EXPERIMENT 5

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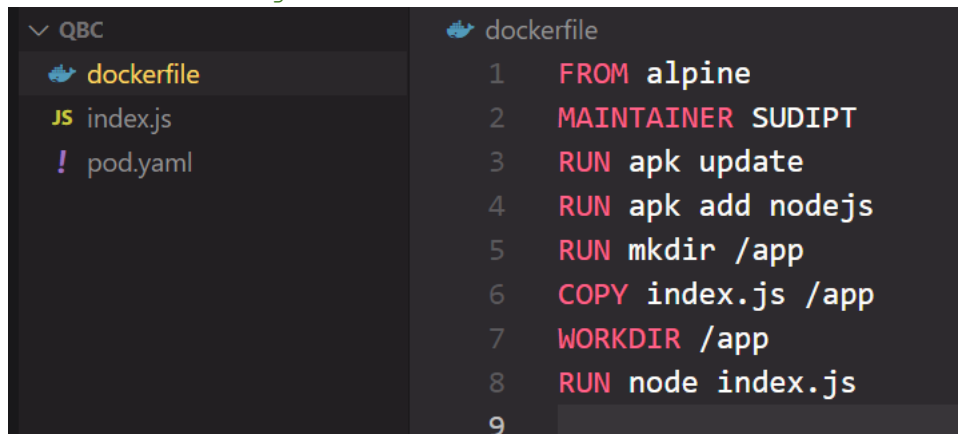
Batch b4

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.

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 F:\dockerlab> docker tag sudhanshu87/myimage:1.0.0 sudhanshu87/myimage:latest
```

5. Login to Dockerhub from console using following command.

docker Login

```
PS F:\dockerlab> docker login
Authenticating with existing credentials...
Login Succeeded
```

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

```
docker push Repositoryname
```
```
PS F:\dockerlab> docker push sudhanshu87/myimage:1.0.0
The push refers to repository [docker.io/sudhanshu87/myimage]
2216ed653644: Pushed
5f70bf18a086: Mounted from katacoda/redis-node-docker-example
c395fc626165: Pushed
10795eff3909: Pushed
81d47d0e76e8: Pushed
b05d22b94890: Pushed
cc2447e1835a: Mounted from library/alpine
1.0.0: digest: sha256:c05cbb54a205fc225b5f1342edd08a1b1dec36de2acb82045be81617a57fe9bd size: 1777
PS F:\dockerlab>
```

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

```
Docker run -d image_name
```
```
PS F:\dockerlab> docker pull sudhanshu87/myimage:1.0.0
1.0.0: Pulling from sudhanshu87/myimage
Digest: sha256:c05cbb54a205fc225b5f1342edd08a1b1dec36de2acb82045be81617a57fe9bd
Status: Image is up to date for sudhanshu87/myimage:1.0.0
docker.io/sudhanshu87/myimage:1.0.0
```

```
PS F:\dockerlab> docker run -d sudhanshu87/myimage:1.0.0
b0b7cc38f41f79d84db18879f499e16673bbb5b277a9023b000d1af7fa398cb0
```