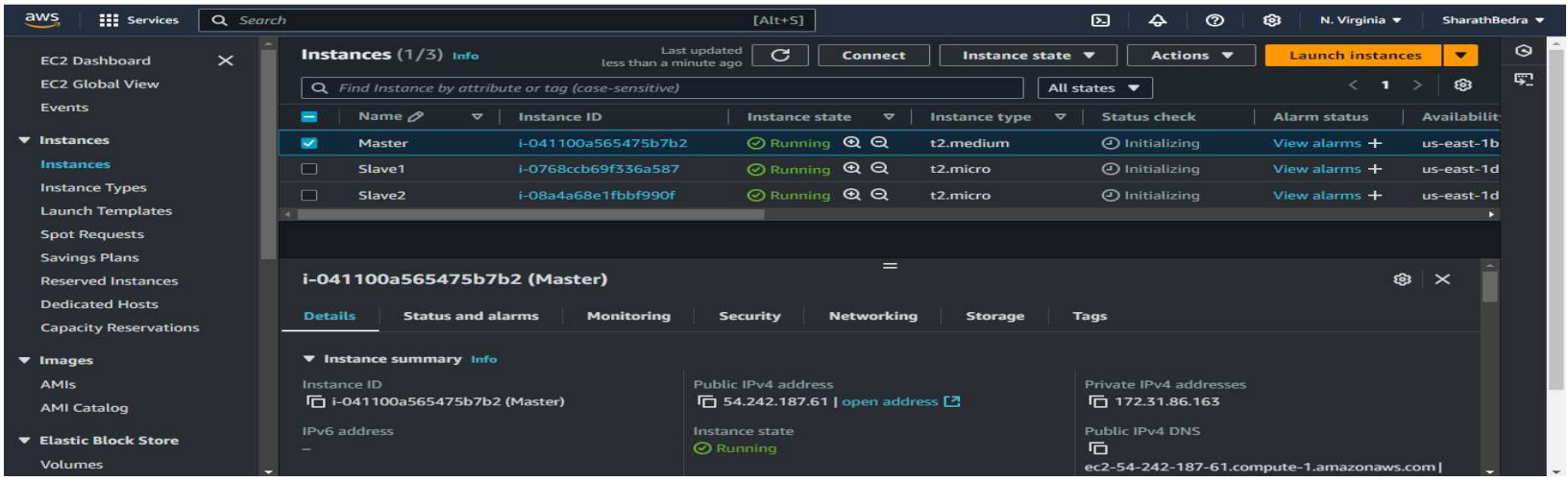
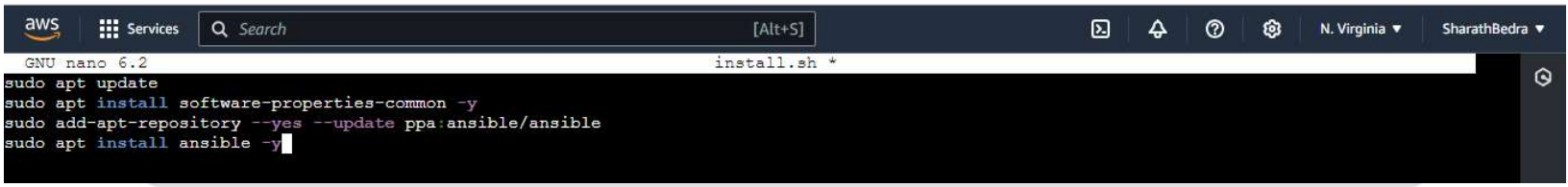
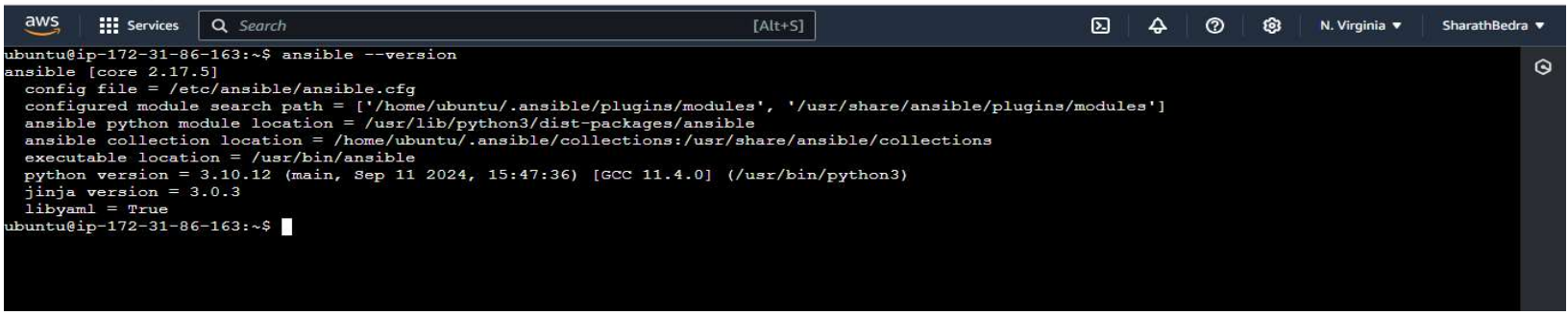
DevOps Capstone Project 1;

Create the Three Instances Named as Master, Slave1 & Slave2

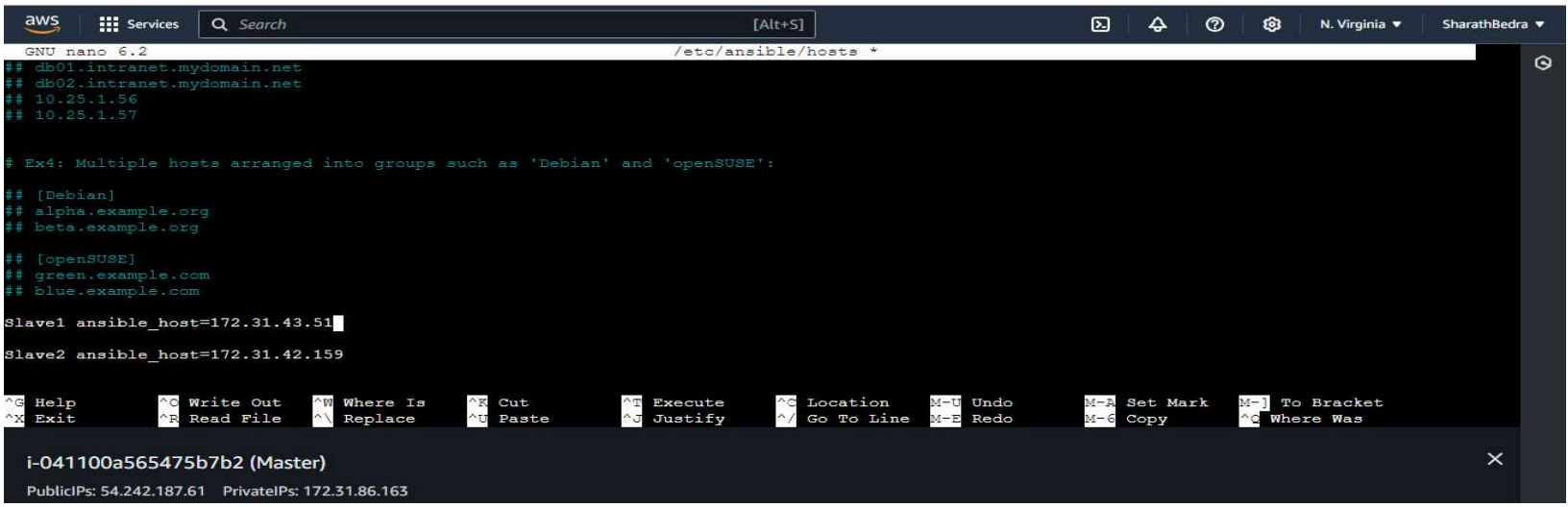


Creating install.sh file to install Ansible;



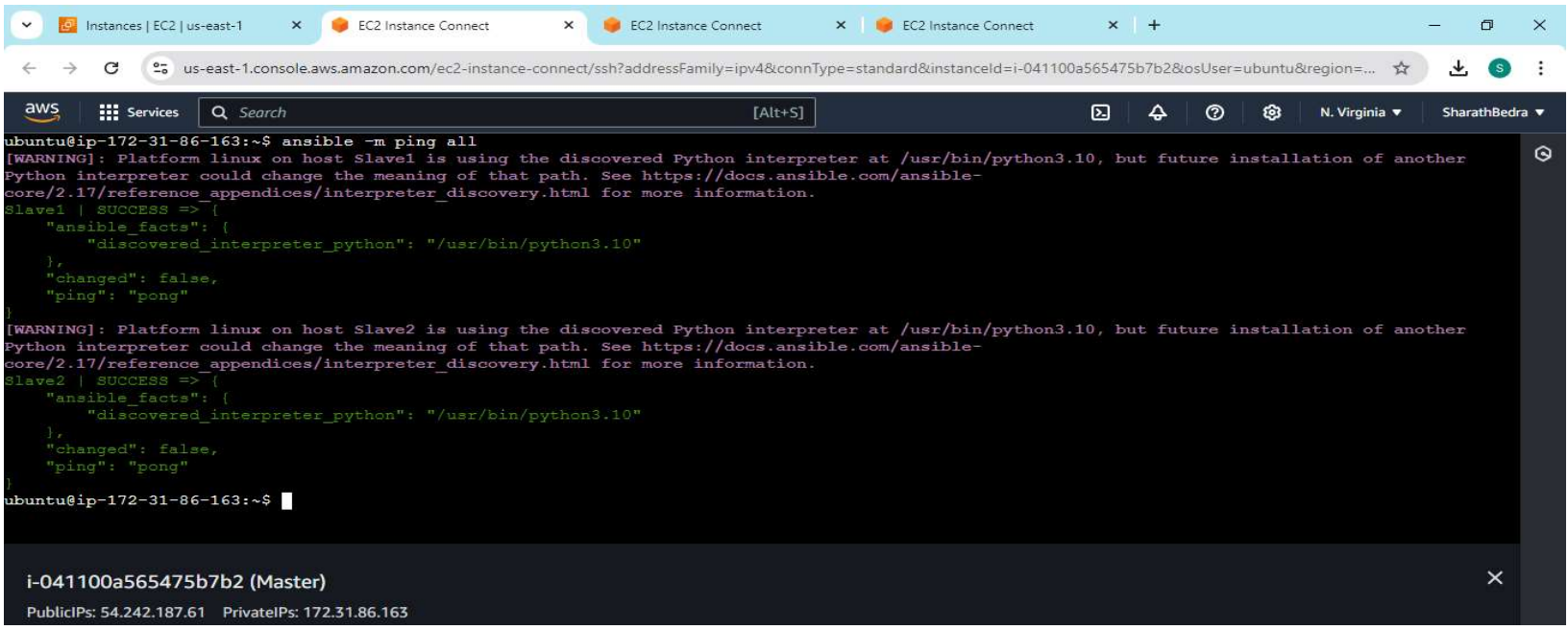


Put the “Slave IPs” into the “Ansible Host File”

