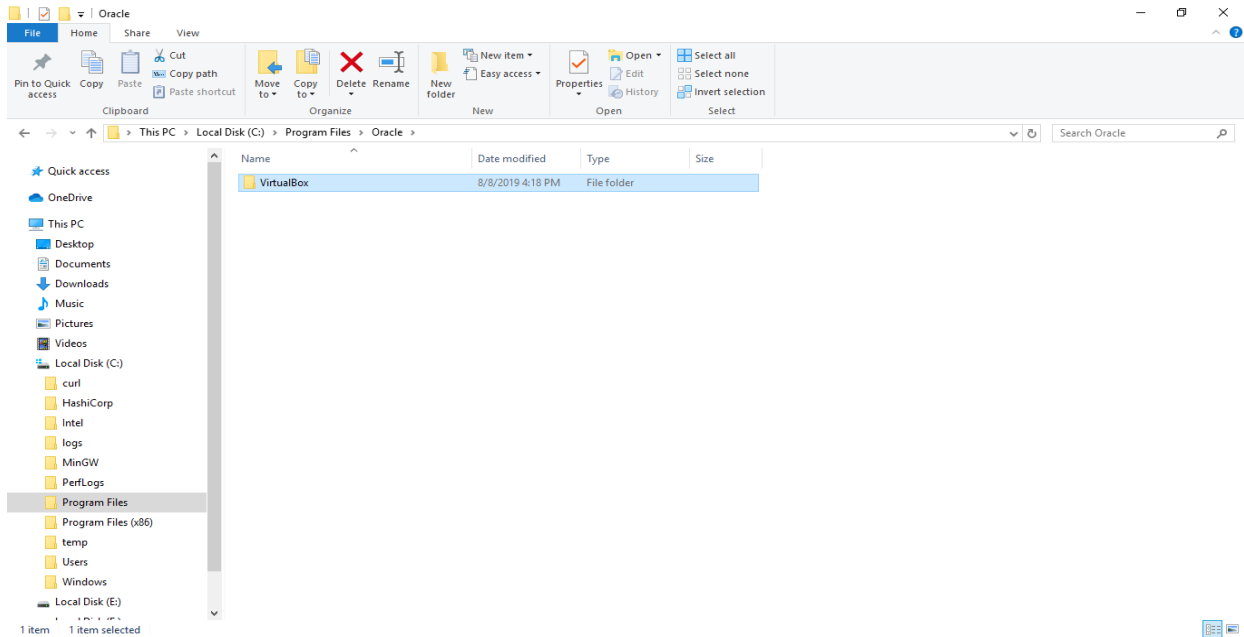
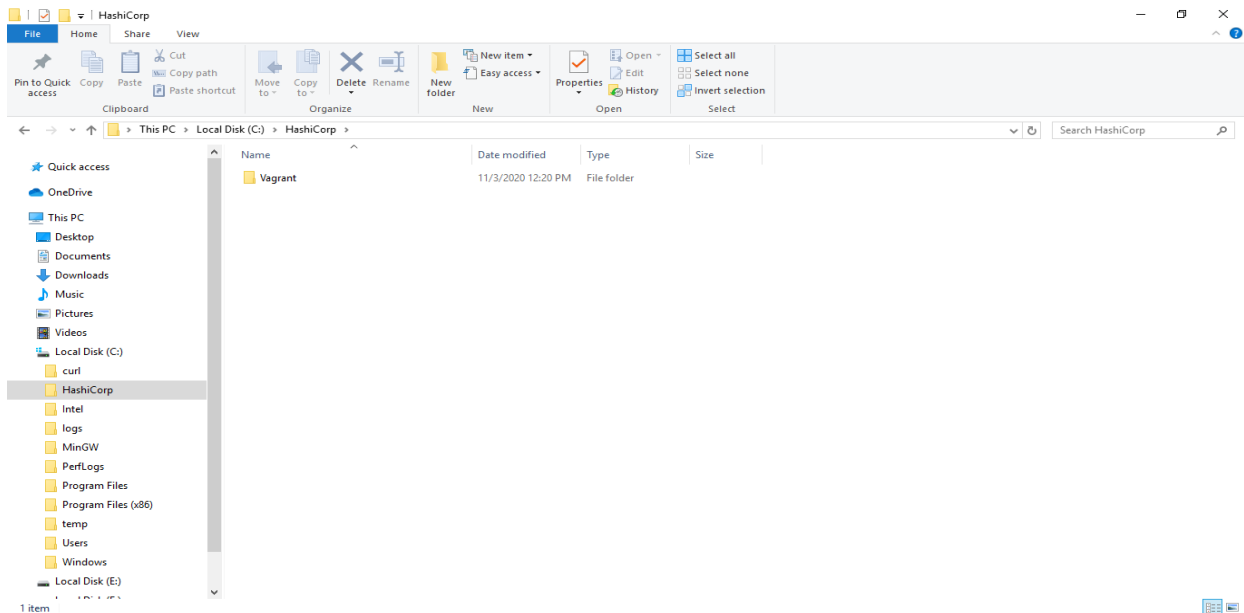


