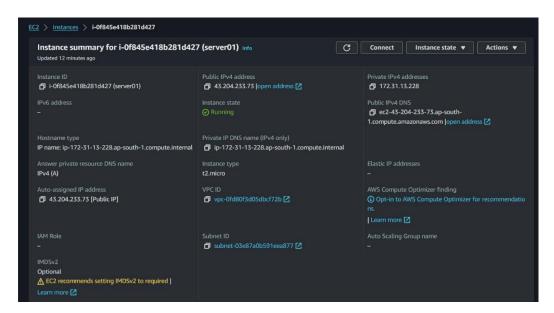
Objective: In this assignment, you will create a simple GitHub Actions workflow that builds a custom Docker image with a basic NGINX configuration, deploys it to an Amazon EC2 instance, and ensures that the container remains running even after an EC2 instance restart.

For the assignment, I am using this EC2 instance:



Steps:

1. Create a file named "nginx.conf"

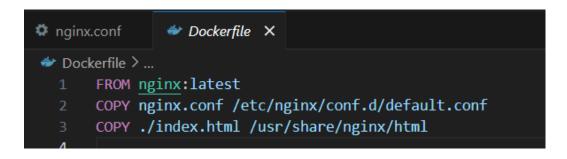
```
nginx.conf x
nginx.conf
server {
listen 80;
server_name localhost;

location / {
root /usr/share/nginx/html;
index index.html;
}
}
```

2. Create a file index.html

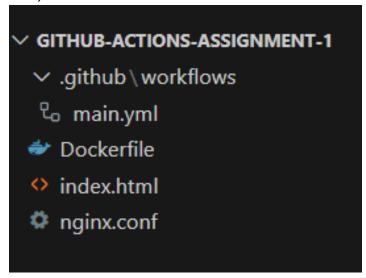
```
pindex.html > phtml > pbody > pb
```

3. Then, a Dockerfile

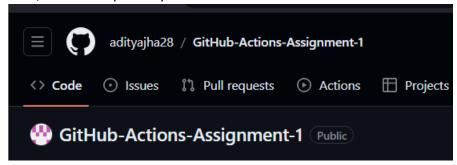


4. Create a folder .github , inside it create a folder workflows and in it create a file main.yml

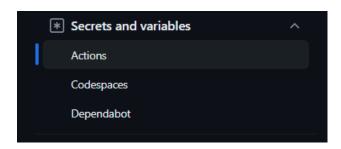
Now, the folder structure will look like:

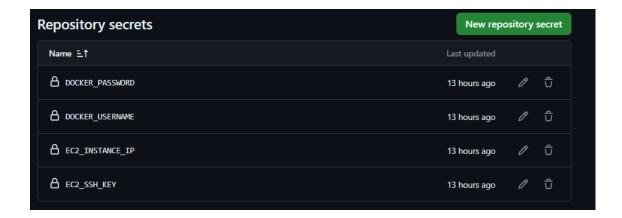


5. Now, create a repository

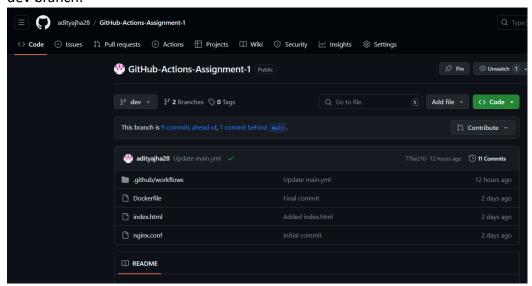


6. Add secrets in the repository according to the main.yml file requirement In order to add secrets go to settings then, secrets and variables after that click on "Actions".



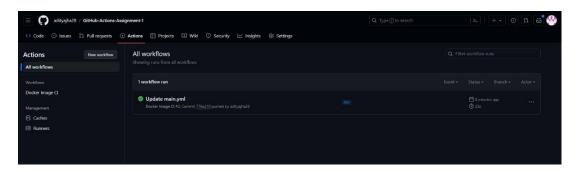


7. In the repository create a dev branch Push these files to dev branch dev branch:



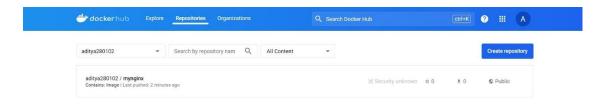
After pushing go to "Actions" and wait for the workflows to be completed.

8. After the completion of workflows:



Checkout the results:

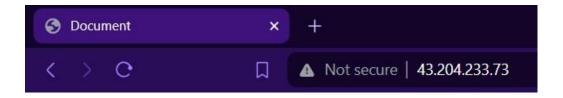
a. dockerhub:



b. EC2 instance:



c. Access this public IP http://43.204.233.73/



HELLO, I AM ADITYA