

## Integration of Devops tools with Jenkins

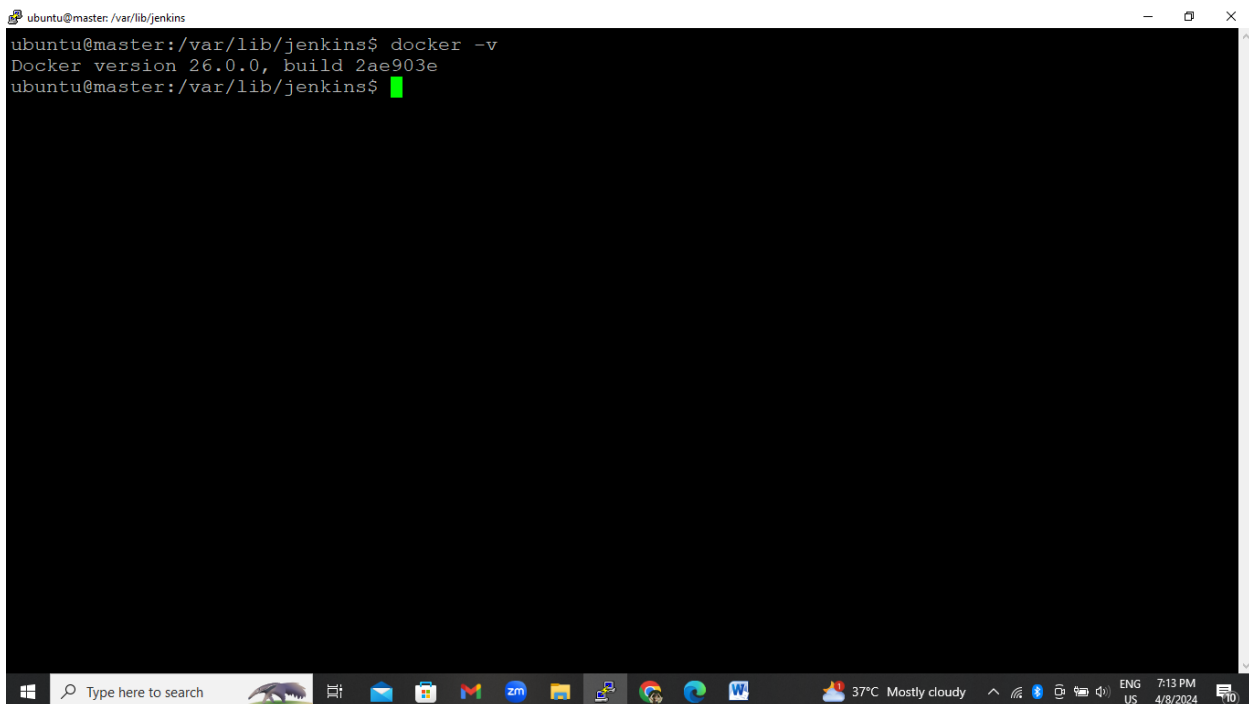
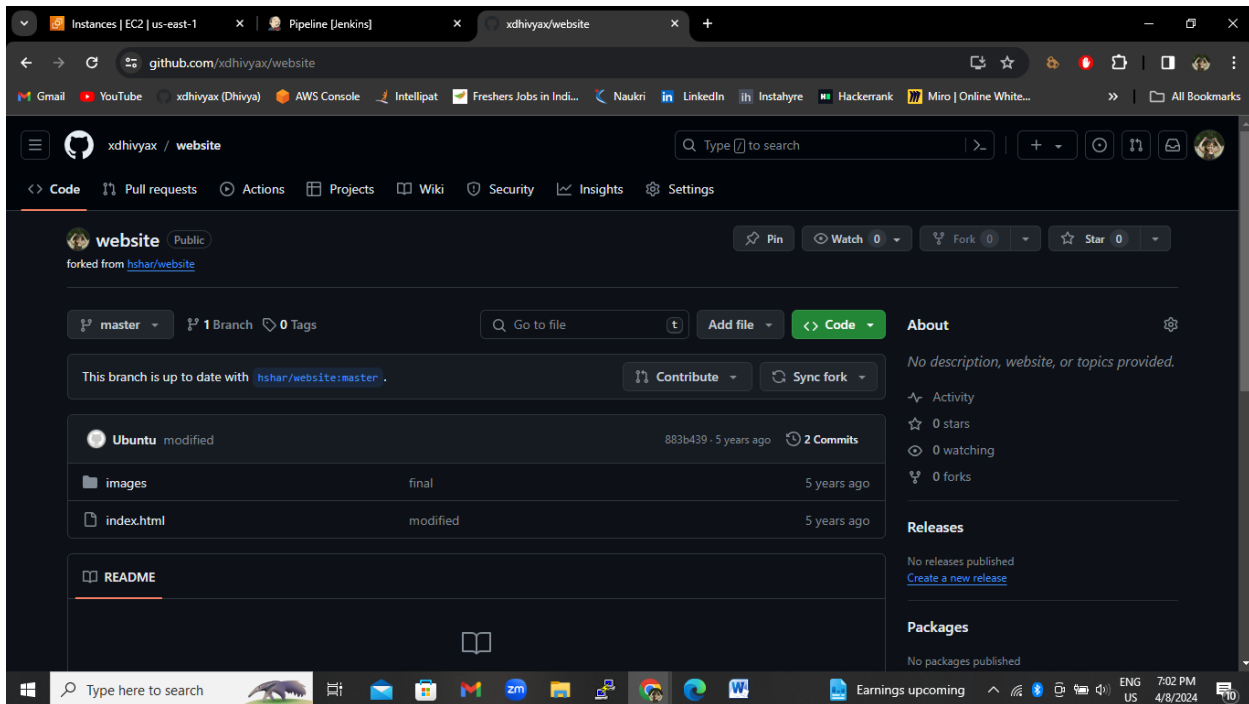
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