

Lab 5 – Installing VIM Editor, VMWare WorkStation tools and creating a Full-clone of your Linux Virtual Machine (Ubuntu Desktop)

This assignment relates to the following Course Learning Requirements:

- CLR 2: Explain clearly and access the information and resources contained in Brightspace.
- CLR 5: Describe the architecture and processing of hardware and software functional components of a computer.
- CLR 8: Install and configure an operating system in a virtual environment using VMWare.

Objective of this Assignment:

- Installing VIM Editor.
- Installing VMWare Workstation tools
- Creating Full-Clone of your Linux Virtual Machine (Ubuntu Desktop).

Pre-Assignment Instructions:

You will require the followings:

- Laptop running Microsoft Windows 10.x.
- Network Connection to Internet and sufficient download Bandwidth.
- VMWare Workstation already installed.
- Linux Virtual Machine (Ubuntu Desktop) already installed

Assignment Tasks:


 Follow the steps described below.

Procedure outlined:

Lab 5 has following parts:

1. Part -1: Installing VIM editor.
2. Part -2: Installing VMWare tools.
3. Part -3: Cloning Linux Virtual Machine

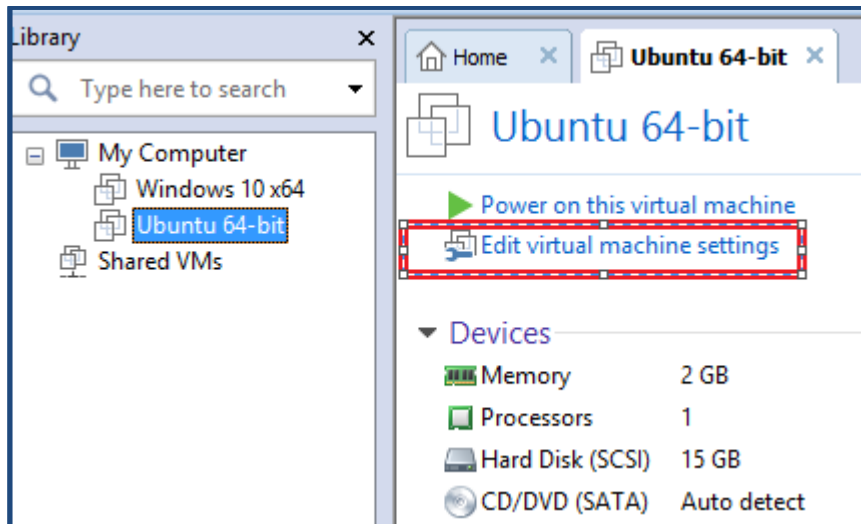
The following instructions will guide you through the process to complete Lab 05.

 **Note:** The steps and screen captures shown in this lab may be slightly different from your screen.

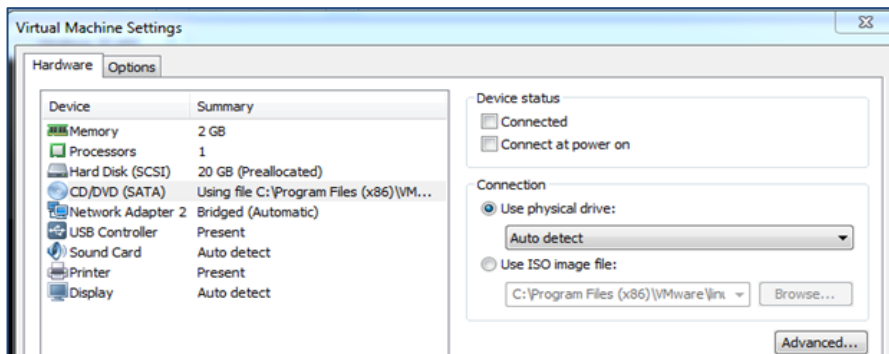
Preparing your Computer for Linux Virtual Machine

Before starting your Linux virtual machine, you'll need to first remove the installation media.

1. Select the Ubuntu 64-bit virtual machine
2. Select **Edit the virtual machine settings**



3. Select the **CD/DVD** device on the left pane
4. On the right-hand side under "Device Status" uncheck "**Connect at power on**" box and
5. Then select **Use physical drive** radio button
6. Select auto detect from the drop down list.