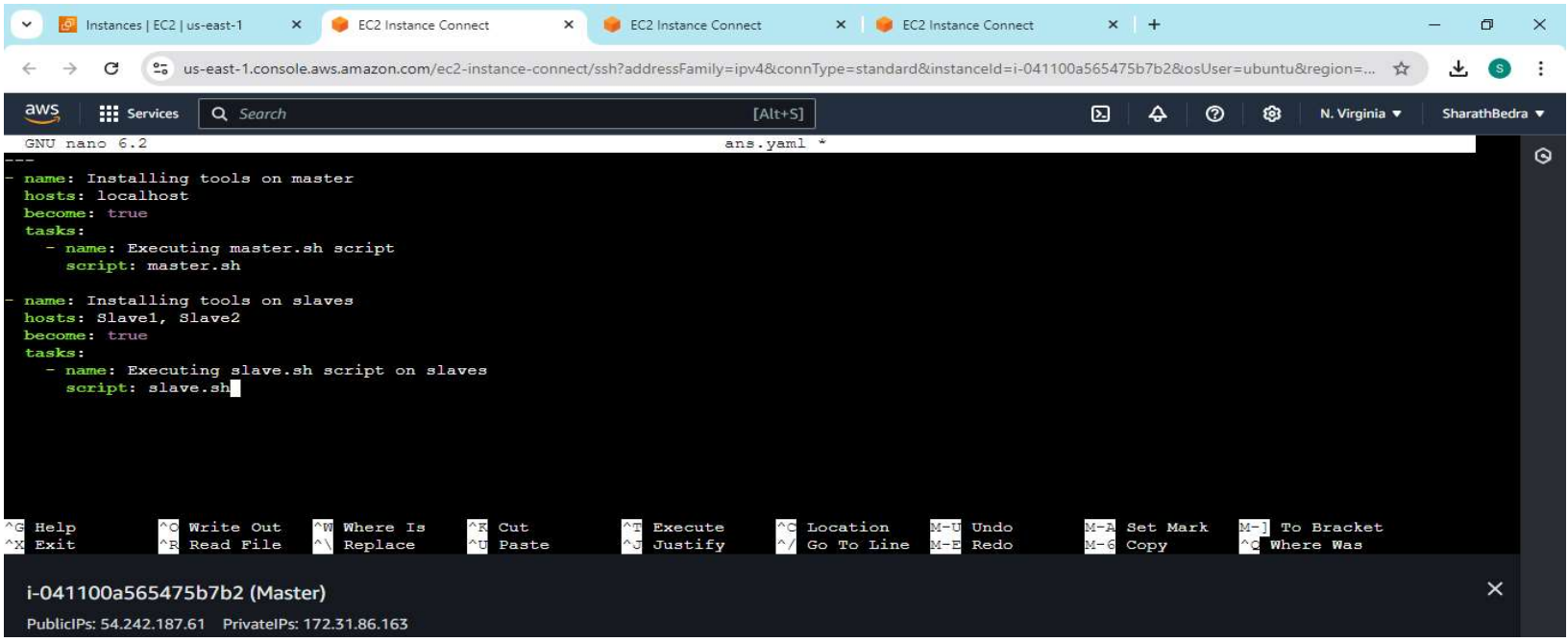


Pasting the keys of “Master” instance to “Slave1” & “Slave2”(ssh-keygen);

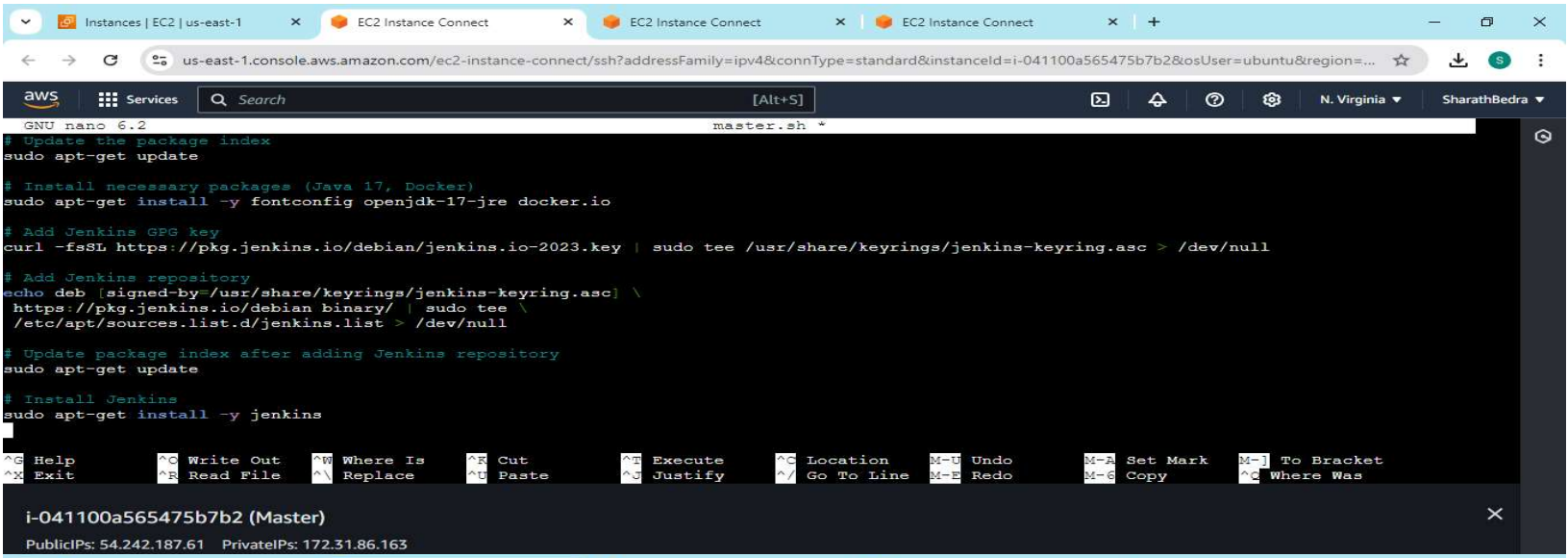
Ping the machines;

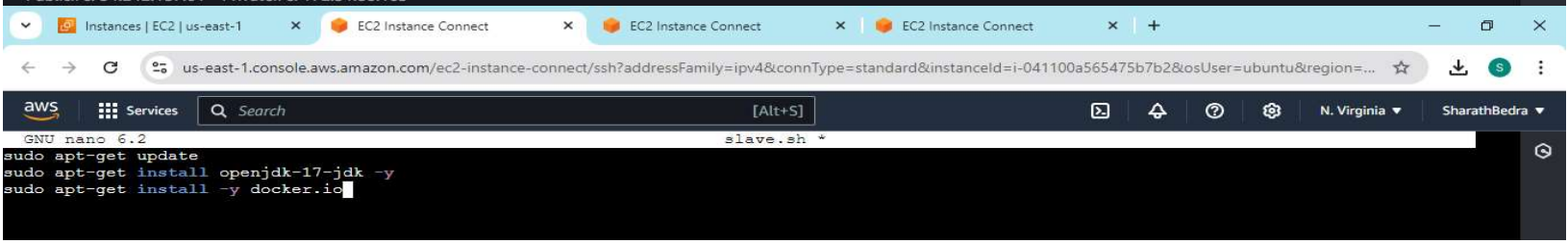


Creating an “ans.yaml” file to execute the “master.sh” & “slave.sh” through “Ansible”;

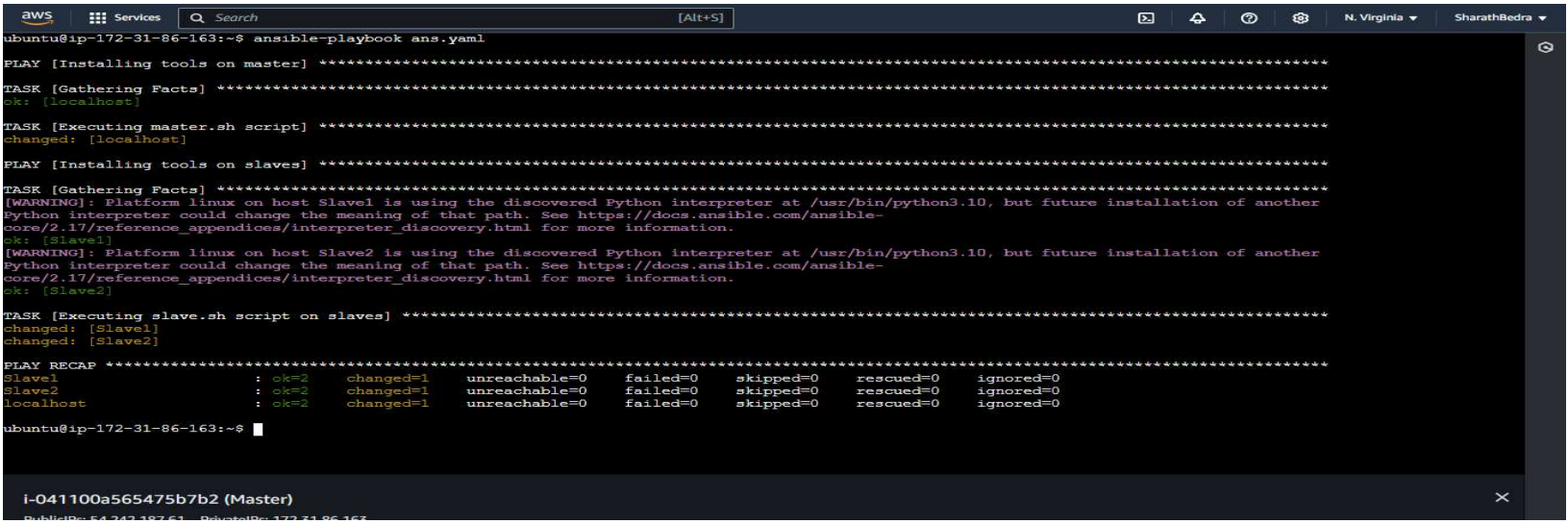


Creating master.sh and slave.sh;

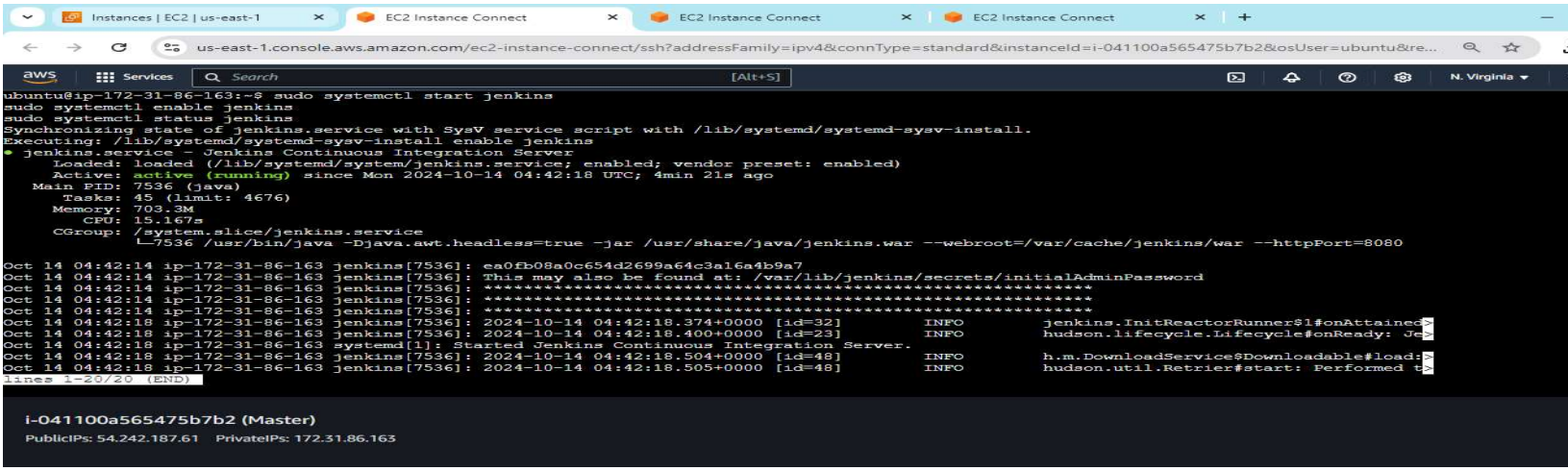


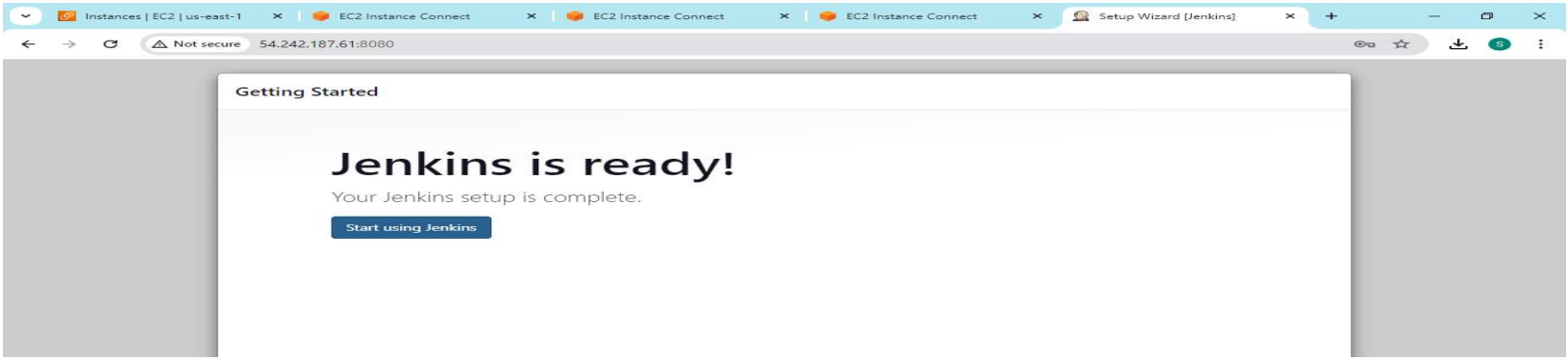


Executing the “master.sh” & “slave.sh” through “ans.yaml” file using the command ansible-playbook ans.yaml.

