Assignment 1:

Problem Statement:

Install centos 6.4 in virtual box from ISO image

Solution:

Okay, so let us start some hands on. See, all our labs are based on virtual machines and don't worry, you will learn to set them up from scratch! So let's get started by learning how to set up our first virtual machine.

I will explain the whole process step by step.

The first step is to download the virtualization software. Well, you can use any software which can perform virtualization, but I prefer VMWARE Player. It's free and works well for most of our lab scenarios. So let's get a copy of it. Go to the link mentioned below to download it. Depending on the operating system that you are using, you may download 32 or 64 bit versions of the same.

https://my.vmware.com/web/vmware/free#desktop_end_user_computing/vmware_player/7_0

Once downloaded, follow the wizard to install it. It's really simple!

The next step is to get a copy of CentOS ISO file. You can use any version, but I prefer 6.5. You can go to the CentOS official site and download the ISO directly from there.

Go to the following link

http://www.centos.org/download/

Scroll all the way down and click on "click here" under older versions.

On the next page, scroll down to archived versions and click on the tree next to 6.5

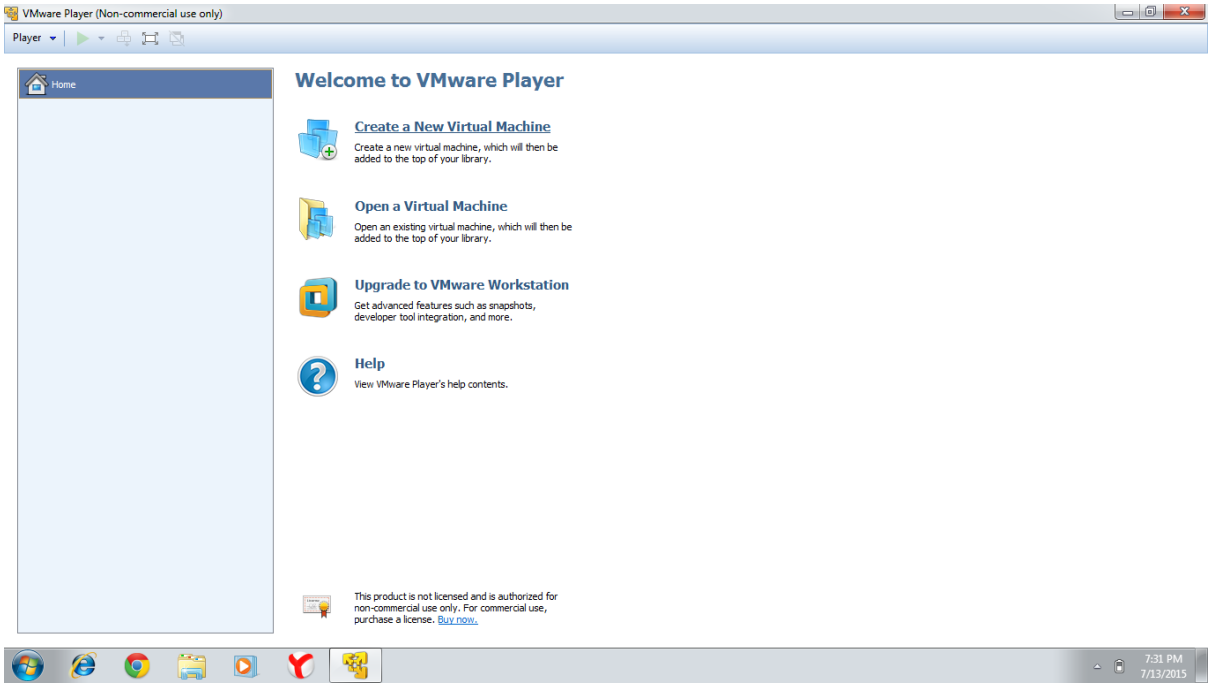
On the next page, click on the folder named isos

On the next page, click on the folder named x86_64

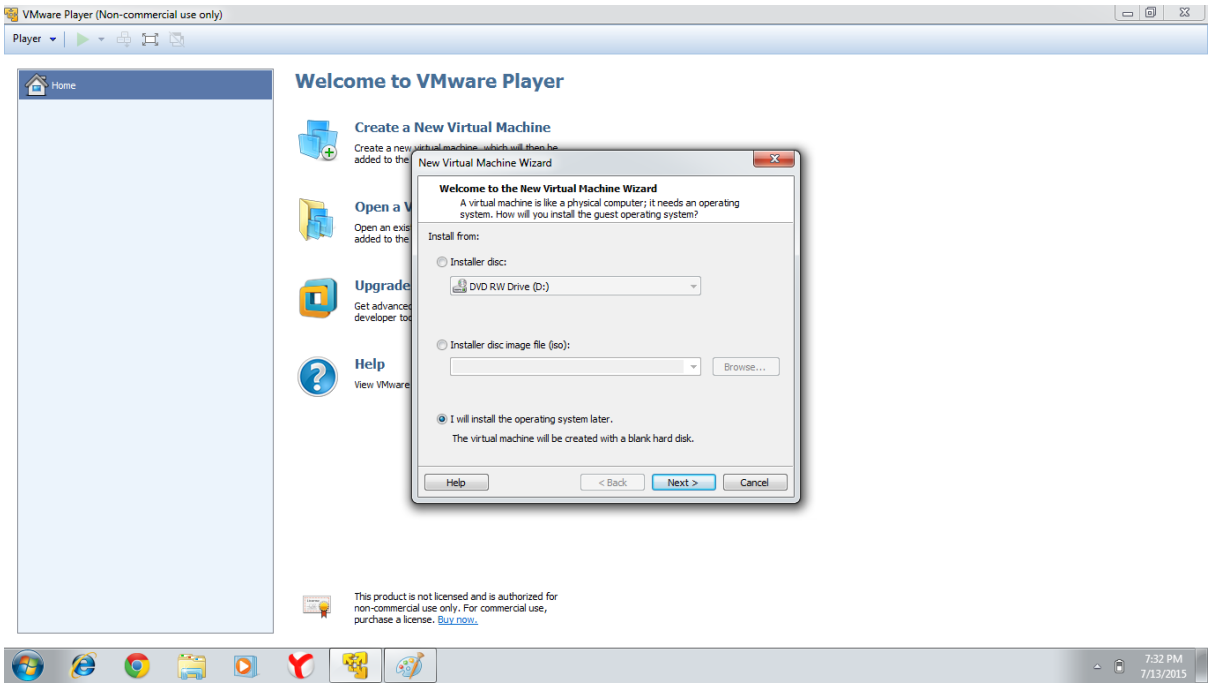
Clock on CentOS-6.5-x86_64-bin-DVD1to2.torrent and download the torrent file. Once done, you may open the torrent file in a torrent client and download the entire ISO. Note that it is roughly 4 GB in size and will consume your bandwidth.

Now, open VMWARE Player (I will refer to it as player for the rest of the lab sessions). It will ask you to give your e mail address. Type it in and open the main console.

