### Akilandeshwari Srinivasan(451036)

### Lab 4 - CLCM3404

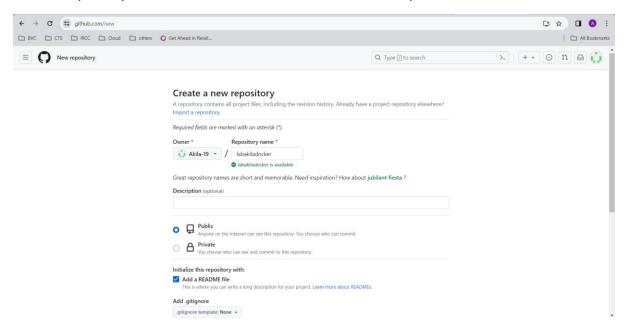
Due by: 09-12-2023

# **Preparation:**

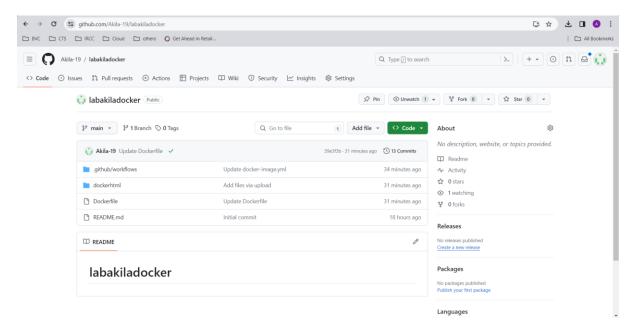
In this lab the task given is deploy an website on AWS EC2 using Docker and implement CI/CD.

# **Screenshots:**

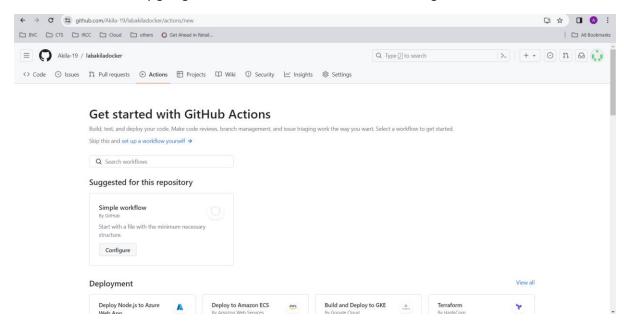
Create a repository and include README file. Also make the file as public.



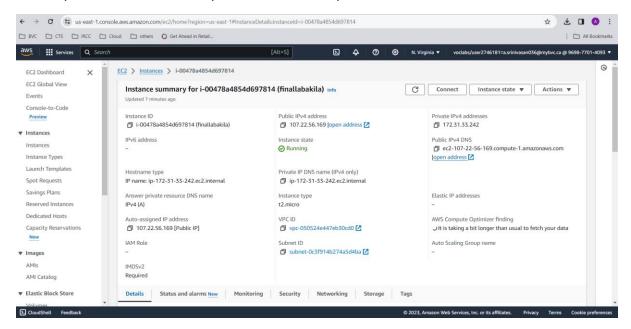
Create a folder and add the index.html. Also create a Dockerfile and add the respective commands to it.

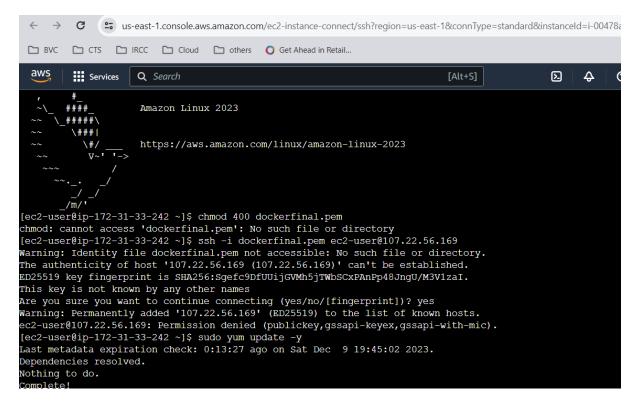


## Create the workflow by going to the Actions->search for docker->configure



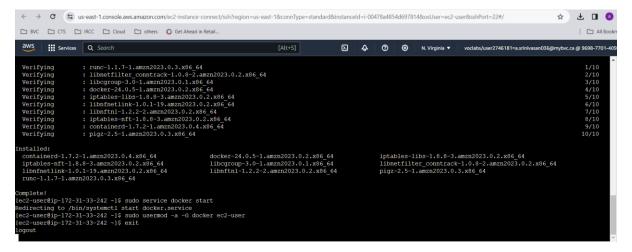
### Parallelly create the EC2 manually in the AWS academy. Once it is created, the connect it





