

## 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.

### Techstacks needs to be used :

- AWS EC2
- Docker
- Docker Compose

### Step1

- Create directory.
  - project2\
    - dockerfile
    - docker-compose.yml
    - index.html
    - data\

 Select ec2-user@ip-172-31-31-52:~/project2

```
[ec2-user@ip-172-31-31-52 project2]$ ll
total 12
-rw-r--r--. 1 ec2-user ec2-user 136 Nov 30 13:27 docker-compose.yml
-rw-r--r--. 1 ec2-user ec2-user  56 Nov 30 11:29 dockerfile
-rw-r--r--. 1 ec2-user ec2-user 391 Nov 30 11:26 index.html
[ec2-user@ip-172-31-31-52 project2]$
```

## Step2

- create dockerfile.
- build docker image
  - `sudo docker build . -t satthya-nginx:nginx`

```
ec2-user@ip-172-31-31-52:~/project2
[ec2-user@ip-172-31-31-52 project2]$ ll
total 12
-rw-r--r-- 1 ec2-user ec2-user 117 Nov 30 12:26 docker-compose.yml
-rw-r--r-- 1 ec2-user ec2-user 56 Nov 30 11:29 dockerfile
-rw-r--r-- 1 ec2-user ec2-user 391 Nov 30 11:26 index.html
[ec2-user@ip-172-31-31-52 project2]$ sudo docker build . -t satthya-nginx:nginx
[+] Building 0.9s (7/7) FINISHED
=> [internal] load build definition from dockerfile
=> => transferring dockerfile: 152B
=> [internal] load metadata for docker.io/library/nginx:latest
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build context
=> => transferring context: 91B
=> [1/2] FROM docker.io/library/nginx:latest@sha256:0c86ddac19f2ce4fd716ac58c0fd87bf69bfd4edabfd6971fb885bafd12a00b
=> CACHED [2/2] COPY index.html /usr/share/nginx/html
=> exporting to image
=> => exporting layers
=> => writing image sha256:914a1309aed51ec069cabf8f8dfe17f2862925925da4cfc7521a8c59a6f62de4
=> => naming to docker.io/library/satthya-nginx:nginx
[ec2-user@ip-172-31-31-52 project2]$ sudo docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
satthya-nginx       nginx          914a1309aed5   2 hours ago    192MB
[ec2-user@ip-172-31-31-52 project2]$
```

## Step3

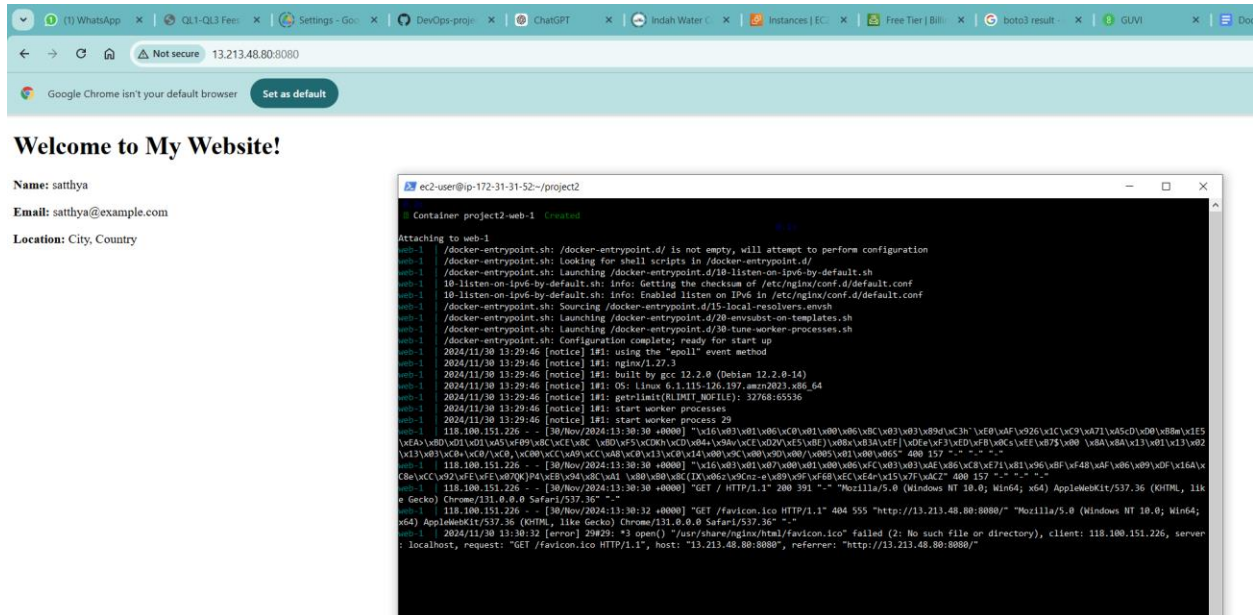
- Create docker-compose.yml

```
ec2-user@ip-172-31-31-52:~/project2
[ec2-user@ip-172-31-31-52 project2]$ vi docker-compose.yml
[ec2-user@ip-172-31-31-52 project2]$ [ec2-user@ip-172-31-31-52 project2]$ cat docker-compose.yml
version: '3.8'

services:
  web:
    image: satthya-nginx:nginx
    ports:
      - "8080:80"
    volumes:
      - /var/opt/nginx:/var/opt/nginx
[ec2-user@ip-172-31-31-52 project2]$
```

