DEVOPS ASSIGNMENT-2

Assignment-02: Jenkins Master Slave pipeline intellipaat

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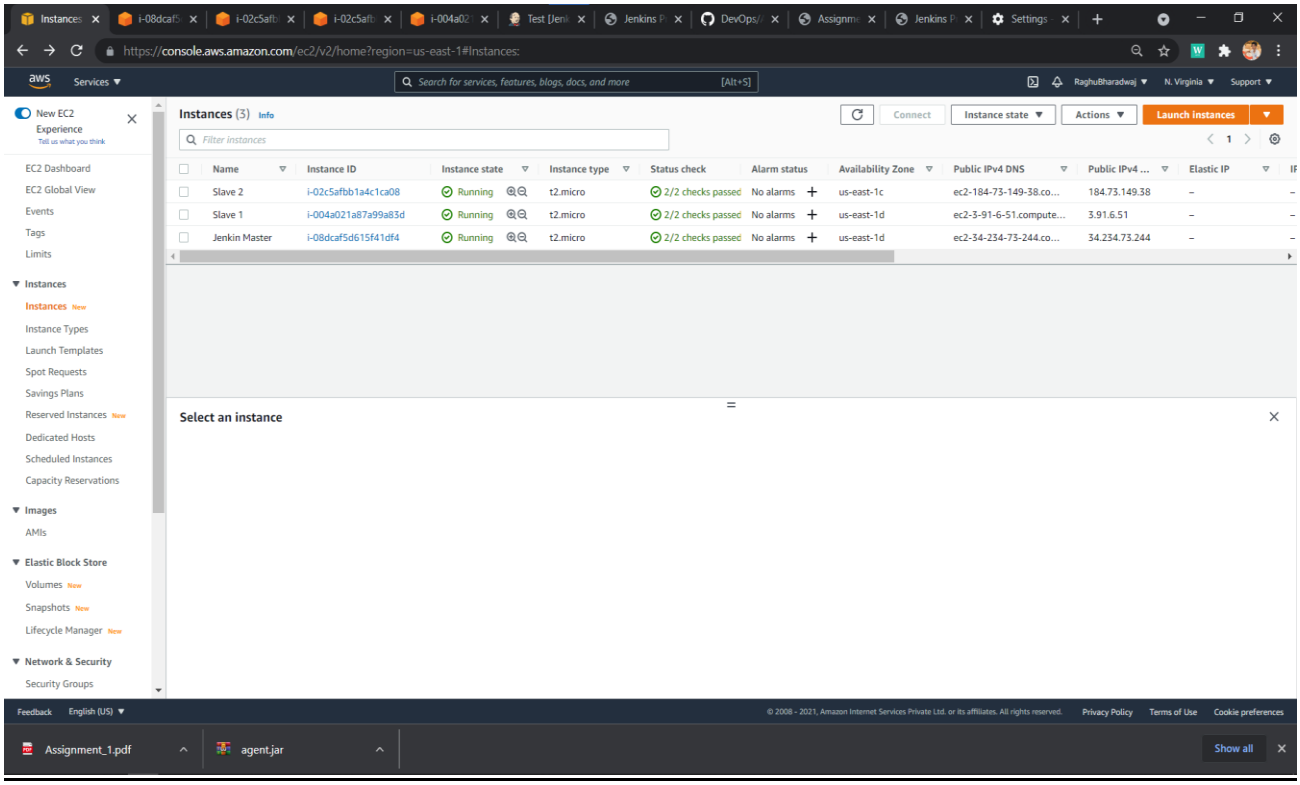
To:

Dr.Uma Sheshadri

Professor,CSE(HOD)

Step 1: Firstly we have to Launch 3 instances i,e Jenkins_Master, Slave 1,Slave 2.



Step 2: Use this 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/ > \

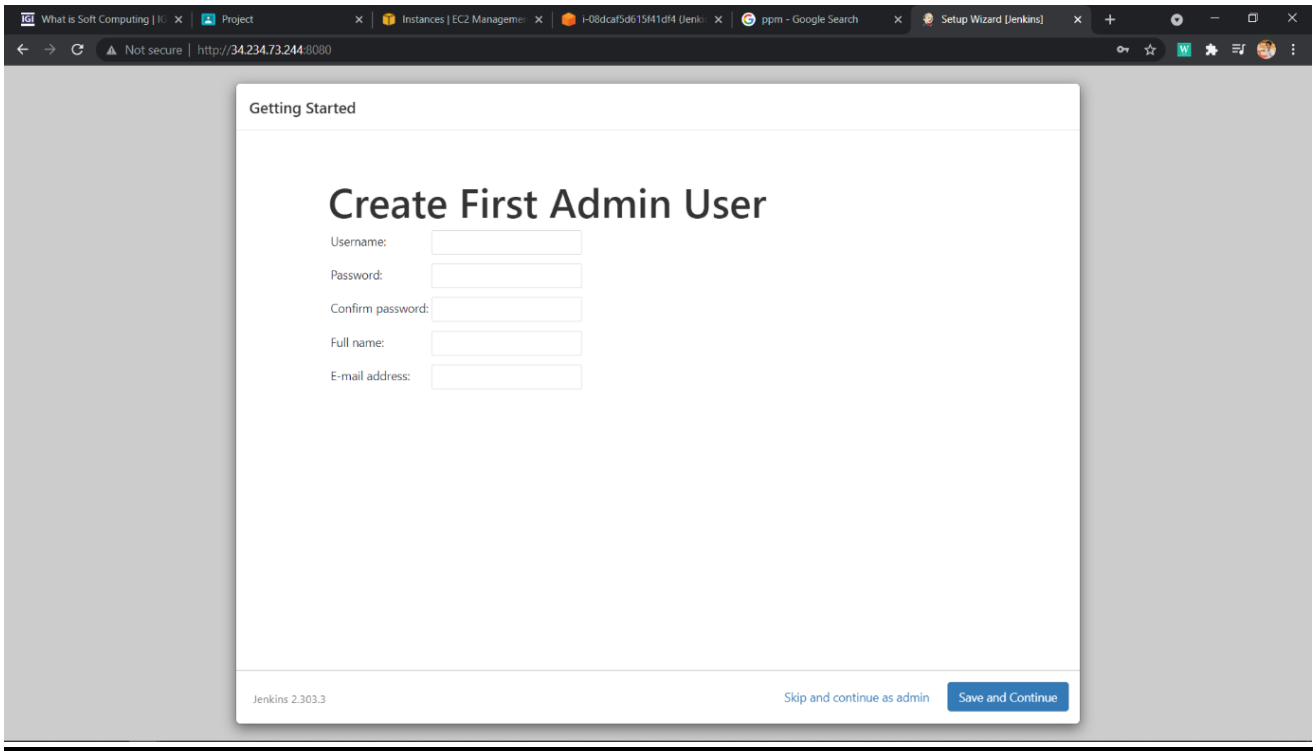
/etc/apt/sources.list.d/jenkins.list'