# EXPERIMENT- 11 (Vagrant Installation)

## Step-1 Download and install oracle virtual box

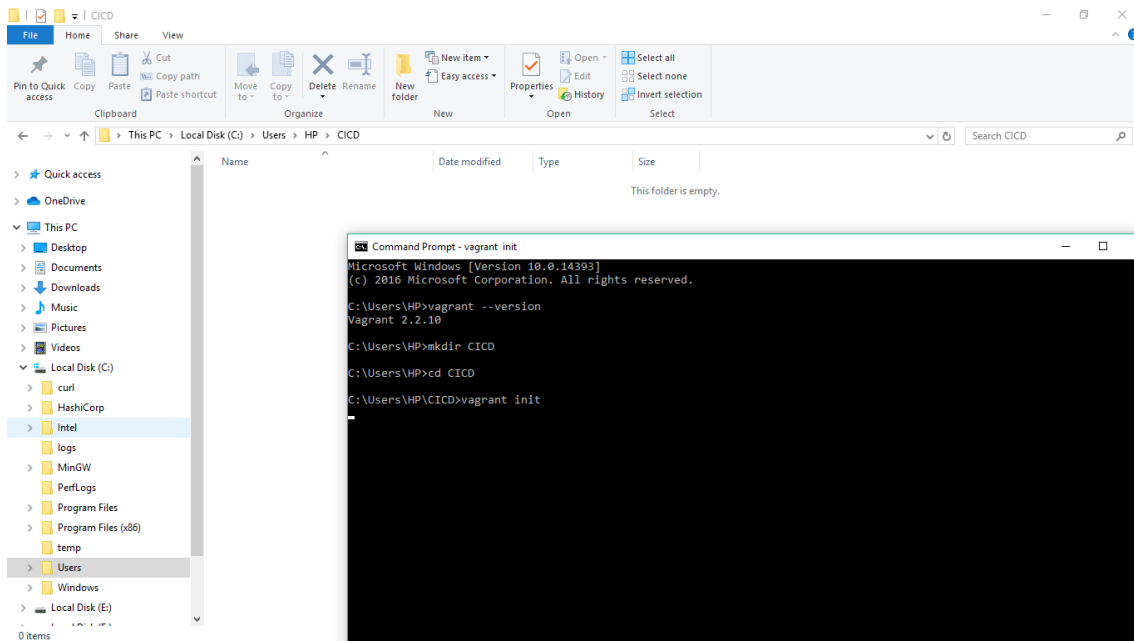


## Step-2 Download and install vagrant

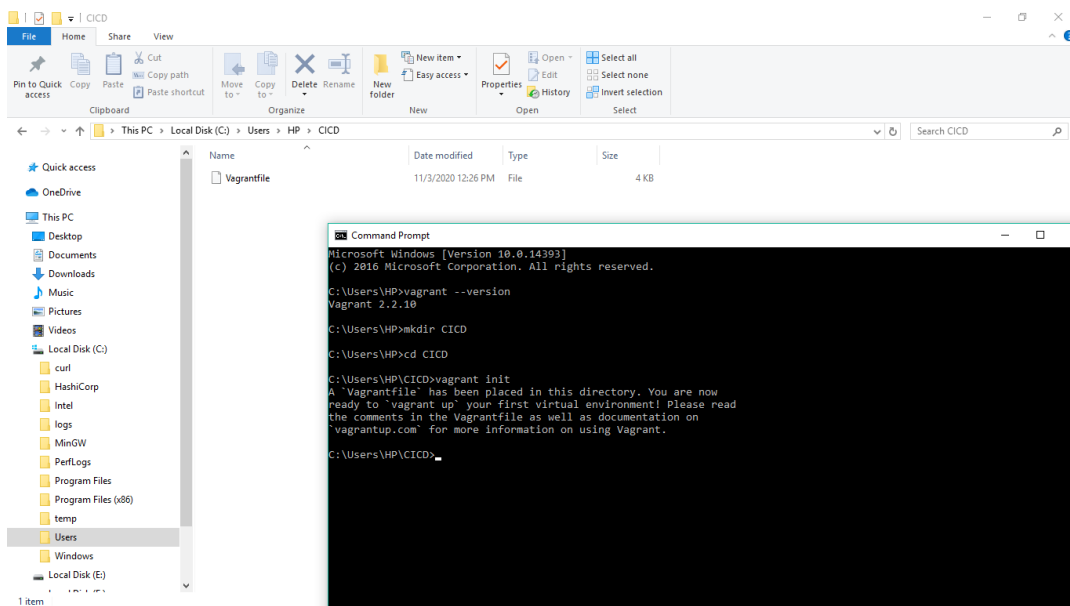


