

SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4<sup>th</sup> Year 2<sup>nd</sup> Semester 2016



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Practical Session: WD Wednesday

Practical Number: **Bare metal Virtual machine Installation**

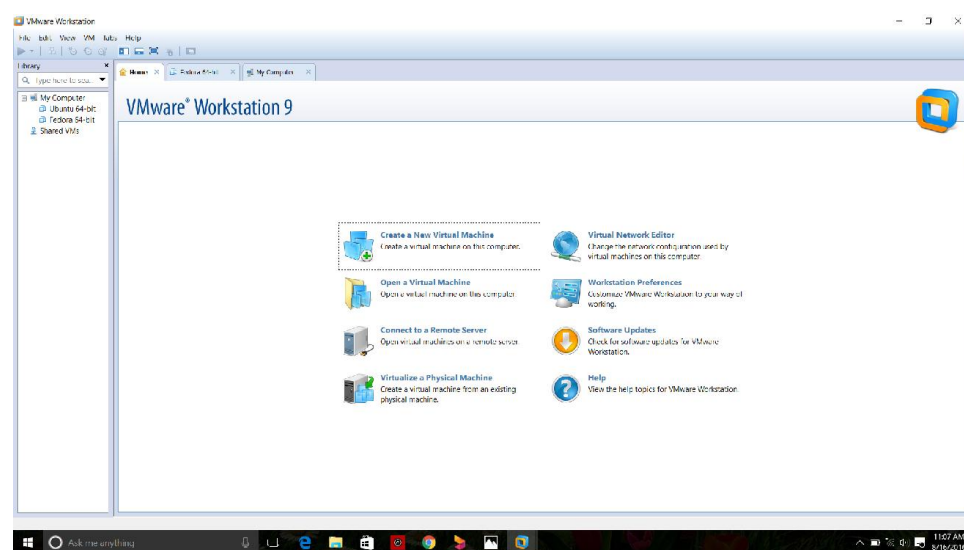
Date of Submission: 16<sup>th</sup> August 2016

# Bare metal Virtual machine Installation

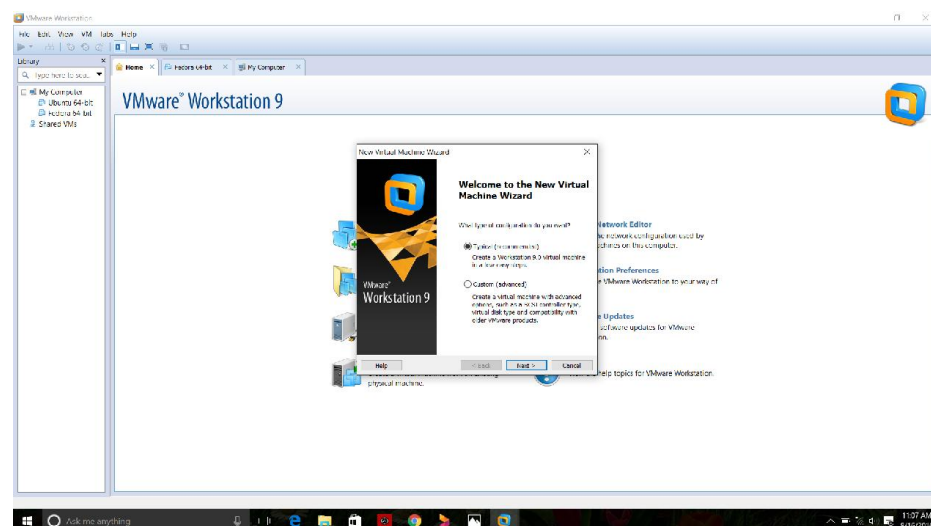
## bare metal environment

A bare metal environment is a computer system or network in which a virtual machine is installed directly on hardware rather than within the host operating system (OS). The term "bare metal" refers to a hard disk, the usual medium on which a computer's OS is installed. The term virtualization refers to the creation of a virtual (rather than actual) version of something, such as an OS, a server or a network resource. A virtual machine is a multi user shared-resource OS that gives each user the impression of having sole control of all computer or network resources.

