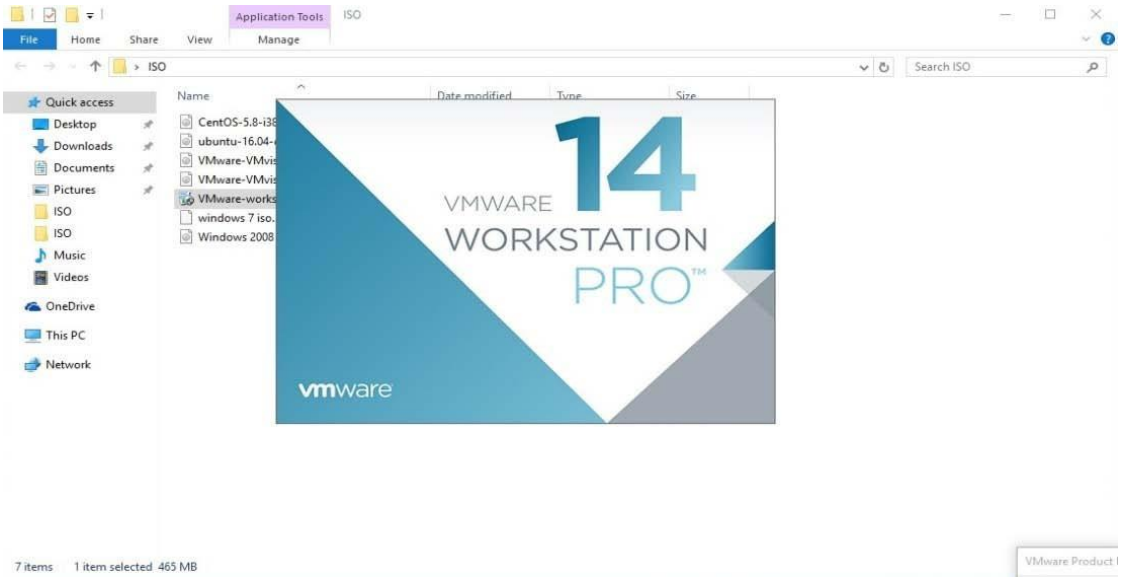
Experiment- 1: Create type 2 virtualization in VMWARE. Allocate memory and storage space as per requirement. Install GuestOS on that VMWARE.

1. Installation of VMware on windows 10

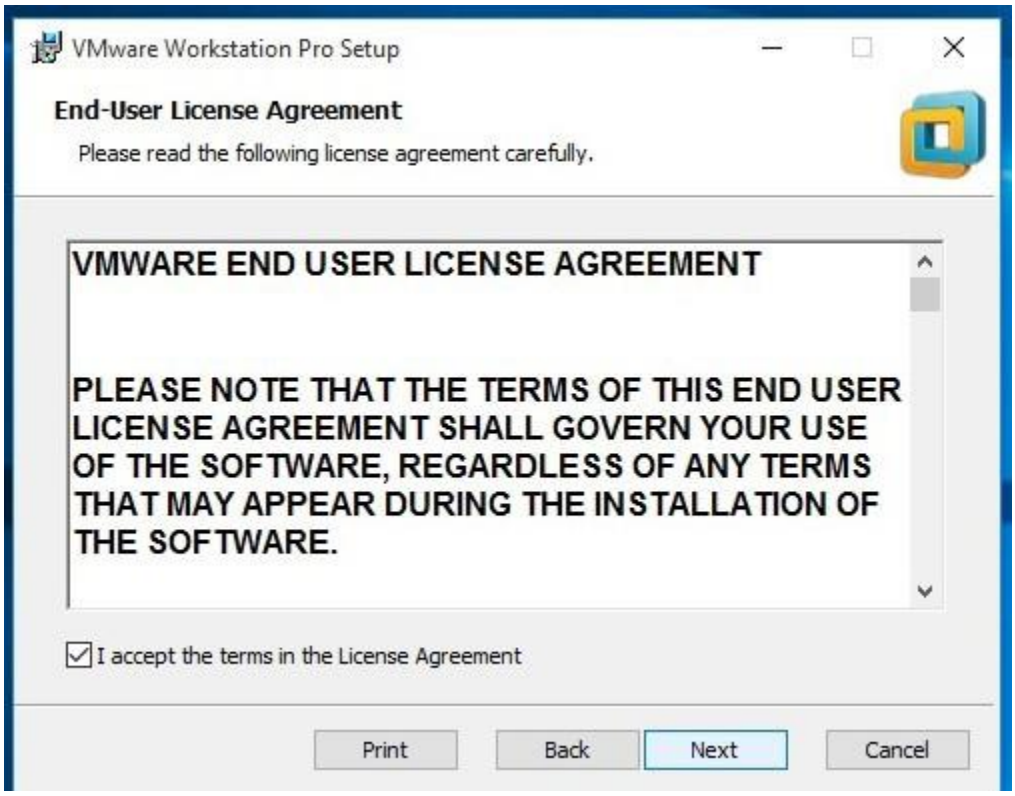
You use the New Virtual Machine wizard to create a new virtual machine in Workstation. The wizard prompts you to make decisions about many aspects of the virtual machine. You shoulmake these decisions before you start the New Virtual Machine wizard. The steps are as follows.

Step 1: Open the VMware wizard.

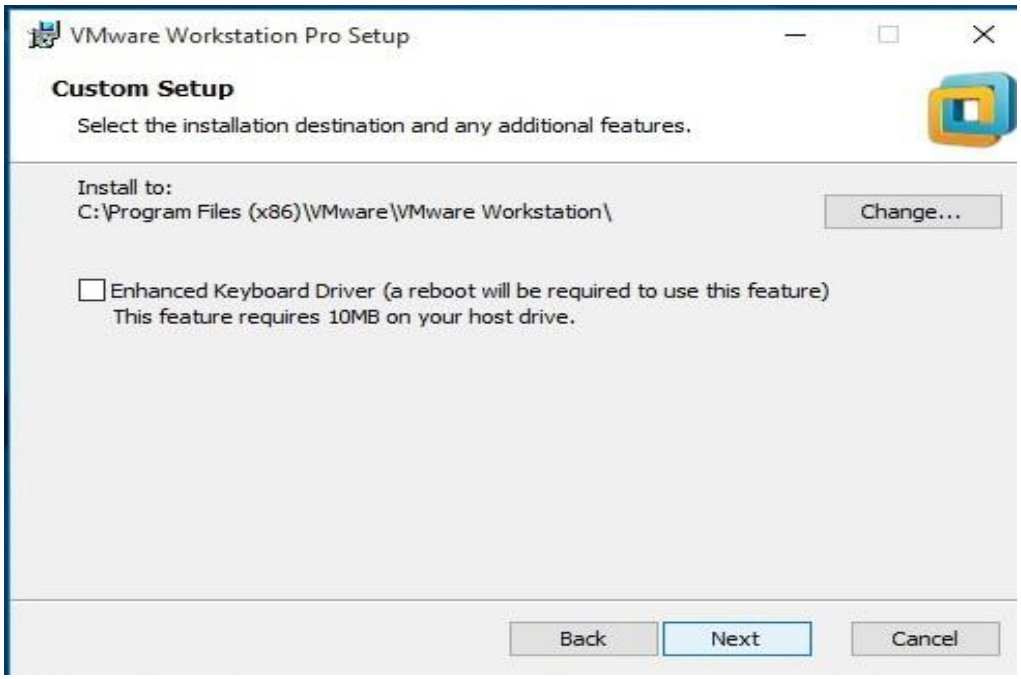


Step 2: Click next in the VMware setup wizard.

