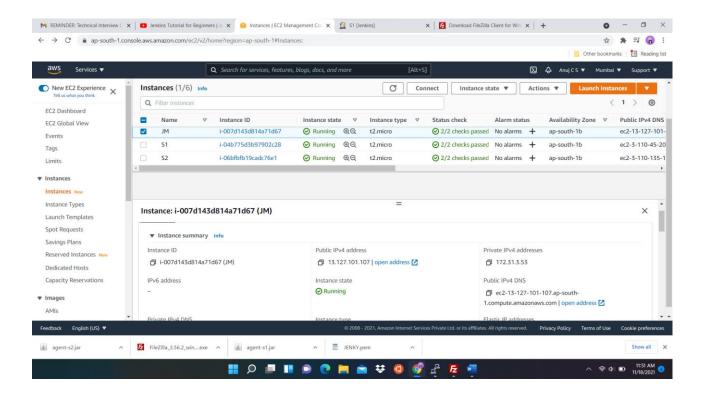
DeVops Jenkins Assignment 2

BY:

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Assignment-02: Jenkins Master Slave pipeline intellipaat.

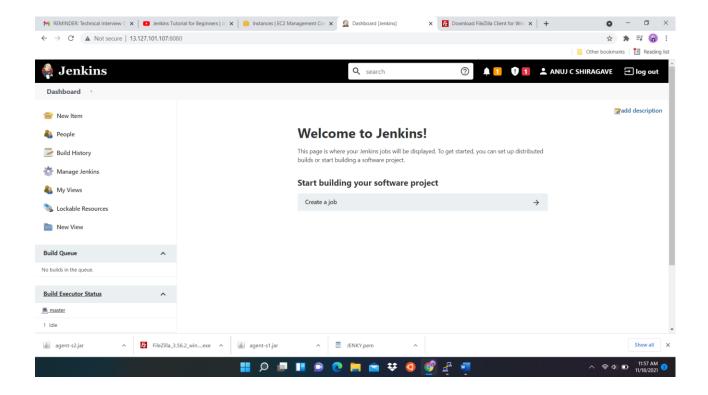
Step-1: Firstly, we are creating three aws ec2 instances and naming them as JM, S1, S2.



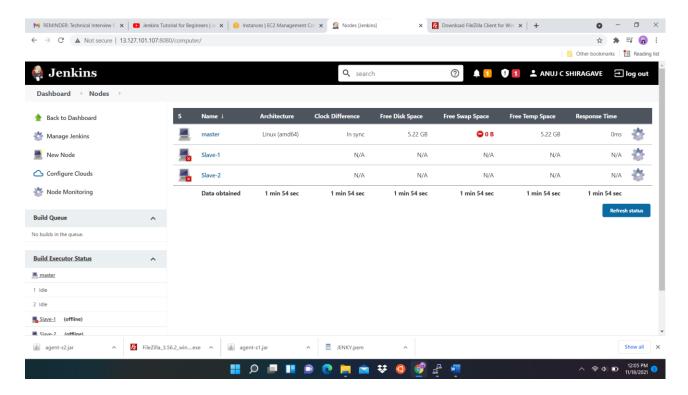
Step-2: Creating three elastic IP addresses and associating these elastic IP addresses to the ec2 instances.

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

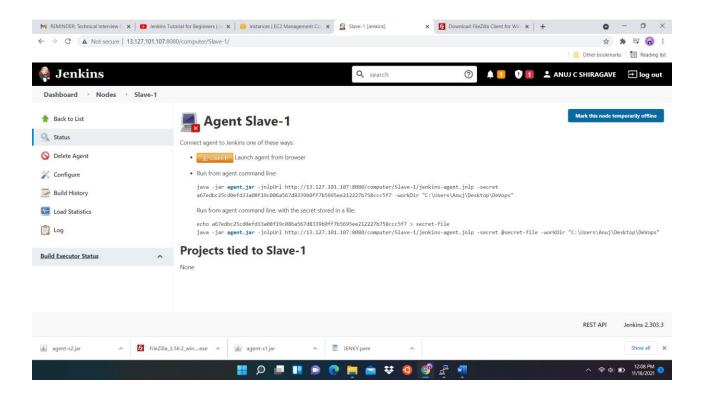


Step-4: Creating two nodes. (one for ec2 slave-1 instance and theother for ec2 slave-2 instance.)

