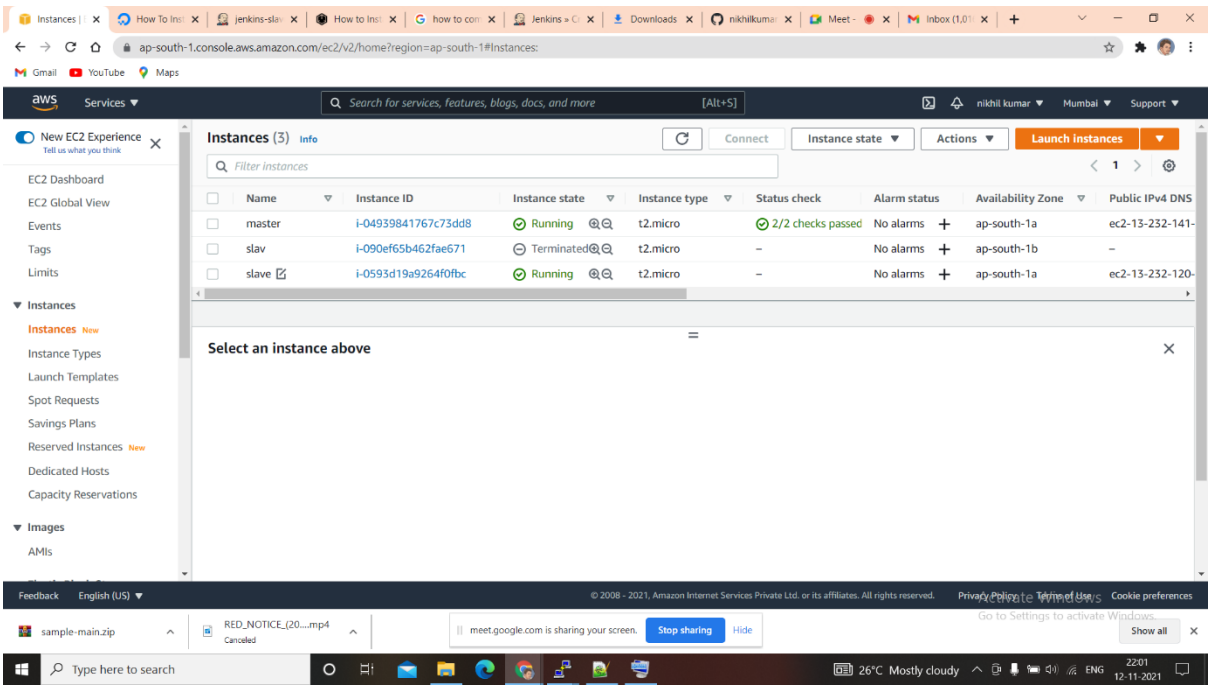
# Jenkins Assignment – CS457 (DevOps)

## Master-Slave

- **Team 9**

1. Create two AWS ec-2 Ubuntu instances as master and slave.
   Install java on both the machines and Jenkins only on the master machine



