## Module 3: Docker Part 1 Assignment - 4

- 1. Create a Dockerfile with the following specs:
  - Ubuntu container
  - Apache2 installed
  - Apache2 should automatically run once the container starts

## Solution:-

\* This is Dockerfile content:-

```
FROM ubuntu
RUN apt update
RUN apt install apache2 -y
RUN apt install -y apache2-utils
RUN apt clean
EXPOSE 90
```

CMD ["apache2ctl", "-D", "FOREGROUND"]

```
Proof*:p-172-31-84-192./home/ubuntu

RUN apt update

RUN apt install apache2 -y

RUN apt install -y apache2-utils

RUN apt clean

EXPOSE 90

CMD ["apache2ctl", "-D", "FOREGROUND"]
```

## # docker build -t img\_frm\_df

```
root@ip-172-31-84-192:/home/ubuntu# ls
Dockerfile
root@ip-172-31-84-192:/home/ubuntu# docker build -t img_frm_df .
Sending build context to Docker daemon 12.29kB
Step 1/7: FROM ubuntu
latest: Pulling from library/ubuntu
3153aa388d02: Already exists
Digest: sha256:0bced47fffa336lafa981854fcabcd4577cd43cebbb808cea2b1f33a3dd7f508
Status: Downloaded newer image for ubuntu:latest
---> 5a81c4b8502e
Step 2/7: RUN apt update
---> Running in 6d92af7522cd
WARNING: apt does not have a stable CLI interface. Use with caution in scripts.
Get:1 http://archive.ubuntu.com/ubuntu jammy InRelease [270 kB]
```

## # docker run -it --name con frm df img img frm df /bin/bash

```
root@ip-172-31-84-192:/home/ubuntu# docker run -it --name con frm df img
frm df /bin/bash
root@17b8e1f71b71:/# root@ip-172-31-84-192:/home/ubuntu#
root@ip-172-31-84-192:/home/ubuntu# docker ps
CONTAINER ID IMAGE
                                                       COMMAND
TATUS
                    PORTS
                                                                 NAMES
17b8e1f71b71 img_frm_df
p_20 seconds 90/tcp
                                                       "/bin/bash"
                                                                       21 seconds ago
                                                                 con_frm_df_img
25986c98ee85 dhaccamitiwari/assignment-3 "/bin/bash" About an hour ago
p About an hour 0.0.0.0:80->80/tcp, :::80->80/tcp first_con_dh_pulled root@ip-172-31-84-192:/home/ubuntu# docker run -it --name con_frm_df_img_1 -p 9
0:80 img frm df /bin/bash
root@6c82bcc15cfe:/# service apache2 status
 * apache2 is not running
root@6c82bcc15cfe:/# service apache2 start
 * Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully qualified doma
in name, using 172.17.0.4. Set the 'ServerName' directive globally to suppress t
root@6c82bcc15cfe:/# service apache2 status
* apache2 is running
root@6c82bcc15cfe:/# exit
```

2. Submit the Dockerfile for assignment completion.

Solution:- Dockerfile content:-

FROM ubuntu
RUN apt update
RUN apt install apache2 -y
RUN apt install -y apache2-utils
RUN apt clean
EXPOSE 90
CMD ["apache2ctl", "-D", "FOREGROUND"]

<sup>\*</sup> Link:- http://3.82.100.85:90/