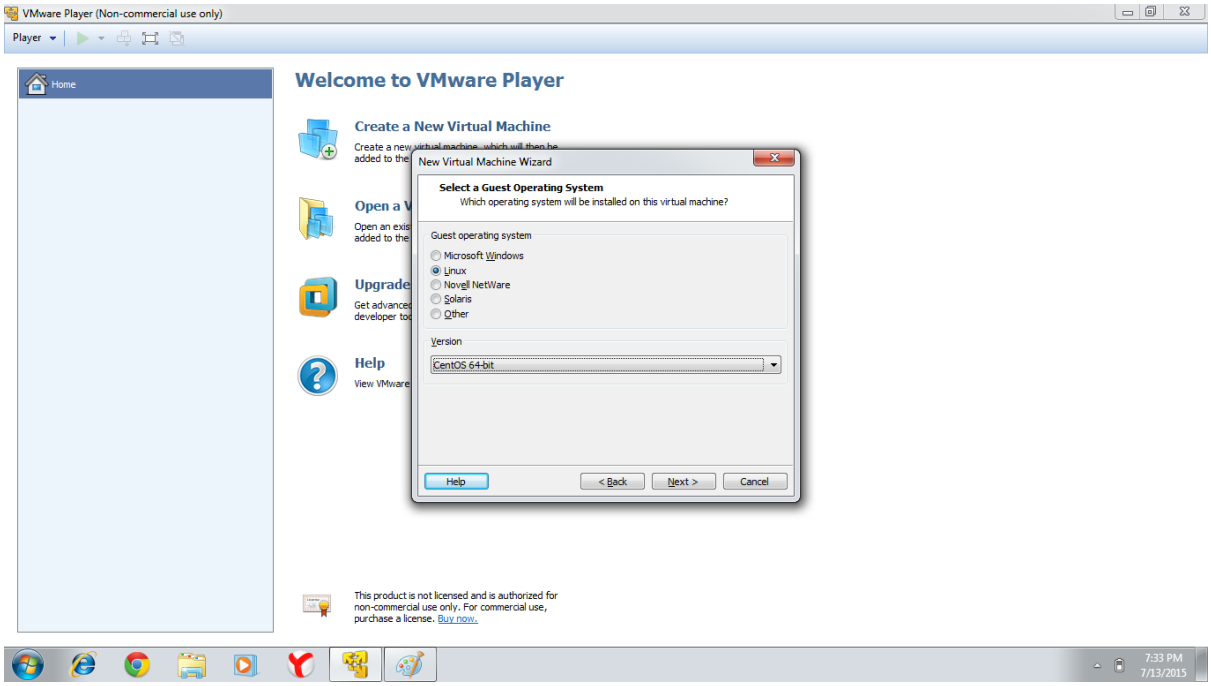
Click on crate a new virtual machine



On the next screen choose I will install the OS later.

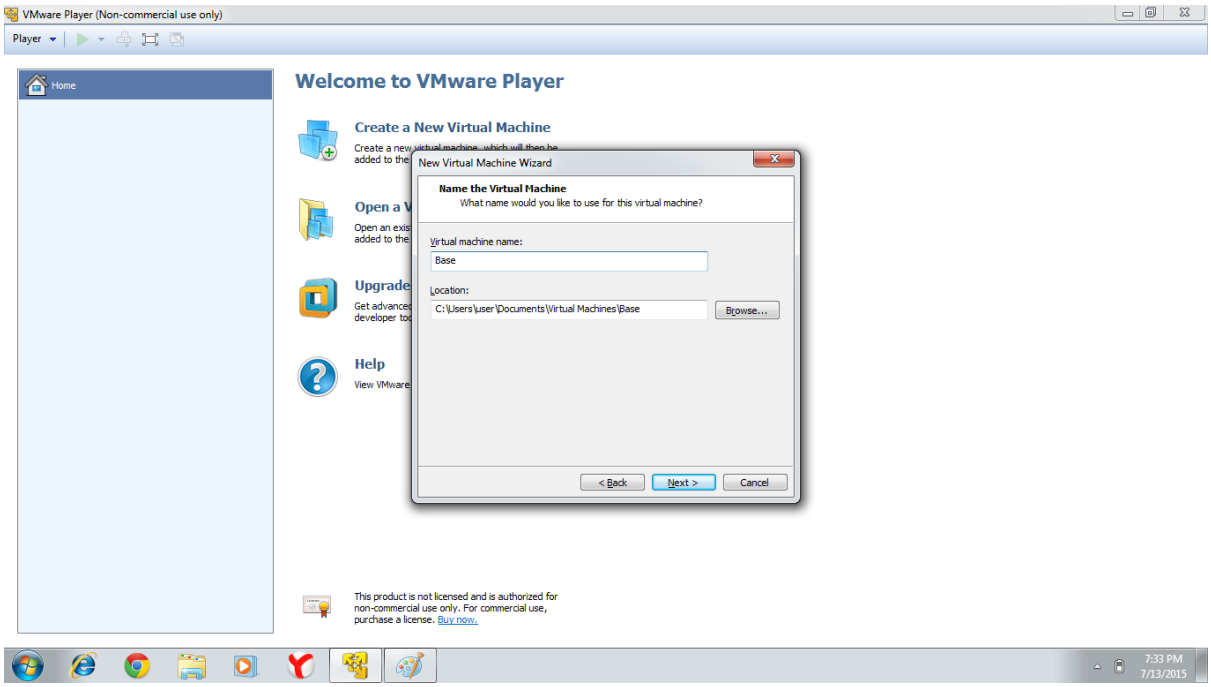


On the next screen, select Linux and Cent OS 64 bit as version

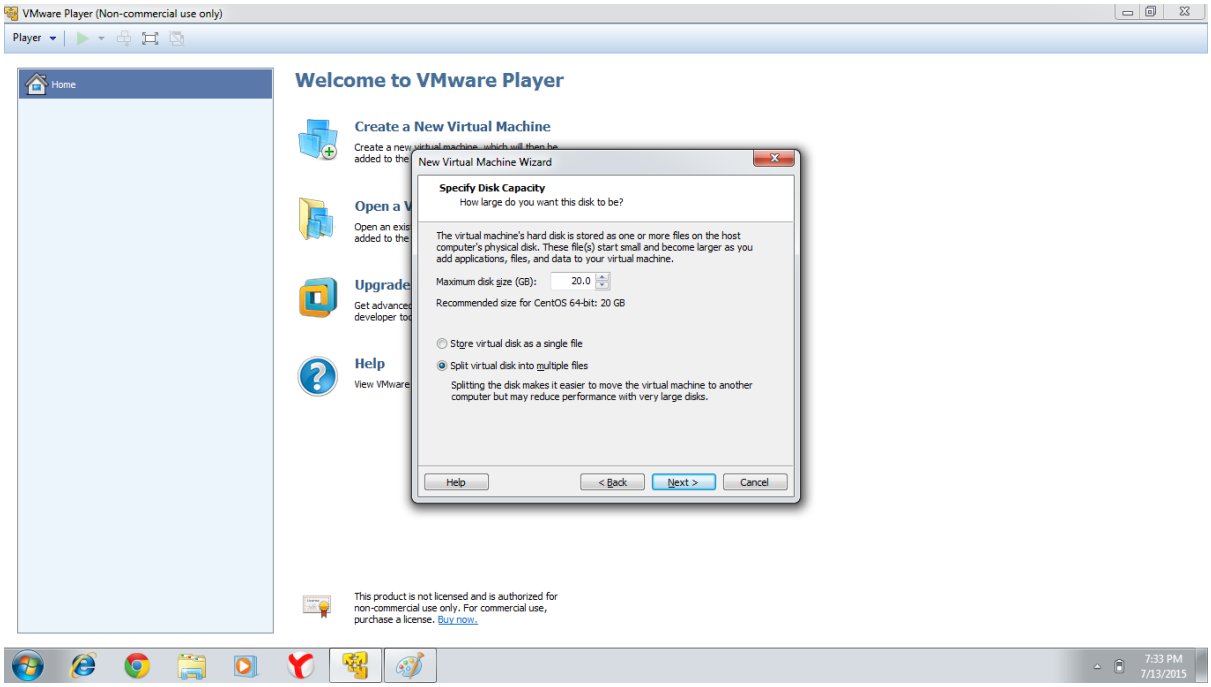


On the next screen give a name “Base” to our virtual machine.