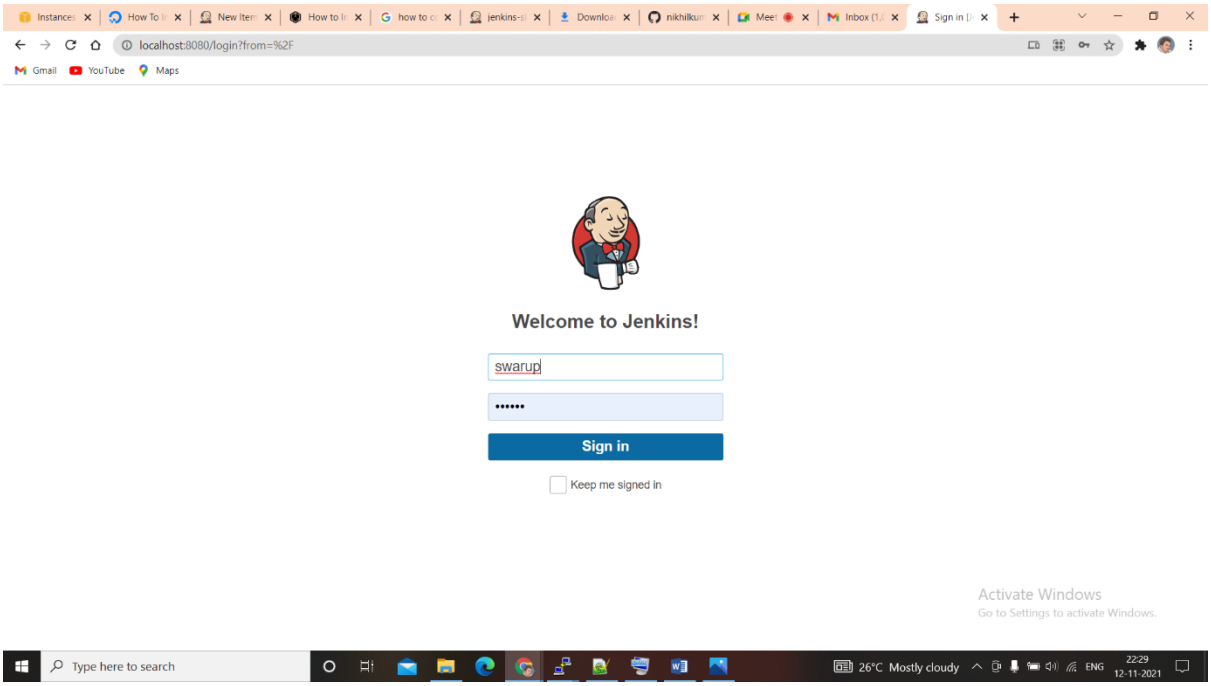

**To install java –**

sudo apt-get install
sudo apt install openjdk-8-jdk
java –version

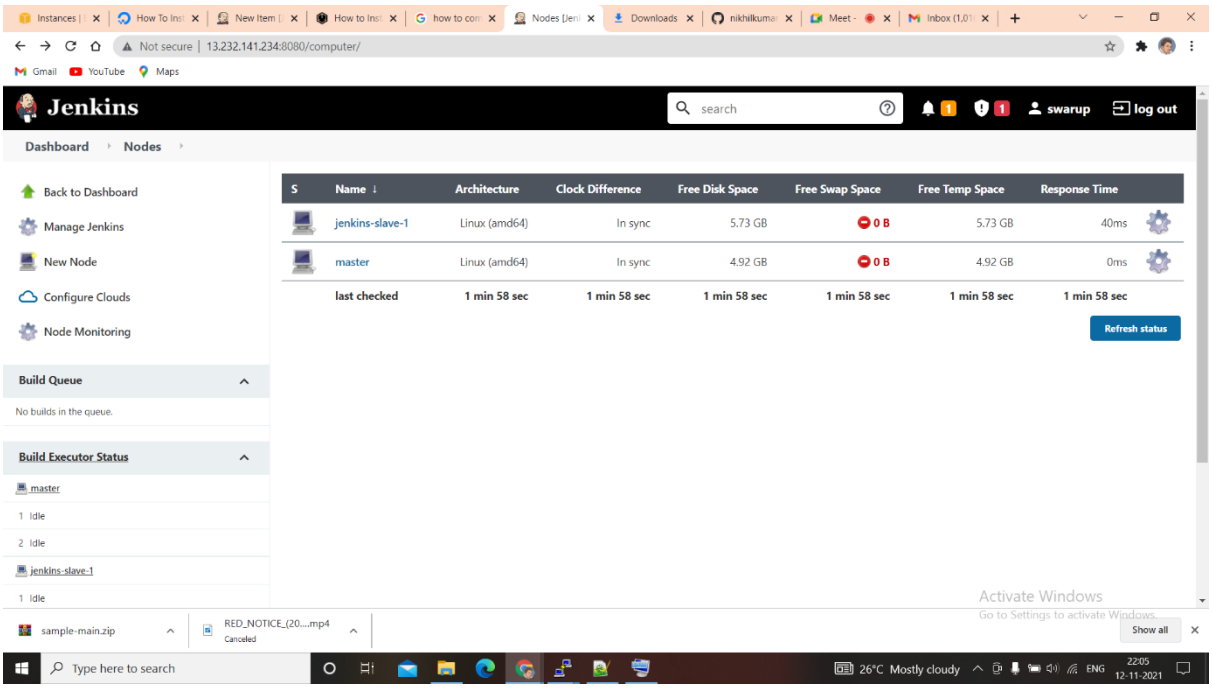
**to install Jenkins –**

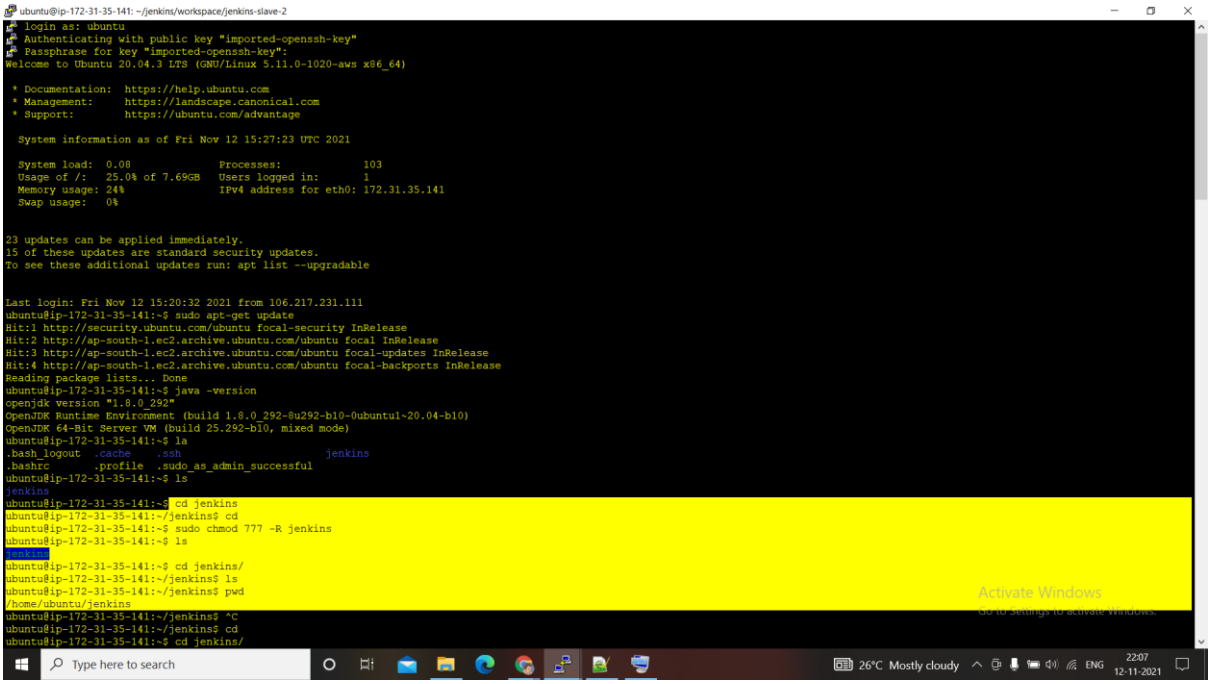
wget -q -O - https://pkg.jenkins.io/debian/jenkins.io.key | sudo apt-key add –
sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'
sudo apt install Jenkins
systemctl status Jenkins
sudo ufw allow 8080
sudo ufw status

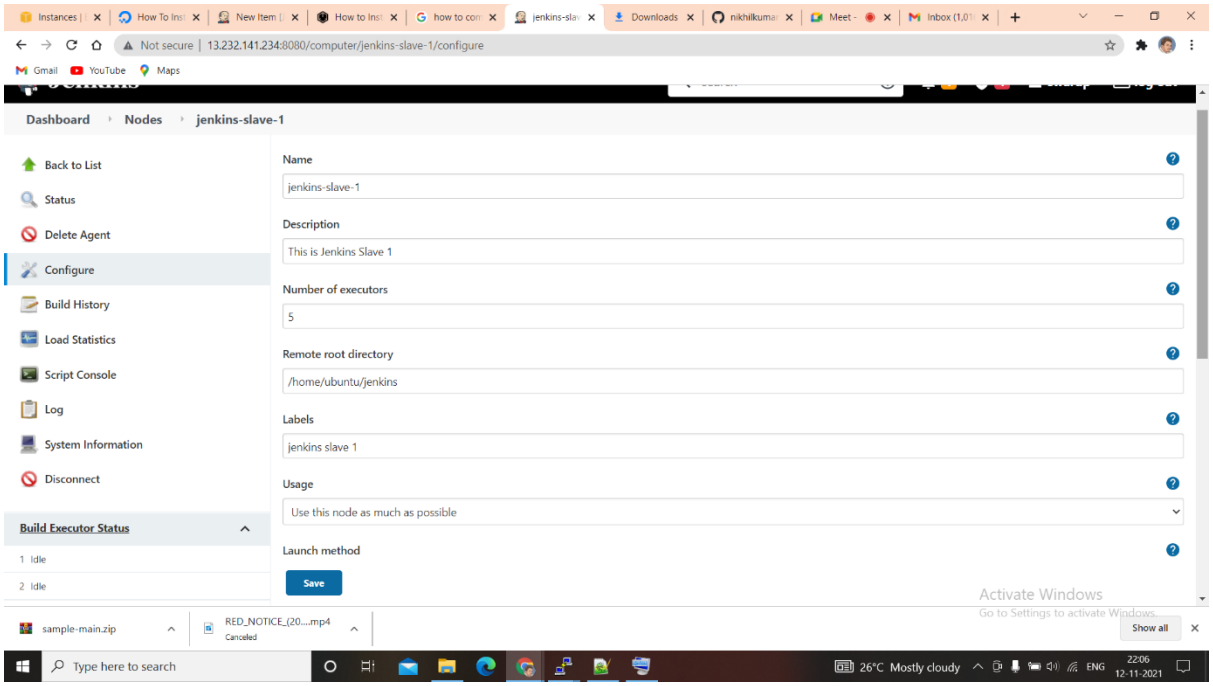
2 . Open Jenkins with ip address of master with localhost 8080 in your web browser and login to Jenkins.

