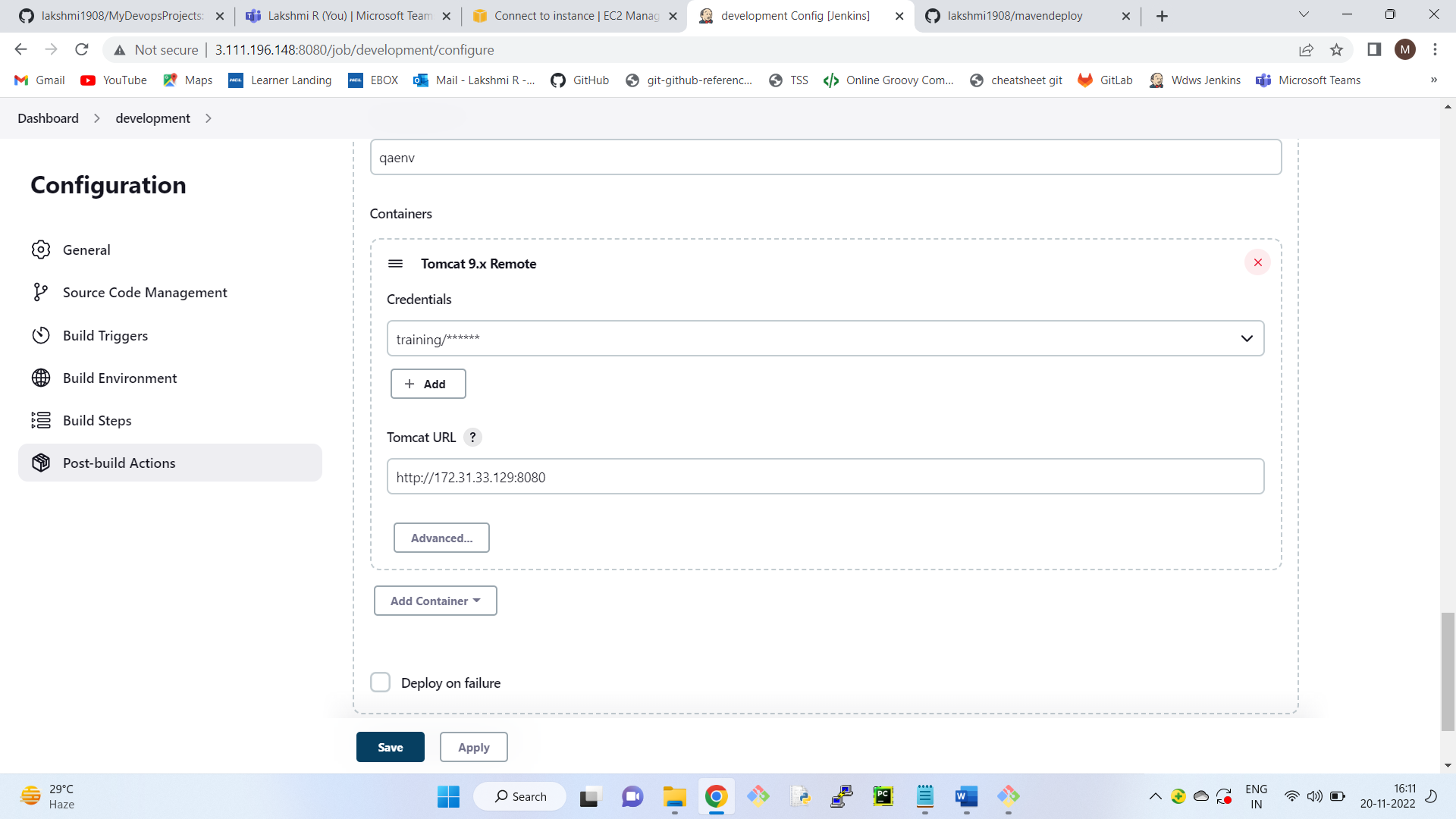
Select credentials.



give the private ip of the QA server.

