# DeVops Jenkins

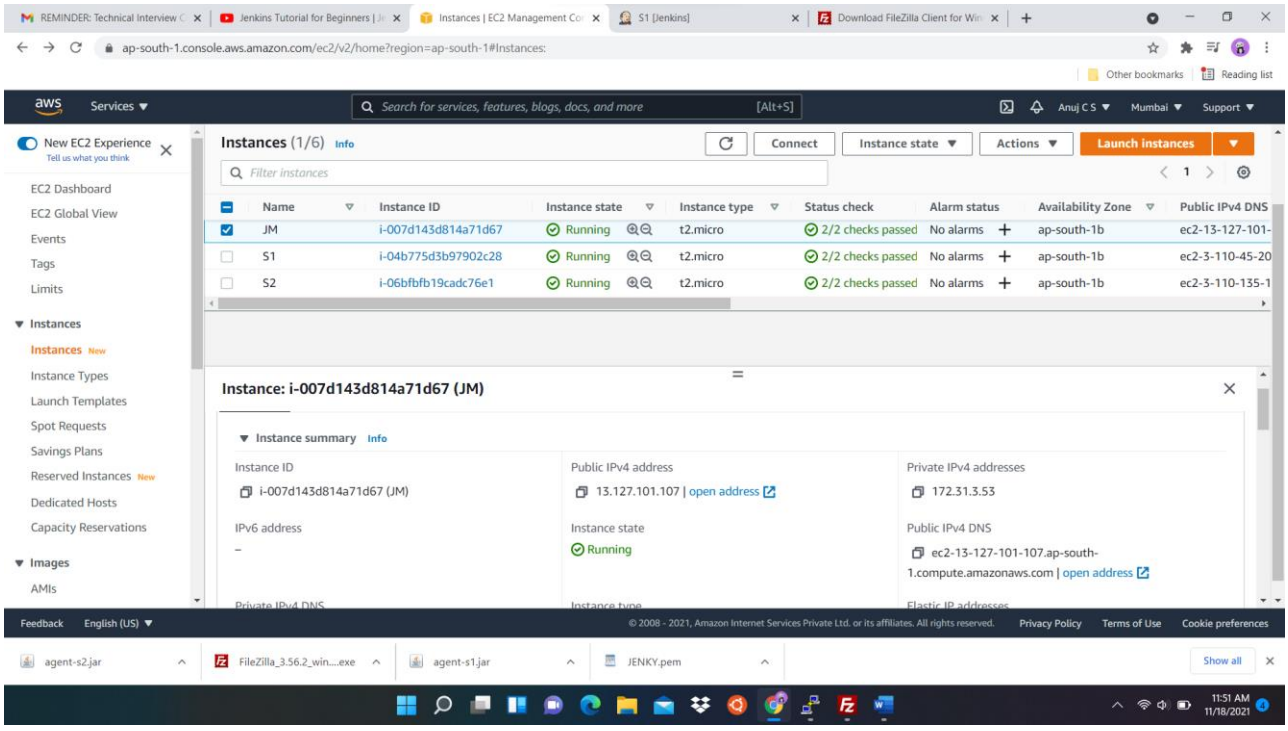
# Assignment 2

BY:

ANKITHA S MADANBHAVI (18BCS008)
ANUJ C SHIRAGAVE(18BCS009)

Assignment-02: Jenkins Master Slave pipeline intellipaat.

Step-1: Firstly, we are creating three aws ec2 instances and naming them as JM, S1, S2.

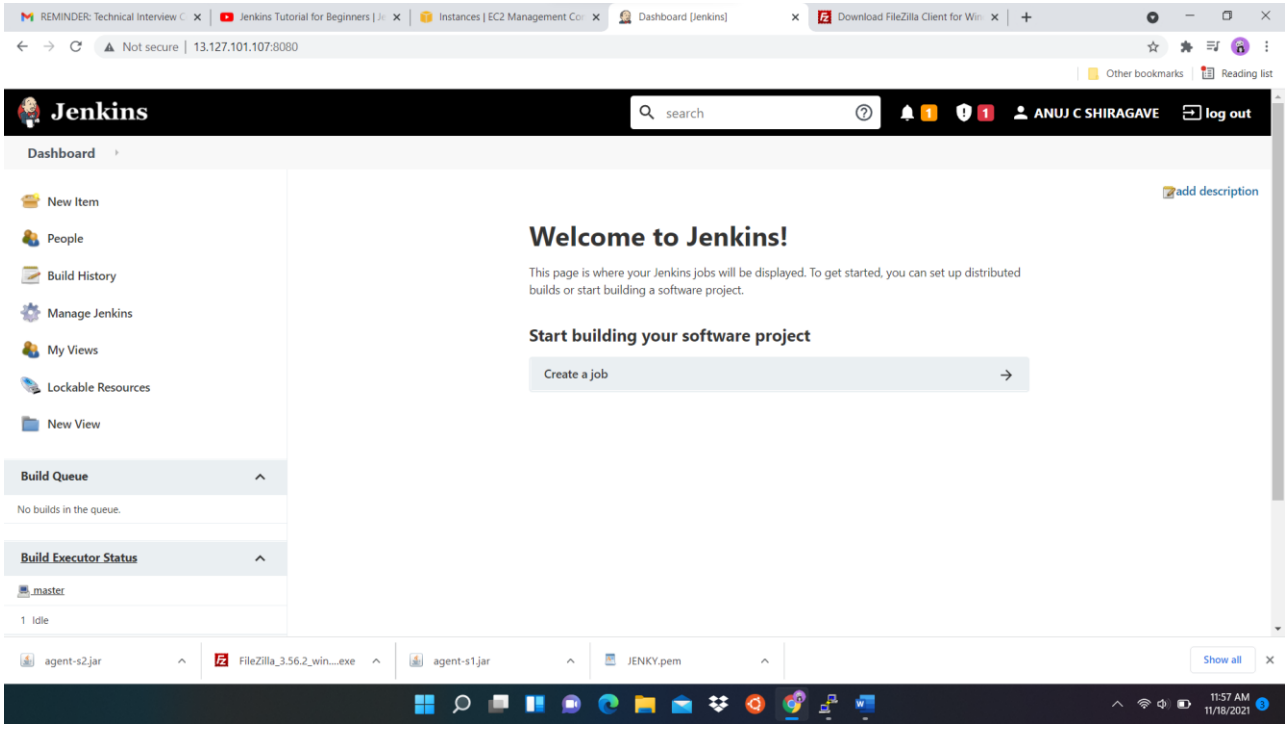


Step-2: Creating three elastic IP addresses and associating these elastic IP addresses to the ec2 instances.