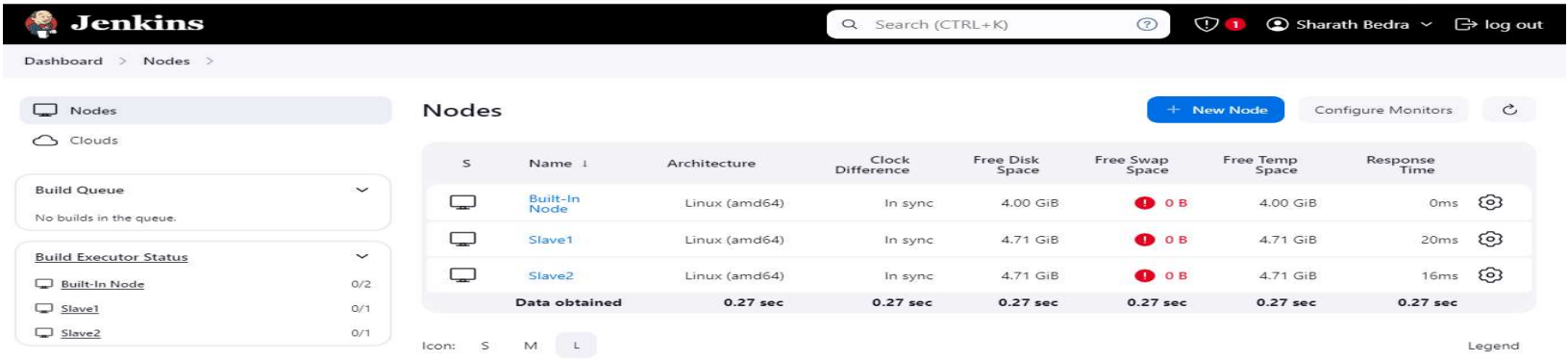


Jenkins is Up and Running;

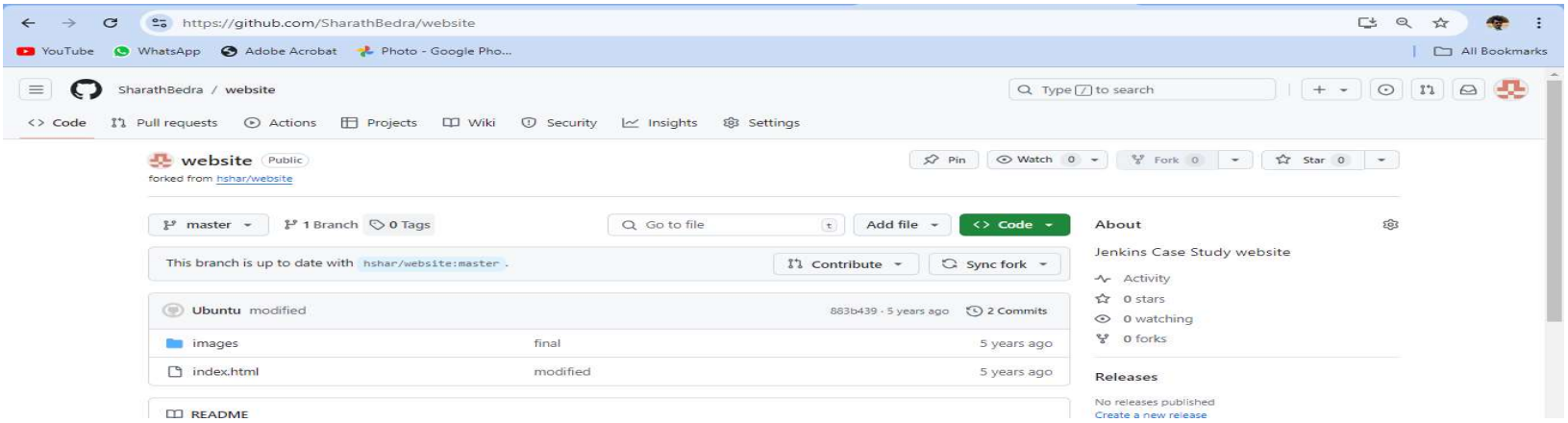




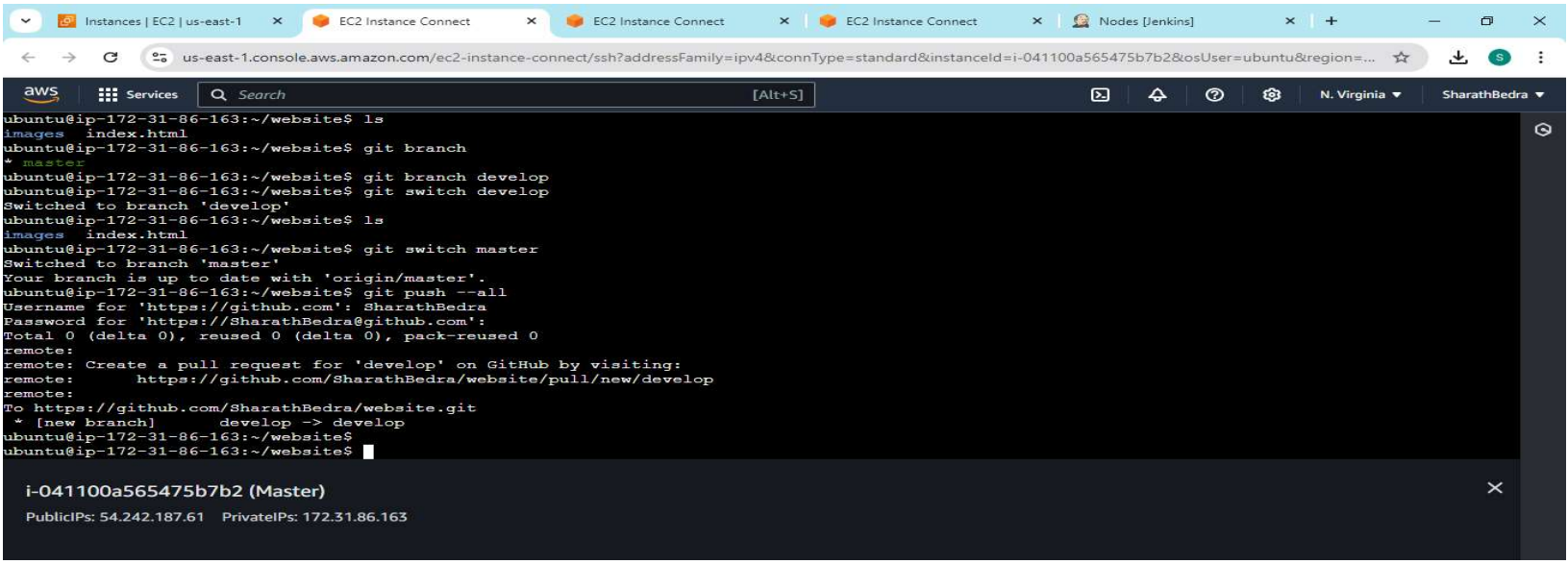
Created 2 nodes as Slave1 and Slave2;

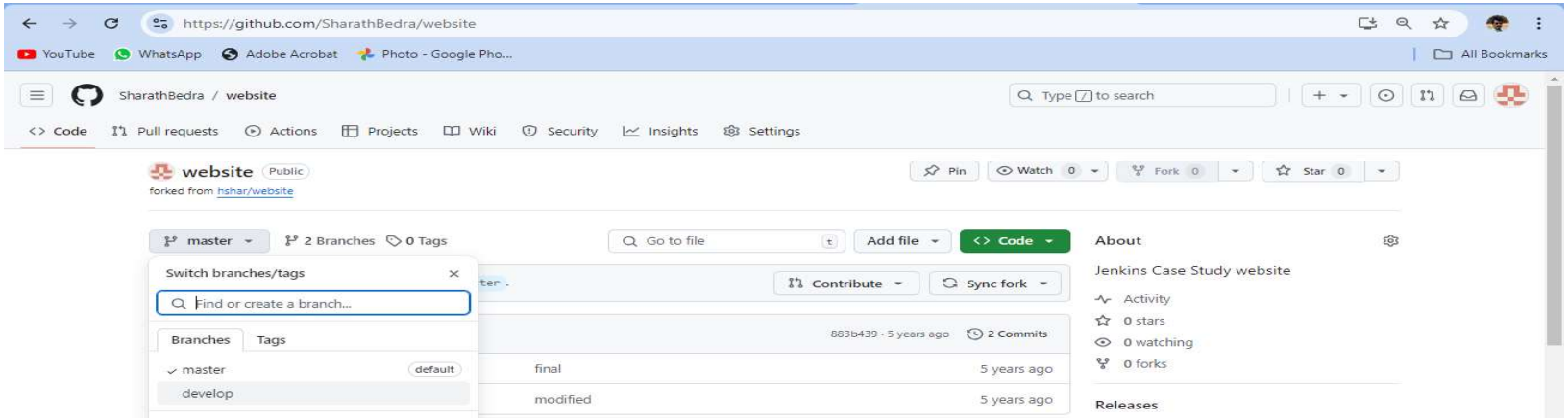


We shall fork the given Git-Hub link;

