

Application Containerization And Orchestration Lab

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Batch - DevOps B4

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

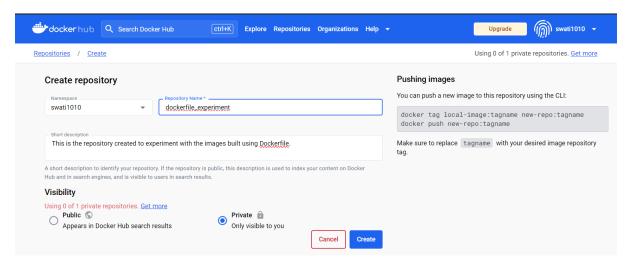
9 COPY index.js /app
10

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.

"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
7ede2d9ff365: Preparing
a48b037fba41: Preparing
cc2447e1835a: Preparing
denied: requested access to the resource is denied
```