EXPERIMENT 5

AIM: Working with Dockerfile to Build and Push Docker Image

Steps to Complete:

1. Create following Dockerfile

```
Dockerfile

1  #Create following Dockerfile

2  FROM alpine

3  MAINTAINER SUDIPT

4  RUN apk update

5  RUN apk add nodejs

6  RUN mkdir /app

7  COPY index.js /app

8  WORKDIR /app

9  RUN node index.js

10
```

2. Now we have dockerized the app, we will Build image from Dockerfile.

```
docker build -t myimage:0.1 .
```

```
(base) vanshika@VANSHIKAs-MacBook-Air ACO % docker build -t myimage:0.1 .

[+] Building 9.7s (12/12) FINISHED

>> [internal] load build definition from Dockerfile

>> => transferring dockerfile: 243B

>> [internal] load .dockerignore

>> transferring context: 2B

>> [internal] load metadata for docker.io/library/alpine:latest

>> CACHED [1/7] FROM docker.io/library/alpine

>> [internal] load build context

>> transferring context: 29B

>> [2/7] RUN apk update

>> [2/7] RUN apk update

>> [3/7] RUN apk add nodejs

>> [3/7] RUN apk add nodejs

>> [5/7] COPY index.js /app

>> [6/7] WORKDIR /app

>> [6/7] WORKDIR /app

>> (0.05

>> [7/7] RUN node index.js

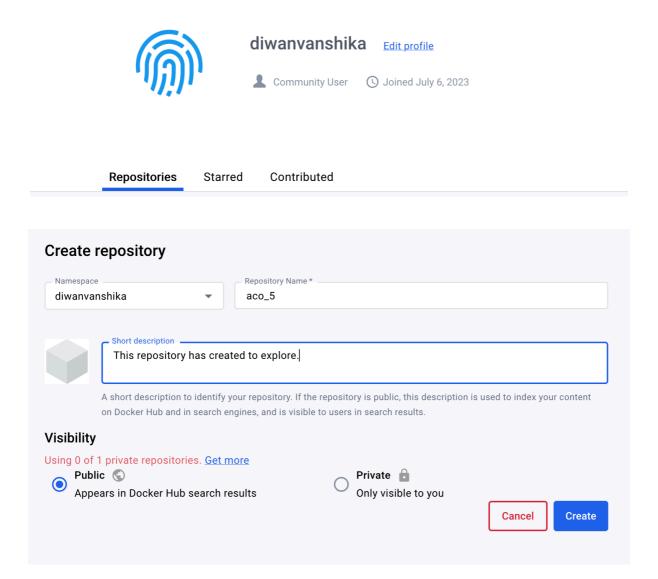
>> exporting to image

>> exporting to image

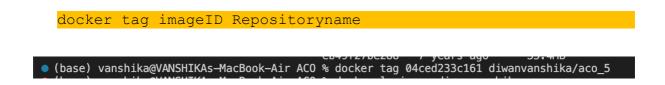
>> => writing image sha256:04ced233c1615ff674299c14e38dac3049058757054de978cf47daeded7b7b91

>> => naming to docker.io/library/myimage:0.1
```

3. Create account on Dockerhub and create a repository in it.



4. Tag the recently created image using following command.



5. Login to Dockerhub from console using following command.

docker Login

(base) vanshika@VANSHIKAs-MacBook-Air ACO % docker login

Authenticating with existing credentials... Login Succeeded

6. Now push the image on Dockerhub using following command.

```
docker push Repositoryname
```

```
(base) vanshika@VANSHIKAs-MacBook-Air ACO % docker push diwanvanshika/aco 5
Using default tag: latest
The push refers to repository [docker.io/diwanvanshika/aco_5] f3d692204a6b: Pushed 5f70bf18a086: Pushed
64ffdc148181: Pushed
3c2597658b61: Pushed
4f900eaede2c: Pushed
526404c401b2: Pushed
0faf9b67be60: Pushed
latest: digest: sha256:3f7c203ffeaef8237c9e89b46918c48e44937535f35da010f77676d58ce9737c size: 1777
(base) vanshika@VANSHIKAs-MacBook-Air ACO %
```

7. Pull and Run the container of your deployed image on docker hub.

```
Docker run -d image name
```

- (base) vanshika@VANSHIKAs-MacBook-Air ACO % docker run -d myimage:0.1 edadabc19ff375f069b1d4c9a61157f9e0cacc8cad2bcb62dbc9f85c0ea34a4b
- (base) vanshika@VANSHIKAs-MacBook-Air ACO %