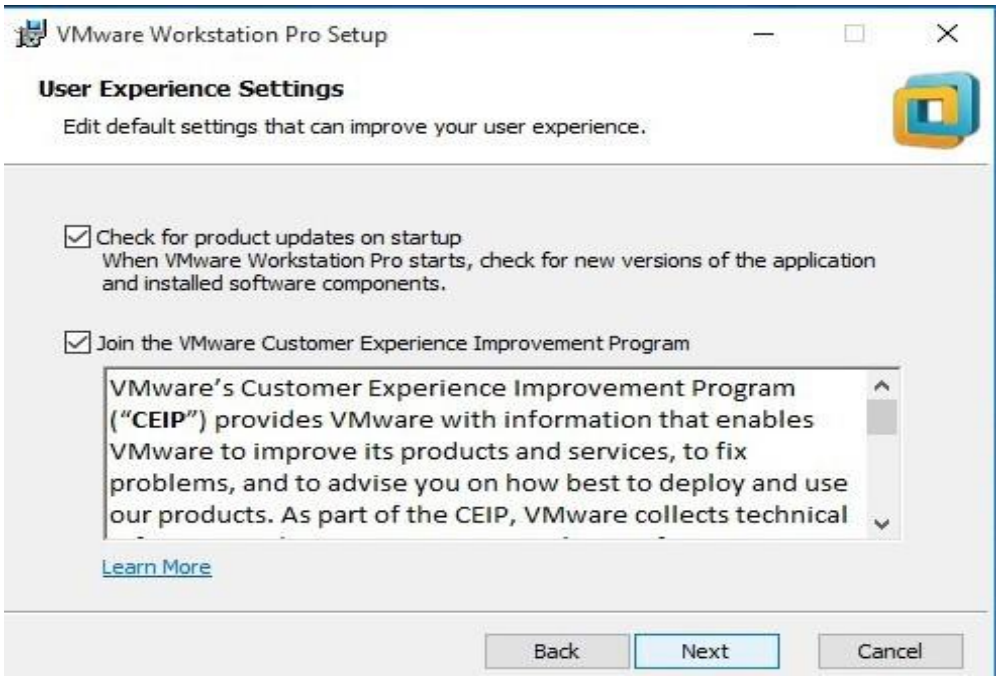
Step 3: Click the checkbox to accept the VM end-user license agreement and press the next button.



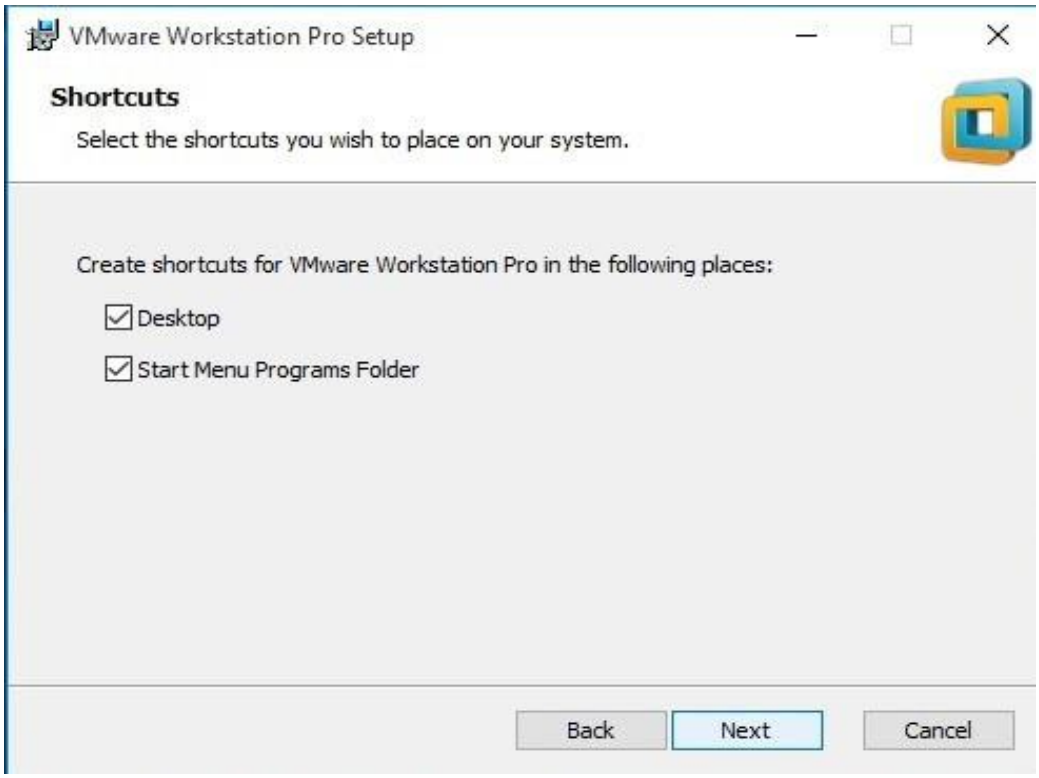
Step 4: The custom setting window will open to select the installation destination and any additional features. C drive will be selected by default. Click Next to proceed further.



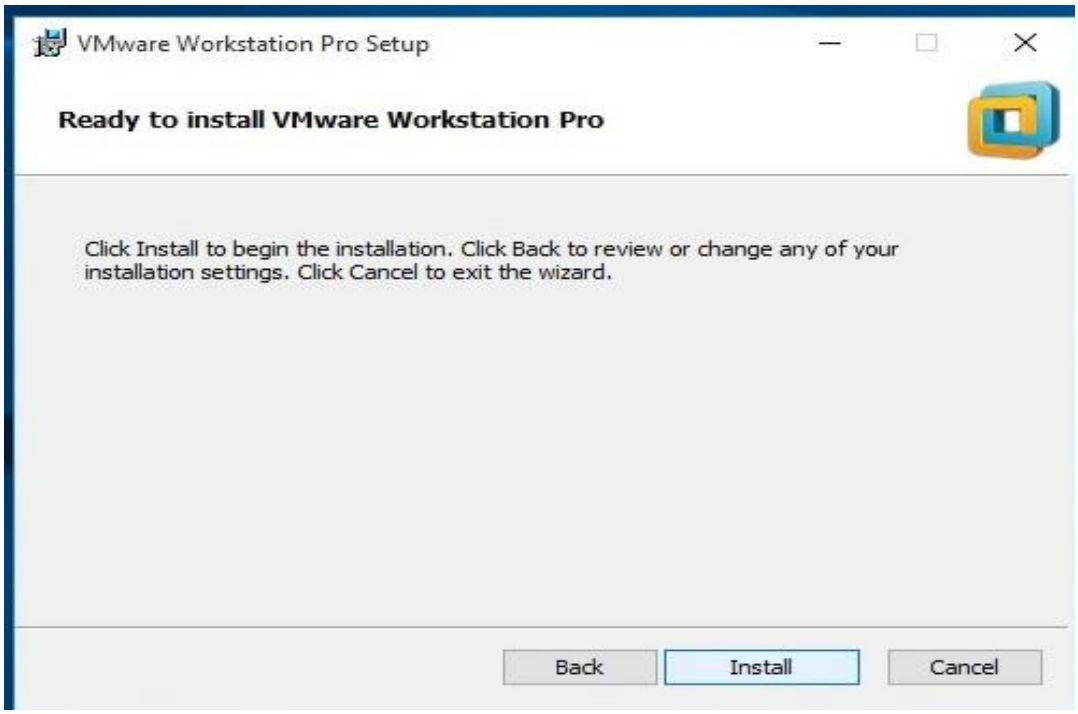
Step 5: Click next in the user experience setting.