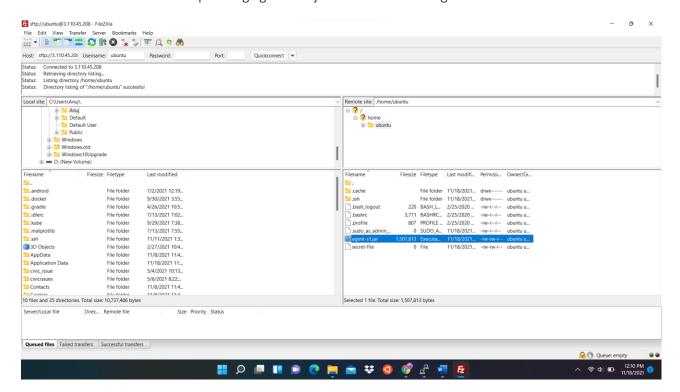


Step-5:

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

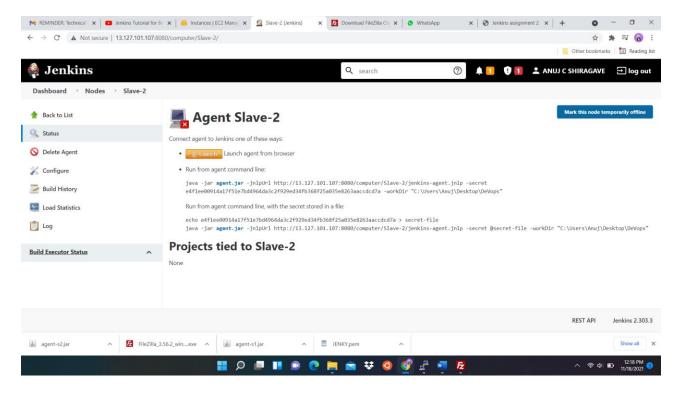


Uploading agent file .jar file on slave 1 using Filezilla

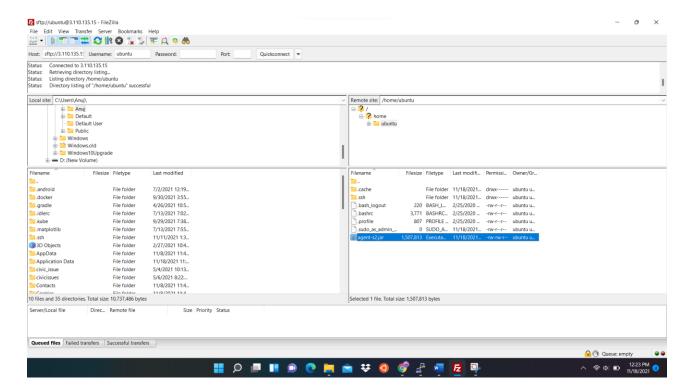


Step-5:

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



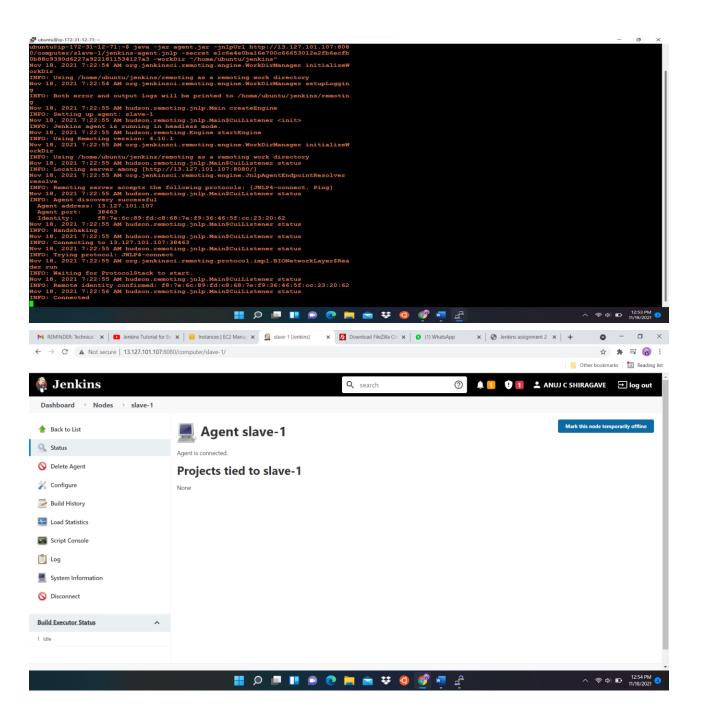
Uploading agent file .jar file on slave 2 using Filezilla