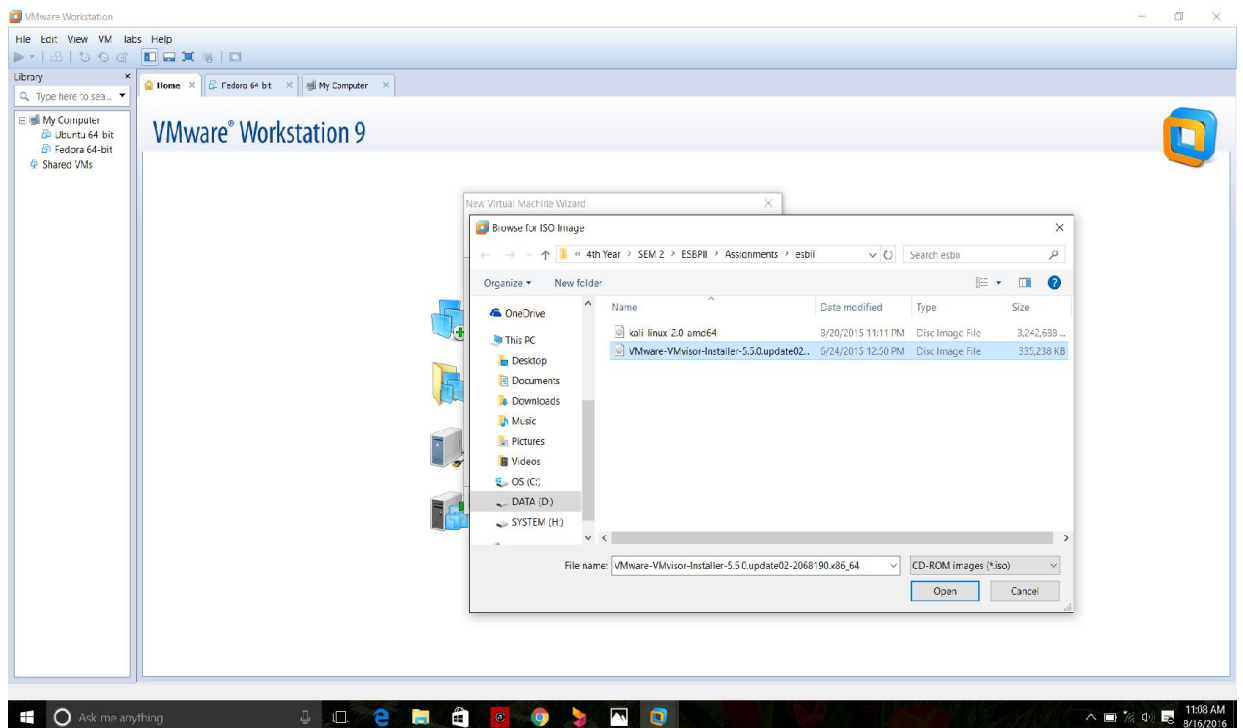
- First load the VM Ware workstation



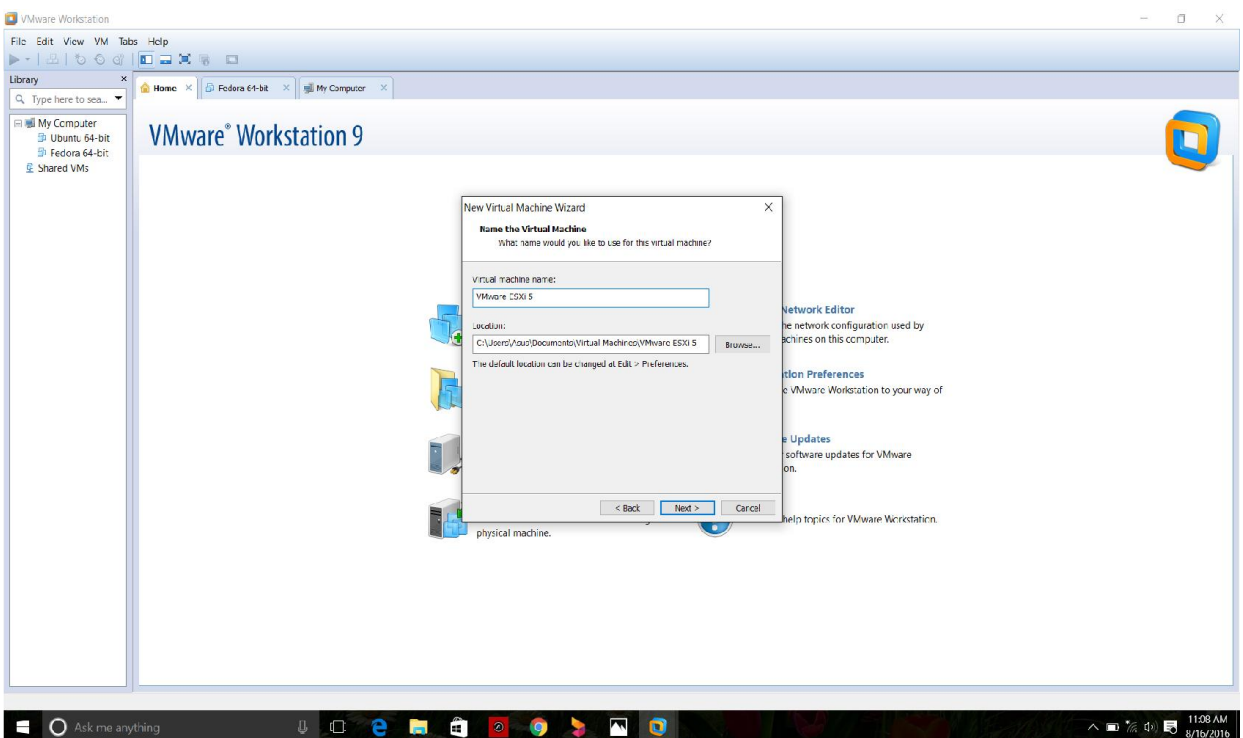
- Creating Virtual Machine using VMware



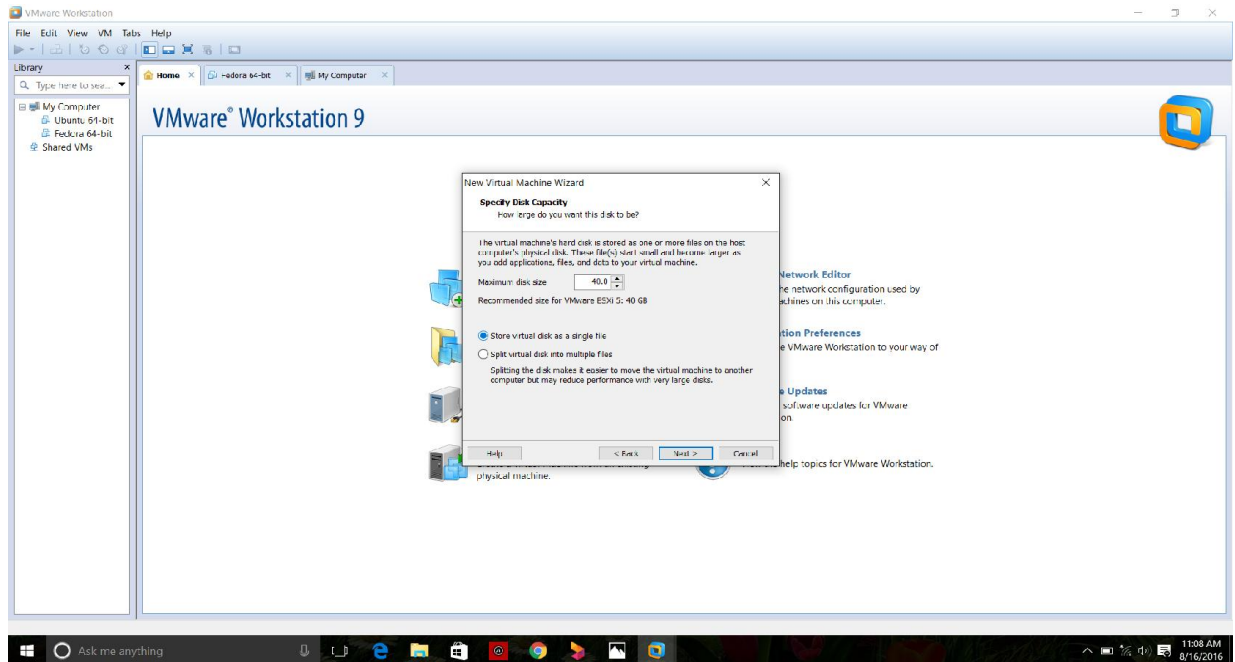
- Selected ISO Image for VMware



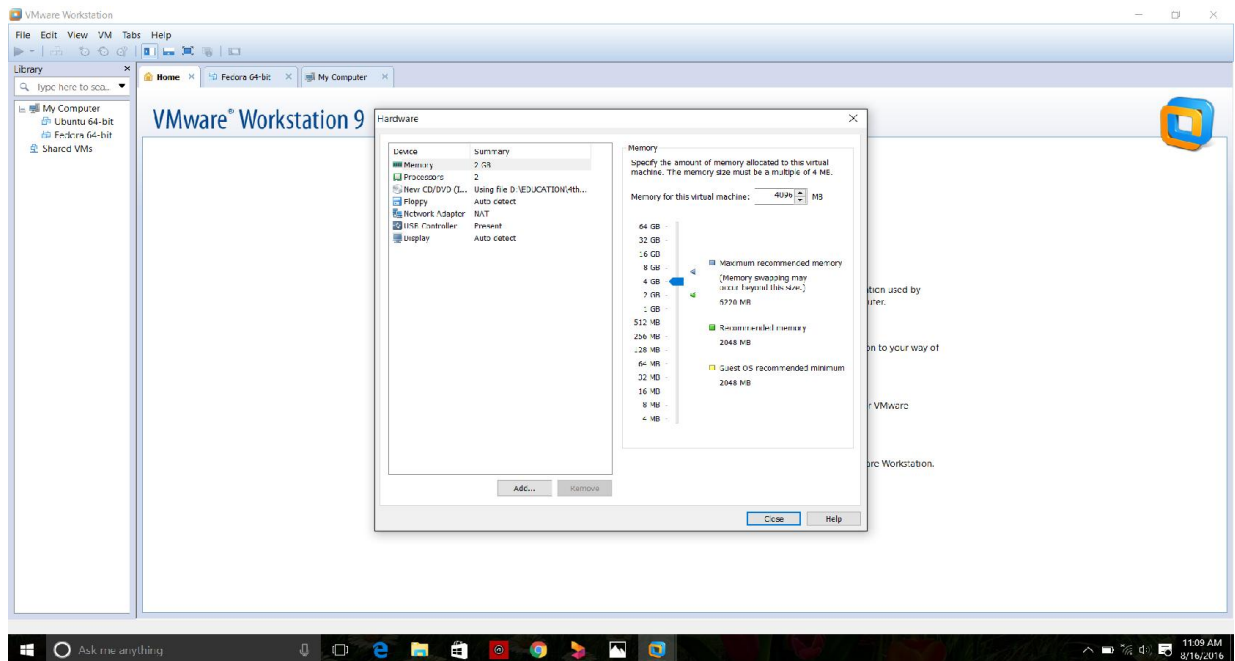
- Gave a name for the virtual machine



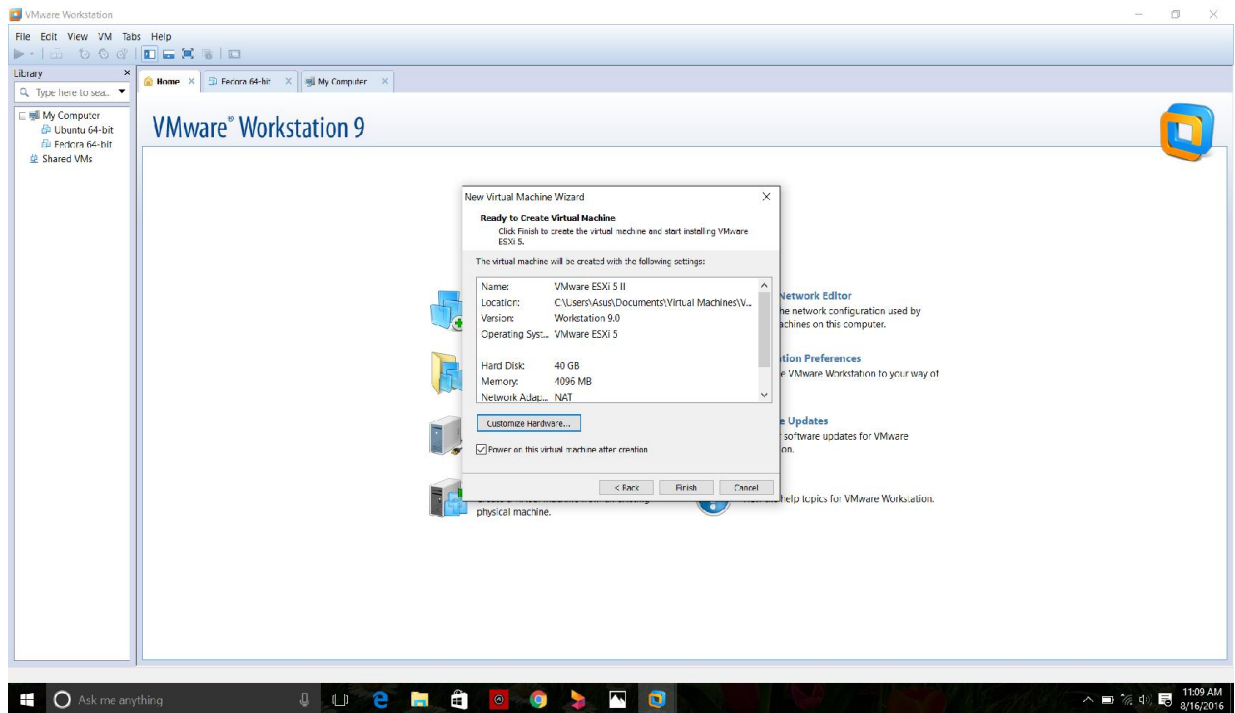