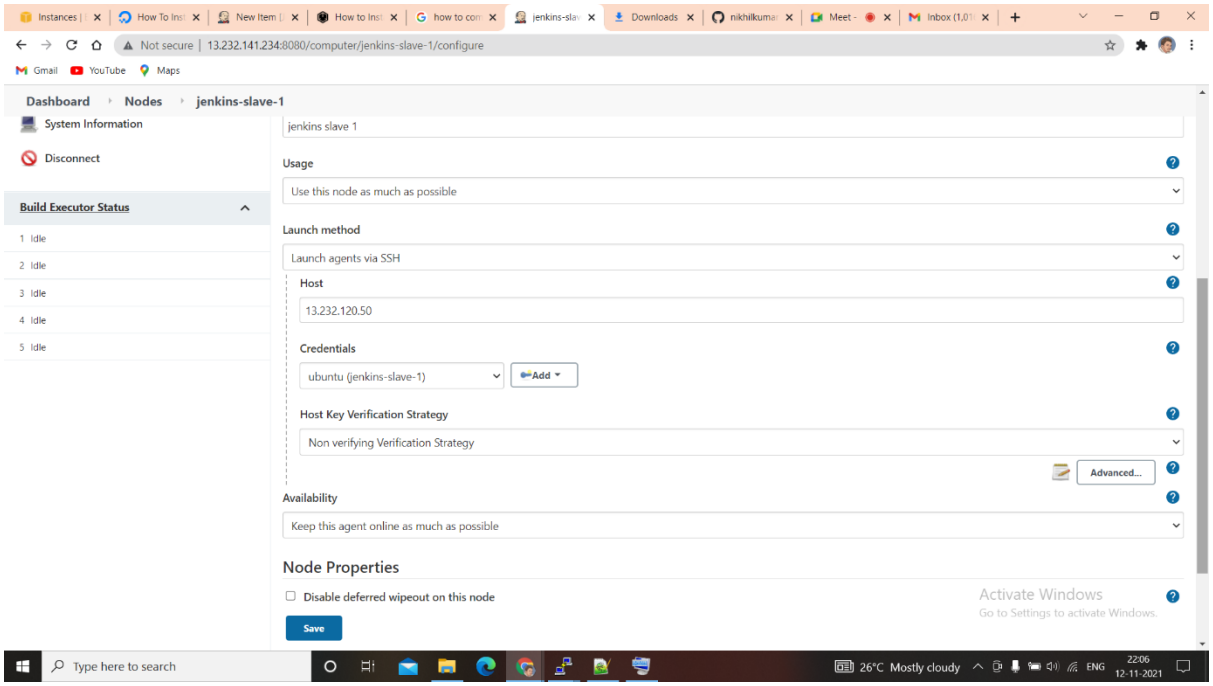



3. Create new node to connect to slave instance in Jenkins and configure it

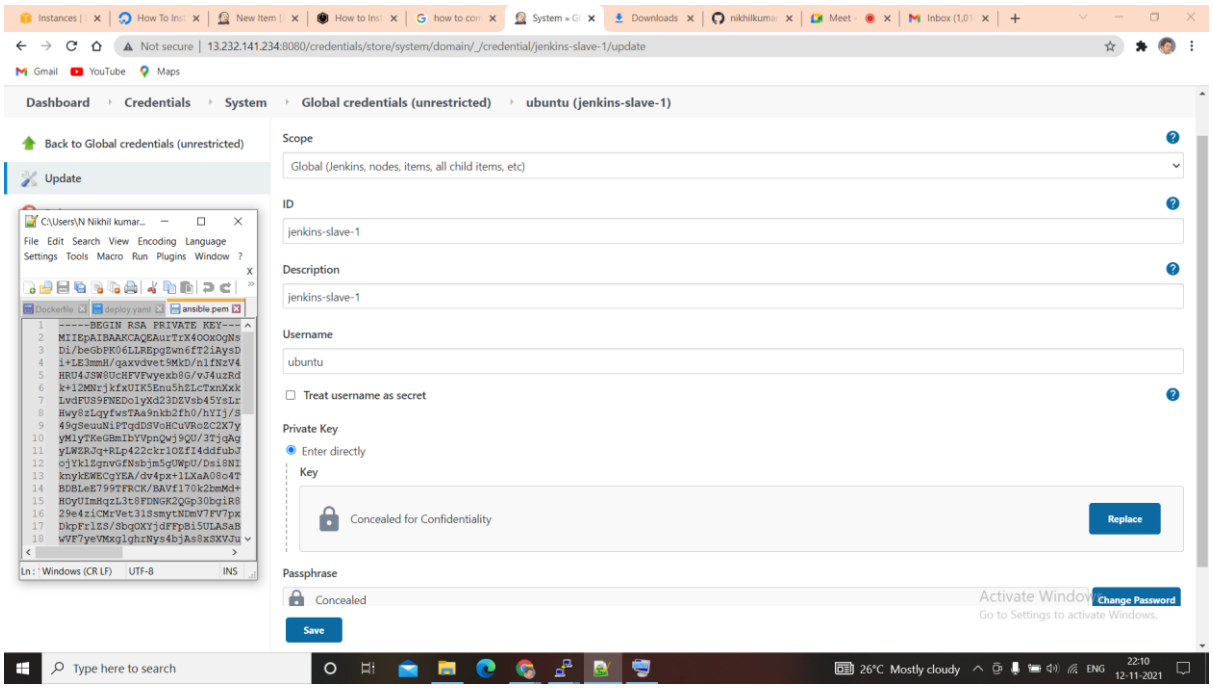



ubuntu@ip-172-31-35-141: ~/jenkins/workspace/jenkins-slave-2
login as: ubuntu
Authenticating with public key "imported-openssh-key"
Passphrase for key "imported-openssh-key":
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.11.0-1020-aws x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
System information as of Fri Nov 12 15:27:23 UTC 2021
System load: 0.08 Processes: 103
Usage of /: 25.0% of 7.69GB Users logged in: 1
Memory usage: 24% IPv4 address for eth0: 172.31.35.141
Swap usage: 0%
23 updates can be applied immediately.
15 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
Last login: Fri Nov 12 15:20:32 2021 from 106.217.231.111
ubuntu@ip-172-31-35-141:~$ sudo apt-get update
Hit:1 http://security.ubuntu.com/ubuntu focal-security InRelease