sudo apt-get update

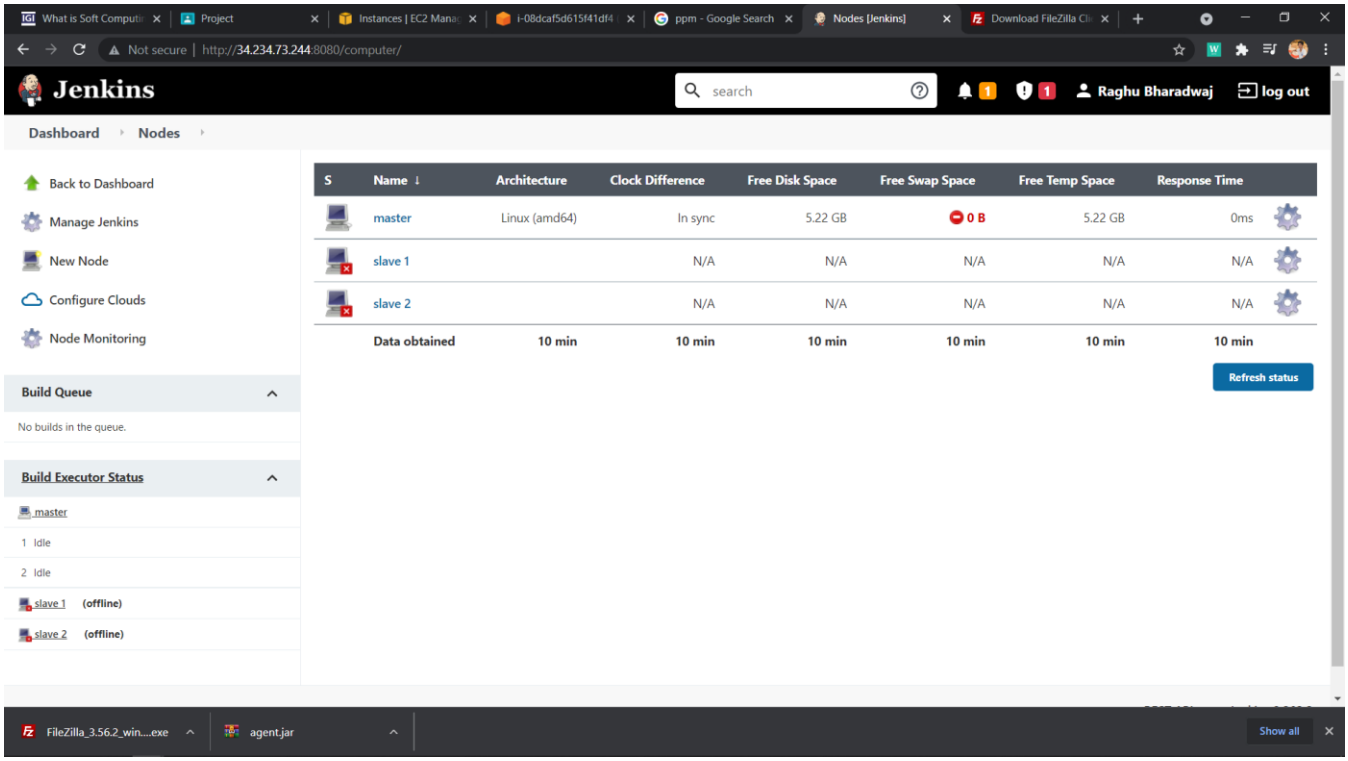
apt-get install jenkins

sudo service jenkins start

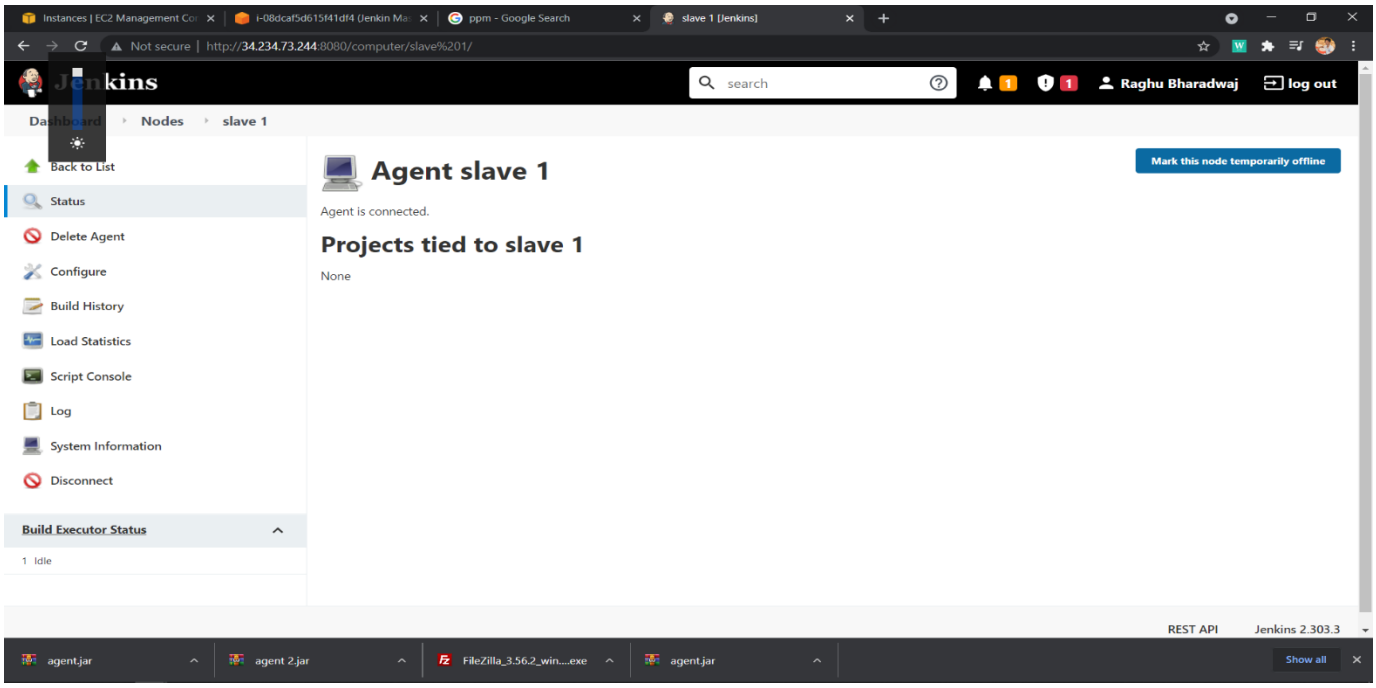
Step 3:



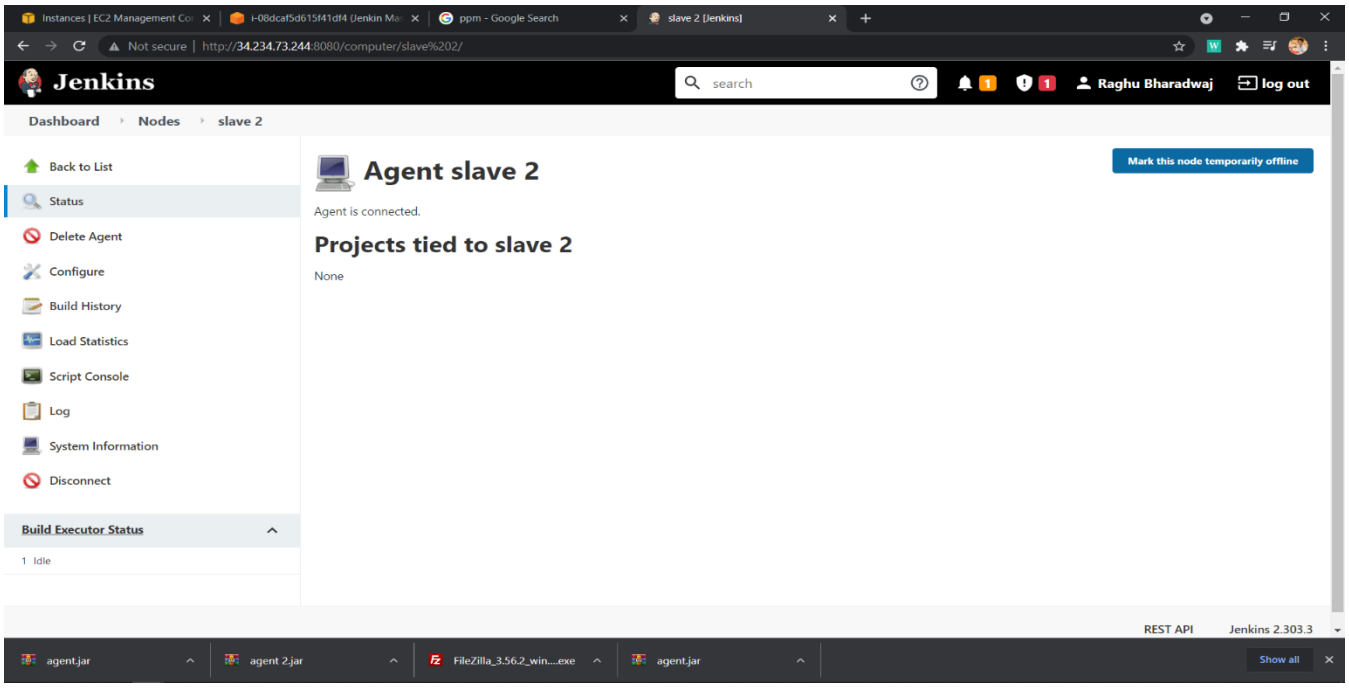
Step 4: Create 2 nodes (one for ec2 slave-1 instance and the other for ec2 slave-2 instance.)