**Step-3** Create a folder using CMD, Go to newly created folder and run vagrant init command.

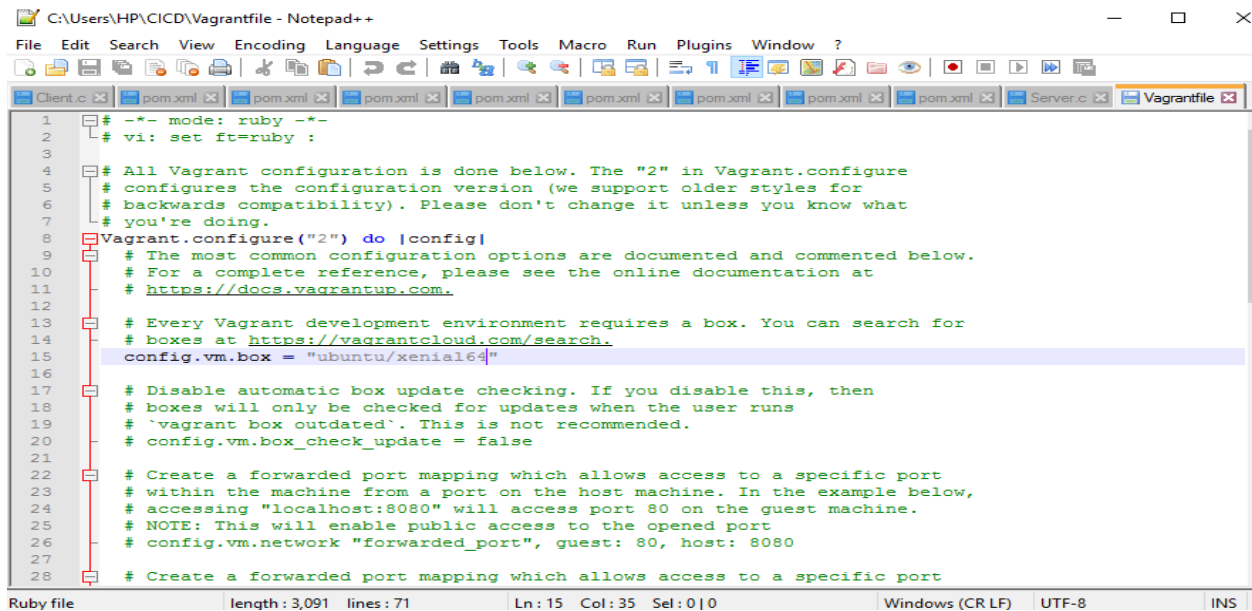
You can see before init command vagrant file is not there in that particular location.



