

## DEVOPS TASK- 2

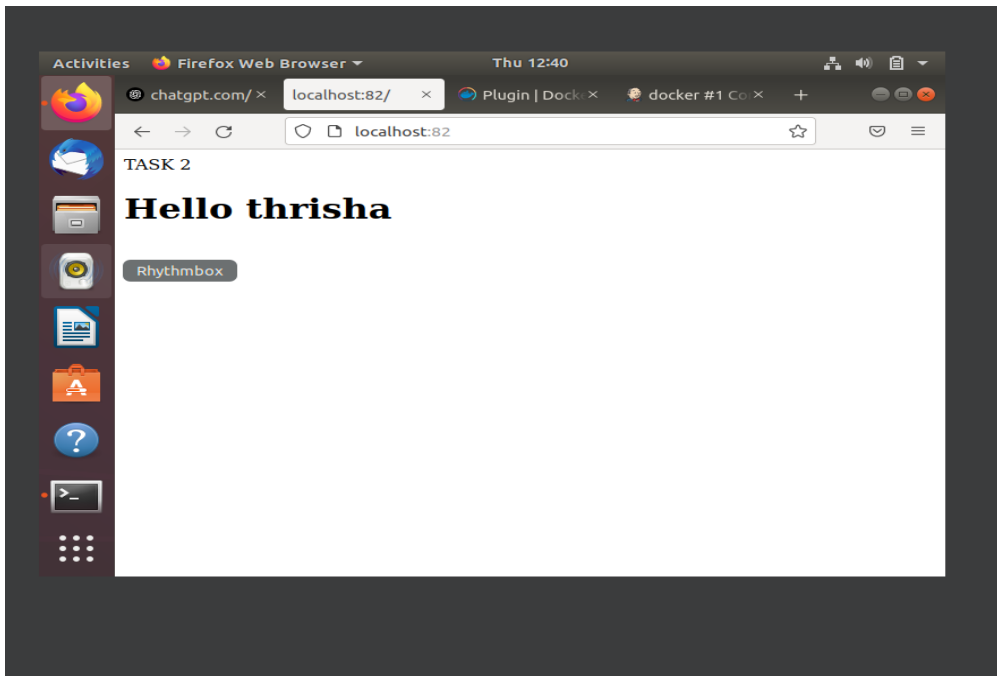
### Step 1: Installation of Docker:

#### CODE :

```
sudo apt install docker.io Docker --version sudo systemctl start docker sudo  
systemctl enable docker
```

```
sudo systemctl status docker
```

```
root@LAPTOP-6V70H2B0:~# apt install docker.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker.io is already the newest version (26.1.3-0ubuntu1~24.04.1).
The following packages were automatically installed and are no longer required:
  libdrm-intel1 libpciaccess0 libsensors-config libsensors5
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 9 not upgraded.
root@LAPTOP-6V70H2B0:~# docker --version
Docker version 26.1.3, build 26.1.3-0ubuntu1~24.04.1
root@LAPTOP-6V70H2B0:~# sudo systemctl start docker
root@LAPTOP-6V70H2B0:~# sudo systemctl enable docker
root@LAPTOP-6V70H2B0:~# sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
   Active: active (running) since Thu 2025-03-20 06:44:32 UTC; 1h 32min ago
   TriggeredBy: ● docker.socket
   Main PID: 9561 (dockerd)
     Tasks: 30
    Memory: 62.0M
   CGroup: /system.slice/docker.service
           └─ 9561 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
             └─ 18253 /usr/bin/docker-proxy -proto tcp -host-ip 0.0.0.0 -host-port 70 -container-ip 172.17.0.2 -con
             └─ 18261 /usr/bin/docker-proxy -proto tcp -host-ip :: -host-port 70 -container-ip 172.17.0.2 -con
Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.185097797Z" level=warning msg="WARNIN
Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.185409232Z" level=warning msg="WARNIN
Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.185440810Z" level=warning msg="WARNIN
Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.185455418Z" level=warning msg="WARNIN
Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.185498240Z" level=info msg="Docker d
Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.185805402Z" level=info msg="Daemon l
Mar 20 06:44:32 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:44:32.379205869Z" level=info msg="API list
Mar 20 06:44:32 LAPTOP-6V70H2B0 systemd[1]: Started docker.service - Docker Application Container Engine.
Mar 20 06:45:16 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:45:16.405475078Z" level=info msg="Layer sh
Mar 20 06:45:16 LAPTOP-6V70H2B0 dockerd[9561]: time="2025-03-20T06:45:16.550116575Z" level=info msg="Layer sh
lines 1-23/23 (END) ...skipping...
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; preset: enabled)
```

