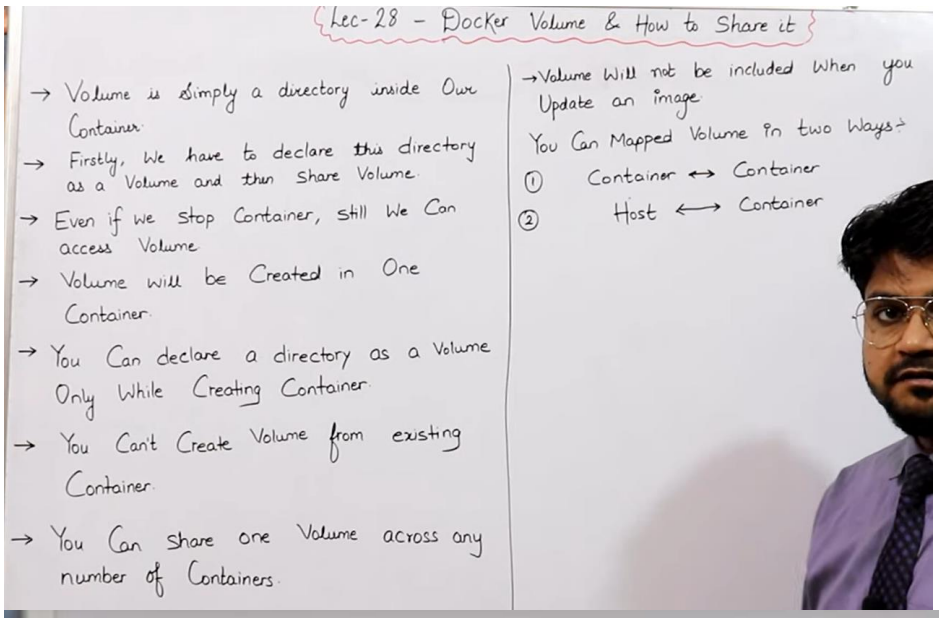
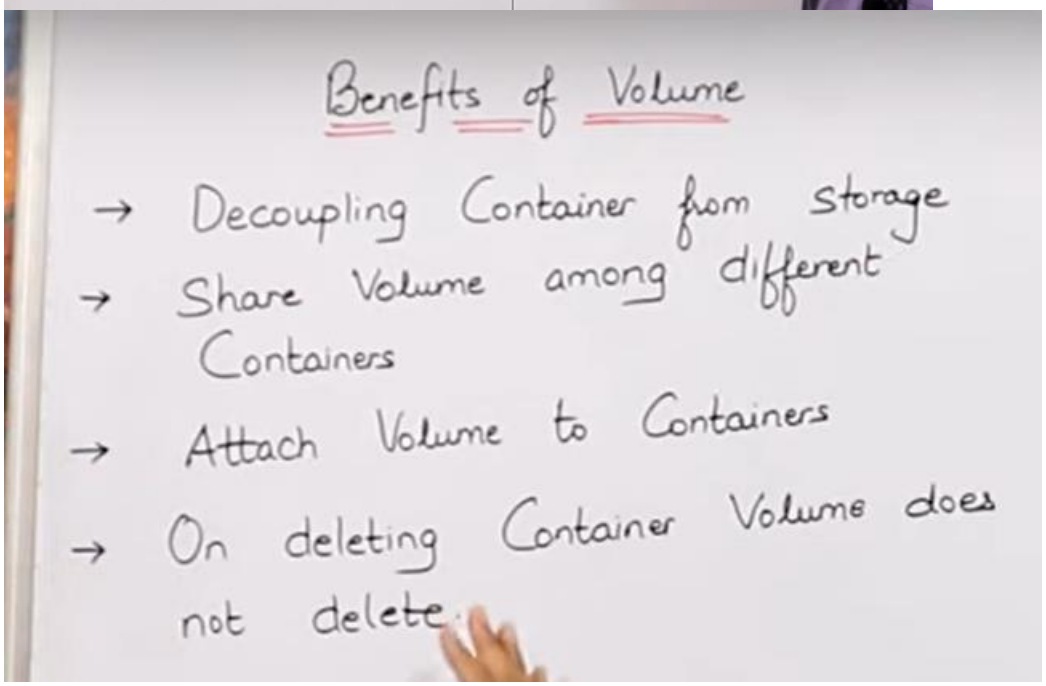
Container gets deleted but volume doesn't gets deleted .
Container to container , host to container ,





