

# 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
- 

## 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
```

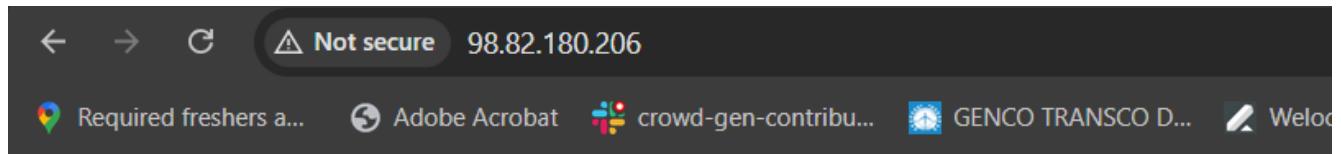
Now open:

<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 message
```



# 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.