Docker Task -3

Task Description:

Create a custom docker image for nginx and deploy it using docker compose, where the volume bind mount should be at /var/opt/nginx location. Push the created custom docker image to your docker-hub.

➔ Step 1: Create a project structure and inside index.html add custom page.

```
ubuntu@ip-172-31-42-197:~$ mkdir nginx-docker
ubuntu@ip-172-31-42-197:~$ cd nginx-docker/
ubuntu@ip-172-31-42-197:~/nginx-docker$ mkdir html
ubuntu@ip-172-31-42-197:~/nginx-docker$ nano html/index.html
```

```html
<!DOCTYPE html>
<html>
  <head>
    <title>My Custom Nginx</title>
  </head>
  <body>
    <h1>Hello, I am Pranit 🚀</h1>
    <p>This is my custom Nginx container!</p>
  </body>
</html>
```

➔ Step 2: Create a dockerfile

```
ubuntu@ip-172-31-42-197:~/nginx-docker$ nano Dockerfile
```

```dockerfile
# Use official Nginx as base
FROM nginx:latest


# Copy custom HTML into Nginx document root
COPY html /usr/share/nginx/html


# Expose port 80
EXPOSE 80
```
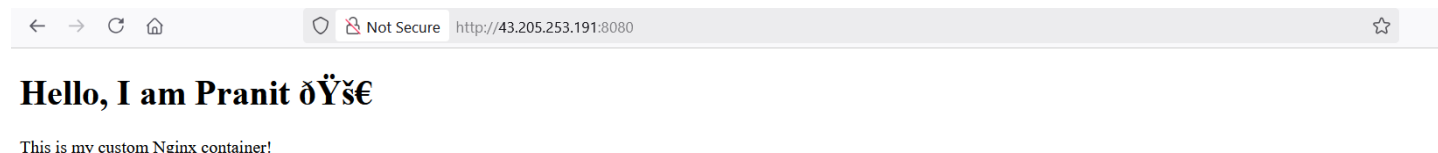
➔ Step 3: create docker-compose.yml

```
ubuntu@ip-172-31-42-197:~/nginx-docker$ nano docker-compose.yml
```

```
version: "3.8"
services:
  web:
    build: .
    container_name: my-custom-nginx
    ports:
      - "8080:80"
    volumes:
      - ./html:/var/opt/nginx
```

➔ Step 4: Build, Run and check if your custom page is running on the port 8080

```
ubuntu@ip-172-31-42-197:~/nginx-docker$ docker-compose up --build -d
Creating network "nginx-docker_default" with the default driver
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:latest
latest: Pulling from library/nginx
b1badc6e5066: Pull complete
a2da0c0f2353: Pull complete
e5d9bb0b85cc: Pull complete
14a859b5ba24: Pull complete
716cdf61af59: Pull complete
14e422fd20a0: Pull complete
c3741b707ce6: Pull complete
Digest: sha256:33e0bbc7ca9ecf108140af6288c7c9d1ecc77548cbfd3952fd8466a75edefe57
Status: Downloaded newer image for nginx:latest
```

← → C ⌂ 🛡 Not Secure http://43.205.253.191:8080 ☆

Hello, I am Pranit ðŸš€

This is my custom Nginx container!

➔ Step 5: Tag and push to docker-hub

```
ubuntu@ip-172-31-42-197:~/nginx-docker$ docker tag nginx-docker_web:latest pranit162/my-nginx:latest
ubuntu@ip-172-31-42-197:~/nginx-docker$ docker push pranit162/my-nginx:latest
The push refers to repository [docker.io/pranit162/my-nginx]
d2b4a88490ae: Pushed
45c2d10807fb: Pushed
129b375526fc: Pushed
a0e5983a25a5: Pushed
2988603ca264: Pushed
39bc11fab520: Pushed
dab69e9f41e9: Pushed
eb5f13bce993: Pushed
latest: digest: sha256:c9b248185f81c64d96565fe775cf1c8b6771df39351d355964c9591395047d88 size: 1986
ubuntu@ip-172-31-42-197:~/nginx-docker$ ▯
```

P

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IMAGE

pranit162/my-nginx
pranit162

Pulls	0
Stars	0
Last Updated	less than a minute