APPLICATION CONTAINERISATION

LAB REPORT

LAB EXPERIMENT 01
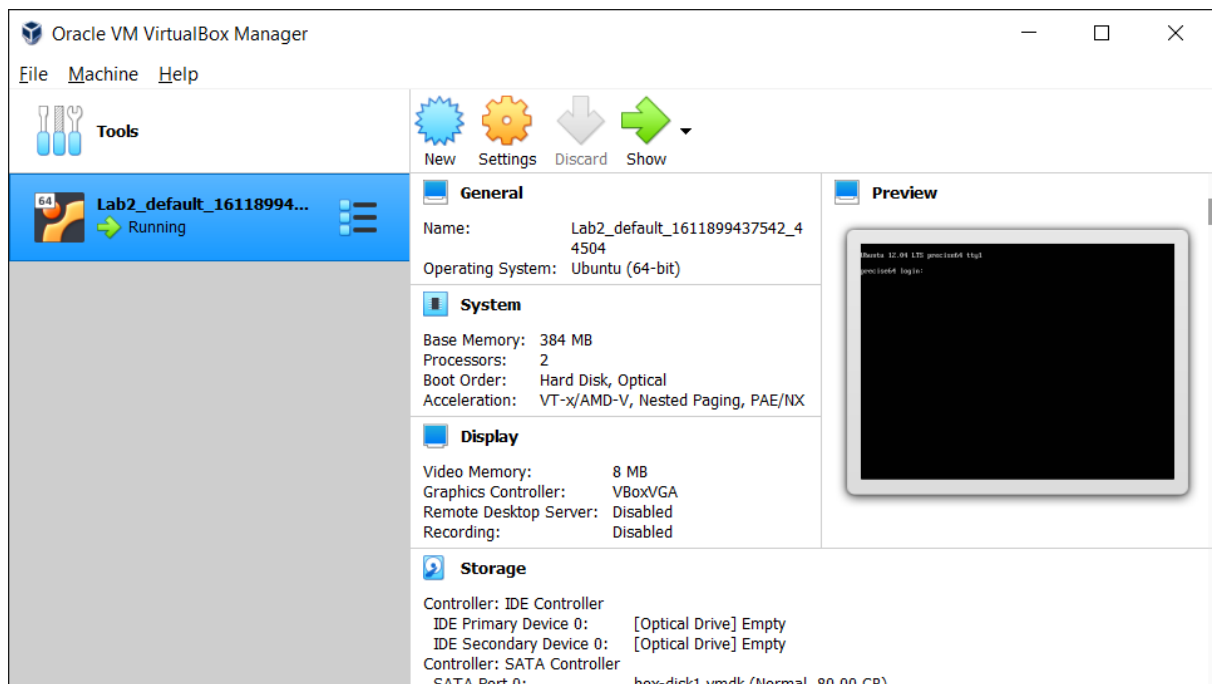
AIM: Install VirtualBox and Vagrant