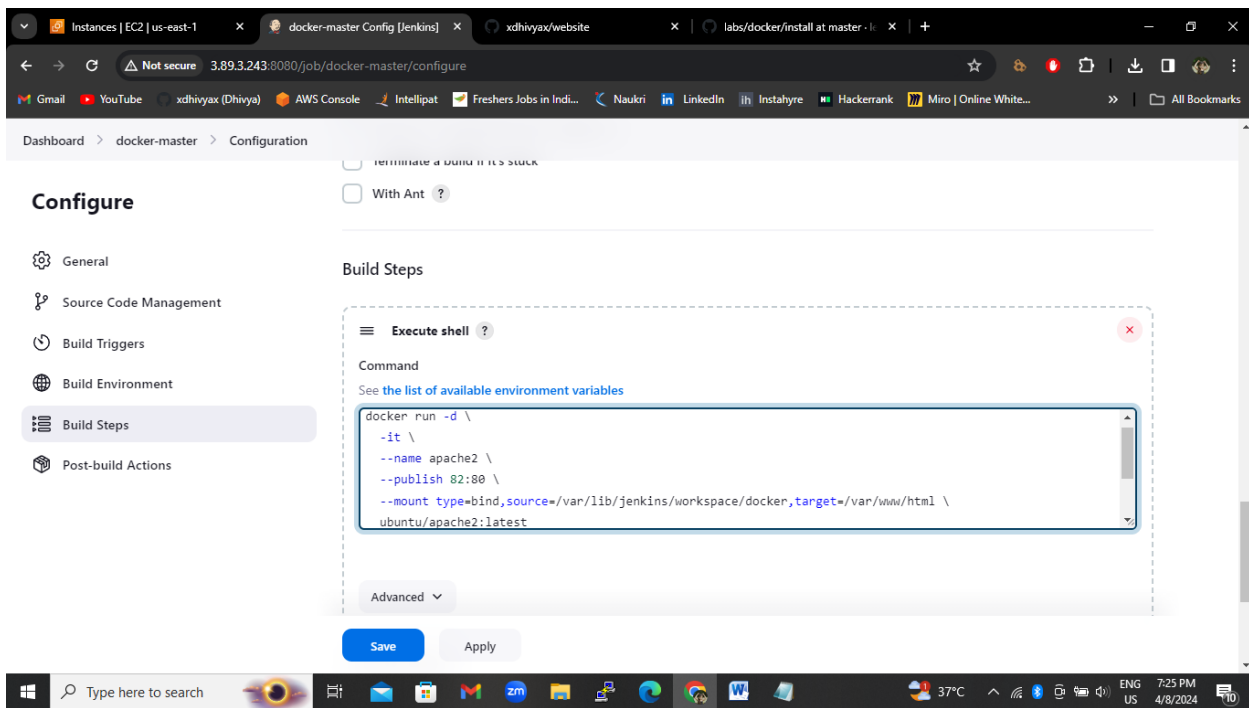
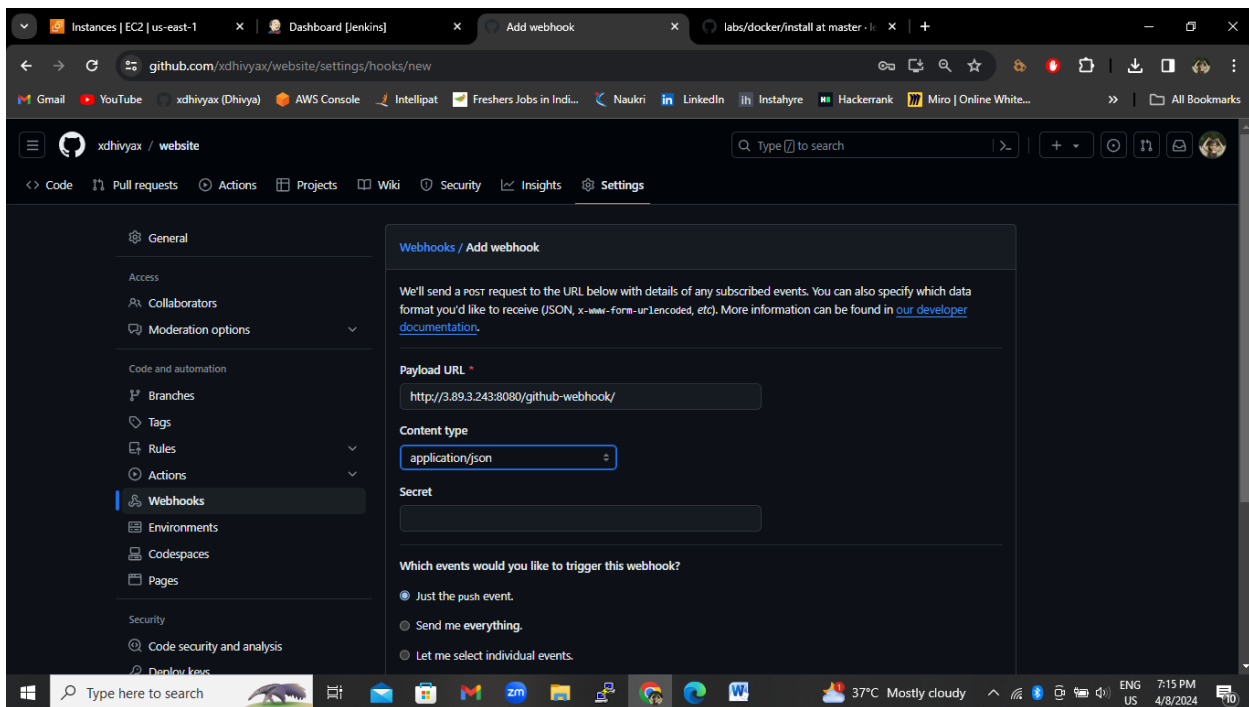
You have been hired as a Devops Engineer in xyz software company. They want to implement CI/CD pipeline in their company. You have been asked to implement this lifecycle as fast as possible. As this is a product-based company, their product is available on this GitHub link.