http://private\_ip:8080

<http://172.31.32.183:8080>



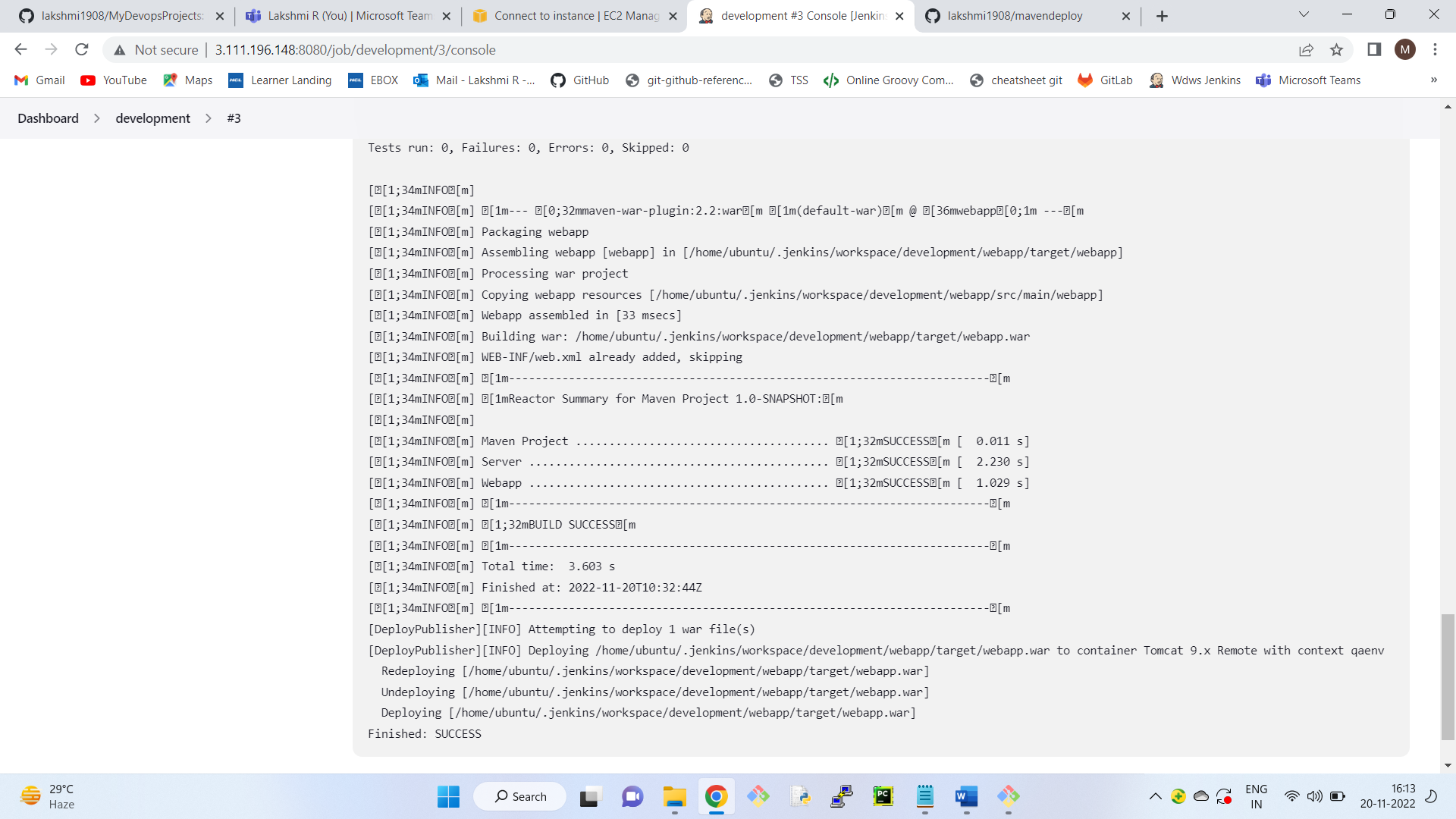
26) Click on apply and save

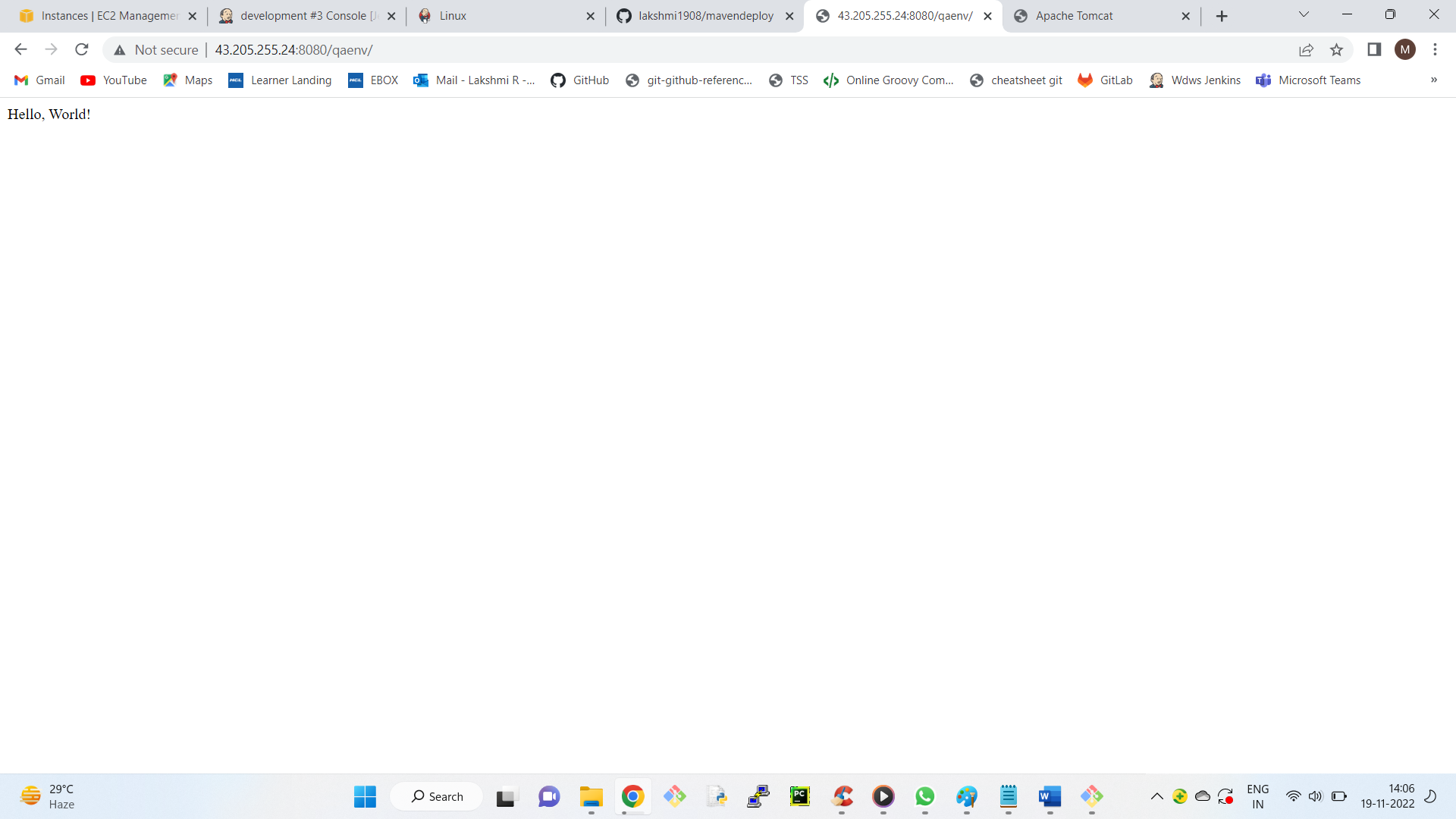
27) Run the job

28) To access the home page

public\_ip\_Qa\_server:8080/qaenv

http://43.205.255.24:8080/qaenv/





**Stage 4: Continous Testing**

<https://github.com/lakshmi1908/TestingNew.git>

Step 1: Connect to DevServer from git bash

Step 2: Start Jenkins (java -jar jenkins.war)

Step 3: Create new item (Name - testing)