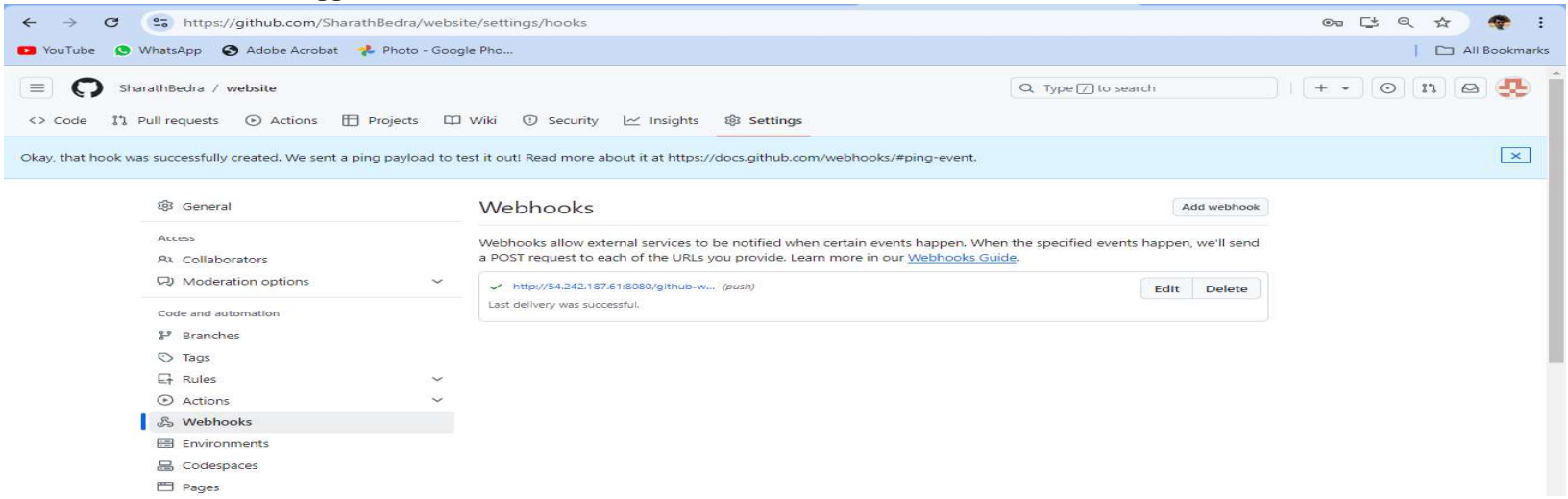


Verifying in the master node also we shall create a develop branch;

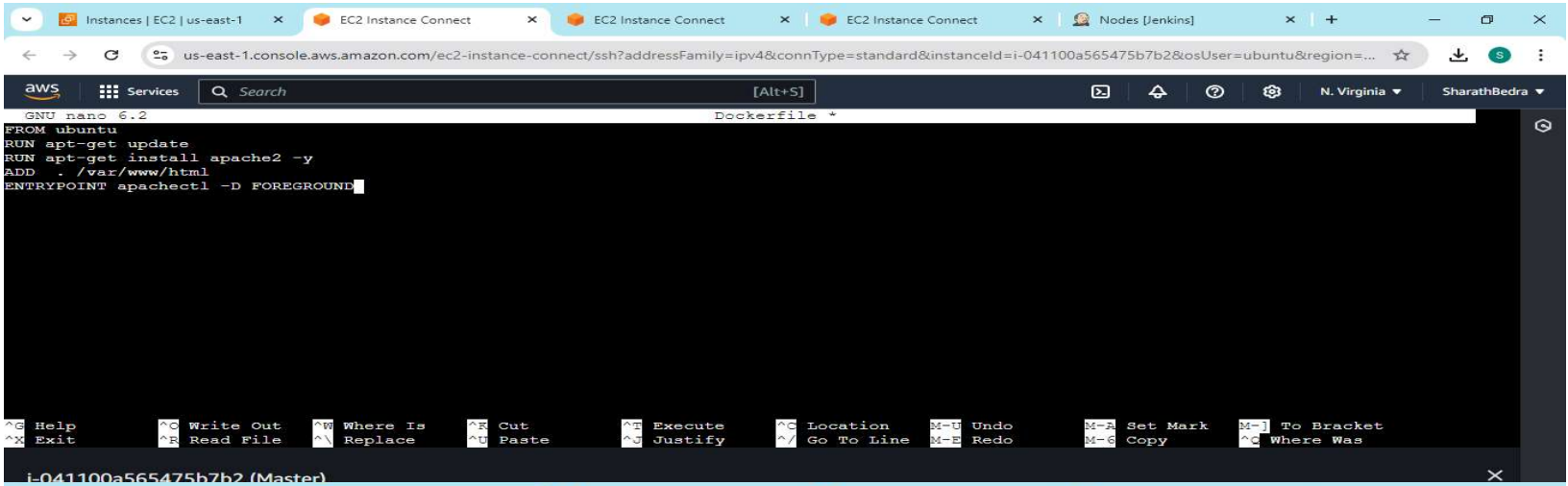


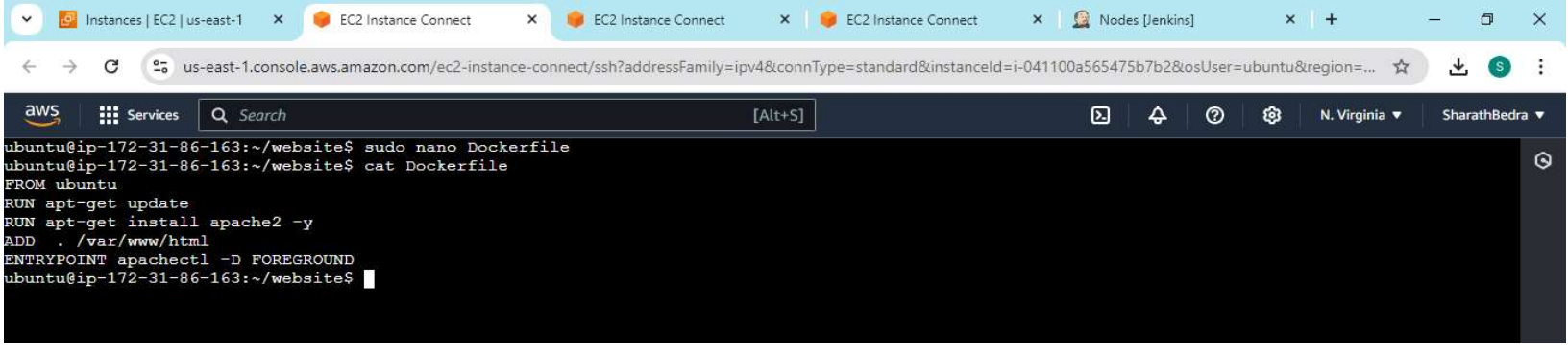


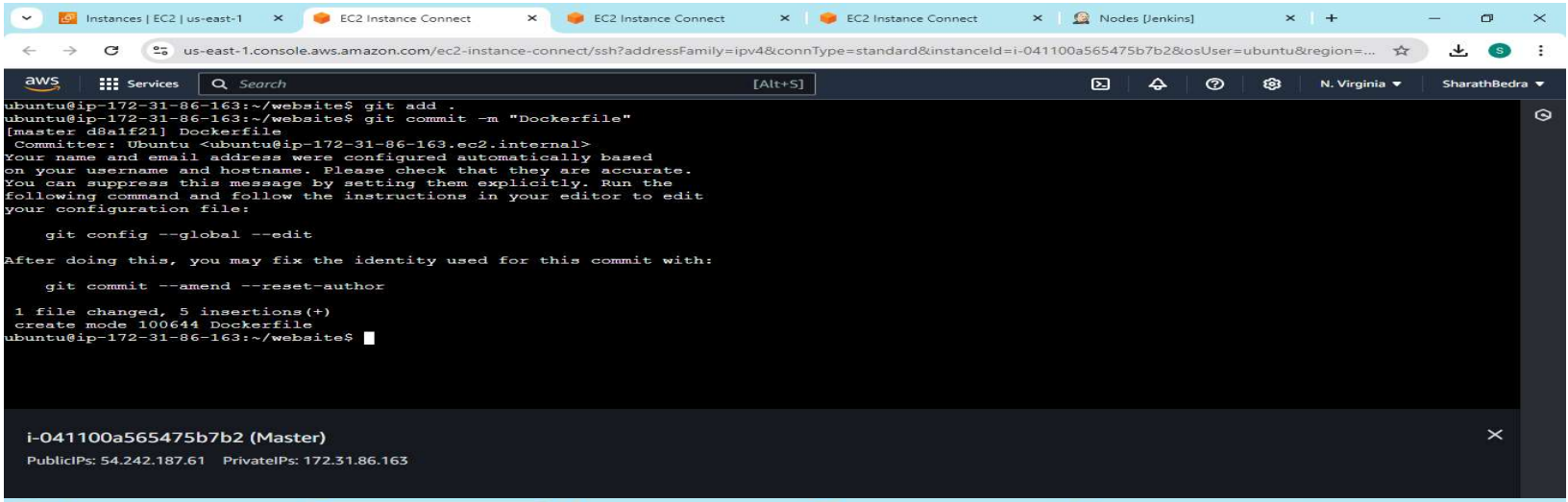
Create a Webhook for Trigger the Jobs;

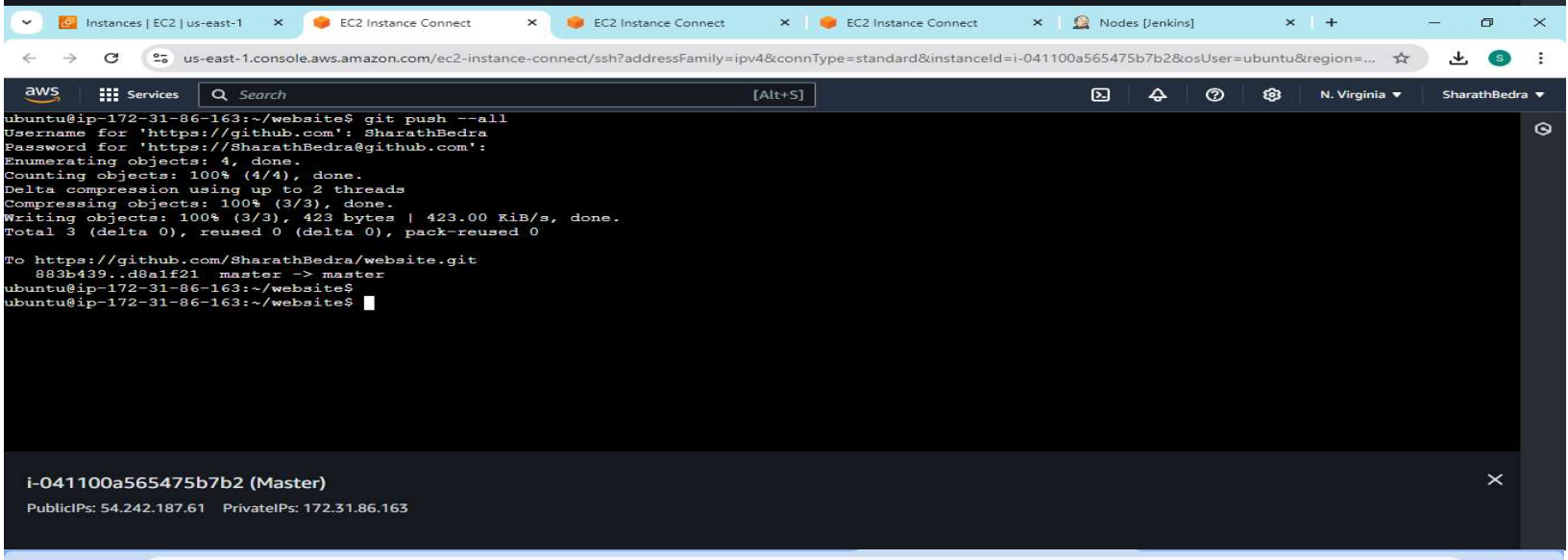


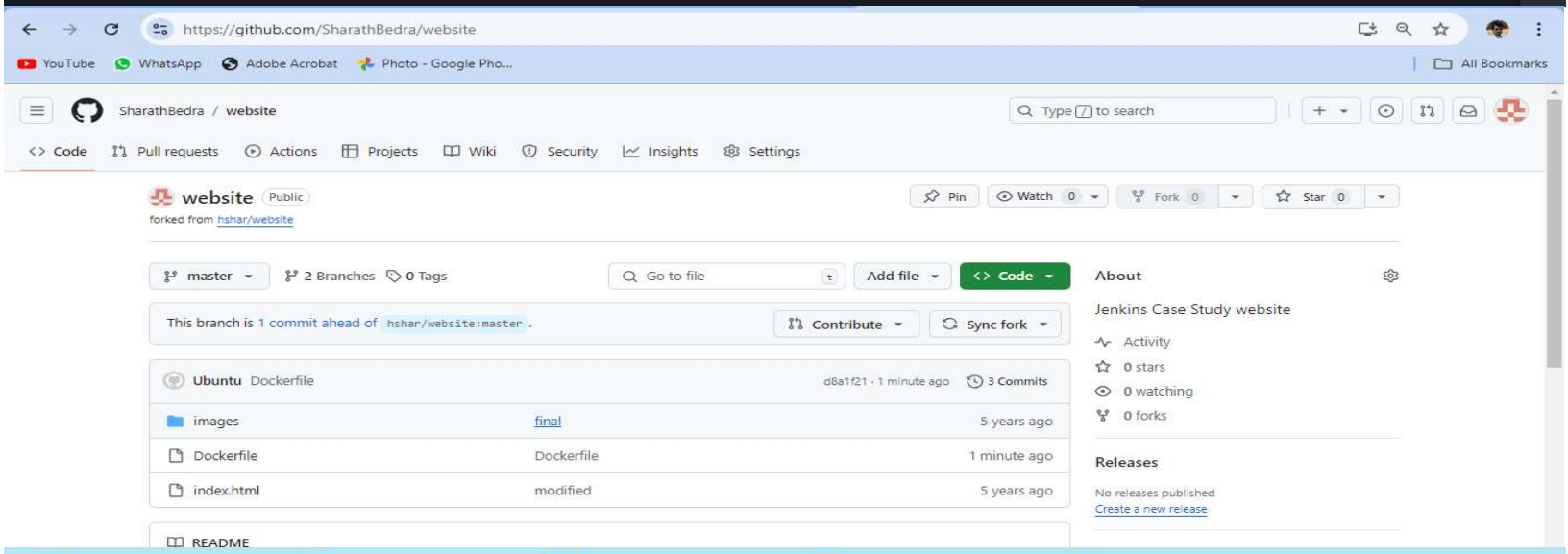
Creating Dockerfile in the master node;

