DeVops Jenkins Assignment

Assignment-02: Jenkins Master Slave pipeline intellipaat.

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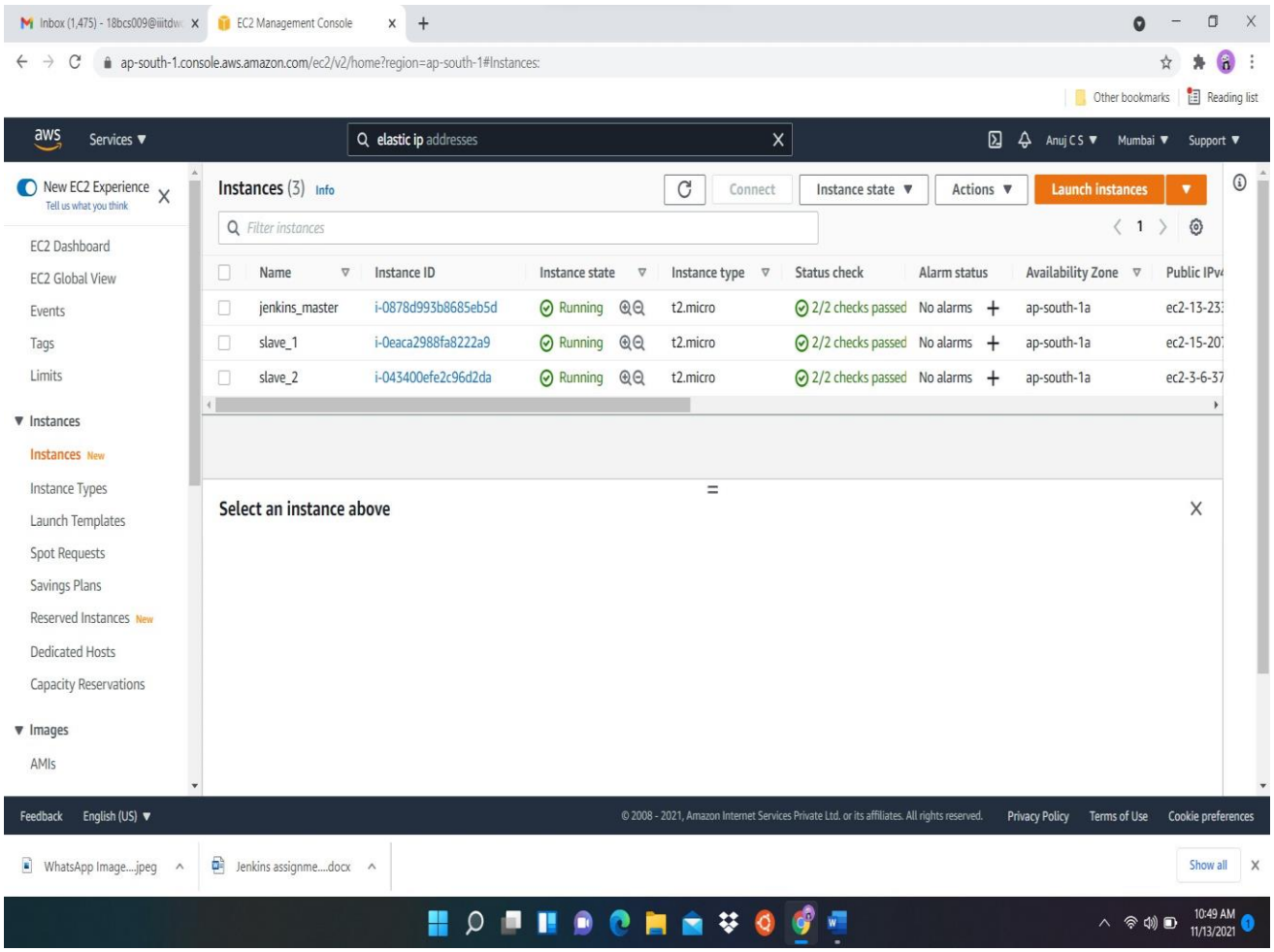
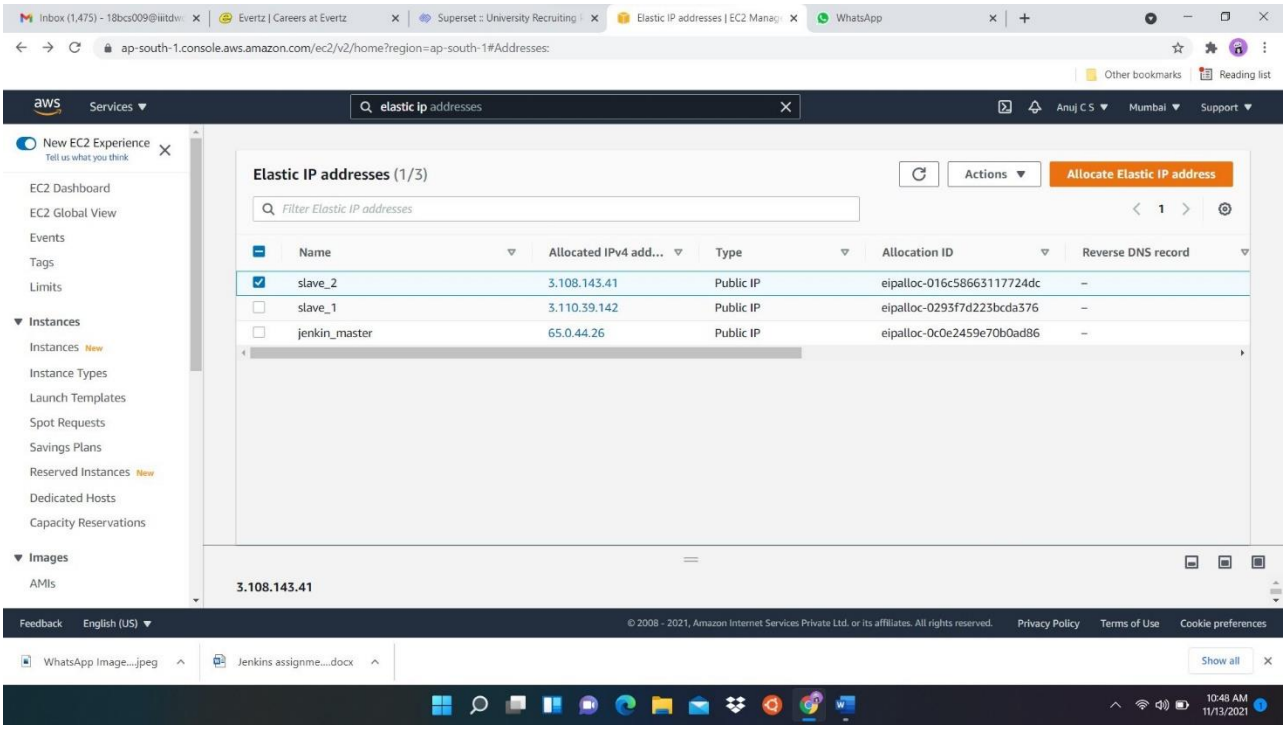
Step-1: First, we are creating three aws ec2 instances and naming them as jenkins_master, slave-1, slave-2.