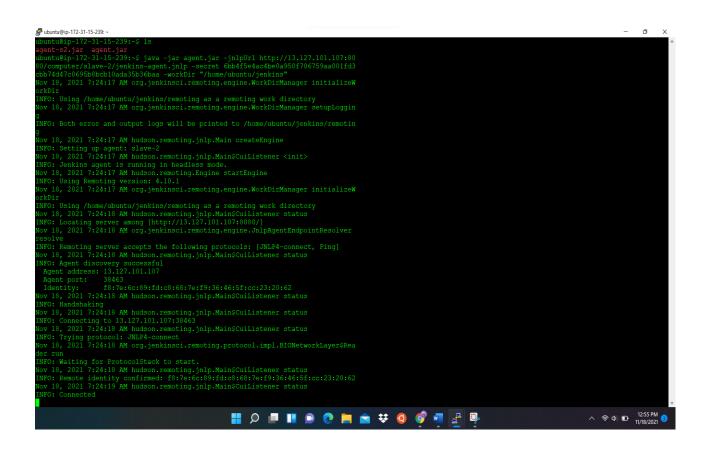
Step-6:

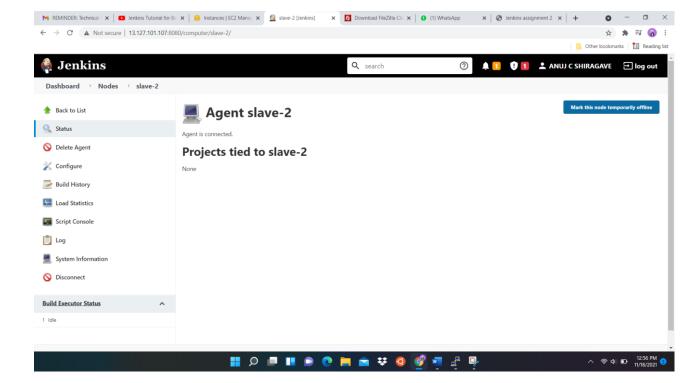
Run the command on the ec2 instances so that we can connect the nodes to the Jenkins.

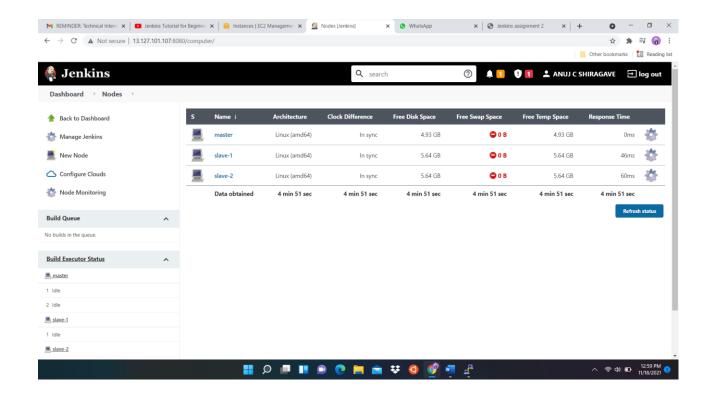
SLAVE-1 CONNECTED



SLAVE-2 CONNECTED.