Creating Volume from Dockerfile

① Create a Dockerfile and Write

```
FROM ubuntu
VOLUME ["/myvolume1"]
```

Then Create image from this dockerfile

→ `docker build -t myimage .`

Now Create a Container from this image & Run

```
docker run -it --name container1 myimage
/bin/bash
```

Now do ls, you Can see myvolume1

Now, Share Volume with another Container

Container ⟷ Container

→ `docker run -it --name container2 (new) --privileged=true --volumes-from container1 ubuntu /bin/bash`

Now after Creating Container2, myvolume1 is visible. Whatever you do in One Volume, Can see from other Volume.

→ `touch /myvolume1/Samplefile`

→ `docker start Container1`

→ `docker attach Container1`

→ `ls/myvolume1`

you Can see Samplefile here

exit

--privileged true to give permission to container2 for volume .

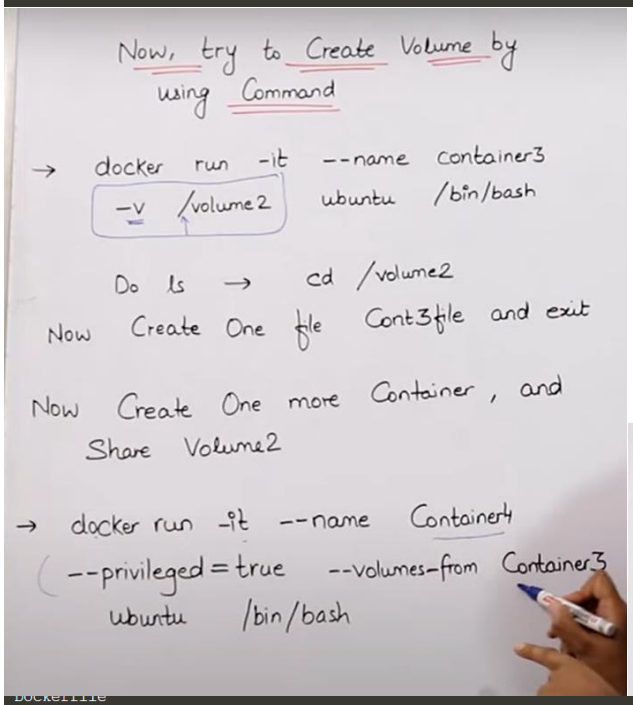
Dockerfile

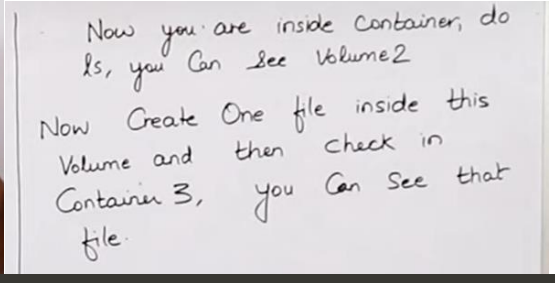
```
1  FROM ubuntu
2  VOLUME ["/myvolume"]
```

```
root@host01:~/workspace$ docker build -t myimage .
[+] Building 185.7s (5/5) FINISHED
 => [internal] load .dockerignore
 => => transferring context: 2B
 => [internal] load build definition from Dockerfile
 => => transferring dockerfile: 69B
 => [internal] load metadata for docker.io/library/ubuntu:lat
 => [1/1] FROM docker.io/library/ubuntu@sha256:67211c14fa74f0
 => => resolve docker.io/library/ubuntu@sha256:67211c14fa74f0
 => => sha256:08d22c0ceb150ddeb2237c5fa3129c0183f3cc6f5eeb2e7
 => => sha256:2ab09b027e7f3a0c2e8bb1944ac46de38cebab7145f0bd6
 => => sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3
 => => sha256:7a57c69fe1e9d5b97c5fe649849e79f2cfc3bf11d10bbd5
 => => extracting sha256:2ab09b027e7f3a0c2e8bb1944ac46de38ceb
 => exporting to image
 => => exporting layers
 => => writing image sha256:8419955127158a7c4cd62a0d83b36a530
 => => naming to docker.io/library/myimage
root@host01:~/workspace$
```

```
root@host01:~/workspace$ docker run -it --name sapna myimage:latest /bin/bash
root@6cc6bc29b549:/# ls
bin  boot  dev  etc  home  lib  lib32  lib64  libx32  media  mnt  myvolume  opt  proc  root  run  sbin  srv  sys  tmp  usr  var
root@6cc6bc29b549:/#
```

```
root@host01:~/workspace$ docker run -it --name sapna1 --privileged=true --volumes-from sapna myimage:latest /bin/bash
root@c6358f07a146:/# ls
bin  boot  dev  etc  home  lib  lib32  lib64  libx32  media  mnt  myvolume  opt  proc  root  run  sbin  srv  sys  tmp  us
root@c6358f07a146:/# cd myvolume/
root@c6358f07a146:/myvolume# ls
v1  v2  v3
root@c6358f07a146:/myvolume# exit
exit
root@host01:~/workspace$
```

