Module-3: Docker - I Assignment - 1

You have been asked to:

- Pull ubuntu container
- Run this container, and map port 80 on the local
- Install apache2 on this container
- Check if you are able to access the apache page on your browser.
- I had been done the above task on ubuntu terminal . The commands were as follows
 - sudo apt update

```
/root/.hushlogin file.
root@MTLP-1751:~# sudo apt update
Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Hit:2 http://archive.ubuntu.com/ubuntu jammy InRelease
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
```

- sudo apt install docker.io
- sudo docker pull ubuntu
- sudo docker run -itd -p 80:80 -name sai ubuntu
- sudo docker ps
- sudo docker exec -it < container id> bash

```
107 packages can be upgraded. Run 'apt list --upgradable' to see them.
root@MTLP-1751:~# sudo apt install docker.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker.io is already the newest version (24.0.5-0ubuntu1~22.04.1).
0 upgraded, 0 newly installed, 0 to remove and 107 not upgraded.
root@MTLP-1751:~# sudo docker pull ubuntu:20.04
20.04: Pulling from library/ubuntu
96d54c3075c9: Pull complete
Digest: sha256:ed4a42283d9943135ed87d4ee34e542f7f5ad9ecf2f244870e23122f703f91c2
Status: Downloaded newer image for ubuntu:20.04
docker.io/library/ubuntu:20.04
root@MTLP-1751:~# sudo docker run -itd -p 80:80 --name sai ubuntu
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
aece8493d397: Pull complete
Digest: sha256:2b7412e6465c3c7fc5bb21d3e6f1917c167358449fecac8176c6e496e5c1f05f
Status: Downloaded newer image for ubuntu:latest
5d0aabddfde528cfe55fb35f10baf4343cc62f02d1275aef4ffc805348a4cf53
root@MTLP-1751:~# sudo docker ps
CONTAINER ID IMAGE
                        COMMAND
                                       CREATED
                                                       STATUS
                                                                        PORTS
                                                                                             NAMES
5d0aabddfde5 ubuntu
                        "/bin/bash" 36 seconds ago Up 32 seconds
                                                                       0.0.0.0:80->80/tcp
root@MTLP-1751:~# sudo docker exec -it 5d0aabddfde5 bash
root@5d0aabddfde5:/# apt update
Get:1 http://archive.ubuntu.com/ubuntu jammy InRelease [270 kB]
Get:2 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [119 kB]
```

• apt update

```
11 packages can be upgraded. Run 'apt list --upgradable' to see th
root@5d0aabddfde5:/# apt install -y apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils bzip2 ca-certificates fil
  libcurl4 libexpat1 libgdbm-compat4 libgdbm6 libicu70 libjansson4
  libperl5.34 libpsl5 librtmp1 libsasl2-2 libsasl2-modules libsasl
  netbase openssl perl perl-modules-5.34 publicsuffix ssl-cert xz-
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-
  | libsasl2-modules-gssapi-heimdal libsasl2-modules-ldap libsasl2
  | libterm-readline-perl-perl make libtap-harness-archive-perl
The following NEW packages will be installed:
  apache2 apache2-bin apache2-data apache2-utils bzip2 ca-certific
 libbrotli1 libcurl4 libexpat1 libgdbm-compat4 libgdbm6 libicu70
  libnghttp2-14 libperl5.34 libpsl5 librtmp1 libsasl2-2 libsasl2-m
```

- apt install -y apache2
- service apache2 start
- service apache2 status

```
root@5d0aabddfde5:/# service apache2 status

* apache2 is not running
root@5d0aabddfde5:/# service apache2 start

* Starting Apache httpd web server apache2
AH00558: apache2: Could not reliably determine the server's fully o suppress this message

* root@5d0aabddfde5:/#
```

Then redirect to local host by using http://localhost/ we can get the default apache web page in our browser as shown below.