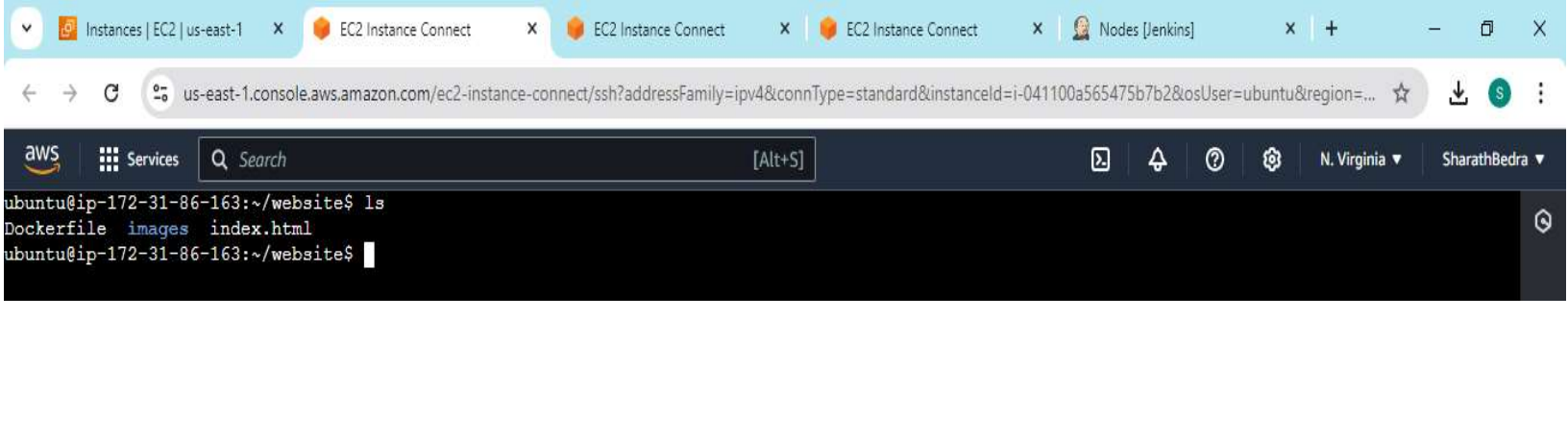




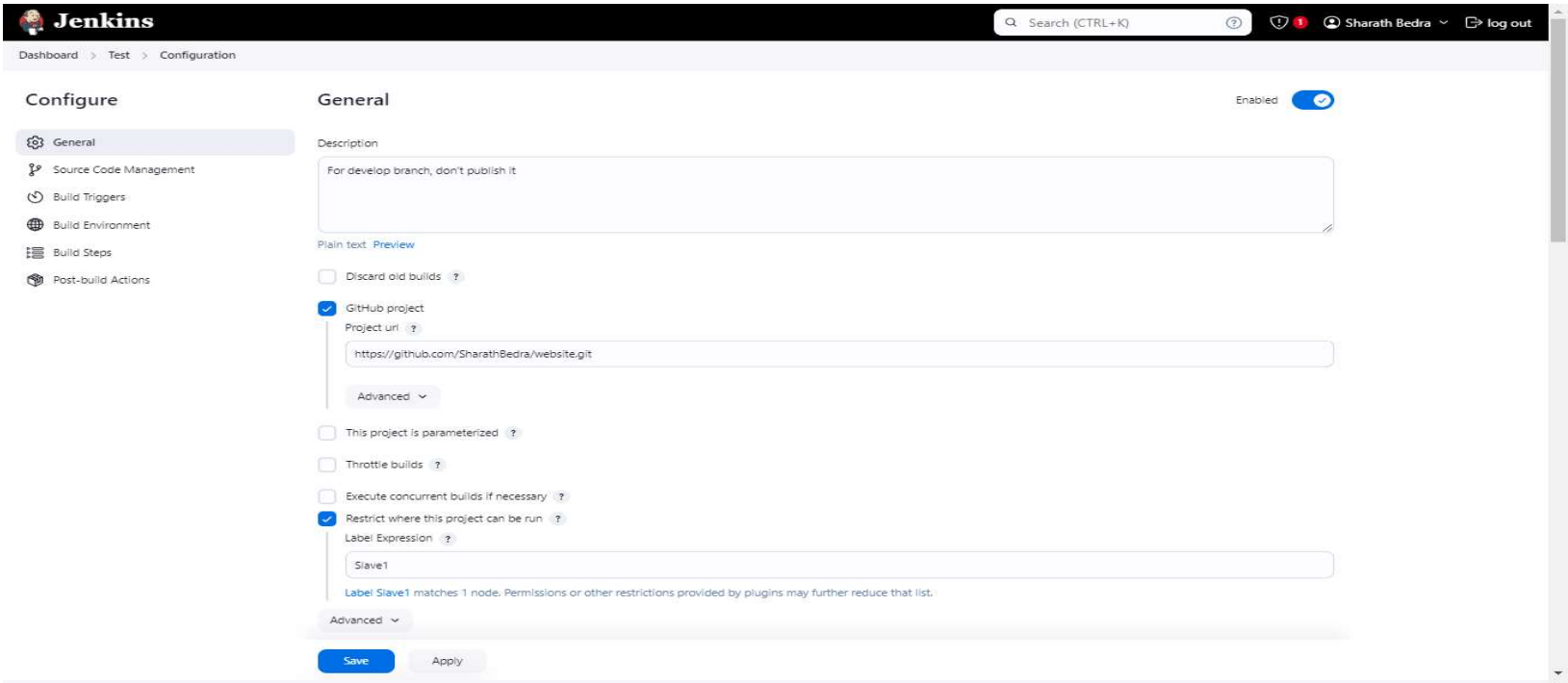

Instances | EC2 | us-east-1
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Nodes [Jenkins]
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?addressFamily=ipv4&connType=standard&instanceId=i-041100a565475b7b2&osUser=ubuntu&region=...
aws
Services
Search
[Alt+S]
N. Virginia
SharathBedra
ubuntu@ip-172-31-86-163:~/website$ git add .
ubuntu@ip-172-31-86-163:~/website$ git commit -m "Dockerfile"
[master d8a1f21] Dockerfile
Committer: Ubuntu <ubuntu@ip-172-31-86-163.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
git config --global --edit
After doing this, you may fix the identity used for this commit with:
git commit --amend --reset-author
1 file changed, 5 insertions(+)
create mode 100644 Dockerfile
ubuntu@ip-172-31-86-163:~/website$
i-041100a565475b7b2 (Master)
PublicIPs: 54.242.187.61 PrivateIPs: 172.31.86.163

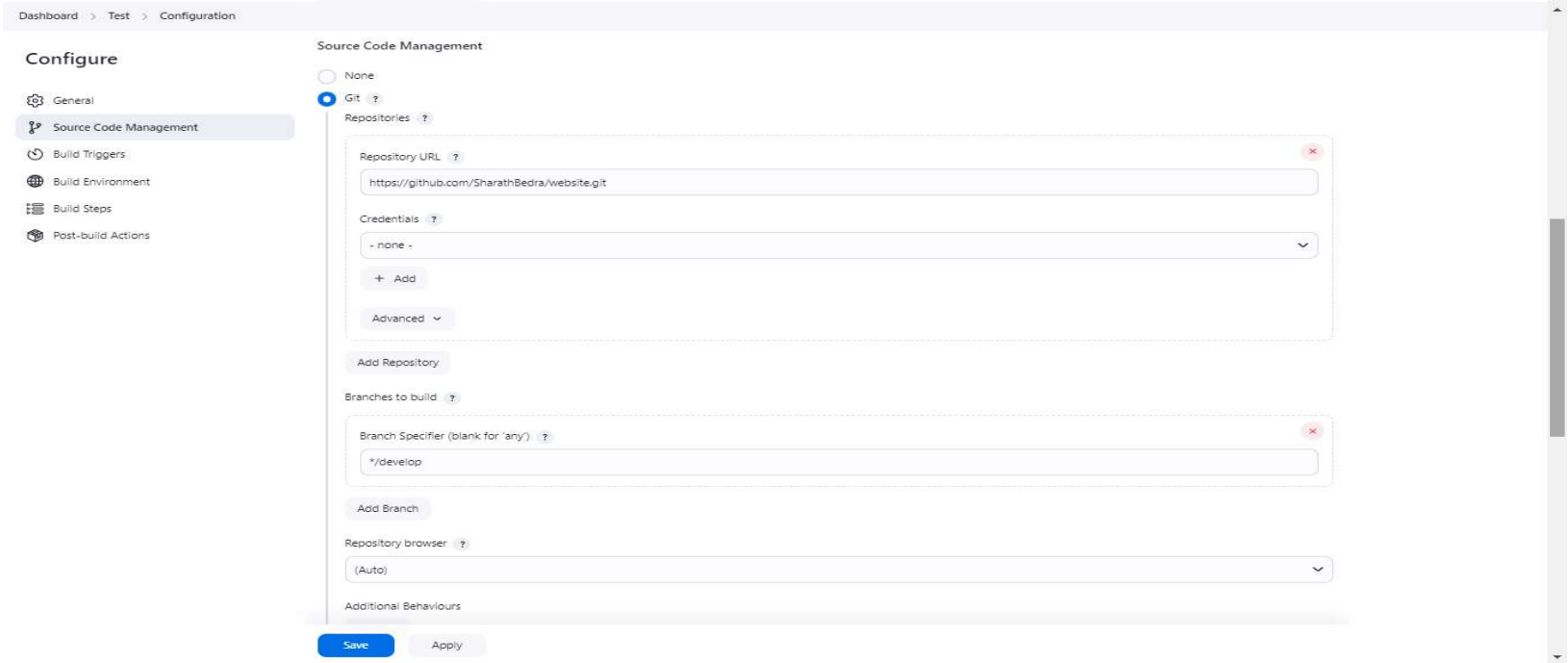

Instances | EC2 | us-east-1
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Nodes [Jenkins]
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?addressFamily=ipv4&connType=standard&instanceId=i-041100a565475b7b2&osUser=ubuntu&region=...
aws
Services
Search
[Alt+S]
N. Virginia
SharathBedra
ubuntu@ip-172-31-86-163:~/website$ git push --all
Username for 'https://github.com': SharathBedra
Password for 'https://SharathBedra@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 2 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 423 bytes | 423.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/SharathBedra/website.git
883b439..d8a1f21 master -> master
ubuntu@ip-172-31-86-163:~/website$
ubuntu@ip-172-31-86-163:~/website$
i-041100a565475b7b2 (Master)
PublicIPs: 54.242.187.61 PrivateIPs: 172.31.86.163