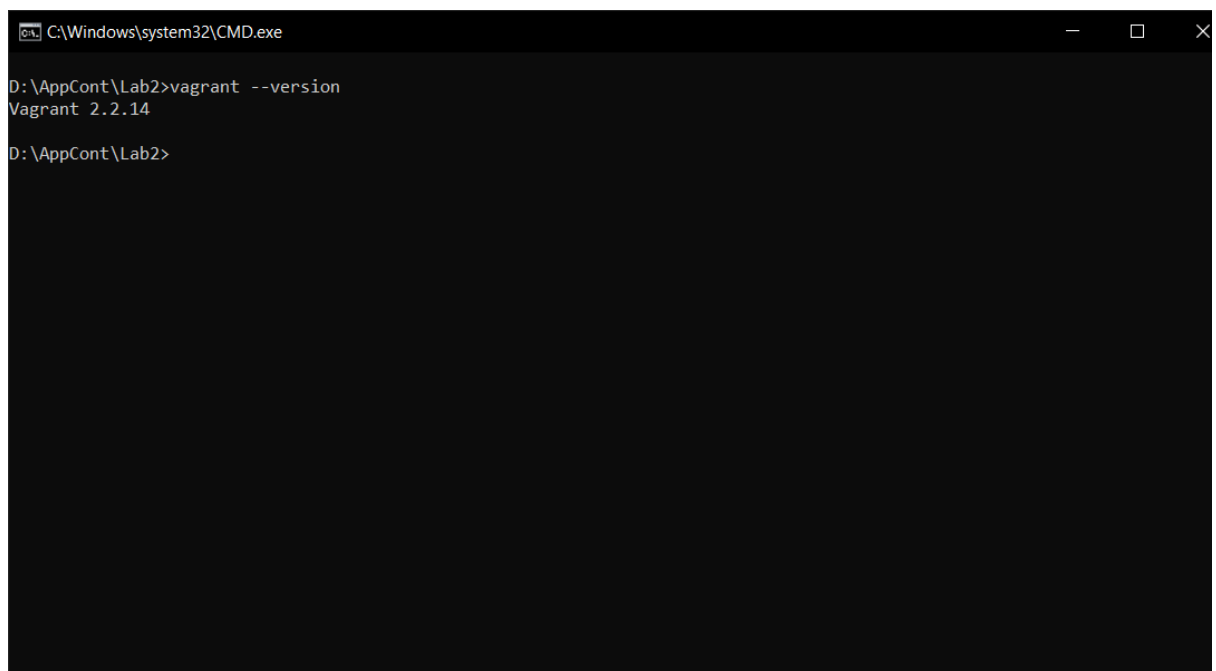**STEPS PERFORMED:**

1. Download VirtualBox and Vagrant executables.
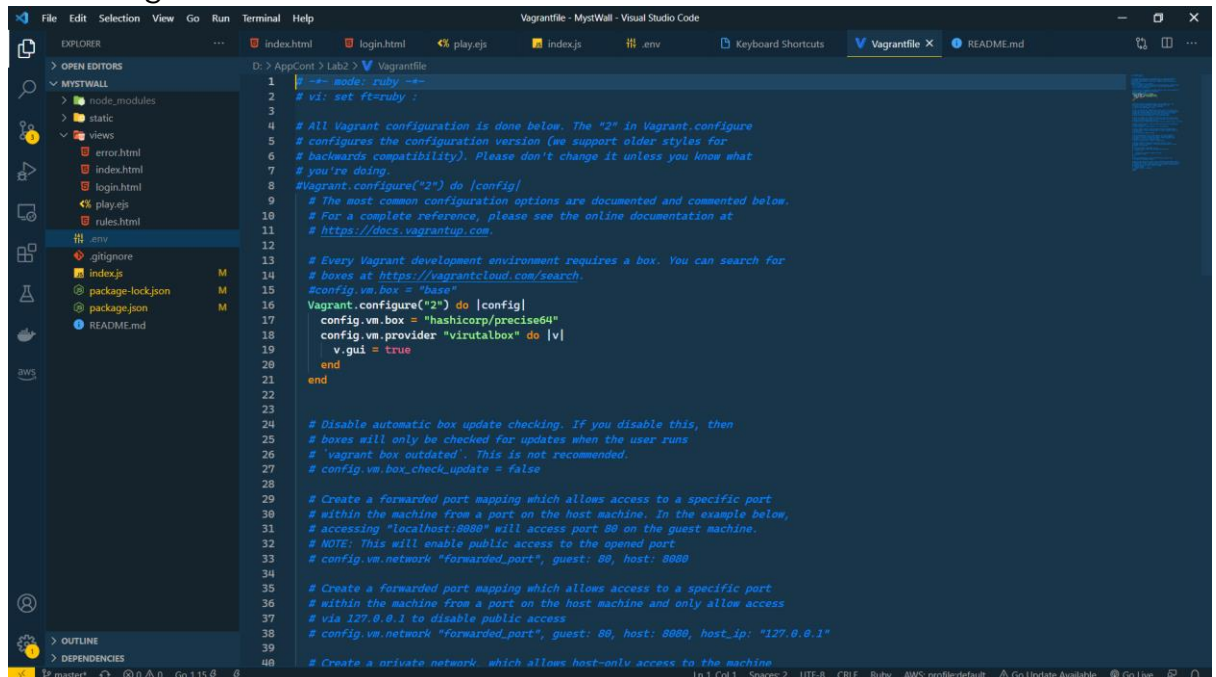
2. Install VirtualBox and Vagrant.