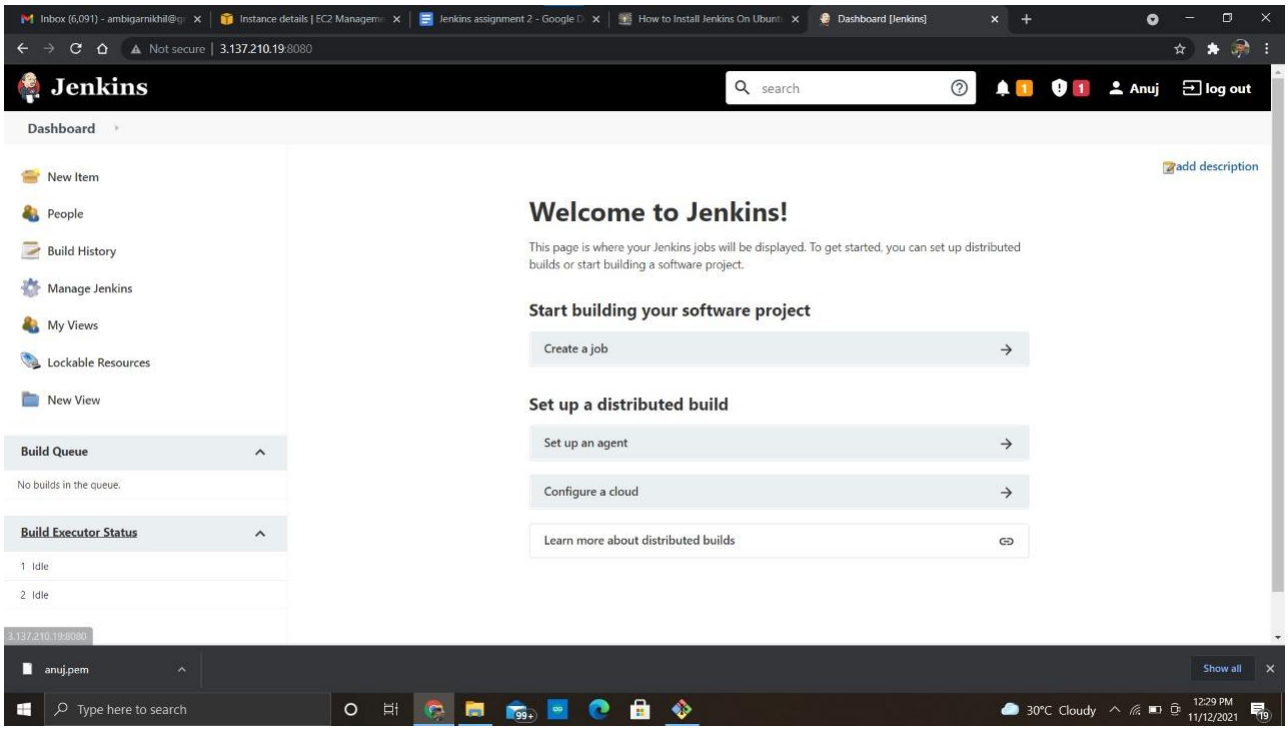


Step-2: Creating three elastic IP addresses and associating these elastic IP addresses to the ec2 instances.