Source code management tab, Git

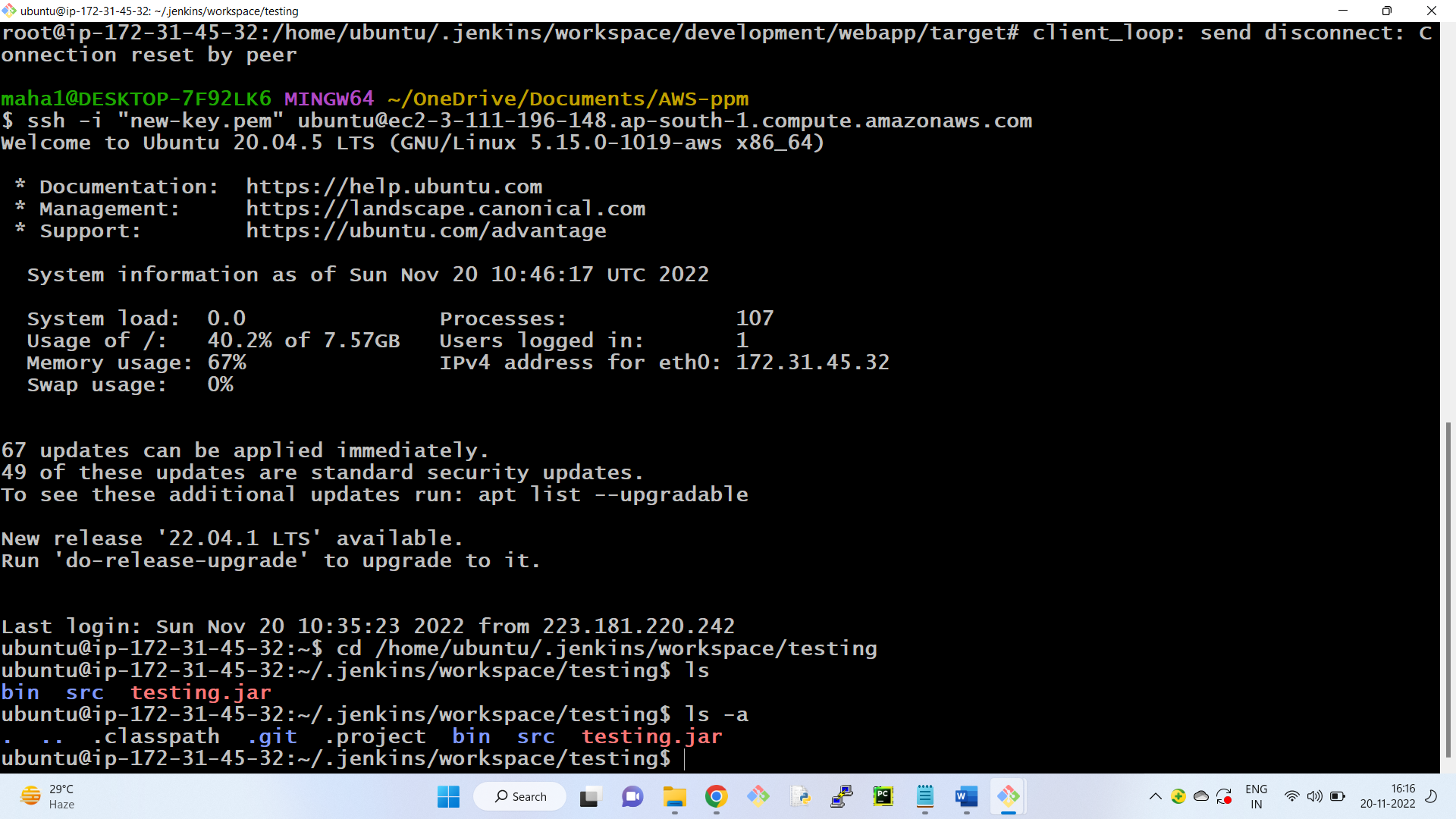
Repository URL -<https://github.com/lakshmi1908/TestingNew.git>

Apply -- Save

Step 4: Run the job.

Step 5: Check the path of the files which are downloaded.

