

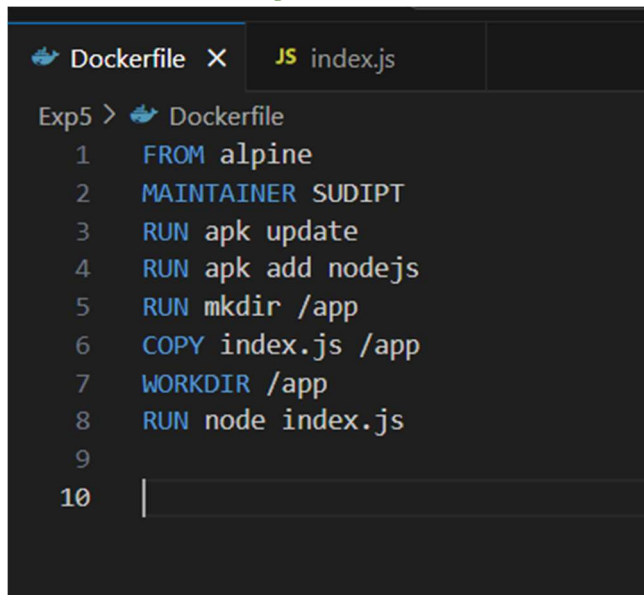
EXPERIMENT 5

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
```

A screenshot of a code editor with two tabs: 'Dockerfile' and 'JS index.js'. The 'Dockerfile' tab is active, showing a list of Docker build instructions. The editor has a dark theme and line numbers on the left side.

```
Exp5 > Dockerfile
1 FROM alpine
2 MAINTAINER SUDIPT
3 RUN apk update
4 RUN apk add nodejs
5 RUN mkdir /app
6 COPY index.js /app
7 WORKDIR /app
8 RUN node index.js
9
10 |
```

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

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

```
PS C:\Users\manyas\OneDrive\Desktop\ACO\Exp5> docker build -t myimage:0.1 .
[+] Building 56.3s (12/12) FINISHED
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 187B
=> [internal] load metadata for docker.io/library/alpine:latest
=> CACHED [1/7] FROM docker.io/library/alpine
=> [internal] load build context
=> => transferring context: 29B
=> [2/7] RUN apk update
=> [3/7] RUN apk add nodejs
=> [4/7] RUN mkdir /app
=> [5/7] COPY index.js /app
=> [6/7] WORKDIR /app
=> [7/7] RUN node index.js
=> exporting to image
=> => exporting layers
=> => writing image sha256:bf00d84eec77f83b7f61511e41e4ba6d885711eb2f61e463249470bf531d75c2
=> => naming to docker.io/library/myimage:0.1
```

What's Next?

View a summary of image vulnerabilities and recommendations → [docker scout quickview](#)

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



Yatharth Singh [Edit profile](#)



Community User



Joined November 21, 2023

Repositories

Starred


Contributed

Displaying 1 to 2 repositories

Create repository

Namespace
yatharthdocker

Repository Name *
aco_exp5





Short description

A short description to identify your repository. If the repository is public, this description is used to index your content on Docker Hub and in search engines, and is visible to users in search results.

Visibility

Using 0 of 1 private repositories. [Get more](#)

☒ Public 
Appears in Docker Hub search results

☐ Private 
Only visible to you

Cancel

Create

4. Tag the recently created image using following command.

```
docker tag imageID Repositoryname  
katacoda/redis-node-docker-example latest eb49f27be288 7 years ago 35.4MB  
PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5> docker tag bf00d84eec77 yatharthdocker/aco_exp5  
PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5> █
```

5. Login to Dockerhub from console using following command.

```
docker Login
```

```
PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5> docker login  
Log in with your Docker ID or email address to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com/ to create one.  
You can log in with your password or a Personal Access Token (PAT). Using a limited-scope PAT grants better security and is required for organizations using SSO. Learn more at https://docs.docker.com/go/access-tokens/  
  
Username: yatharthdocker  
Password:  
Login Succeeded  
PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5>  
PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5> █
```


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


```
docker push Repositoryname
```

```
PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5> docker push yatharthdocker/aco_exp5
Using default tag: latest
The push refers to repository [docker.io/yatharthdocker/aco_exp5]
2069e460cec1: Pushed
5f70bf18a086: Mounted from katacoda/redis-node-docker-example
862c0697ed01: Pushed
0c83236e05a5: Pushed
9542fe2d9c8b: Pushed
f823c4d1216e: Pushed
9fe9a137fd00: Mounted from library/alpine
latest: digest: sha256:2c710817b3d1e9df73218cc98922c6cb17168c68bf4f472503274b4f321d2599 size: 1777
PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5>
```

 yatharthdocker / aco_exp5

Description

This repository does not have a description 

 Last pushed: a minute ago

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
 latest		Image	---	3 minutes ago

[See all](#)

[Go to Advanced Image Management](#)

Repository overview

An overview describes what your image does and how to run it. It displays in the public view of your repository.

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

```
Docker run -d image_name
```

```
See 'docker run --help'.
PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5> docker run -d myimage:0.1
9ed9a27718a040a1800d3a61662a42fec860982ccee5b7e69bc4ae1a50cfaa7e
PS C:\Users\manya\OneDrive\Desktop\ACO\Exp5>
```