

# UNIVERSITY OF PETROLEUM & ENERGY STUDIES Dehradun

## **ACO LAB**

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**BRANCH- COMPUTER SCIENCE ENGINEERING** 

**BATCH- B-4 DEVOPS** 

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## **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"]
```

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

<sup>&</sup>quot; docker build -t myimage: 1.0.0 ."

```
91983@DELL MINGM64 -/OneDrive/Desktop/SBY5/ACO-LAB-2021-25(Local)/my-web-app (main)

$ docker build -t myimage:1.0.0 .

{} Building 65.6s (9/9) FINISHED

> [internal] load build definition from Dockerfile

>> transferring dockerfile: 1958

0.08

>> transferring context: 1258

>> transferring context: 1258

>> transferring context: 1258

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

2.5s

>> CACHED [1/4] FROM docker.io/library/alpine@sha256:eece025e432126ce23f223450a0326fbebde39cdf496a85d8c016293fc851978

>> tinternal] load build context

>> transferring context: 298

>| [internal] load build context

0.08

>| [2/4] RUN apk update & apk add --no-cache nodejs npm

62.5s

| [3/4] MONROIN / App

0.08

>| [4/4] COPY index.js / app

0.08

>> exporting to image

0.5s

>> perporting to image

0.5s

>> mying image sha256:f7f74f83583bee05f18b14c410ffce181180833039f324df89940bb7f6957957

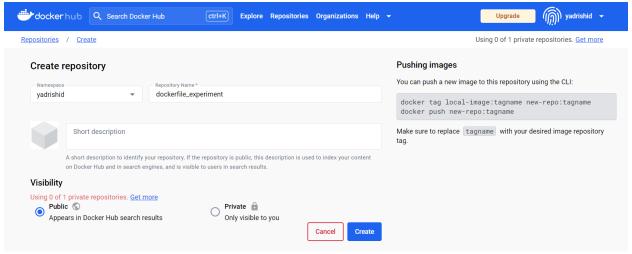
0.08

>> naming to docker.io/library/myimage:1.0.0

What's Next?

View a summary of image vulnerabilities and recommendations → docker scout quickview
```

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"

```
on on secret. ENREADER -/OneOprive/Desktop/SEMS/ACO-LAB-2021-25(Local)/my-web-app (main) # dockor push swartisin0/dockerfile_experiment Using default tag: latest the push refers to repository [docker.io/swatil010/dockerfile_experiment] refersodo2abbd: Preparing rede2d9ff365: Preparing ad8b037fba1: Preparing cc24/261835: Preparing to the recovere is dealed.
```