EXPERIMENT 2

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: 22 (guest) => 2200 (host) (adapter 1)

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

=> default: Booting VM...

=> default: Waiting for machine to boot. This may take a few minutes...

default: SSH address: 127.0.0.1:2200

default: SSH address: 127.0.0.1:2200

default: SSH auth method: private key

default: Warning: Connection aborted. Retrying...

default: Machine booted and ready!

=> default: Machine booted and ready!

=> 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

```
taubuntu-xenial:-$ docker run alpine
to find image 'alpine:latest' locally
: Pulling from library/alpine
br9879: Pull complete
: sha256:8866ca16c6696-7499c03d10dc339d9fd8ea67c6466dea8d558526b1330a85930
: Downloaded newer image for alpine:latest
taubuntu-xenial:-$ docker ps
NER ID IMAGE
COMMAND CREATED

TAUBUN CREATED

TAUBUN CREATED

TOWN CREATED

TO SECOND CREATED

TO 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NAMES
pedantic_tereshkova
test
sharp_keller
gifted_mundock
infallible_swartz
trusting_blackwell
NTAINER ID
```

```
ONTAINER ID
                                                                                                                                                                                                                            CREATED
                                                                                                                                                                                                                                                                                                        STATUS
                                                                                                                                                                                                                                                                                                                                                                                    PORTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAMES
vagrant@ubunt
CONTAINER ID
D1a9d32caea6
a7ca31cdaebc
Fc5214159b1b
dd09f62b7568
ace4825d6132
989295354bd4
                                                                                                                                                COMMAND

"/bin/sh"

"/bin/sh"

"docker-entrypoint.s..."

"docker-entrypoint.s..."

"docker-entrypoint.s..."

"docker-entrypoint.s..."

"/bin/bash"
                                                                                                                                                                                                                                              CREATED
About a minute
8 minutes ago
2 months ago
                                                                                                                                                                                                                                                                                                                            STATUS
Exited (0) 14 seconds age
Exited (0) 8 minutes ago
Exited (0) 2 months ago
Exited (0) 2 months ago
Exited (255) 29 minutes
Exited (0) 2 months ago
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NAMES
compassionate_colden
pedantic_tereshkova
test
sharp_keller
gifted_murdock
infallible_swartz
trusting_blackwell
trusting_chandrasekhar
                                                                                                                                                                                                                                                                                                                                                                                                                                               6379/tcp
                                                                                                                                                                                                                                                                                                                                                                                                                        ago
 fd9d26742ee
                                                                             buntu "/bin/bash"
:~$ docker run -it alpine
                                       ntu-xenial:~$ docker run -it -v myvol:/mnt alpine
```

Creating some files in that alpine cont.

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

```
media
                                                                      media mnt
  # cd mnt
/mnt # 1s
/mnt # touch a.txt
/mnt # touch b.txt
/mnt # 1s
a.txt b.txt
/mnt # exit
                      ntu-xenial:~$ docker ps
D IMAGE
                                                                                COMMAND
                                                                                                                        CREATED
                                                                                                                                                                 STATUS
                                                                                                                                                                                                          PORTS
                       ntu-xenial:~$ docker run -it -v myvol:/mnt alpine
/ # cd mnt
/mnt # ls
a.txt b.txt
  mnt # exit
 ragrant@ubuntu-xenial:~$ docker run -it alpine
# cd mnt
/mnt # ls
/mnt # exit
  agrant@ubuntu-xenial:~$ docker volume ls
                                      al:-% docker volume is

VOLUME NAME

84b27a886a4606b3ae662f1128af362e3ba98e6f7c69ecd95d2616511c7e3275

7159a0eaca4ace48a606f9b4caa09fb32a4ddb4b5a2621d1696b24275387414c

614531430a43274c4e256347bdadf770d2a858ac7faca8094a84613dc7f5c7fe

d8774dcbbc276d80b3ac096f9220b6c79c03336f9c040ac77421875dd8d42f04
local
local
 .ocal myvol
/agrant@ubuntu-xenial:~$ docker volume inspect myvol
local
              "CreatedAt": "2021-01-29T06:20:39Z",
"Driver": "local",
"Labels": null,
"Mountpoint": "/var/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
/mnt # ls
```

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