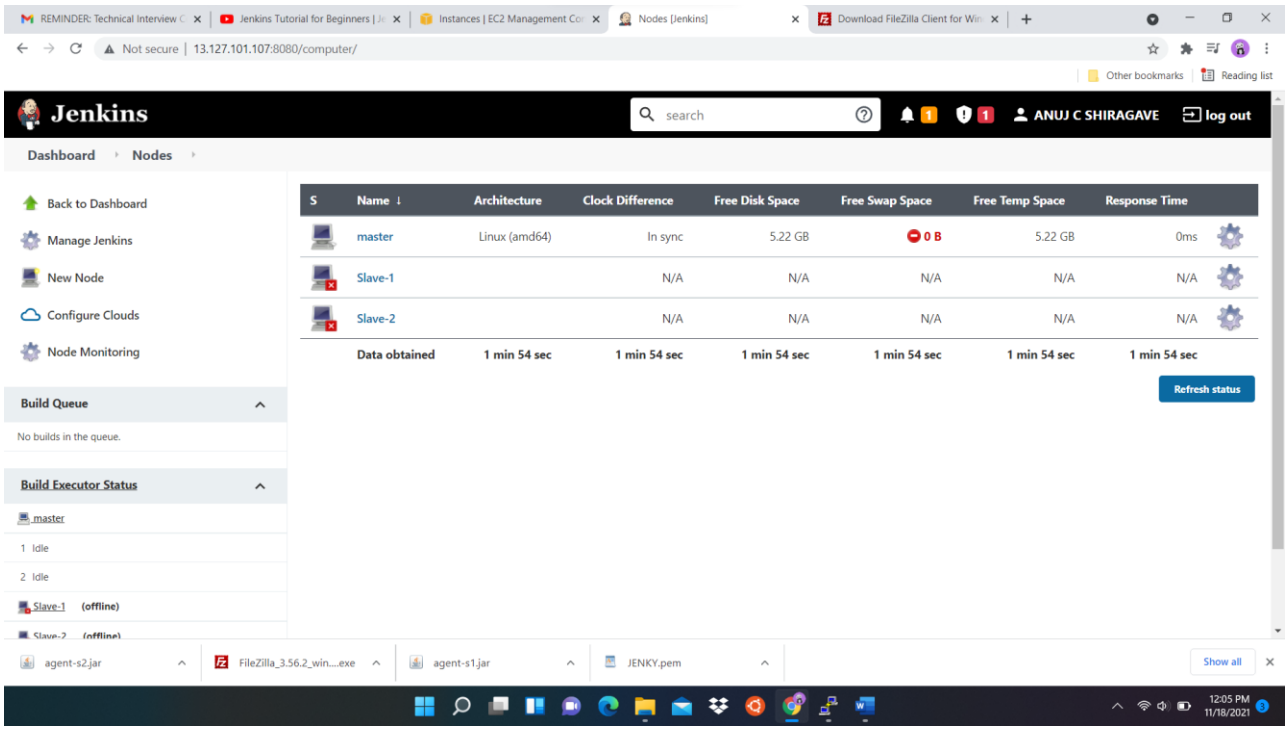
Step-3: Install Jenkins on jenkins_master ec2 instance.

Commands to install Jenkins on ubuntu ec2 instance.

```
sudo apt-get update -y
sudo apt-get install openjdk-8-jdk
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
apt-get install jenkins
sudo service jenkins start
```

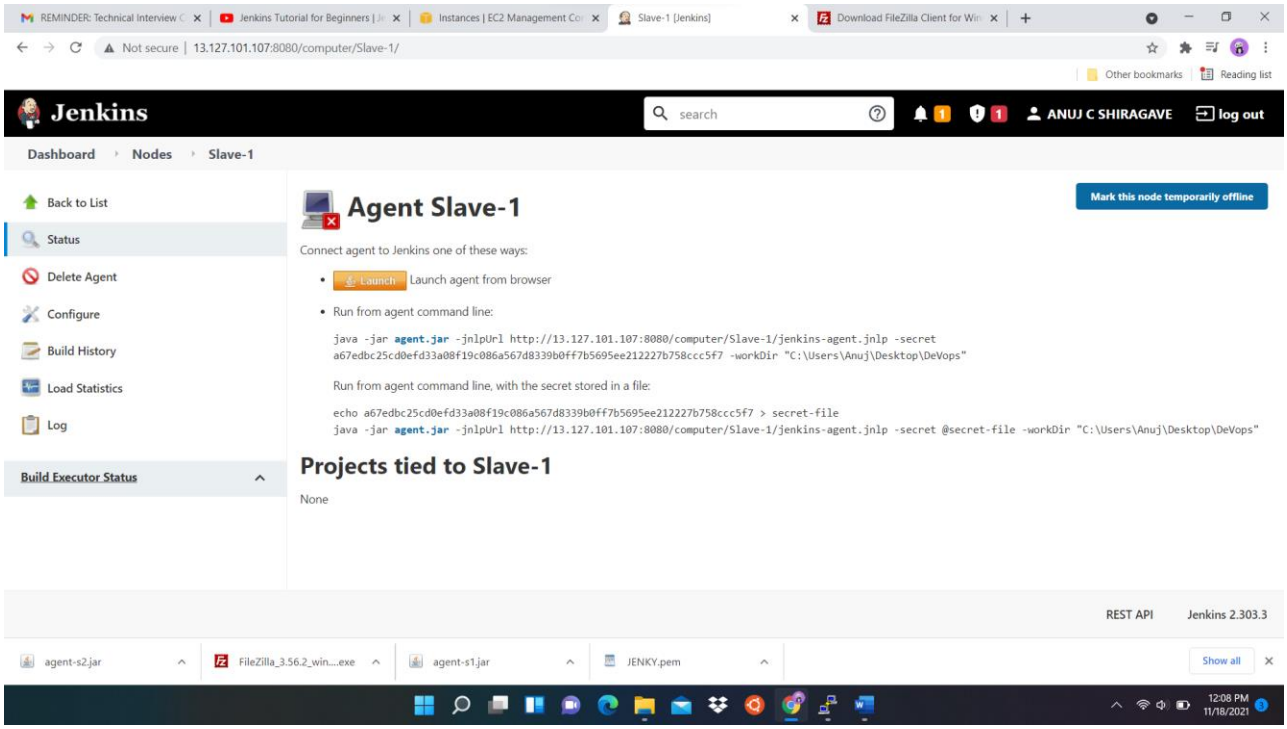



Step-4: Creating two nodes. (one for ec2 slave-1 instance and theother for ec2 slave-2 instance.)

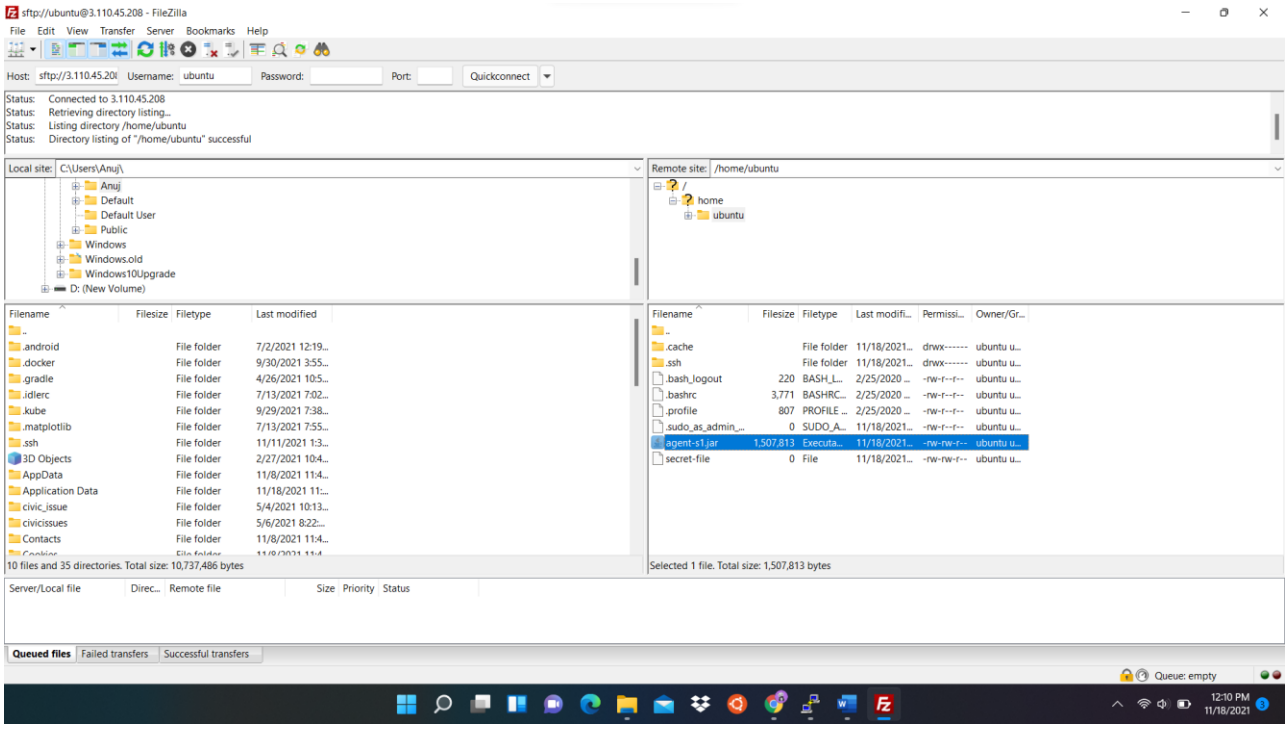


Step-5:

Download agent.jar from Slave-1 node and using Filezilla, transferthat file to slave-1 ec2 instance.