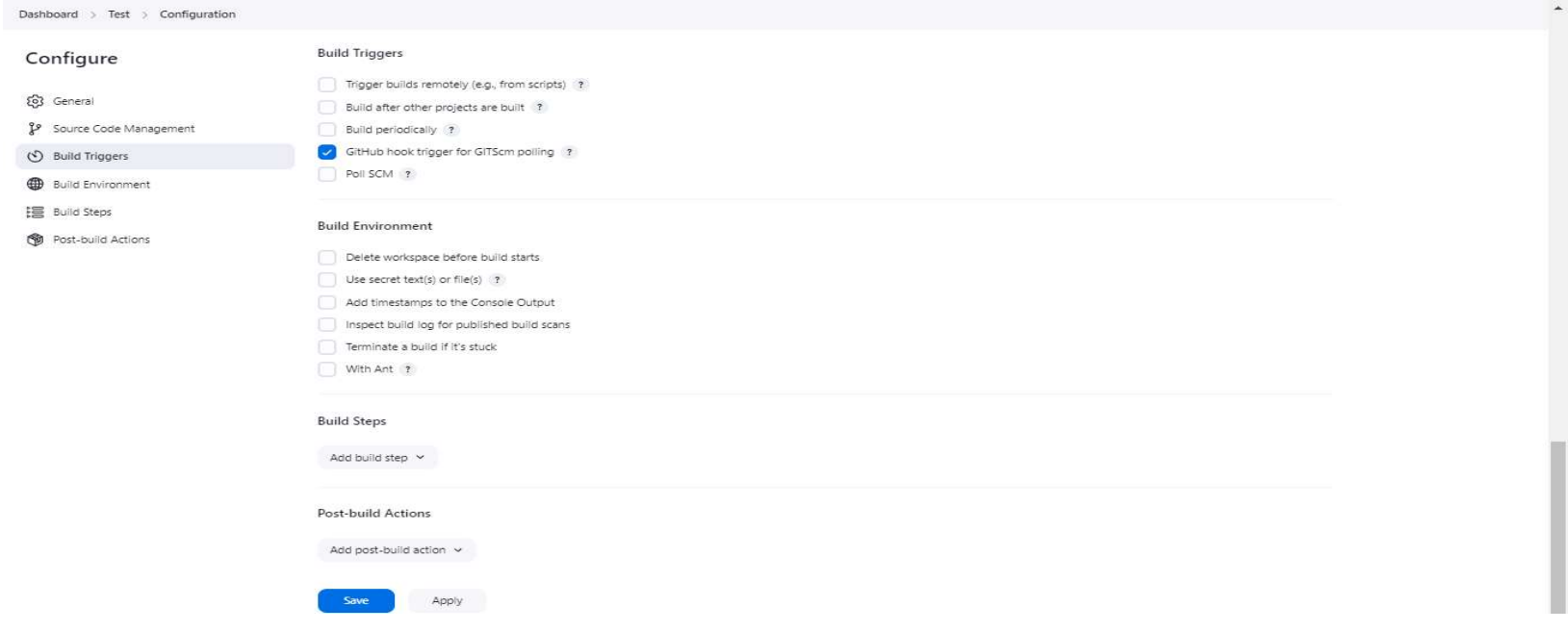

https://github.com/SharathBedra/website
YouTube
WhatsApp
Adobe Acrobat
Photo - Google Pho...
All Bookmarks
SharathBedra / website
Type / to search
Code
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
website
Public
forked from hshar/website
Pin
Watch 0
Fork 0
Star 0
master
2 Branches
0 Tags
Go to file
t
Add file
Code
This branch is 1 commit ahead of hshar/website:master.
Contribute
Sync fork
Ubuntu Dockerfile
d8a1f21 · 1 minute ago
3 Commits
images
final
5 years ago
Dockerfile
Dockerfile
1 minute ago
index.html
modified
5 years ago
README
About
Jenkins Case Study website
Activity
0 stars
0 watching
0 forks
Releases
No releases published
Create a new release

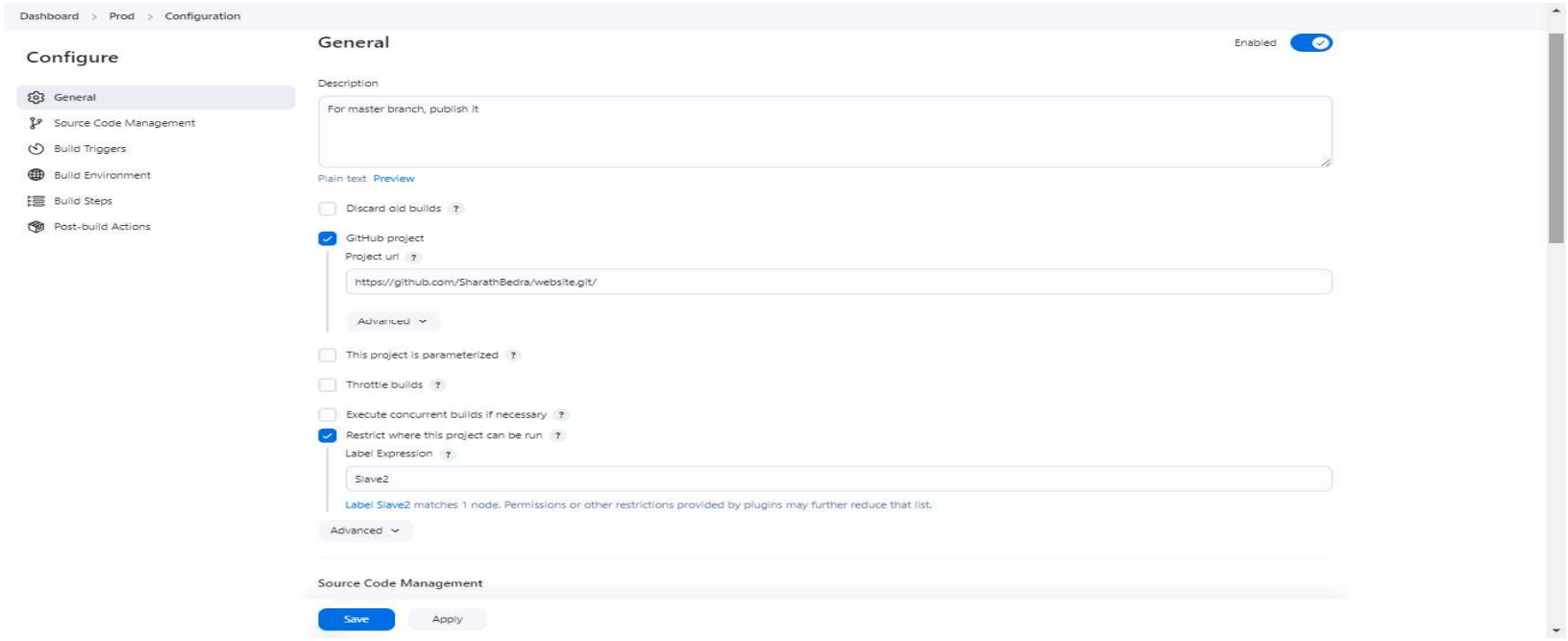

Instances | EC2 | us-east-1
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Nodes [Jenkins]
us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?addressFamily=ipv4&connType=standard&instanceId=i-041100a565475b7b2&osUser=ubuntu&region=...
aws
Services
Search
[Alt+S]
N. Virginia
SharathBedra
ubuntu@ip-172-31-86-163:~/website$ ls
Dockerfile images index.html
ubuntu@ip-172-31-86-163:~/website$

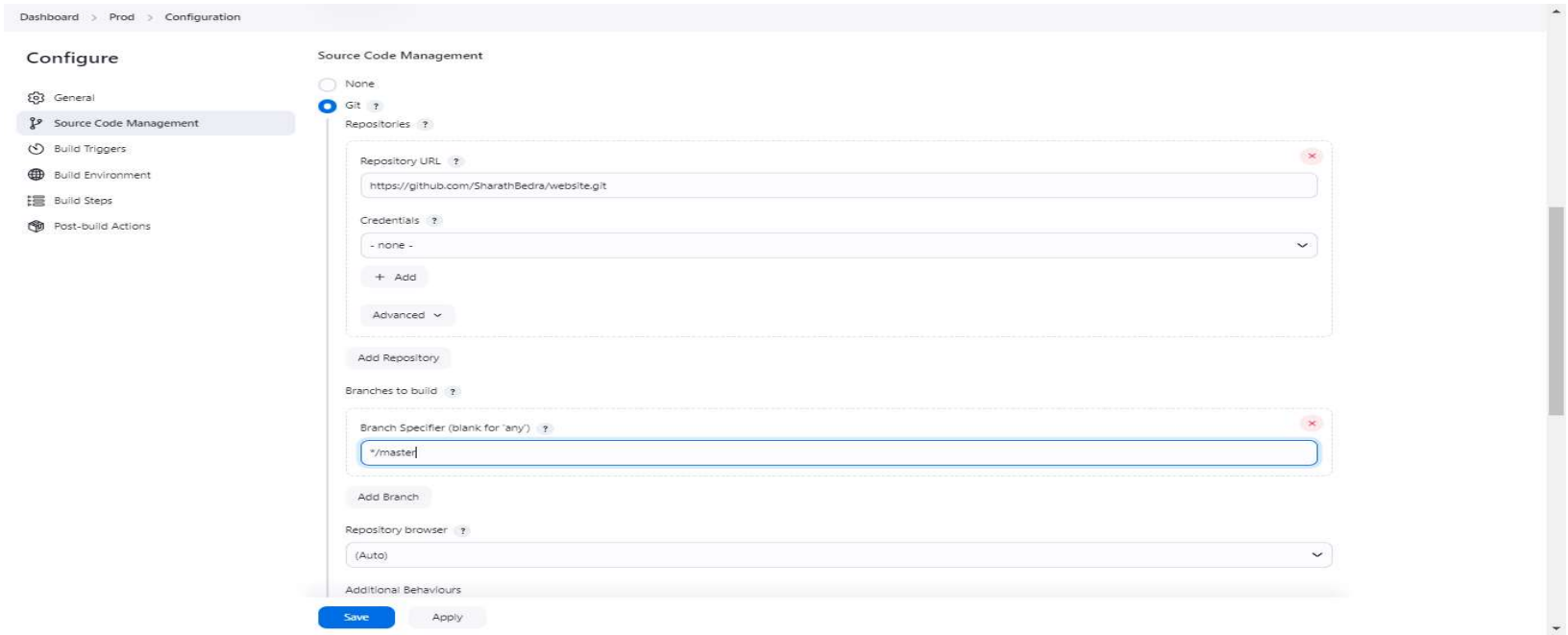
Creating 2 jobs “Test” & “Prod” in Jenkins;