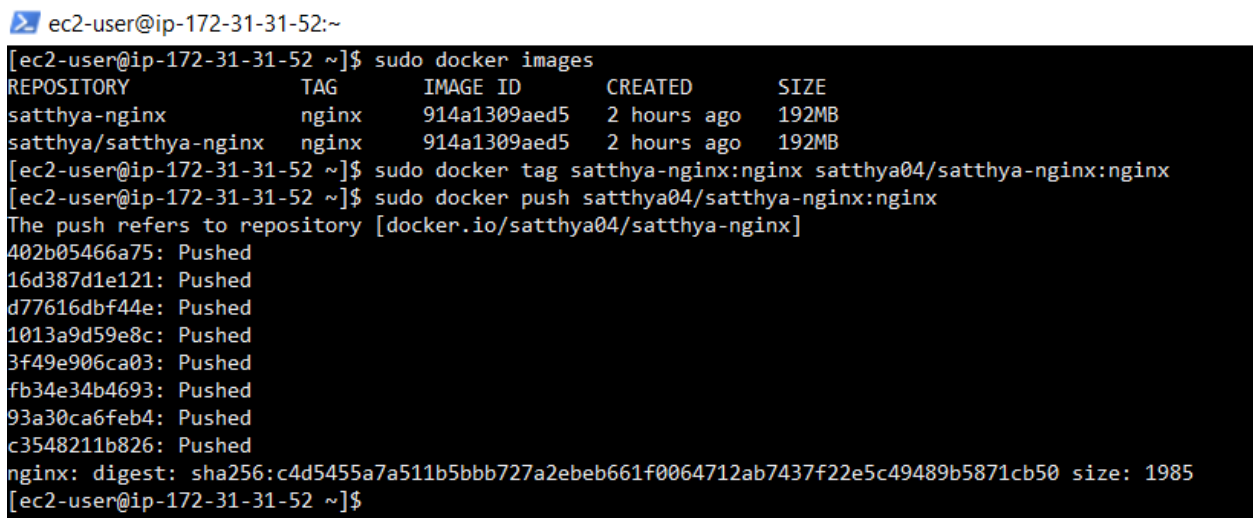
## Step4

- Deploy the image using docker-compose.yml
  - docker-compose up



## Step5

- push the image to docker -hub
  - sudo docker login
  - sudo docker push satthya04/satthya-nginx



sathya04

Search by repository name

All content

Create a repository

Name	Last Pushed	Contains	Visibility	Scout
sathya04/sathya-nginx	in 3 minutes	IMAGE	Public	Inactive
sathya04/my-trial-app	3 days ago	IMAGE	Public	Inactive

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