Step 5: Download agent.jar from Slave-1 node and using Filezilla.

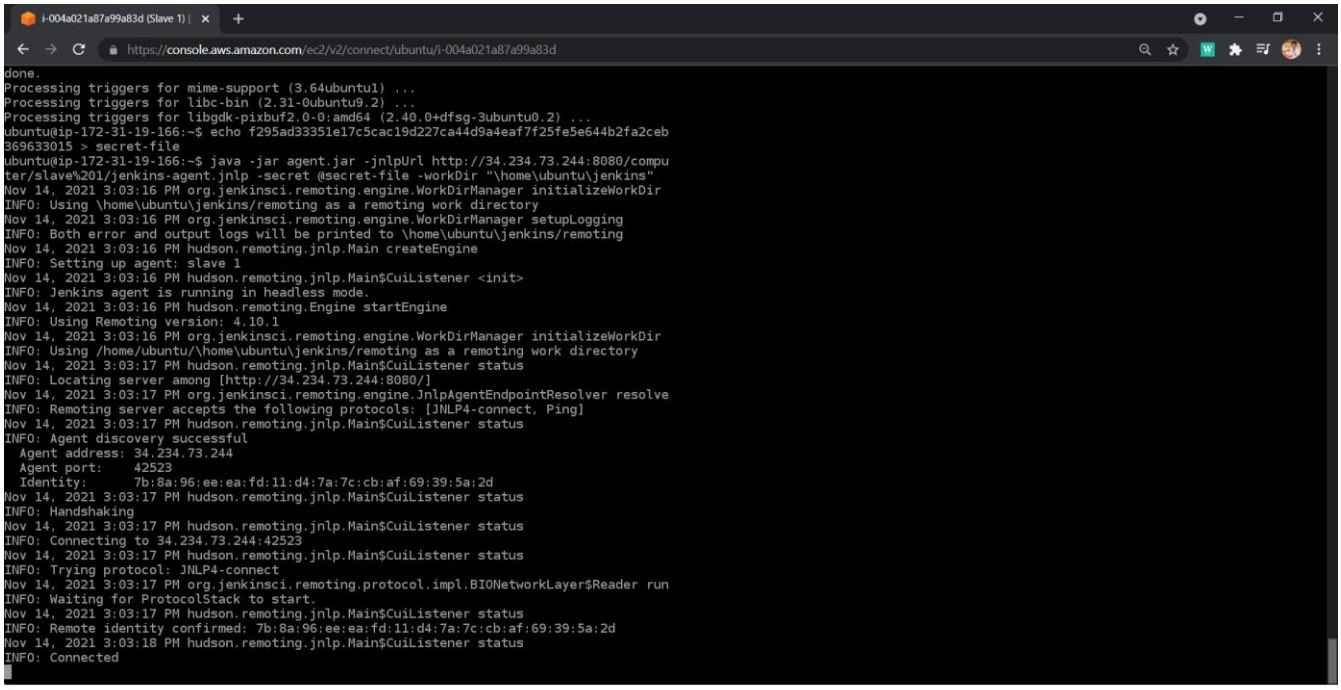


Step 6: Download agent.jar from Slave-2 node and using Filezilla.

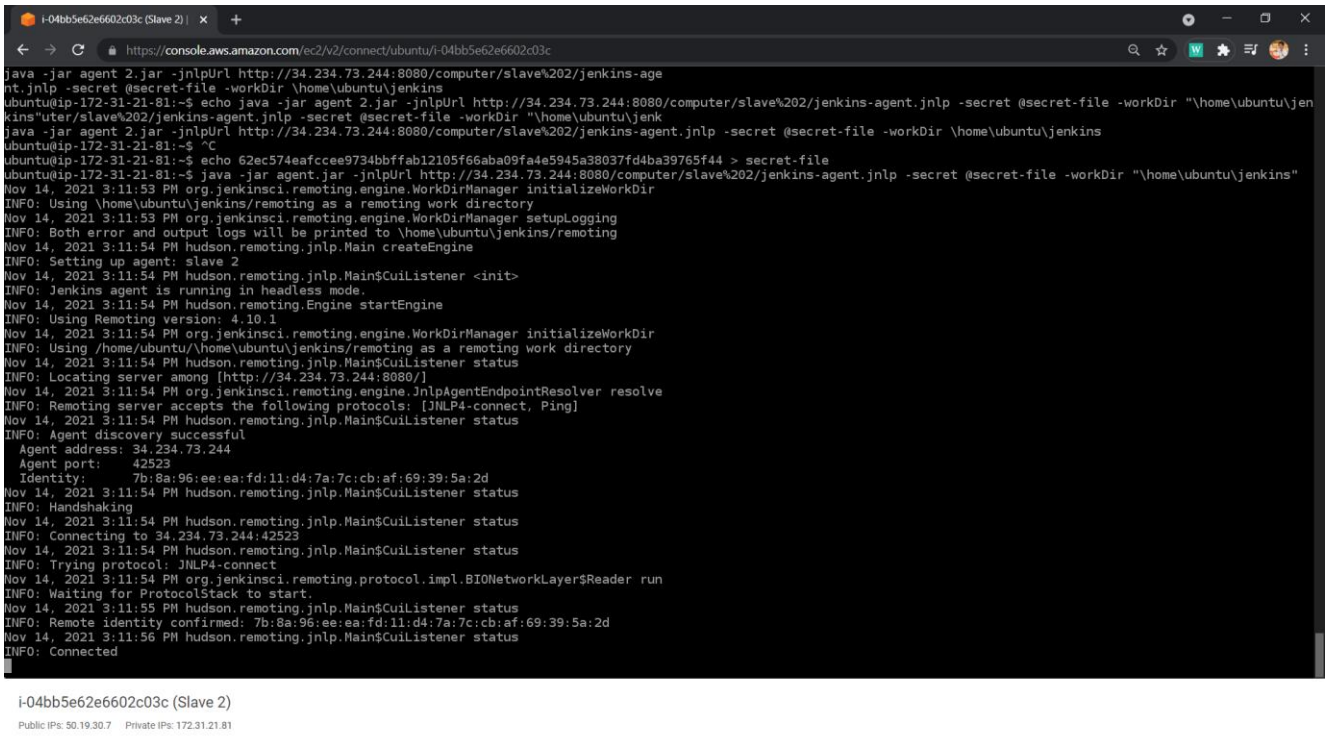


Step 7: Run the command on the ec2 instances so that we can connect the nodes to the Jenkins.

