

# Experiment 2: Docker Volume

## Aim

To use and understand Docker Volume. Create a shared volume between 2 containers to share files.

**Step:-1** Check any container is running or not by **docker ps** command

```
root@redhat:~  
File Edit View Search Terminal Help  
[root@redhat ~]# docker ps  
CONTAINER ID        IMAGE               COMMAND             CREATED  
STATUS             PORTS              NAMES  
[root@redhat ~]#
```

**Step:-2** Now, run a container of centos image with a volume

```
[root@redhat ~]# docker run -it -v myvol:/mnt --name C1 centos  
[root@14ef2e7ffc8a /]# ls  
bin  etc  lib  lost+found  mnt  proc  run  srv  tmp  var  
dev  home  lib64  media  opt  root  sbin  sys  usr  
[root@14ef2e7ffc8a /]#
```

**Step:-3** Now in mnt folder create some files

```
[root@14ef2e7ffc8a /]# cd mnt  
[root@14ef2e7ffc8a mnt]# touch mansi.txt abc.txt  
[root@14ef2e7ffc8a mnt]# ls  
abc.txt  mansi.txt  
[root@14ef2e7ffc8a mnt]#
```

**Step-4** Create another container with that volume which we have created while launching 1<sup>st</sup> container

```
@5fbc9667dbb5:/mnt
File Edit View Search Terminal Help
[root@redhat ~]# docker run -it -v myvol:/mnt --name C2 centos
[root@5fbc9667dbb5 /]# ls
bin  etc  lib  lost+found  mnt  proc  run  srv  tmp  var
dev  home lib64 media      opt  root  sbin sys  usr
```

**Step:-5** Now we can see that files created in 1<sup>st</sup> container are present in 2<sup>nd</sup> container

```
[root@5fbc9667dbb5 /]# cd mnt
[root@5fbc9667dbb5 mnt]# ls
abc.txt  mansi.txt
[root@5fbc9667dbb5 mnt]#
```

Inspecting the created volume myvol :-

```
[root@redhat ~]# docker volume inspect myvol
[
  {
    "CreatedAt": "2021-02-13T15:55:46+05:30",
    "Driver": "local",
    "Labels": null,
    "Mountpoint": "/var/lib/docker/volumes/myvol/_data",
    "Name": "myvol",
    "Options": null,
    "Scope": "local"
  }
]
[root@redhat ~]#
```

Going to the location of volume and checking the created files :-

```
[root@redhat ~]# ls /var/lib/docker/volumes/myvol/_data  
abc.txt  mansi.txt  
[root@redhat ~]#
```