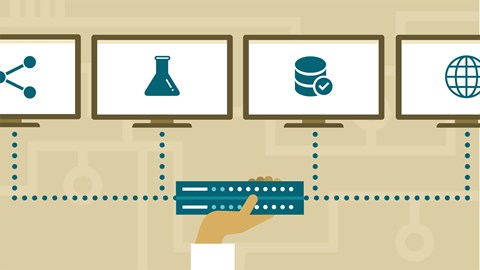
**Description**

This VMware ESXi & vSphere training course by Infinite Skills gives you an overview of installing and configuring a vSphere environment. You will quickly become familiar with the core features of vSphere, and how to install and configure them. This tutorial is designed for the absolute beginner, and you do not need any prior vSphere experience to get the most from the lessons.  
  
You start the training with lessons on installing and configuring vSphere. You will cover topics such as installing VMware ESXi, working with the vSphere Client, and managing Hosts using the vSphere Client. The training covers how to configure Networking and Storage, and to create and configure Virtual Machines. You will learn about installing and using vCenter, and the vSphere Client. The course shows you how to work with a Distributed Resource Scheduler (DRS), configuring for High Availability (HA) and vSphere Data Protection (VDP).

[](https://www.lynda.com/Amazon-Web-Services-tutorials/VMware-Cloud-Deploying-Managing-AWS/691204-2.html)

**Preview Course**

**VMware Cloud: Deploying and Managing on AWS**

[](https://www.lynda.com/VMware-tutorials/Learning-VMware-vSphere-6-5/573604-2.html)

**Preview Course**

**Learning VMware vSphere 6.5**

[](https://www.lynda.com/ESXi-tutorials/Configure-Administer-VMware-vSphere-Security/499090-2.html)

**Preview Course**

**VMware vSphere: Configure and Administer Security**

[](https://www.lynda.com/NSX-tutorials/Learn-VMware-NSX-Security/474418-2.html)

**Preview Course**

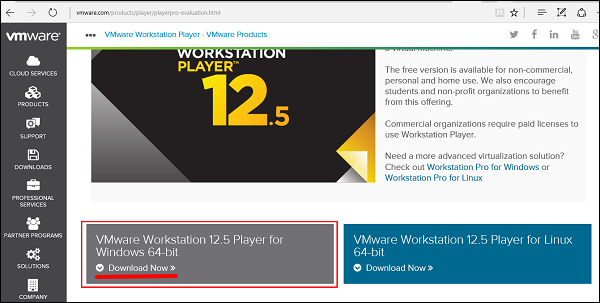
**VMware NSX: Security**

## Installing VMware Workstation Player

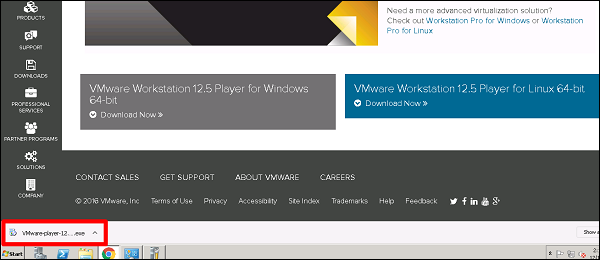
VMware workstation player is a “hosted hypervisor”, so you have to have a pre-installed OS before continuing to install it.

VMware workstation player is free version and available for non-commercial, personal and home use. They also encourage students and non-profit organizations to benefit from this offering. To download the VMware workstation player, you can click on the following link <https://www.vmware.com/products/player/playerpro-evaluation.html>. To install the VMware workstation player, follow the steps given below.

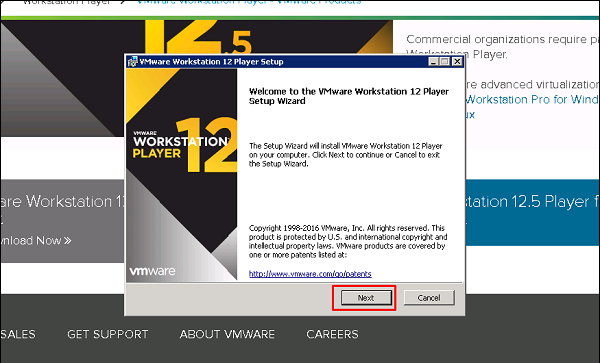
**Step 1** − Click on “Download Now” as shown in the screenshot below.