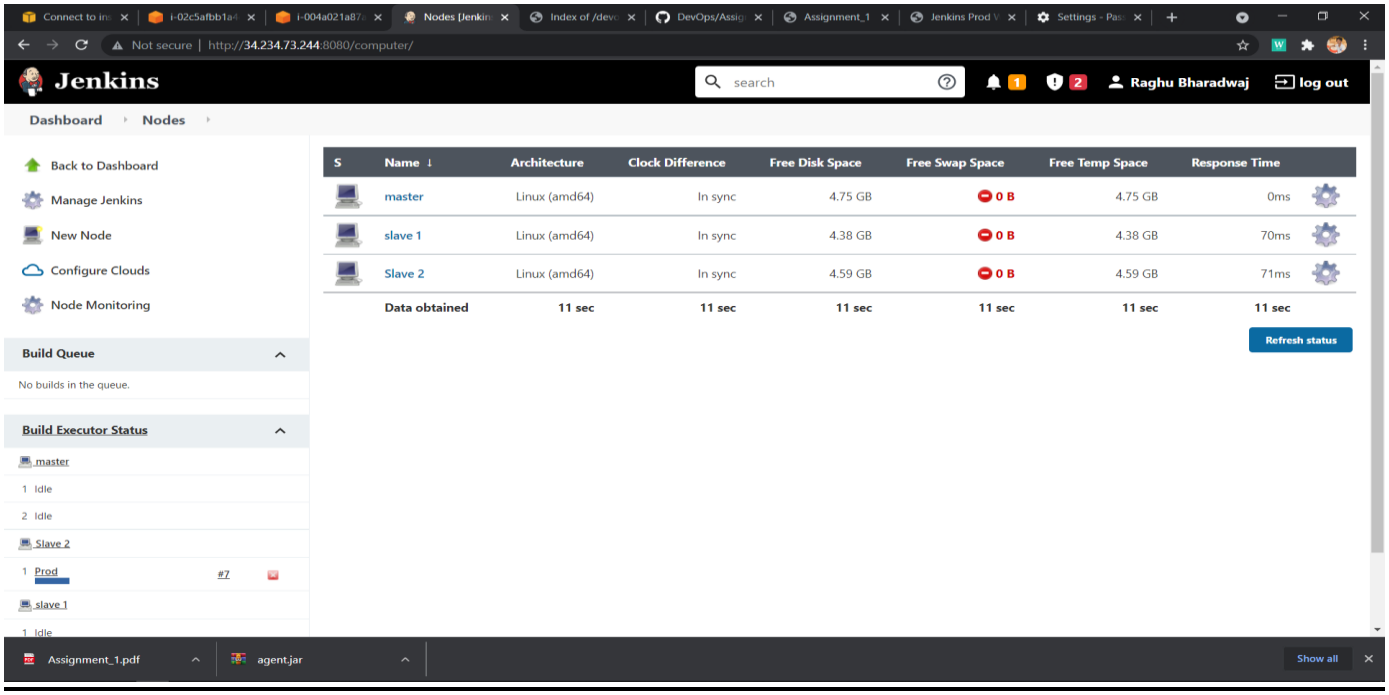
(Slave 1)



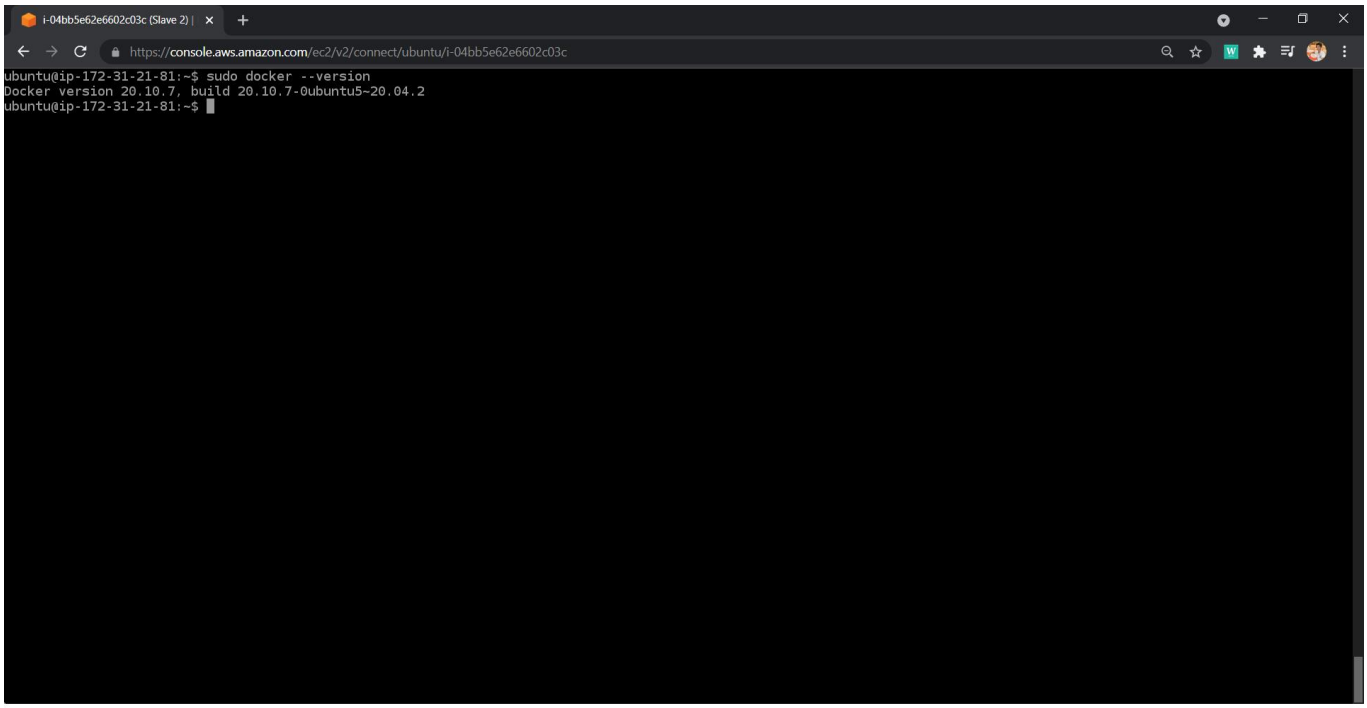
(Slave 2)



Step 8:

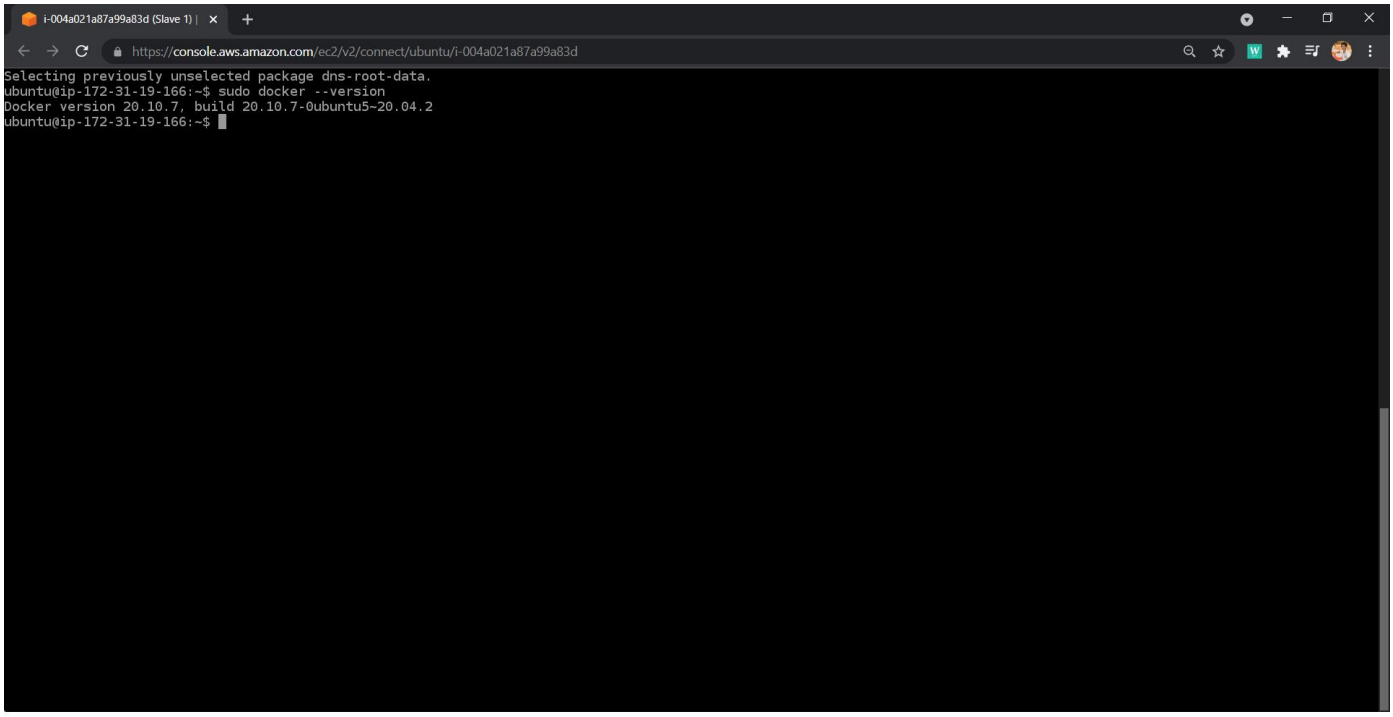

Jenkins
search
Raghu Bharadwaj
log out
Dashboard
Nodes
Back to Dashboard
Manage Jenkins
New Node
Configure Clouds
Node Monitoring
Build Queue
No builds in the queue.
Build Executor Status
master
1 Idle
2 Idle
Slave 2
1 Prod #7
slave 1
1 Idle
S
Name
Architecture
Clock Difference
Free Disk Space
Free Swap Space
Free Temp Space
Response Time
master
Linux (amd64)
In sync
4.75 GB
0 B
4.75 GB
0ms
slave 1
Linux (amd64)
In sync
4.38 GB
0 B
4.38 GB
70ms
Slave 2
Linux (amd64)
In sync
4.59 GB
0 B
4.59 GB
71ms
Data obtained
11 sec
11 sec
11 sec
11 sec
11 sec
11 sec
Refresh status
Assignment_1.pdf
agent.jar
Show all

Step 9: Install docker on Slave-1 and Slave-2 ec2 instances.



i-04bb5e62e6602c03c (Slave 2)

Public IPs: 50.19.30.7 Private IPs: 172.31.21.81

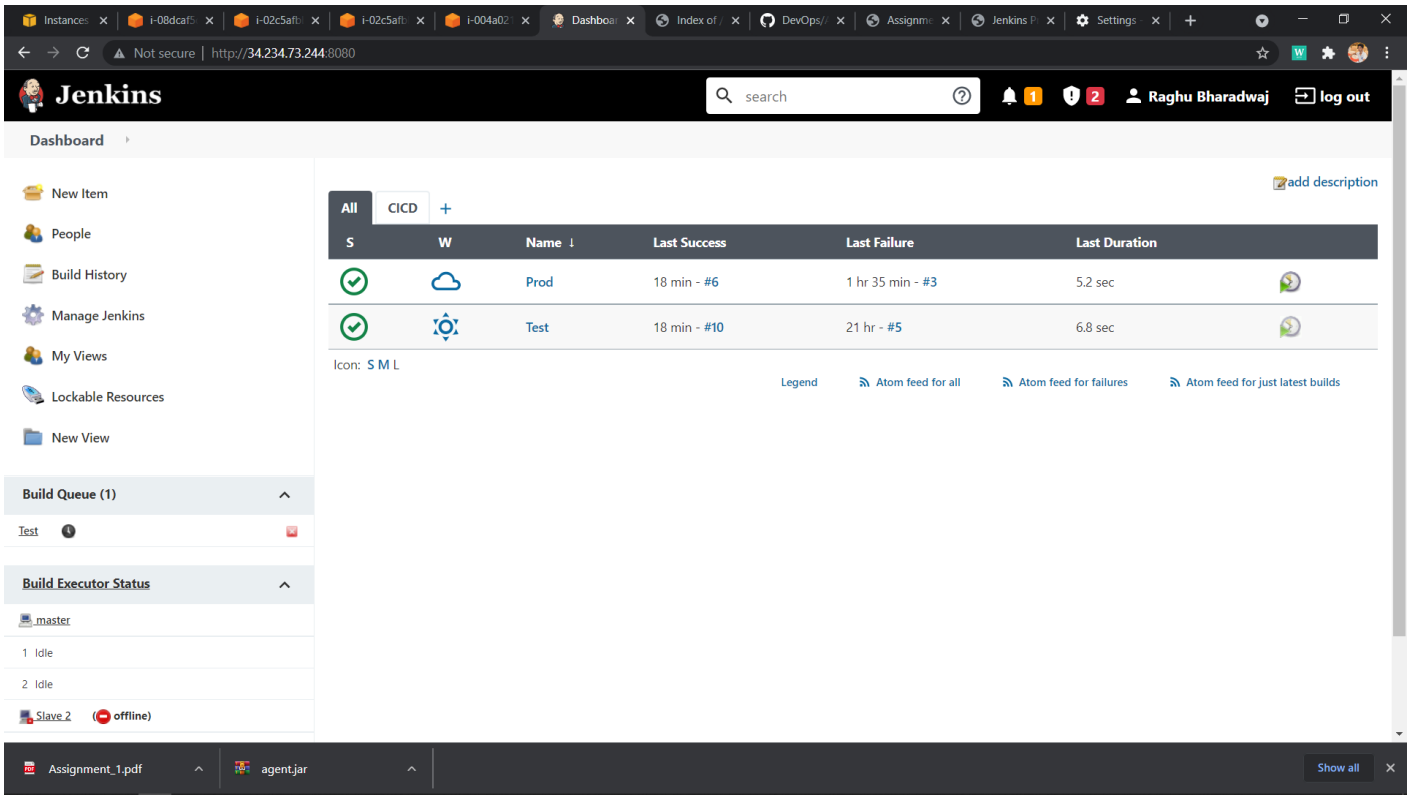


i-004a021a87a99a83d (Slave 1)