3. Verify Vagrant installation by using – "vagrant –version".
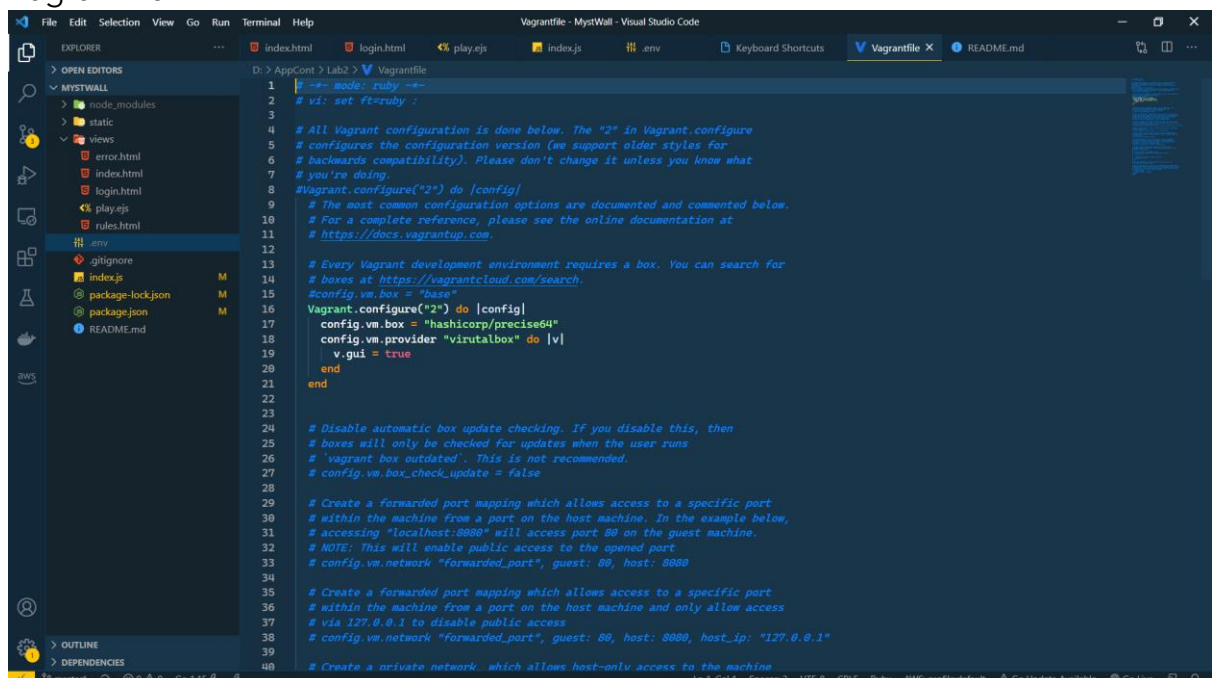
4. Initialize a Vagrant project by creating a Project Directory and running –
   "vagrant init". This will create a Vagrantfile inside the directory that will look
   something like this.

5. Change variable config.vm.box = "hashicorp/precise64 ", inside the
   Vagrantfile.

6. Use "vagrant up" to run the Vagrant instance. You will notice a new Virtual Machine inside VirtualBox.

```
vagrant@precise64: ~                                                          —    □    ×

D:\AppCont\Lab2>vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Checking if box 'hashicorp/precise64' version '1.1.0' is up to date...
==> default: Clearing any previously set forwarded ports...
==> default: Clearing any previously set network interfaces...
==> default: Preparing network interfaces based on configuration...
    default: Adapter 1: nat
==> default: Forwarding ports...
    default: 22 (guest) => 2222 (host) (adapter 1)
==> default: Booting VM...
==> default: Waiting for machine to boot. This may take a few minutes...
    default: SSH address: 127.0.0.1:2222
    default: SSH username: vagrant
    default: SSH auth method: private key
==> default: Machine booted and ready!
==> default: Checking for guest additions in VM...
    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
    default: prevent things such as shared folders from working properly. If you see
    default: shared folder errors, please make sure the guest additions within the
    default: virtual machine match the version of VirtualBox you have installed on
    default: your host and reload your VM.
    default:
    default: Guest Additions Version: 4.2.0
    default: VirtualBox Version: 6.1
==> default: Mounting shared folders...
    default: /vagrant => D:/AppCont/Lab2
```

7. You can perform several operations on the Vagrant.

```
C:\Windows\system32\CMD.exe                                                   —    □    ×

vagrant@precise64:~$ mkdir newdir
vagrant@precise64:~$ ls
newdir  postinstall.sh
vagrant@precise64:~$ exit
logout
Connection to 127.0.0.1 closed.

D:\AppCont\Lab2>
```