[CS200]-STNT II Fall 2020-21

Assignment: IV

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1.1 1B

Dockerising Apache Web-Server Create a working directory . Now create an in.html file with the content given in question in the same directory: the content is as follows

Create a Dockerfile file with the following content in the same directory

FROM httpd:latest
WORKDIR /Users/shubham gupta/Desktop
ARG DEBIAN_FRONTEND=noninteractive
ENV TZ=Indian
RUN apt-get -y update
RUN apt-get install -y apache2
EXPOSE 80
COPY in.html /var/www/html/in.html
CMD ["/usr/sbin/apache2ctl", "-D", "FOREGROUND"]

DEBIAN_FRONTEND and the environment variable TZ are used in passing the arguments of tzdata while installing apache2.

Now run the following commands in the terminal:

- ->docker pull httpd:latest
- ->docker build -t apache_webserver.

Lecture 1 1-2

```
C:\Users\shubham gupta\Desktop>docker pull httpd:latest
latest: Pulling from library/httpd
Digest: sha256:fddc534b7f6bb6197855be559244adb11907d569aae1283db8e6ce8bb8f6f456
Status: Image is up to date for httpd:latest
docker.io/library/httpd:latest

C:\Users\shubham gupta\Desktop>docker build -t apache_webserver .

[+] Building 78.2s (10/10) FINISHED

=> [internal] load .dockerignore

=> > transferring context: 2B

=> [internal] load build definition from Dockerfile

=> => transferring dockerfile: 32B

=> [internal] load metadata for docker.io/library/httpd:latest

=> [1/5] FROM docker.io/library/httpd:latest

=> [1/5] FROM docker.io/library/httpd:latest

=> cACHED [2/5] WORKDIR /Users/shubham gupta/Desktop

=> CACHED [2/5] WORKDIR /Users/shubham gupta/Desktop

=> (ACHED [3/5] RUN apt-get -y update

=> [4/5] RUN apt-get install -y apache2

=> [5/5] COPY in.html /var/www/html/in.html

=> exporting to image

=> => exporting layers

=> > naming to docker.io/library/apache_webserver
```

- ->docker run -p 80:80 -dit -name apache_test apache_with_docker
- ->docker ps

It should be showing that the container is running in the following way: docker ps is the essential command to list existing docker containers.

```
C:\Users\shubham gupta>cd desktop

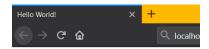
C:\Users\shubham gupta\Desktop>docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

39e81182fd82 apache_webserver "/usr/sbin/apache2ct..." 2 hours ago Up About an hour 0.0.0.0:80->80/tcp apache_with_docker

C:\Users\shubham gupta\Desktop>
```

Now running localhost:80 on the browser we get the following html page running



Learning Docker...

To push the docker image to the public dockerhub repo created we used the following commands

C:\Users\shubham gupta\Desktop>docker tag apache_webserver shubhamgupta11941140/apacheserver

Lecture 1 1-3

```
C:\Users\shubham gupta\Desktop>docker push shubhamgupta11941140/apacheserver
The push refers to repository [docker.io/shubhamgupta11941140/apacheserver]
3855a404d6b3: Pushed
266da4242141: Pushed
47e96f8dda72: Pushed
7095bb2067ca: Pushed
c74375f55aa8: Mounted from library/httpd
211b9be55a20: Mounted from library/httpd
aa0b3e4b6d3b: Mounted from library/httpd
540171a10c83: Mounted from library/httpd
f5600c6330da: Mounted from shubhamgupta11941140/q1try
latest: digest: sha256:3afb247c77574422f4abf9085765369bb13b1858b0aeae7d21030de2c375f9a9 size: 2204
```