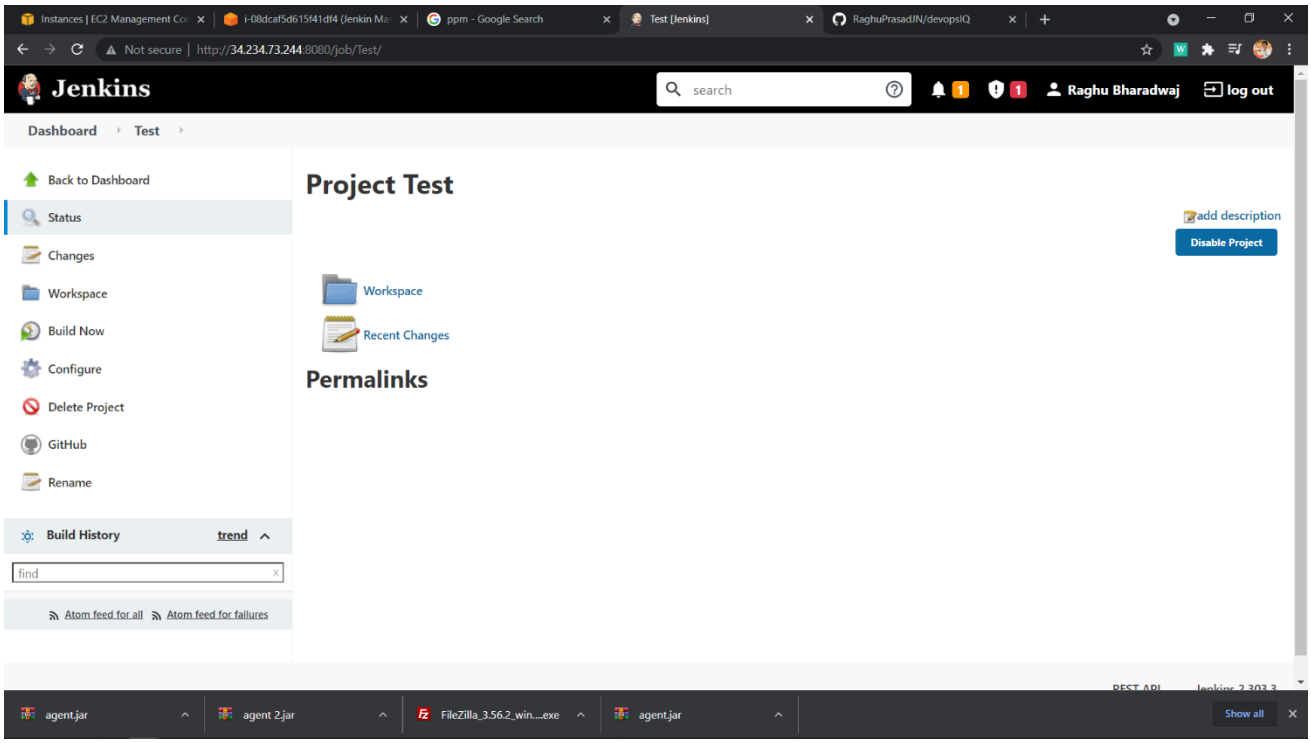
Public IPs: 3.91.6.51 Private IPs: 172.31.19.166

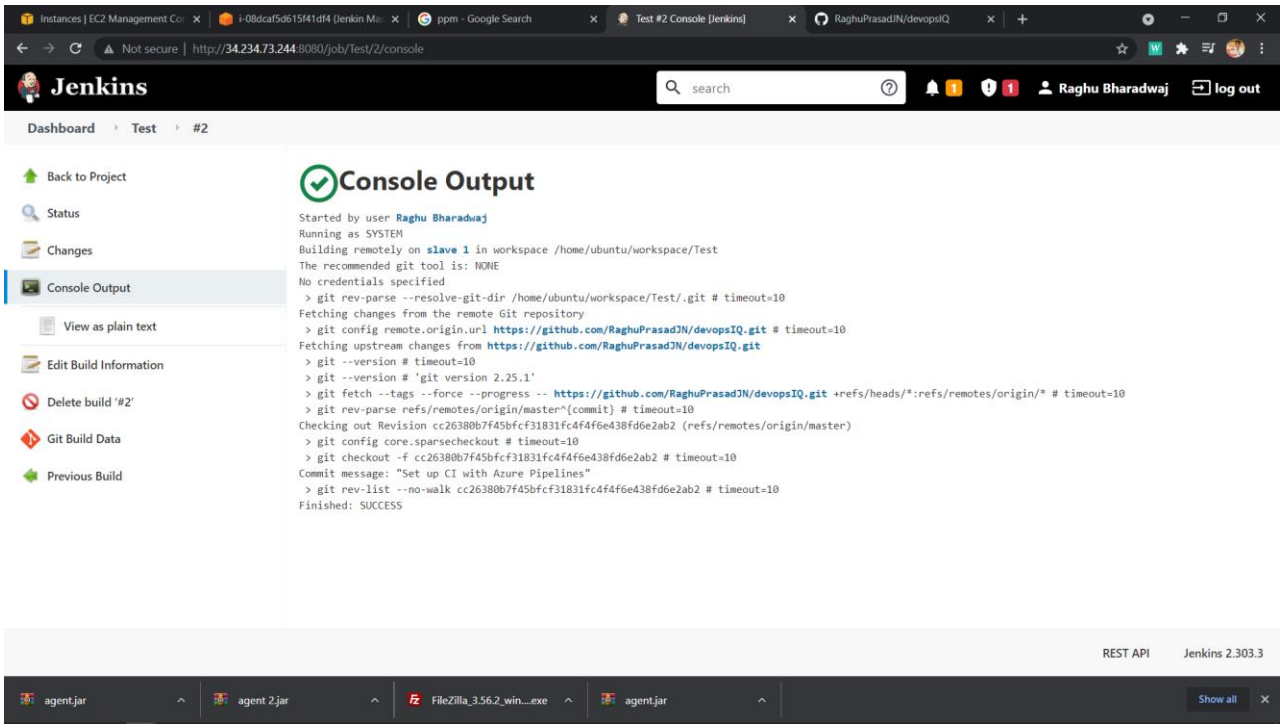
Step 10: Create two jobs (test for Slave-1 and prod for Slave-2)

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.

