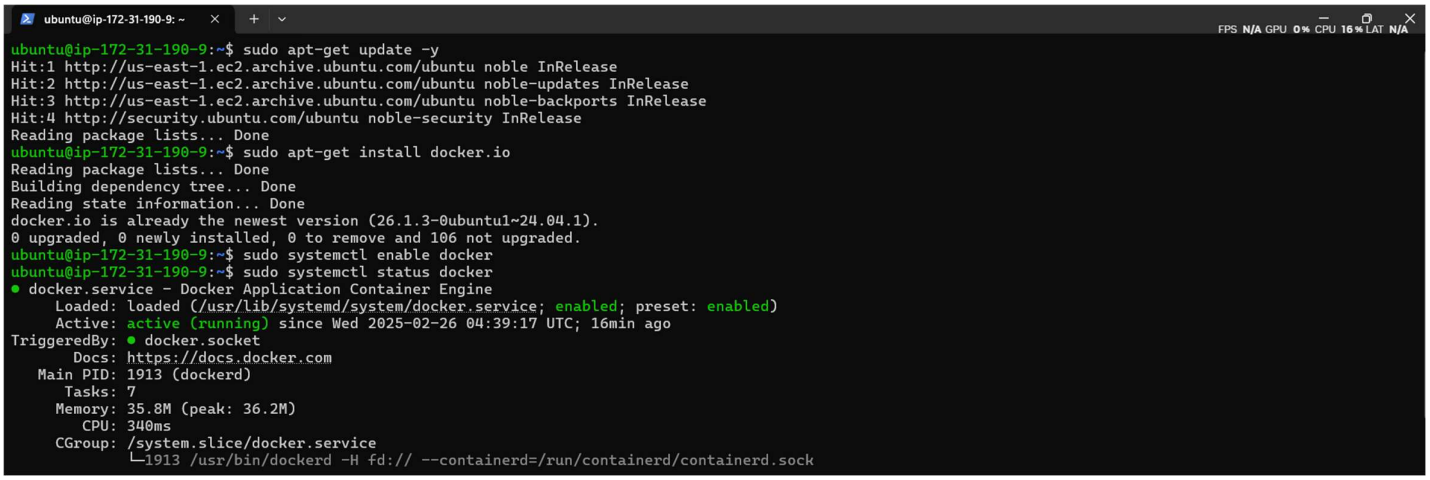
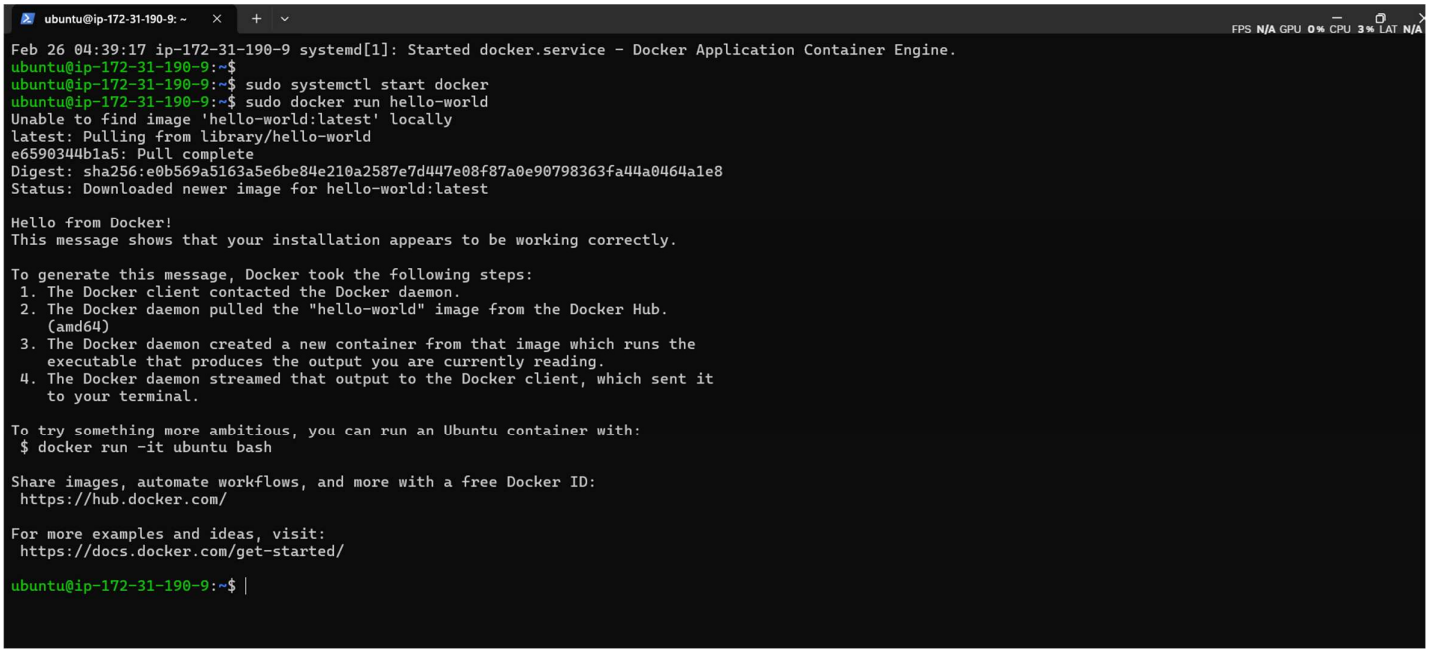