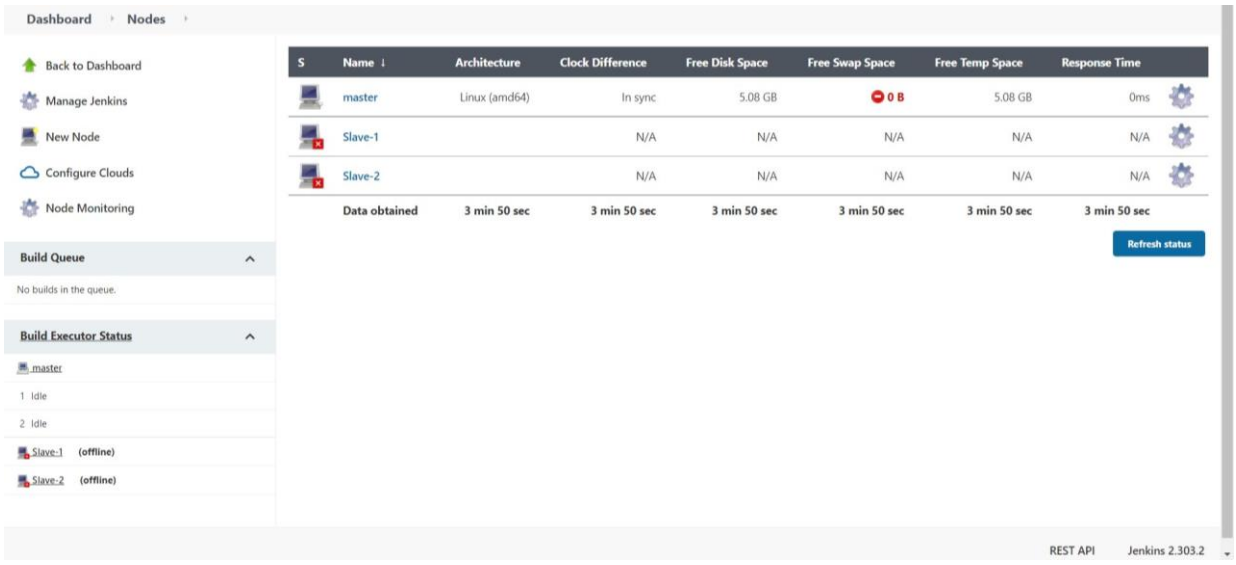


Step-3: Install Jenkins on jenkins_master ec2 instance.
Commands to install Jenkins on ubuntu ec2 instance.

```
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
```

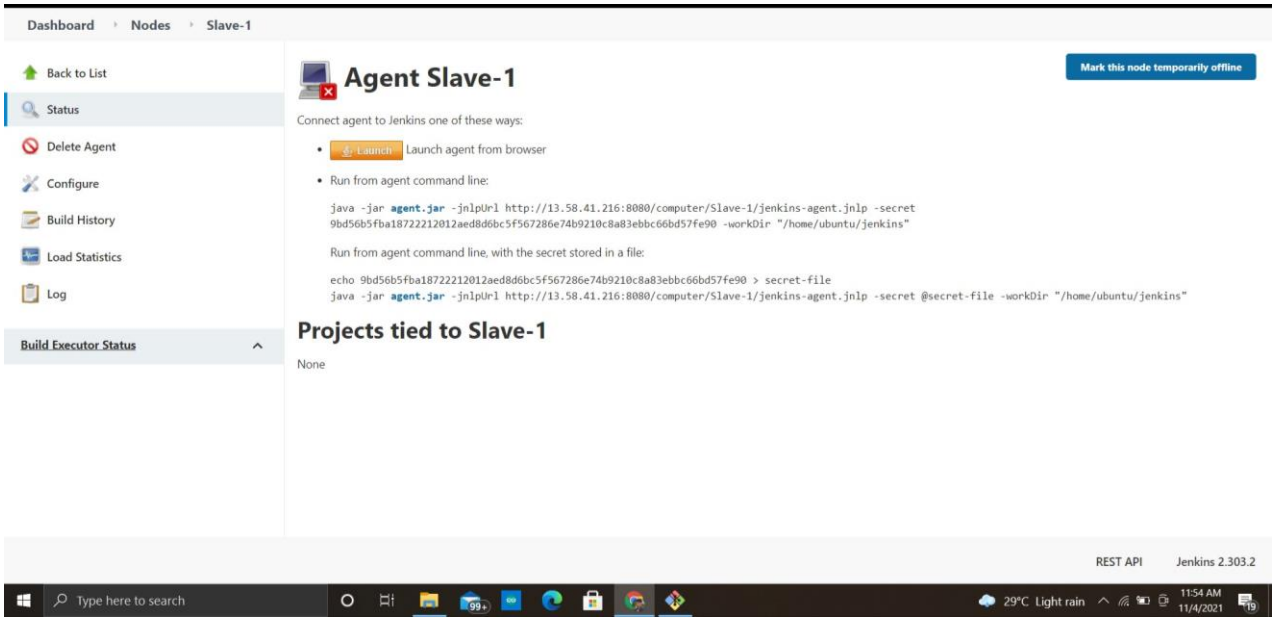


Step-4: Creating two nodes. (one for ec2 slave-1 instance and the other for ec2 slave-2 instance.)

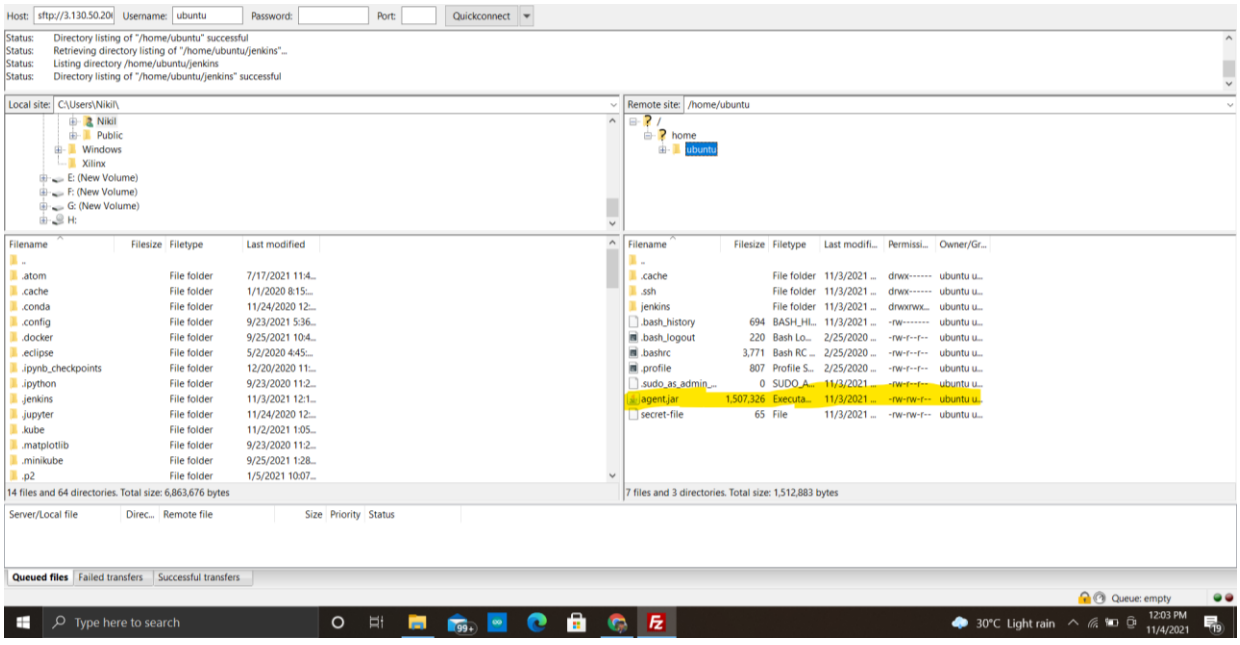


Step-5:

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

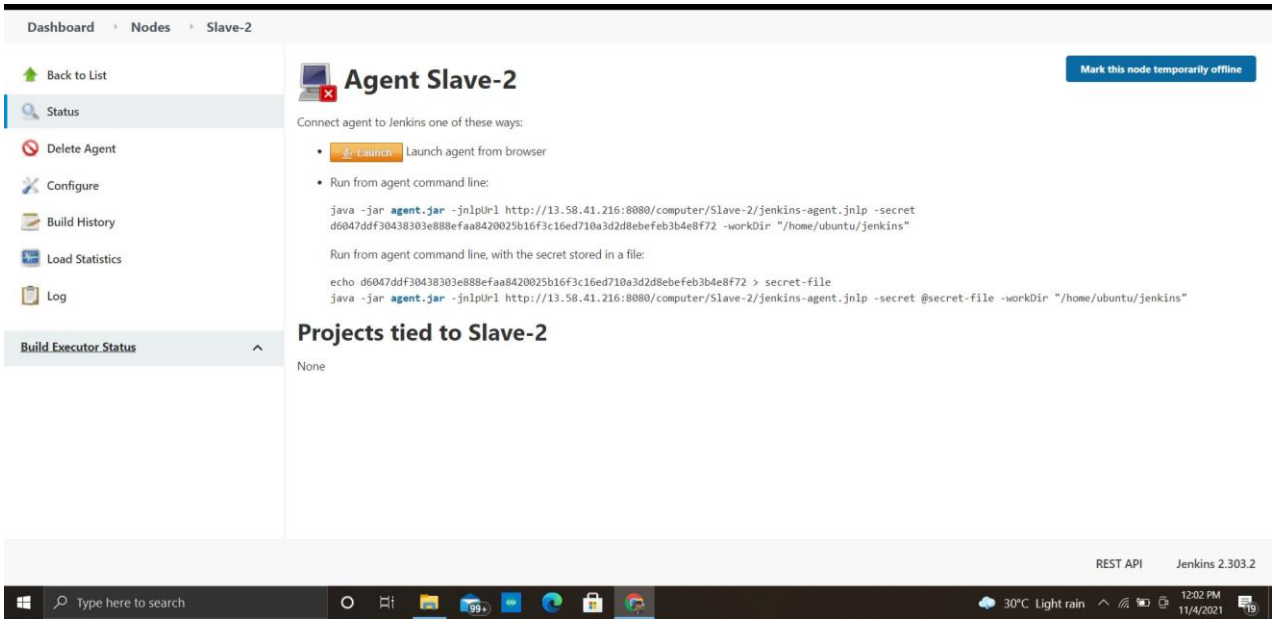


SLAVE-1

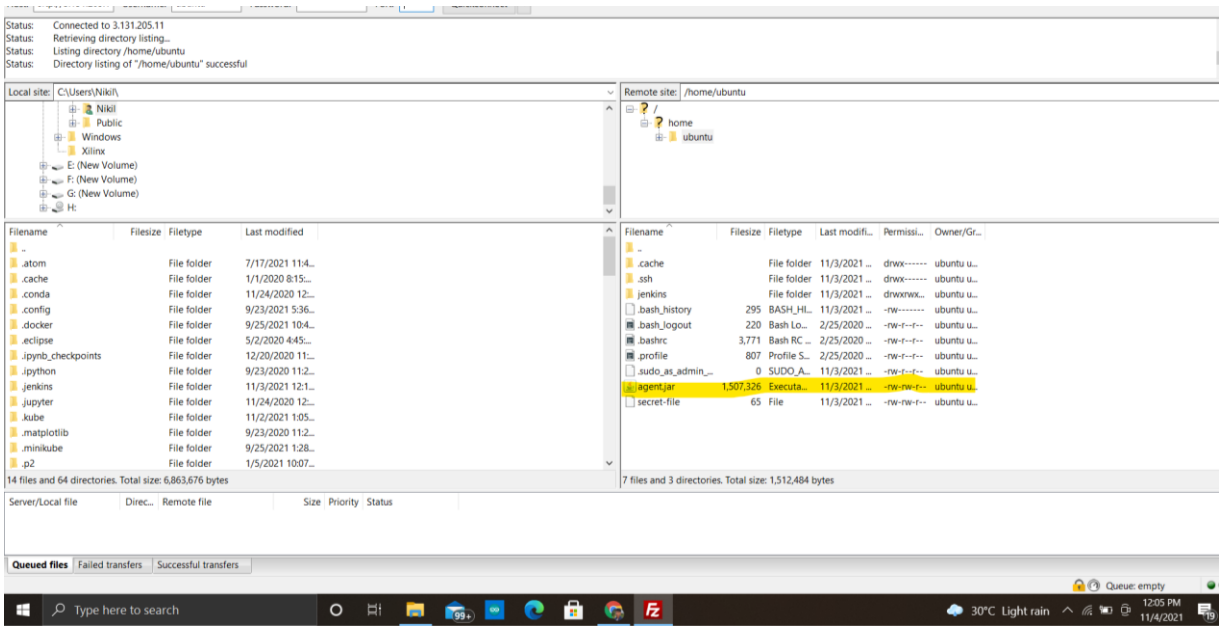


Step-5:

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



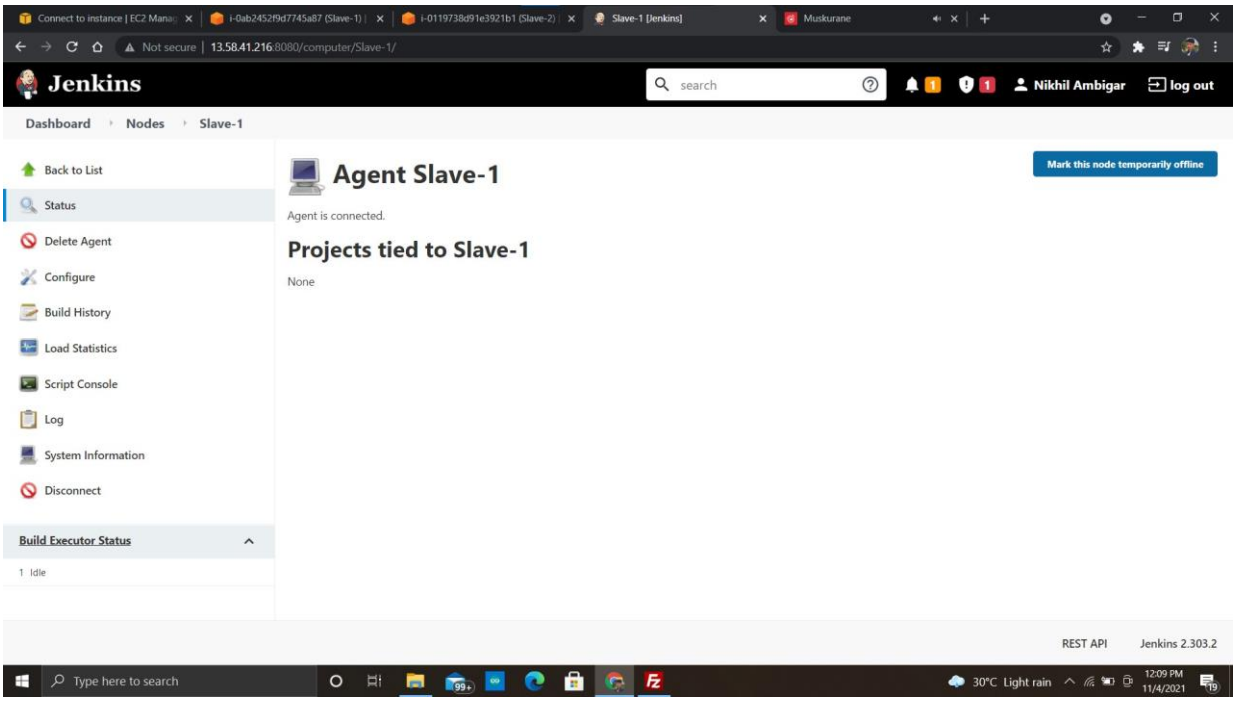
SLAVE-2



Step-6:

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

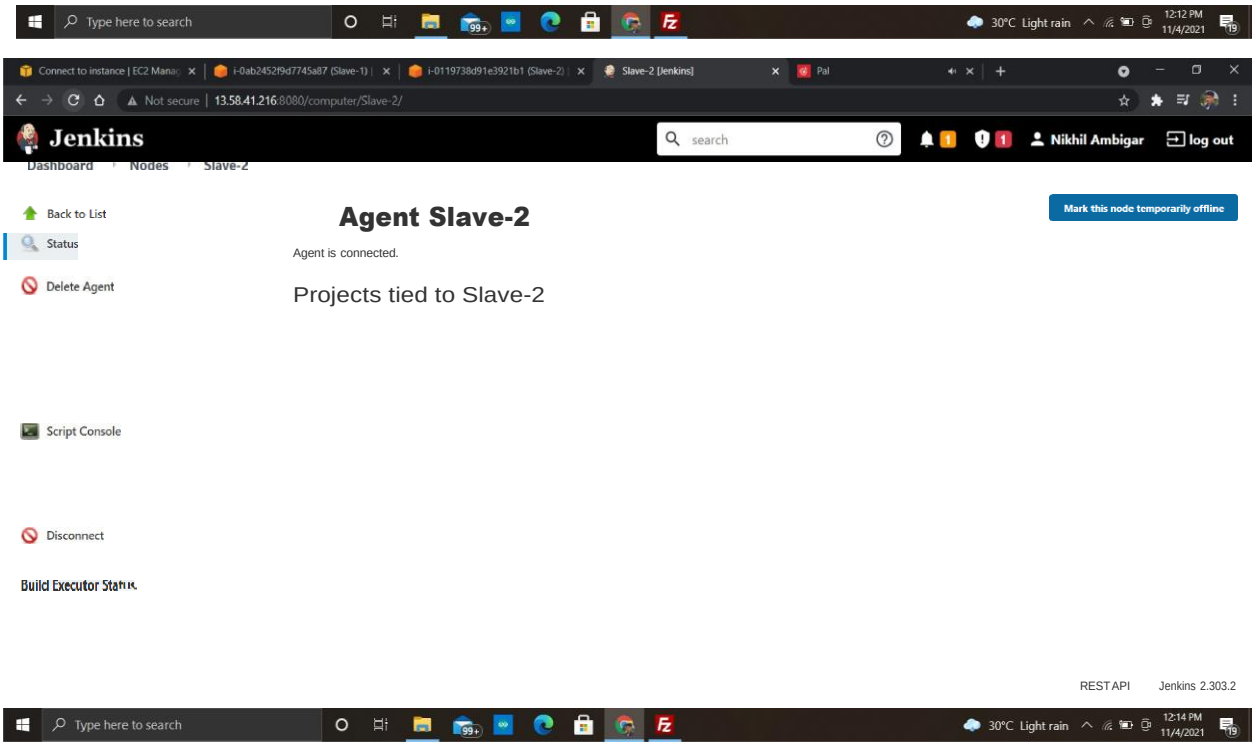
SLAVE-1 CONNECTED

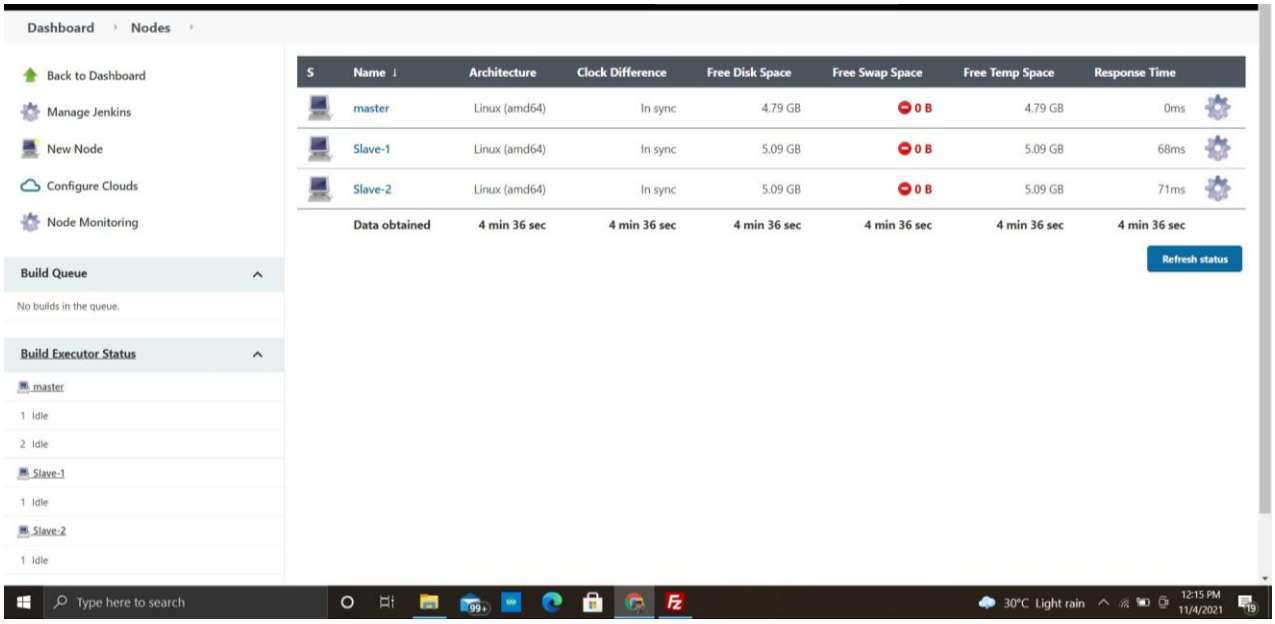


SLAVE-2 CONNECTED.

i-0119738d91e3921b1 (Slave-2)

Public iPs: 3.131.20fi.11 Private iPs: 172.31.35.96





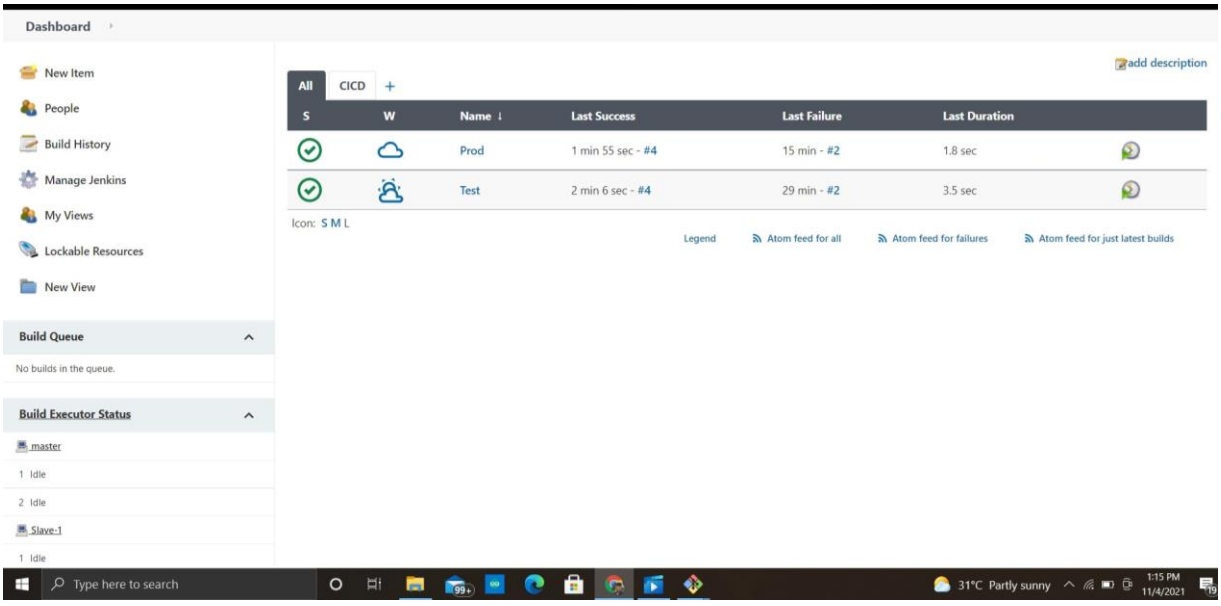
Step-7:

Install docker on Slave-1 and Slave-2 ec2 instances.