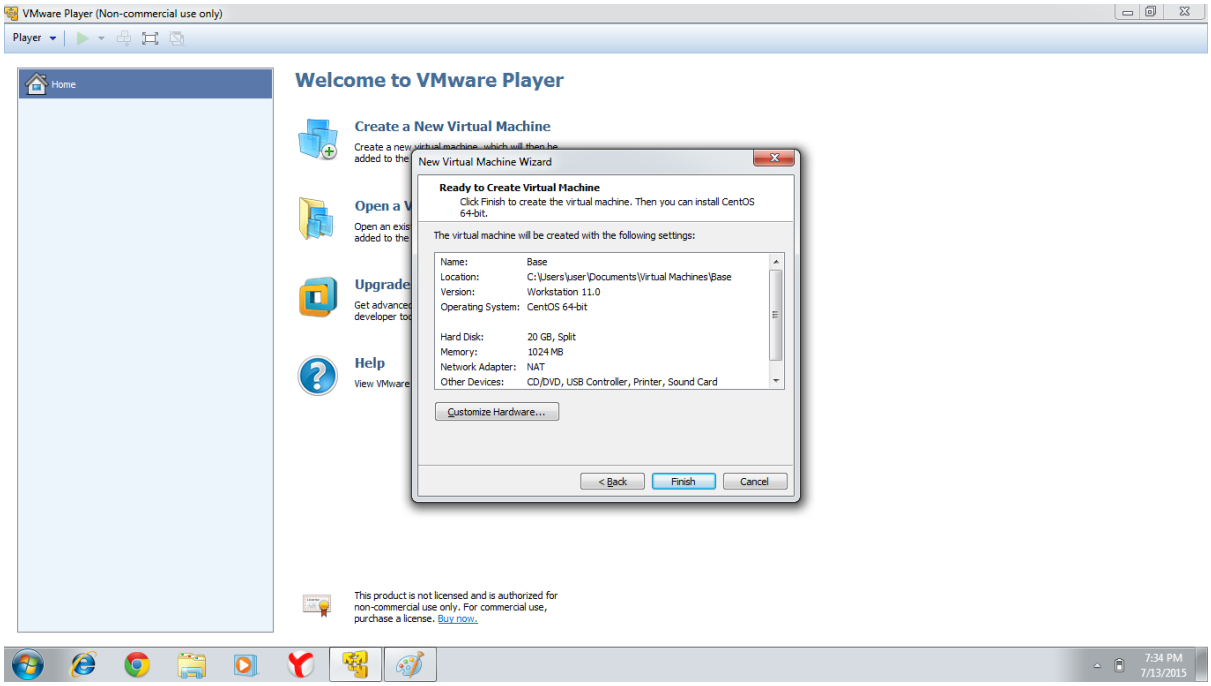
Note – You may want to change the location of the virtual machine as well. By default it will be in C drive.



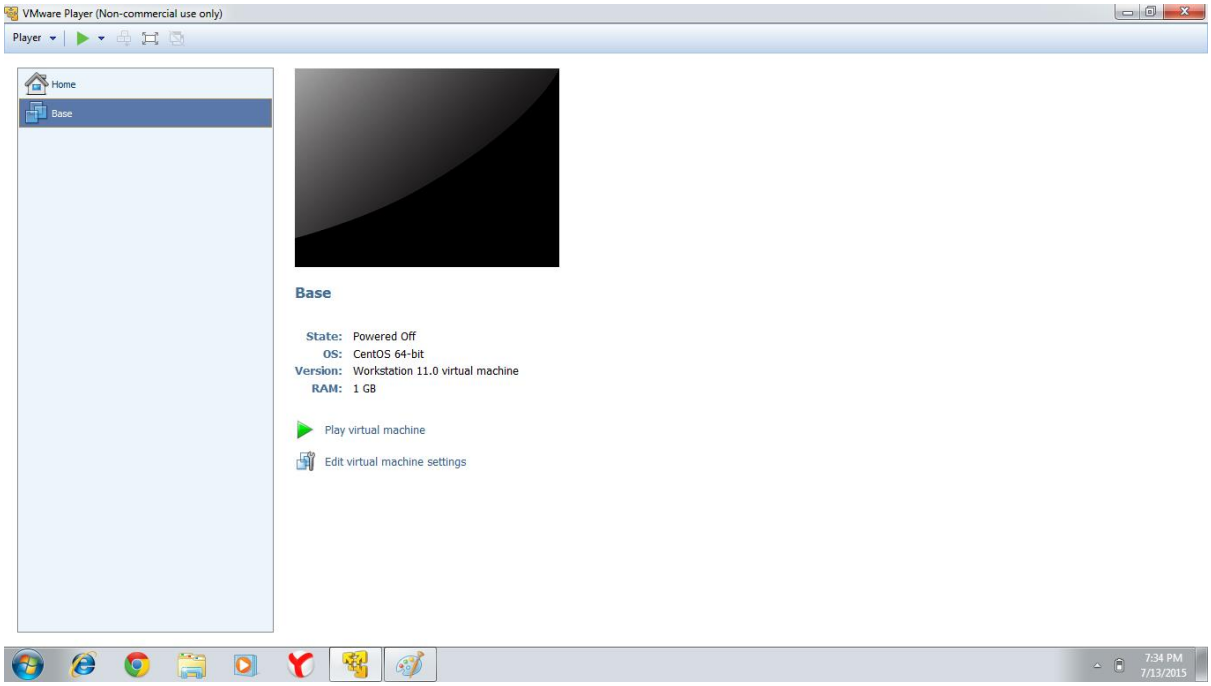
On the next screen, do not make any changes and click next.