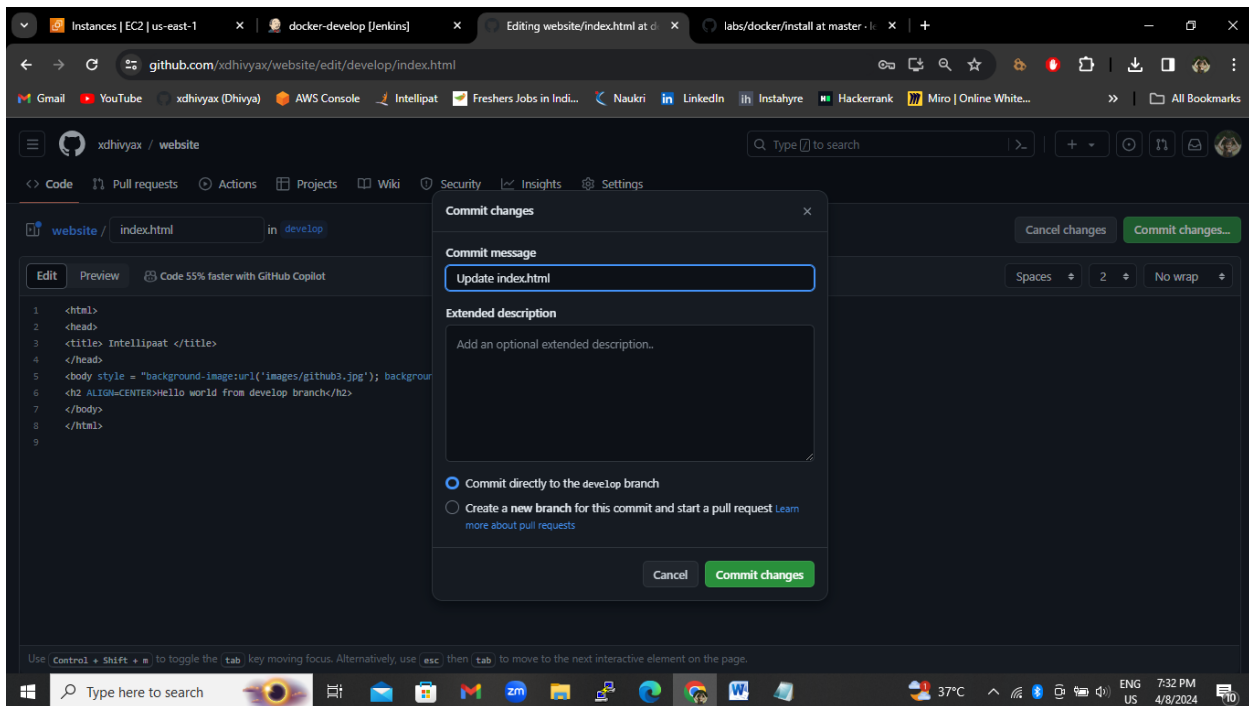
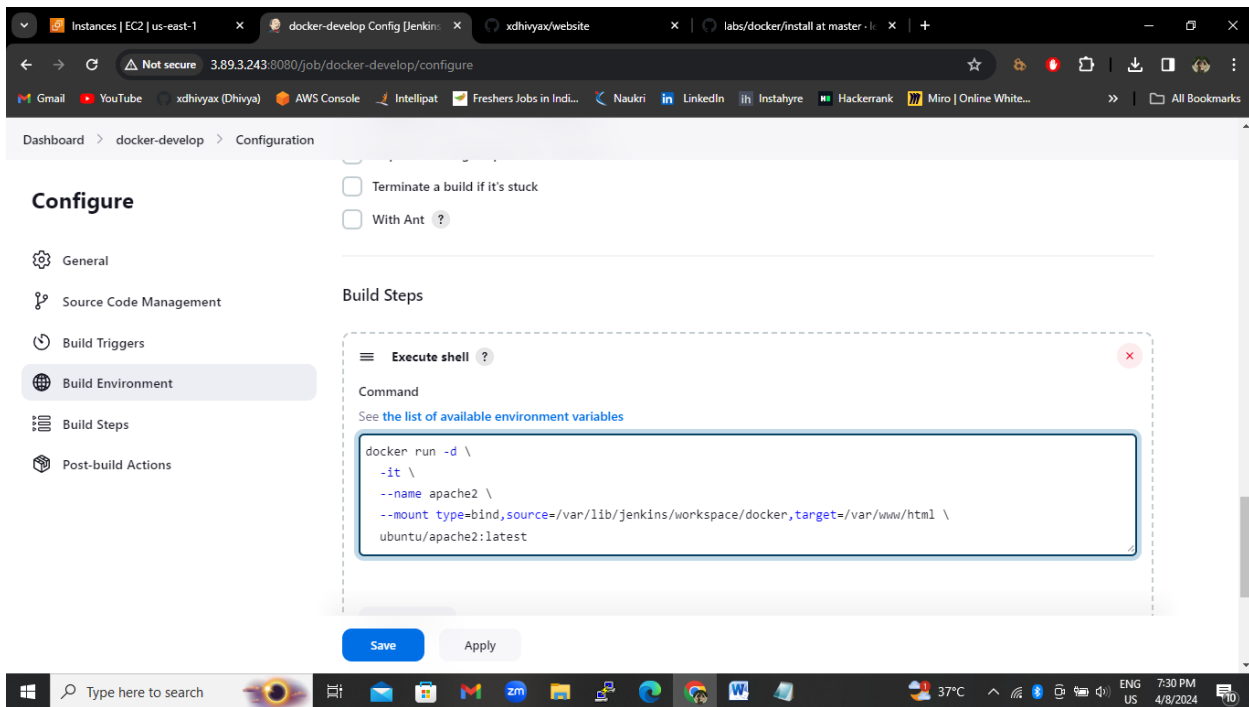
<https://github.com/hshar/website.git>

