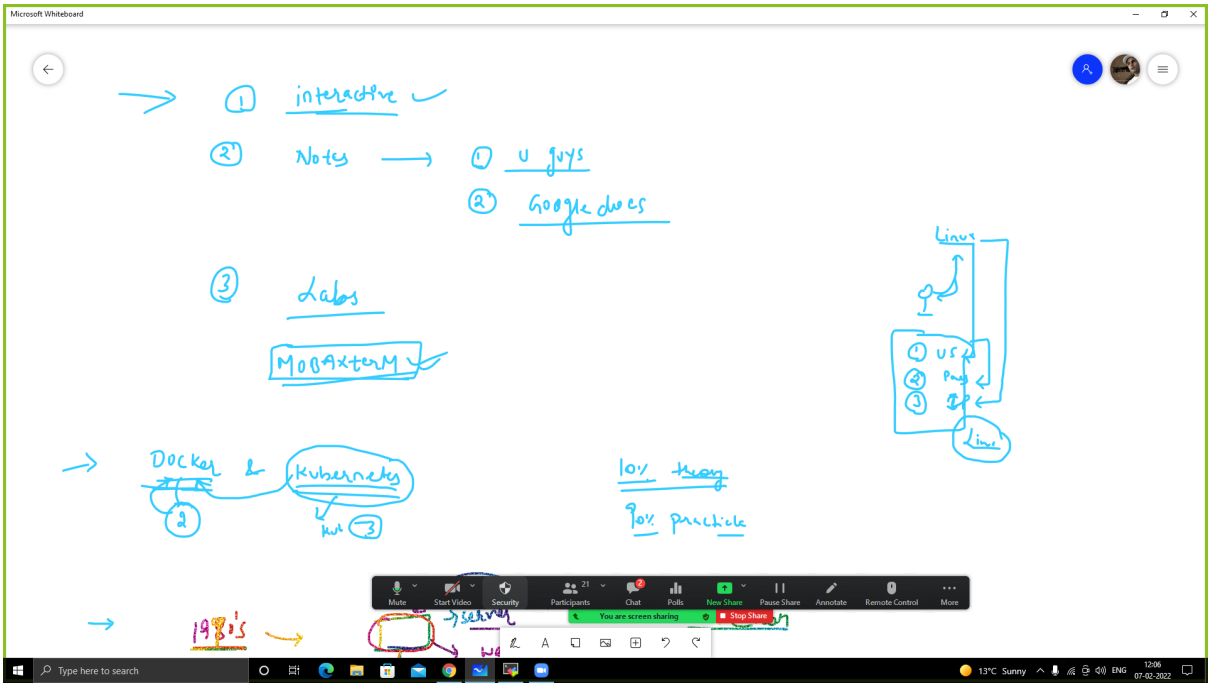
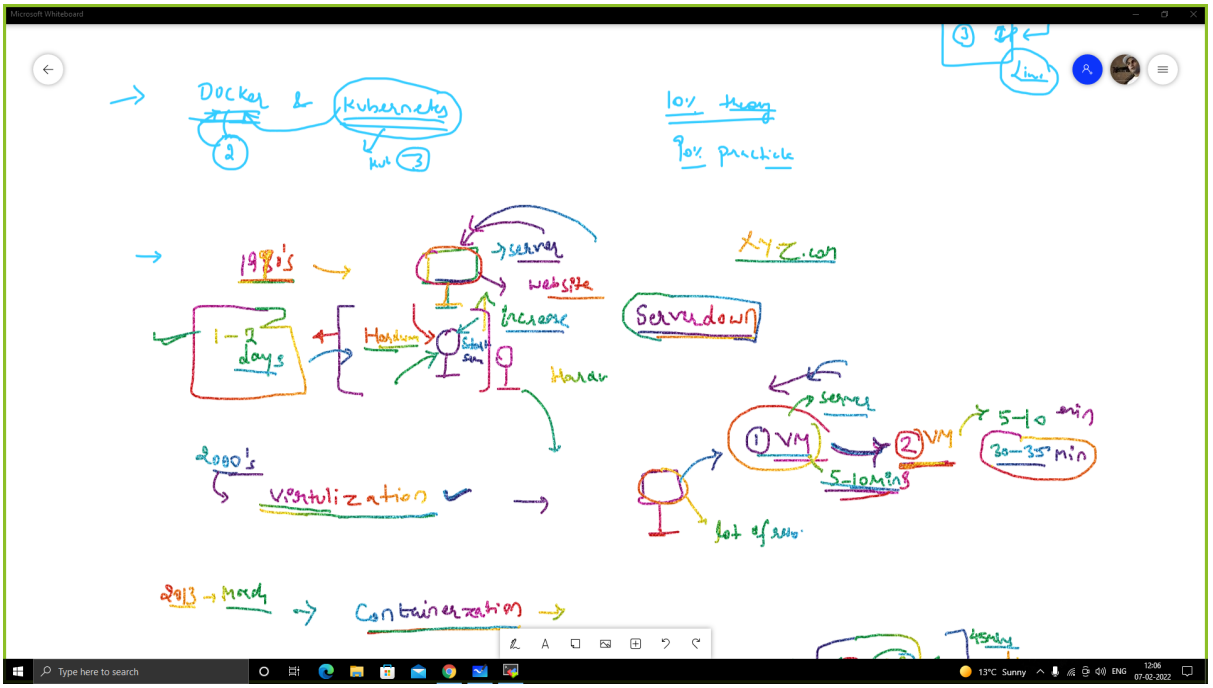