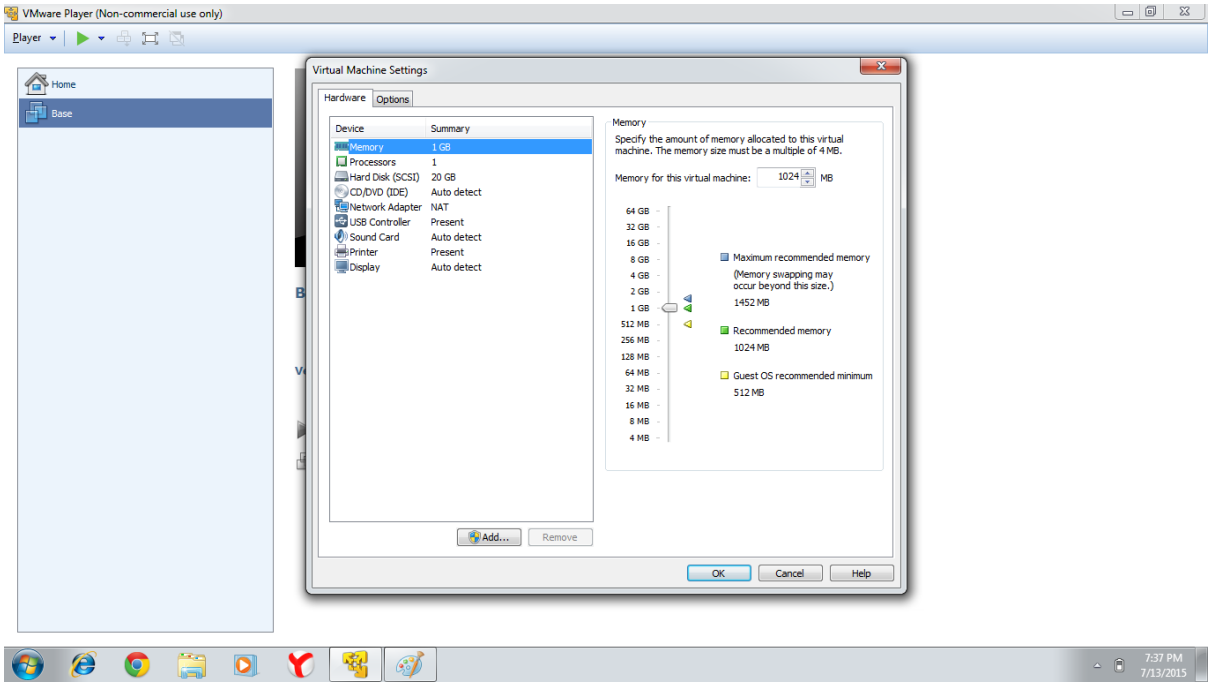
On the last screen, just click finish



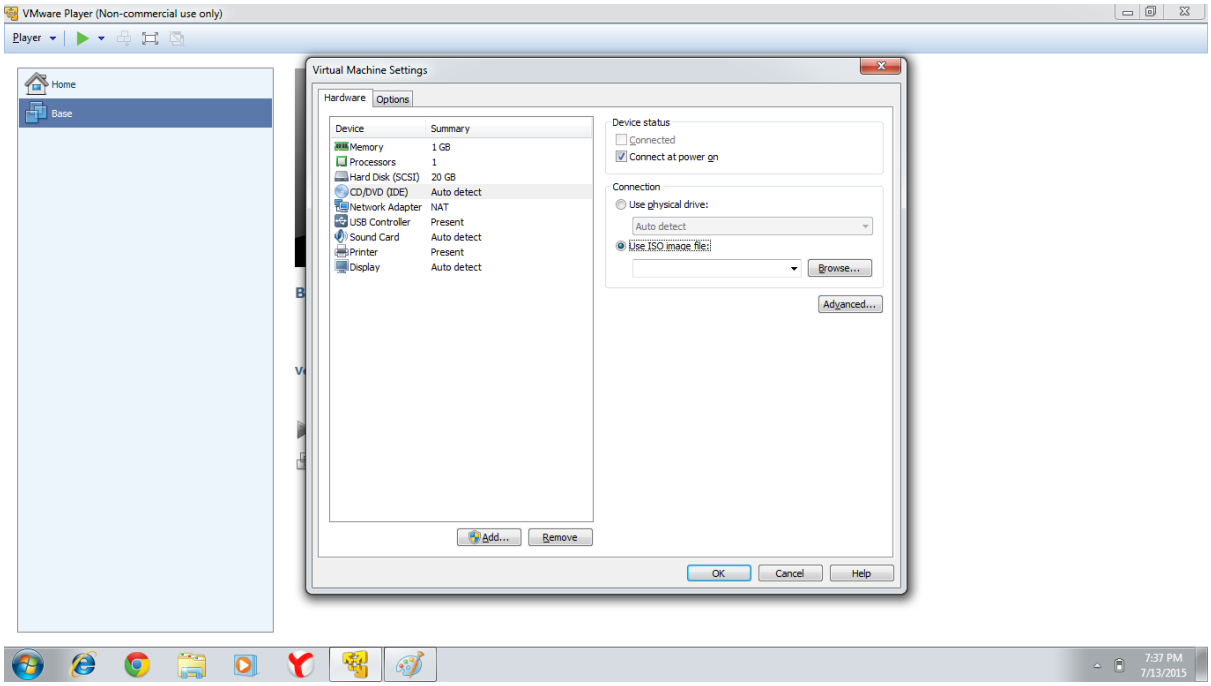
If you did well, you will have the Base virtual machine on the start-up page, as shown below



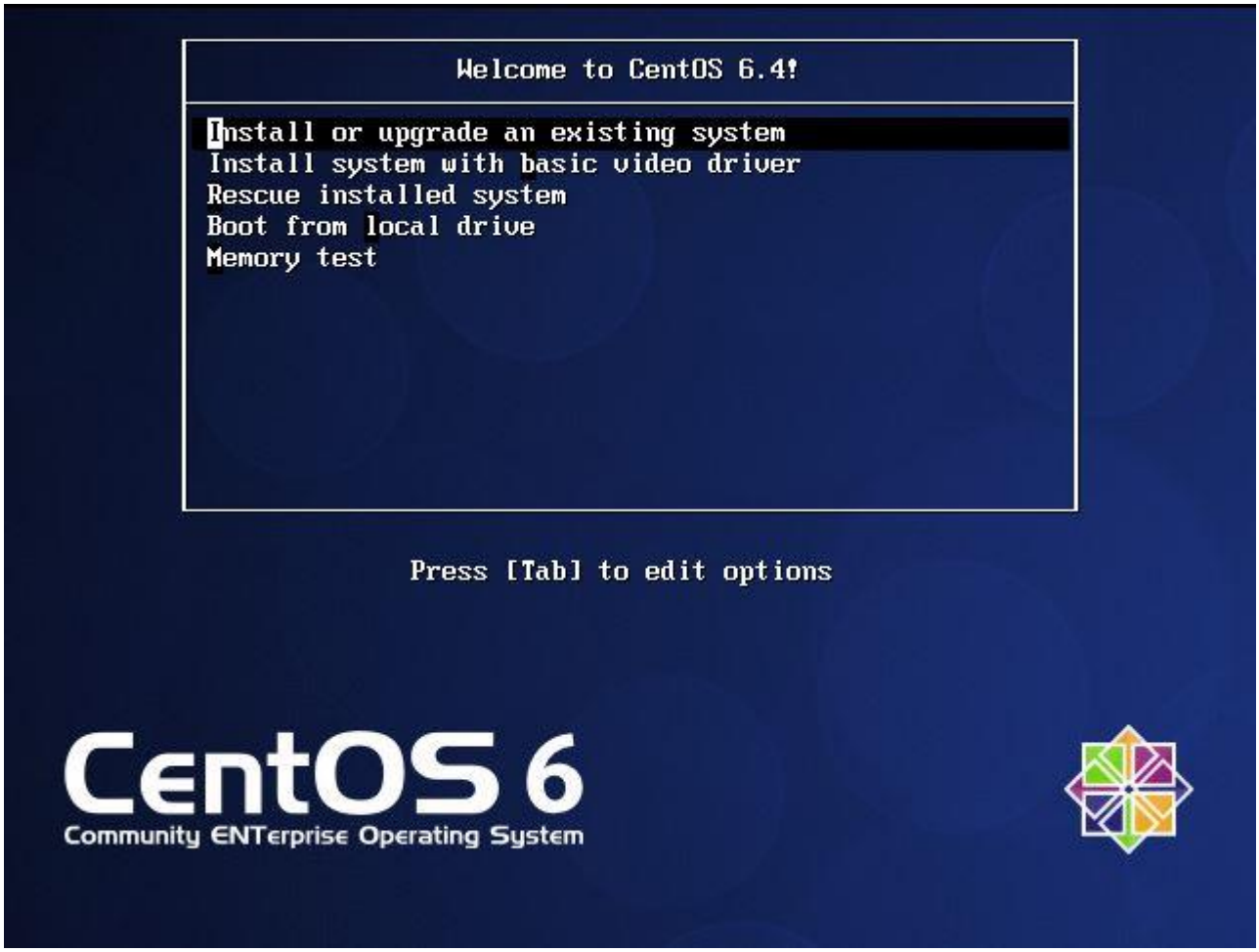
Now, click on edit virtual machine settings



Click on CD/DVD and select use ISO image. Browse and give the Cent OS ISO file that we have just downloaded.