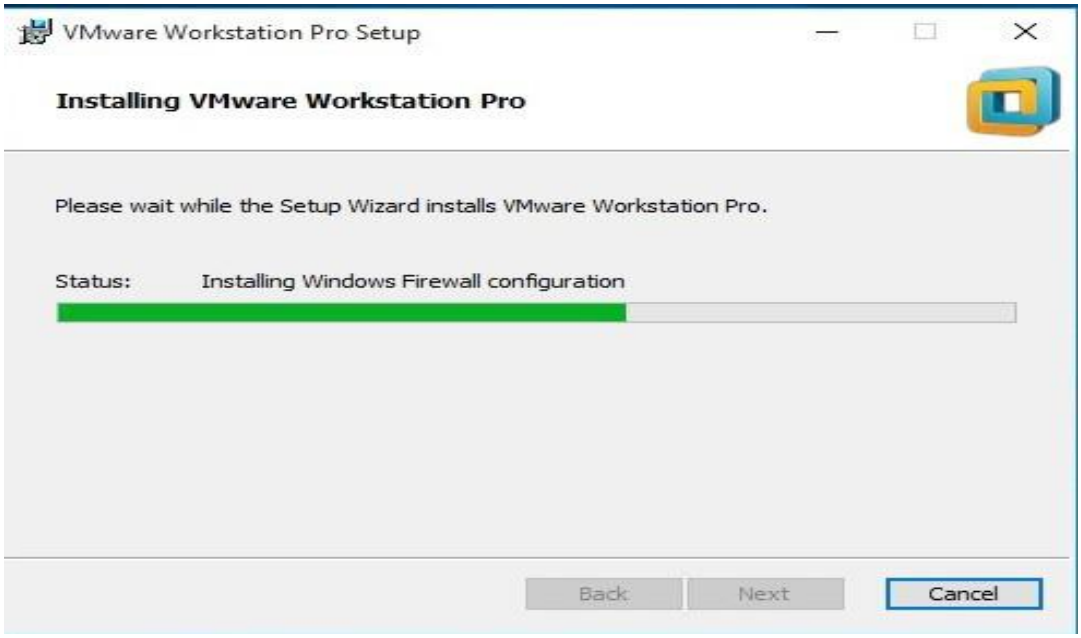
Step 6: The shortcuts window will open which will enable you to place the VM shortcut anywhere you wish to place on the system.



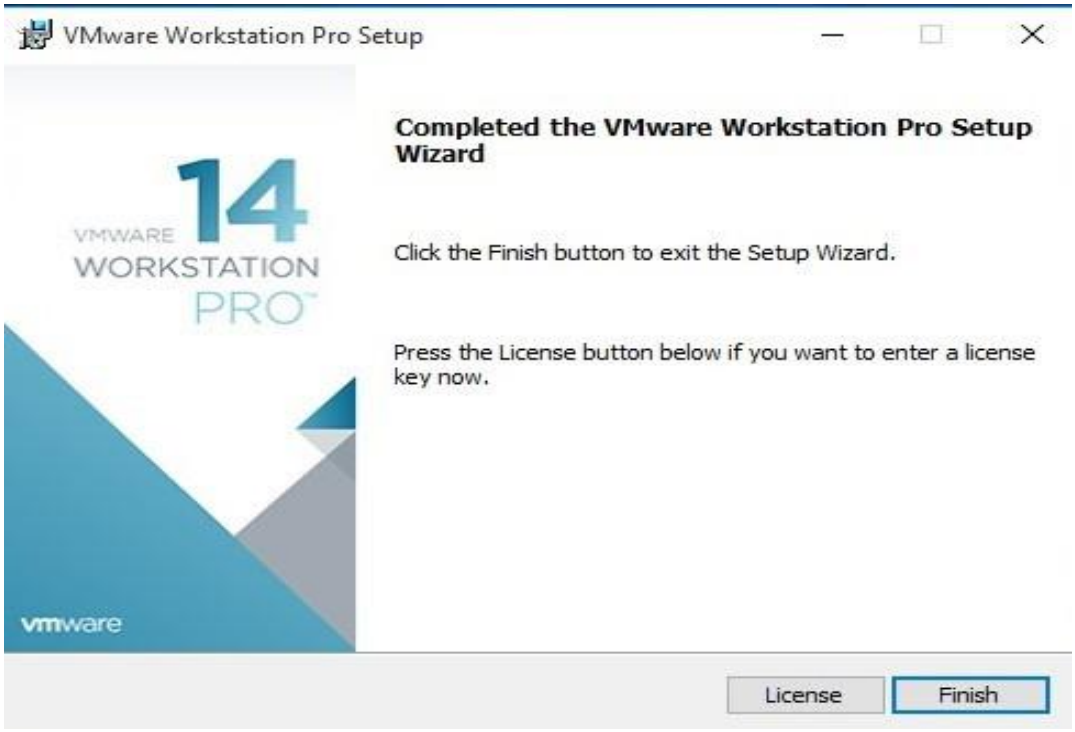
Step 7: Click the install button to install the VMware software on your system or workstation.



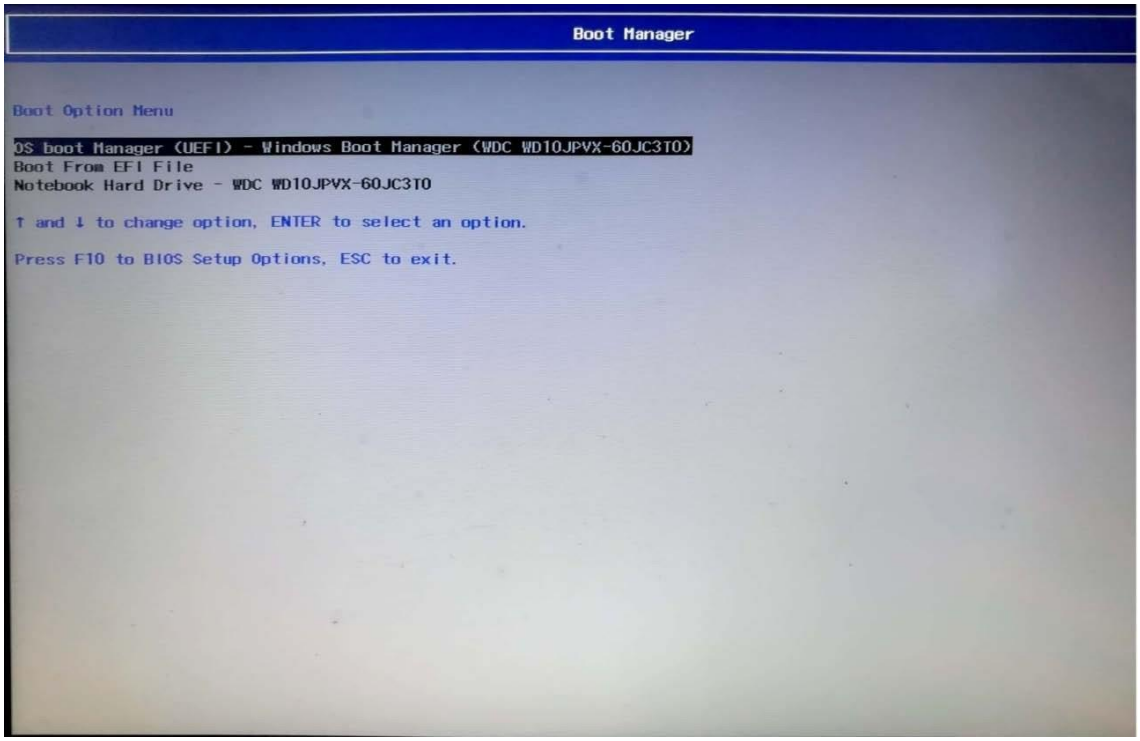
(The installation will take few seconds to proceed.)