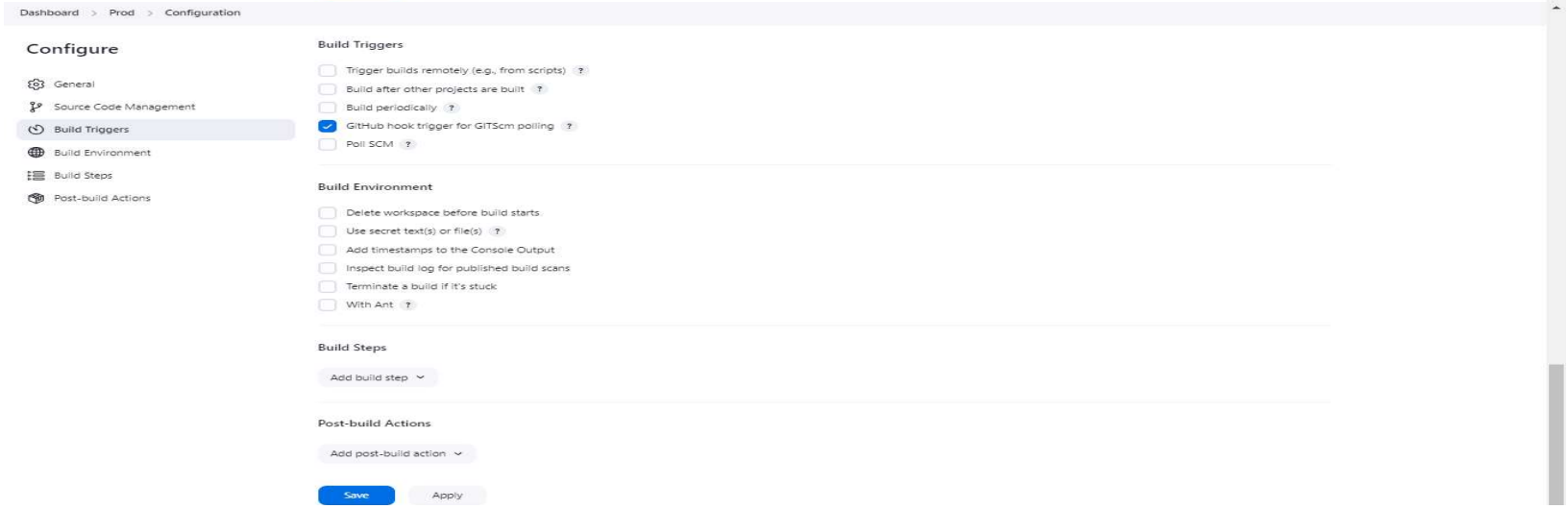


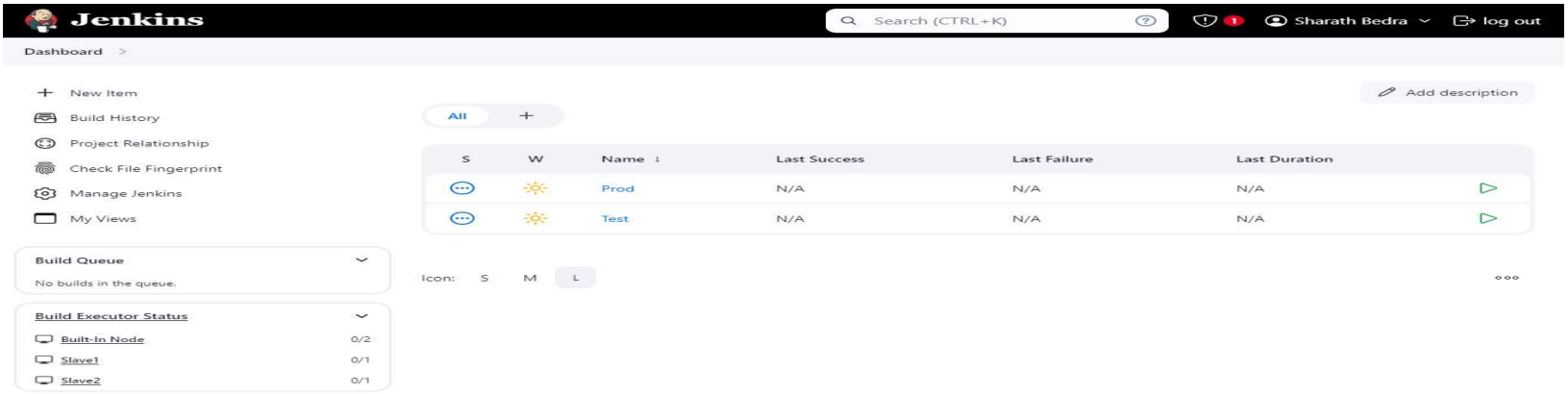




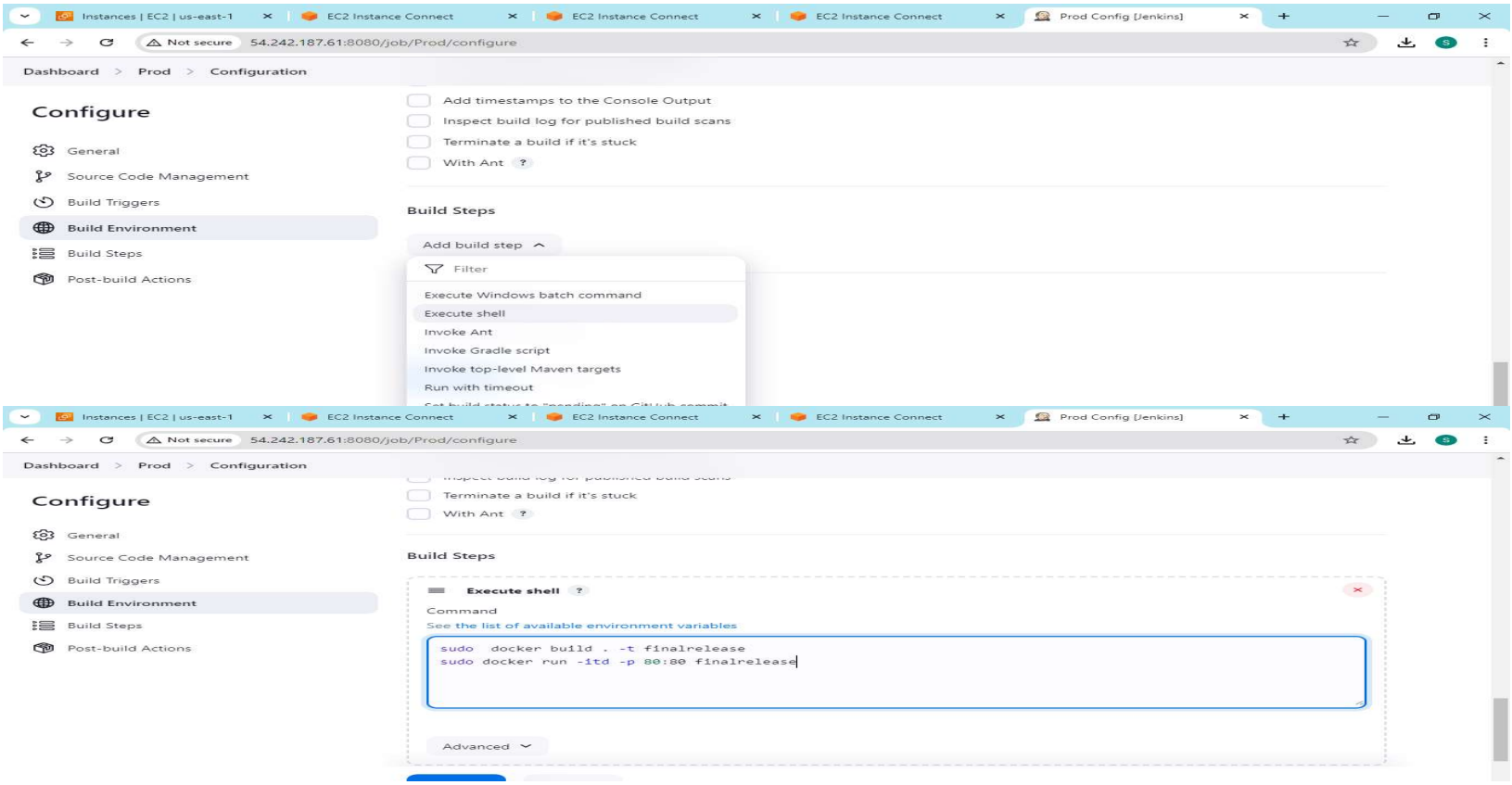

Dashboard > Prod > Configuration
Configure
General
Source Code Management
Build Triggers
Build Environment
Build Steps
Post-build Actions
General
Enabled
Description
For master branch, publish it
Plain text Preview
Discard old builds
GitHub project
Project url
https://github.com/SharathBedra/website.git/
Advanced
This project is parameterized
Throttle builds
Execute concurrent builds if necessary
Restrict where this project can be run
Label Expression
Slave2
Label Slave2 matches 1 node. Permissions or other restrictions provided by plugins may further reduce that list.
Advanced
Source Code Management
Save
Apply


Dashboard > Prod > Configuration
Configure
General
Source Code Management
Build Triggers
Build Environment
Build Steps
Post-build Actions
Source Code Management
None
Git
Repositories
Repository URL
https://github.com/SharathBedra/website.git
Credentials
- none -
Add
Advanced
Add Repository
Branches to build
Branch Specifier (blank for 'any')
*/master
Add Branch
Repository browser
(Auto)
Additional Behaviours
Save
Apply


Dashboard > Prod > Configuration
Configure
General
Source Code Management
Build Triggers
Build Environment
Build Steps
Post-build Actions
Build Triggers
Trigger builds remotely (e.g., from scripts)
Build after other projects are built
Build periodically
GitHub hook trigger for GITScm polling
Poll SCM
Build Environment
Delete workspace before build starts
Use secret text(s) or file(s)
Add timestamps to the Console Output
Inspect build log for published build scans
Terminate a build if it's stuck
With Ant
Build Steps
Add build step
Post-build Actions
Add post-build action
Save
Apply



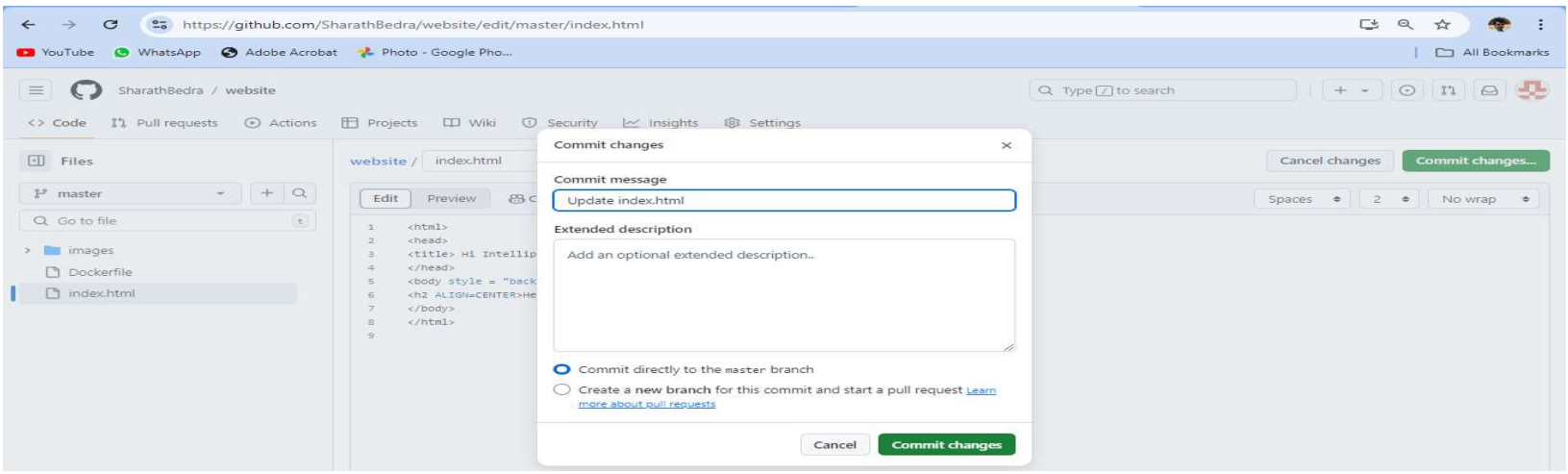
Now we shall configure the Prod (Execute Shell);



A. If a commit is made to the master branch, test and push to prod;

Now we shall commit some changes to index.html file in master branch;

We added Hi to the title;



Build #1 has been successfully created.