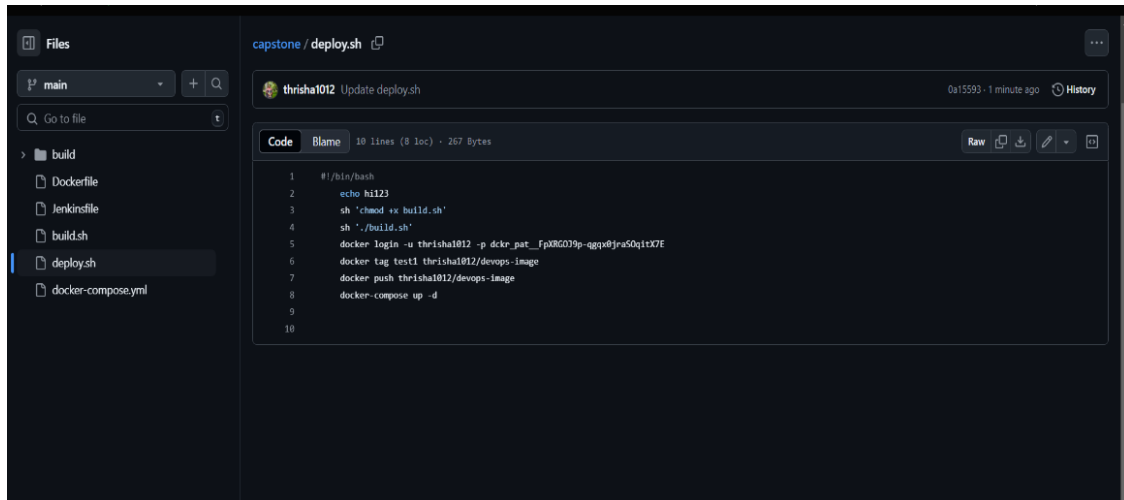


## Step 2:Fork

Fork a copy of a GitHub repo which contains the necessary files which will result in the clone of that repo in our own repository

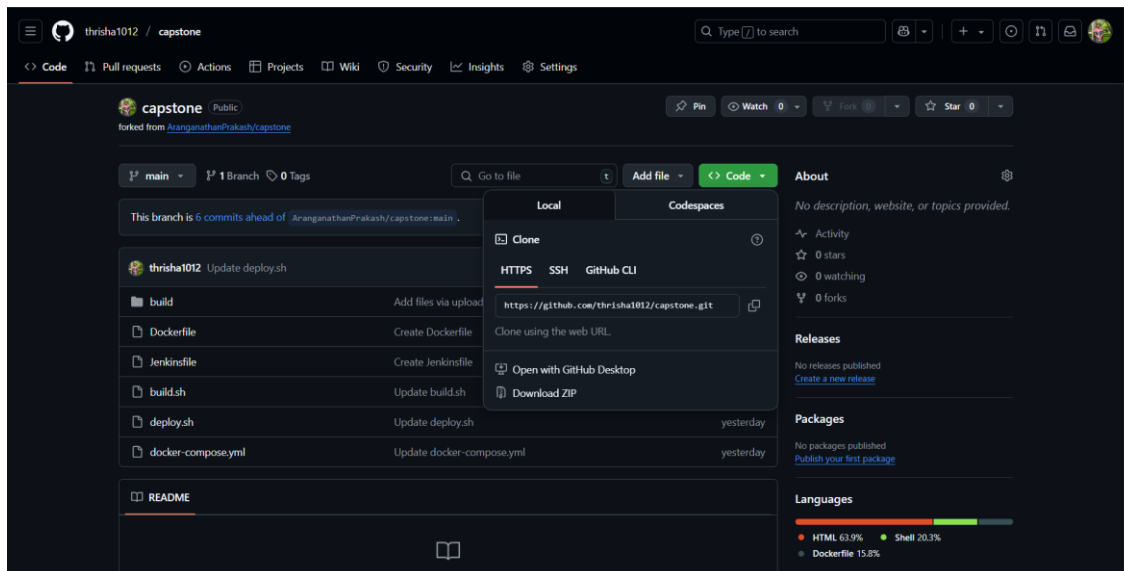
1. Then change the token and repo name of the docker Hub in the deploy.sh file which is in our repository.