Step-7:

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

```
Pubmtu@ip-172-31-15-232 --
reparing to unpack .../3-containerd_1.5.5-Oubuntu3-20.04.1_amd64.deb ...
npacking containerd (1.5.5-Oubuntu3-20.04.1) ...
electing previously unselected package dns-root-data.
reparing to unpack .../4-dns-root-data 2019052802_all.deb ...
npacking dns-root-data (2019052802) ...
electing previously unselected package libidnl1:amd64.
reparing to unpack .../5-libidnl1_1.33-2.2ubuntu2 amd64.deb ...
npacking libidnl1:amd64 (1.33-2.2ubuntu2) ...
electing previously unselected package dnsmasq-base
reparing to unpack .../6-dnsmasq-base 2.80-1.lubuntu1.4_amd64.deb ...
npacking dnsmasq-base (2.80-1.lubuntu1.4) ...
electing previously unselected package docker.io.
reparing to unpack .../7-docker.io_20.10.7-Oubuntu5-20.04.2_amd64.deb ...
npacking docker.io (20.10.7-Oubuntu5-20.04.2) ...
electing previously unselected package ubuntu-fan.
reparing to unpack .../8-ubuntu5-20.04.1) ...
etting up runc (1.0.1-Oubuntu5-20.04.1) ...
etting up func (1.0.1-Oubuntu5-20.04.1) ...
etting up func (1.0.1-Oubuntu2-20.04.1) ...
etting up bridge-utils (1.6-2ubuntu1) ...
etting up bridge-utils (1.6-2ubuntu1) ...
etting up containerd (1.5.5-Oubuntu3-20.04.1) ...
reated symlink /etc/systemd/system/multi-user.target.wants/containerd.service ...
/lib/systemd/system/containerd.service.
etting up docker.io (20.10.7-Oubuntu5-20.04.2) ...
dding group 'docker' (GID 119) ...
one.
          eated symlink /etc/systemd/system/multi-user.target.wants/docker.service - /li
 reated symlink /etc/systemd/system/multi-user.target.wants/docker.service - /li
/systemd/system/docker.service.
reated symlink /etc/systemd/system/sockets.target.wants/docker.socket - /lib/sy
temd/system/docker.socket.
string up dnsmasq-base (2.80-1.1ubuntul.4) ...