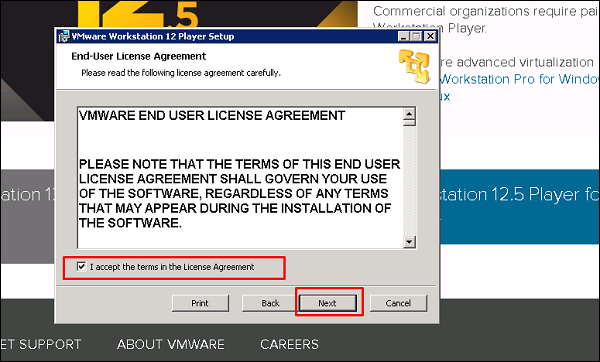
**Step 2** − You will see that a file has been downloaded → double click on it.



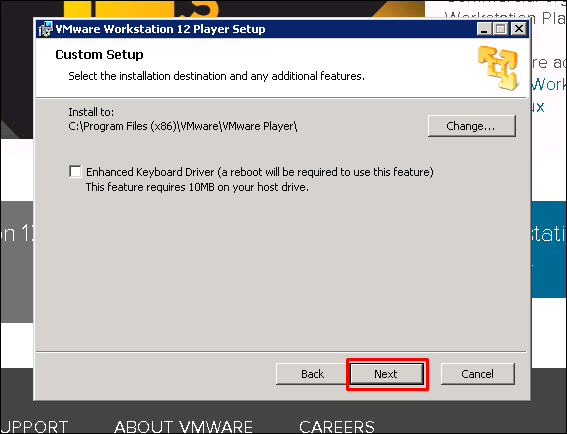
**Step 3** − A Table will pop-up initializing the installation of VMware → Click “Next”.



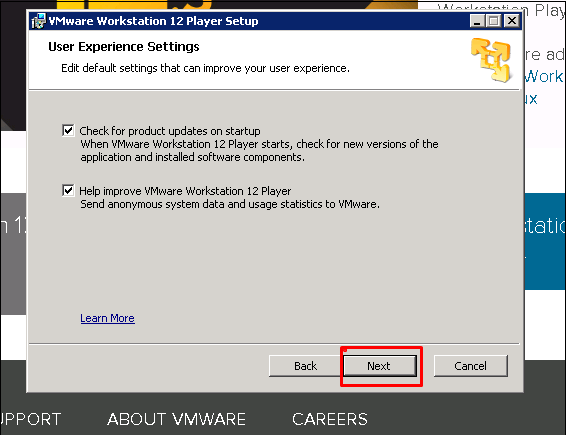
**Step 4** − Check the box “I accept the terms in the license agreement” → Click on “Next”.



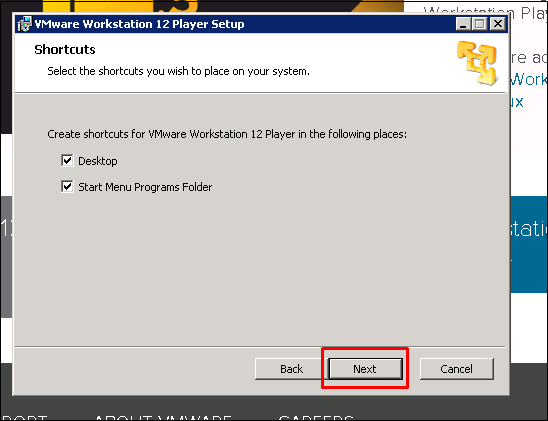
**Step 5** − Once again, click on the “Next” button.