Now, after successful running of vagrant init command, we can find vagrant file in our location.

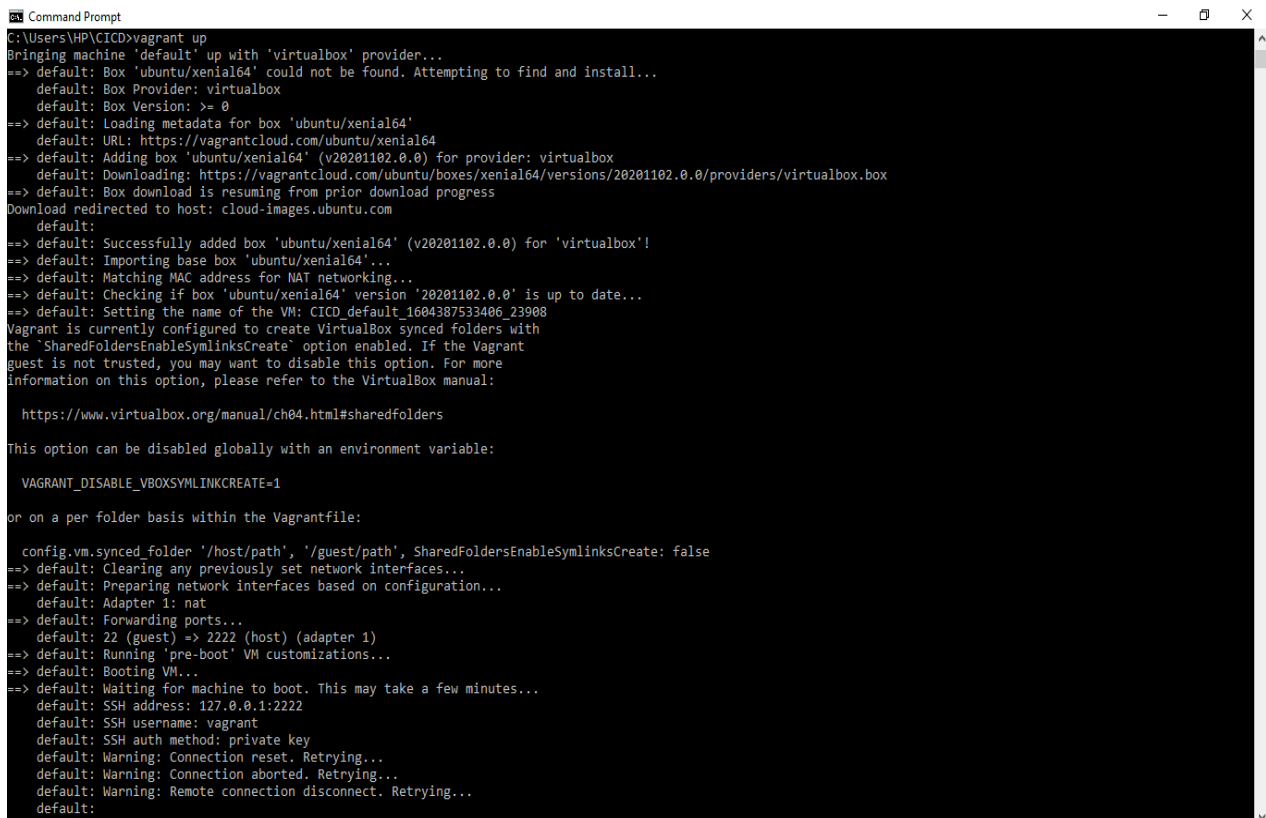


#### Step-4 Make this changes to vagrant file.



```
1 # -*- mode: ruby -*-
2 # vi: set ft=ruby :
3
4 # 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.
10   # For a complete reference, please see the online documentation at
11   # https://docs.vagrantup.com.
12
13   # Every Vagrant development environment requires a box. You can search for
14   # boxes at https://vagrantcloud.com/search.
15   config.vm.box = "ubuntu/xenial64"
16
17   # Disable automatic box update checking. If you disable this, then
18   # boxes will only be checked for updates when the user runs
19   # 'vagrant box outdated'. This is not recommended.
20   # config.vm.box_check_update = false
21
22   # Create a forwarded port mapping which allows access to a specific port
23   # within the machine from a port on the host machine. In the example below,
24   # accessing "localhost:8080" will access port 80 on the guest machine.
25   # NOTE: This will enable public access to the opened port
26   # config.vm.network "forwarded_port", guest: 80, host: 8080
27
28   # Create a forwarded port mapping which allows access to a specific port
```

