

Assignment 2

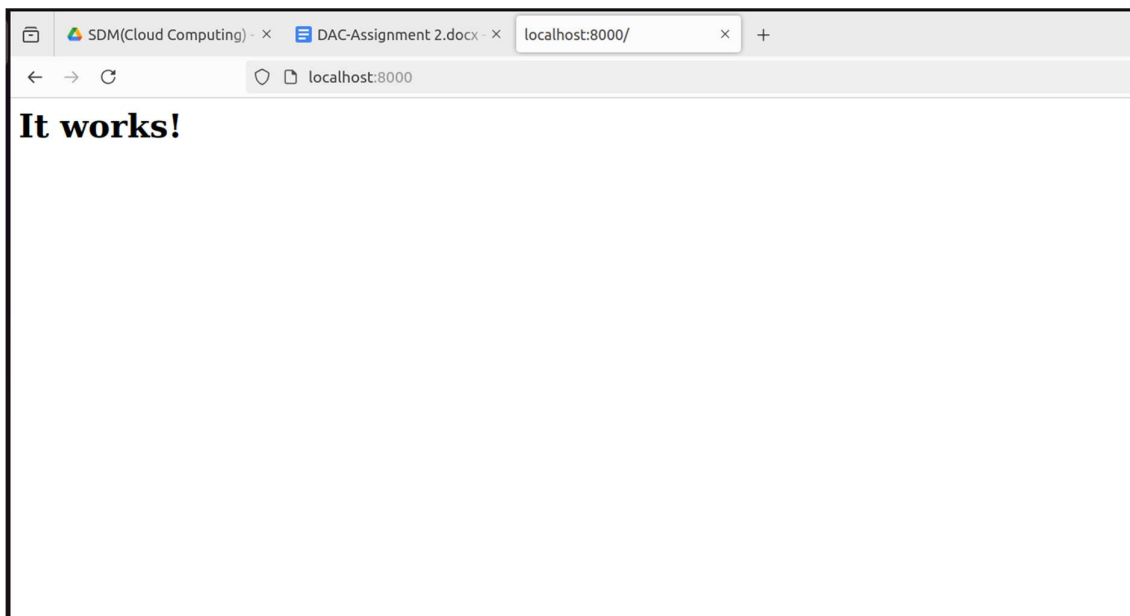
Docker

Q.1. Create a container using ubuntu image. The container name should be ub1. Create a directory in it. Exit from the container. Start the container again. Connect to the container using docker attach command. Exit from the container. Delete the container.

```
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA: ~/Desktop
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~/Desktop$ sudo docker run --name ub1 -ti ubuntu
root@4e8339561347:/# mkdir myfolder
root@4e8339561347:/# exit
exit
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~/Desktop$ sudo docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
4e8339561347   ubuntu   "/bin/bash"   47 seconds ago   Exited (0) 18 seconds ago           ub1
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~/Desktop$ sudo docker attach u1
Error response from daemon: No such container: u1
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~/Desktop$ sudo docker attach ub1
You cannot attach to a stopped container, start it first
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~/Desktop$ sudo docker start ub1
ub1
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~/Desktop$ sudo docker attach ub1
root@4e8339561347:/# ls
bin  boot  dev  etc  home  lib  lib64  media  mnt  myfolder  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@4e8339561347:/# exit
exit
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~/Desktop$ sudo docker attach ub1
You cannot attach to a stopped container, start it first
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~/Desktop$ sudo docker start ub1
ub1
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~/Desktop$ sudo docker attach ub1
root@4e8339561347:/# exit
exit
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~/Desktop$ sudo docker rm ub1
ub1
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~/Desktop$ sudo docker ps -a
CONTAINER ID   IMAGE     COMMAND   CREATED   STATUS    PORTS   NAMES
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~/Desktop$
```

Q.2. Create a container using httpd image. Name the container as web1. map outside port 8000 to this container. Now try accessing the website using <http://localhost:8000>. Create an index.html file that will display your roll number and PRN. Copy this file inside the container to /usr/local/apache2/htdocs directory. Now got to <http://localhost:8000> and check if the web site displays your web page.

```
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA: ~/Desktop
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~/Desktop$ sudo docker run --name web1 -p 8000:80 httpd
AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName'
age
AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using 172.17.0.2. Set the 'ServerName'
age
[Sun Dec 15 13:12:45.651549 2024] [mpm_event:notice] [pid 1:tid 1] AH00489: Apache/2.4.62 (Unix) configured -- resuming normal
[Sun Dec 15 13:12:45.651656 2024] [core:notice] [pid 1:tid 1] AH00094: Command line: 'httpd -D FOREGROUND'
172.17.0.1 - - [15/Dec/2024:13:13:20 +0000] "GET / HTTP/1.1" 200 45
172.17.0.1 - - [15/Dec/2024:13:13:20 +0000] "GET /favicon.ico HTTP/1.1" 404 196
172.17.0.1 - - [15/Dec/2024:13:16:29 +0000] "GET / HTTP/1.1" 200 45
172.17.0.1 - - [15/Dec/2024:13:18:02 +0000] "GET / HTTP/1.1" 200 81
```



```
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA: ~
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~$ vi index.html
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~$ nano index.html
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~$ nano index.html
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~$ sudo docker cp index.html web1:/usr/local/apache2/htdocs
[sudo] password for onkar:
Successfully copied 2.05kB to web1:/usr/local/apache2/htdocs
onkar@onkar-Vivobook-ASUSLaptop-X1504ZA-X1504ZA:~$
```