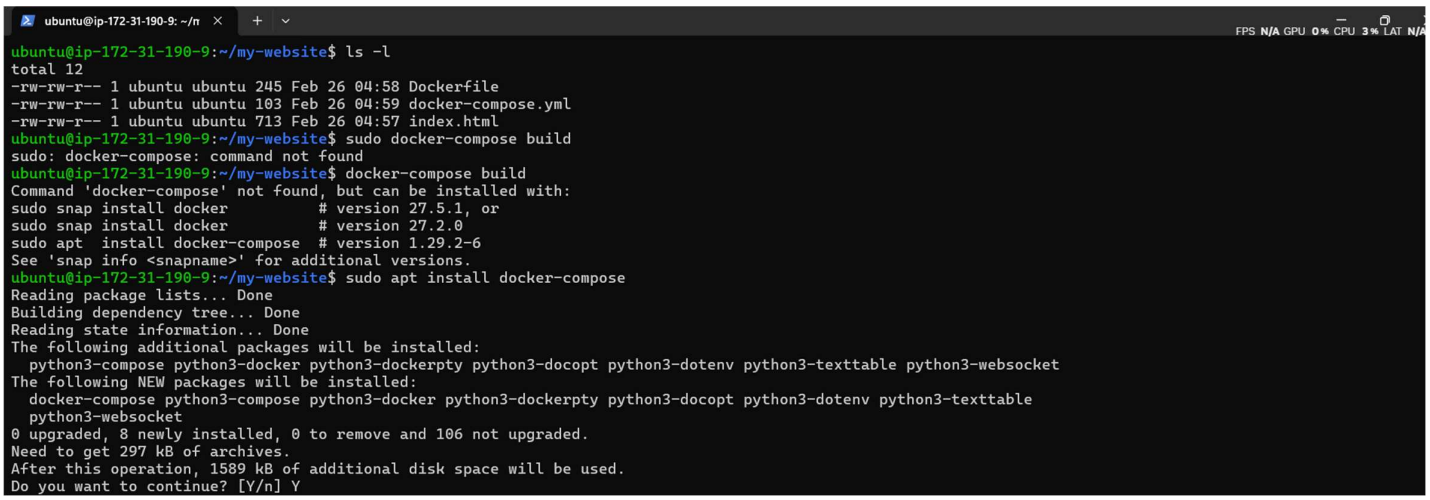




