

# UNIVERSITY OF PETROLEUM & ENERGY STUDIES Dehradun

## **ACO LAB**

**NAME-YADRISHI DIXIT** 

**BRANCH- COMPUTER SCIENCE ENGINEERING** 

**BATCH- B-4 DEVOPS** 

SAP ID- 500097959

**ROLL NO- R2142211468** 

**SUBMITTED TO- Dr. Hitesh Kumar Sharma** 

### **EXPERIMENT-5**

## **AIM**: Working with Dockerfile to Build and Push Docker Image

#### **Steps to Complete:**

#### 1. Create following Dockerfile

```
FROM alpine

MAINTAINER SUDIPT

RUN apk update

RUN apk add nodejs

RUN mkdir /app

COPY index.js /app

WORKDIR /app

RUN node index.js
```

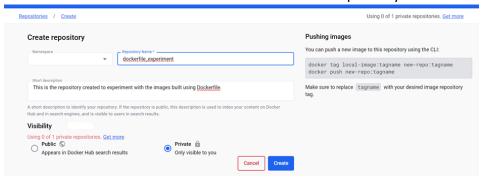
```
Dockerfile > ...

1 FROM alpine
2 MAINTAINER SUDIPT
3
4 RUN apk update && \
5 apk add --no-cache nodejs npm
6
7 WORKDIR /app
8
9 COPY index.js /app
10
11 CMD ["node", "index.js"]
12
```

2. Now we have dockerized the app, we will Build image from Dockerfile. "docker build -t myimage:1.0.0."



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



4. Tag the recently created image using following command.

" docker tag imageID Repositoryname"

```
91983@DELL MINGW64 ~/OneDrive/Desktop/SEM5/ACO-LAB-2021-25(Local)/my-web-app (main) $ docker tag f7f74f83583b dockerfile_experiment
```

5. Login to Dockerhub from console using following command.

" docker login "

```
91983@DELL MINGW64 ~/OneDrive/Desktop/SEM5/ACO-LAB-2021-25(Local)/my-web-app (main) $ docker login Authenticating with existing credentials... Login Succeeded
```

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

<sup>&</sup>quot; docker push RepositoryName"

```
91983@DELL MINGW64 ~/OneDrive/Desktop/SEM5/ACO-LAB-2021-25(Local)/my-web-app (main)
$ docker push swati1010/dockerfile_experiment
Using default tag: latest
The push refers to repository [docker.io/swati1010/dockerfile_experiment]
ef299d924bbd: Preparing
7ede2d9f365: Preparing
a48b037fba41: Preparing
cc2447e1835a: Preparing
denied: requested access to the resource is denied
```