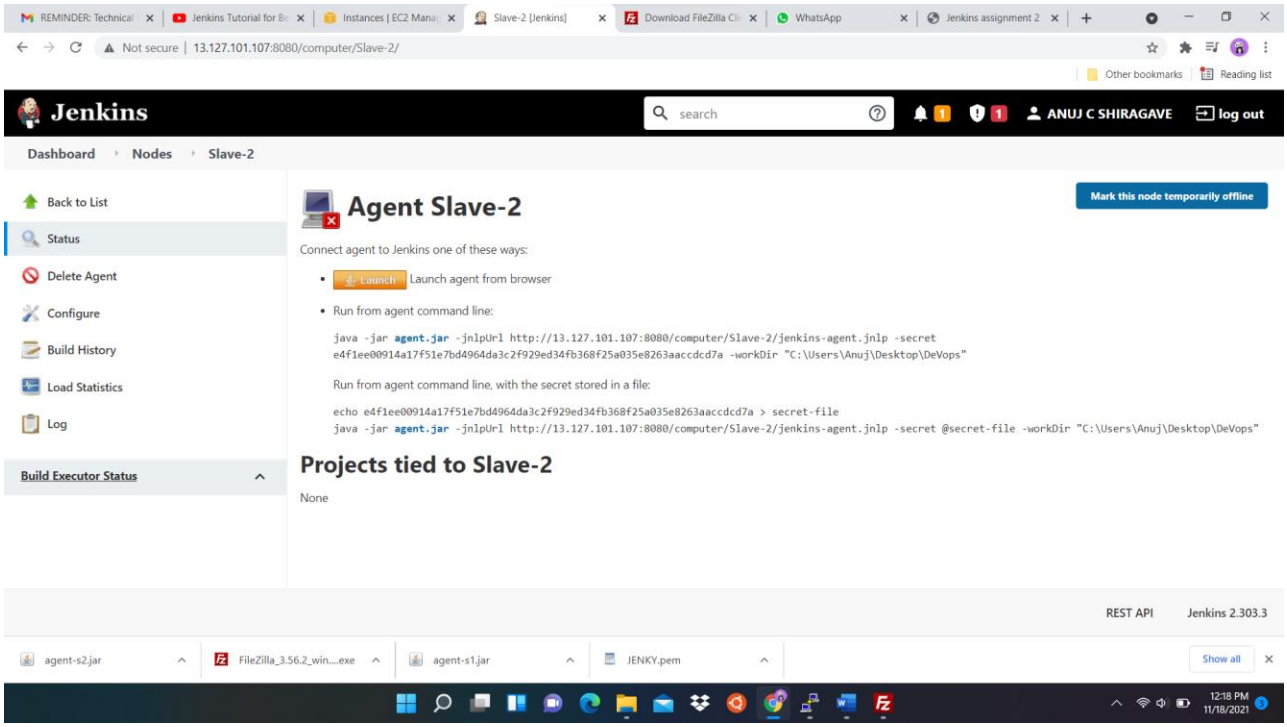



Uploading agent file .jar file on slave 1 using Filezilla

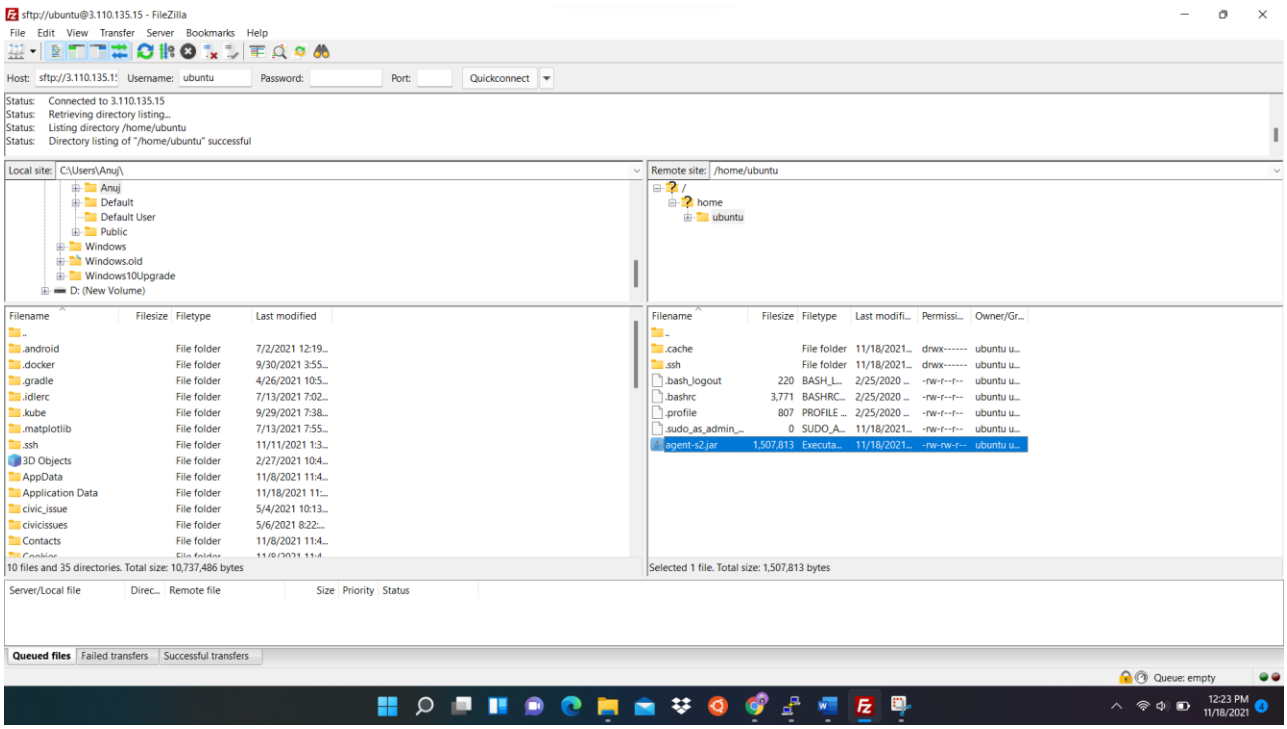


Step-5:

Download agent.jar from Slave-2 node and using Filezilla, transferthat file to slave-2 ec2 instance.



