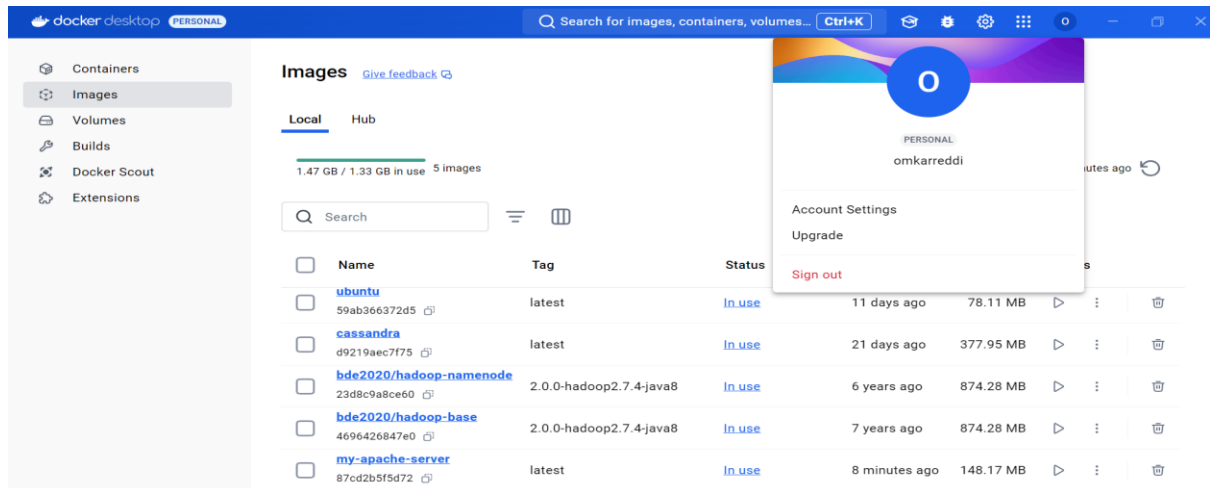


Experiment No . 6

Title : Exploring Containerization and Application Deployment with Docker

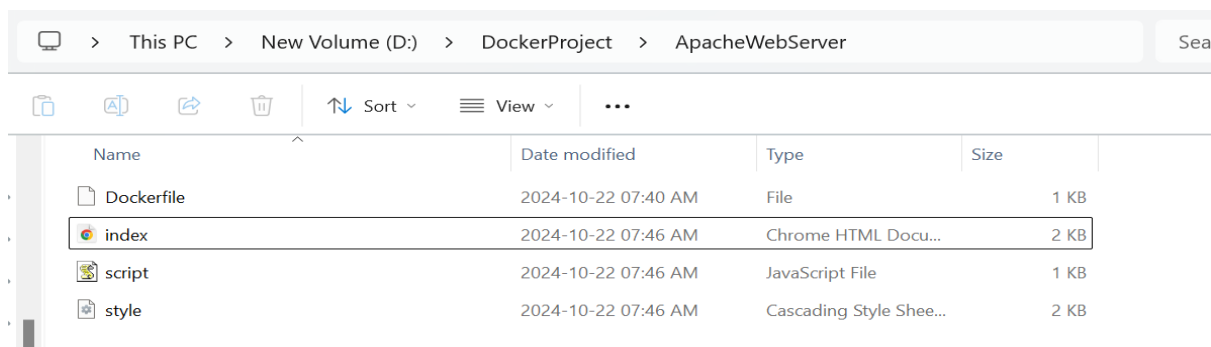
Step 1) Install Docker



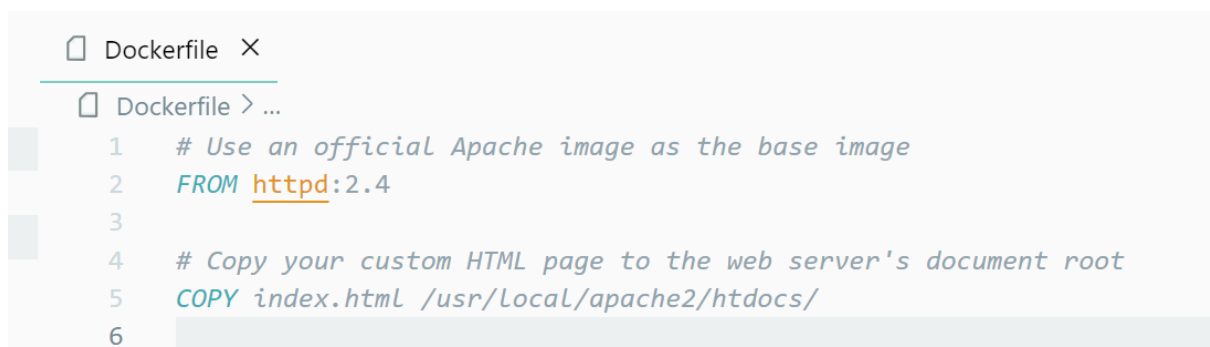
And verify docker installation;

```
C:\Users\OMKAR>docker --version
Docker version 27.2.0, build 3ab4256
```

Step 2) Create simple HTML Page at D:\DockerProjects\ApacheWebServer



Step 3) Create a Docker File in same directory of web sever project. (No extension)



Step 4) Build the Docker image.

```
D:\DockerProject\ApacheWebServer>docker build -t my-apache-server .
[+] Building 2.9s (8/8) FINISHED                                docker:desktop-linux
=> [internal] load build definition from Dockerfile              0.0s
=> => transferring dockerfile: 215B                             0.0s
=> [internal] load metadata for docker.io/library/httpd:2.4     2.6s
=> [auth] library/httpd:pull token for registry-1.docker.io     0.0s
=> [internal] load .dockerignore                                0.0s
=> => transferring context: 2B                                    0.0s
=> [internal] load build context                                0.0s
=> => transferring context: 1.09kB                               0.0s
=> CACHED [1/2] FROM docker.io/library/httpd:2.4@sha256:bbea29057f25d9543e6a96a8e3cc7c7c937206d20eab2323f478fdb2 0.0s
=> [2/2] COPY index.html /usr/local/apache2/htdocs/            0.0s
=> exporting to image                                           0.1s
=> => exporting layers                                           0.0s