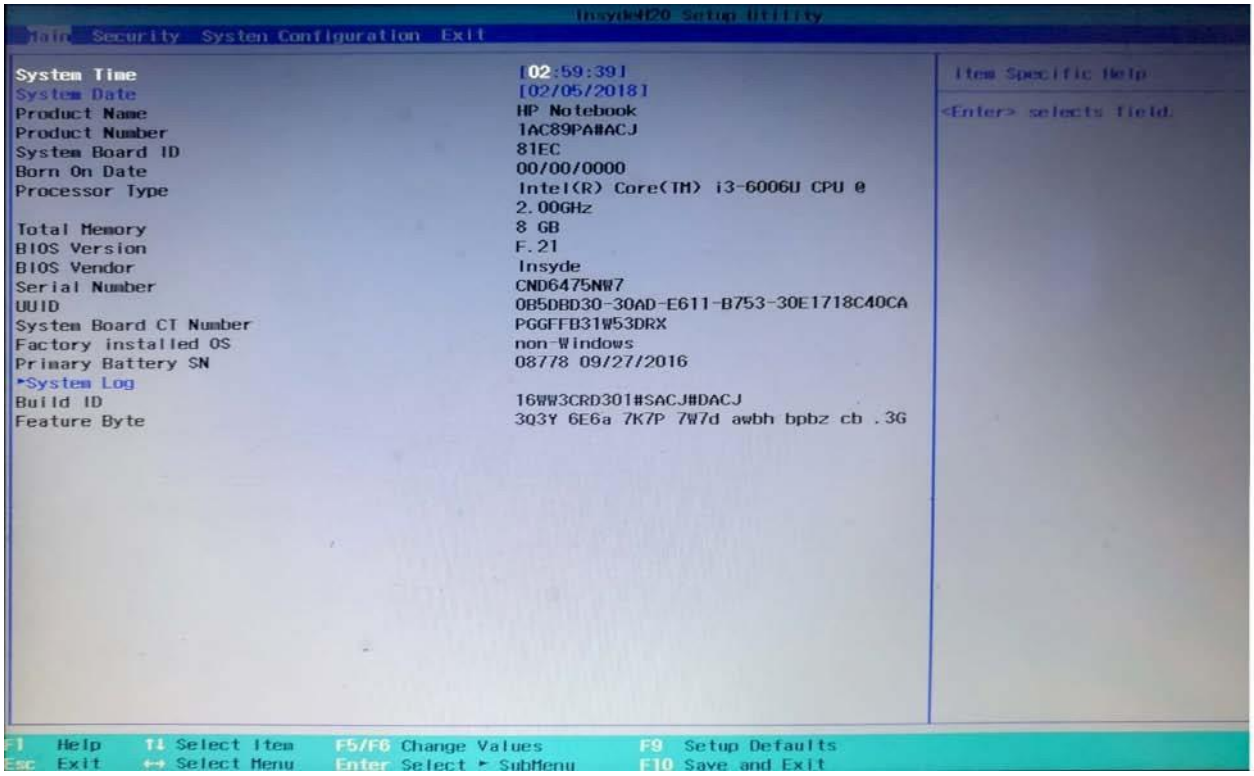
Step 8: Click finish to complete the VMware workstation pro setup wizard.



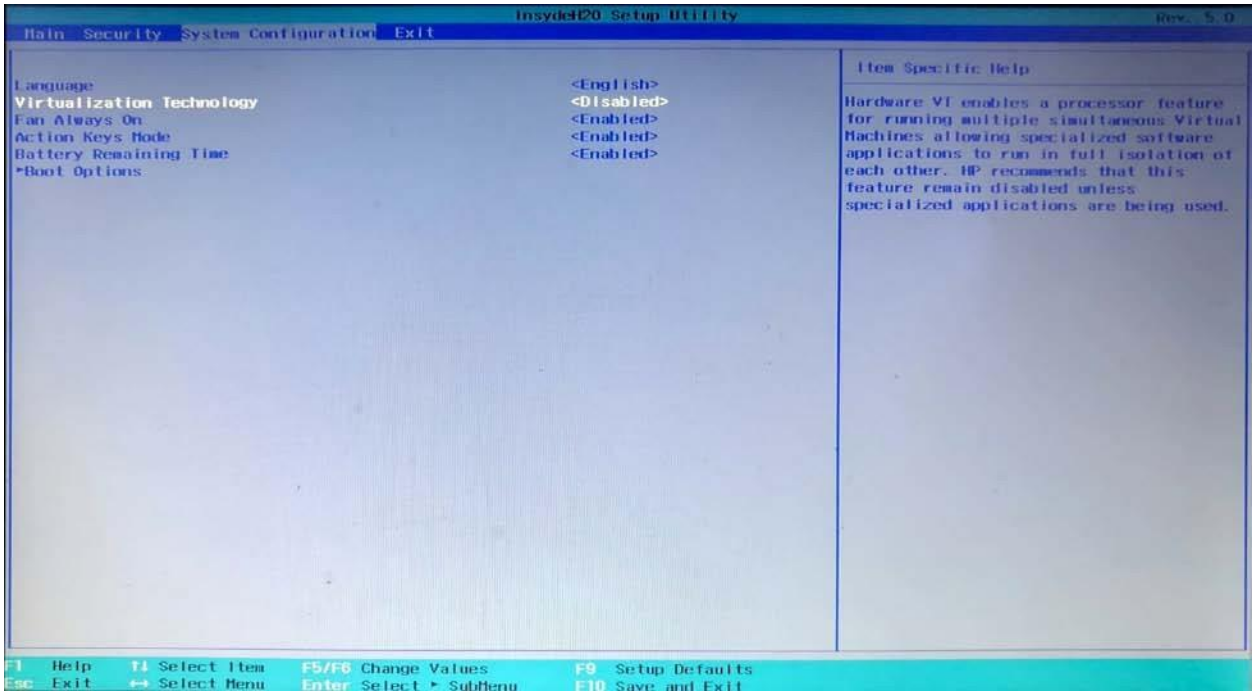
Step 9: After finishing the installation restart the system and while restarting the system continuously press f9 to open the system boot manager.



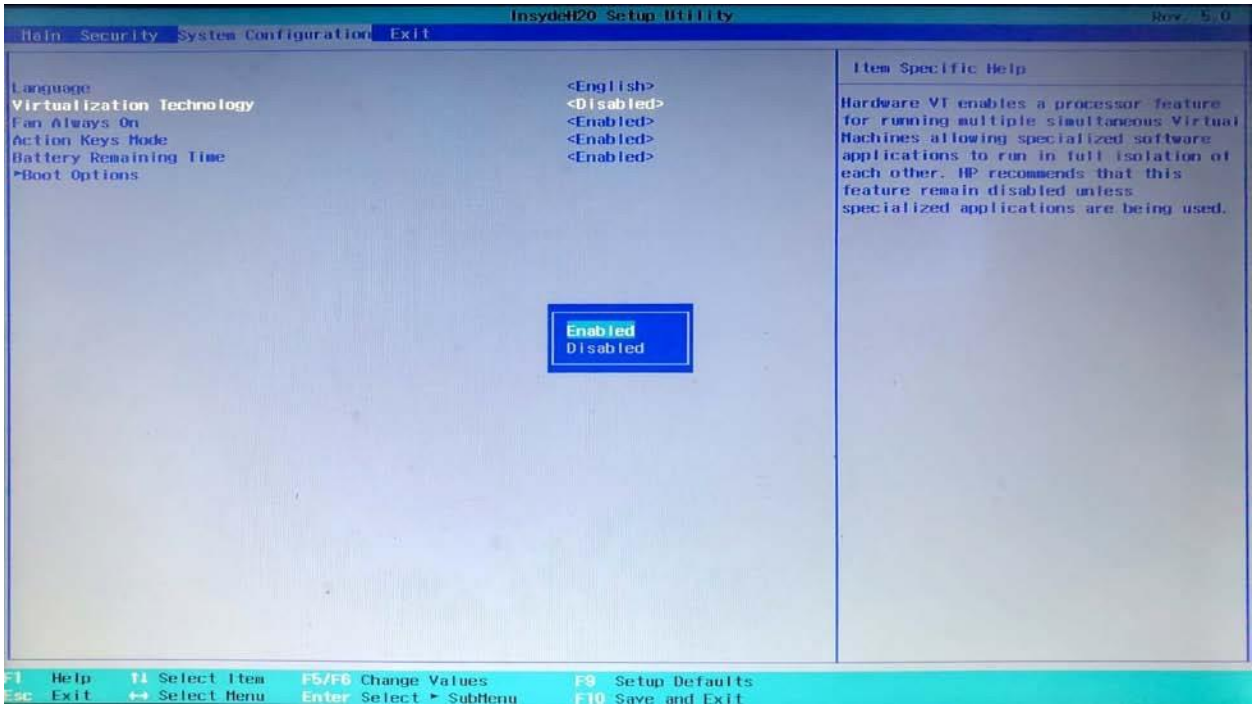
Step 10: Press F10 to open BIOS setup options.