/home/ubuntu/.jenkins/workspace/testing

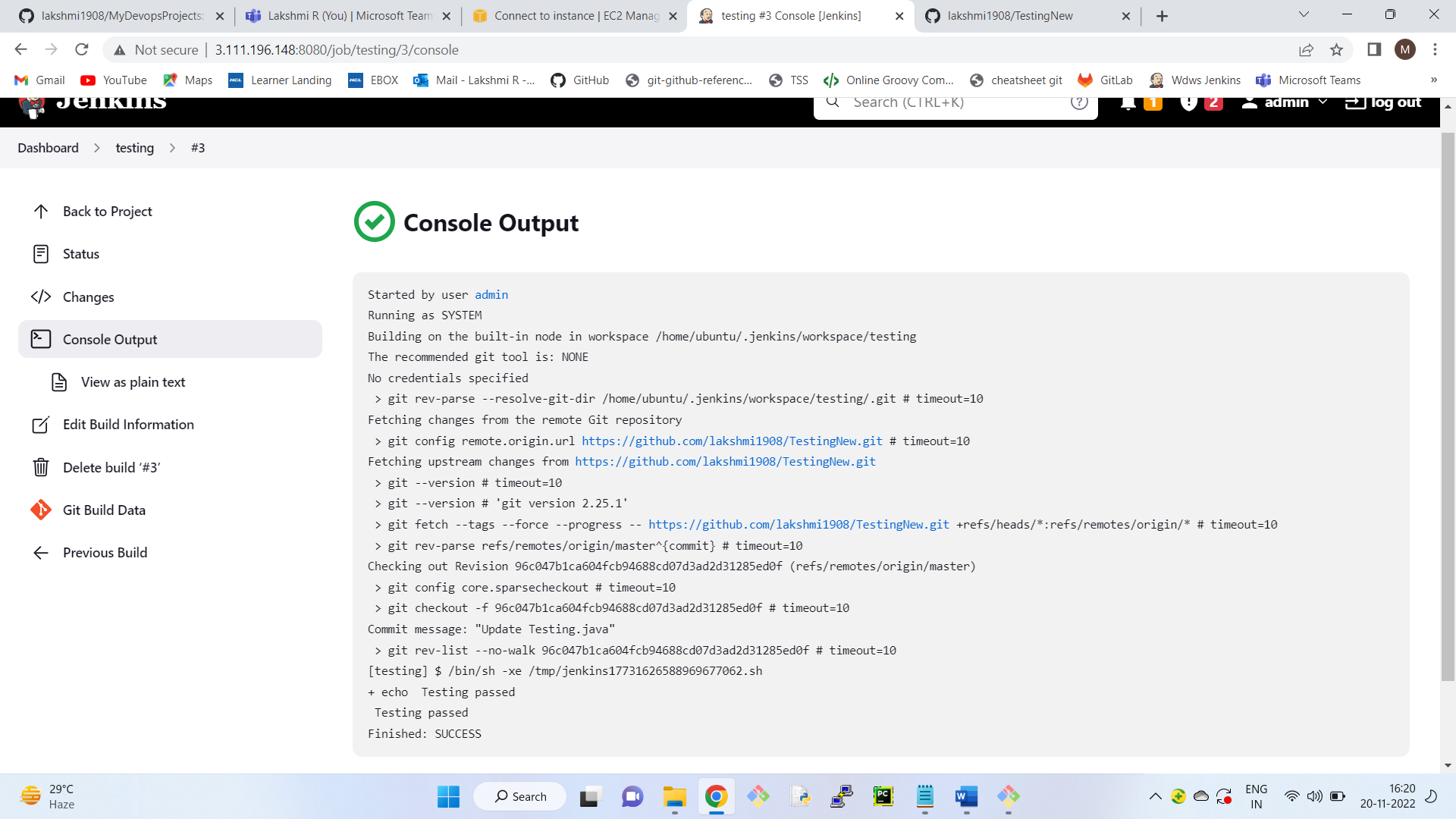


Step 6: Configure the same job (testing)

Build -- Add build Step -- Execute shell

(Command: java -jar testing.jar this command fails)

Command: echo " Testing passed"



Now both are independent job.

To call testing job after development job is completed

Go to first job (development) -- configure

Post build actions -- add post build action -- build other projects -

Projects to build - testing (name of the job)



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Copying artifacts from development job to testing job

The artifacts (war) created by the development job should be passed to the testing job so that the testing job can deploy that into tomcat in the prod environment.