- Specified the disk capacity of the virtual machine. The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These files start small and become larger as you add applications, files and data to your virtual machine.



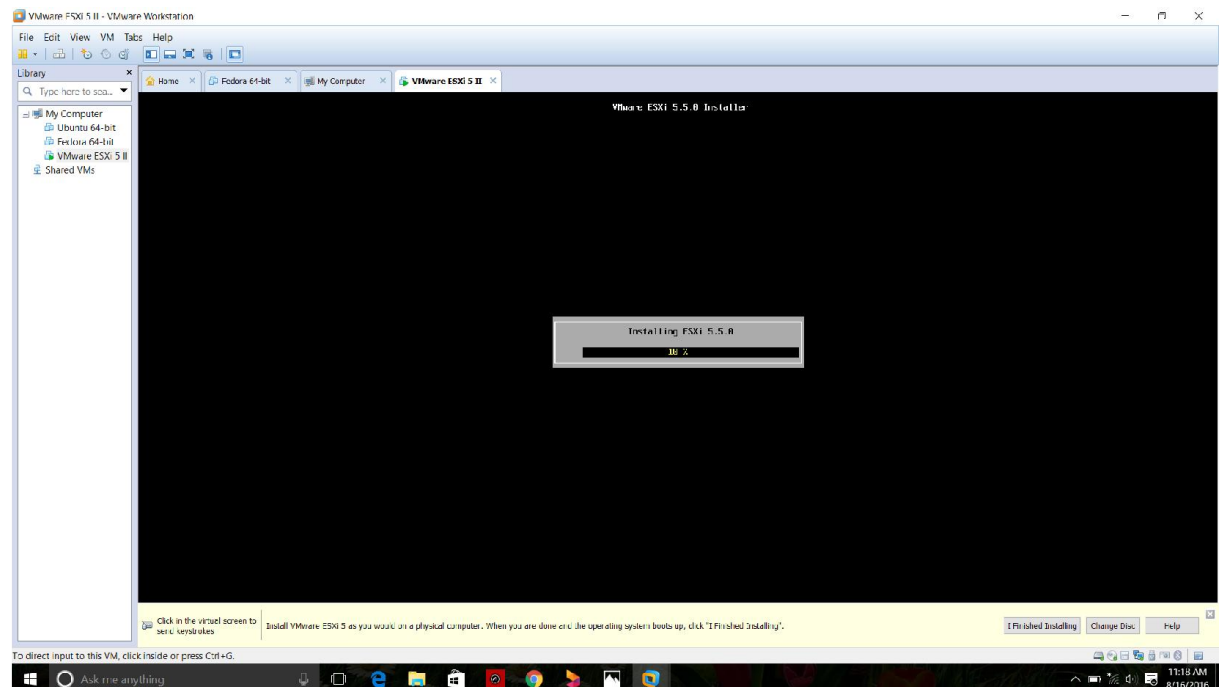
- Specified the amount of memory for the virtual machine. The memory size must be a multiple of 4 MB.