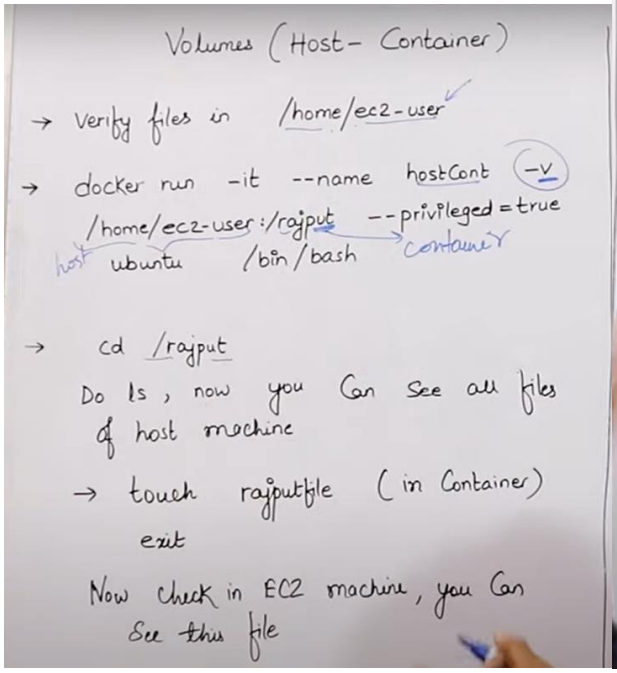


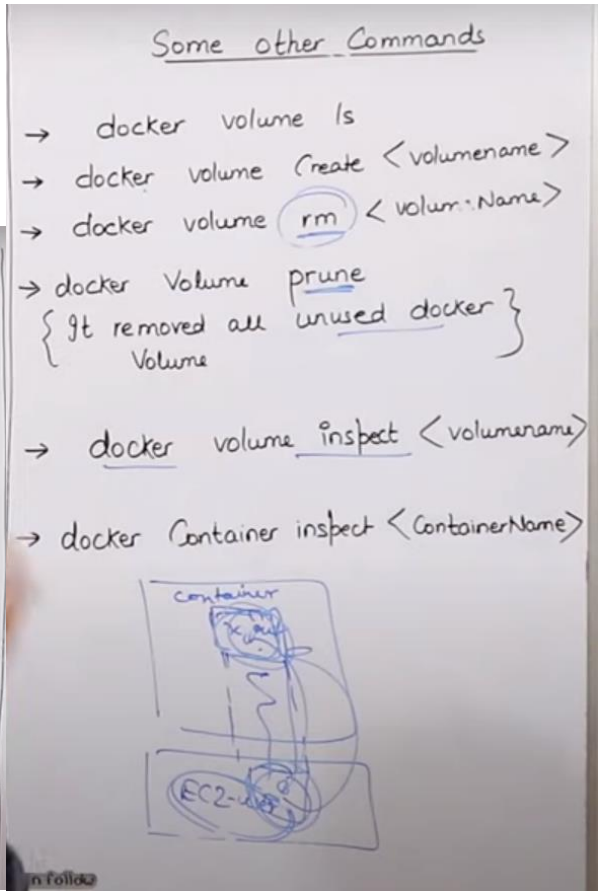



```
root@host01:~/workspace$ docker run -it --name sapna2 -v /volume2 ubuntu /bin/bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
2ab09b027e7f: Already exists
Digest: sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3babc295a0428a6d21
Status: Downloaded newer image for ubuntu:latest
root@e4cb388b4965:/# ls
bin  boot  dev  etc  home  lib  lib32  lib64  libx32  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr  var  volume2
root@e4cb388b4965:/# cd v
bash: cd: v: No such file or directory
root@e4cb388b4965:/# cd volume2/
root@e4cb388b4965:/volume2# ls
root@e4cb388b4965:/volume2# touch v1 v2 v3
root@e4cb388b4965:/volume2# ls
v1  v2  v3
root@e4cb388b4965:/volume2# exit
exit
root@host01:~/workspace$ docker run -it --name sapna3 --privileged=true --volumes-from sapna2 ubuntu /bin/bash
root@bc16c35363a2:/# ls
bin  boot  dev  etc  home  lib  lib32  lib64  libx32  media  mnt  opt  proc  root  run  sbin  srv  sys  tmp  usr
root@bc16c35363a2:/# cd volume2/
root@bc16c35363a2:/volume2# ls
v1  v2  v3
root@bc16c35363a2:/volume2#
```

```
root@bc16c35363a2:/volume2# ls
v1  v2  v3
root@bc16c35363a2:/volume2# touch v4
root@bc16c35363a2:/volume2# exity
bash: exity: command not found
root@bc16c35363a2:/volume2# exit
exit
root@host01:~/workspace$ docker start sapna2
sapna2
root@host01:~/workspace$ docker attach sapna2