Instances | EC2 | us-east-1 | EC2 Instance Connect | EC2 Instance Connect | EC2 Instance Connect | Prod #1 Console [Jenkins]

Not secure 54.242.187.61:8080/job/Prod/1/console

Jenkins

Search (CTRL+K) | Sharath Bedra | log out

Dashboard > Prod > #1 > Console Output

- Status
- Changes
- Console Output
- Edit Build Information
- Delete build '#1'
- Polling Log
- Timings
- Git Build Data

Console Output

Download | Copy | View as plain text

```
Started by GitHub push by SharathBedra
Running as SYSTEM
Building remotely on Slave2 in workspace /home/ubuntu/jenkins/workspace/Prod
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/SharathBedra/website.git
 > git init /home/ubuntu/jenkins/workspace/Prod # timeout=10
Fetching upstream changes from https://github.com/SharathBedra/website.git
 > git --version # timeout=10
 > git --version # 'git version 2.34.1'
 > git fetch --tags --force --progress -- https://github.com/SharathBedra/website.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
 > git config remote.origin.url https://github.com/SharathBedra/website.git # timeout=10
 > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
 > git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 179ee8f948f01fbc3f1fce194fb3e49d89fae62e (refs/remotes/origin/master)
 > git config core.sparsecheckout # timeout=10
```

Instances | EC2 | us-east-1 | EC2 Instance Connect | EC2 Instance Connect | EC2 Instance Connect | Prod #1 Console [Jenkins]

Not secure 54.242.187.61:8080/job/Prod/1/console

Dashboard > Prod > #1 > Console Output

```
invoke-rc.d: policy-rc.d denied execution of start.
Processing triggers for libc-bin (2.39-0ubuntu8.3) ...
Processing triggers for ca-certificates (20240203) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
Removing intermediate container 0c8ab7b5ee0a
 ---> 43b40adeb1bb
Step 4/5 : ADD  . /var/www/html
 ---> 5c82d542b73f
Step 5/5 : ENTRYPOINT apachectl -D FOREGROUND
 ---> Running in b8373d373abd
Removing intermediate container b8373d373abd
 ---> 589e273e68c8
Successfully built 589e273e68c8
Successfully tagged finalrelease:latest
+ sudo docker run -itd -p 80:80 finalrelease
09766e2d1565d92ac0ce1b8e80393c31f3cfefd6c1e9fc7e9436f07975a54820
Finished: SUCCESS
```

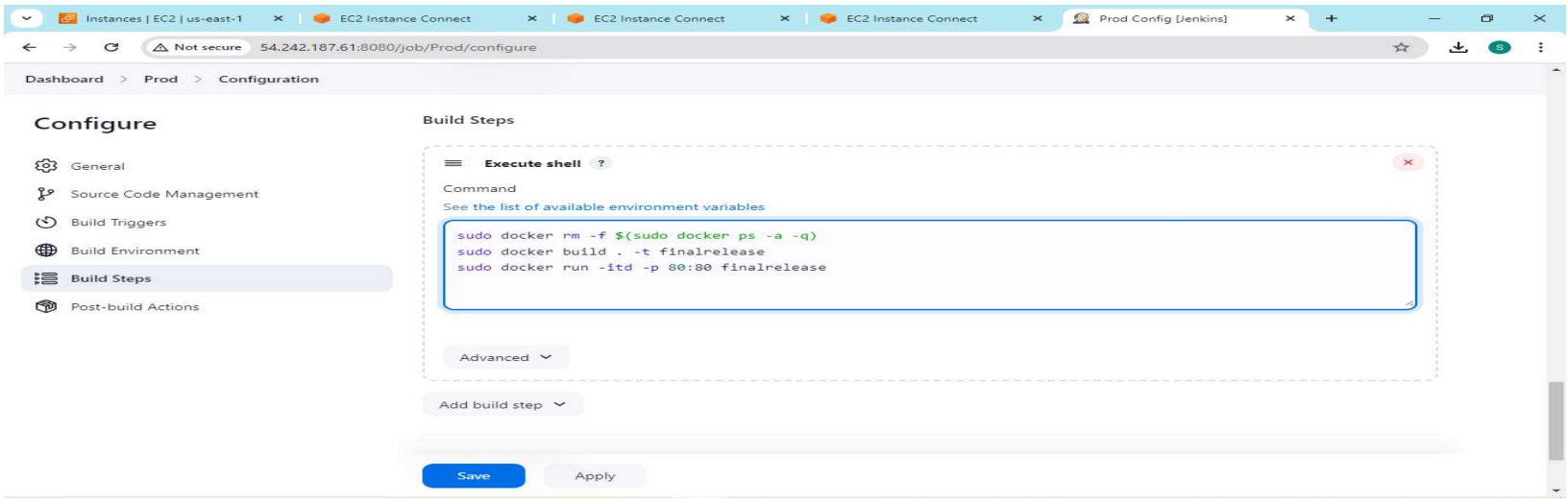
Not secure http://54.164.237.82

YouTube | WhatsApp | Adobe Acrobat | Photo - Google Pho... | All Bookmarks

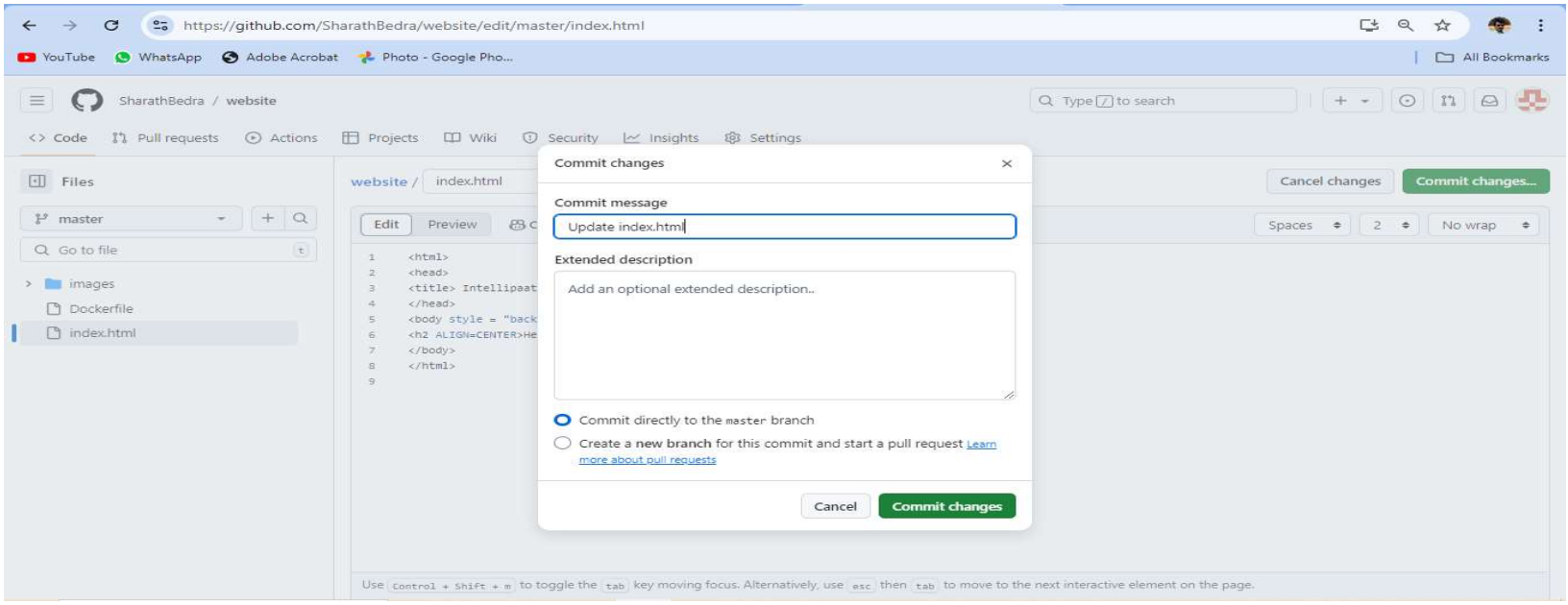
Hello world!

GitHub

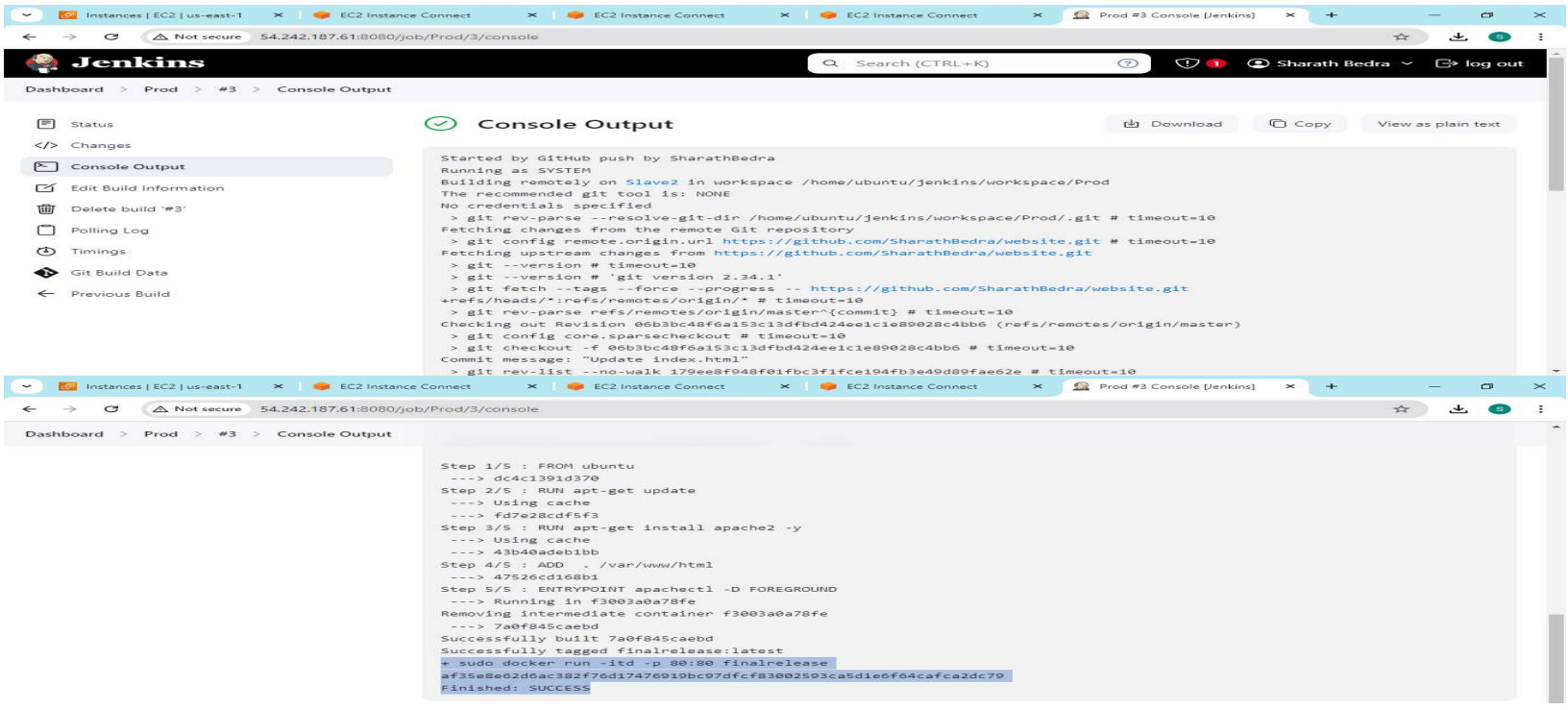
If we do the changes a second time, we shall paste this command “sudo docker rm -f $(sudo docker ps -a -q)” in “execute shell” before these commands;



Here now we shall remove Hi from index.html file and commit it.



Build has been successfully executed.



B. If a commit is made to develop a branch, test the product, do not push to prod;

Creating a develop.txt file in develop branch;