7. Click the **OK** button at the bottom and close the Virtual Machine Settings window
8. Power on your Linux VM
9. Log on to Linux.

Installing VIM and VMWare Tools

Open a terminal window by using one of the following methods:

1. Method 1:
Press the Super key (the windows key) and typing "terminal"
2. Method 2:
Press CTRL-ALT-T on the keyboard

Setting the root password

Set root user password using the command in terminal: **sudo passwd root** [enter]

The root password should be different from your logon password. Once you enter your root password, you should write it down and keep it safe for future use.

(Part-1) Installing VIM

To Install VIM (the Linux editor to be used in future courses)

- ☞ enter the following command in the terminal window: **sudo apt-get install** [enter]
- ☞ Take a screen capture of your terminal screen showing VIM installed.

(Part-2) Install VMWare Tools

VMware Tools is a suite of utilities that enhances the performance of the guest operating system and improves management of the virtual machine.

- ☞ To Install VMWare Tools enter the following command in the terminal window: **sudo apt-get install open-vm-tools-desktop** [enter]
- ☞ When VMWare Tools have finished installing, type the following commands at the command prompt: **reboot** [enter] this command will reboot your VM to allow the tools installation to finish.
- ☞ Once your virtual Linux computer restarts, log in to Ubuntu again, and open a terminal window.
- ☞ Type the following command in the terminal window:
vmware-toolbox-cmd[space]-v[enter]

You should see a screen similar to the one shown below.

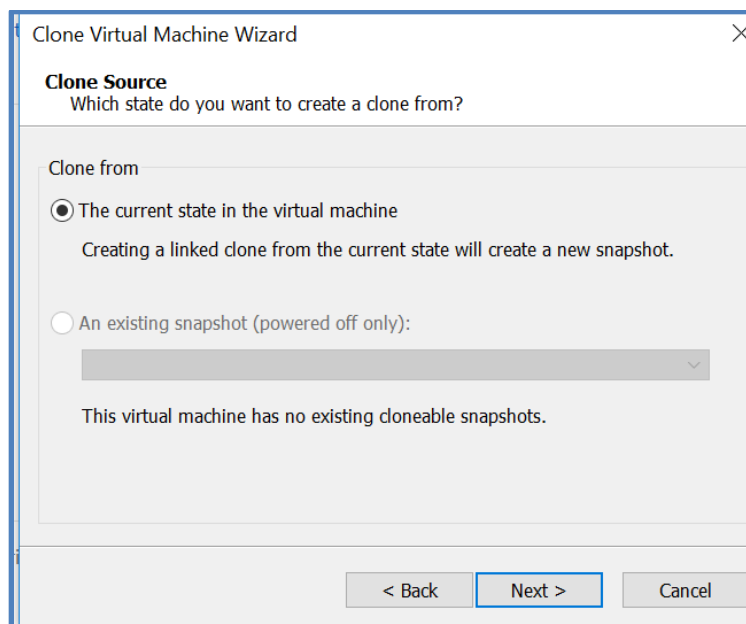
- ☞ Take a screen shot of terminal screen showing the VMWare tools installed for submission.

```
omearam2@omearam2-virtual-machine: ~  
omearam2@omearam2-virtual-machine:~$ vmware-toolbox-cmd -v  
10.1.6.4793 (build-5214329)  
omearam2@omearam2-virtual-machine:~$
```