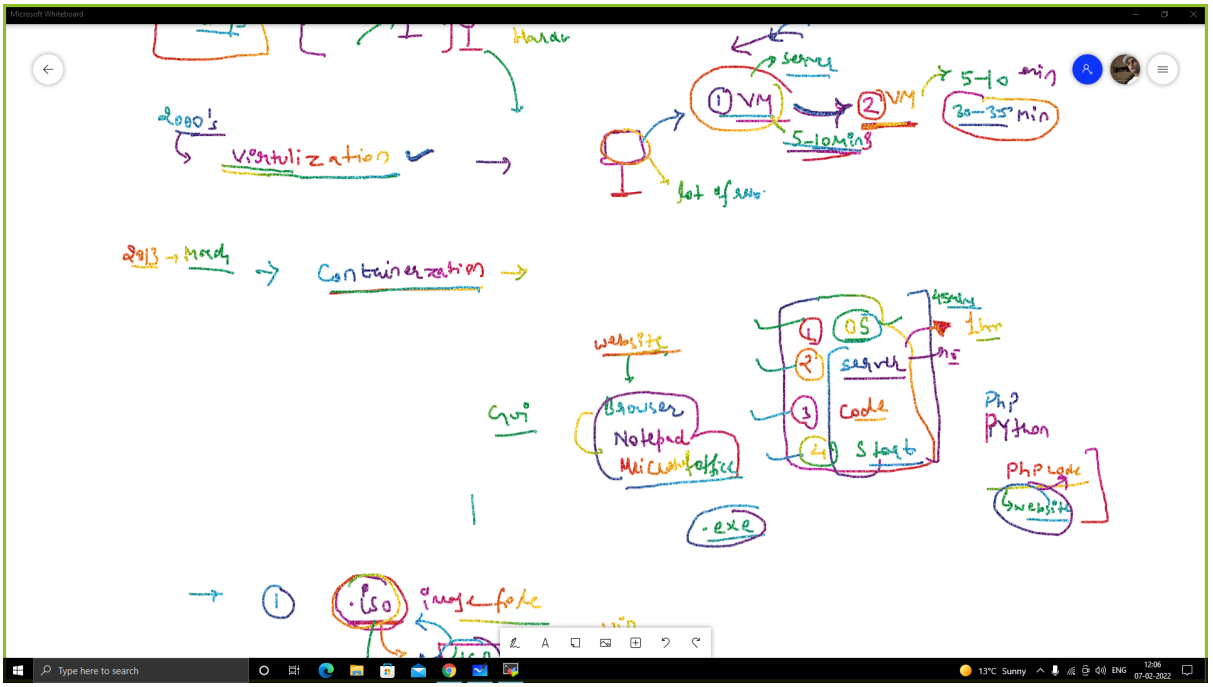