Hit:2 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Hit:3 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:4 http://ap-south-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
Reading package lists... Done
ubuntu@ip-172-31-35-141:~$ java -version
openjdk version "1.8.0_292"
OpenJDK Runtime Environment (build 1.8.0_292-8u292-b10-0ubuntu1~20.04-b10)
OpenJDK 64-Bit Server VM (build 25.292-b10, mixed mode)
ubuntu@ip-172-31-35-141:~$ la
.bash_logout .cache .ssh jenkins
.bashrc .profile .sudo_as_admin_successful
ubuntu@ip-172-31-35-141:~$ ls
jenkins
ubuntu@ip-172-31-35-141:~$ cd jenkins
ubuntu@ip-172-31-35-141:~/jenkins$ cd
ubuntu@ip-172-31-35-141:~$ sudo chmod 777 -R jenkins
ubuntu@ip-172-31-35-141:~$ ls
jenkins
ubuntu@ip-172-31-35-141:~$ cd jenkins/
ubuntu@ip-172-31-35-141:~/jenkins$ ls
ubuntu@ip-172-31-35-141:~/jenkins$ pwd
/home/ubuntu/jenkins
ubuntu@ip-172-31-35-141:~/jenkins$ ^C
ubuntu@ip-172-31-35-141:~/jenkins$ cd
ubuntu@ip-172-31-35-141:~$ cd jenkins/
Activate Windows
Type here to search
26°C Mostly cloudy
ENG
22:07
12-11-2021