#### Step-5 Run vagrant up command



```
C:\Users\HPA\CICD>vagrant up
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Box 'ubuntu/xenial64' could not be found. Attempting to find and install...
    default: Box Provider: virtualbox
    default: Box Version: >= 0
==> default: Loading metadata for box 'ubuntu/xenial64'
    default: URL: https://vagrantcloud.com/ubuntu/xenial64
==> default: Adding box 'ubuntu/xenial64' (v20201102.0.0) for provider: virtualbox
    default: Downloading: https://vagrantcloud.com/ubuntu/boxes/xenial64/versions/20201102.0.0/providers/virtualbox.box
==> default: Box download is resuming from prior download progress
Download redirected to host: cloud-images.ubuntu.com
    default:
==> default: Successfully added box 'ubuntu/xenial64' (v20201102.0.0) for 'virtualbox'!
==> default: Importing base box 'ubuntu/xenial64'...
==> default: Matching MAC address for NAT networking...
==> default: Checking if box 'ubuntu/xenial64' version '20201102.0.0' is up to date...
==> default: Setting the name of the VM: CICD_default_1604387533406_23908
Vagrant is currently configured to create VirtualBox synced folders with
the 'SharedFoldersEnableSymlinksCreate' option enabled. If the Vagrant
guest is not trusted, you may want to disable this option. For more
information on this option, please refer to the VirtualBox manual:

    https://www.virtualbox.org/manual/ch04.html#sharedfolders

This option can be disabled globally with an environment variable:

    VAGRANT_DISABLE_VBOXSYMLINKCREATE=1

or on a per folder basis within the Vagrantfile:

    config.vm.synced_folder '/host/path', '/guest/path', SharedFoldersEnableSymlinksCreate: false
==> 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: Running 'pre-boot' VM customizations...
==> default: Booting VM...
==> default: Waiting for machine to boot. This may take a few minutes...
    default: SSH address: 127.0.0.1:2222
    default: SSH username: vagrant
