**Working with Dockerfile**

In this lab we are going to create Apache container using Dockerfile

1. **Create a directory and logon to the directory**

mkdir project1

cd project1

1. **Create a file named Dockerfile , save and exit**

vi Dockerfile

FROM ubuntu:18.04

MAINTAINER Chaitanya

RUN apt-get update && apt-get install -y apache2 && apt-get clean && rm -rf /var/lib/apt/lists/\*

ENV APACHE\_RUN\_USER www-data

ENV APACHE\_RUN\_GROUP www-data

ENV APACHE\_LOG\_DIR /var/log/apache2

EXPOSE 80

CMD ["/usr/sbin/apache2ctl", "-D", "FOREGROUND"]

**3.Build the image in the same folder with name as img**

docker build -t img .

Processing triggers for libc-bin ...

ldconfig deferred processing now taking place

Removing intermediate container cd28524bd358

---> 03dccb199228

Step 4/8 : ENV APACHE\_RUN\_USER www-data

---> Running in 7f2e011fb9de

Removing intermediate container 7f2e011fb9de

---> 620b3e22a494

Step 5/8 : ENV APACHE\_RUN\_GROUP www-data

---> Running in 25eae5bebad0

Removing intermediate container 25eae5bebad0

---> efbd5fa29f21

Step 6/8 : ENV APACHE\_LOG\_DIR /var/log/apache2

---> Running in bf6546fc4812

Removing intermediate container bf6546fc4812

---> f22990c5604a

Step 7/8 : EXPOSE 80

---> Running in b6dd7c4545b5

Removing intermediate container b6dd7c4545b5

---> bcdb4db05c72

Step 8/8 : CMD ["/usr/sbin/apache2", "-D", "FOREGROUND"]

---> Running in 04ad4875bba2

**4.Confirm if the image has got created**

root@dockervm:~/project5# docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

img latest c0df78c83c62 8 minutes ago 155MB

**5. Create a container from the image**

**root@dockervm:~/project5# docker run -d -p 80:80 img**

9ca0c677769bc85cf45ad6a9eb1f16a455248ebadd36f0c498fc0e8670f661db

**6. Test if the container is working as desired**

Access the public ip in local and browser and see the o/p

root@dockervm:~/project5# curl http://20.84.82.203/

<html><body><h1>It works!</h1>

<p>This is the default web page for this server.</p>

<p>The web server software is running but no content has been added, yet.</p>

</body></html>