## SCREENSHOT :



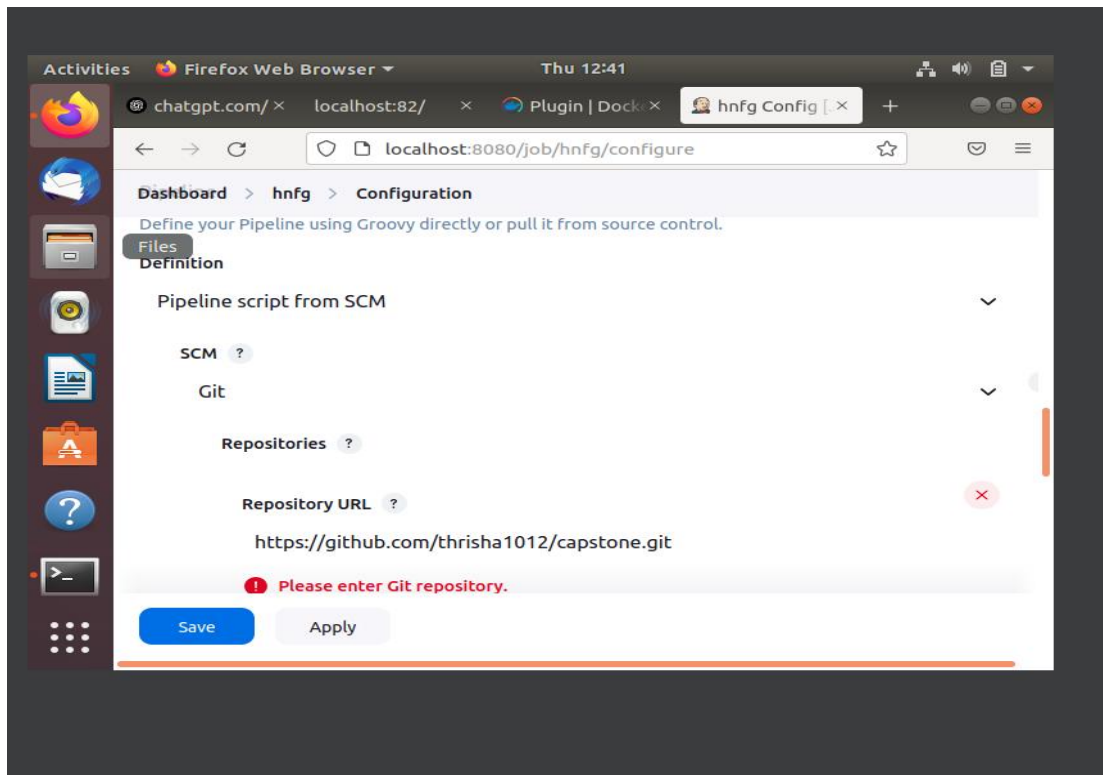
2.Then copy the GitHub link of the repository and go to Jenkins.

## SCREENSHOT:



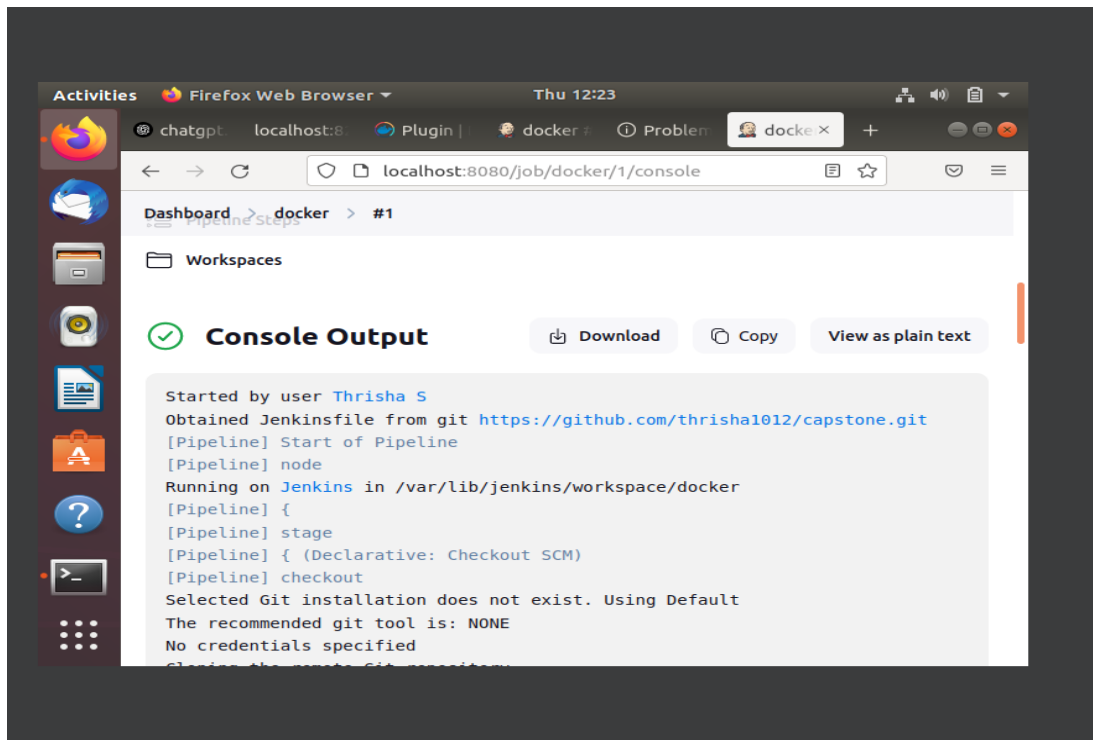
3. In Jenkins, create a new item (Job) with a type pipeline and add the copied GitHub url to it with the correct branch and Jenkinsfile.

