EXPERIMENT 3

AIM : Working with docker volume

1. View all volume in docker.

Command : docker volume ls

```
vishalthakur@vishals-MacBook-Air ~ % docker volume ls
DRIVER    VOLUME NAME
local     d41816670e097ffe91319c99ec9096b9cf9f8154e49dc8b2ea96946770f32cf3
local     myvol
```

2. Create a new volume

Command : docker volume create myvol2

```
vishalthakur@vishals-MacBook-Air ~ % docker volume ls
DRIVER    VOLUME NAME
local     d41816670e097ffe91319c99ec9096b9cf9f8154e49dc8b2ea96946770f32cf3
local     myvol
local     myvol2
```

3. Mount a volume with a container

Command : docker run -it -v myvol2:/data redis /bin/bash

```
vishalthakur@vishals-MacBook-Air ~ % docker run -it -v myvol2:/data redis /bin/bash
root@80cee310ac27:/data# mkdir test
root@80cee310ac27:/data# ls
test
root@80cee310ac27:/data#
```

4. Create another container and mount with the same volume

Command : docker run -it -v myvol2:/data redis /bin/bash

```
vishalthakur@vishals-MacBook-Air ~ % docker run -it -v myvol2:/data redis /bin/bash
root@80cee310ac27:/data# mkdir test
root@80cee310ac27:/data# ls
test
root@80cee310ac27:/data#
```

5. See the complete working of Container

```
vishalthakur@vishals-MacBook-Air ~ % docker run -it -v myvol2:/data redis /bin/bash
root@80cee310ac27:/data# mkdir test
root@80cee310ac27:/data# ls
test
root@80cee310ac27:/data#
```

6. Exited from the container and restart again to see the persistent of docker volume

Command : docker start (container id)

docker attach (container id)

```
vishalthakur@vishals-MacBook-Air ~ % docker run -it -v myvol2:/data redis /bin/bash
root@80cee310ac27:/data# mkdir test
root@80cee310ac27:/data# ls
test
root@80cee310ac27:/data# exit
exit
vishalthakur@vishals-MacBook-Air ~ % docker ps -a\
>
vishalthakur@vishals-MacBook-Air ~ % docker ps -a
CONTAINER ID   IMAGE   COMMAND                CREATED         STATUS                      PORTS      NAMES
80cee310ac27   redis   "docker-entrypoint.s…"  11 minutes ago  Exited (0) 30 seconds ago              great_pasteur
fa5e6f18080a   redis   "docker-entrypoint.s…"  5 days ago      Exited (127) 5 days ago               wizardly_nash
07c767ceb1a6   redis   "docker-entrypoint.s…"  5 days ago      Exited (12) 5 days ago                vibrant_cerf
81df48fc41e6   redis   "docker-entrypoint.s…"  5 days ago      Exited (11) 5 days ago                upbeat_jackson
423bec019fc9   redis   "docker-entrypoint.s…"  5 days ago      Exited (255) 33 minutes ago  6379/tcp  blissful_murdock
69a26b6f07be   redis   "docker-entrypoint.s…"  5 days ago      Exited (0) 5 days ago                 adoring_margulis
1ab6e5b7bccd   redis   "docker-entrypoint.s…"  5 days ago      Exited (127) 5 days ago               youthful_chandrasekhar
vishalthakur@vishals-MacBook-Air ~ % docker start 80cee310ac27
80cee310ac27
vishalthakur@vishals-MacBook-Air ~ % docker attach 80cee310ac27
root@80cee310ac27:/data# ls
test
```

Difference between docker run and docker start is that docker run command always creates a new container which consumes space but using docker start we can relaunch the existing container just by putting their respective container id.

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