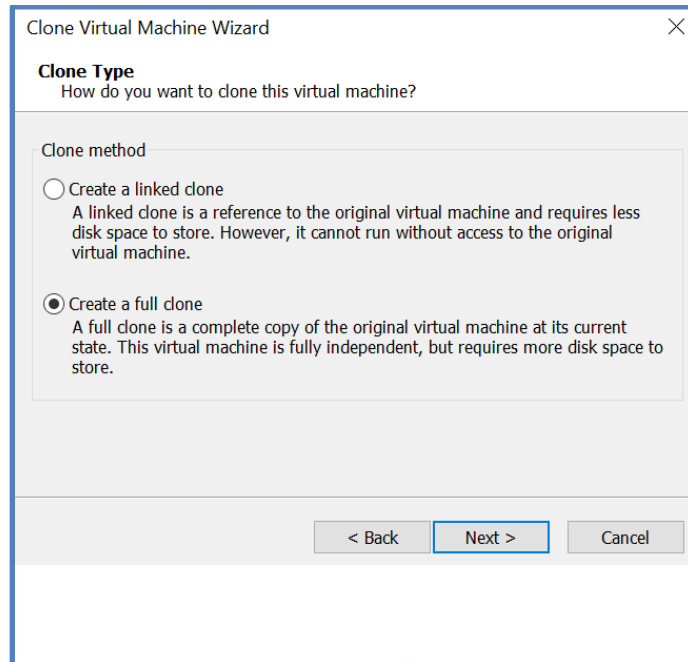
(Part-3) Creating a clone of your existing VM

- Start your VM Work station program and select your Linux Virtual Machine (VM) by clicking on it.
 - It should now be highlighted in blue.
 - Before going any further, ensure your Linux VM is off.
 - Now you are ready to start.

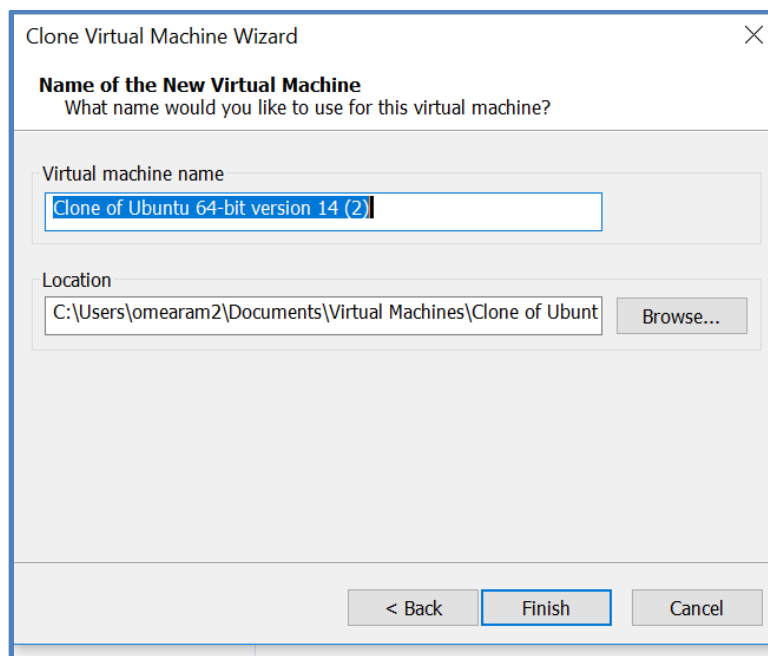
- 1. Right-click on your Linux VM
 - a. then select => **Manage**
 - b. then select => **Clone**
- 2. The **Clone Virtual Machine** wizzard appears.
 - a. Click on the **Next** button.
- 3. Decide Clone Source
 - a. Select (clone from) The current state of the virtual machine radio button.
 - b. Click on the **Next** button.



4. Decide Clone Type and Clone Method:
 - a. Select the **Create a full clone** radio button
 - b. Click on the **Next** button.



5. Name and Location of the New Virtual machine:
 - a. You may accept the default name or give your own meaningful name of the virtual machine



- a. Keep default location.
- b. Click on the **Finish** button.

- ☞ The cloning process take a few minutes, at the end of the process you should a complete copy of your existing machine.
- ☞ Take two screen shots before and after logging into the clone VM

Deliverables (a document file lastName_studentID_Lab05.docx):

Congratulations!! you have completed your Lab 05

1. Submit the screen shots those are already mentioned:
2. Please confirm that the cloned Ubuntu Desktop works.
3. List any problems you encountered and how you solved them. If you had no problem, then say so NO.
4. Submit after the followings are completed:
 - a. Create a folder as yourLastName_studentID_Lab05All.
 - b. Keep the .docx file and any other file. Now, go one level up
 - c. Zip this folder (preferably with 7 zip) as yourLastName_studentID_Lab05All.zip and submit that.