Volume

Volume Inspect docker volume inspect data_volume { "CreatedAt": "2020-01-20T19:52:34Z", "Driver": "local", "Labels": {}, "Mountpoint": "/var/lib/docker/volumes/data_volume/_data", "Name": "data_volume", "Options": {}, "Scope": "local" } }

Lab:

crate a volume name testvol-1
create a container with this testvol-1
create another container with this volume but give only read permission
delete the volume but before need to delete the container
create a folder
create a container and mount this folder
create another container and share the same folder

```
#docker volume Create testvol-1
#docker volume ls
#docker container run -itd --name=test -v testvol-1:/rajiv centos:7
#docker container ls -1
#docker exec -it test /bin/bash
#dh -h

create 2 files in this location
#cd /rajiv
#echo rajiv > a.txt
#echo siddiqui > b.txt

now stop and delete the container
#docker container stop container-id
#docker container run container-id
#docker volume ls
#docker volume inspect testvol-1
#cd /var/lib/docker/volumes/testvol-1/_data
#sudo ls -lrt /var/lib/docker/volumes/testvol-1/_data

Crate another container with this volume
#docker container run -itd --name=testagain --mount source=testvol-1,destination=/rajiv centos:7
#docker ps
#docker exec -it 6e86 /bin/bash
#exit
#docker volume remove testvol-1
#docker son fe c7
#docker volume remove testvol-1
```

```
#docker volume prune
#docker volume ls
#docker volume rm d5c8d93ac94be4b69d82e0e31372b1e688ebd426f3f56fa1f469124d62dbac34
#docker volume prune
#docker volume prune
#docker volume create vol-1
#docker container run -itd --name=readonly --mount source=vol-1,destination=/rajiv,readonly centos:7
#dcoker ps
#dcoker ps
#docker container inspect e12
#pwd
```

Bind mount:

```
#mkdir /data
#sudo mkdir /data
#ls /data
#locker container run -itd --name=read-1 --mount type=bind,source=/data,destination=/rajiv centos:7
#docker container exec -it read-1 /bin/bash
#df -h
#cd /rajiv
#echo "rajiv" >r.txt
#ll
#exit
#cd /data
#ll

Now we create another container use the same volume /data
#docker container run -itd --name=read-2 --mount type=bind,source=/data,destination=/rajiv centos:7
#docker container exec -it read-2 /bin/bash
#df -h
#cd /rajiv
#echo "siddiqui" >s.txt
#ll
#exit
#echo "siddiqui" >s.txt
#ll
#exit
#exit
#exit
#exit
#cd /data
#ll
Now we can see both r.txt and s.txt file is showing.
```

Delete the volume

#docker volume remove testvol-1

We can also search in mount by following command

#df -h | grep -i /rajiv