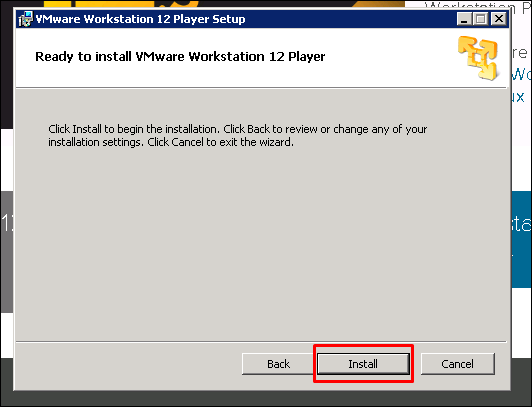
**Step 6** − Leave the default values and click on “Next”.



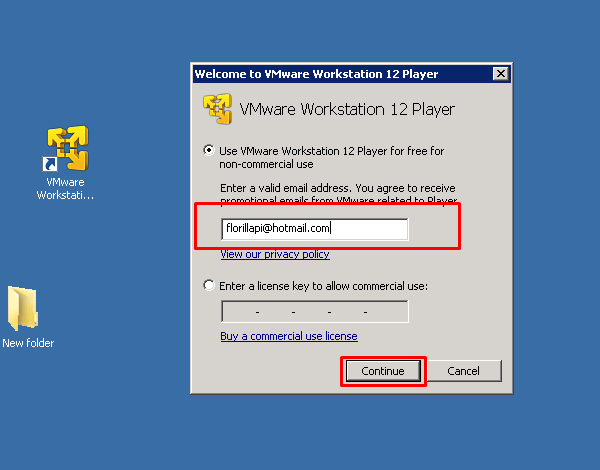
**Step 7** − Once again, click on “Next”.



**Step 8** − Click on “Install”.



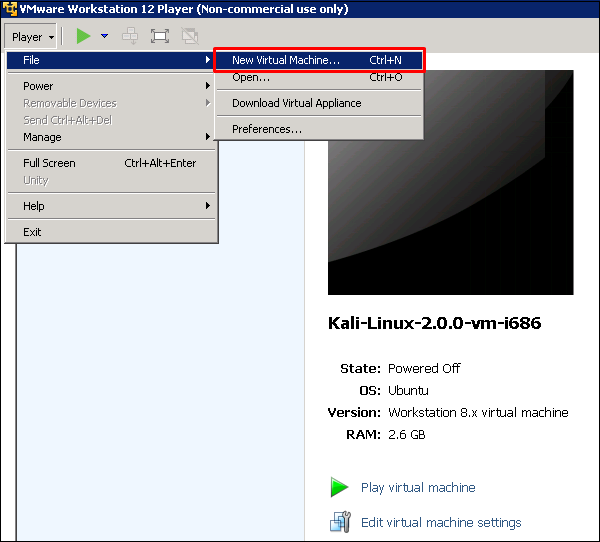
**Step 9** − An icon will be created on the desktop. Click on it and a table will pop–up, where you have two possibilities: If you want to use it as a non-commercial version, just enter your email address. If you want to use it as a commercial version, check the second option and enter your serial key.



## Creating a VM with VMware Workstation

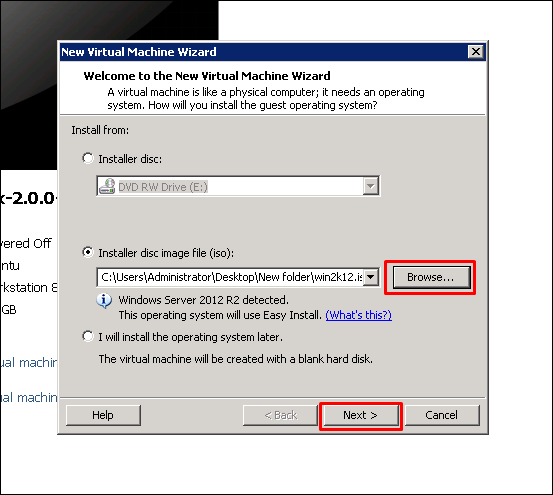
To create a virtual machine, we have to follow the steps given below.