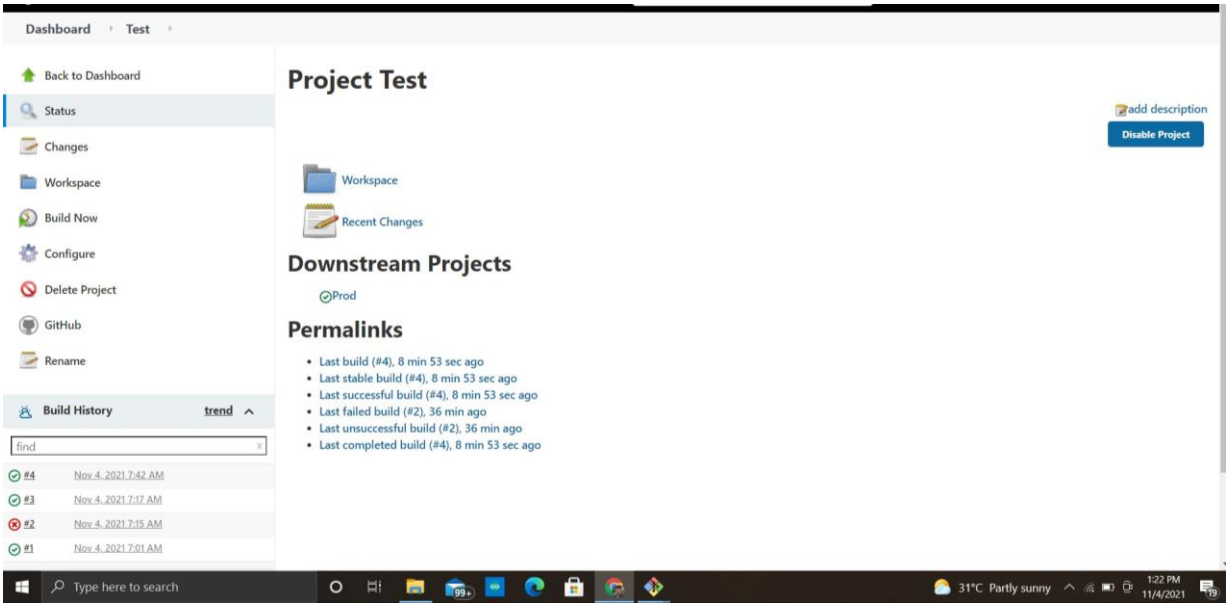
Step 8:

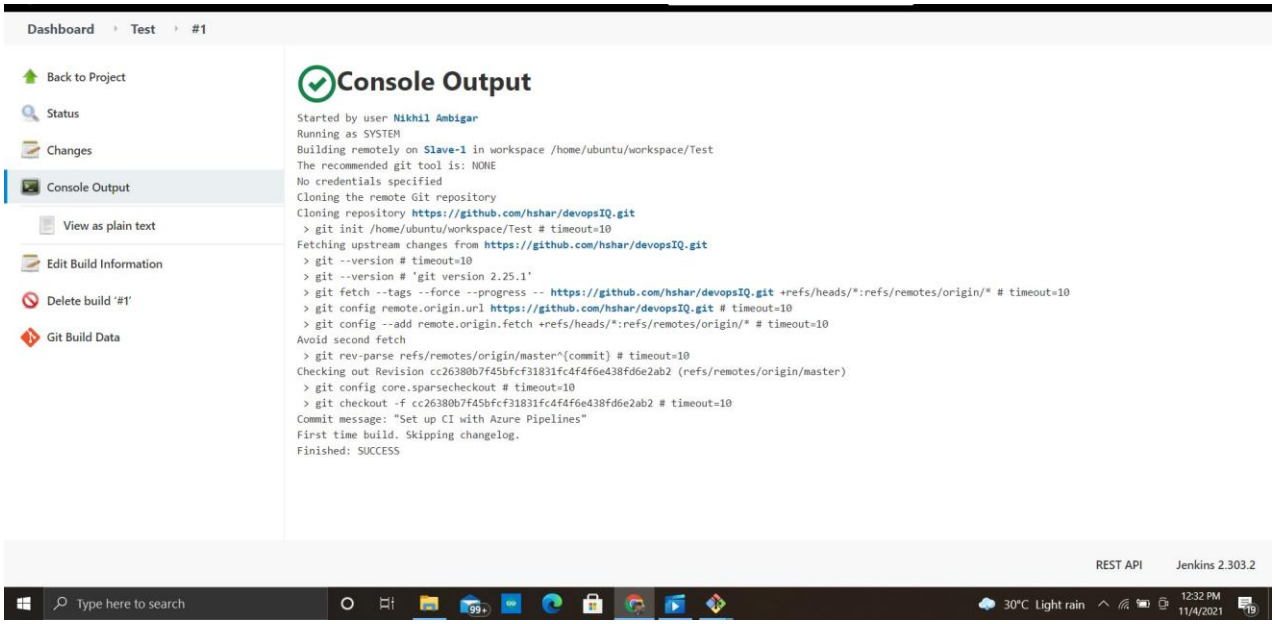
Create two jobs (test for Slave-1 and prod for Slave-2)

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.