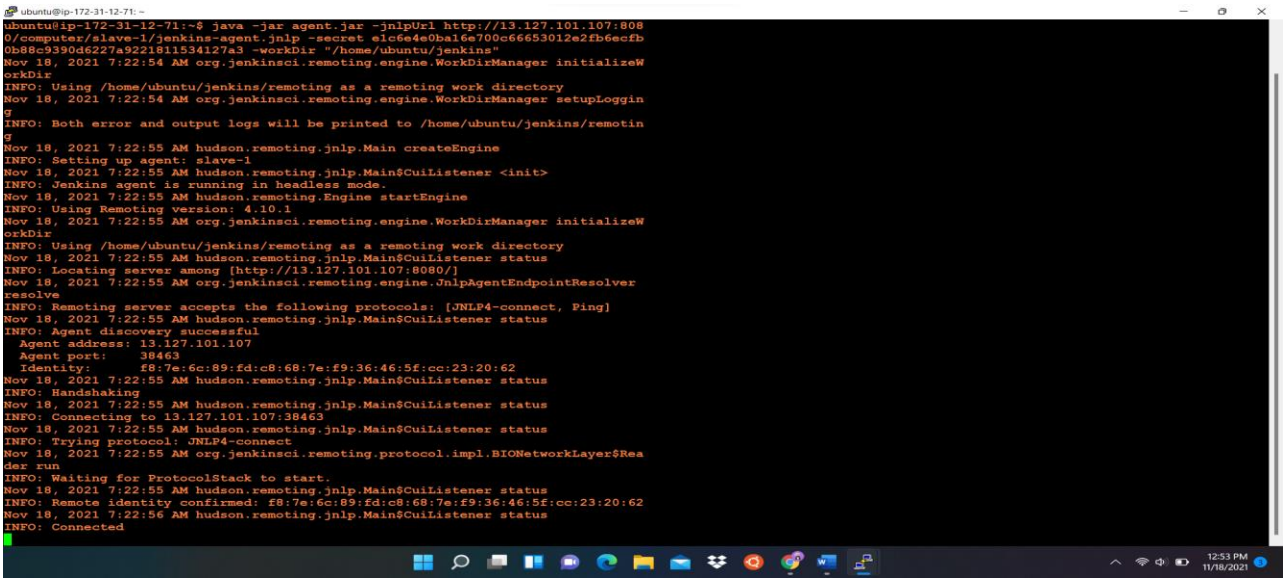

Uploading agent file .jar file on slave 2 using Filezilla

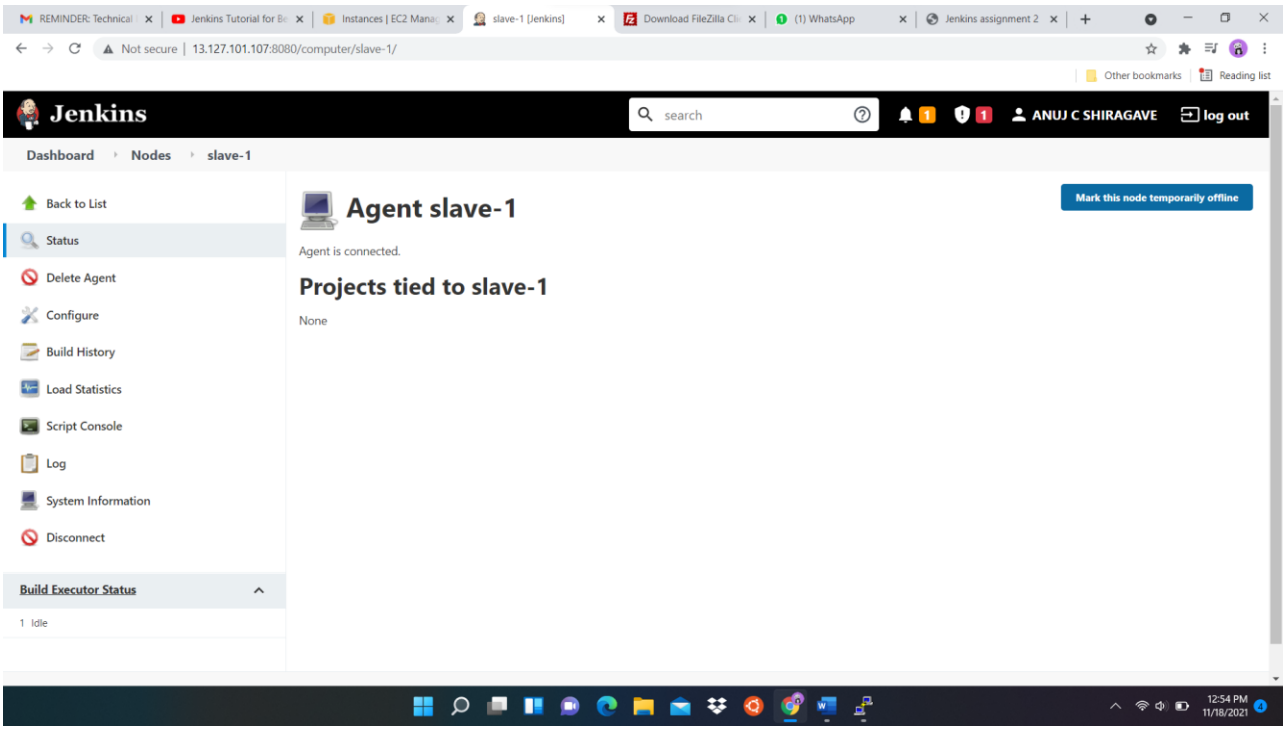


Step-6:

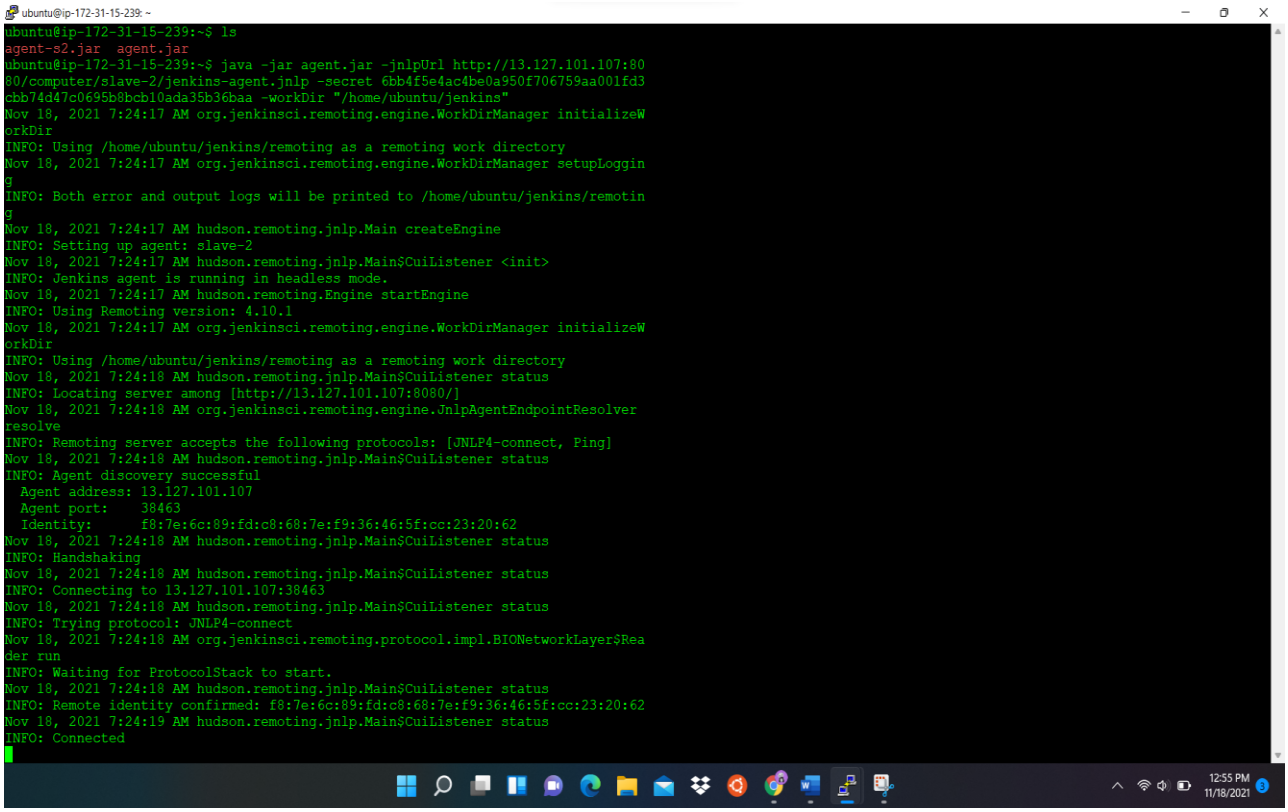
Run the command on the ec2 instances so that we can connect the nodes to the Jenkins.