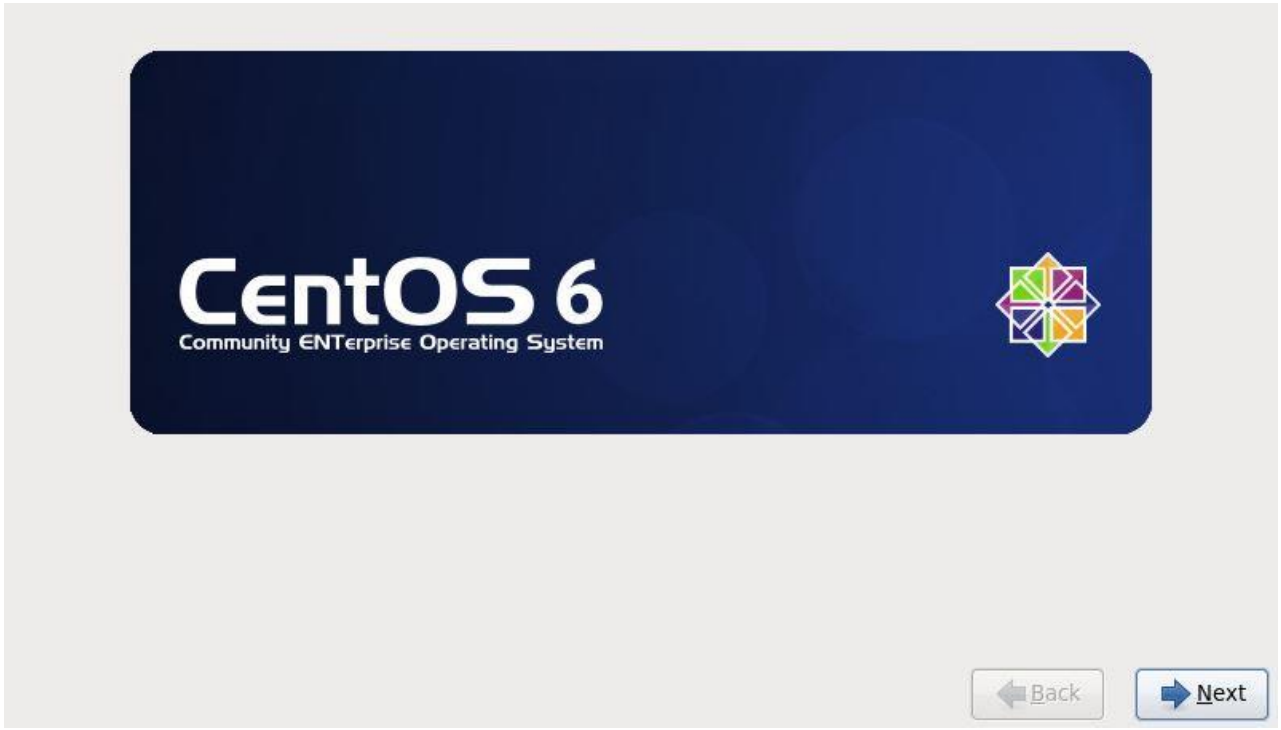


Click OK. Now we are ready to install Cent OS. Click on Play this virtual machine. The VM will boot from the ISO. The following screen will be displayed.

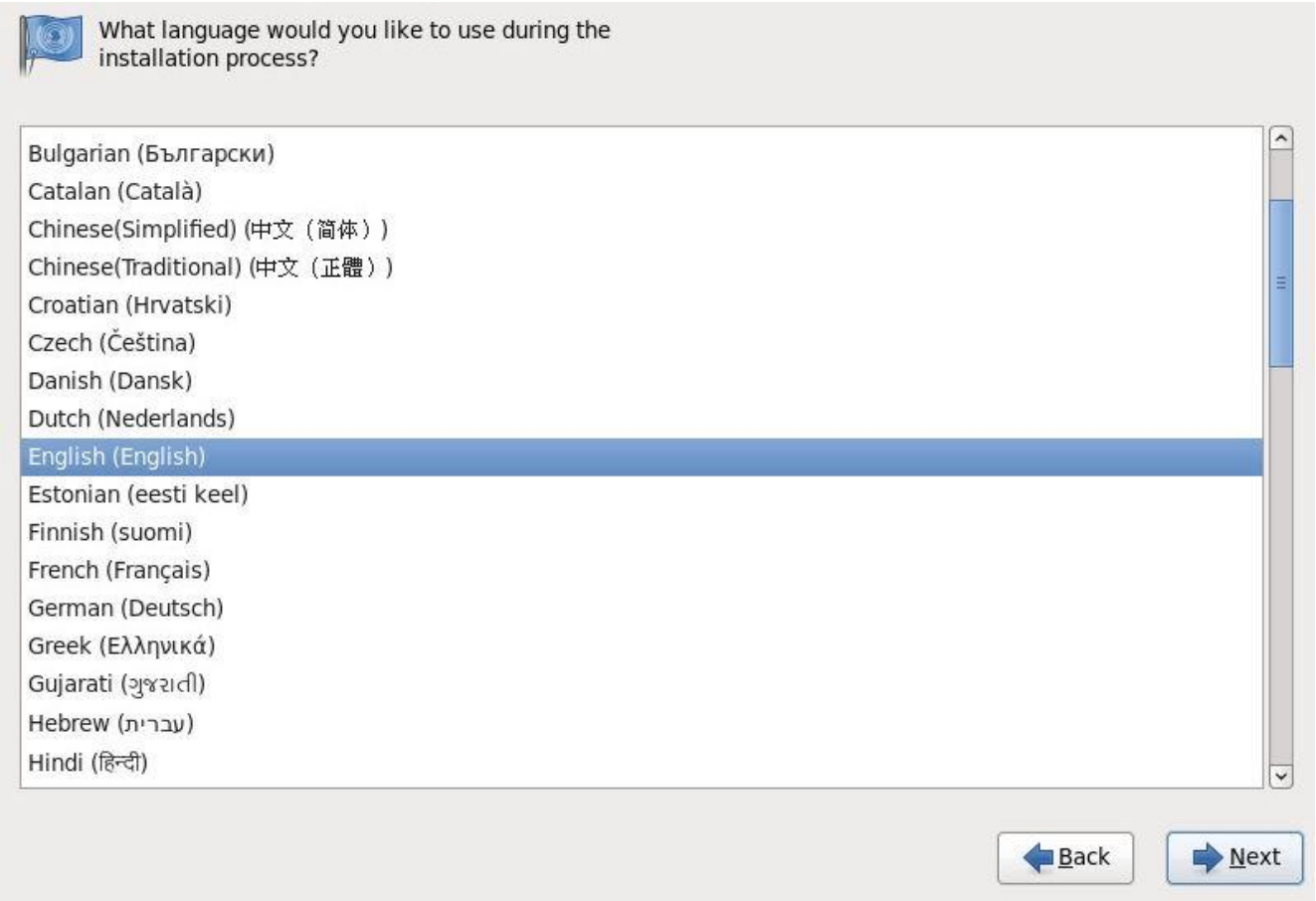


2. Choose **Skip** to cancel the installation media check. But if you choose ok, this will check your installation media for any sort of missing installation files of the operating system.