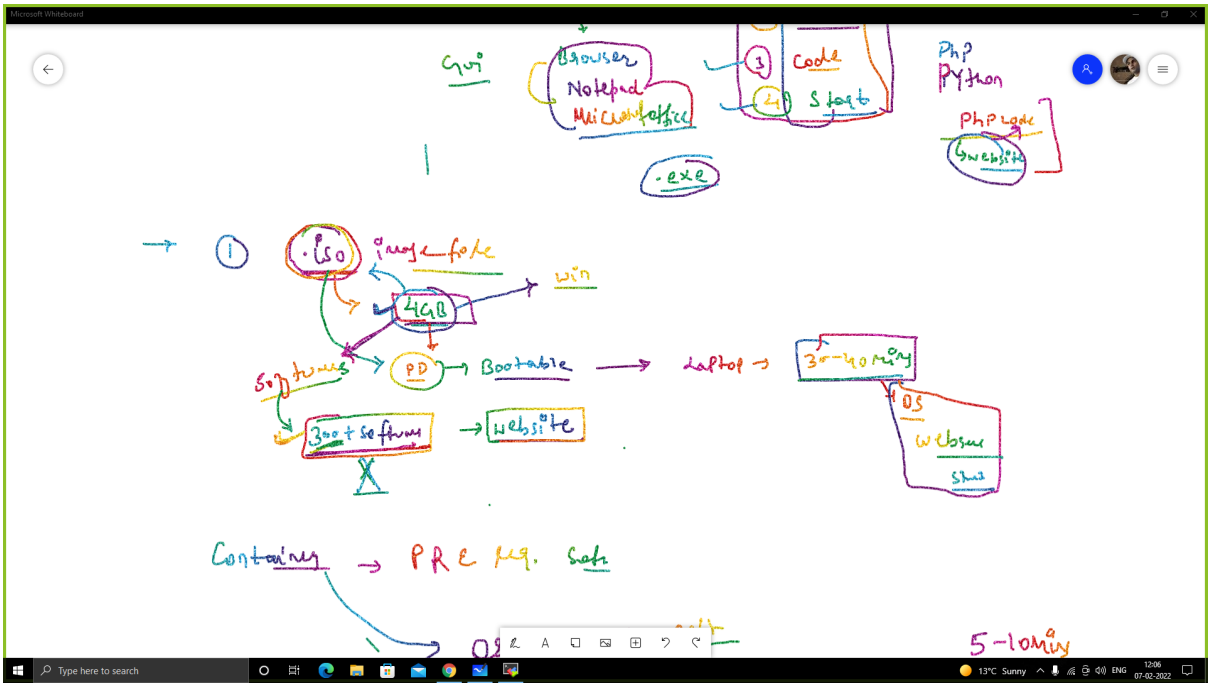
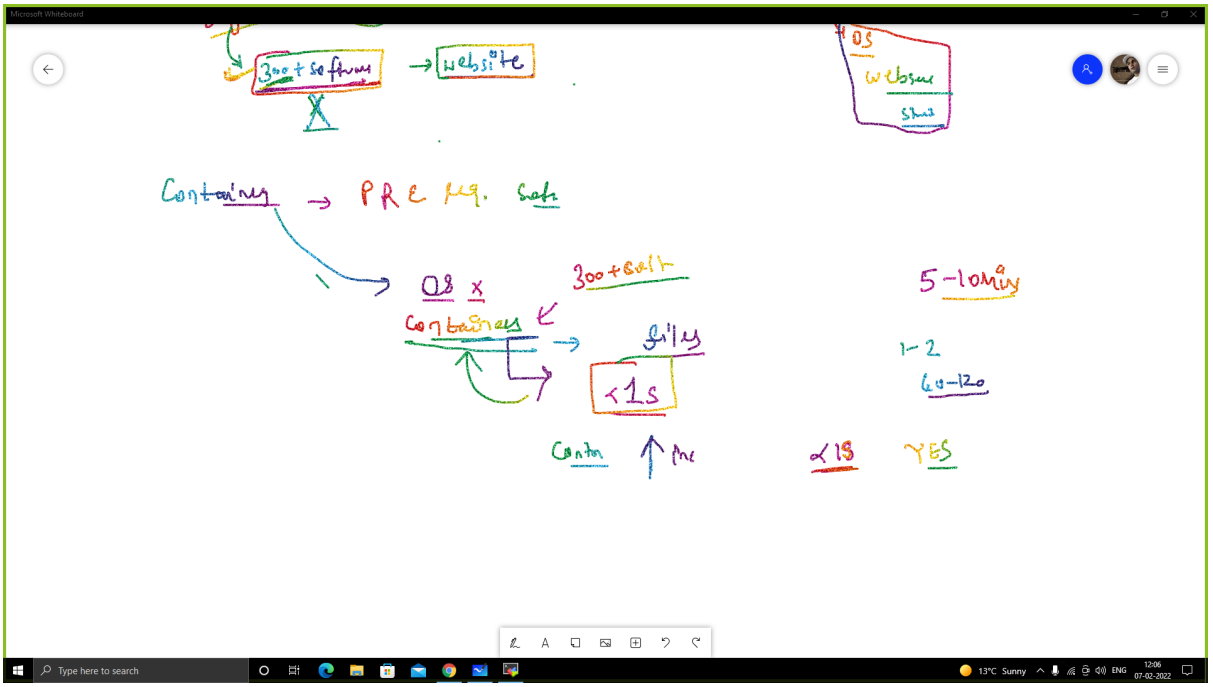
QA