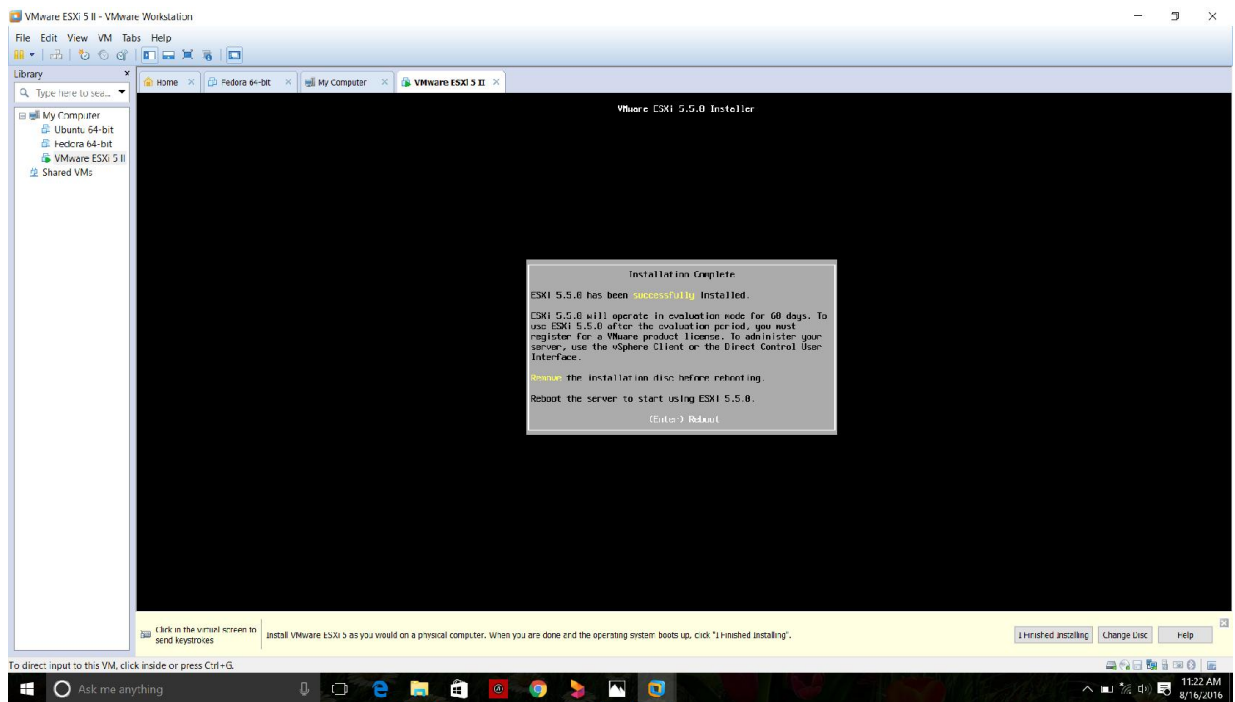
- New virtual machine wizard. Ready to create the virtual machine.