**Following are the specifications of the Continuous integration:**

1. Git Workflow has to be implemented
  2. Code Build should automatically be triggered once commit is made to master branch or develop branch.  
  
If commit is made to master branch, build and publish website on port 82. If commit is made to develop branch, just build the product, do not publish.
  3. Create a pipeline for the above tasks.
  4. Create a container with Ubuntu and apache installed in it and use that container to build the code and the code should be on '/var/www/html'.
-







Instances | EC2 | us-e x docker-develop #6 C x website/index.html a x labs/docker/install a x linux - Can't su to us x ChatGPT x + -

Not secure 3.89.3.243:8080/job/docker-develop/6/console

Gmail YouTube xdhivayx (Dhivya) AWS Console Intellipat Freshers Jobs in Indi... Naukri LinkedIn Instahyre Hackerrank Miro | Online White... All Bookmarks

Dashboard > docker-develop > #6 > Console Output

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#6'

Polling Log

Git Build Data

Previous Build

### Console Output

```
Started by GitHub push by xdhivayx
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/docker-develop
The recommended git tool is: NONE
No credentials specified
> /usr/bin/git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/docker-develop/.git # timeout=10
Fetching changes from the remote Git repository
> /usr/bin/git config remote.origin.url https://github.com/xdhivayx/website.git # timeout=10
Fetching upstream changes from https://github.com/xdhivayx/website.git
> /usr/bin/git --version # timeout=10
> git --version # 'git version 2.34.1'
> /usr/bin/git fetch --tags --force --progress -- https://github.com/xdhivayx/website.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git rev-parse refs/remotes/origin/develop^{commit} # timeout=10
Checking out Revision d2b942093b5fea678b03964d64ca9d097ea8c54d (refs/remotes/origin/develop)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f d2b942093b5fea678b03964d64ca9d097ea8c54d # timeout=10
Commit message: "Update index.html"
> /usr/bin/git rev-list --no-walk 434f22760d1e34e6210b6ab65191e78d75a8ad6c # timeout=10
[docker-develop] $ /bin/sh -xe /tmp/jenkins1044377387316080184.sh
+ docker run -d -it --name apache2 --mount type=bind,source=/var/lib/jenkins/workspace/docker,target=/var/www/html ubuntu/apache2:latest
fe0238971d4096144ac427cd960a86283a969add1ad26b078a169d1171ef7101
Finished: SUCCESS
```