We launched an Ubuntu EC2 instance in AWS. We then updated the Ubuntu machine, installed Docker, enabled it, and checked the Docker status. To verify that Docker was running, we ran the hello-world command using the following commands:
sudo apt update
sudo apt install docker.io
sudo systemctl enable docker
sudo systemctl start docker
sudo systemctl status docker
docker run hello-world



Step 1: Created Project Structure using the following command
mkdir my-website - cd my-website

Step 2: Created index.html with your details with following details

```
<!DOCTYPE html>
<html>
<head>
  <title>My Details</title>
  <style>
    body { font-family: Arial, sans-serif; margin: 40px; }
    .container { max-width: 800px; margin: 0 auto; }
    h1 { color: #2c3e50; }
    .details { background: #f9f9f9; padding: 20px; border-radius: 8px; }
  </style>
</head>
<body>
  <div class="container">
    <h1>Personal Details</h1>
    <div class="details">
      <p><strong>Name:</strong> John Doe</p>
      <p><strong>Email:</strong> john.doe@example.com</p>
      <p><strong>Location:</strong> New York, USA</p>
      <p><strong>Skills:</strong> Docker, Web Development, DevOps</p>
    </div>
  </div>
</body>
</html>
```

Step 3: Created Dockerfile by following code

```
# Use official Nginx image
FROM nginx:alpine

# Copy custom HTML file to Nginx default directory
COPY index.html /usr/share/nginx/html/index.html

# Expose port 80 for web traffic
EXPOSE 80

# Nginx starts automatically by default in base image
```

Step 4: Created docker-compose.yml

```
version: '3.8'

services:
  web:
    build: .
    ports:
      - "8080:80"
    restart: unless-stopped
```

Step 5: installed the docker-compose using the command sudo apt install docker-compose

---

```
ubuntu@ip-172-31-190-9:~/my-website$ sudo docker-compose build
Building web
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
            Install the buildx component to build images with BuildKit:
            https://docs.docker.com/go/buildx/

Sending build context to Docker daemon  4.608kB
Step 1/3 : FROM nginx:alpine
 ---> 1ff4bb4faebc
Step 2/3 : COPY index.html /usr/share/nginx/html/index.html
 ---> Using cache
 ---> 5c0978b2281e
Step 3/3 : EXPOSE 80
 ---> Using cache
 ---> 2eafa9f306ab
Successfully built 2eafa9f306ab
Successfully tagged my-website_web:latest
ubuntu@ip-172-31-190-9:~/my-website$ sudo docker-compose up -d
Creating network "my-website_default" with the default driver
Creating my-website_web_1 ... done
ubuntu@ip-172-31-190-9:~/my-website$ sudo docker-compose ps
      Name                     Command               State                  Ports
-------------------------------------------------------------------------------------------------
my-website_web_1   /docker-entrypoint.sh ngin ...   Up      0.0.0.0:8080->80/tcp,:::8080->80/tcp
ubuntu@ip-172-31-190-9:~/my-website$
```