**Step 1** − Click on “Player” → File → New Virtual Machine.

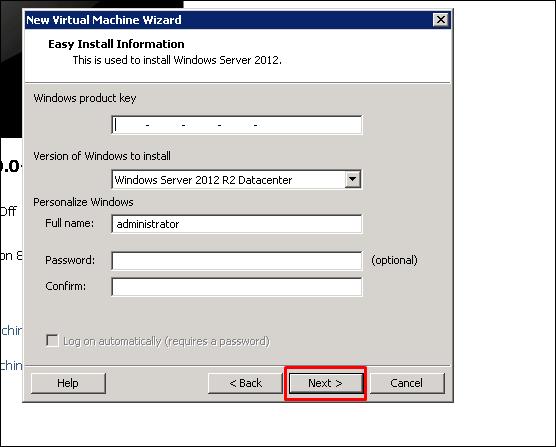


**Step 2** − A table will pop-up requesting you to find a “Boot disk”, “Boot Image” or to install OS at a later stage.

We will choose the second option and click on “Browse”. Then we have to click on the ISO image, which we want to install. Once all this is done, click on “Next”.



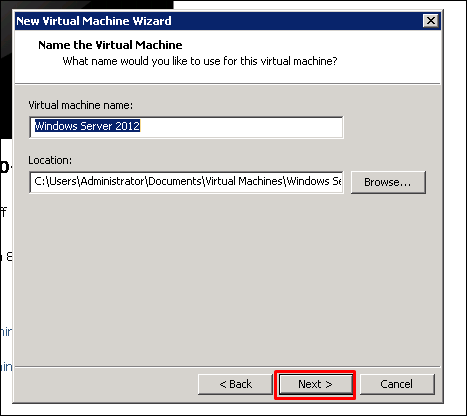
**Step 3** − As I am installing windows server 2012, it will pop-up a table requesting to enter the serial key → click directly on “Next”, if you want to activate the noncommercial version for Windows.



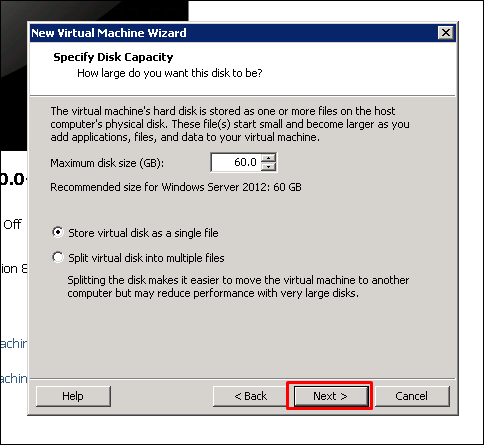
**Step 4** − After the above step is complete, a dialogue box opens. Click “Yes”.



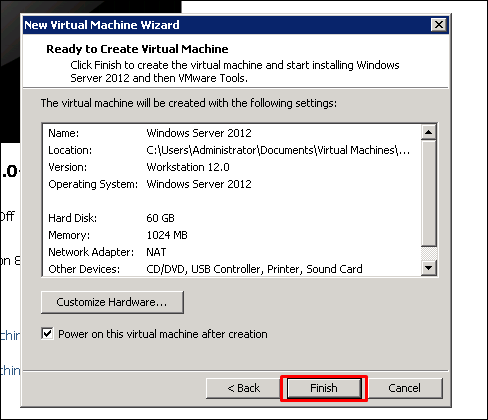
**Step 5** − Click “Next”.



**Step 6** − In the “Maximum size disk” box, enter the value of your virtual Hard disk, which in our case is 60GB. Then click on “Next”.