Type here to search

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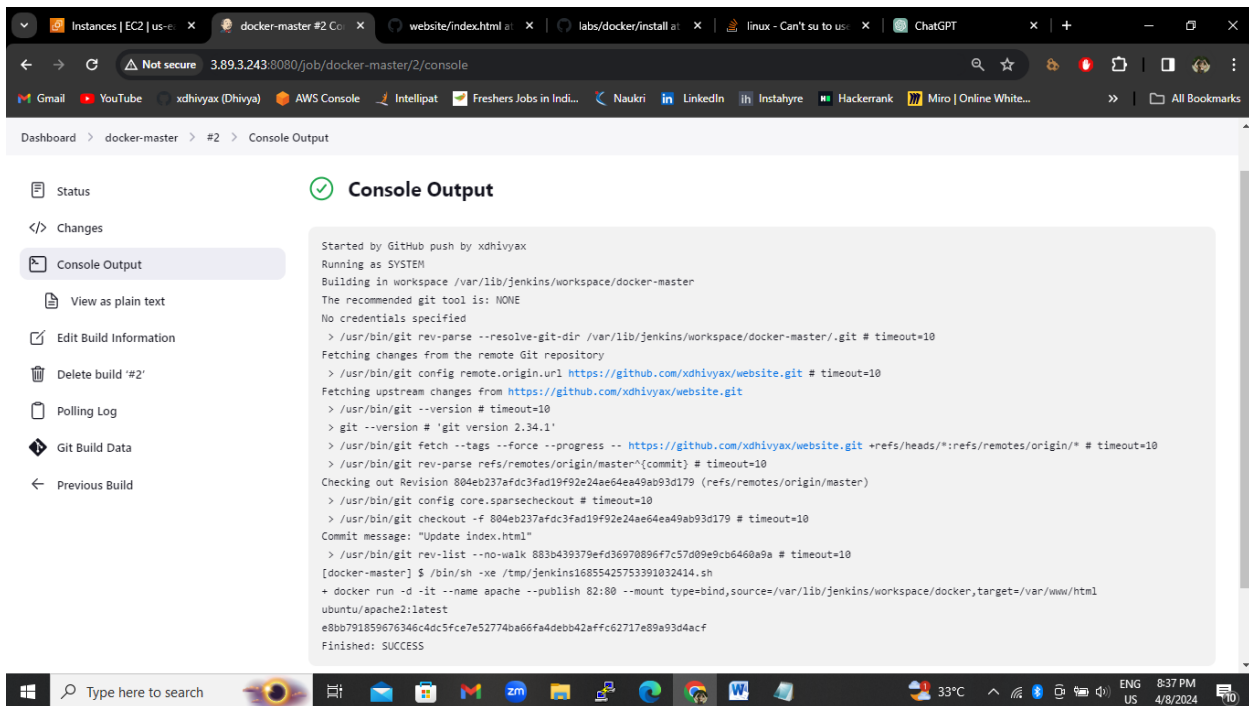
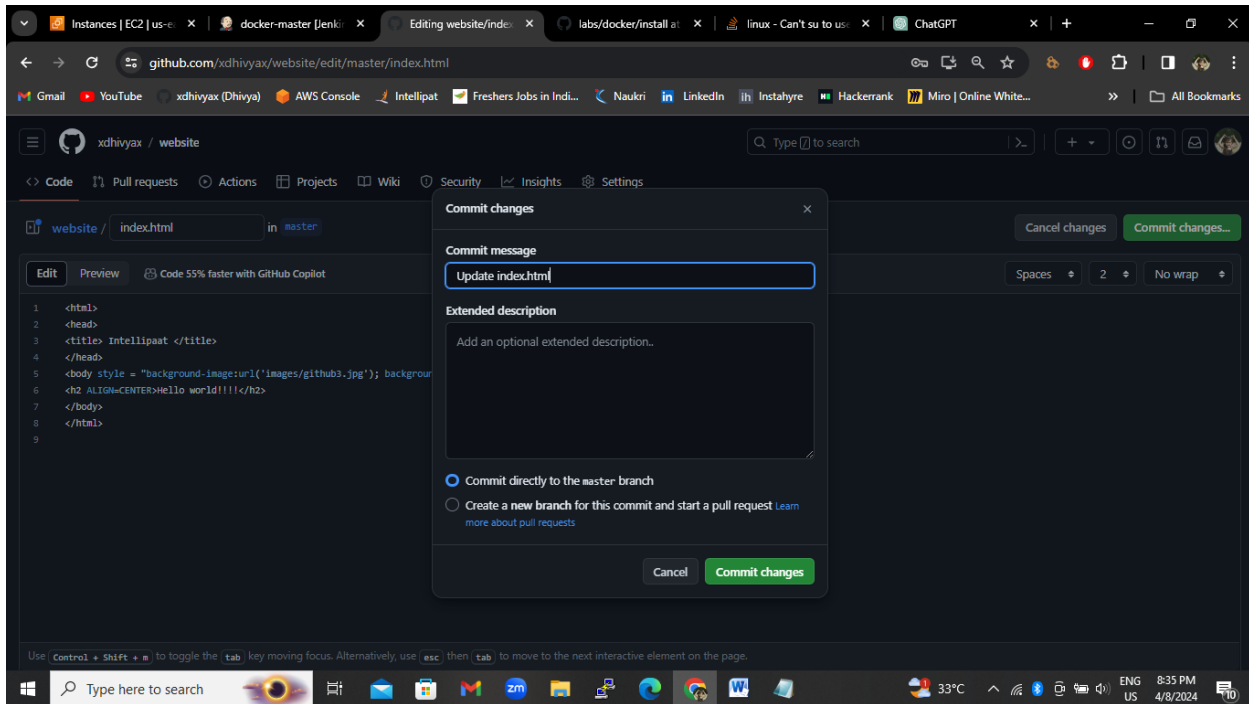
root@master: /var/lib/jenkins/workspace/docker-develop

```
jenkins@master:~/workspace$ docker ps
CONTAINER ID   IMAGE               COMMAND                  CREATED        STATUS        PORTS
fe0238971d40   ubuntu/apache2:late "apache2-foreground"    3 minutes ago Up 3 minutes  80/tcp
apache2
```