root@e4cb388b4965:/# ls
bin  boot  dev  etc  home  lib  lib32  lib64  libx32  med
root@e4cb388b4965:/# cd volume2/
root@e4cb388b4965:/volume2# ls
v1  v2  v3  v4
root@e4cb388b4965:/volume2#
```

Files we created in containers are now shared between containers .





```
Dockerfile
root@host01:~/workspace$ pwd
/root/workspace
root@host01:~/workspace$ docker run -it --name hostcont -v /root/workspace:/sapna --privileged=true ubuntu /bin/bash
Unable to find image 'ubuntu:latest' locally
latest: Pulling from library/ubuntu
2ab09b027e7f: Pull complete
Digest: sha256:67211c14fa74f070d27cc59d69a7fa9aeff8e28ea118ef3babc295a0428a6d21
Status: Downloaded newer image for ubuntu:latest
root@e8ae8bacb560:/# ls
bin  boot  dev  etc  home  lib  lib32  lib64  libx32  media  mnt  opt  proc  root  run  sapna  sbin  srv  sys  tmp  usr  va
root@e8ae8bacb560:/# cd sapna
root@e8ae8bacb560:/sapna# ls
Dockerfile
root@e8ae8bacb560:/sapna# exit
exit
root@host01:~/workspace$ ls
Dockerfile
root@host01:~/workspace$
```

```
root@host01:~/workspace$ docker start hostcont
hostcont
root@host01:~/workspace$ docker attach hostcont
root@e8ae8bacb560:/# ls
bin  boot  dev  etc  home  lib  lib32  lib64  li
root@e8ae8bacb560:/# cd sapna
root@e8ae8bacb560:/sapna# ls
Dockerfile
root@e8ae8bacb560:/sapna# touch new
root@e8ae8bacb560:/sapna# ls
Dockerfile  new
root@e8ae8bacb560:/sapna# exit
exit
root@host01:~/workspace$ ls
Dockerfile  new
root@host01:~/workspace$
```