Volume Use Case

Point 1: Create a Docker File like

```
bhushan@ubuntu:~/Docker-Pract$ vi Dockerfile
bhushan@ubuntu:~/Docker-Pract$ cat Dockerfile
FROM ubuntu
VOLUME ["/myvol"]
```

Point 2: Create bpt image from the above Dockerfile

```
ker-Pract$ docker build -t bpt image .
Sending build context to Docker daemon 6.144kB
Step 1/2 : FROM ubuntu
 ---> 08d22c0ceb15
Step 2/2 : VOLUME ["/myvol"]
 ---> Running in 54d9a479a4a9
Removing intermediate container 54d9a479a4a9
 ---> 8060dc4d7b4b
Successfully built 8060dc4d7b4b
Successfully tagged bpt_image:latest
bhushan@ubuntu:~/Docker-Pract$ docker images
REPOSITORY
                          IMAGE ID
                TAG
                                          CREATED
                                                            SIZE
bpt_image
                latest
                           8060dc4d7b4b
                                          46 seconds ago
                                                             77.8MB
                          43655163b282 14 hours ago
24f44ea06409 14 hours ago
cust_nginx
                                                             237MB
cust_nginx
                v2
                                                             237MB
cust_nginx
bpt_image
                v1
                           d1db1b99bccc
                                          14 hours ago
                                                            237MB
                                          15 hours ago
                V1
                           22010236136a
                                                             77.8MB
pratik_image
                latest
                           c4f518be9c8d
                                          24 hours ago
                                                            231MB
somnath_image
                 latest
                           8b81933ccb1d
                                          24 hours ago
                                                             77.8MB
                 latest
                           080ed0ed8312
                                           43 hours ago
                                                             142MB
nginx
                 latest
                           08d22c0ceb15
                                           3 weeks ago
                                                             77.8MB
```

Point 3: Now Create container having name old_container from the bpt_image. After creating, check whether myvol is present in the directory structure or not. If present go inside the myvol directory. Create 4 files inside the myvol directory.

```
bhushan@ubuntu:~/Docker-Pract$ docker run -it --name old_container bpt_image:latest /bin/bash
root@6bcca08a17b2:/# ls
bin boot dev etc home lib lib32 lib64 libx32 media mnt myvol opt proc root run sbin srv sys usr var
root@6bcca08a17b2:/# cd myvol/
root@6bcca08a17b2:/myvol# touch {1..4}.txt
root@6bcca08a17b2:/myvol# ls
1.txt 2.txt 3.txt 4.txt
root@6bcca08a17b2:/myvol# exit
exit
```

Point 4: Now, create another container having name new_container and specify privileged is true and share the old container volume to this new container for that use -volumes-from argument. After creation of new_container check whether myvol directory is reflect or not. Go inside the myvol and check whether all files are present or not.

```
bhushangubuntu:~/Docker-Pract$ docker run -it --name new_container --privileged=true --volumes-from old_container ubuntu /bin/bash root@875cbb9600de:/# ls
bin boot dev etc home lib lib32 lib64 libx32 media mnt myvol opt proc root run sbin srv sys usr var root@875cbb9600de:/# cd myvol/
root@875cbb9600de:/myvol# ls
1.txt 2.txt 3.txt 4.txt
root@875cbb9600de:/myvol# exit
exit
```

Point 5: Now, start the old container and go inside that container. Check myvol directory. Go inside the myvol and create one 1.html here.

```
bhushan@ubuntu:~/Docker-Pract$ docker start old_container
old_container
bhushan@ubuntu:~/Docker-Pract$ docker attach old_container
root@6bcca08a17b2:/# ls
bin boot dev etc home lib lib32 lib64 libx32 media mnt myvol opt proc root run sbin srv sys tmp usr var
root@6bcca08a17b2:/# cd myvol/
root@6bcca08a17b2:/myvol# ls
1.txt 2.txt 3.txt 4.txt
root@6bcca08a17b2:/myvol# touch 1.html
root@6bcca08a17b2:/myvol# exit
exit
```

Point 6: Now, start the new container and go inside that container. Check myvol directory. Go inside the myvol and check whether new created file 1.html is reflect here or not. If it is reflected then it means that we can share directory from container to container by using VOLUME. If we change inside the directory it will reflected inside the container.

```
bhushan@ubuntu:-/Docker-Pract$ docker start new_container
new_container
bhushan@ubuntu:-/Docker-Pract$ docker attach new_container
root@875cbb9600de:/# ls
bin boot dev etc home lib lib32 lib64 libx32 media mnt myvol opt proc root run sbin srv sys usr var
root@875cbb9600de:/# cd myvol/
root@875cbb9600de:/myvol# ls
1.html 1.txt 2.txt 3.txt 4.txt
root@875cbb9600de:/myvol#
```

Note:- All the changes are reflected vice versa also.