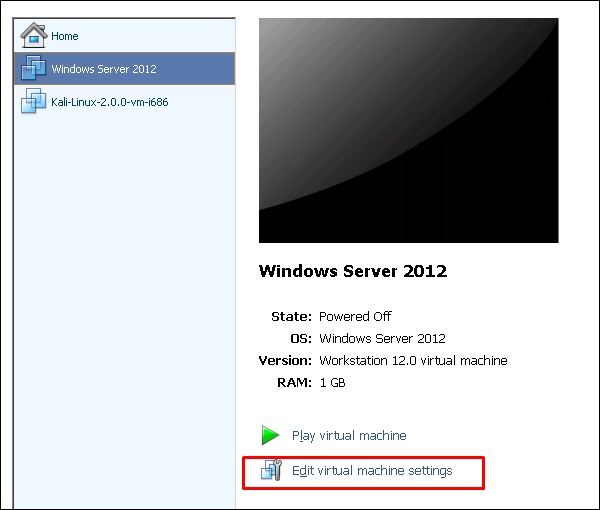


**Step 7** − Click on “Finish”.

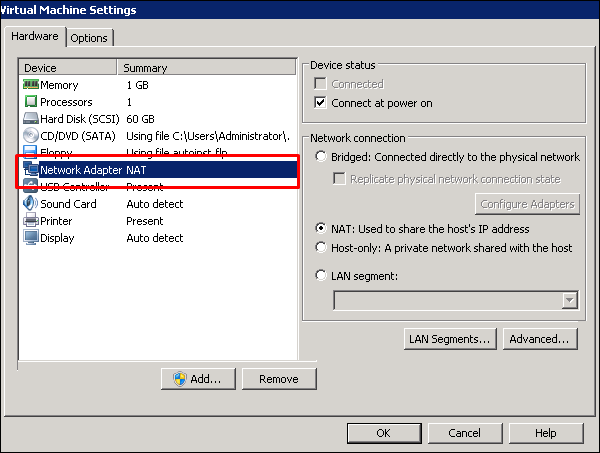


## Setting up Networking with VMware Workstation

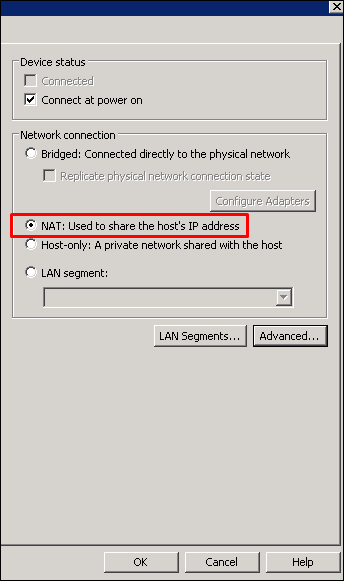
To set up the networking modes of a virtual machine in a VMware Workstation, we have to click on the “Edit virtual machine settings”.



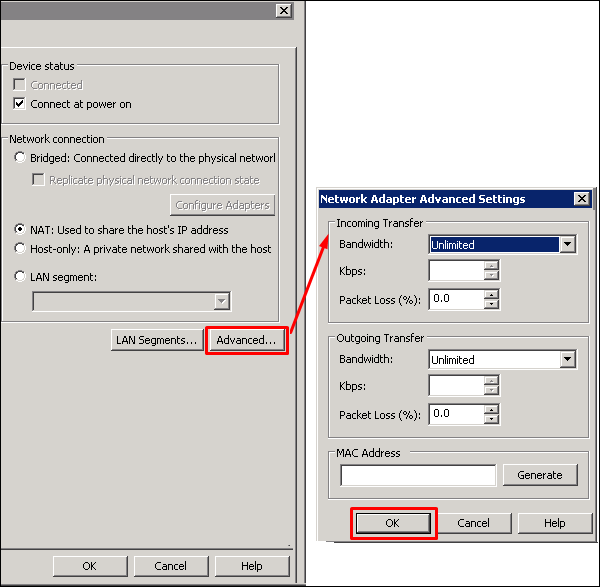
A table will be opened with the settings of networking and on the left hand side panel of this table click on “Network Adaptor”.



On the left of this table, you can see the networking modes as shown in the following screnshots.