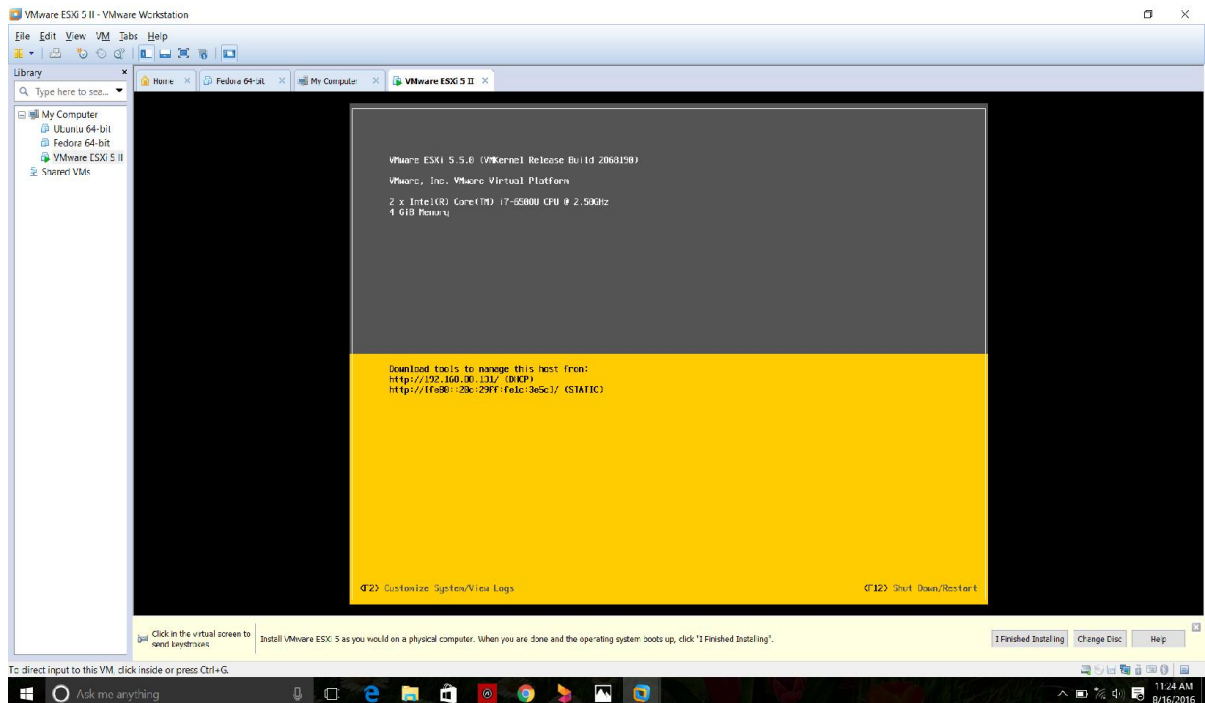
- VM installing is ongoing



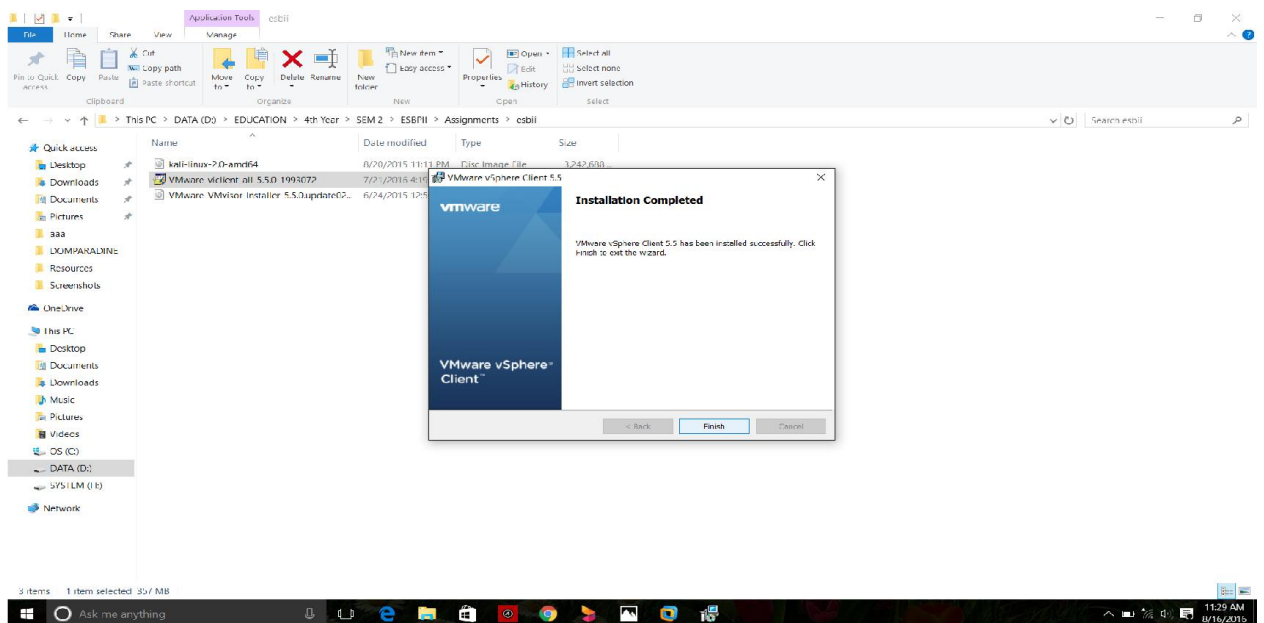
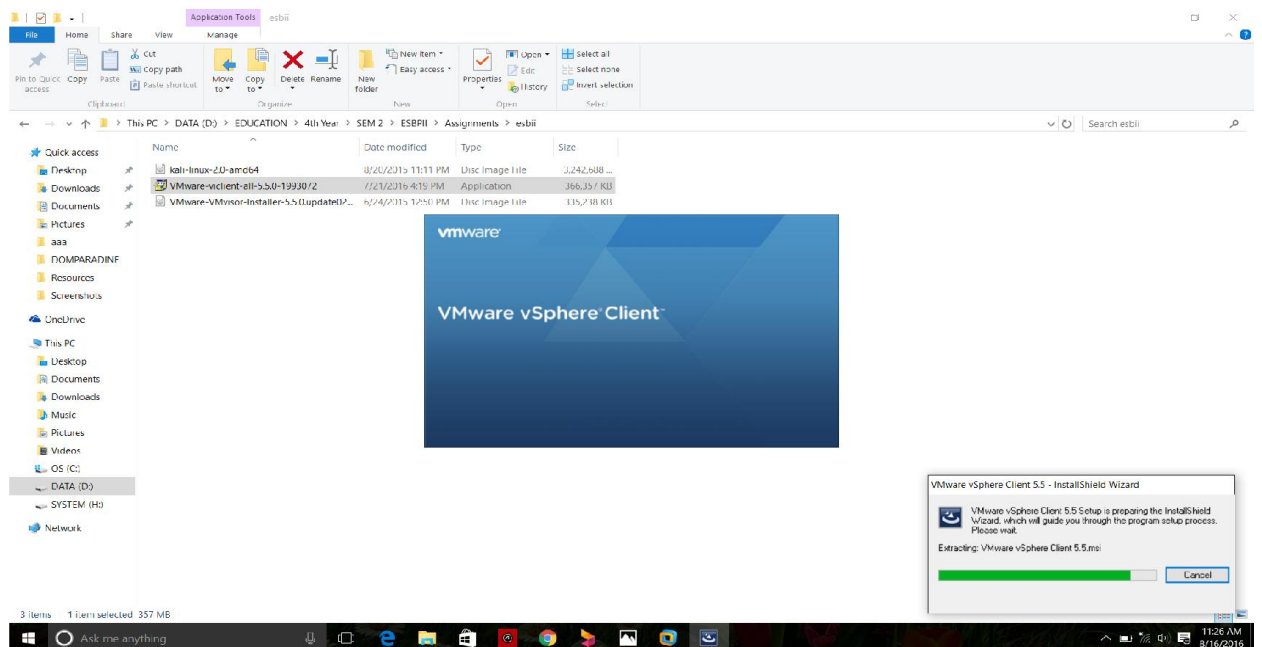
- VMware ESXI 5.5.0 installation was successfully done.



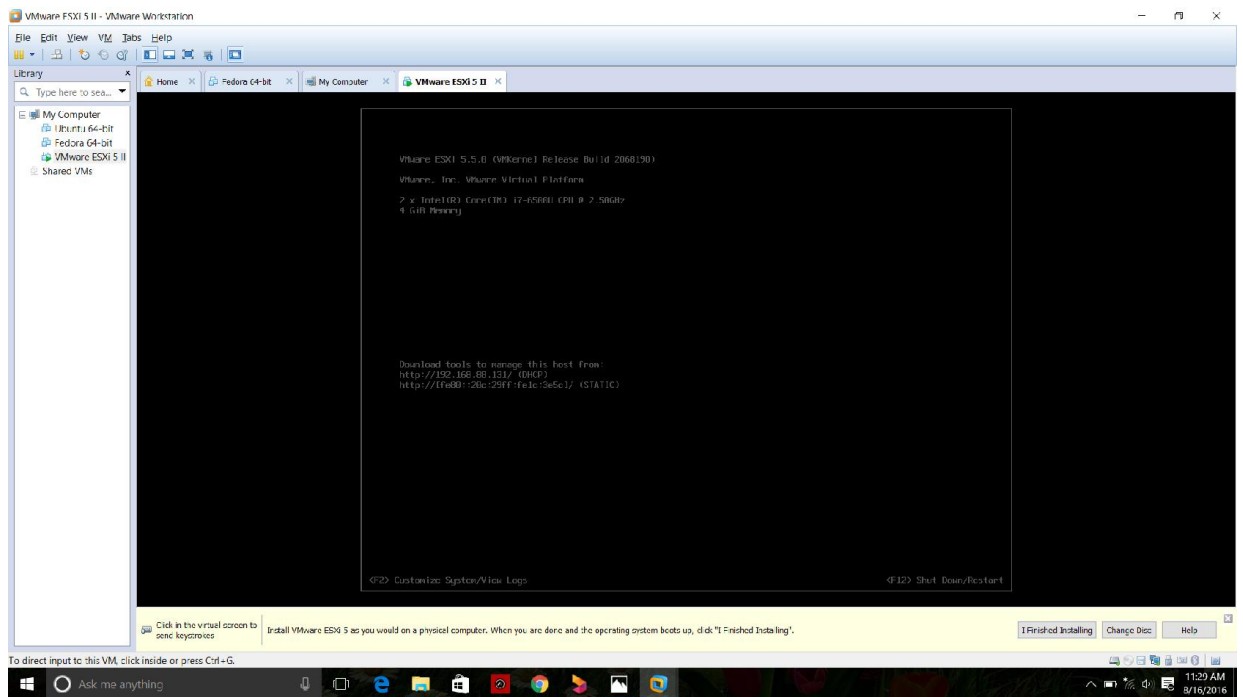
- VMware is getting ready



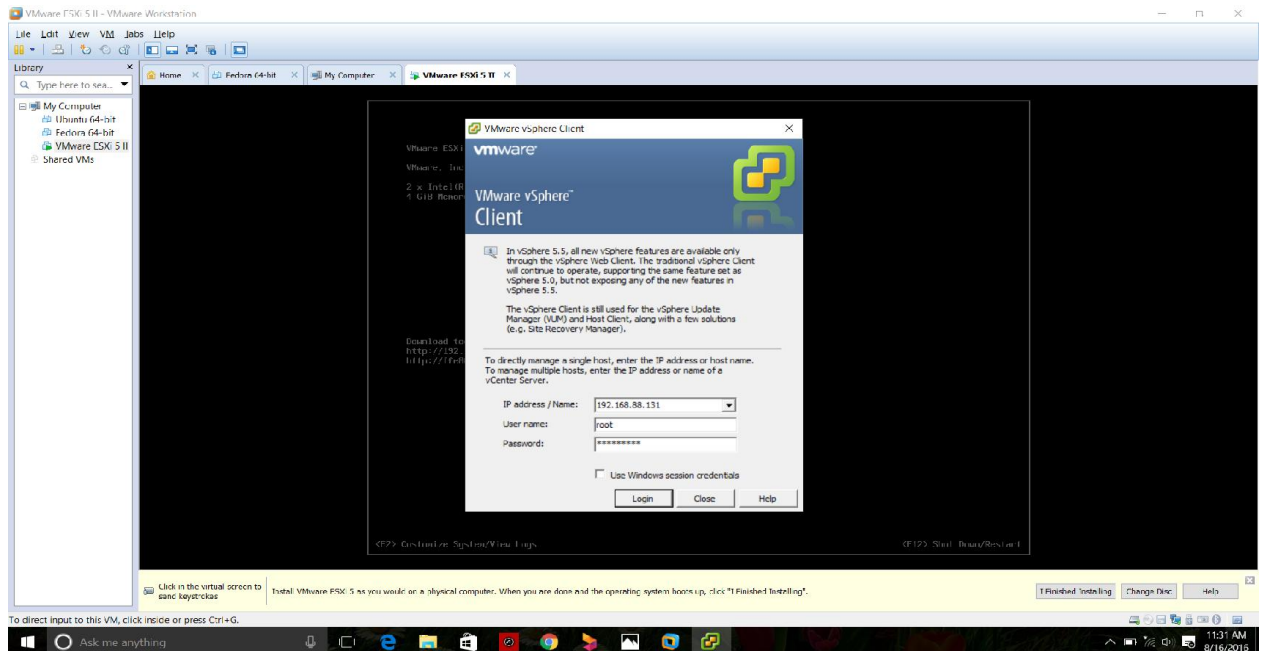
- VMware-viclient-all-5.5.0-1993072 installation. There is an installation process and they provide some warnings when creating the virtual platform. After accepting those it ask to reboot the VMware.



- Successfully installed VMware virtual platform details are displayed here.

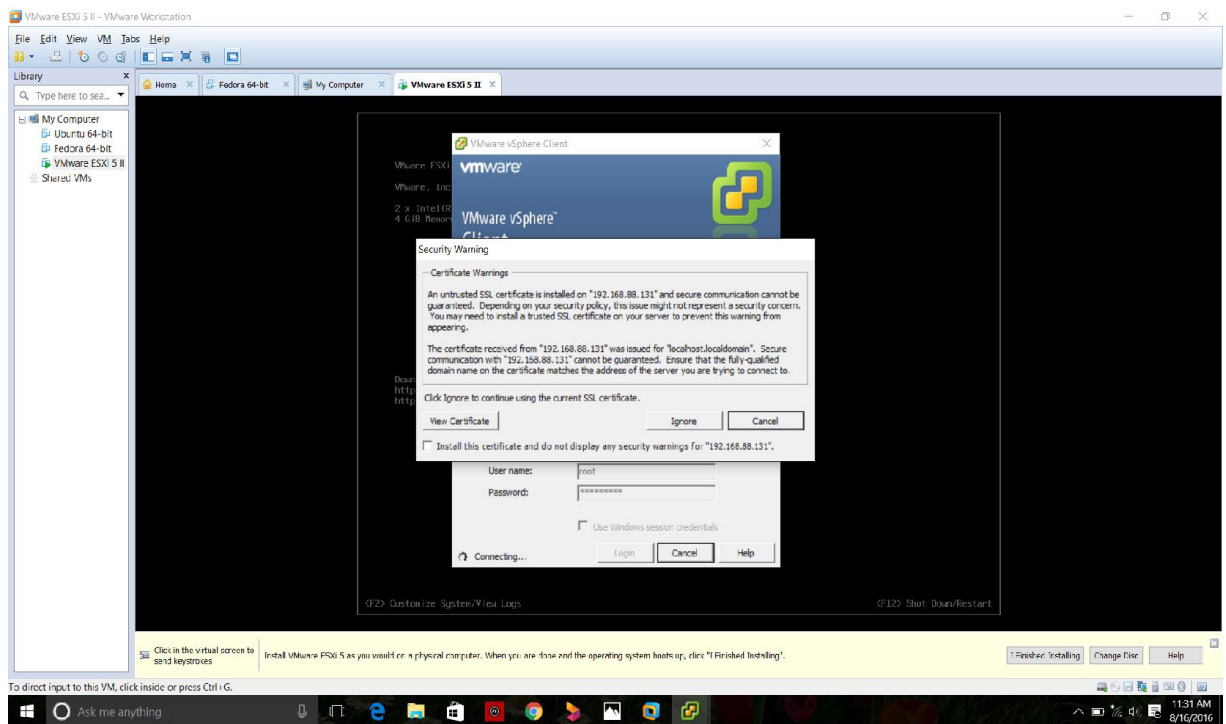


- Connection establishment with VMware Vsphere client.

