Name: Animesh Jain

Roll Number: R171218022

SAP ID: 500069453

Starting VM

\$ vagrant up

```
F:\first-vagrant>vagrant up

Bringing machine 'default' up with 'virtualbox' provider...

=>> default: Checking if box 'ubuntu/xenial64' version '20201104.0.0' is up to date...

=>> default: Clearing any previously set forwarded ports...

=>> default: Fixed port collision for 22 => 2222. Now on port 2200.

=>> default: Clearing any previously set network interfaces...

=>> default: Preparing network interfaces based on configuration...

default: Adapter 1: nat

=>> default: Forwarding ports...

default: Forwarding ports...

default: Running 'pre-boot' VM customizations...

=>> default: Booting VM...

=>> default: Booting VM...

=>> default: SSH address: 127.0.0.1:2200

default: SSH username: vagrant

default: SSH username: vagrant

default: Warning: Connection aborted. Retrying...

default: Warning: Remote connection disconnect. Retrying...

=>> default: The guest additions on this VM do not match the installed version of

default: The guest additions on this VM do not match the installed version of

default: VirtualBox! In most cases this is fine, but in rare cases it can
```

Listing all the volumes in docker and inspecting a volume

\$ docker volume Is

Running an Alpine Image

\$ docker run alpine

```
al:-$ docker ps
IMAGE COMMAND
al:-$ docker ps -a
IMAGE COMMAND
alpine "/bin/sh"
alpine "/bin/sh"
redis "docker-entr
redis "docker-entr
redis "docker-entr
redis "docker-entr
ubuntu "/bin/bash"
al:-$ docker run -it alpine
  ONTAINER ID
                                                                                                                                                                                                                               CREATED
                                                                                                                                                                                                                                                                                                            STATUS
                                                                                                                                                                                                                                                                                                                                                                                         PORTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAMES
                                                                                                                                                                                                                                           CREATED

About a minute ago
8 minutes ago
2 months ago
vagrant@ubunt
CONTAINER ID
91a9d32caea6
a7ca31cdaebc
fc5214159b1b
dd09f62b7568
                                                                                                                                                                                                                                                                                                                                   STATUS
Exited
Exited
Exited
Exited
Exited
Exited
Exited
Exited
Exited
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAMES
compassionate_colden
pedantic_tereshkova
test
                                                                                                                                                                                                                                                                                                                                                                                                                                                     PORTS
                                                                                                                                                                                                                                                                                                                                                             (0) 14 seconds ago
(0) 8 minutes ago
(0) 2 months ago
(0) 2 months ago
(255) 29 minutes ag
(0) 2 months ago
(0) 2 months ago
(0) 2 months ago
(0) 2 months ago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 test
sharp_keller
gifted_murdock
infallible_swartz
trusting_blackwell
trusting_chandrasekhar
  ce4825d6132
89295354bd4
                                                                                                                                                                                                                                                                                                                                                                                                                                                    6379/tcp
  e6d810bd42a
fd9d26742ee
  agrant@ubun
# cd mnt
mnt # ls
mnt # exit
                                           tu-xenial:~$ docker run -it -v myvol:/mnt alpine
```

Creating some files in that alpine cont.

\$ docker run -it -v myvol:/mnt alpine

```
al:~$ docker run -it -v myvol:/mnt alpine
   # 1s
   in
# ls
/ # 1s
bin dev etc
/ # cd mnt
/mnt # 1s
/mnt # touch a.txt
/mnt # touch b.txt
/mnt # ls
a.txt b.txt
/mnt # exit
                       ntu-xenial:~$ docker ps
D IMAGE
 CONTAINER ID
                                                                               COMMAND
                                                                                                                                                               STATUS
                                                                                                                                                                                                       PORTS
                                                                                                                                                                                                                                               NAMES
                                                                                                                       CREATED
            t@ubuntu-xenial:~$ docker run -it -v myvol:/mnt alpine
  agrant
# ls
bin dev
/ # cd mnt
/mnt # ls
a.txt b.txt
/mnt # exit
  agrant@ubuntu-xenial:∼$ docker run -it alpine
# cd mnt
/mnt # ls
/mnt # exit
  agrant@ubuntu-xenial:~$ docker volume ls
RIVER VOLUME NAME
ocal 84b27a886a4606b3ae662f1128af362e3ba98e6f7c69ecd95d2616511c7e3275
local
                                       04027.48060449601346002.112841.362250430691.7059Ctu3910216511C763273
7159a9eaca4ace48a606f9b4caa699fb32a4ddb4b5a2621d1696b24275387414c
614531430a43274c4e256347bdadf770d2a858ac7faca8094a84613dc7f5c7fe
d8774dcbbc276d80b3ac096f9220b6c79c03336f9c040ac77421875dd8d42f04
local
           myvol
nt@ubuntu-xenial:~$ docker volume inspect myvol
local
                "CreatedAt": "2021-01-29T06:20:39Z",
"Driver": "local",
               Treateaxt: 2021-01-29106:20:392,
"Driver: "local",
"Labels": null,
"Mountpoint": "/yar/lib/docker/volumes/myvol/_data",
"Name": "myvol",
"Options": null,
"Scope": "local"
```

Creating Container with Volume

\$ docker run –it –v myvol:/mnt –name c1 alpine

```
vagrant@ubuntu-xenial:~$ docker run -it -v myvol:/mnt --name c1 alpine
/ # cd mnt
/mnt # ls
a.txt b.txt
/mnt # ls
a.txt b.txt c.txt
/mnt # ls
a.txt b.txt c.txt
/mnt # ls
a.txt b.txt c.txt
```

In another instance of terminal, starting a VM and running docker in that

\$ docker run -it -v myvol:/mnt -name c2 alpine

All the files show synced up

\$ docker run -it -v myvol:/var ubuntu