jenkins@master:~/workspace\$

Type here to search

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```
jenkins@master:~/workspace$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS
PORTS         NAMES
e8bb79185967   ubuntu/apache2:latest   "apache2-foreground"   About a minute ago   Up About a minute
0.0.0.0:82->80/tcp, :::82->80/tcp   apache
fe0238971d40   ubuntu/apache2:latest   "apache2-foreground"   15 minutes ago      Up 15 minutes
80/tcp                                     apache2
jenkins@master:~/workspace$
```

```
jenkins@master:~/workspace/docker$ docker inspect e8bb79185967 | grep -A 5 -i mounts
"Mounts": [
  {
    "Type": "bind",
    "Source": "/var/lib/jenkins/workspace/docker",
    "Target": "/var/www/html"
  }
]
--
"Mounts": [
  {
    "Type": "bind",
    "Source": "/var/lib/jenkins/workspace/docker",
    "Destination": "/var/www/html",
    "Mode": ""
  }
]
jenkins@master:~/workspace/docker$ pwd
/var/lib/jenkins/workspace/docker
jenkins@master:~/workspace/docker$ ls
images  index.html
jenkins@master:~/workspace/docker$ cat index.html
<html>
<head>
<title> Intellipaat </title>
</head>
<body style = "background-image:url('images/github3.jpg'); background-size: 100%">
<h2 ALIGN=CENTER>Hello world!!!!</h2>
</body>
</html>
jenkins@master:~/workspace/docker$
```



Hello world!!!!



GitHub