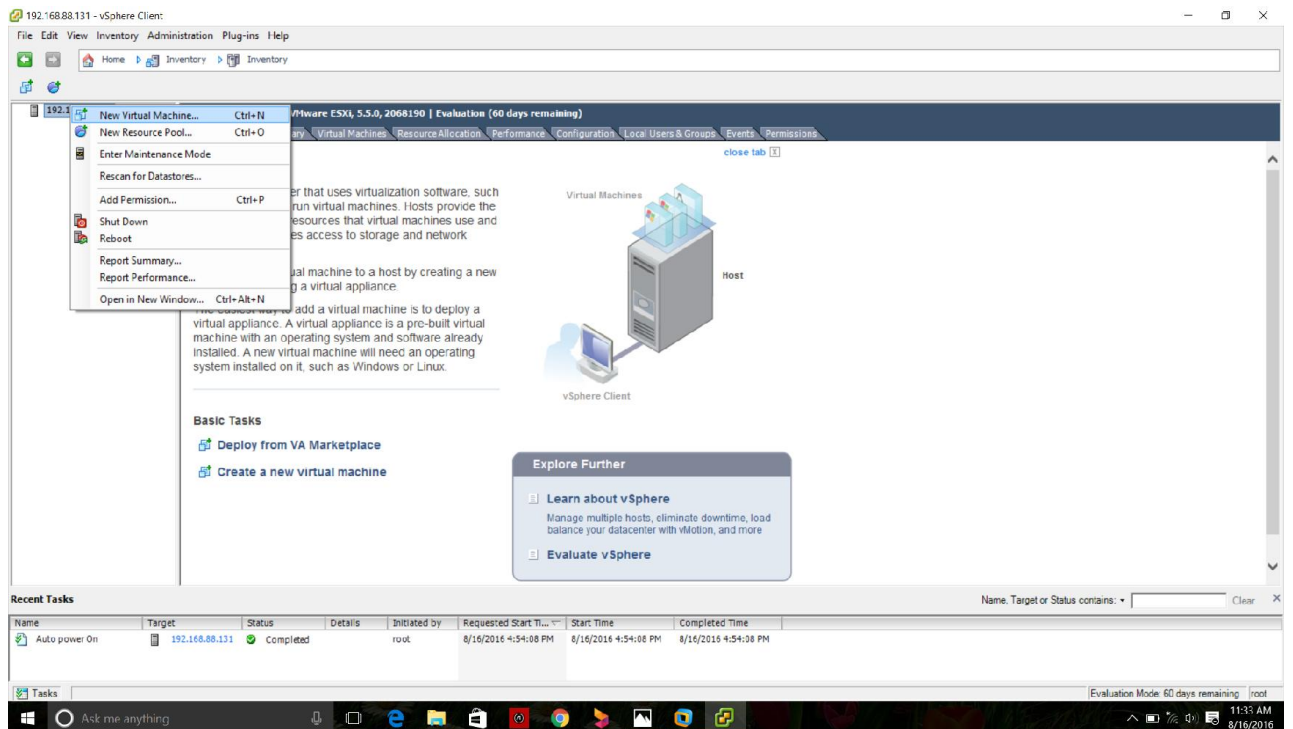




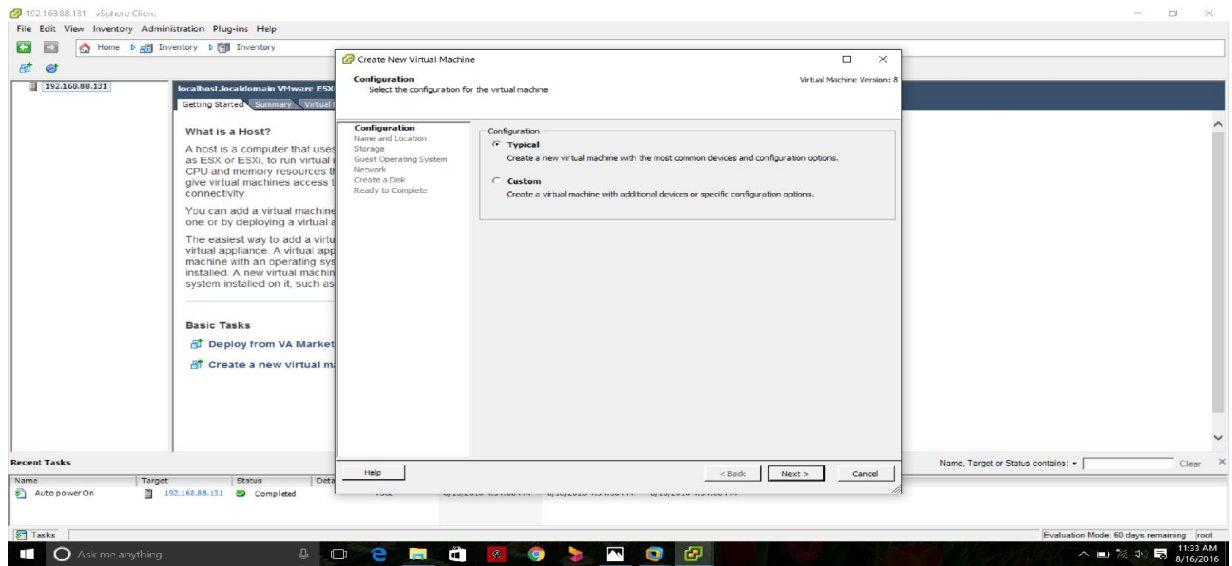
- VSphere client security warnings.



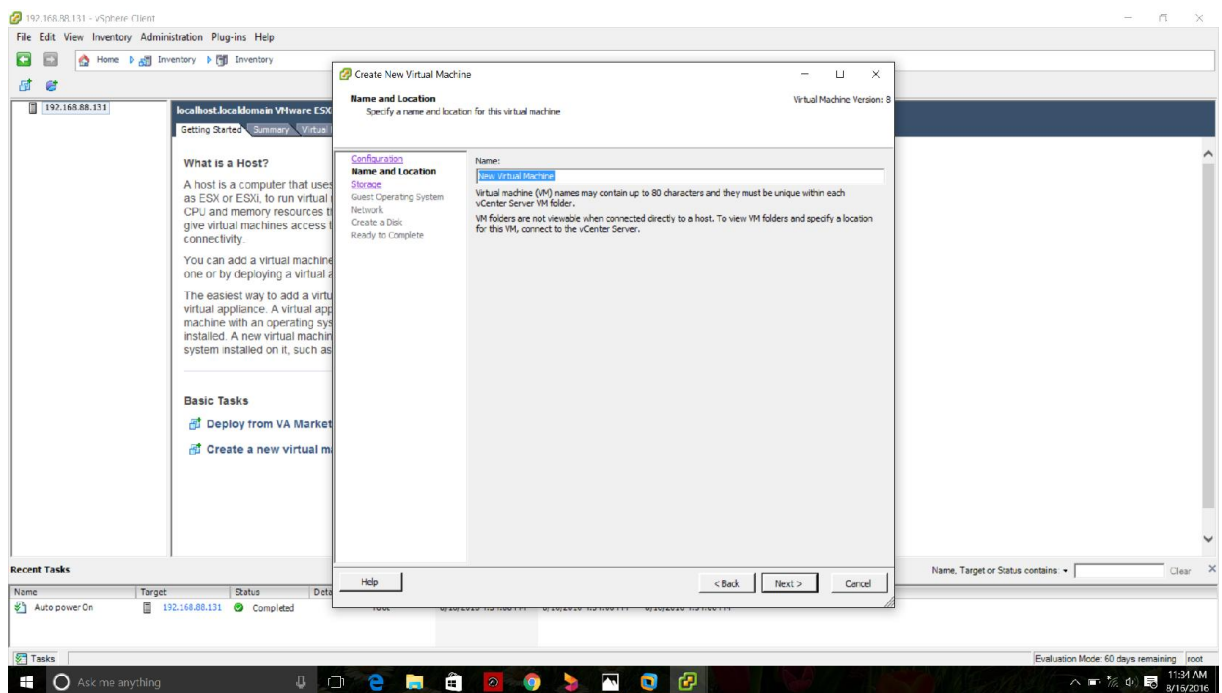
- VSphere client hoe interface. Right clicked on the ip address and choose the virtual machine.



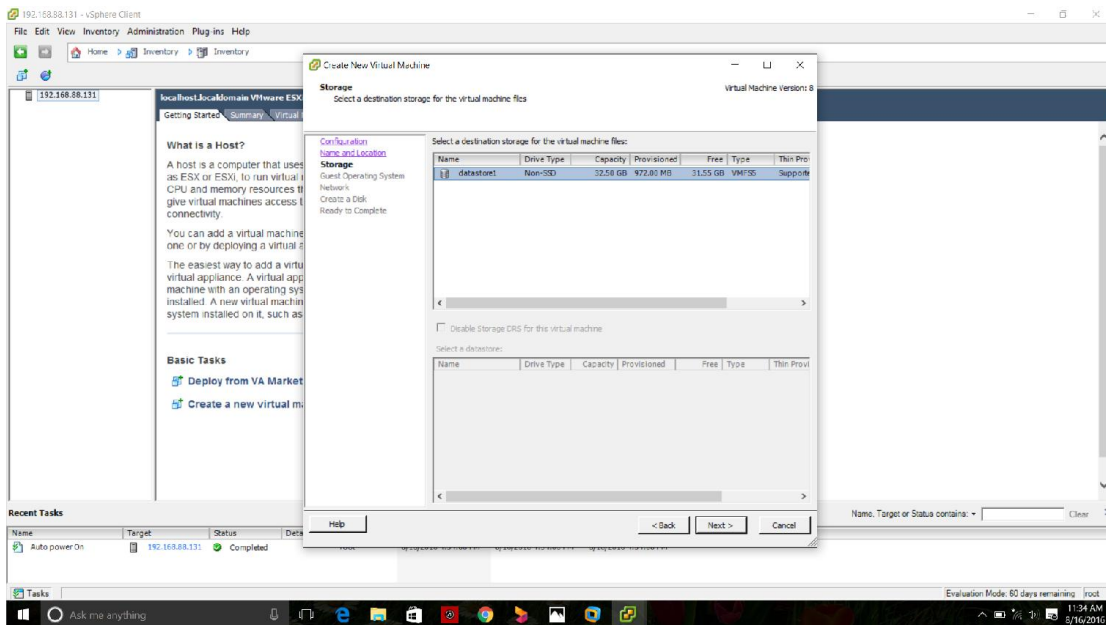
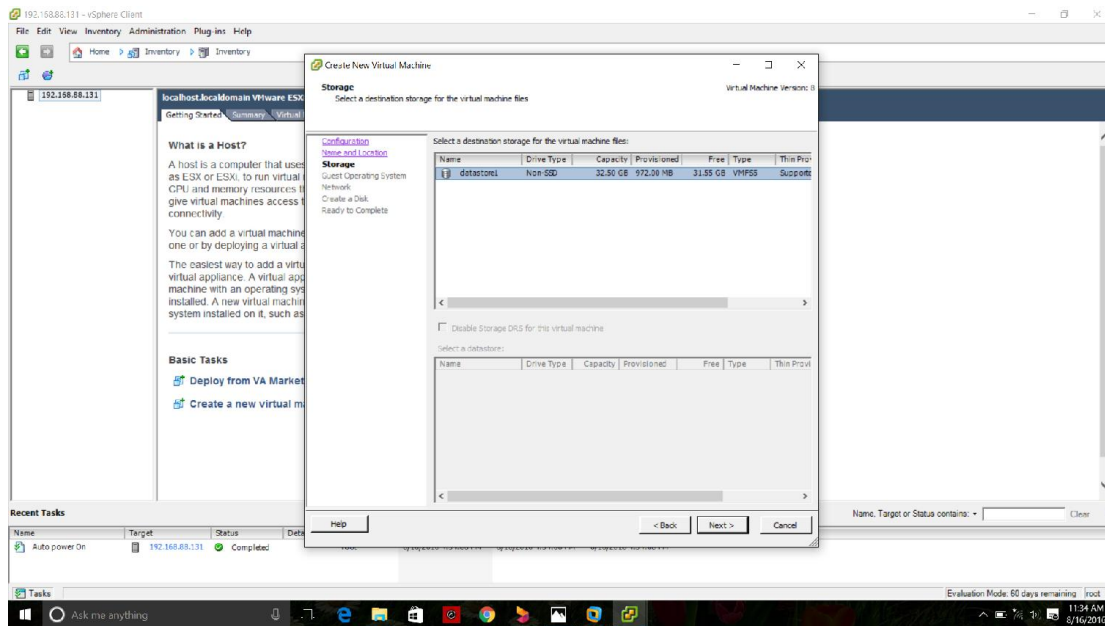
- Set the configuration as a typical virtual machine which has the most common devices and configuration options.