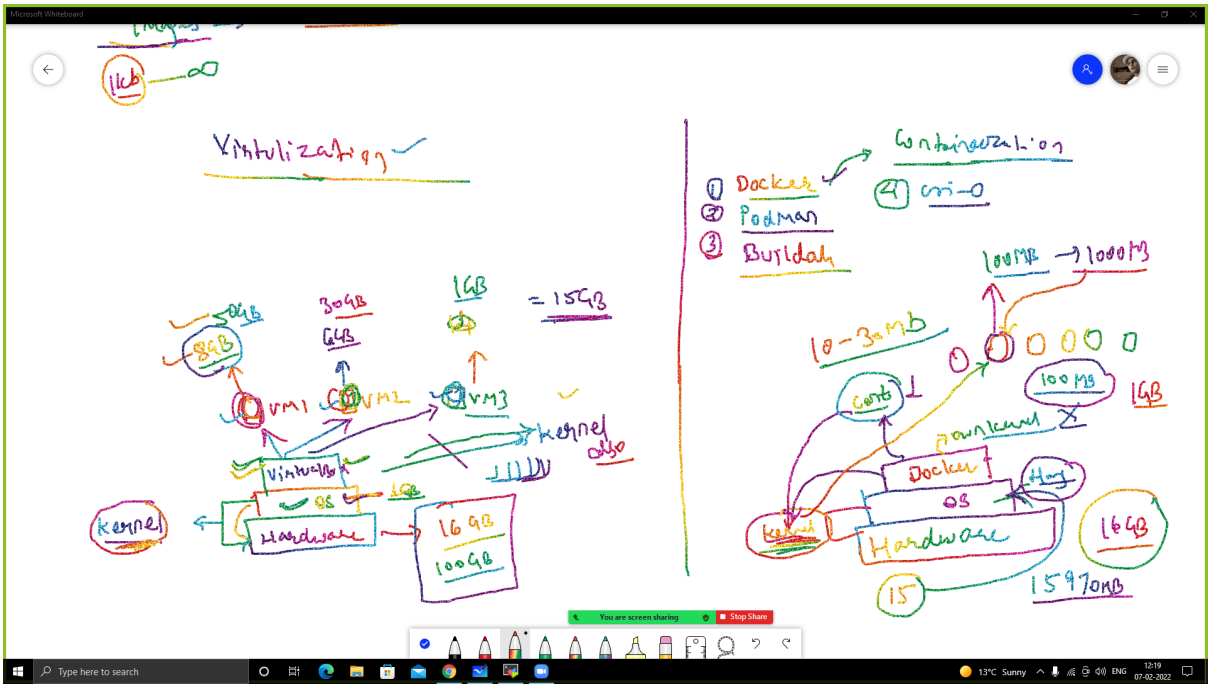

Microsoft Whiteboard
interactive
Notes
u guys
Google docs
Labs
MobAxterM
Docker & Kubernetes
10% theory
90% practicle
1980's
server
Linux
Mute
Start Video
Security
Participants
Chat
Polls
New Share
Pause Share
Annotate
Remote Control
More
You are screen sharing
Stop Share
Type here to search
13°C Sunny
ENG
12:06
07-02-2022


Microsoft Whiteboard
Docker & Kubernetes
10% theory
90% practicle
1980's
server
website
increase
Hardware
1-2 days
Serverdown
XYZ.com
2000's
Virtulization
server
VM
5-10 min
30-35 min
lot of
2013 → March
Containerization
Type here to search
13°C Sunny
ENG
12:06
07-02-2022


Microsoft Whiteboard
Hardw
2000's
Virtulization
server
1 VM
2 VM
5-10 min
30-35 min
5-10 mins
lot of reso
2013 → March
Containerization
website
Gui
Browser
Notepad
Microsoft office
1 OS
2 server
3 Code
4 Start
45 mins
1 hr
Php
Python
Php code
website
.exe
1 .iso image file
Type here to search
13°C Sunny
ENG
12:06
07-02-2022


Microsoft Whiteboard
Gui
Browser
Notepad
Microsoft office
3 Code
4 Start
Php
Python
Php code
website
.exe
1 .iso image file
win
4GB
Softwares
PD
Bootable
laptop
30-40 mins
OS
website
Start
300+ softwares
website
Containers
PRE req. Soft
5-10 mins
Type here to search
13°C Sunny
ENG
12:06
07-02-2022






```
8  yum install docker -y
  9  systemctl status  docke
 10  systemctl status  docker
 11  systemctl  start docker
 12  systemctl status  docker
 13  docker info
```

```
  14  uname -r
  15  docker info | grep -i kernel
  16  free -m
  17  docker info
  18  history
```

Task : 1

Q.1 install docker and start the service
Q.2 check docker info command and verify when ther docke is using the same kernel version or not

Q.3 find out from google – how to download docker image

```
   8  docker search ubuntu
   9  docker pull   ubuntu
  10  docker images
  11  docker pull   hello-world
  12  docker images
  13  docker run  hello-world
  14  docker ps
  15  docker ps -a
  16  docker run  ubuntu
  17  docker ps -a
  18  docker run  -it  ubuntu
  19  docker ps
  20  docker ps  -a
  21  docker start  stupefied_faraday
  22  docker ps
  23  docker run  -it  --name  mayank ubuntu
  24  docker ps
  25  docker ps -a
  26  docker rename stupefied_faraday oracle
  27  docker ps -a
```

```
  22  docker ps
  23  docker run  -it  --name  mayank ubuntu
  24  docker ps
  25  docker ps -a
  26  docker rename stupefied_faraday oracle
  27  docker ps -a
  28  history
  29  ip a
```

```
30  yum install httpd -y
31  cd /var/www/html/
33  vi index.html
34  systemctl start httpd
35  history
```

```
7  pwd
 8  docker search ubuntu
 9  docker pull   ubuntu
10  docker images
11  docker pull   hello-world
12  docker images
13  docker run  hello-world
14  docker ps
15  docker ps -a
16  docker run  ubuntu
17  docker ps -a
18  docker run  -it  ubuntu
19  docker ps
20  docker ps  -a
21  docker start  stupefied_faraday
22  docker ps
23  docker run  -it  --name  mayank ubuntu
24  docker ps
25  docker ps -a
26  docker rename stupefied_faraday oracle
27  docker ps -a
28  history
29  ip a
30  yum install httpd -y
31  cd /var/www/html/
32  vi index/html
33  vi index.html
34  systemctl start httpd
35  history
36  curl ifconfig.me
37  cd
38  curl 3.221.149.42
39  docker run -it centos
40  docker run -it --name webapp debian
41  docker ps -a
42  history
```