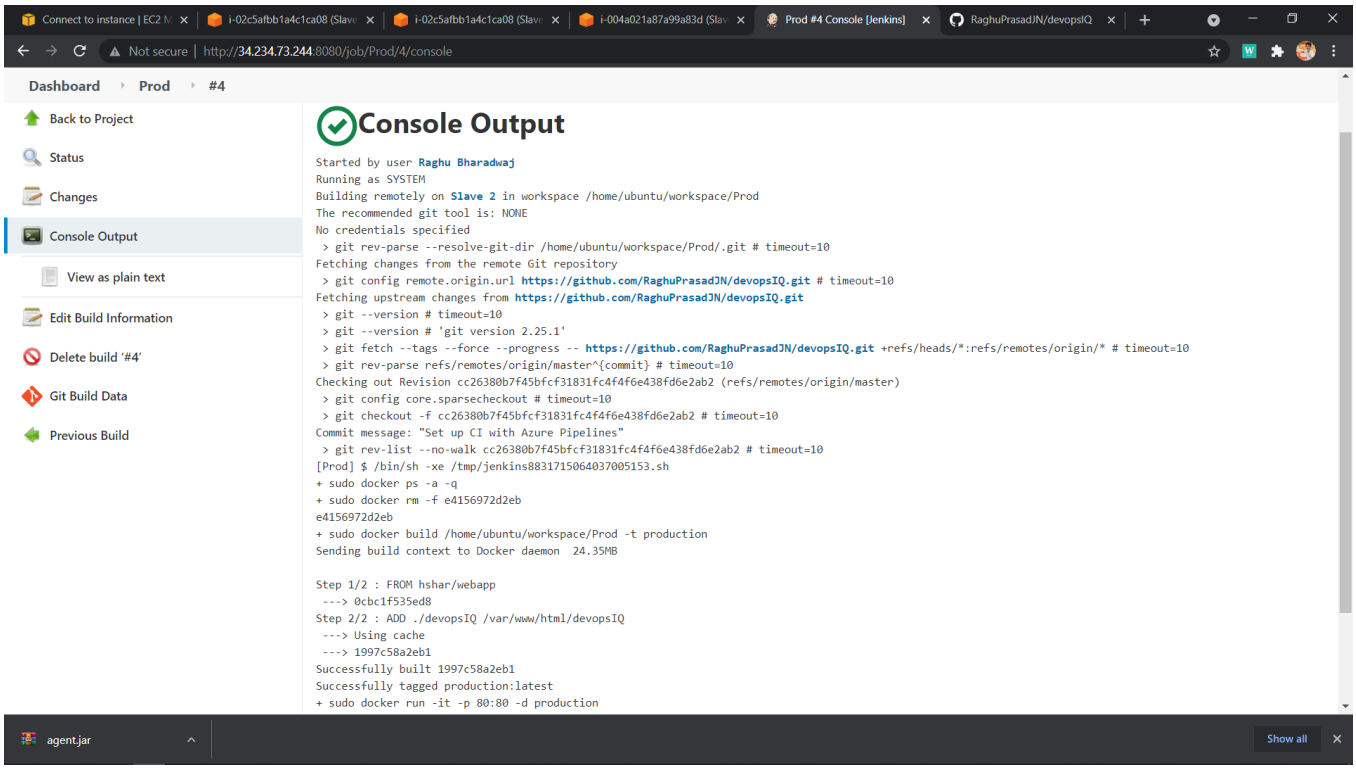


Step 11: Build Test

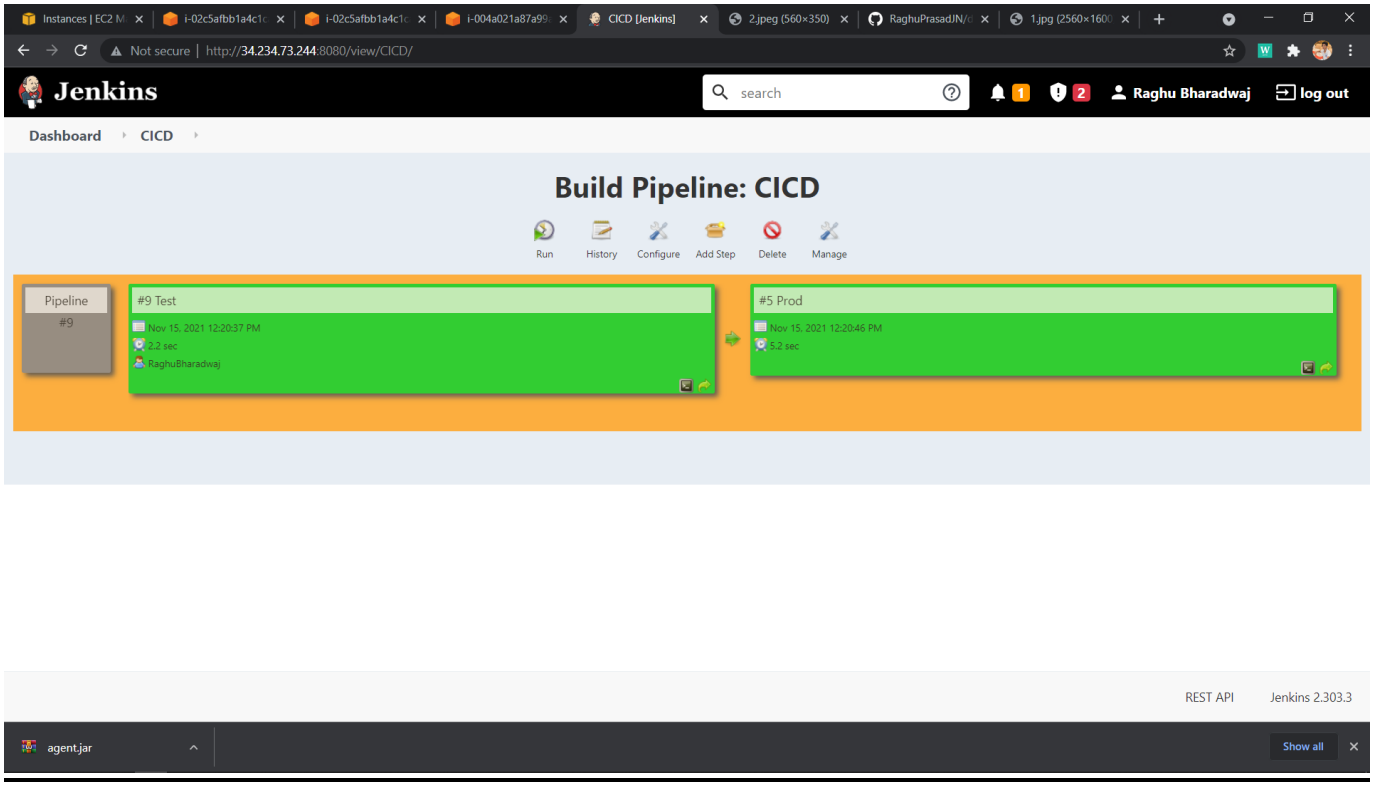




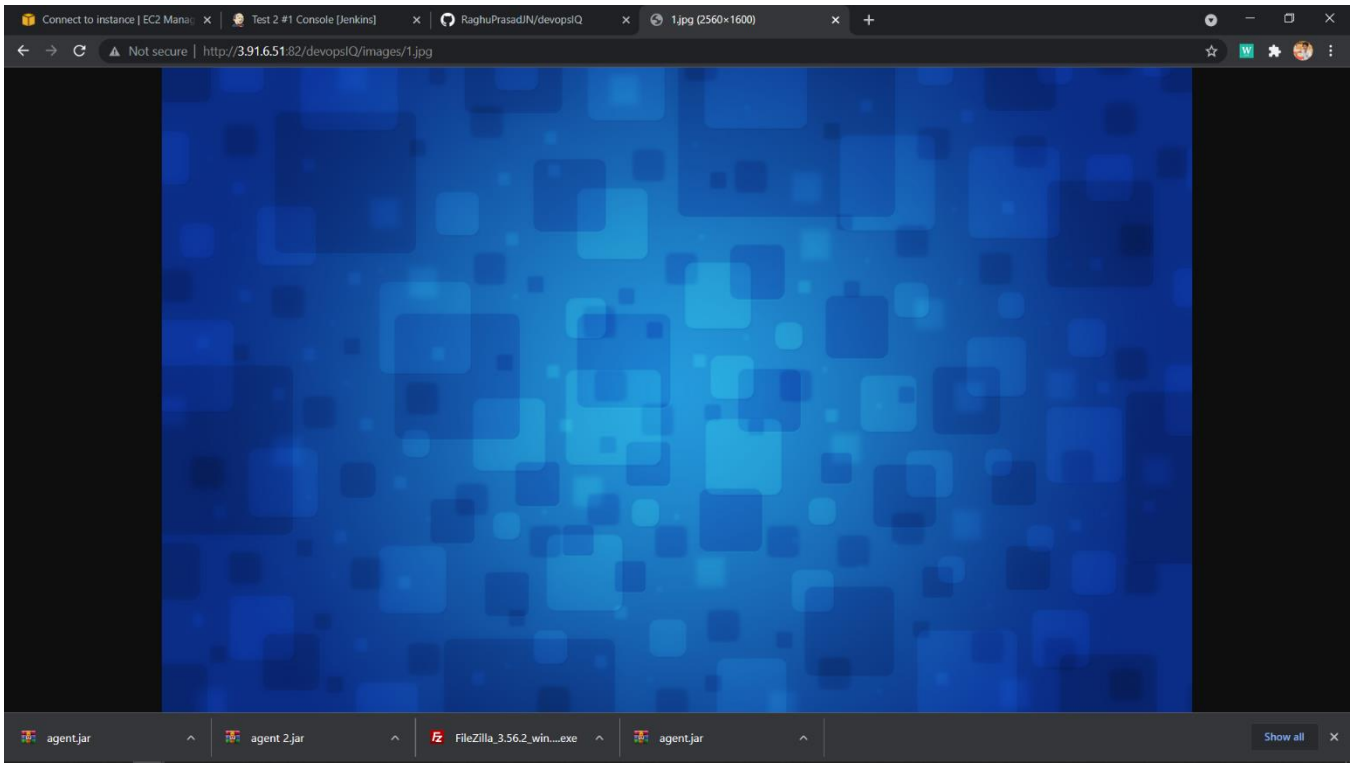
Step 12: Build Prod



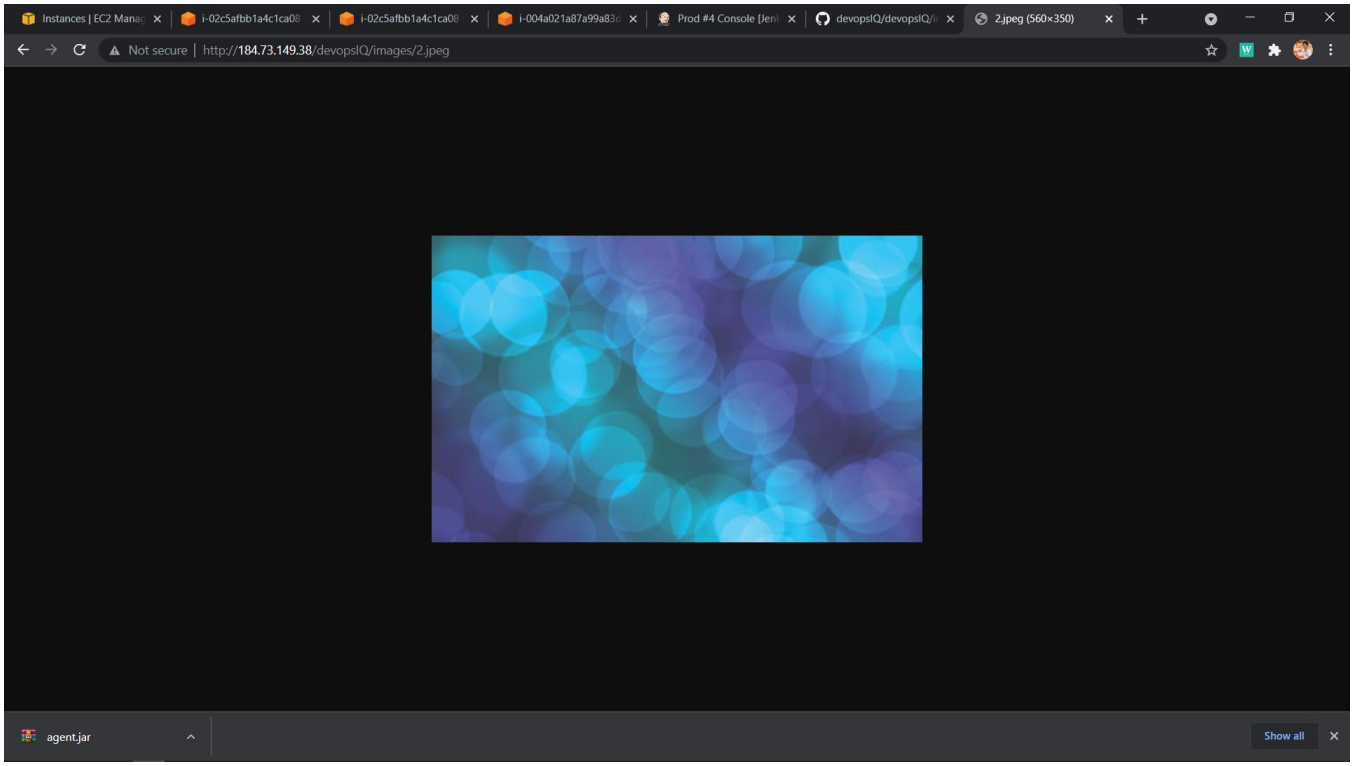
Step 13: Creating the pipeline.



