



ACO LAB

EXPERIMENT 5

Name-Anushka Chamoli

Sap Id-500097354

Roll no-R2142211336

Batch-4 (DevOps)

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.

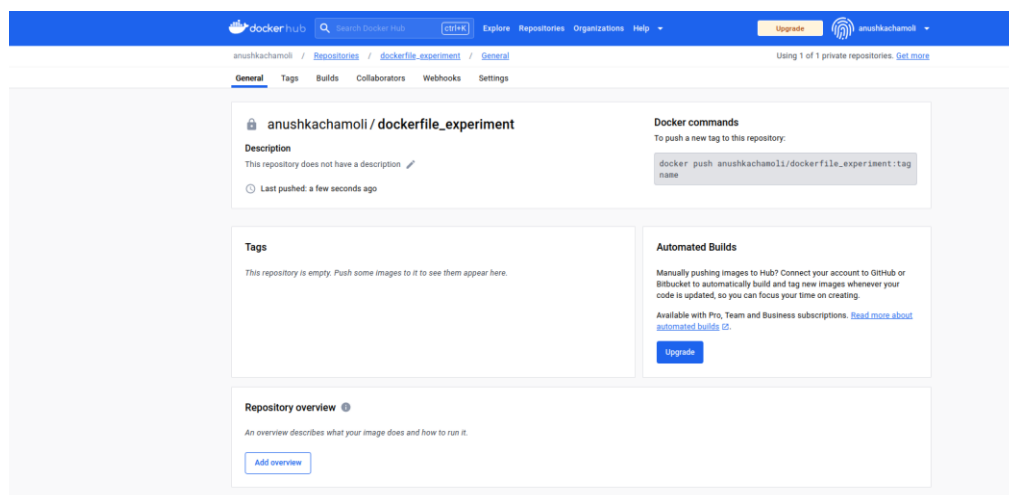
```
anushka@anushka-VirtualBox:~$ docker build -t myimage:1.1 .
[+] Building 9.3s (10/10) FINISHED
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 411B
=> [internal] load metadata for docker.io/library/alpine:latest
=> CACHED [1/5] FROM docker.io/library/alpine
=> [internal] load build context
=> => transferring context: 29B
=> [2/5] RUN apk add --no-cache nodejs
=> [3/5] RUN mkdir /app
=> [4/5] WORKDIR /app
=> [5/5] COPY index.js .
=> exporting to image
=> => exporting layers
=> => writing image sha256:b132575f9c970ffcb8c09ece2bb01f194a0922657871fee7e15499c7b593601a
=> => naming to docker.io/library/myimage:1.1
```

What's Next?

1. Sign in to your Docker account → [docker login](#)
2. View a summary of image vulnerabilities and recommendations → [docker scout quickview](#)

```
anushka@anushka-VirtualBox:~$
```

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



4. Tag the recently created image using following command.

```
ox:~$ docker tag sha256:b132575f9c970ffcb8c09ece2bb01f194a0922657871fee7e15499c7b593601a dockerfile_experiment
ox:~$
```

5. Login to Dockerhub from console using following command.

```
anushka@anushka-VirtualBox:~$ docker tag sha256:b132575f9c970ffcb8c09ece2bb01f194a0922657871
anushka@anushka-VirtualBox:~$ docker login
Log in with your Docker ID or email address to push and pull images from Docker Hub. If you
You can log in with your password or a Personal Access Token (PAT). Using a limited-scope PA
ccess-tokens/

Username: anushkachamoli
Password:
WARNING! Your password will be stored unencrypted in /home/anushka/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
anushka@anushka-VirtualBox:~$
```

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

```
anushka@anushka-VirtualBox:~$ docker push dockerfile_experiment
Using default tag: latest
The push refers to repository [docker.io/library/dockerfile_experiment]
2aea0a0efc1e: Preparing
5f70bf18a086: Preparing
0ffa393dfc39: Preparing
e48caa2801da: Preparing
9fe9a137fd00: Preparing
denied: requested access to the resource is denied
anushka@anushka-VirtualBox:~$
```