Q.1 try to download images from docker hub

Ubuntu
Centos
Hello-world
mdhack/myserver
mdhack/myapache

Q.2 create a container using every image and u should need to give an container name to every container

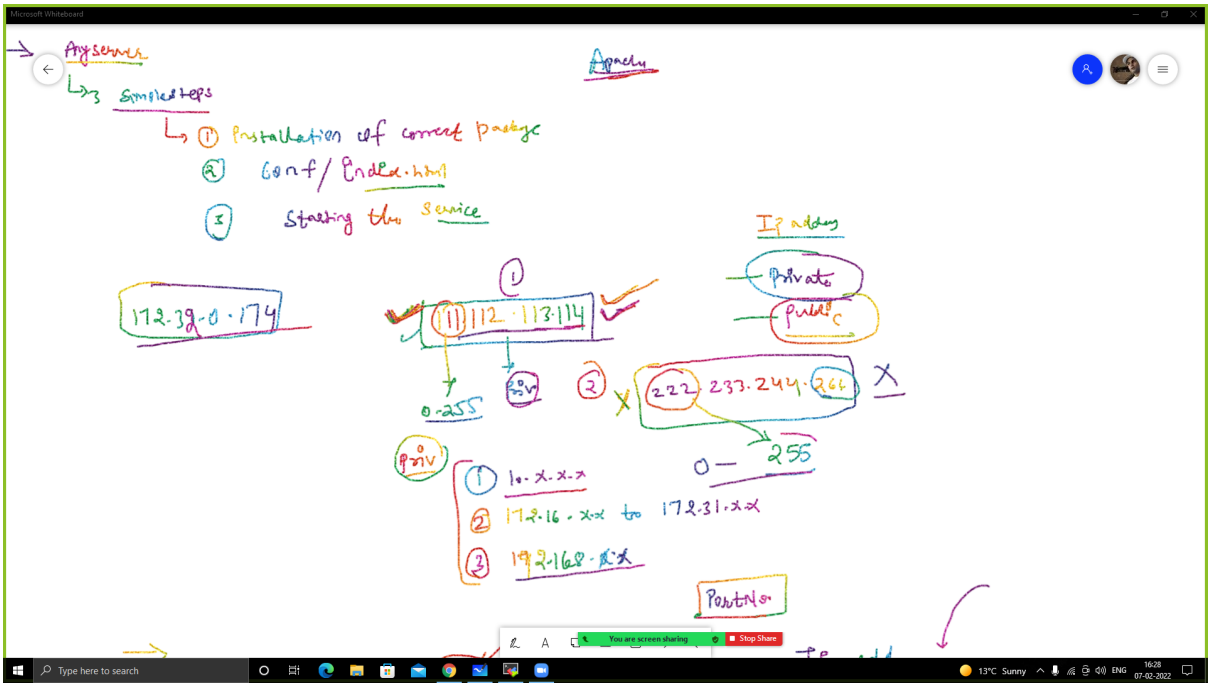
Q.3 create a new container named as test1 using debian image and configur apache server inside that.