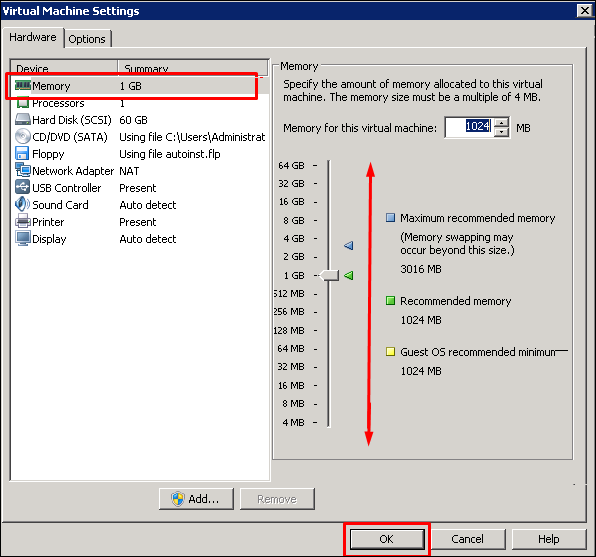
If we want to limit the bandwidth usage of a virtual machine, click on “Advance” and set the incoming and outgoing bandwidths.



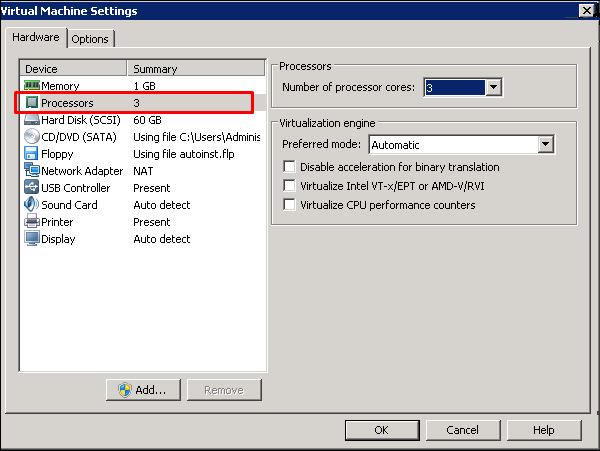
## Allocating Processors & Memory to a VM using VMware Workstation

To allocate memory to a virtual machine in a VMware Workstation, we have to click on “Edit virtual machine settings”. A table will be opened and we will have to click on “Memory”.

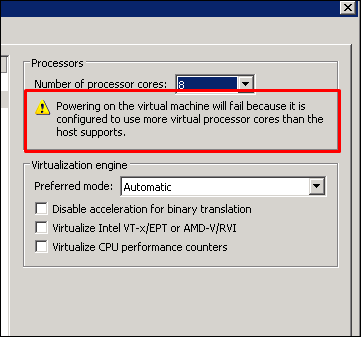
On the left hand side panel, we have to enter the amount of memory manually or by moving the arrow up and down as shown in the following screenshot.



If you click on “Processors”. On the left hand side panel, we have to enter the amount of vCPU as shown in the screenshot below.



