

UNIVERSITY OF PETROLEUM & ENERGY STUDIES

Dehradun

ACO LAB

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Batch- B-4

Course- Btech Devops

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EXPERIMENT-5

<u>AIM</u>: Working with Dockerfile to Build and Push Docker Image

1. Create following Dockerfile

FROMalpine

MAINTAINERSUDIPT

RUN apk update

RUN apk add nodejs RUN

mkdir /app

COPY index.js/app

WORKDIR /app

RUN node index.js

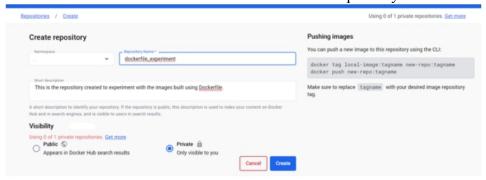
```
Dockerfile > ...

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.

"docker push RepositoryName"