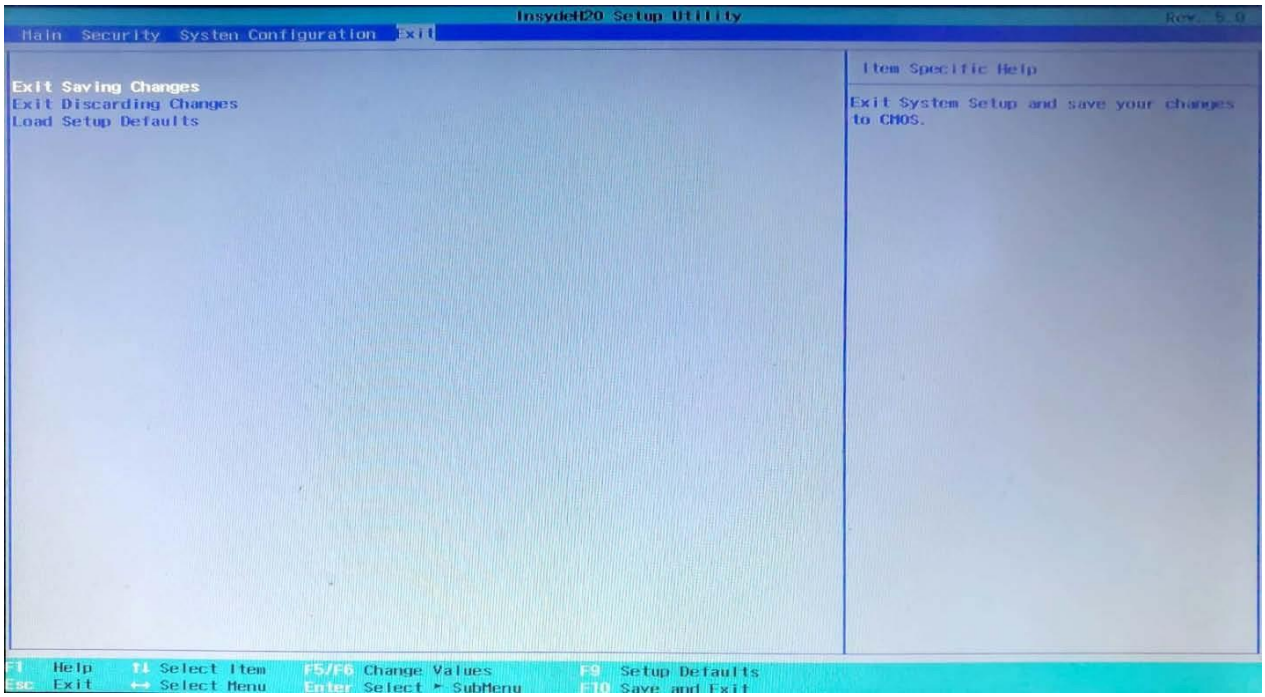
Step 11: Select the System configuration. And go to the Virtualization Technology.



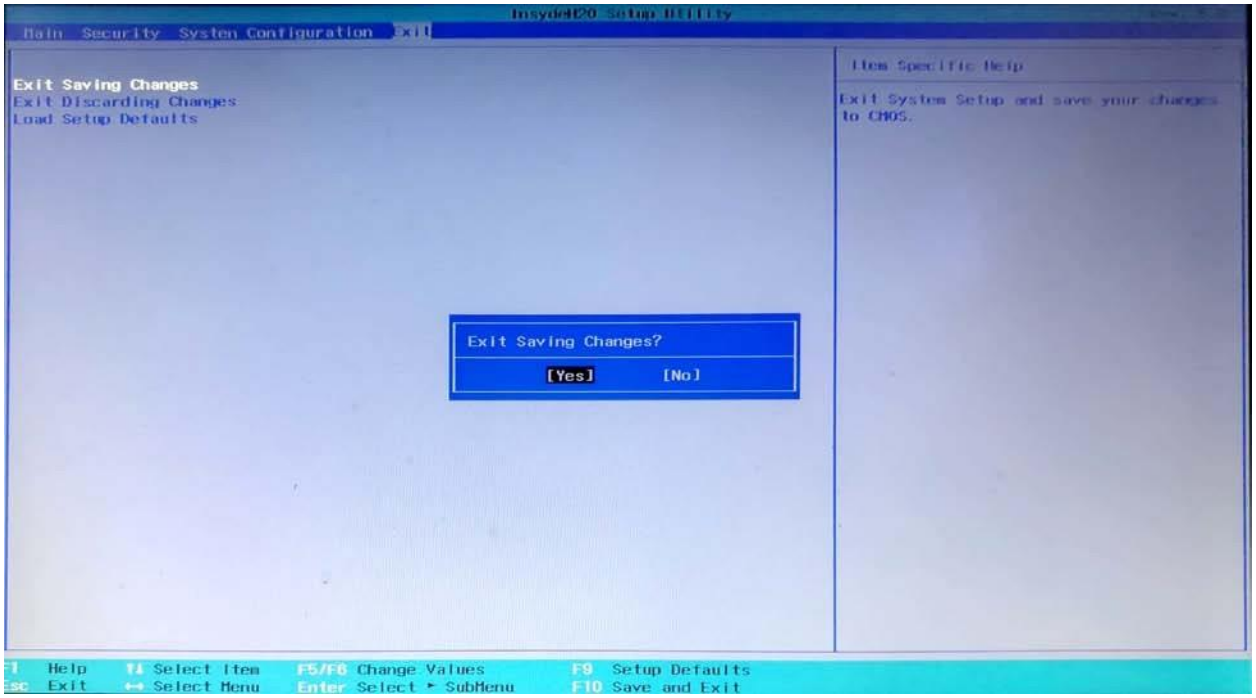
Step 12: Select the enable option to enable the virtualization technology.



Step 13: Go to exit option and then select the option “exit saving changes”.



Step 14: Select yes and then the windows will resume.