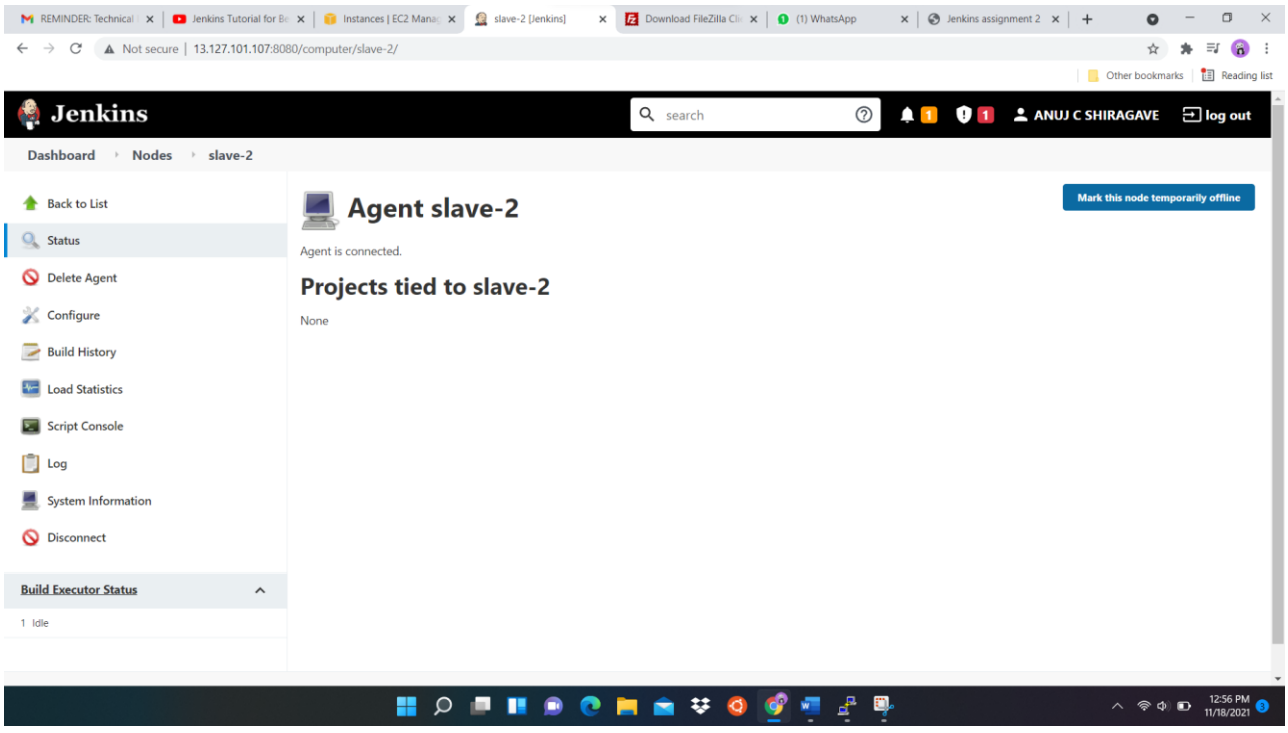
SLAVE-1 CONNECTED

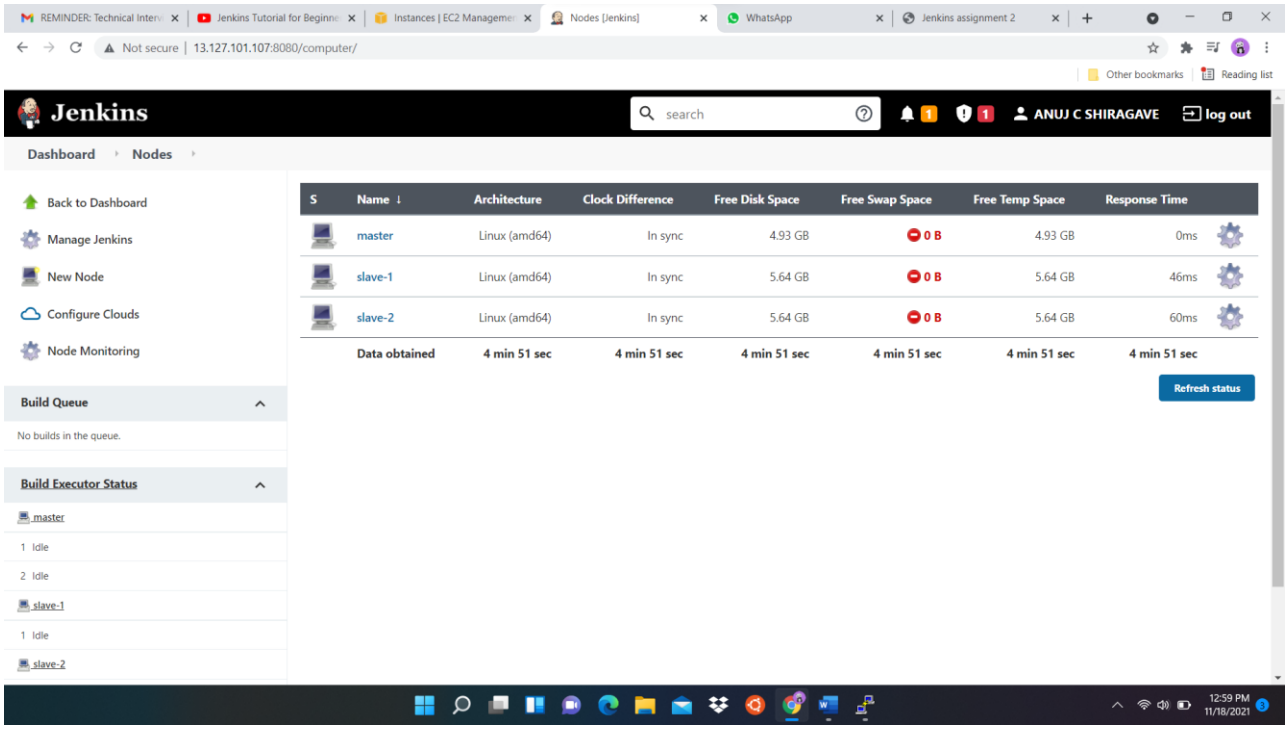


# SLAVE-2 CONNECTED.

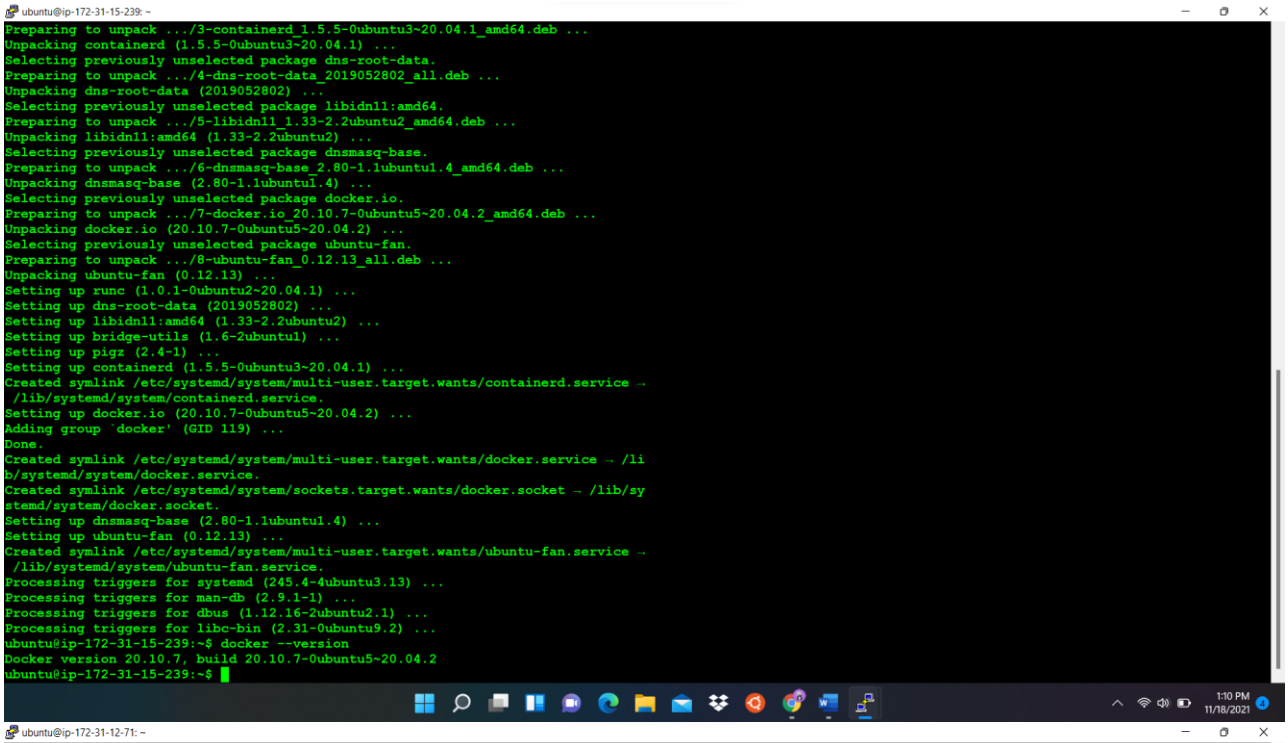


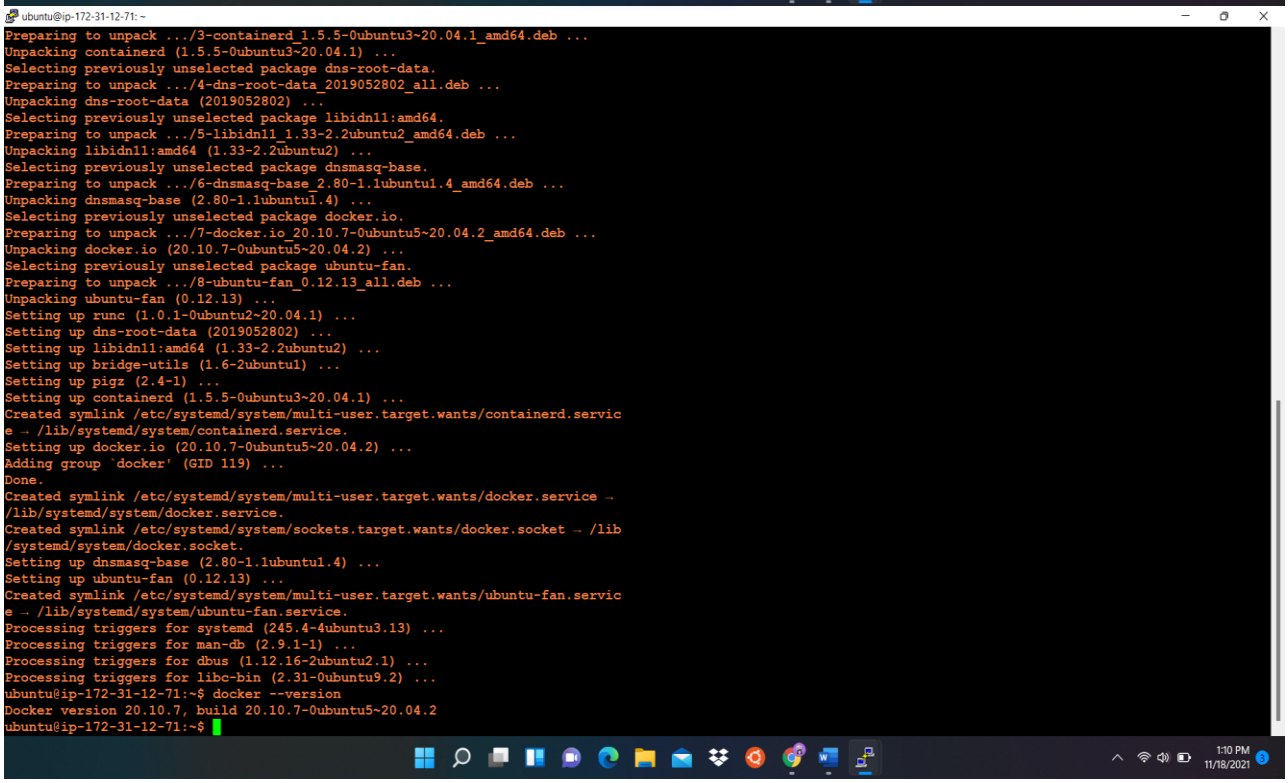




Jenkins
search
ANUJ C SHIRAGAVE
log out
Dashboard
Nodes
Back to Dashboard
Manage Jenkins
New Node
Configure Clouds
Node Monitoring
Build Queue
No builds in the queue.
Build Executor Status
master
1 Idle
2 Idle
slave-1
1 Idle
slave-2
S
Name
Architecture
Clock Difference
Free Disk Space
Free Swap Space
Free Temp Space
Response Time
master
Linux (amd64)
In sync
4.93 GB
0 B
4.93 GB
0ms
slave-1
Linux (amd64)
In sync
5.64 GB
0 B
5.64 GB
46ms
slave-2
Linux (amd64)
In sync
5.64 GB
0 B
5.64 GB
60ms
Data obtained
4 min 51 sec
4 min 51 sec
4 min 51 sec
4 min 51 sec
4 min 51 sec
4 min 51 sec
Refresh status
12:59 PM
11/18/2021

Step-7:

Install docker on Slave-1(orange) and Slave-2(green) ec2 instances.