## Now give the following commands:

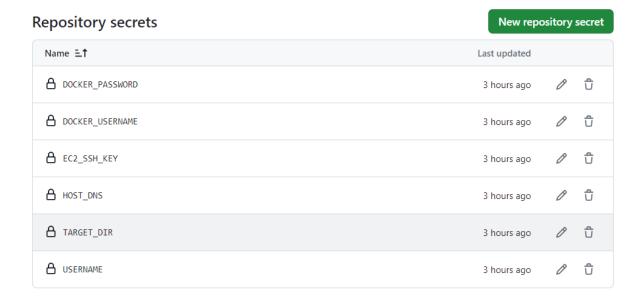
- Sudo yum update -y
- Sudo yum install -y docker
- Sudo service docker start
- Sudo usermod -a -G docker ec2-user



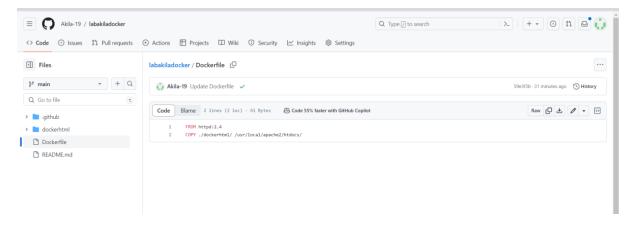
Post that create the repository secrets which we mentioned in the code.

These are the variables we are using in the yaml file.

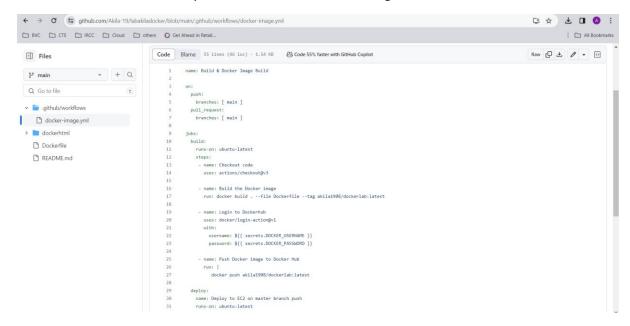
- DOCKER\_PASSWORD → your docker desktop password
- DOCKER\_USERNAME → your docker desktop username
- EC2\_SSH\_KEY → The .pem file contents which is downloaded while creating EC2
- HOST\_DNS → the public DNS IP address
- TARGET\_DIR → home( destination directory)
- USERNAME → ec2-user



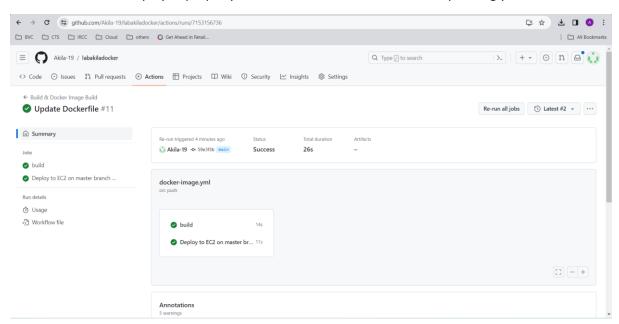
In the Dockerfile add these two lines. Httpd is the docker image and copy that from dockerhtml folder to the htdocs directory.



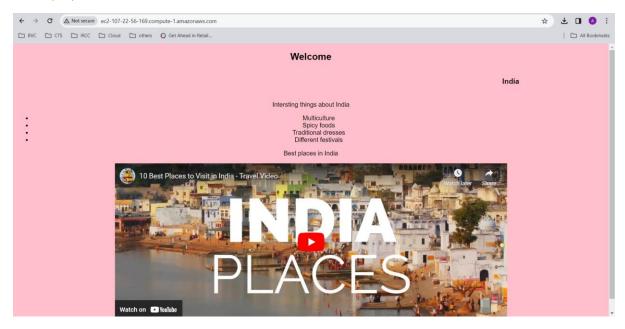
Now add the contents in the .yaml files and commits the changes



Check whether it is deployed properly or not in the tab actions and corresponding yml files.



Once its deployed successfully, then go the respective EC2 and click the ip address where you can see the deployed html here.



# **Reflections:**

When I started the lab my deployment is failed due to some errors in yml file. Then I have referred the yml file which is in the d2I then it worked fine.