string up ubuntu-fan (0.12.13) ...
reated symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service -
/lib/systemd/system/ubuntu-fan.service.
rocessing triggers for systemd (245.4-dubuntu3.13) ...
rocessing triggers for man-db (2.9.1-1) ...
rocessing triggers for dbus (1.12.16-2ubuntu2.1) ...
rocessing triggers for libc-bin (2.31-Oubuntu9.2) ...
buntu8ip-172-31-15-239:-$ docker --version
ooker version 20.10.7, build 20.10.7-Oubuntu5-20.04.2
buntu8ip-172-31-15-239:-$
                                                                                                                                                                                                                                                                                                                🚃 👭 👂 📭 💵 🗩 🤨 🙀 📲 🔡
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    outpack .../3-containerd 1.5.5-0ubuntu3-20.04.1_amd64.deb ...
outpack .../3-containerd 1.5.5-0ubuntu3-20.04.1_amd64.deb ...
outpack .../4-dns-root-data_2019052802_all.deb ...
s-root-data (2019052802) ...
reviously unselected package libidn11:amd64.
outpack .../5-libidn11_1.33-2.2ubuntu2_amd64.deb ...
bidn11:amd64 (1.33-2.2ubuntu2) ...
reviously unselected package dnsmasq-base.
outpack .../6-dnsmasq-base 2.80-1.1ubuntu1.4_amd64.deb ...
smasq-base (2.80-1.1ubuntu1.4) ...
reviously unselected package docker.io.
unpack .../7-docker.io_20.10.7-0ubuntu5-20.04.2_amd64.deb ...
reviously unselected package ubuntu-fan.
outpack .../8-ubuntu-fan 0.12.13_all.deb ...
outpack .../8-ubuntu-fan 0.12.13_all.deb ...
outpack .../8-ubuntu-fan 0.12.13_all.deb ...
untu-fan (0.12.13) ...
untu-fan (0.10.1-0ubuntu2-20.04.1) ...
unts-root-data (2019052802) ...
                                 d group docker* (GID 119) ...

