

# Application Containerization And Orchestration Lab

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# **Submitted to**

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### **EXPERIMENT 5**

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

## **Steps to Complete:**

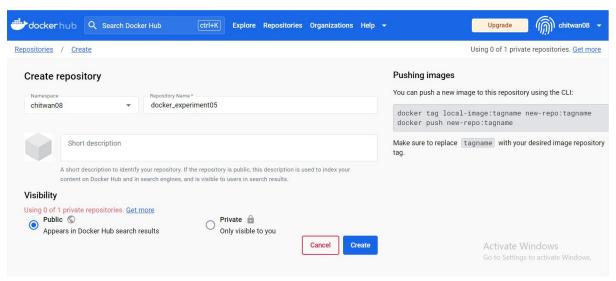
1. Create following Dockerfile

```
FROM alpine
MAINTAINER SUDIPT
RUN apk update
RUN apk add nodejs
RUN mkdir /app
COPY index.js /app
WORKDIR /app
RUN node index.js
```

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

```
docker build -t myimage:1.0.1 .
```

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



4. Tag the recently created image using following command.

```
docker_tag_imageID Repositoryname
PS C:\Users\Vidyarthi\Desktop\ACO-LAB-2021-25> docker tag f08efdd77cc28309addd799d09c20ca4f948eb3695baf46e44e63dc0da5284ae docker_experiment0
5
```

Login to Dockerhub from console using following command.

```
docker Login

PS C:\Users\Vidyarthi\Desktop\ACO-LAB-2021-25> docker login
Authenticating with existing credentials...
Login Succeeded

Logging in with your password grants your terminal complete access to your account.
For better security, log in with a limited-privilege personal access token. Learn more at https://docs.do
PS C:\Users\Vidyarthi\Desktop\ACO-LAB-2021-25> ■
```

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

```
docker push Repositoryname
```

```
PS C:\Users\Vidyarthi\Desktop\ACO-LAB-2021-25> docker tag docker_experiment05 chitwan08/docker_experiment05
PS C:\Users\Vidyarthi\Desktop\ACO-LAB-2021-25> docker push chitwan08/docker_experiment05
Using default tag: latest
The push refers to repository [docker.io/chitwan08/docker_experiment05]
5f70bf18a086: Pushed
4517100d5786: Pushed
a87599a6e777: Pushed
455cda178e8b: Pushed
9ad14b0cb750: Pushed
9ad14b0cb750: Pushed
9fe9a137fd00: Pushed
Alatest: digest: sha256:957a346e175dc813d84c0ff7b2089f7047fbb5818b17b12c1038086d413dfdc7 size: 1571
PS C:\Users\Vidyarthi\Desktop\ACO-LAB-2021-25>
```

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

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

PS C:\Users\Vidyarthi\Desktop\ACO-LAB-2021-25> docker run -d chitwan08/docker\_experiment05
ecd11475c740f867d91abab4970ebaa80e8aef88c5c12d75bd01ca9898b0d3e2