**Note** − If you put more vCPU-s than what the host supports, it will fail to power on the VM.

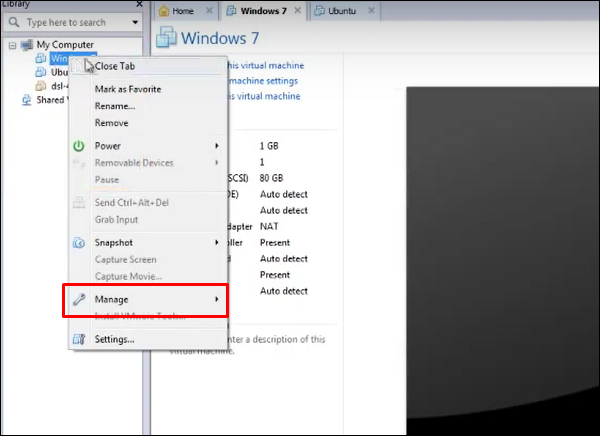


## Duplicating a VM Using VMware Workstation

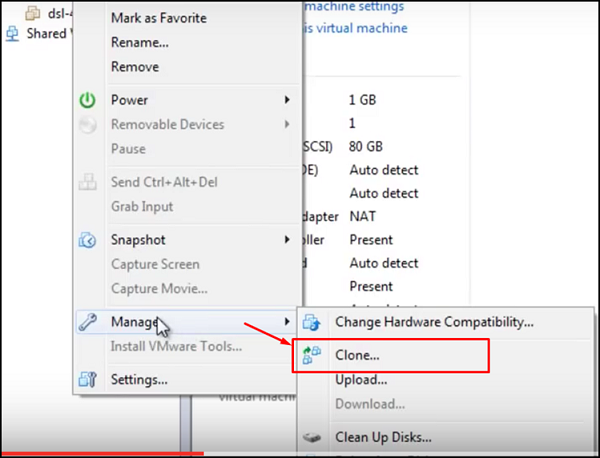
To create duplicates of VM machines, we have to use the VMware Workstation Commercial Version.

Let us see how to do it in practice by following the steps given below.

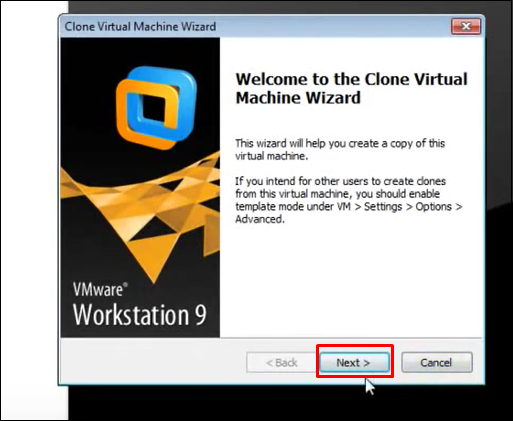
**Step 1** − Open the VMware managing console and right click on a VM that you want to duplicate. Click on “Manage”.



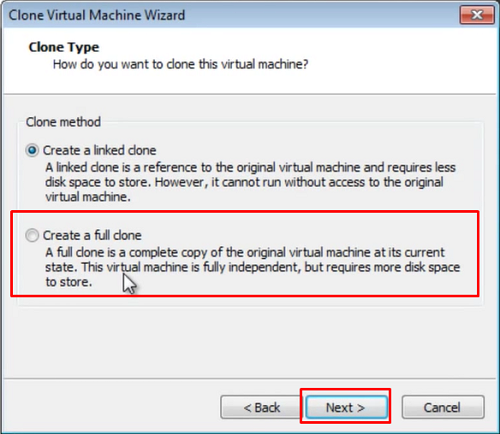
**Step 2** − Click on “Clone…” and a wizard will be open.



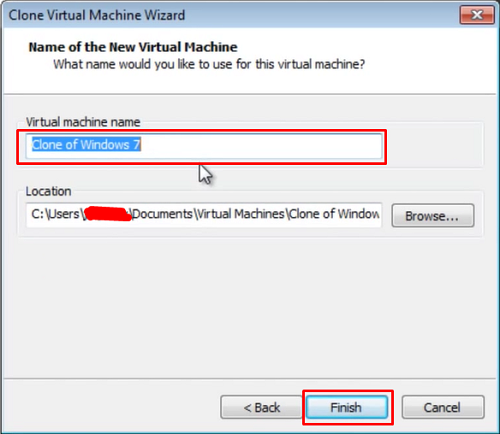
**Step 3** − Click on “Next”.



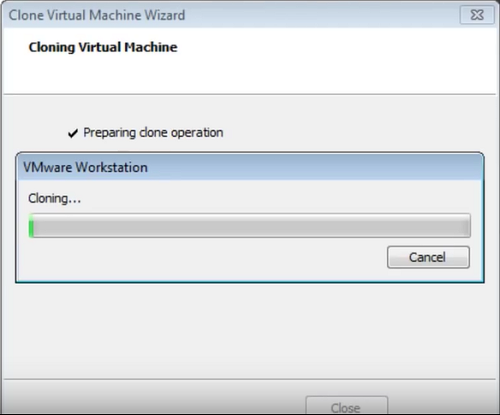
**Step 4** − Click on “Create a Full Clone” and “Next”.



**Step 5** − Put a name for the clone that will be created and “Finish”.



The following screenshots describe the process of cloning.



Once the cloning process is complete, the following window will open.

