

Name: Shweta Singh
Sap Id: 500098159
Course & Batch: Btech CSE(DevOps)-B4

Submitted to: Dr Hitesh Kumar Sharma

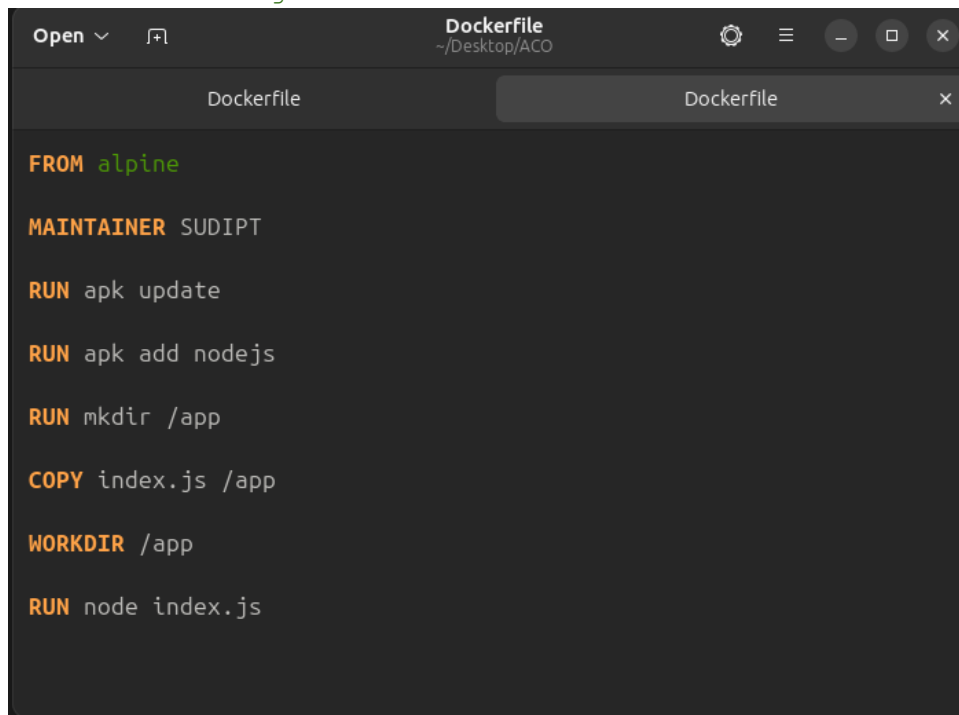
EXPERIMENT 5

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
```

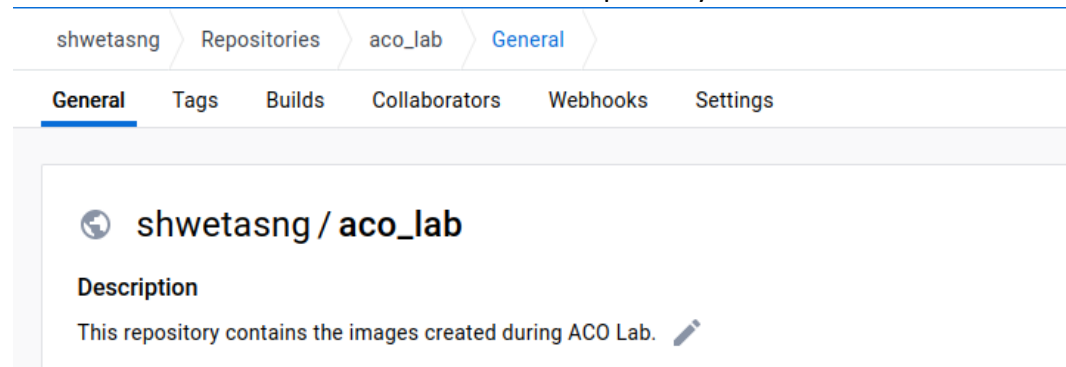


2. Now we have dockerized the app, we will Build image from Dockerfile.

```
docker build -t myimage:0.1 .
```

```
pavilion@shweta:~/Desktop/ACO$ docker build -t myimage:0.1 .
[+] Building 0.4s (9/11)                                docker:default
=> [internal] load build definition from Dockerfile      0.0s
=> => transferring dockerfile: 191B                     0.0s
=> [internal] load .dockerignore                       0.0s
=> => transferring context: 2B                           0.0s
=> [internal] load metadata for docker.io/library/alpine:latest 0.0s
=> [internal] load build context                       0.0s
=> => transferring context: 2B                           0.0s
=> [1/7] FROM docker.io/library/alpine                0.0s
=> CANCELED [2/7] RUN apk update                      0.4s
=> CACHED [3/7] RUN apk add nodejs                    0.0s
=> CACHED [4/7] RUN mkdir /app                        0.0s
=> ERROR [5/7] COPY index.js /app                     0.0s
-----
> [5/7] COPY index.js /app:
-----
Dockerfile:11
-----
 9 |     RUN mkdir /app
10 |
11 | >>> COPY index.js /app
12 |
13 |     WORKDIR /app
-----
ERROR: failed to solve: failed to compute cache key: failed to calculate checksum of ref 050edaa4-4995-47bb-aa84-7d0e3cbe03a3::rahwlfupn9kb2i9w0ei7vcj8n: "/index.js": not found
pavilion@shweta:~/Desktop/ACO$
```

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



4. Tag the recently created image using following command.

```
docker tag imageID Repositoryname
```

5. Login to Dockerhub from console using following command.

```
docker Login
• pavilion@shweta:~/Desktop/ACO/ACO_LAB$ docker login
  Authenticating with existing credentials...
  Login Succeeded
```

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

```
docker push Repositoryname
```

```

pavilion@shweta:~/Desktop/ACO/ACO_LAB$ docker tag 4899f28fb938 shwetasing/aco_lab
pavilion@shweta:~/Desktop/ACO/ACO_LAB$ docker push shwetasing/aco_lab
Using default tag: latest
The push refers to repository [docker.io/shwetasing/aco_lab]
393b3e87cf9d: Pushed
cc2447e1835a: Pushed
latest: digest: sha256:64332ec950f90eff75596f6bf7d7dc5a2dadf062f9759ec15de5f9a0c9087388 size: 734
pavilion@shweta:~/Desktop/ACO/ACO_LAB$

```

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

`Docker run -d image_name`

```

pavilion@shweta:~/Desktop/ACO/ACO_LAB$ docker pull shwetasing/aco_lab:latest
latest: Pulling from shwetasing/aco_lab
Digest: sha256:64332ec950f90eff75596f6bf7d7dc5a2dadf062f9759ec15de5f9a0c9087388
Status: Image is up to date for shwetasing/aco_lab:latest
docker.io/shwetasing/aco_lab:latest

What's Next?
View a summary of image vulnerabilities and recommendations → docker scout quickview shwetasing/aco_lab:latest
pavilion@shweta:~/Desktop/ACO/ACO_LAB$

```