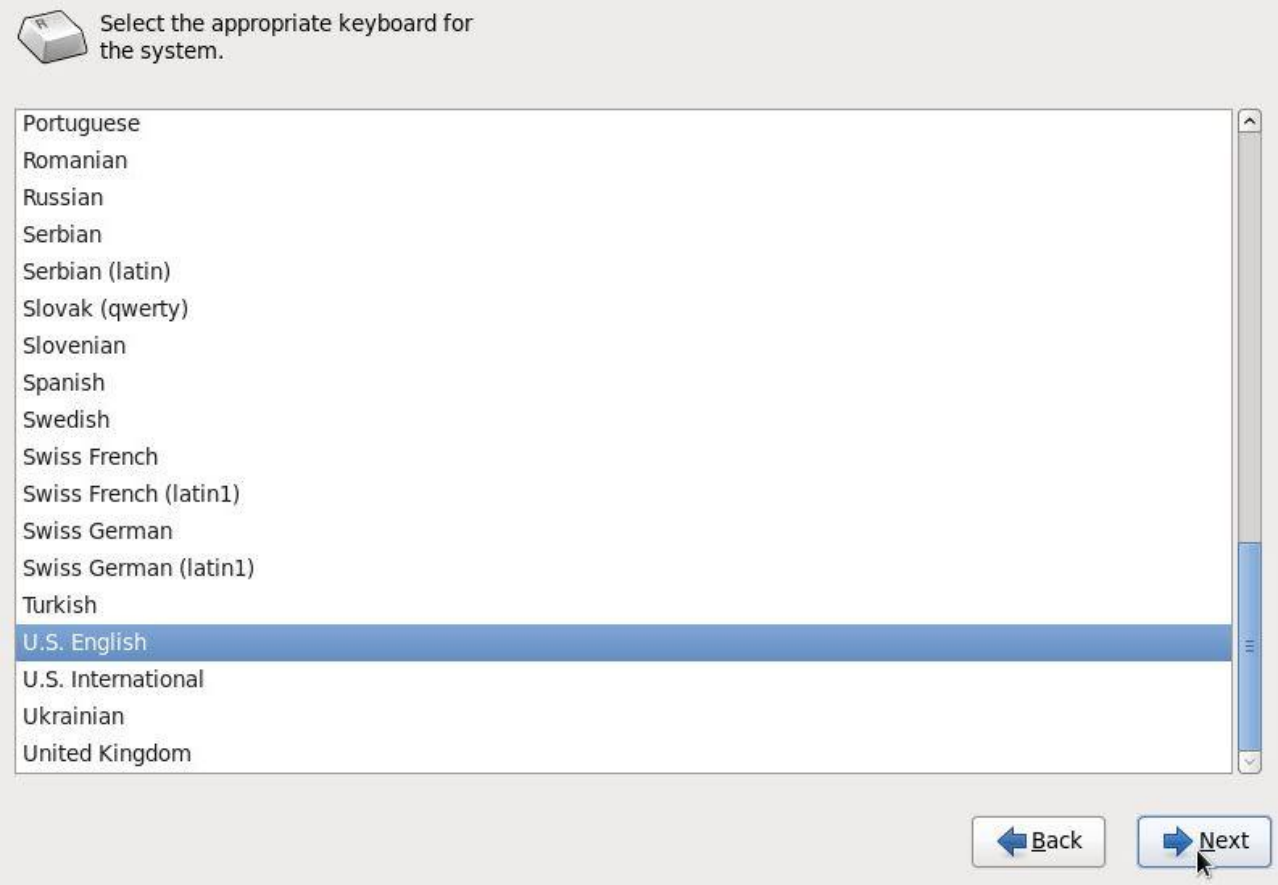
3. Now you can see the installation welcome screen. Here click **next** button.



4. Now choose the language you prefer to install and click **next** button.



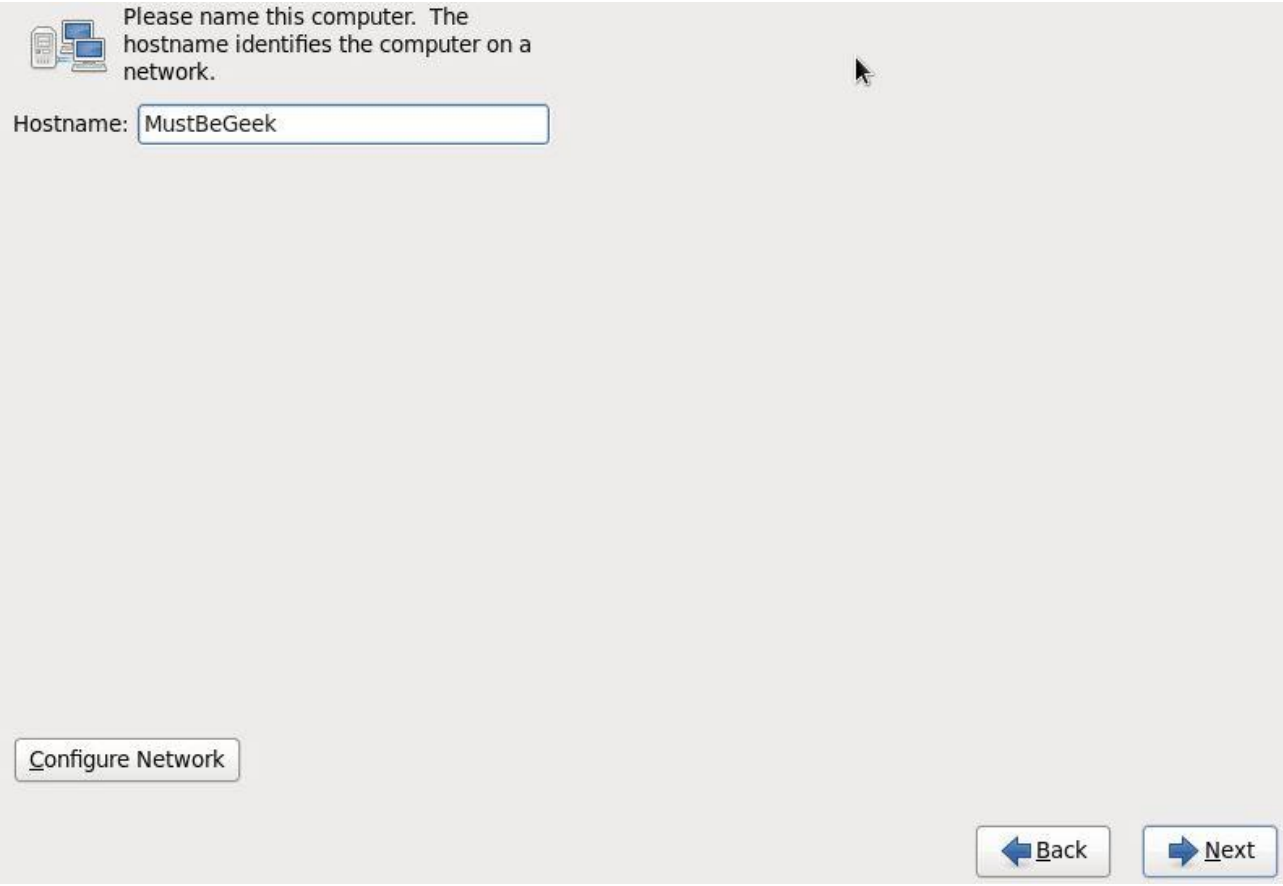
5. Choose the appropriate keyboard layout from the option and click **next** button.