Step 6: created Build and Run by executing the following commands

Build the Docker image

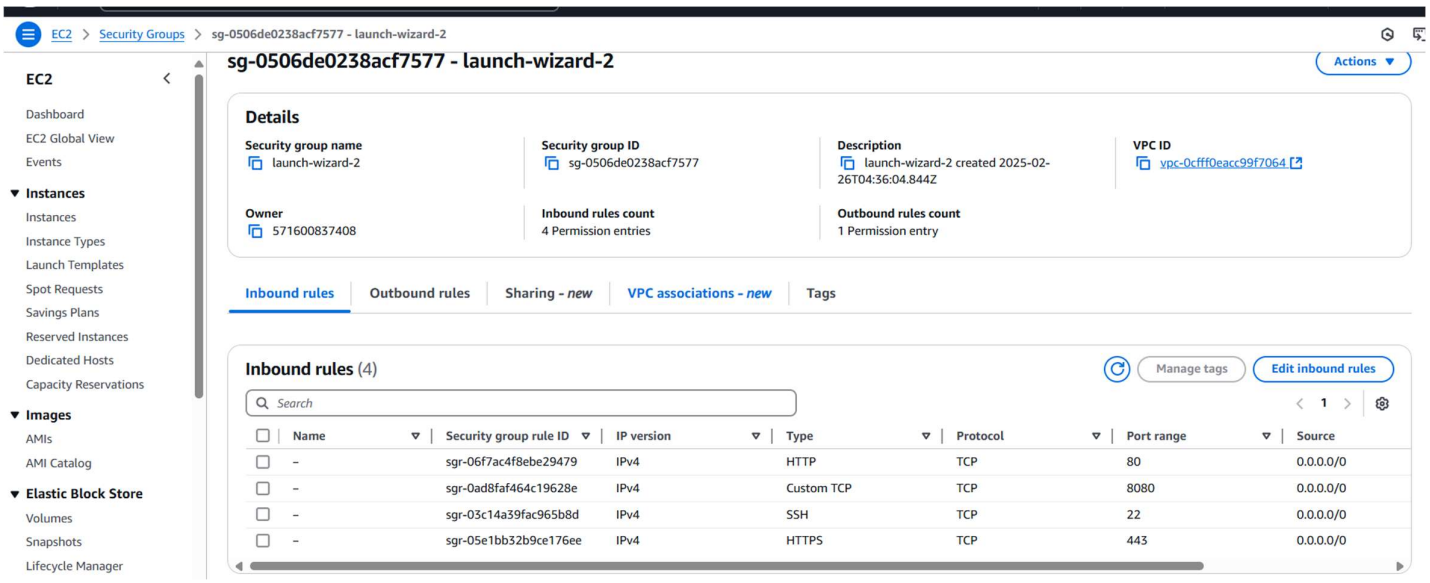
docker-compose build

Start the container

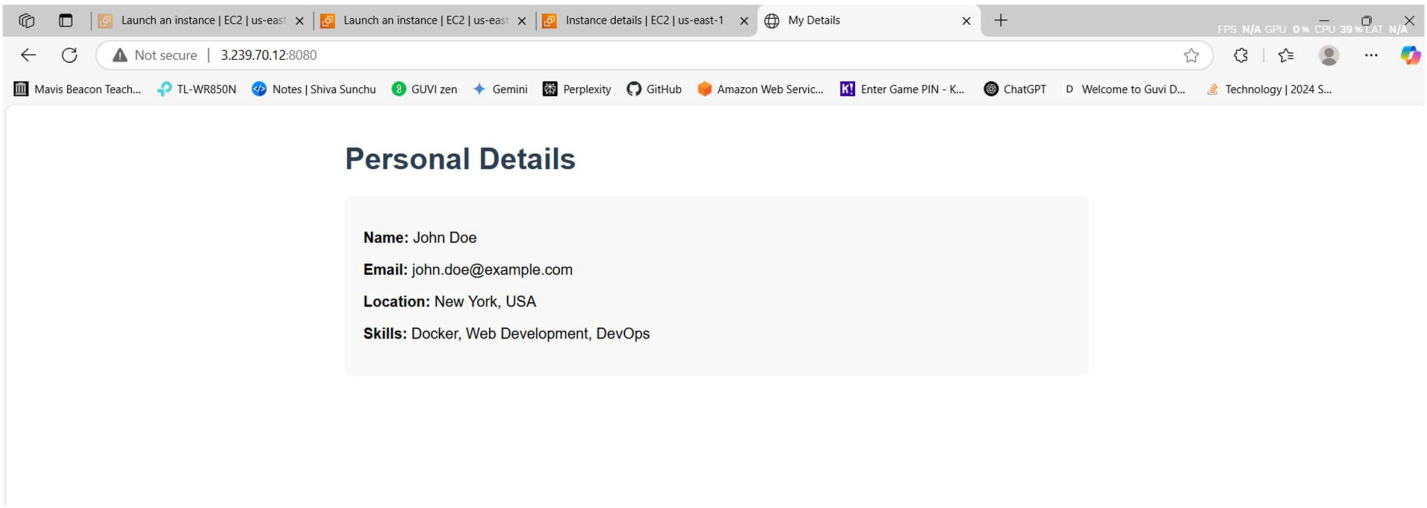
docker-compose up -d

Check running containers

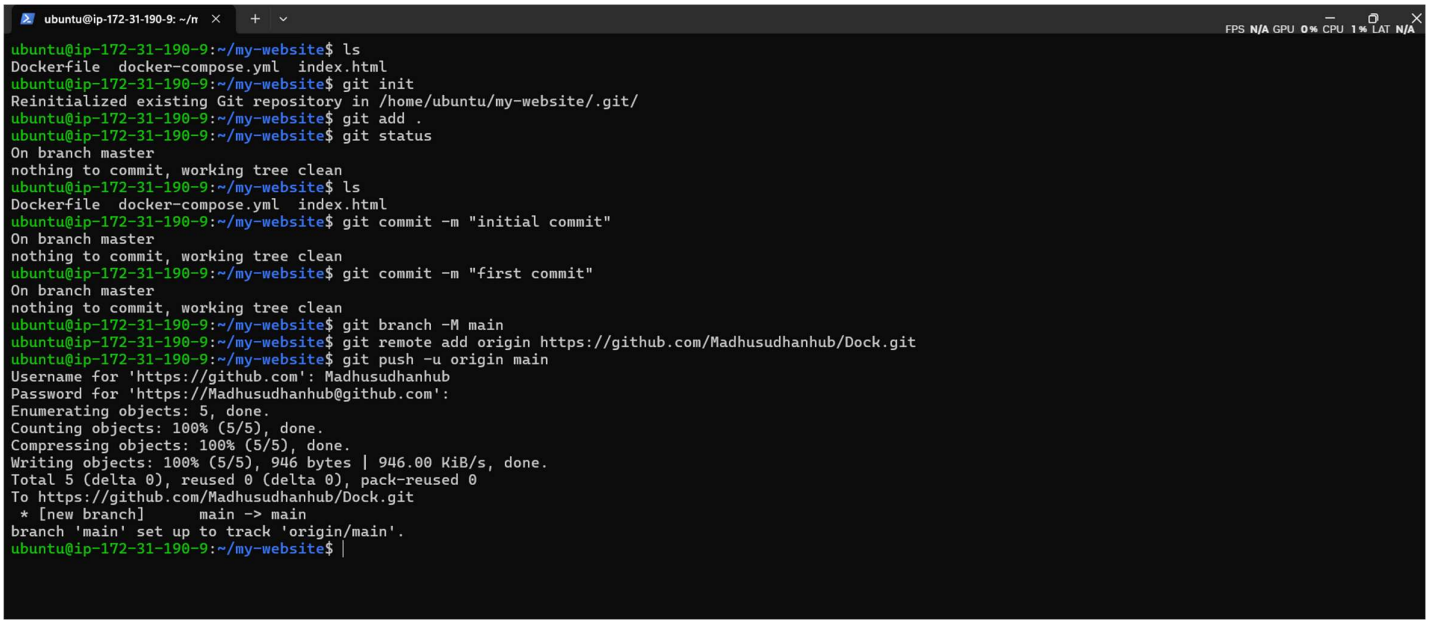