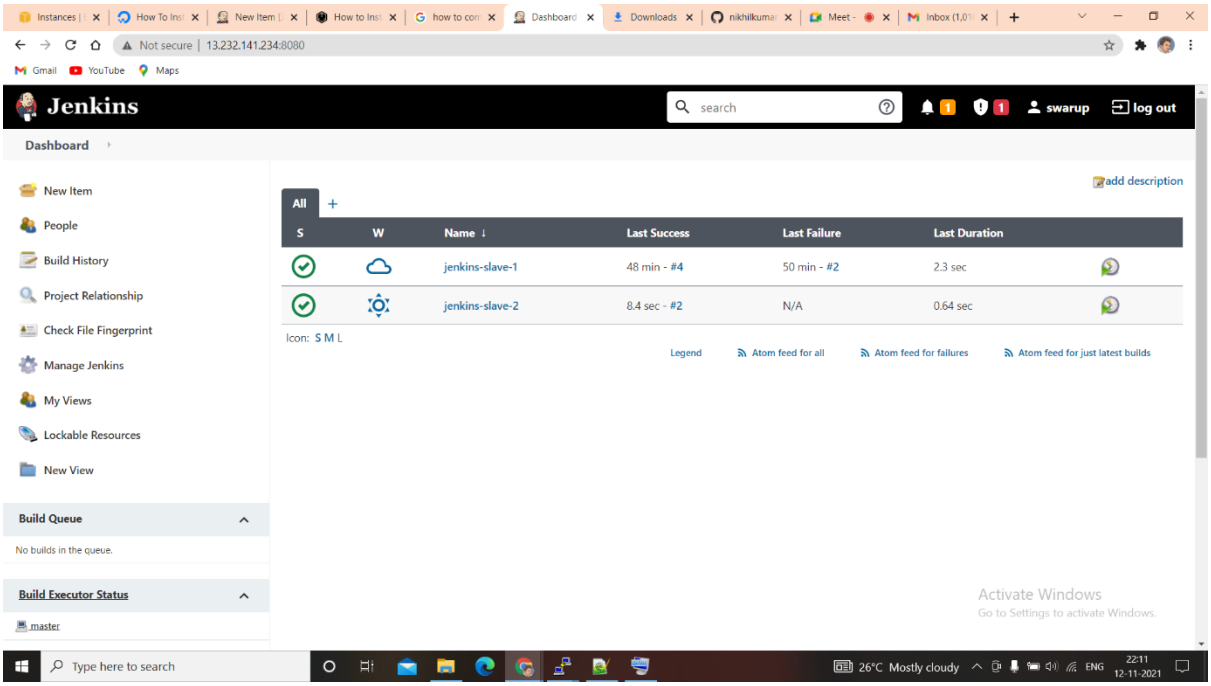

Not secure | 13.232.141.234:8080/computer/jenkins-slave-1/configure
Gmail
YouTube
Maps
Dashboard
Nodes
jenkins-slave-1
Back to List
Status
Delete Agent
Configure
Build History
Load Statistics
Script Console
Log
System Information
Disconnect
Build Executor Status
1 Idle
2 Idle
Name
jenkins-slave-1
Description
This is Jenkins Slave 1
Number of executors
5
Remote root directory
/home/ubuntu/jenkins
Labels
jenkins slave 1
Usage
Use this node as much as possible
Launch method
Save
Activate Windows
Go to Settings to activate Windows.
sample-main.zip
RED_NOTICE_(20....mp4
Canceled
Show all
Type here to search
26°C Mostly cloudy
ENG
22:06
12-11-2021