=> => writing image sha256:490d21d53657376d9ee27be34527d39e24d3772e5129c3215124a93f08b075c4 0.0s
=> => naming to docker.io/library/my-apache-server              0.0s

View build details: docker-desktop://dashboard/build/desktop-linux/desktop-linux/06c2i2kkr89p496od91fhq0sx
```

Step 5) Run the Docker Container.

```
D:\DockerProject\ApacheWebServer>docker run -p 8082:80 -d my-apache-server
fc7f09eb79a3d3da4aea6c2a48b5170ff99efba682635d63f25f57b4a0c46331
```

Step 6) Access your apache web server using <http://localhost:8082>

[←](#) [→](#) [↺](#) [🏠](#) [ⓘ](#) localhost:8082

Employee Login

Username

Password

Step 7) Cleanup.

Stop running Docker container ;

1.Get the container ID by running:

```
D:\DockerProject\ApacheWebServer>docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
fc7f09eb79a3   my-apache-server "httpd-foreground"     3 minutes ago Up 3 minutes  0.0.0.0:8082->80/tcp               cool_lamport
4dd607545175   87cd2b5f5d72  "httpd-foreground"     18 minutes ago Up 18 minutes  0.0.0.0:8081->80/tcp               quizzical_mccarthy
88fb625d303c   87cd2b5f5d72  "httpd-foreground"     19 minutes ago Up 19 minutes  0.0.0.0:8070->80/tcp               stupefied_spence
```

Then stop the container:

```
D:\DockerProject\ApacheWebServer>docker stop c1ffe4087b20
c1ffe4087b20
```

2.Remove the container and image;

```
D:\DockerProject\ApacheWebServer>docker rm c1ffe4087b20
c1ffe4087b20
```

Remove the Docker image :

```
D:\DockerProject\ApacheWebServer>docker rmi my-apache-server
Untagged: my-apache-server:latest
Deleted: sha256:490d21d53657376d9ee27be34527d39e24d3772e5129c3215124a93f08b075c4
```