docker-compose ps

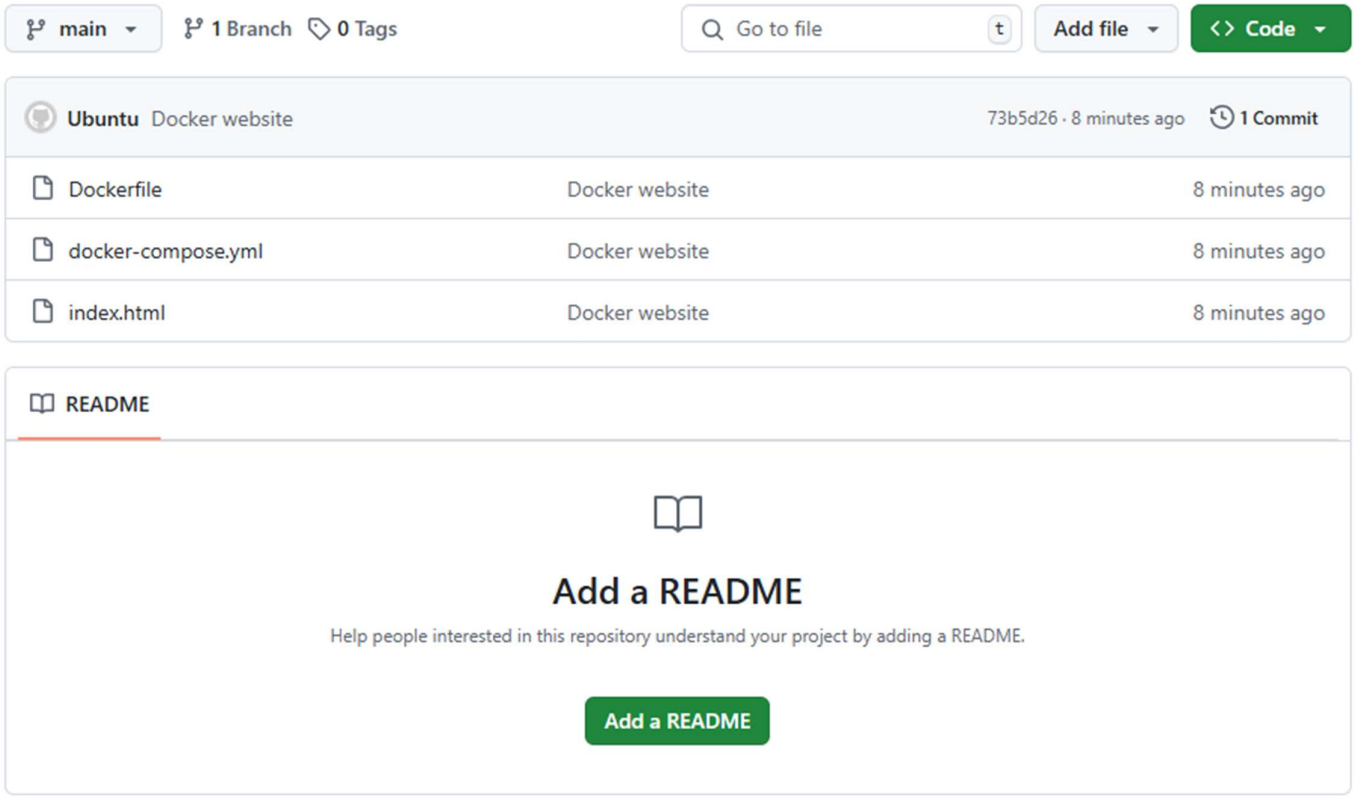


Step 7: edited the Inbound rules and added our custom port 8080



Step 8 : Access Your Website with following IP address
http://3.239.70.12:8080/





Final step: pushed all the documents to GitHub by using the following commands.