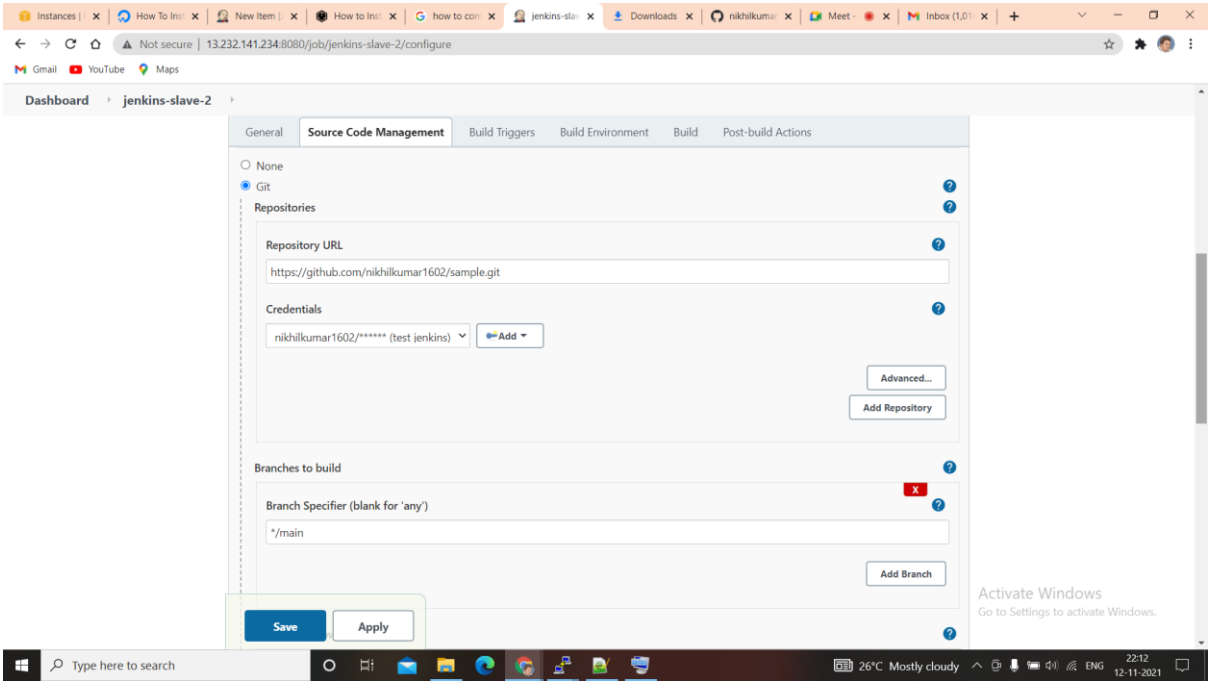


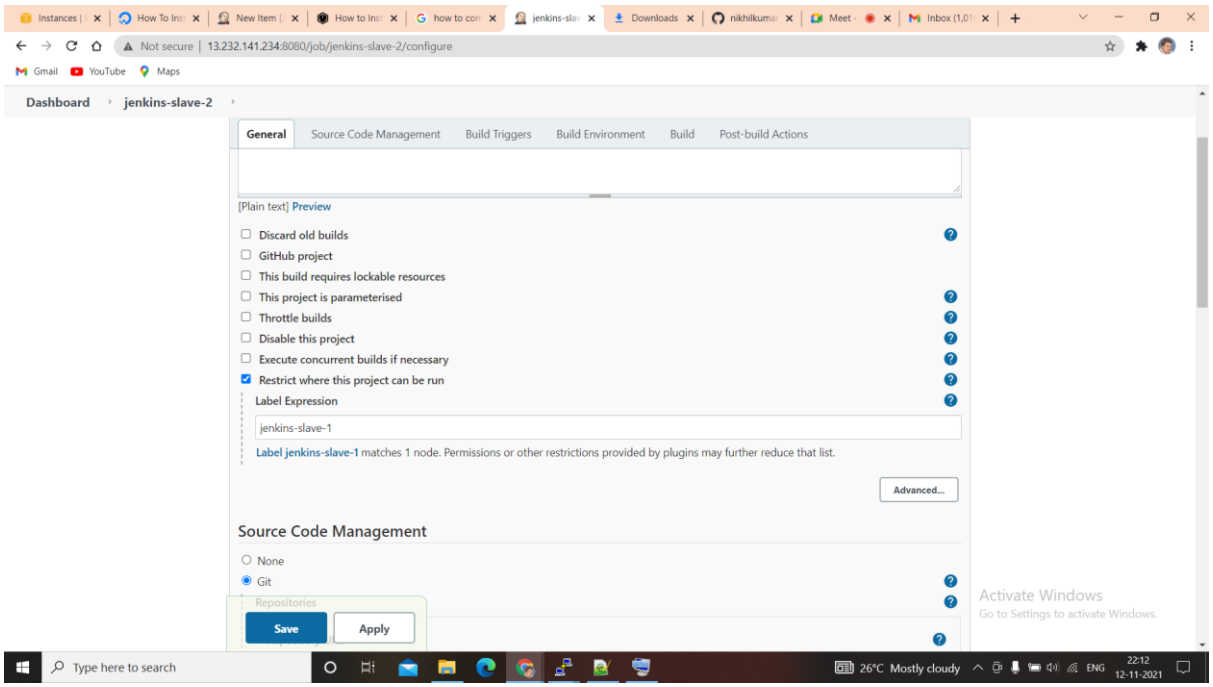

4 .Manage credentials to connect to github..