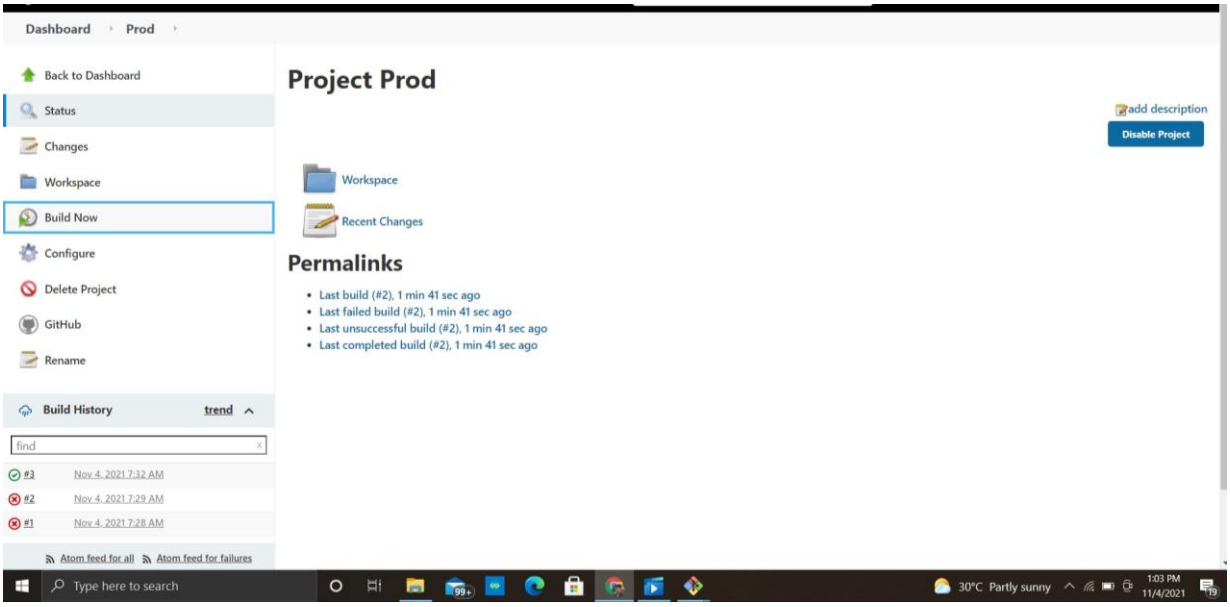


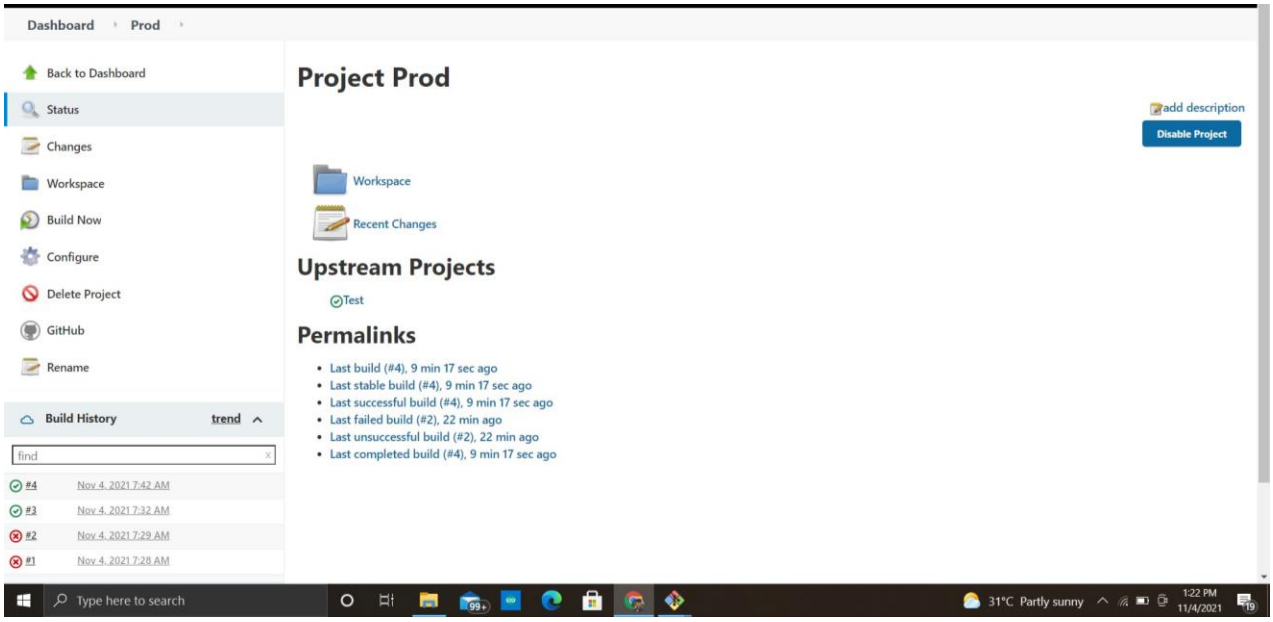
Step 9: Build Test job.



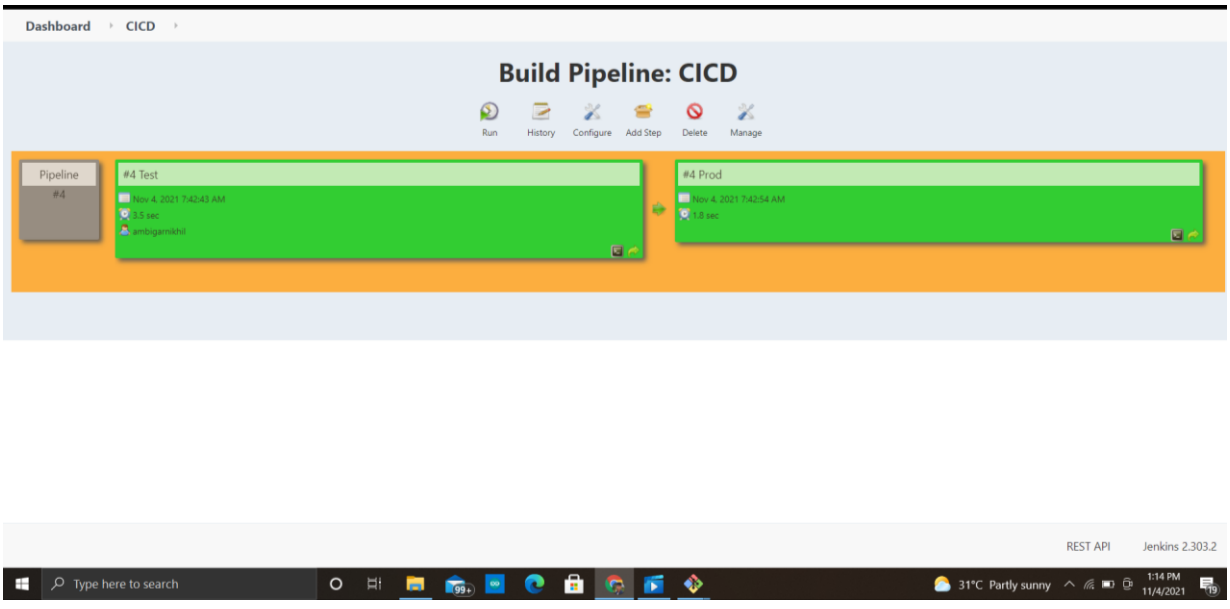


Step 10: Build prod job.





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