    default: SSH auth method: private key
    default: Warning: Connection reset. Retrying...
    default: Warning: Connection aborted. Retrying...
    default: Warning: Remote connection disconnect. Retrying...
    default:
```

```

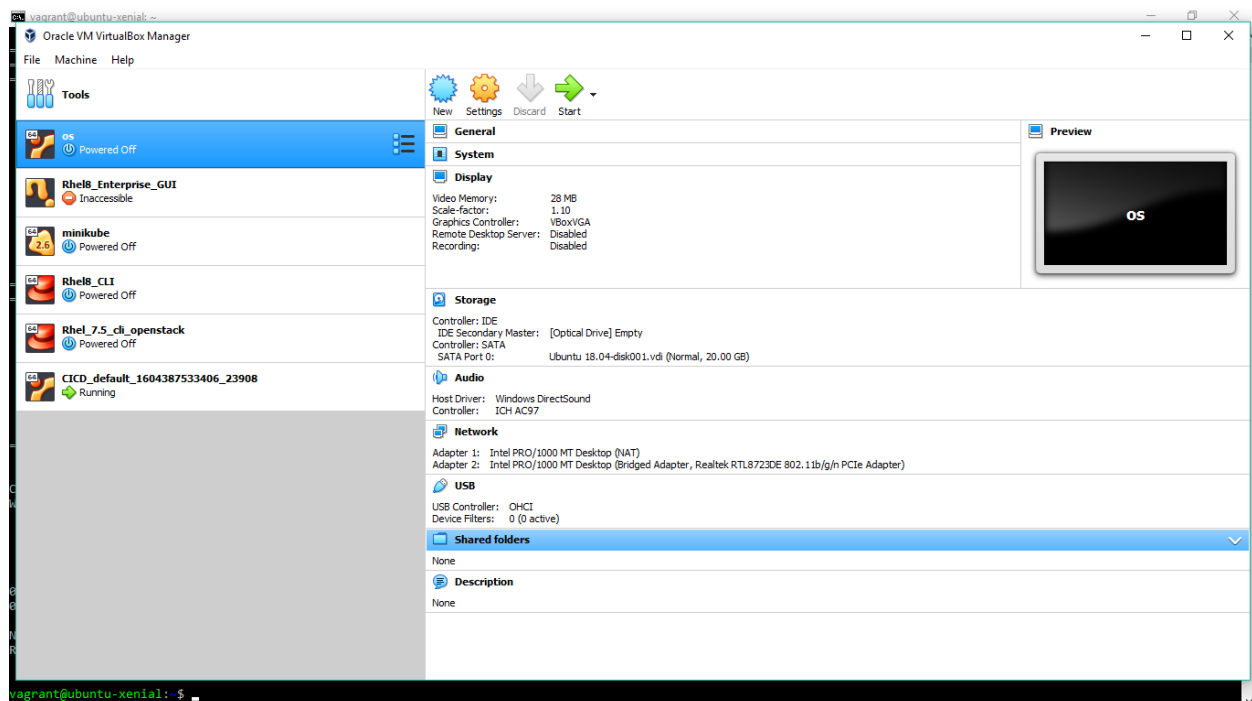
Select Command Prompt

config.vm.synced_folder "/host/path", "/guest/path", SharedFoldersEnableSymlinksCreate: false
==> 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: Running 'pre-boot' VM customizations...
==> default: Booting VM...
==> default: Waiting for machine to boot. This may take a few minutes...
      default: SSH address: 127.0.0.1:2222
      default: SSH username: vagrant
      default: SSH auth method: private key
      default: Warning: Connection reset. Retrying...
      default: Warning: Connection aborted. Retrying...
      default: Warning: Remote connection disconnect. Retrying...
      default:
      default: Vagrant insecure key detected. Vagrant will automatically replace
      default: this with a newly generated keypair for better security.
      default:
      default: Inserting generated public key within guest...
      default: Removing insecure key from the guest if it's present...
      default: Key inserted! Disconnecting and reconnecting using new SSH 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: 5.1.38
      default: VirtualBox Version: 6.0
==> default: Mounting shared folders...
      default: /vagrant => C:/Users/HP/CICD


C:\Users\HP\CICD>

```

You can see newly created virtual machine of Ubuntu has been set up inside virtual box.



**Step 6-** Run vagrant ssh command to get the terminal of our newly created virtual machine.

 vagrant@ubuntu-xenial: ~

```
C:\Users\HP\CICD>vagrant ssh
Welcome to Ubuntu 16.04.7 LTS (GNU/Linux 4.4.0-193-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

0 packages can be updated.
0 updates are security updates.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

vagrant@ubuntu-xenial:~$
```