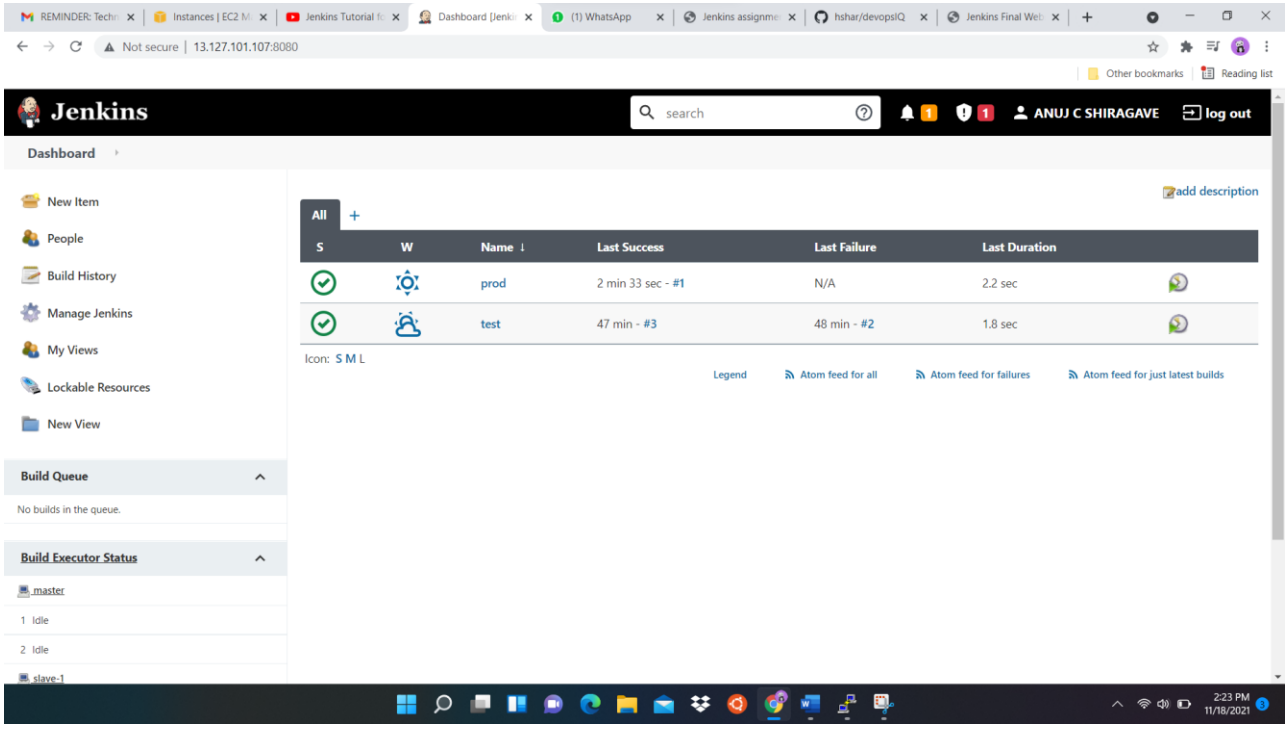


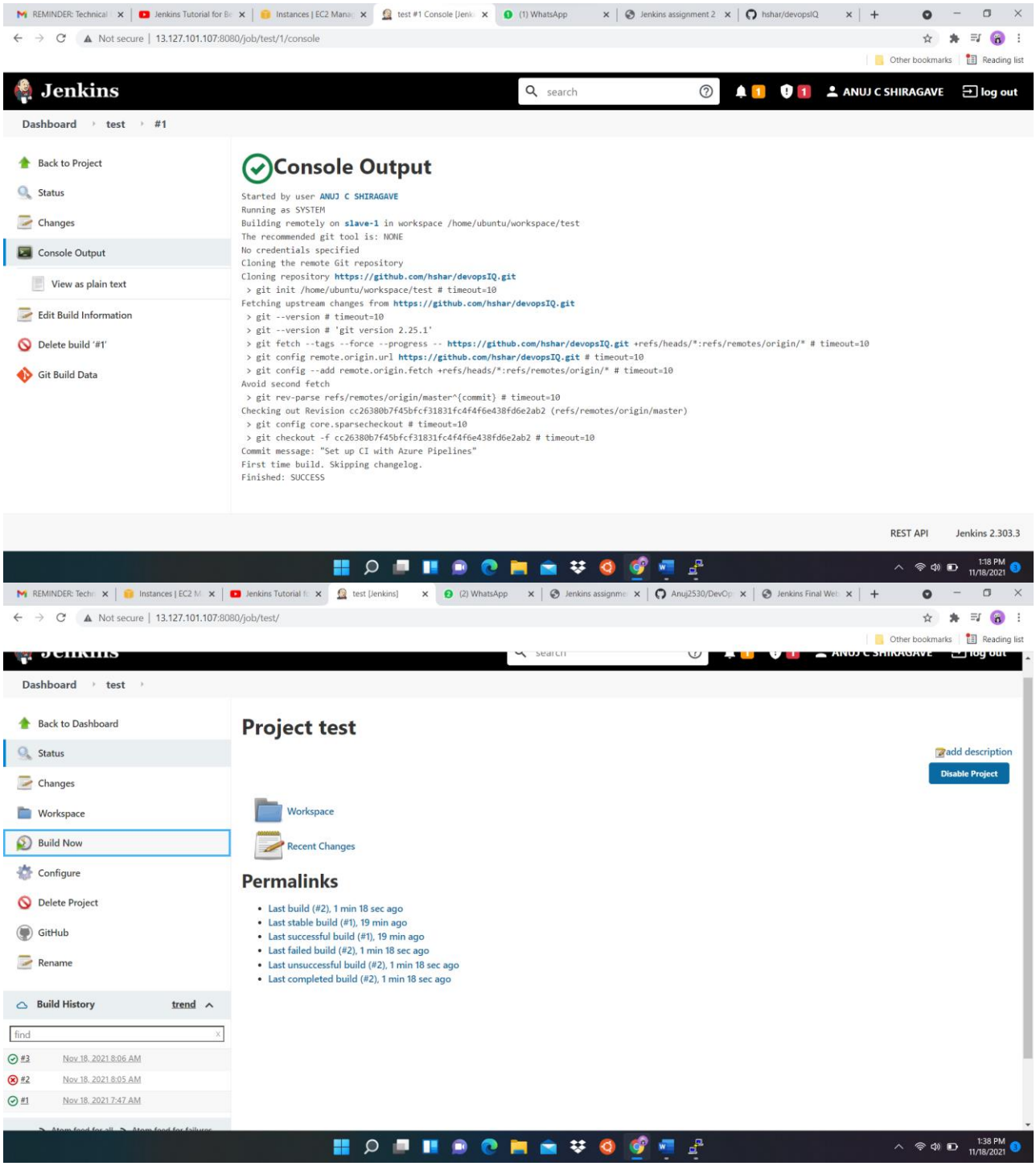
Step 8:

Create two jobs (test for Slave-1 and prod for Slave-2)

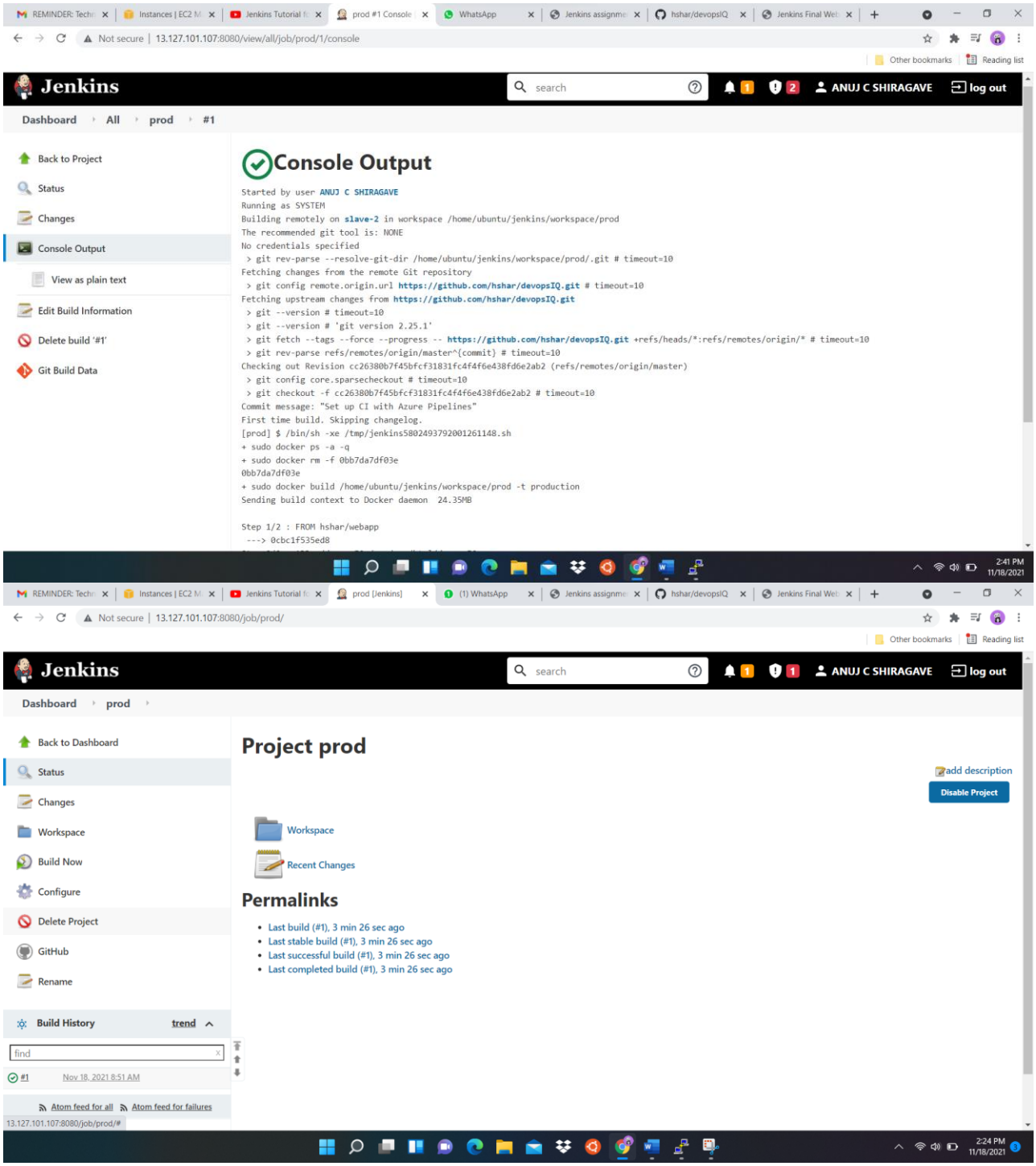
In configure, we are setting source code management as git and passing our Github repo link, in build we are selecting execute shell and writing some commands to run.