### SCREENSHOT:



4. After Creating the job, build it and it will give the console output and the docker image will be created.

### SCREENSHOT:



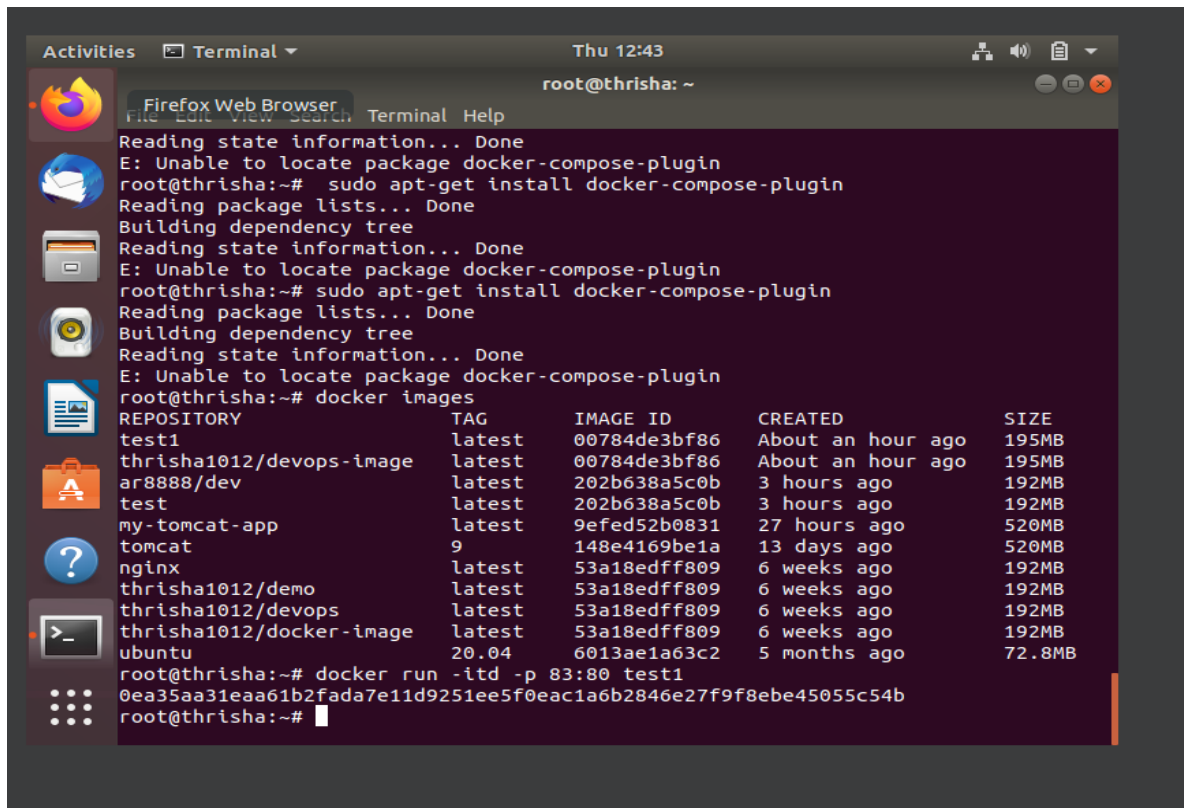
5. Now Build this docker image in the terminal with desired port number to it.

#### CODE:

docker images

docker build -itd -p 70:80 test1

#### SCREENSHOT:



6.Go to the Browser and search for localhost:<PORT\_NUMBER> and the respective application will be hosted.

## SCREENSHOT:

