Experiment 11 Creating VM using Vagrant

1) Create a repo and initialise vagrant in it.

```
S E:\VM> mkdir cicd_lab
       Directory: E:\VM
                                 LastWriteTime Length Name
                        03-11-2020 11:04
                                                                                         cicd_lab
PS E:\VM> ls
     Directory: E:\VM
                                     LastWriteTime
                                                                             Length Name
                                                                                     cicd_lab
LinuxReboot
Red Hat Enterprise Linux 8 64-bit
RHEL
Ubuntu 64-bit
                       03-11-2020
22-10-2020
03-11-2020
03-11-2020
                        03-11-2020
03-11-2020
PS E:\VM\ cd .\cicd_lab\
PS E:\VM\cicd_lab\ vagrant init
A `Vagrantfile` has been placed in this directory. You are now ready to `vagrant up' your first virtual environment! Please read the comments in the Vagrantfile as well as documentation on `vagrantup.com` for more information on using Vagrant.
PS E:\VM\cicd_lab> ls
      Directory: E:\VM\cicd_lab
                                     LastWriteTime
                                                                            Length Name
                        03-11-2020 11:05
                                                                              3080 Vagrantfile
```

2) Configure Vagantfile.

```
E > Vagrantfile X

E > VM > clcd_lab > $\frac{1}{2}$ Vagrantfile

1  # -*- mode: ruby -*-
2  # Vvi set ft=ruby :

3  # All Vagrant configuration is done below. The "2" in Vagrant.configure

5  # configures the configuration version (we support older styles for

6  # backwards compatibility). Please don't change it unless you know what

7  # you're doing.

8  Vagrant.configure("2") do | config|

9  # The most common configuration options are documented and commented below.

9  # for a complete reference, please see the online documentation at

10  # bttps://docs.vagrantup.com.

10  # boxes = "ubuntu/xenial64"

11  # bttps://docs.vagrantup.com.

12  # Severy Vagrant development environment requires a box. You can search for

13  # boxes at https://vagrantcloud.com/search.

14  # config.vm.box = "ubuntu/xenial64"

15  # Severy Vagrant box outdated. This is not recommended.

16  # boxes will only be checked for updates when the user runs

17  # Vagrant box outdated. This is not recommended.

18  # Create a forwanded port mapping which allows access to a specific port

19  # accessing "localhost:8080" will access to the opened port

10  # config.vm.network "forwanded_port", guest: 80, host: 8080

10  # Create a forwanded port mapping which allows access to a specific port

10  # within the machine from a port on the host machine and only allow access

10  # within the machine from a port on the host machine and only allow access

11  # within the machine from a port on the host machine and only allow access

12  # within the machine from a port on the host machine and only allow access

13  # within the machine from a port on the host machine and only allow access

14  # Create a forwanded port manufaccess

15  # within the machine from a port on the host machine and only allow access

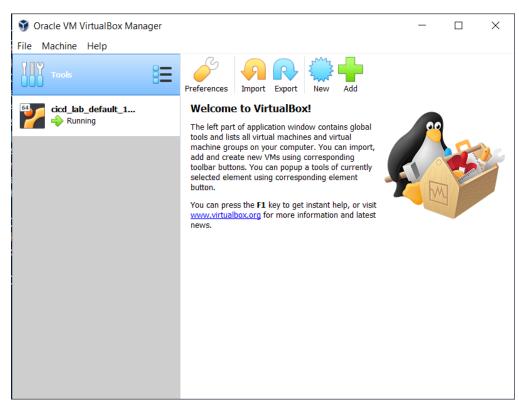
16  # Create a forwanded port manufaccess

17  # within the machine from a port on the host machine and only allow access

18  # within the machine from a port on the host machine and only allow access

18  # within the machine from a
```

3) Make the machine up using **vagrant up** command.



4) Connect via vagrant ssh command and perform the tasks on the machine.

```
MacCome to Union. 16.87. ITS (OMU/Linux 4.4.8-19)-generic x86_64)

* Documentation: https://abuntu.com/ abuntu.com/ britishi.//abuntu.com/ britishi.//abuntu.com/ britishi.//abuntu.com/ abuntu.com/ a
```