Module-3: Docker – I Assignment – 5

You have been asked to:

- Create a sample HTML file
- Use the Dockerfile from the previous task
- Replace this sample HTML file inside the docker container with the default page

Solution:

1) Navigate to the directory containing your Dockerfile in the previous assignment

```
ubuntu@ip-172-31-10-158:~/my-docker-project$ nano Dockerfile ubuntu@ip-172-31-10-158:~/my-docker-project$ l1 total 12 drwxrwxr-x 2 ubuntu ubuntu 4096 Feb 9 17:32 ./ drwxr-x--- 6 ubuntu ubuntu 4096 Feb 9 17:30 ../ -rw-rw-r-- 1 ubuntu ubuntu 357 Feb 9 17:32 Dockerfile
```

2) Create index.html in the same directory as my Dockerfile: nano index.html

```
<!DOCTYPE html>
<html>
<head>
    <title>Sample Page</title>
</head>
<body>
    <h1>Welcome to My Sample Page</h1>
    This is a sample HTML file.
</body>
</html>
```

```
ubuntu@ip-172-31-10-158:~/my-docker-project$ ll
total 16
drwxrwxr-x 2 ubuntu ubuntu 4096 Feb 9 17:42 ./
drwxr-x--- 6 ubuntu ubuntu 4096 Feb 9 17:30 ../
-rw-rw-r-- 1 ubuntu ubuntu 357 Feb 9 17:32 Dockerfile
-rw-rw-r-- 1 ubuntu ubuntu 170 Feb 9 17:42 index.html
ubuntu@ip-172-31-10-158:~/my-docker-project$
```

```
3) Build the Docker Image: docker build -t my-apache-sample. The -t option tags the image
   with a name.
   ibuntu@ip-172-31-10-158:~/my-docker-project$ docker build -t my-apache-sample
   EPRECATED: 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
   atest: Pulling from library/ubuntu
   a7813e071bf: Pull complete
   Diqest: sha256:72297848456d5d37d1262630108ab308d3e9ec7ed1c3286a32fe09856619a782
   Status: Downloaded newer image for ubuntu:latest
    ---> a04dc4851cbc
   Step 2/5 : RUN apt-get update && apt-get install -y apache2
    ---> Running in 6a7eb0228d90
   Get:1 http://archive.ubuntu.com/ubuntu noble InRelease [256 kB]
   et:2 http://security.ubuntu.com/ubuntu noble-security InRelease [126 kB]
   Get: 3 http://security.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [15.5 kB]
   Get:4 http://archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
   et:5 http://archive.ubuntu.com/ubuntu noble-backports InRelease [126 kB]
   Get:6 http://security.ubuntu.com/ubuntu noble-security/main amd64 Packages [777 kB]
   et:7 http://archive.ubuntu.com/ubuntu noble/universe amd64 Packages [19.3 MB]
   Get:8 http://security.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [789 kB]
   Enabling module reqtimeout.
   Enabling conf charset.
   Enabling conf localized-error-pages.
   Enabling conf other-vhosts-access-log.
   Enabling conf security.
   Enabling conf serve-cgi-bin.
   Enabling site 000-default.
   invoke-rc.d: could not determine current runlevel
   invoke-rc.d: policy-rc.d denied execution of start.
   Processing triggers for libc-bin (2.39-Oubuntu8.3) ...
   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 6a7eb0228d90
    ---> d7c6b4c062e9
   Step 3/5 : COPY index.html /var/www/html/index.html
    ---> 989a55cacbd7
   Step 4/5 : CMD ["apache2ctl", "-D", "FOREGROUND"]
    ---> Running in fac037af2fcd
    ---> Removed intermediate container fac037af2fcd
    ---> 9b62d3d136dc
   Step 5/5 : EXPOSE 80
    ---> Running in 5396dba33d55
    ---> Removed intermediate container 5396dba33d55
    ---> 90356d0cf184
   Successfully built 90356d0cf184
   Successfully tagged my-apache-sample:latest
   ubuntu@ip-172-31-10-158:~/my-docker-project$
```

4) Once the image is built, run a container from it and map the port: docker run -d -p 80:80 --name my-apache-container my-apache-sample

ubuntu@ip-172-31-10-158:~/my-docker-project\$ docker run -d -p 80:80 --name my-apache-container my-apache-sample 8e15d94d9bf1a0e5df06e1616a725fcb9a53136df4051ddbefc0d4f8913b1c77 ubuntu@ip-172-31-10-158:~/my-docker-project\$

5) Open your web browser and navigate to http://localhost (or http://<your-server-ip>

Welcome to My Sample Page

This is a sample HTML file.