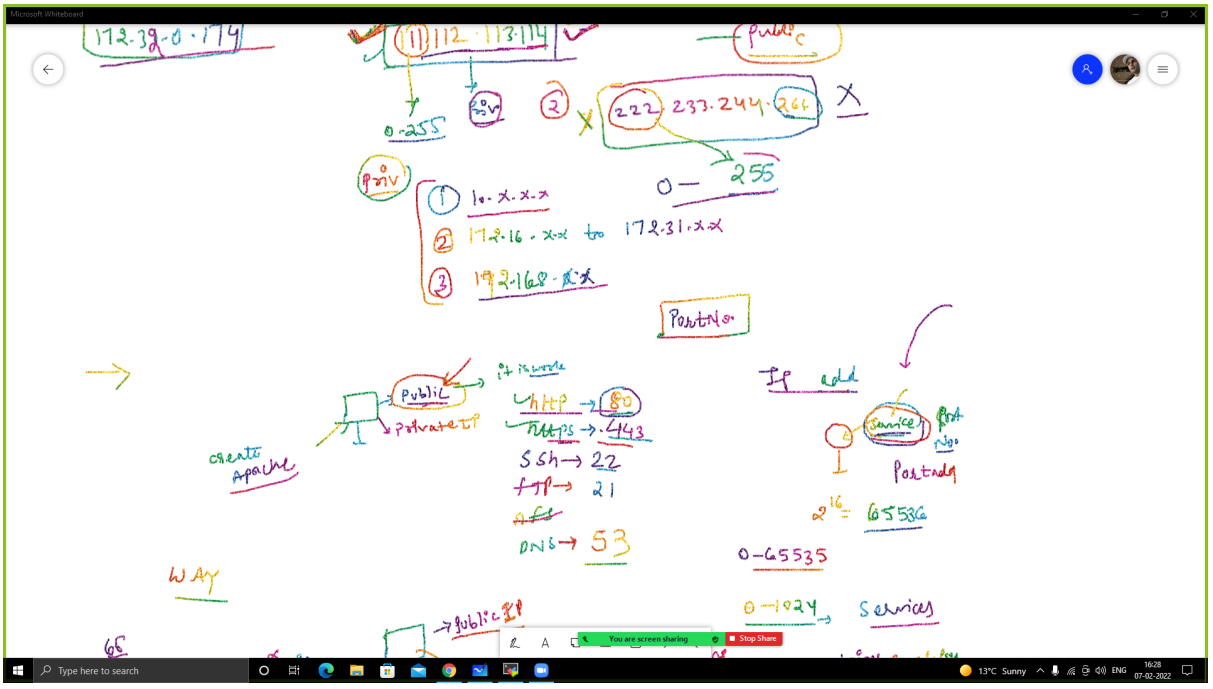
Apt update && apt install apache2

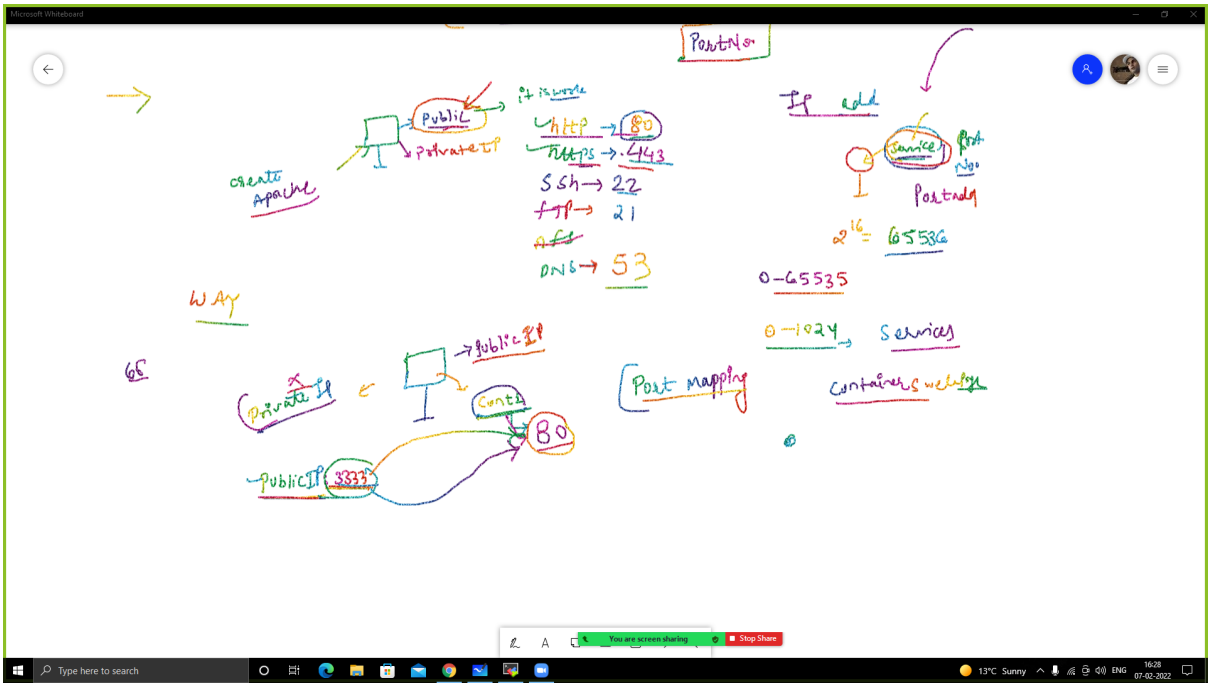
Cd /var/www/html/
Echo code > /var/www/html/index.html
Service apache2 start

```
 39  docker run -it centos
 40  docker run -it --name webapp debian
 41  docker ps -a
 42  history
 43  docker ps
 44  docker ps  -a
 45  docker start  webapp
 46  docker ps  -a
 47  docker ps
 48  docker attach webapp
 49  docker ps
 50  docker ps  -a
 51  docker start  webapp
 52  docker ps
 53  docker exec   -it  webapp date
 54  docker exec   -it  webapp cal
 55  docker exec   -it  webapp ls
 56  docker exec   -it  webapp bash
 57  docker ps
 58  docker inspect  webapp
```

```
38  curl 3.221.149.42
 39  docker run -it centos
 40  docker run -it --name webapp debian
 41  docker ps -a
 42  history
 43  docker ps
 44  docker ps  -a
 45  docker start  webapp
 46  docker ps  -a
 47  docker ps
 48  docker attach webapp
 49  docker ps
 50  docker ps  -a
 51  docker start  webapp
 52  docker ps
 53  docker exec   -it  webapp date
 54  docker exec   -it  webapp cal
 55  docker exec   -it  webapp ls
 56  docker exec   -it  webapp bash
 57  docker ps
 58  docker inspect  webapp
 59  history
 60  docker run -it --name test2  -p  3333:80  debian
 61  docker run -it --name oracleapache  -p 3334:80  oraclelinux:8.3
 62  docker run -it --name oracleapache  -p 3335:80  httpd
 63  docker run -it --name oracleapache2  -p 3336:80  httpd
 64  docker ps
 65  docker ps -a
 66  docker run -it --name nginx  -p 3337:80  nginx
 67  docker run -itd  --name myserver  -p 3338:80  mdhack/myserver
 68  docker run -itd  --name myserver1  -p 3339:80  mdhack/myapache
```