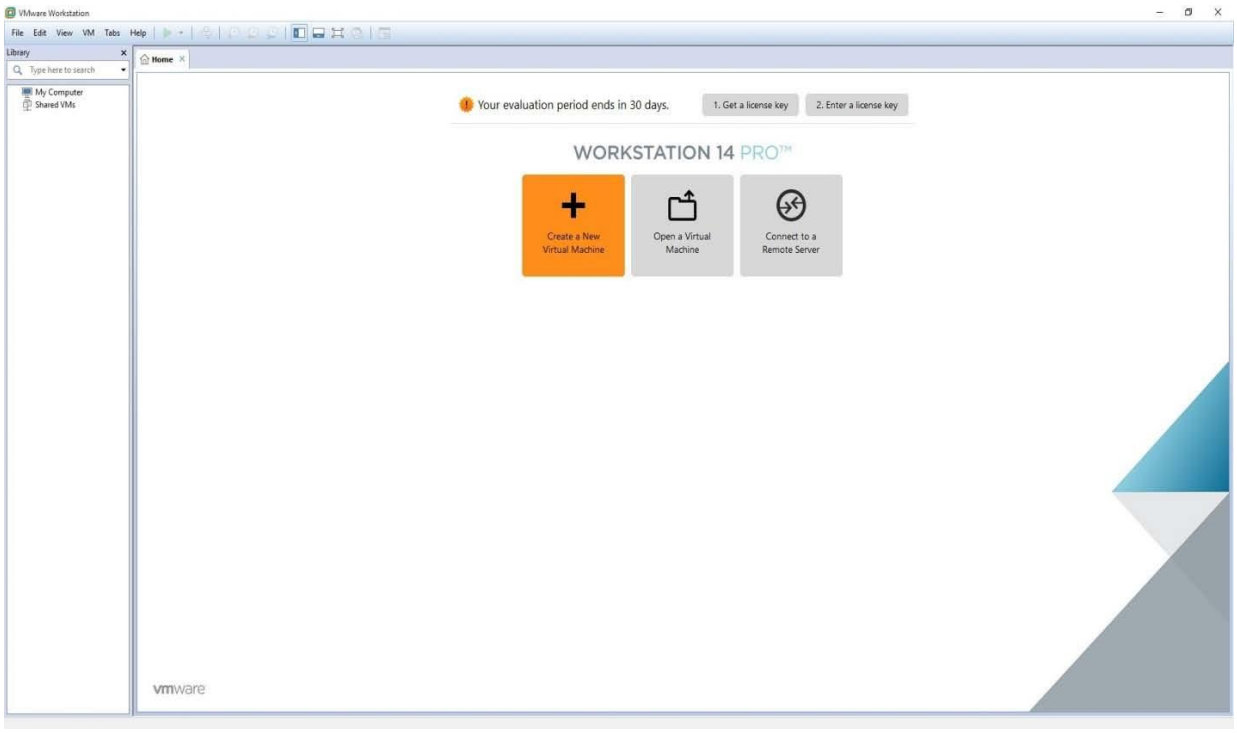


2. Installation of OS on VMware

Step 1: Click on the VMware shortcut. A window will be opened to select the trial version or to use the licensed version. Select the trial version and click on the continue tab.

Step 2: Click the finish tab to launch the VMware workstation.

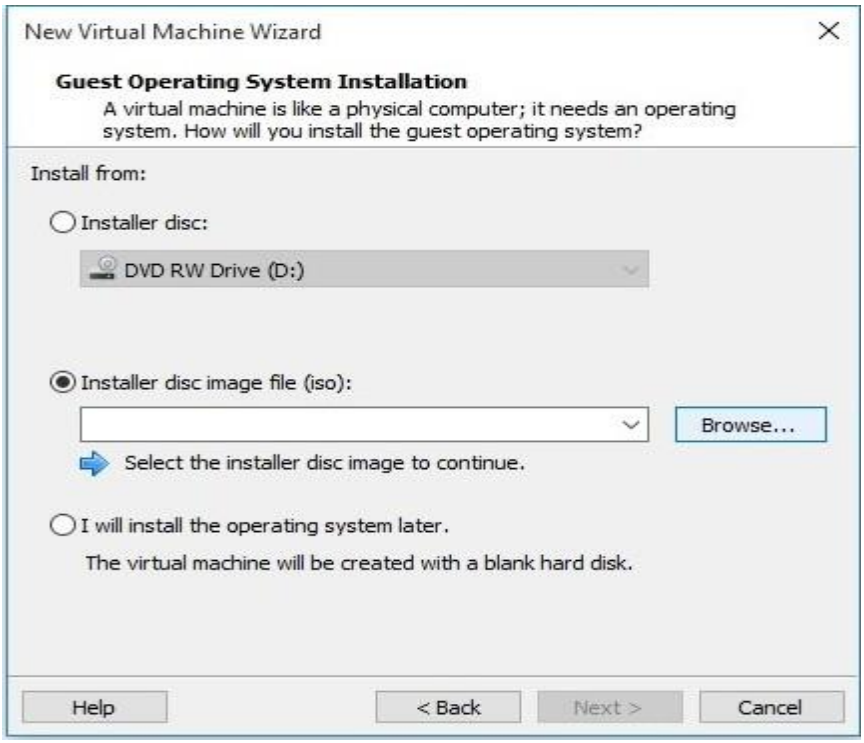
Step 3: Click on the Create a new virtual machine tab to install any operating system on the VMware.



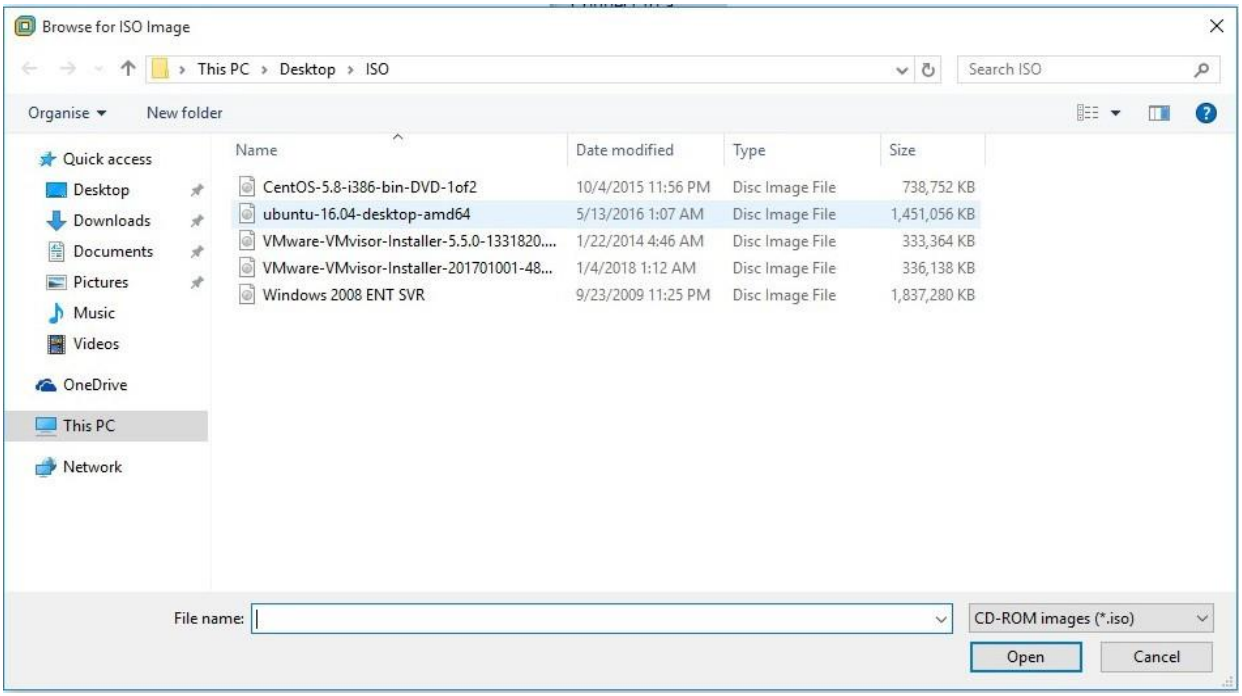
Step 4: Selecting a virtual machine configuration – When you start the New Virtual Machine wizard, the wizard prompts you to select a typical or custom configuration.

- Typical Configuration – If you select a typical configuration, you must specify or accept defaults for a few basic virtual machine settings.
  - ✓ How you want to install the guest operating system.
  - ✓ A name for the virtual machine and a location for the virtual machine files.
  - ✓ The size of the virtual disk and whether to split the disk into multiple virtual disk files.
  - ✓ Whether to customize specific hardware settings, including memory allocation, number of virtual processors, and network connection type.
- Custom Configuration – You must select a custom configuration if you need to perform any of the following hardware customizations.
  - ✓ Create a virtual machine that has a different Workstation version than the default hardware compatibility setting.
  - ✓ Select the I/O controller type for the SCSI controller.
  - ✓ Select the virtual disk device type.
  - ✓ Configure a physical disk or an existing virtual disk instead of create a new virtual disk.
  - ✓ Allocate all virtual disk space rather than let disk space gradually grow to the maximum disk size.