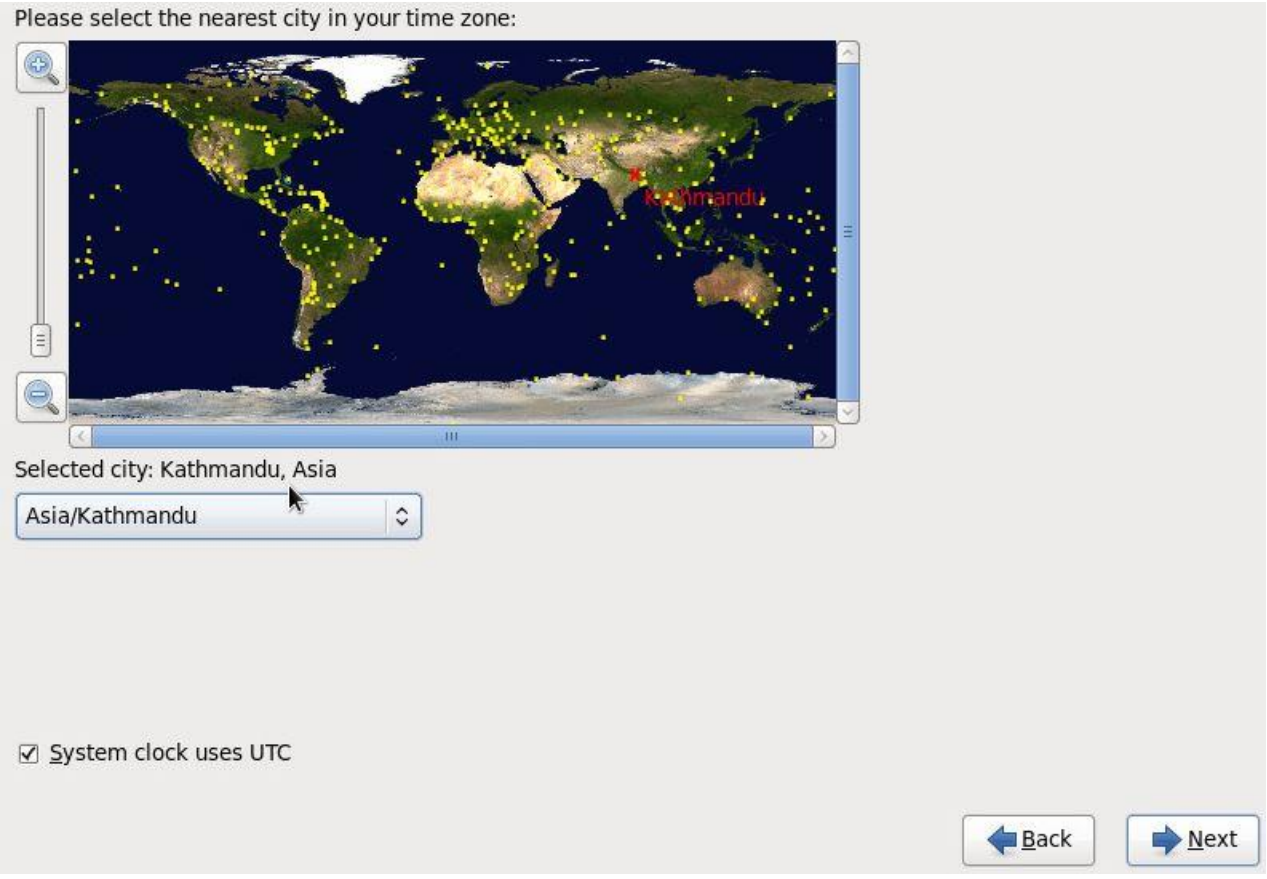
6. Here choose **Basic Storage Device** and click **next** button.

7. Click Yes, discard any data to continue option in storage device warning.

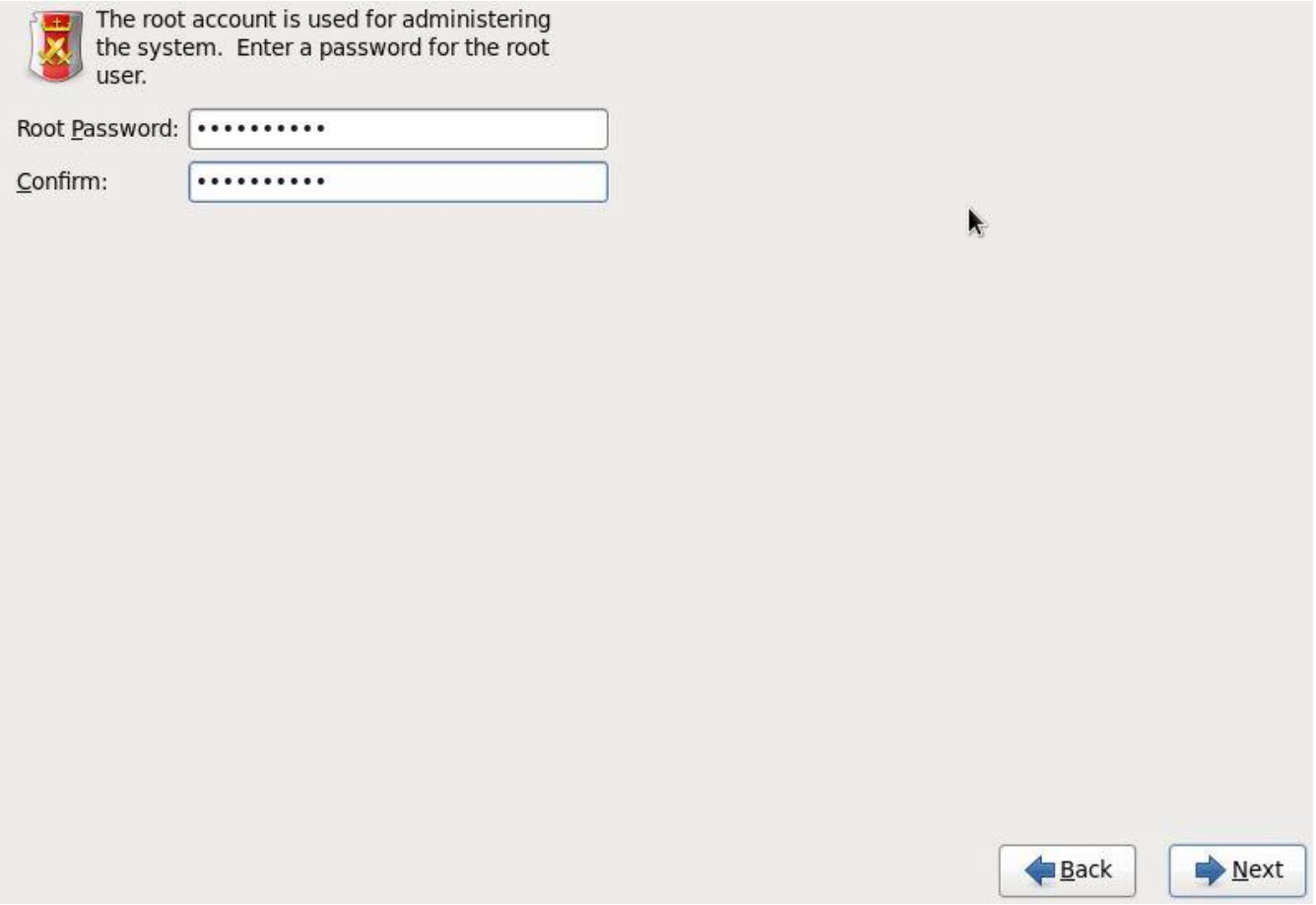
8. Type unique host name for this system and click Next button.