**Install Plugins**

1) Go to Jenkins dashboard

2) Go to manage jenkins

3) Click on Manage plugins

4) Search for "Copy Artifact" plugin

5) Install the plugin

**Stage 5: Continuous Delivery**

1) Go to Development job

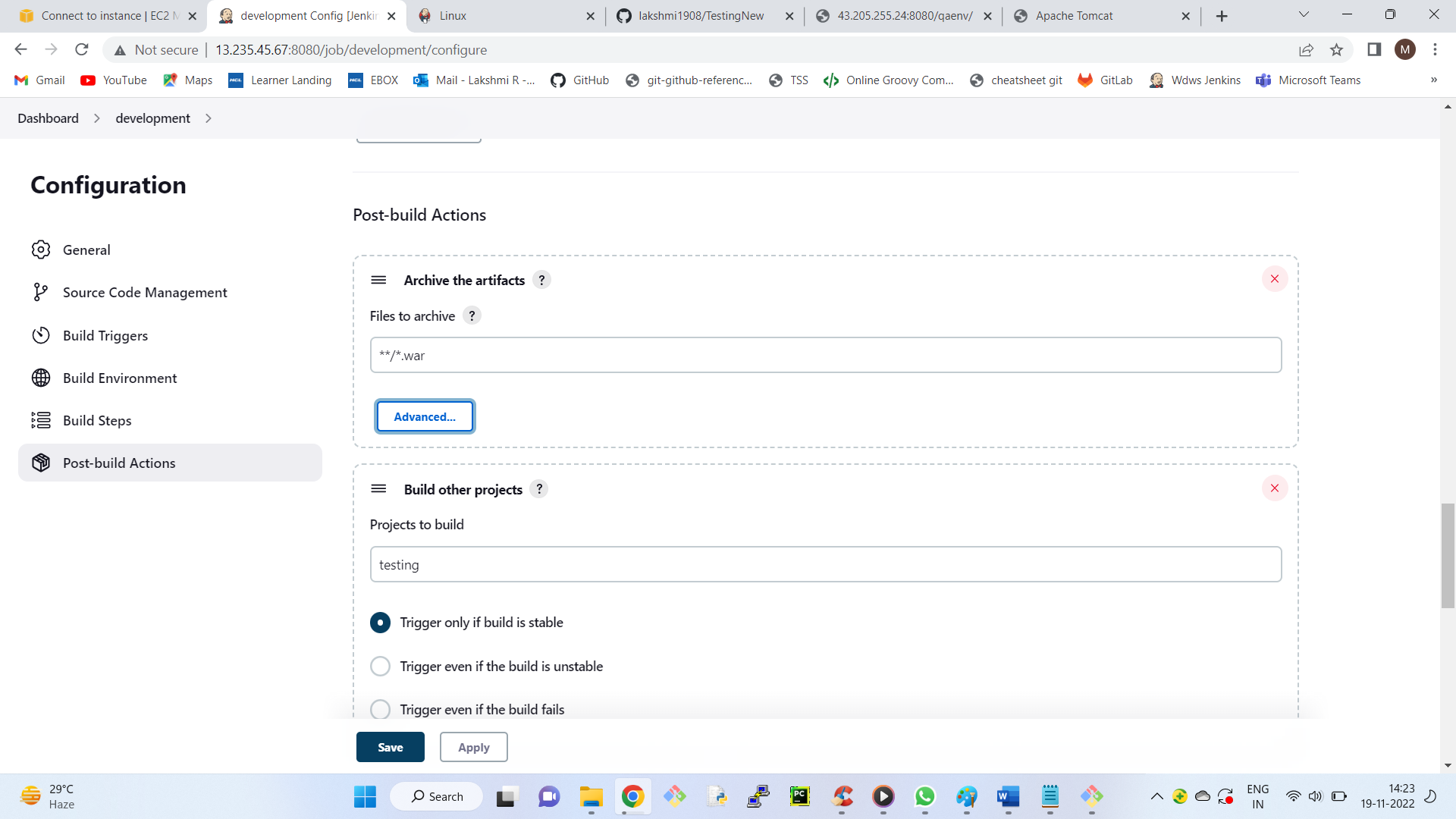
2) Go to Configure

3) Go to Post build actions tab

4) Click on add post build action

5) Click on Archive the artifacts

6) Enter \*\*/\*.war



7) Click on apply and save

8) Go to testing Job

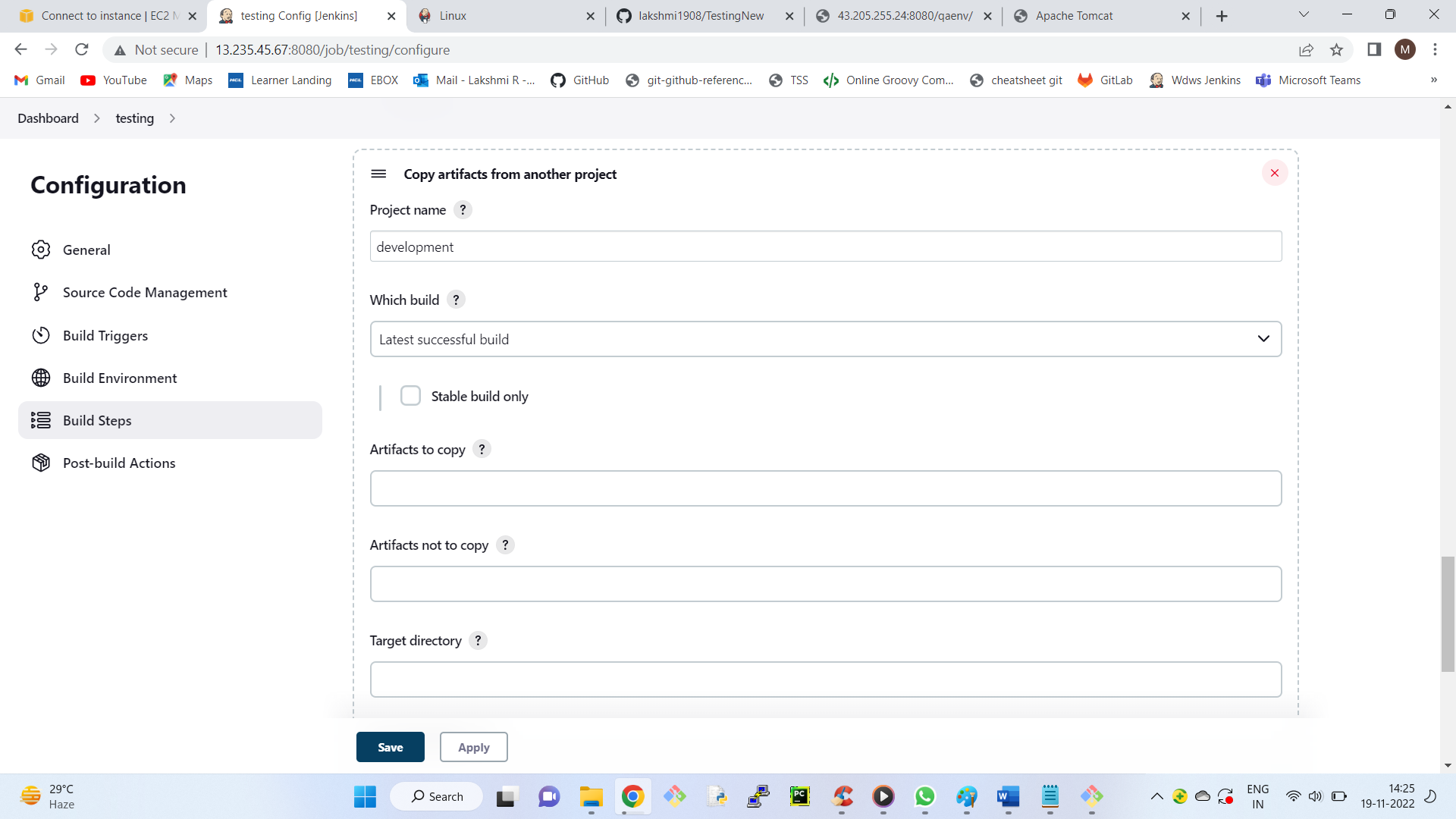
9) Click on configure

10) Go to Build section

11) Click on add build steps

12) Click on copy artifacts from another project

13) Enter Development as project name



14) For Deployment Go to Post build actions section

15) Click on add post build action

16) Click on deploy war/ear to a container

17) Enter \*\*/\*.war in war/ear files

18) Context path: prodenv

19) Click on add container

20) Select tomcat 9

21) Select your Credentials

22) Enter private ip:8080 of the prod server

http:// 172.31.33.125 :8080

23) Click on Apply and save

