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

FROM alpine

MAINTAINER SUDIPT

RUN apk update

RUN apk add nodejs

RUN mkdir /app

COPY index.js /app

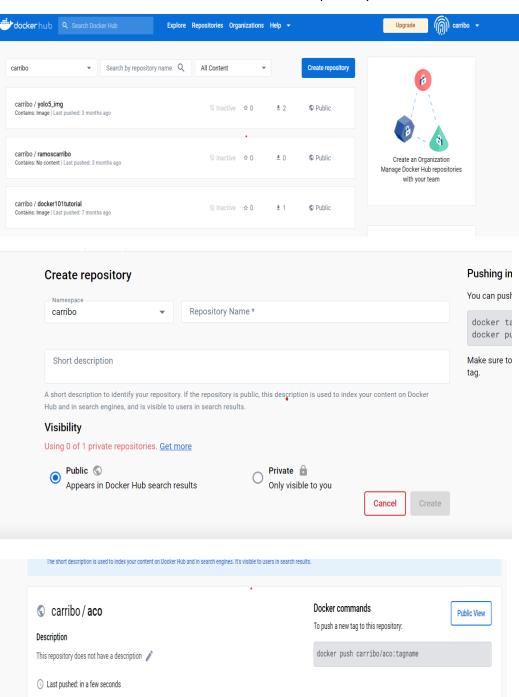
WORKDIR /app

RUN node index.js

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

docker build -t myimage: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\hp\Desktop\tushar_repo> docker images
                                            IMAGE ID
REPOSITORY
                                                          CREATED
                                   TAG
                                                                         SIZE
                                            59b8fe398e00
                                                          7 minutes ago
t4r_image
                                   latest
                                                                         61MB
img
                                            528ebf75f7c6
                                                                         168MB
                                   latest
                                                          12 hours ago
new-image
                                   latest
                                            1b791b120d8d
                                                          12 hours ago
                                                                         168MB
                                                         12 hours ago
                                                                         168MB
my-image
                                   0.1
                                            ee26eedad720
                                            e579380d4317
                                                                         138MB
redis
                                   latest
                                                          2 days ago
                                            8ca4688f4f35
                                                                         7.34MB
alpine
                                   latest
                                                          3 weeks ago
                                                                         35.4MB
katacoda/redis-node-docker-example
                                  latest
                                            eb49f27be288
                                                        7 years ago
PS C:\Users\hp\Desktop\tushar_repo> docker tag 59b8fe398e00 carribo/aco
```

5. Login to Dockerhub from console using following command.

```
docker Login

PS C:\Users\hp\Desktop\tushar_repo> docker login

Authenticating with existing credentials...

Login Succeeded
```

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

docker push Repositoryname

```
PS C:\Users\hp\Desktop\tushar_repo> docker push carribo/aco
Using default tag: latest
The push refers to repository [docker.io/carribo/aco]
4bfa721705e1: Pushed
5f70bf18a086: Mounted from katacoda/redis-node-docker-example
065a1949a594: Pushed
204d453bc192: Pushed
3bff3a7ed586: Pushed
34337c8596bf: Pushed
cc2447e1835a: Mounted from library/alpine
latest: digest: sha256:1d49e3fe7f7e3a0eb77158e1d0f343258c2e9db4d04977887cafdadec4c04aa2 size: 1777
```

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

Docker run -d image name

```
PS C:\Users\hp\Desktop\tushar_repo> docker run -d t4r_image 5346bebf2a1d94e417e97c57718f2b7b7be1c2f0e28f0cd07d34bda9c1e6b1bb PS C:\Users\hp\Desktop\tushar_repo> |
```