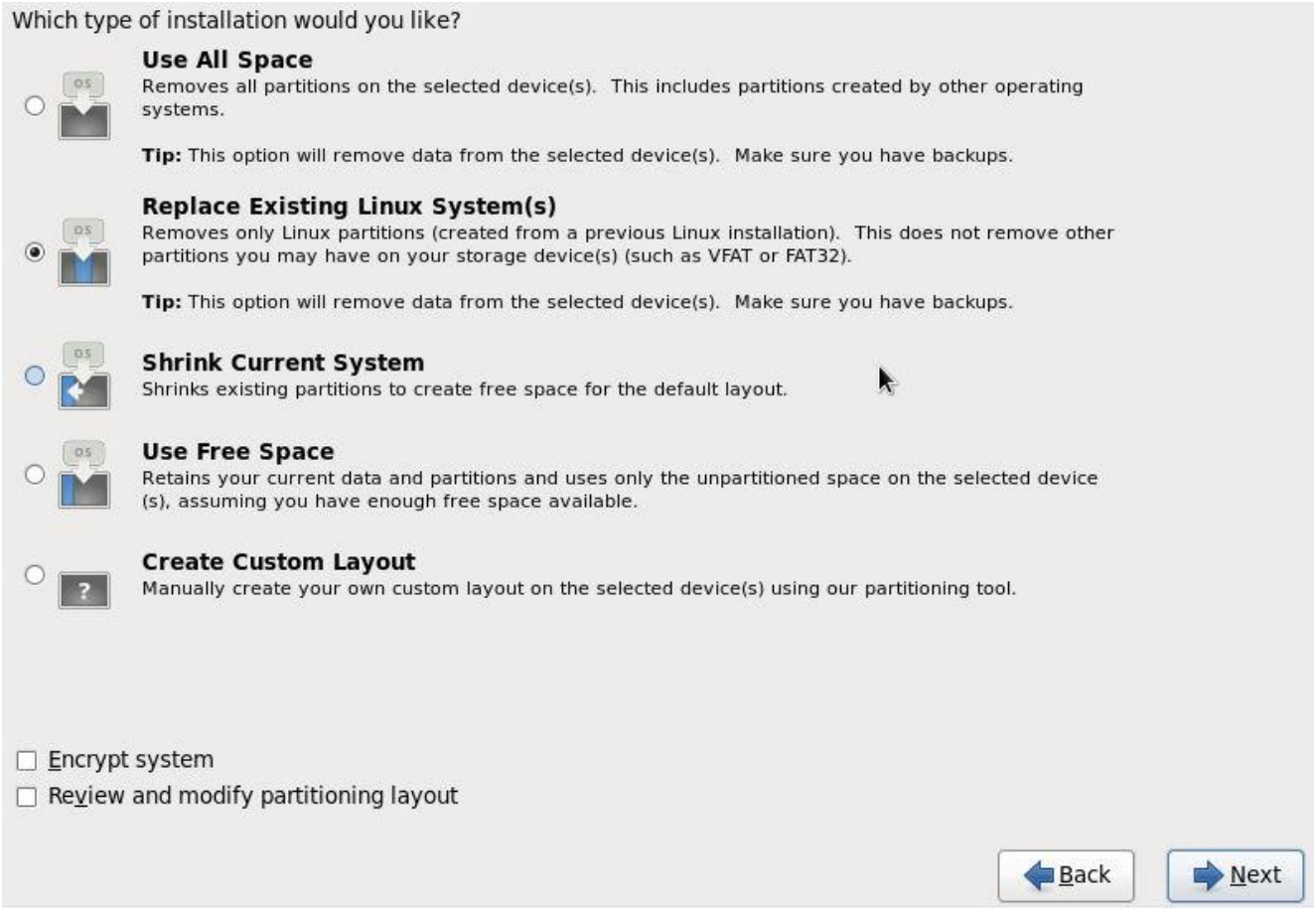
9. Select time/zone and click **next** button.



10. Enter strong root password and click **next** button.

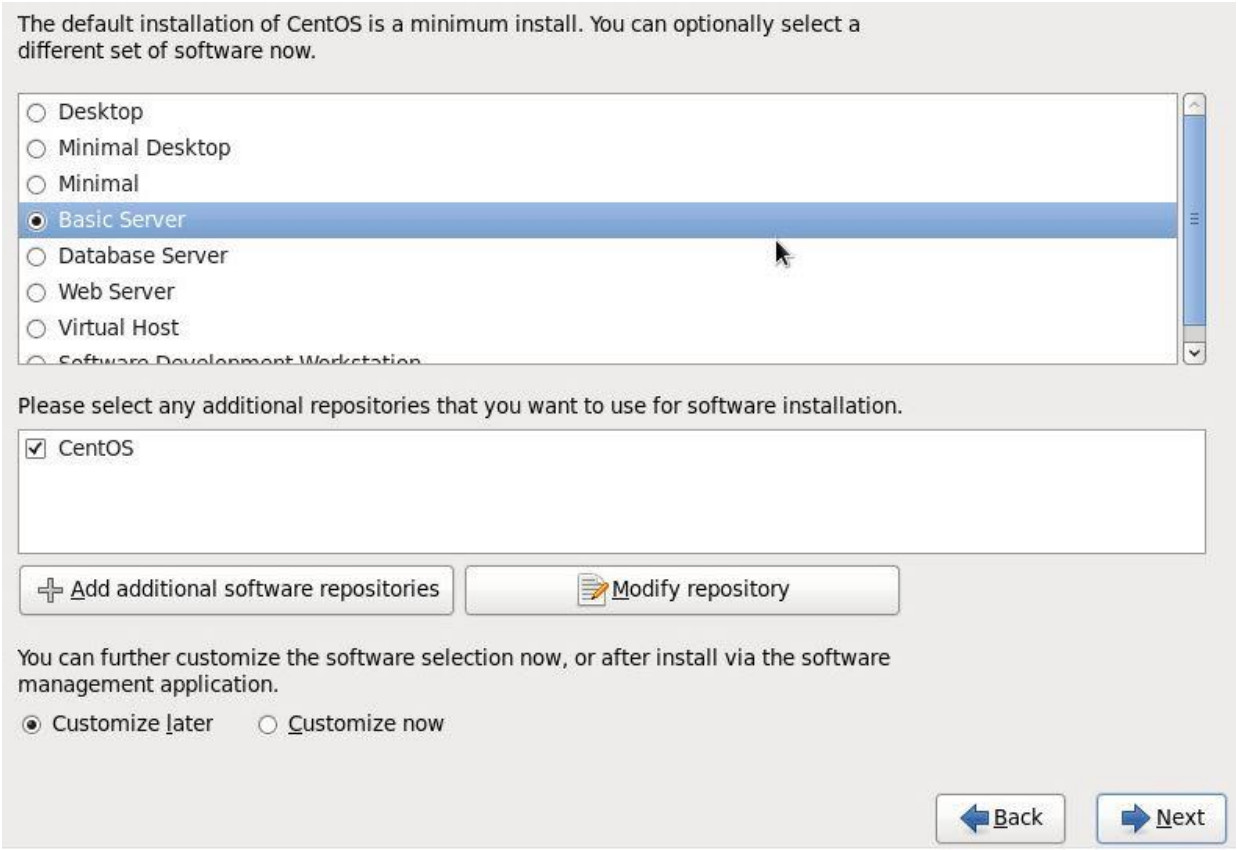


11. Choose the type of installation. Here I will choose **replace existing Linux system(s)**. You can choose use all space.



12. Click write changes to disk.

13. Choose basic server and click next.



14. The installation will start now.

15. Click restart once finished.

Once done, it will also ask you to create a local user account. Create a local user named Hadoop. We are going to have lot of fun! That's it so far.