Microsoft Whiteboard
Any server
3 Simple steps
1 Installation of correct package
2 Conf/Index.html
3 Starting the service
Apache
IP address
Private
Public
172.39.0.174
1 112.113.114
0-255
Priv
2 222.233.244.266
0 — 255
Priv
1 10.x.x.x
2 172.16.x.x to 172.31.x.x
3 192.168.x.x
Port No.
You are screen sharing
Stop Share
Type here to search
13°C Sunny
ENG
16:28
07-02-2022


Microsoft Whiteboard
172.39.0.174
1 112.113.114
Public
0-255
Priv
2 222.233.244.266
0 — 255
Priv
1 10.x.x.x
2 172.16.x.x to 172.31.x.x
3 192.168.x.x
Port No.
Public
it is work
Private IP
create Apache
http → 80
https → 443
SSh → 22
FTP → 21
DNS → 53
IP add
Service
Port No.
Port add
2^16 = 65536
0-65535
0-1024 → Services
WAY
Public IP
You are screen sharing
Stop Share
Type here to search
13°C Sunny
ENG
16:28
07-02-2022



Q.1 create a container using oraclelinux:8.3 image and configure apache inside into it and come out from the container and then use exec command to go inside into the container

name should be task1

Q.2 create a container using same image as above and expose it on 3333 port no. and configure apache into it so u can verify from ur browser whether it is working or not name should be task2

Q.3 CREATE A CONtainer using httpd image and expose it on port no. 3334 name should be task3
Q.4 CREATE A CONtainer using nginx image and expose it on port no. 3335 name should be task4
Q.5 CREATE A CONtainer using mdhack/myapache image and expose it on port no. 3336 name should be task5
Q.6 CREATE A CONtainer using mdhack/myserver image and expose it on port no. 3336 name should be task5