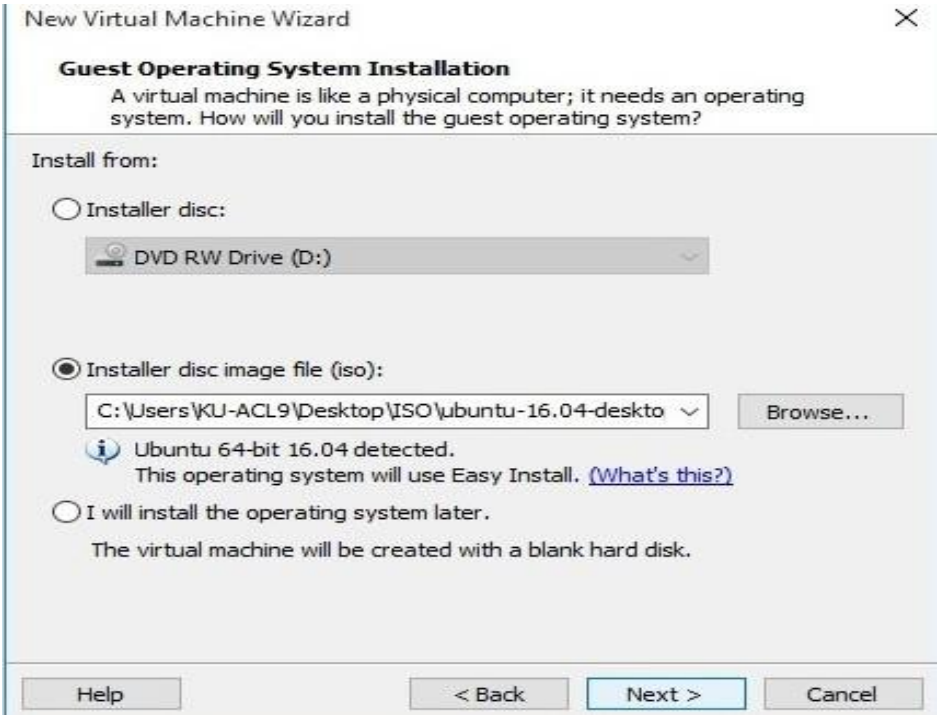
Step 5: A Guest Operating System Installation window will be open. Select the installer disc image file option to load any operating system from the ISO folder.



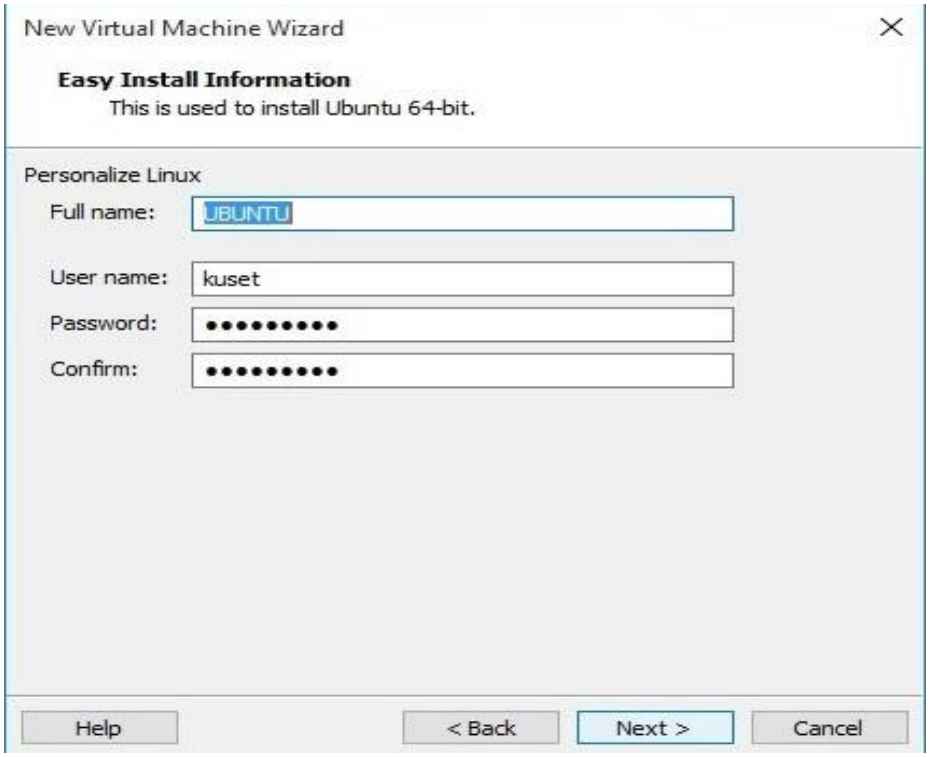
Step 6: Click on the browse option and select the desired operating system to be installed. For example here ubuntu has been selected.



Step 7: Click next to install the guest OS on the VMware.

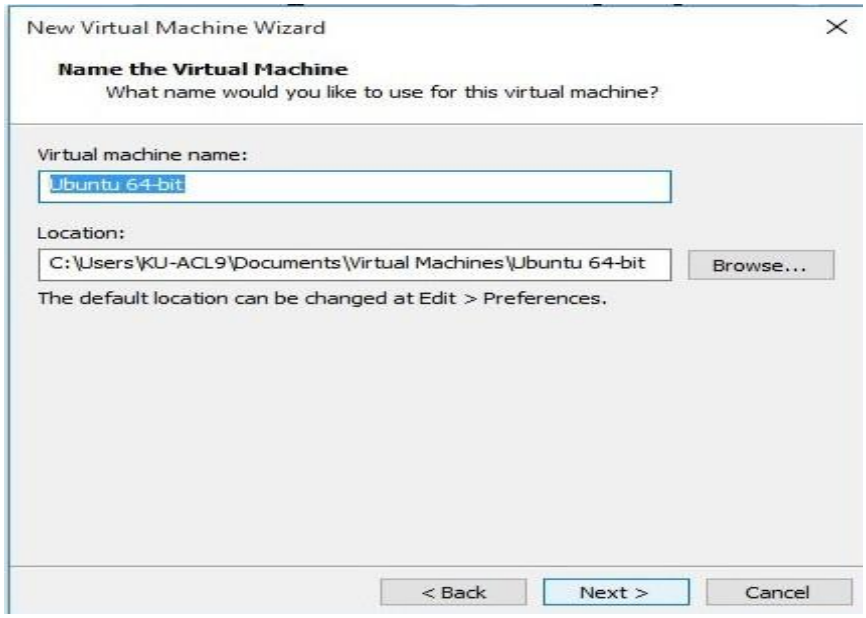


Step 8: Providing Easy Install Information – When the New Virtual Wizard detects an operating system that supports Easy Install, the wizard prompts you for information about the guest operating system. After giving the details click on the next button to proceed further.