dd symlink /etc/systemd/system/multi-user.target.wants/docker.service --

rystemd/system/docker.service.

d symlink /etc/systemd/system/sockets.target.wants/docker.socket -- /lib

mmd/system/docker.socket.

gg up dnsmasp-base (2.80-1.1ubuntul.4) ...

gg up ubuntu-fan (0.12.13) ...

d symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service.

ising triggers for systemd (245.4-4ubuntu3.13) ...

ssing triggers for man-db (2.9.1-1) ...

ssing triggers for dbus (1.12.16-2ubuntu2.1) ...

ssing triggers for libc-bin (2.31-0ubuntu9.2) ...

gip-172-31-12-71:-$

gers docker --version

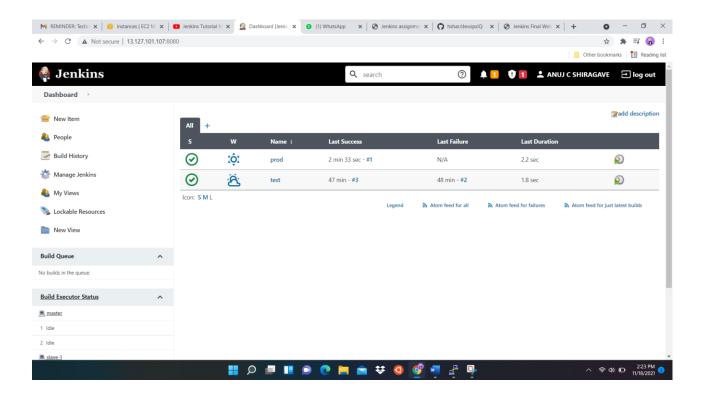
r version 20.10.7, build 20.10.7-0ubuntu5-20.04.2

gep-172-31-12-71:-$
                                                                                                                                                                                                                                                                                                                                                                🔡 🔎 🔎 💵 🗩 🤨 🦸 🐙 🚰
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```

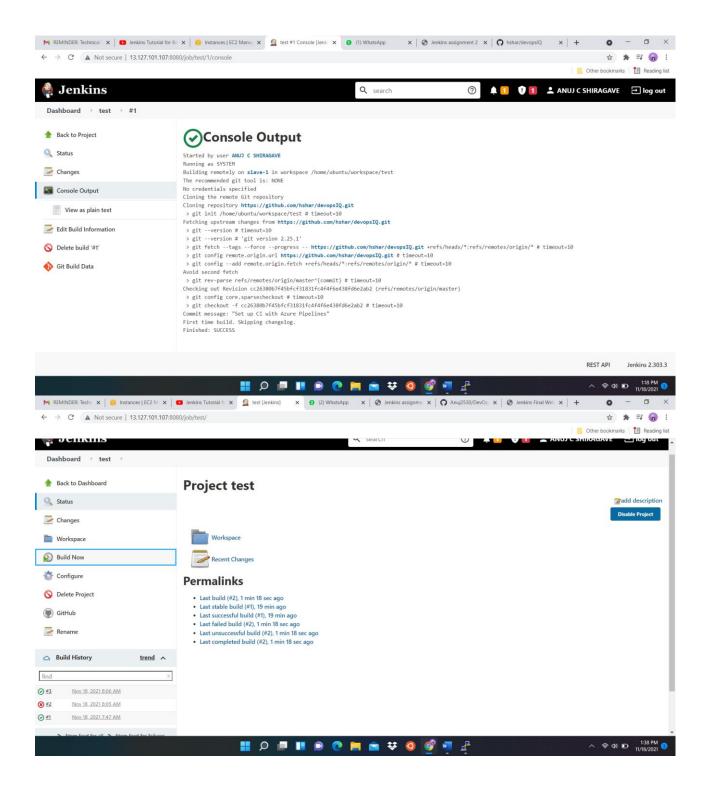
Step 8:

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

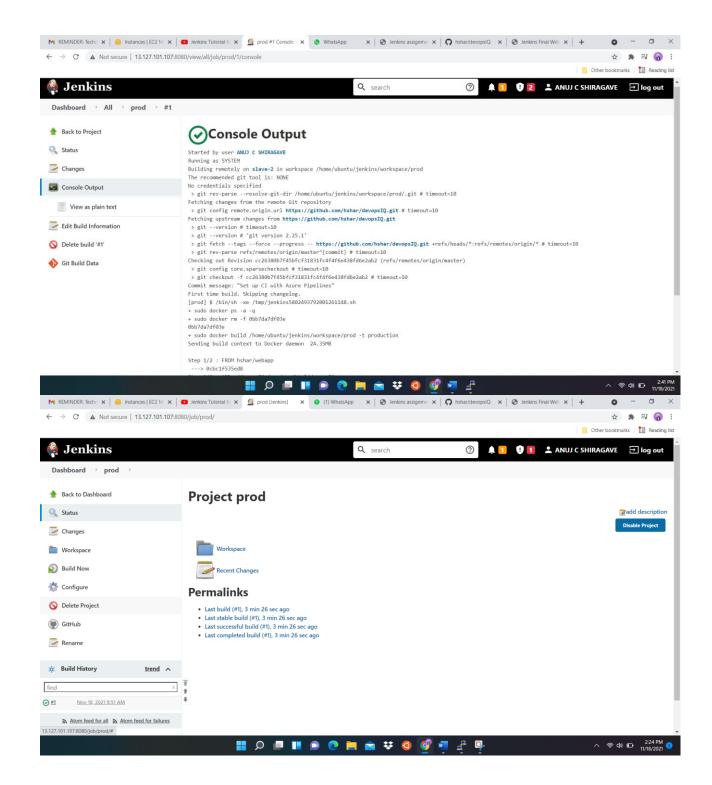
In configure, we are setting source code management as git and passing our Github repo link, in build we are selecting execute shell and writing some commands to run.



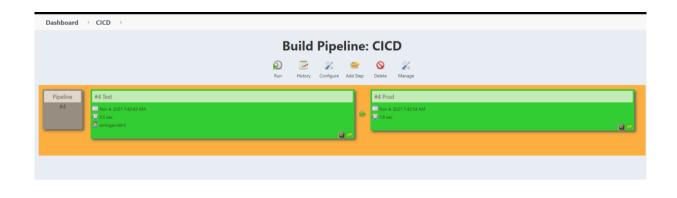
Step 9: Build Test job.



Step 10: Build prod job.

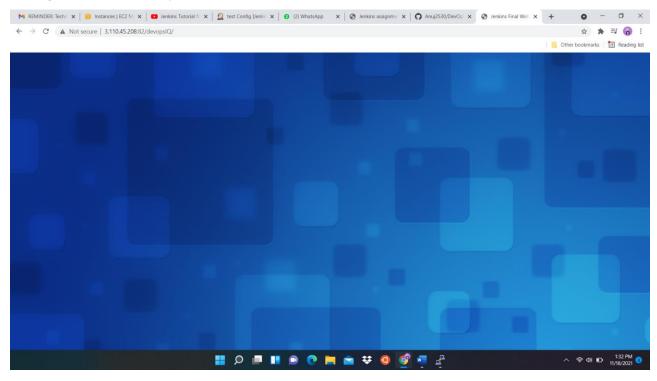


Step-11: Creating the pipeline

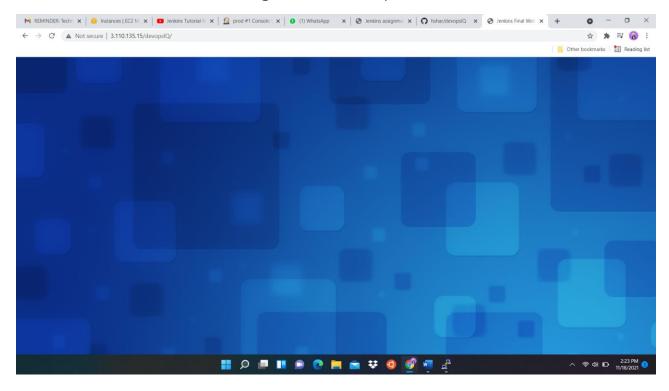




Step-12: After successfully building our project we can see our website using slave-1 IP at port 82.



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



THANK YOU