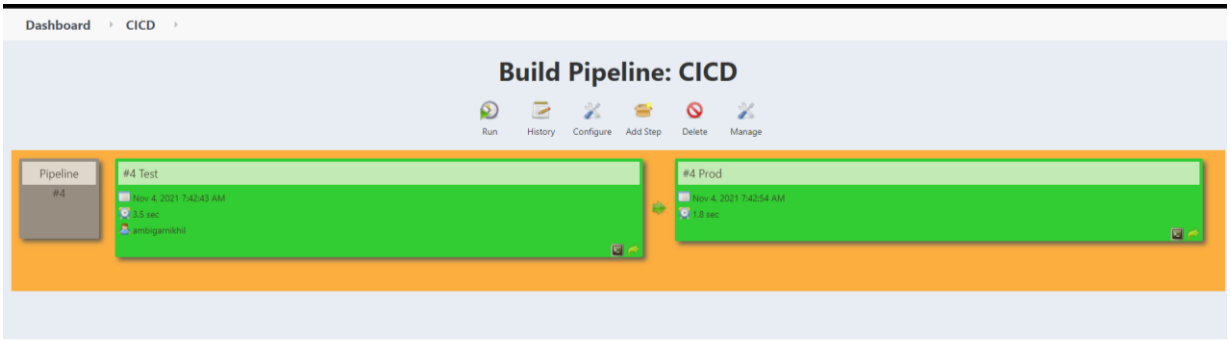
Step 9: Build Test job.



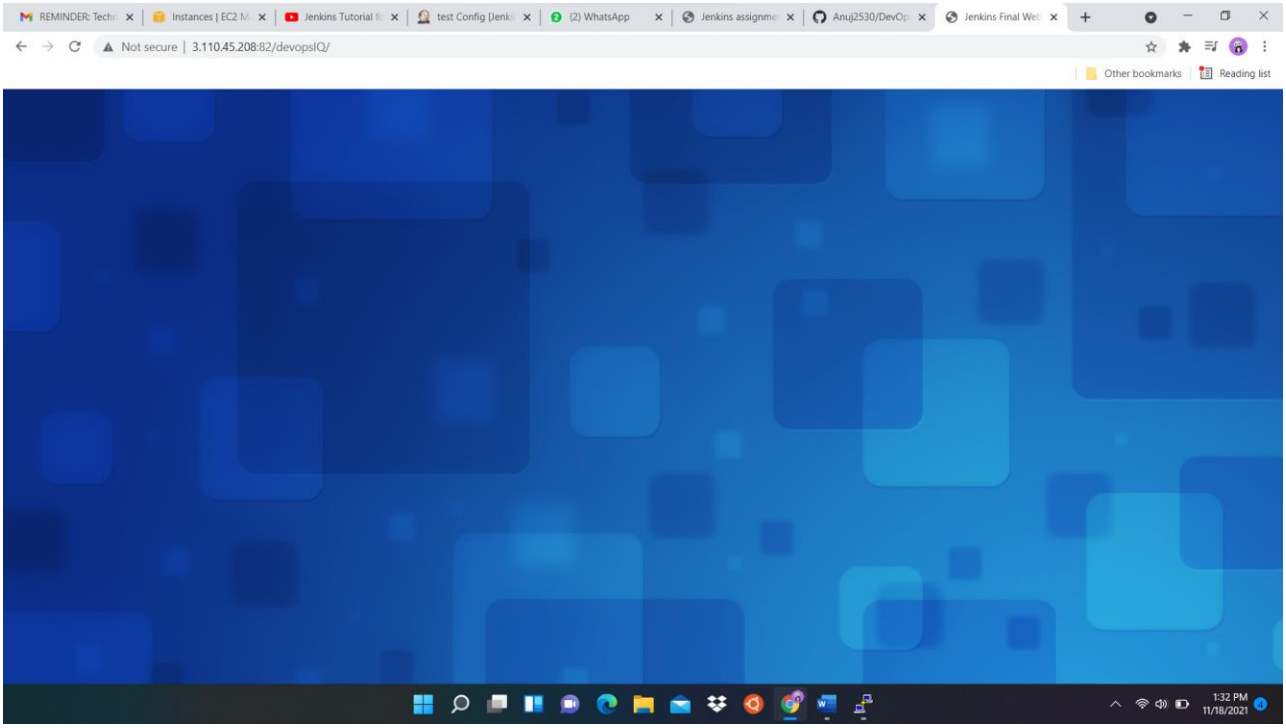
Step 10: Build prod job.



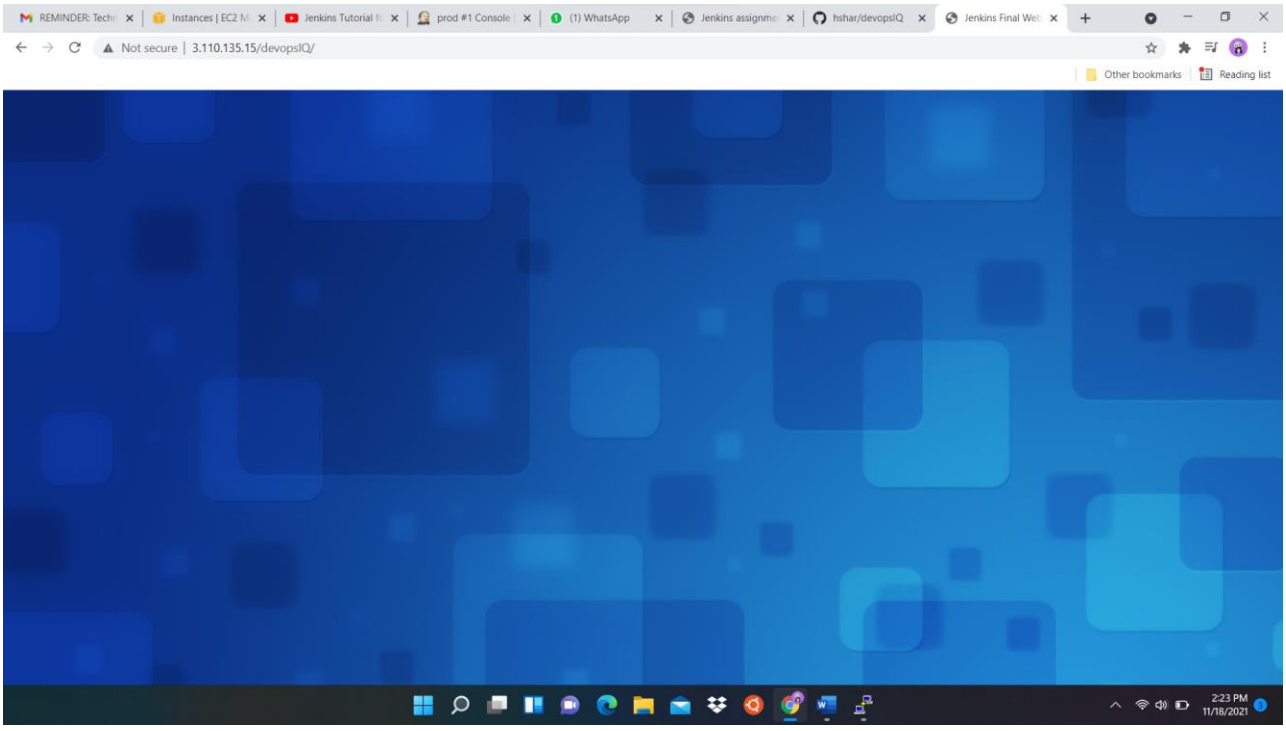
Step-11: Creating the pipeline




Step-12: After successfully building our project we can see our website using slave-1 IP at port 82.




We can see our website using slave-2 IP at port 82.




THANK YOU