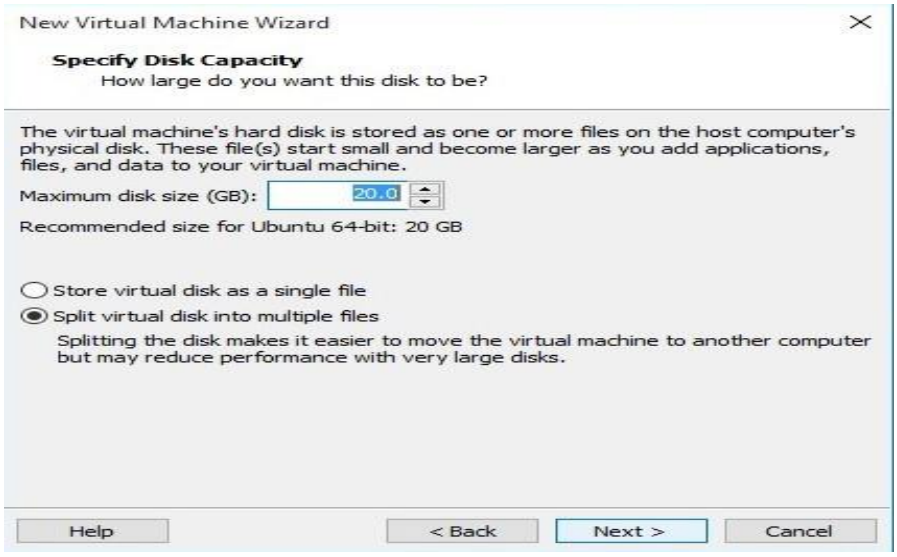
Step 9: Specifying the Virtual Machine Name and File Location –

- The New Virtual Machine wizard prompts you for a virtual machine name and a directory for the virtual machine files.
- For standard virtual machines, the default directory for virtual machine files is located in the virtual machine directory. For best performance, do not place the virtual machines directory on a network drive.
- Click on the next button to process further.

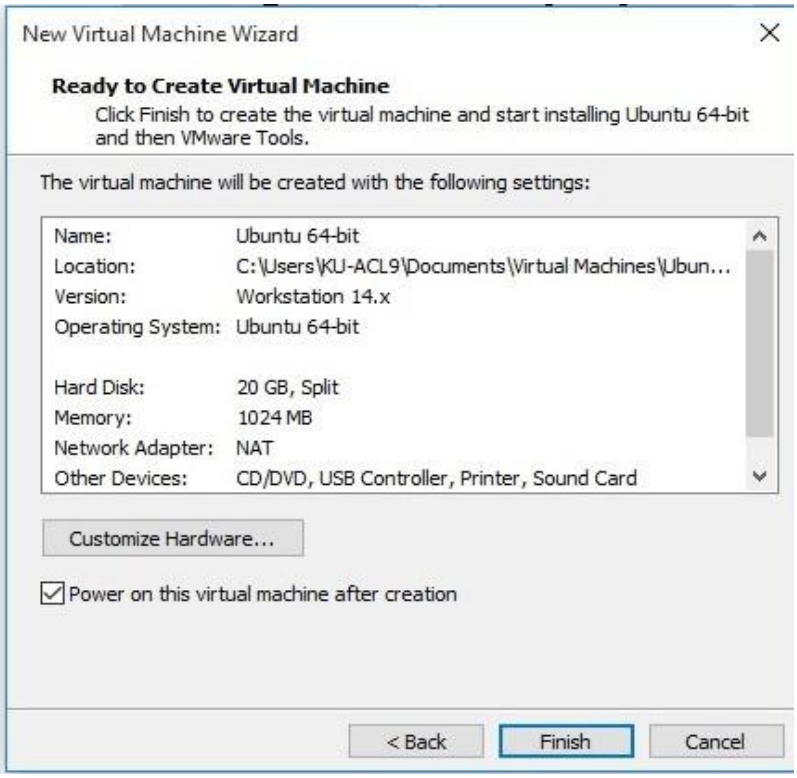


Step 10: Specifying Disk Capacity for a Virtual Machine –

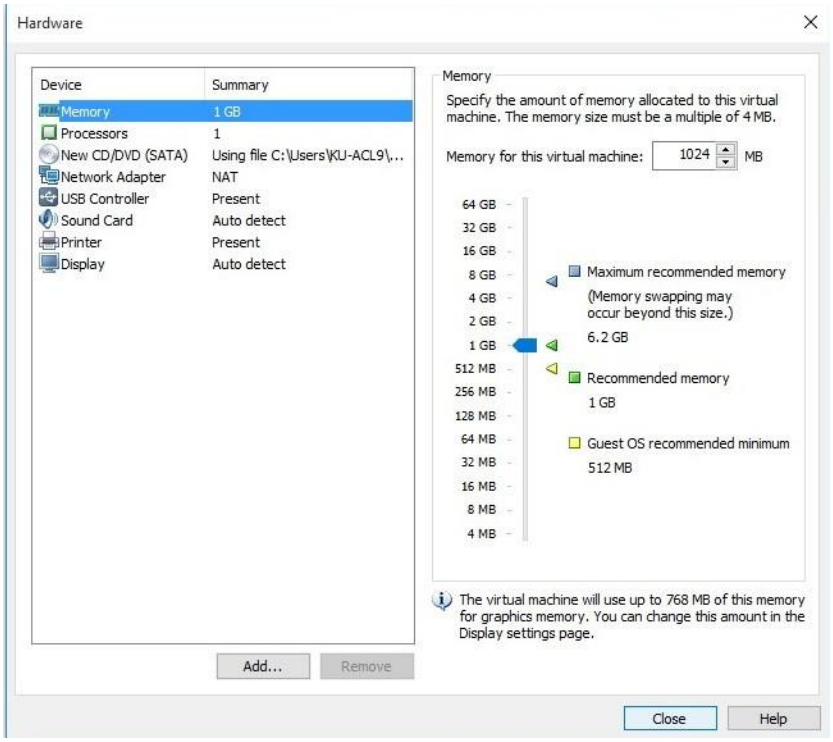
- Give the maximum disk size as per your preference. By default it takes 20 GB.
- Click the option to store virtual disk as a single file or you want to split virtual disk into multiple files.
- Click on the next button after giving the details.



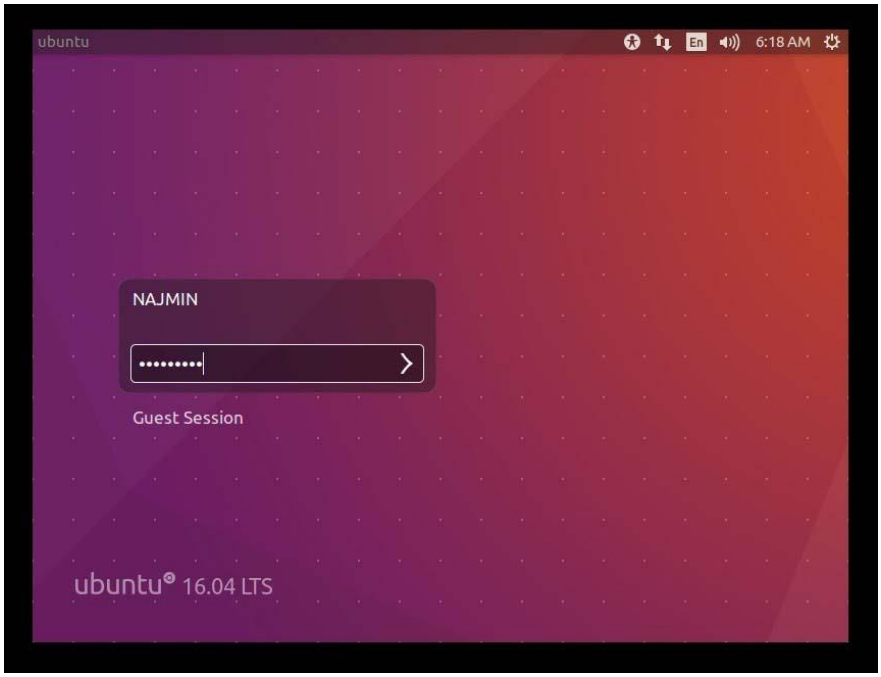
Step 11: Click finish to create the virtual machine and start installing guest OS and then VMware tools.



Step 12: Here one can also customize hardware by click on the Customize Hardware option and do the necessary changes as shown below. After the adjustments are done click on the close tab and then finish the process.



Step 13: The installation may take a while. After which the Ubuntu window will be displayed and you have to provide the password to access the account.



Step 14: You are all set to use the Ubuntu operating system on VMware.