Tasks To Be Performed:

1. Create a sample HTML file
2. Use the Dockerfile from the previous task
3. Replace this sample HTML file inside the Docker container with the default page

```
root@ip-172-31-26-62:/home/ubuntu# cd apache-html/
root@ip-172-31-26-62:/home/ubuntu/apache-html# docker --version
Docker version 28.2.2, build 28.2.2-0ubuntu1~24.04.1
root@ip-172-31-26-62:/home/ubuntu/apache-html# vi index.html
root@ip-172-31-26-62:/home/ubuntu/apache-html# ls
index.html
root@ip-172-31-26-62:/home/ubuntu/apache-html#
```

```
# Use Ubuntu as base image
FROM ubuntu:latest

# Prevent interactive prompts
ENV DEBIAN_FRONTEND=noninteractive

# Install Apache2
RUN apt-get update && \
    apt-get install -y apache2 && \
    apt-get clean

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

# Expose port 80
EXPOSE 80

# Start Apache in foreground
CMD ["/usr/sbin/apache2ctl", "-D", "FOREGROUND"]


~
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```

2. Use the Dockerfile from the previous task

```
root@ip-172-31-26-62:/home/ubuntu/apache-html# vi Dockerfile
root@ip-172-31-26-62:/home/ubuntu/apache-html# ls
Dockerfile  index.html
root@ip-172-31-26-62:/home/ubuntu/apache-html#
```

```
# Use the official Ubuntu base image
FROM ubuntu:latest

# Update package list and install Apache2
RUN apt-get update && \
    apt-get install -y apache2 && \
    apt-get clean

# Expose port 80 for HTTP traffic
EXPOSE 80

# Start Apache service in the foreground when container starts
CMD ["apachectl", "-D", "FOREGROUND"]
```

3. Replace this sample HTML file inside the Docker container with the default page

```
root@ip-172-31-26-62:/home/ubuntu/apache-html# docker build -t my-apache-image .
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 1/6 : FROM ubuntu:latest
latest: Pulling from library/ubuntu
a1a21c96bc16: Already exists
Digest: sha256:728785b59223d755e3e5c5af178fab1be7031f3522c5ccd7a0b32b80d8248123
Status: Downloaded newer image for ubuntu:latest
 ---> ce8f79aecc43
Step 2/6 : ENV DEBIAN_FRONTEND=noninteractive
 ---> Running in 9d8f6f6f4e0d
 ---> Removed intermediate container 9d8f6f6f4e0d
 ---> c8d8edf667a1
Step 3/6 : RUN apt-get update &&     apt-get install -y apache2 &&     apt-get clean
 ---> Running in eb2b7f0e947f
Get:1 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
Get:4 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble/multiverse amd64 Packages [331 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble/restricted amd64 Packages [117 kB]
```

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```
Processing triggers for libc-bin (2.39-0ubuntu8.6) ...
Processing triggers for ca-certificates (20240203) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
 ---> Removed intermediate container eb2b7f0e947f
 ---> 64e775794e77
Step 4/6 : COPY index.html /var/www/html/index.html
 ---> 510b6a603cae
Step 5/6 : EXPOSE 80
 ---> Running in 0a5689db2fe0
 ---> Removed intermediate container 0a5689db2fe0
 ---> 0c2c4b1e3e20
Step 6/6 : CMD ["/usr/sbin/apache2ctl", "-D", "FOREGROUND"]
 ---> Running in 1aacd31f64c9
 ---> Removed intermediate container 1aacd31f64c9
 ---> 96b020d20a9f
Successfully built 96b020d20a9f
Successfully tagged my-apache-image:latest
root@ip-172-31-26-62:/home/ubuntu/apache-html#
```

```
root@ip-172-31-26-62:/home/ubuntu/apache-html# docker run -d -p 8080:80 --name my-apache-container-new  my-apache-image
1cd2fed49d67c978318cebc13893e601183fdc85efaf07fb776e1413ef23e162
root@ip-172-31-26-62:/home/ubuntu/apache-html# docker ps
CONTAINER ID   IMAGE            COMMAND                CREATED        STATUS         PORTS                                         NAMES
1cd2fed49d67   my-apache-image  "/usr/sbin/apache2ct…" 8 seconds ago  Up 7 seconds   0.0.0.0:8080->80/tcp, [::]:8080->80/tcp       my-apache-container-new
root@ip-172-31-26-62:/home/ubuntu/apache-html#
```

← C ⚠ Not secure 23.20.90.13:8080

Hello from my Docker container!

This page is served by Apache inside a Docker container.

```
cd2fed49d67c978318cebc13893e601183fdc85efaf07fb776e1413ef23e162
root@ip-172-31-26-62:/home/ubuntu/apache-html# docker ps
CONTAINER ID   IMAGE            COMMAND                CREATED        STATUS         PORTS                                         NAMES
cd2fed49d67    my-apache-image  "/usr/sbin/apache2ct…" 8 seconds ago  Up 7 seconds   0.0.0.0:8080->80/tcp, [::]:8080->80/tcp       my-apache-container-new
root@ip-172-31-26-62:/home/ubuntu/apache-html#
```