#### Lab:2

## **Start Vagrant**

# \$ vagrant up

```
C:\Users\hp\vml>vagrant up

=> vagrant: A new version of vagrant js available: 2.2.14 (installed version: 2.2.10)!

=> vagrant: To Upgrade visit: https://www.vagrantup.com/downloads.html

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

=> default: A newer version of the box 'ubuntu/xenial64' version '2021006.0.0' is up to date...

=> default: A newer version of the box 'ubuntu/xenial64' reprovider 'virtualbox' is

=> default: A newer version of the box 'ubuntu/xenial64' version '2021016.0.0'. The latest is version

=> default: A newer version of the box 'ubuntu/xenial64' version '2021016.0.0'. The latest is version

=> default: 2021012.7.0'. Run vagrant box update to update.

=> default: Volume of vagrant box update to update.

=> default: Clearing any previously set forwarded perfaces.

=> default: Clearing any previously set forwarded perfaces.

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

default: Preparing network interfaces based on configuration...

default: Preparing network interfaces based on configuration...

default: Softwarder in rate default: Softwarder in the version of default: SSH audmention perfaces.

=> default: SSH audmention box update to default: SSH username: vagrant

default: SSH username: vagrant

default: SSH username: vagrant

default: SSH username: vagrant

default: The guest additions on this VM do not match the installed version of default: virtual Box! In most cases this is fine, but in rare cases it can default: virtual box! In most cases this is fine, but in rare cases it can default: virtual box! In most cases this is fine, but in rare cases it can default: virtual box! In most cases this is fine, but in rare cases it can default: virtual box! In most cases this is fine, but in rare cases it can default: virtual box! In most cases this is fine, but in rare cases it can default: virtual box! In most cases this is fine, but in rare cases it can default virtual box version: 5.1.38

default: Guest Additions version: 5.1.38

default: Guest Additio
```

# \$ vagrant ssh

```
default: Preparing network interfaces based on configuration...

default: default: default: forwarding perts...

default: forwarding perts...

default: Z2 (guest) => 2222 (host) (dapter 1)

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

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

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

default: S4 default: Waiting for machine to boot. This may take a few minutes...

default: S54 username: Vagrant

default: S54 username: Vagrant

default: S54 username and this Waiting for guest additions on this Waiting for guest additions within the default: The guest additions on this Waiting for guest additions within the default: virtual machine match the version of virtualBox you have installed on default: virtual machine match the version of virtualBox you have installed on default: virtual machine match the version of virtualBox you have installed on default: Waiting shared folders...

default: Waiting shared folders...

default: Machine already provisioned. Run 'vagrant provision' or use the '--provision'

default: Machine already provisioned. Run 'vagrant provision' or use the '--provision'

default: Machine already provisioned. Run 'vagrant provision' or use the '--provision'

default: Machine already provisioned. Run 'vagrant provision' or use the '--provision'

default: Machine already provisioned. Run 'vagrant provision' or use the '--provision'

default: Machine already provisioned. Run 'vagrant provision' or use the '--provision'

default: Machine already provisioned. Run 'vagrant provision' or use the '--provision'

default: Machine already provisioned. Run 'vagrant provision' or use the '--provision'

default: Machine already provisioned. Run 'vagrant provision' or use the '--provision' or use '---provision' o
```

# **Docker Installation**

- sudo apt install apt-transport-https ca-certificates curl software-properties-common
- curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
- sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu bionic test"
- sudo apt update
- sudo apt install docker-ce

#### **Check the Docker Version**

#### \$ docker --version



# \$ docker run -it -v myvol2:/mnt alpine

```
The state of the s
```

#### \$ docker volume Is

- \$ docker volume inspect myvol2
- \$ sudo ls [File Name]

#### **Run Ubuntu Container with Same volume**

```
a.txt b.txt

vagrant@ubuntu-xenial:~$ docker run -it -v myvol2:/mnt ubuntu

unable to find image 'ubuntu:latest' locally

latest: Pulling from library/ubuntu
83ee3a23efb7: Pull complete

db98fc6f11f0: Pull complete
611acd52c6c: Pull complete
611acd52c6c: Pull complete
Digest: sha256:703218c0465075f4425e58fac086e09e1de5c340b12976ab9eb8ad26615c3715

Status: Downloaded newer image for ubuntu:latest
root@82f7e79cbbea:/# ls
bin boot dev etc home lib lib32 lib64 libx32 media mnt opt proc root run sbin srv sys tmp usr var
root@82f7e79cbbea:/mnt# ls
a.txt b.txt
root@82f7e79cbbea:/mnt# touch c.txt
root@82f7e79cbbea:/mnt# touch d.txt
```

## Check the Volume which contain all the files make by both containers

```
vagrant@ubuntu-xenial:~$ sudo ls /var/lib/docker/volumes/myvol2/_data
a.txt b.txt c.txt d.txt
vagrant@ubuntu-xenial:~$
```