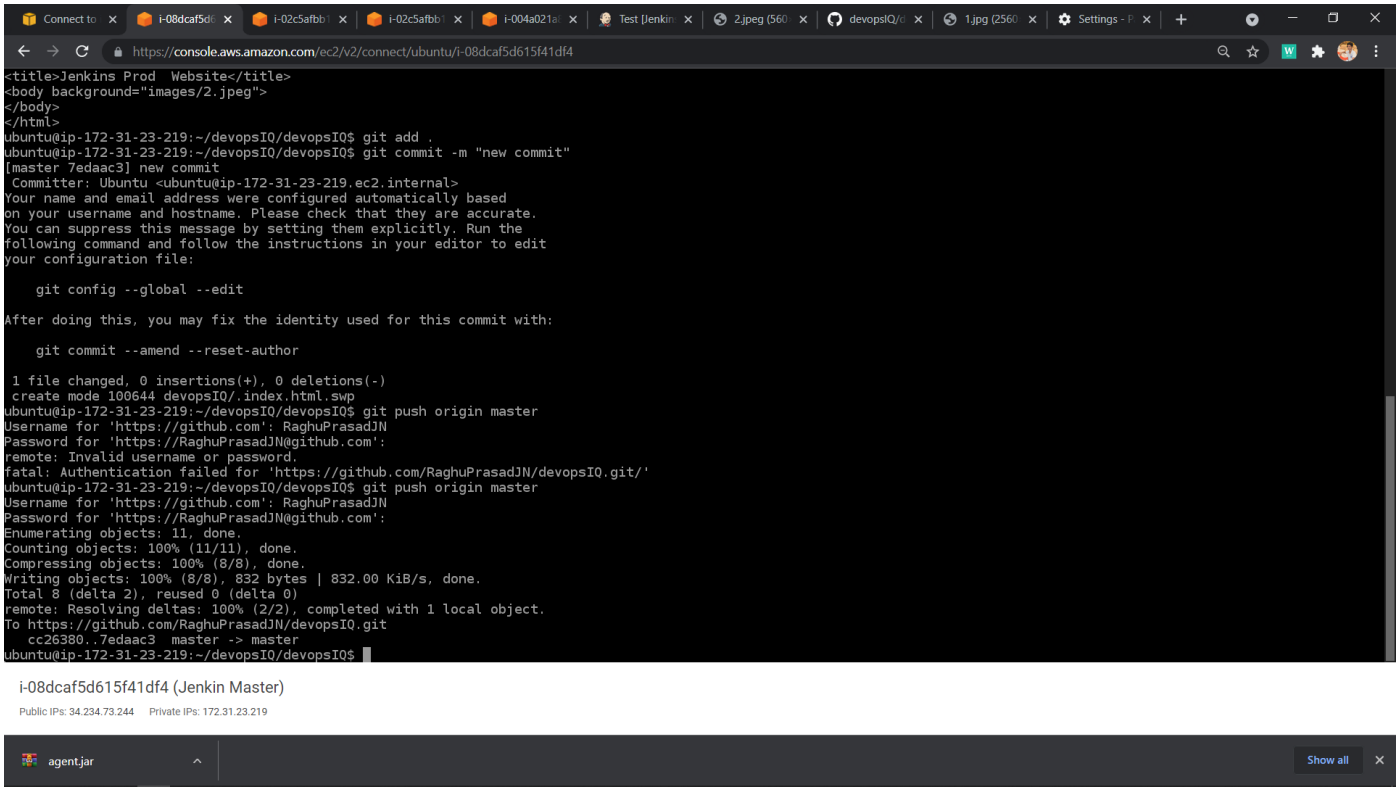
Step 14: we can see our website using slave-1 IP at port 82.



Slave 2 at port 80.



Step 15: Push to Origin master.



Step 16: Final output After pushing it into the master.