

DOCKER ASSIGNMENT SUBMISSION

Name: Vikram

Assignment: Replace Apache Default Page Using Dockerfile & Custom HTML

Problem Statement

Using the Dockerfile created in the previous assignment:

1. Create a sample HTML file
 2. Add this HTML file into the Docker image
 3. When the container runs, it should display this HTML file instead of the default Apache page
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Task 1: Create a Sample HTML File

Create a directory:

```
mkdir html-docker
```

```
cd html-docker
```

Create an HTML file:

```
nano index.html
```

Paste this:

```
<!DOCTYPE html>

<html>

<head>

<title>My Custom Apache Page</title>

</head>

<body>

<h1>Hello from Vikram's Docker Container!</h1>

<p>This is a custom HTML page served by Apache in Docker.</p>

</body>

</html>
```

Save → CTRL+O → Enter

Exit → CTRL+X

```
ubuntu@ip-10-0-13-46:~$ mkdir html-docker
cd html-docker
ubuntu@ip-10-0-13-46:~/html-docker$
```

```
ubuntu@ip-10-0-13-46:~/html-docker$ nano index.html
ubuntu@ip-10-0-13-46:~/html-docker$
```

```
GNU nano 7.2
<!DOCTYPE html>
<html>
<head>
<title>My Custom Apache Page</title>
</head>
<body>
<h1>Hello from Vikram's Docker Container!</h1>
<p>This is a custom HTML page served by Apache in Docker.</p>
</body>
</html>
```

Task 2: Use the Previous Dockerfile (Modify It)

In the same folder, create Dockerfile:

```
nano Dockerfile
```

Paste this updated Dockerfile:

FROM ubuntu:latest

RUN apt update -y && \
 apt install apache2 -y && \
 apt clean

Copy custom HTML file into Apache web directory
COPY index.html /var/www/html/index.html

EXPOSE 80

CMD ["apachectl", "-D", "FOREGROUND"]

This line replaces the default Apache page:

COPY index.html /var/www/html/index.html

Save and exit.

```
ubuntu@ip-10-0-13-46:~/html-docker$ nano Dockerfile
ubuntu@ip-10-0-13-46:~/html-docker$ cat Dockerfile
FROM ubuntu:latest

RUN apt update -y && \
    apt install apache2 -y && \
    apt clean

# Copy custom HTML file into Apache web directory
COPY index.html /var/www/html/index.html

EXPOSE 80

CMD ["apachectl", "-D", "FOREGROUND"]
ubuntu@ip-10-0-13-46:~/html-docker$
```

Task 3: Build New Docker Image

```
sudo docker build -t custom-apache:v1 .
```

Verify:

```
sudo docker images
```

```
ubuntu@ip-10-0-13-46:~/html-docker$ sudo docker build -t custom-apache:v1 .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
            Install the buildx component to build images with BuildKit:
            https://docs.docker.com/go/buildx/

Sending build context to Docker daemon  3.072kB
Step 1/5 : FROM ubuntu:latest
----> c3a134f2ace4
Step 2/5 : RUN apt update -y &&      apt install apache2 -y &&      apt clean
----> Using cache
----> 1072a3984243
Step 3/5 : COPY index.html /var/www/html/index.html
----> 449a17ff034c
Step 4/5 : EXPOSE 80
----> Running in d05c99fe2047
----> Removed intermediate container d05c99fe2047
----> ee637eba7184
Step 5/5 : CMD ["apachectl", "-D", "FOREGROUND"]
----> Running in 3148c109c4eb
----> Removed intermediate container 3148c109c4eb
----> 53f0ee46f331
Successfully built 53f0ee46f331
Successfully tagged custom-apache:v1
ubuntu@ip-10-0-13-46:~/html-docker$
```

```
ubuntu@ip-10-0-13-46:~/html-docker$ sudo docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
custom-apache       v1              53f0ee46f331   20 seconds ago  242MB
ubuntu-apache-auto  v1              c5f8a23f0f2f   25 minutes ago  242MB
ubuntu-apache       v1              36054fb52c4f   3 hours ago     242MB
vikky9387/vikky     v1              36054fb52c4f   3 hours ago     242MB
ubuntu              latest          c3a134f2ace4    7 weeks ago     78.1MB
ubuntu@ip-10-0-13-46:~/html-docker$
```

Task 4: Run Container and Check Custom Page

```
sudo docker run -p 80:80 --name vcustomweb custom-apache:v1
```

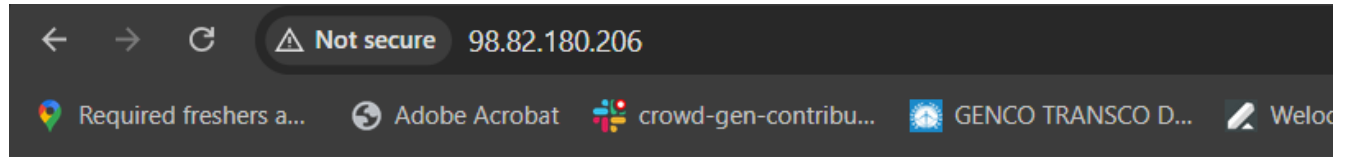
Now open:

<http://<EC2-PUBLIC-IP>>

You should see:

- ✓ Your custom HTML
- ✓ NOT the default Apache page

```
ubuntu@ip-10-0-13-46:~/html-docker$ sudo docker run -p 80:80 --name vcustomweb custom-apache:v1
AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName' directive globally to suppress this messa
ge
```



Hello from Vikram's Docker Container!

This is a custom HTML page served by Apache in Docker.

Conclusion

Successfully created a custom HTML page, updated the Dockerfile to replace the Apache default page, built a new Docker image, and verified the custom page in the browser. The assignment is fully completed.