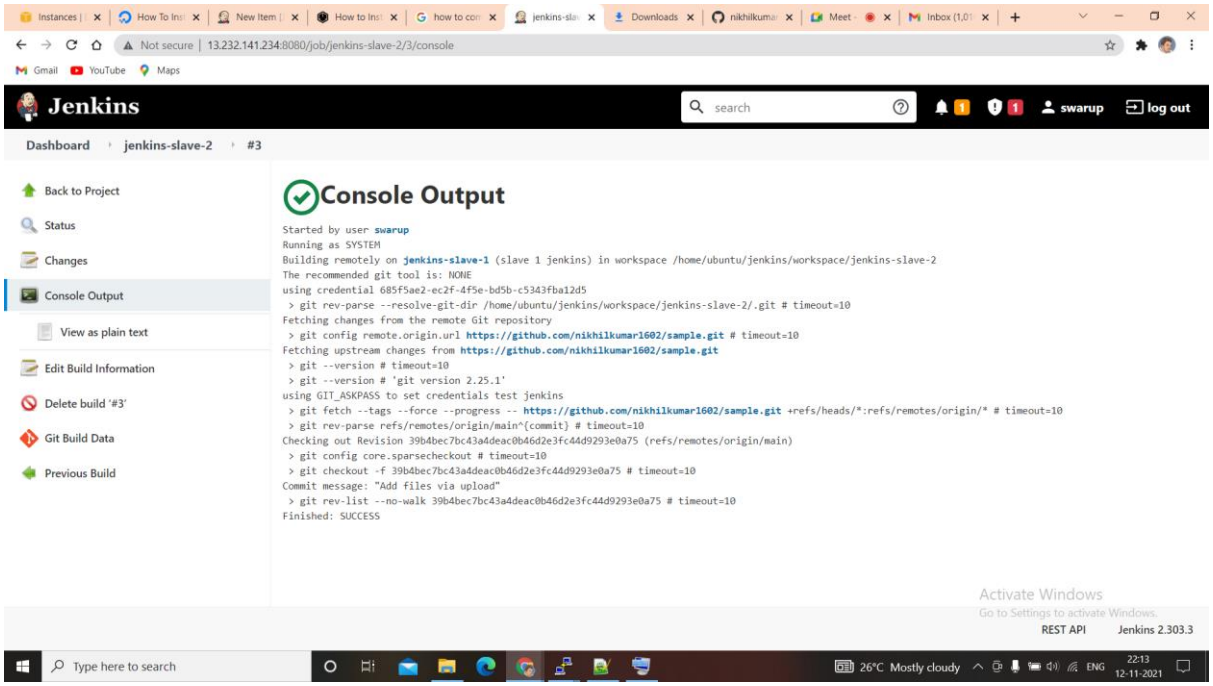
5 . Create new job Jenkins-slave-2 configure it and build it



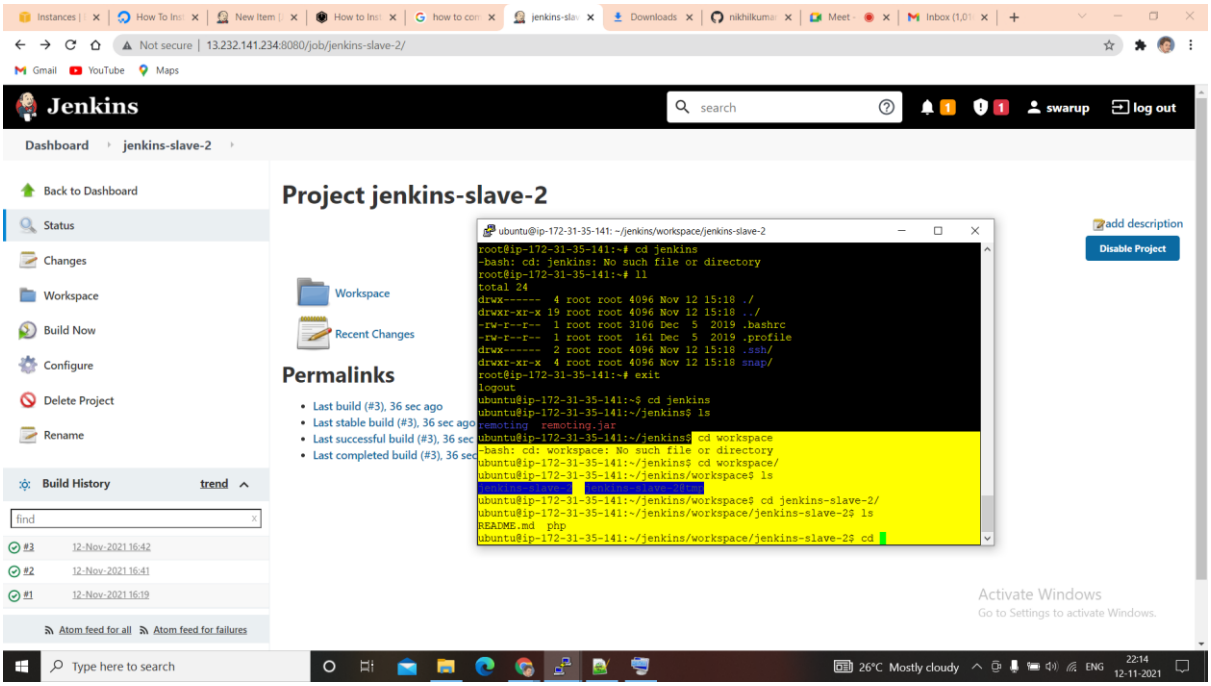






6. Console output after building the job



7. we can check the jobs which or running on the AWS slave instance





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