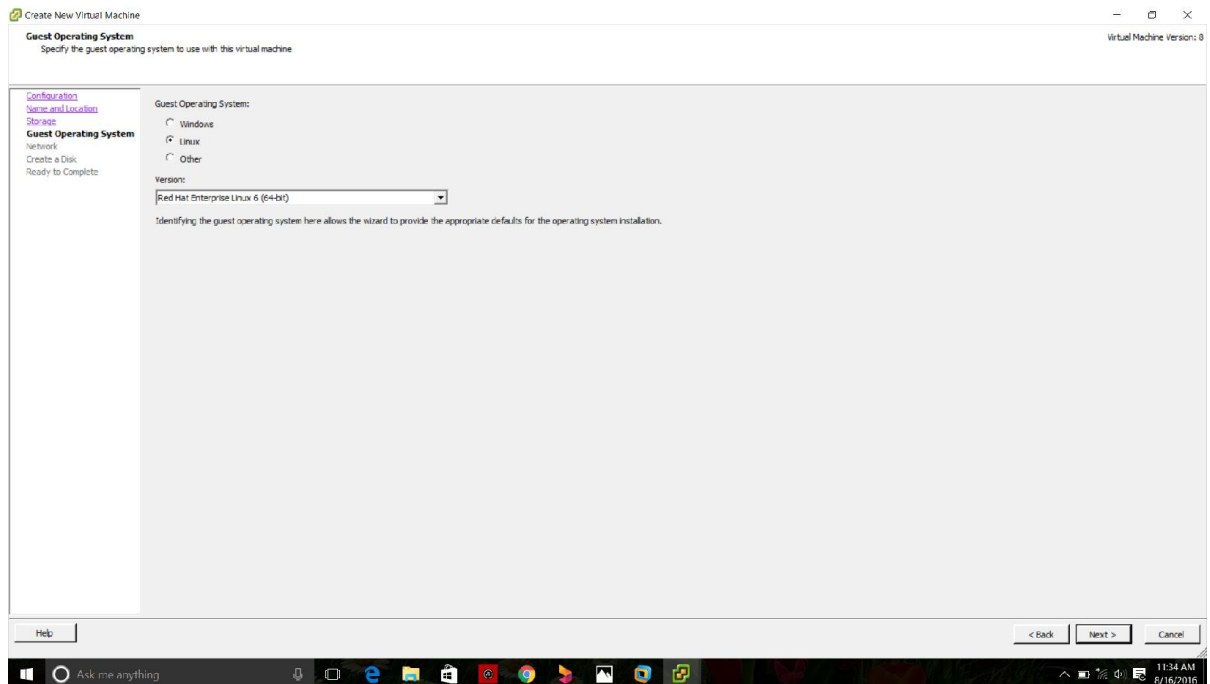
- Specified a name and a location for the virtual machine.



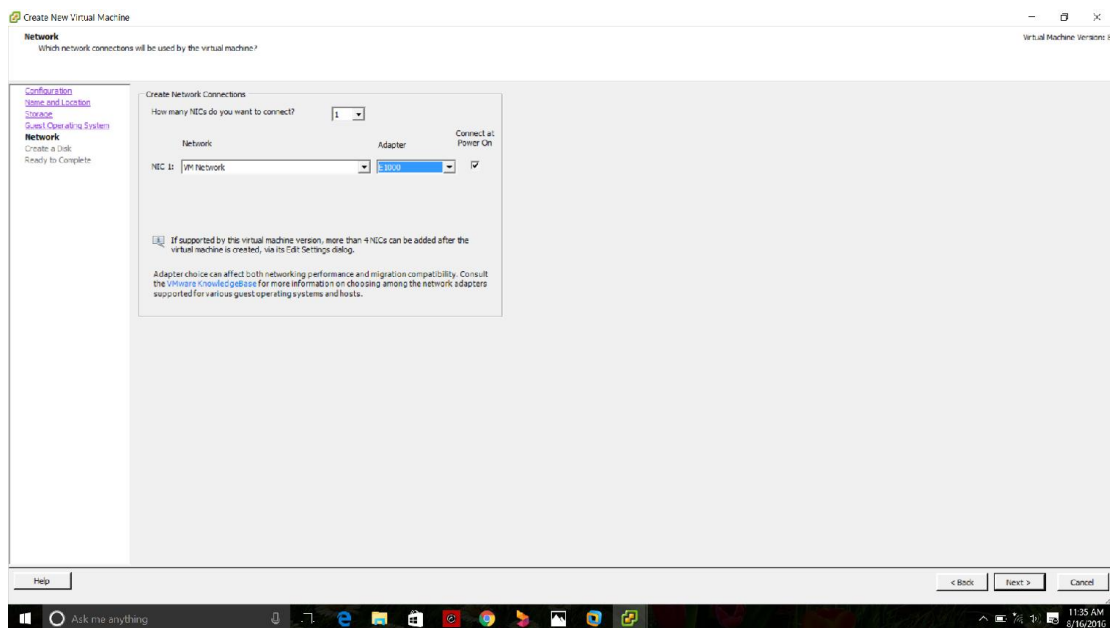
- Selected a destination storage for virtual machine files.



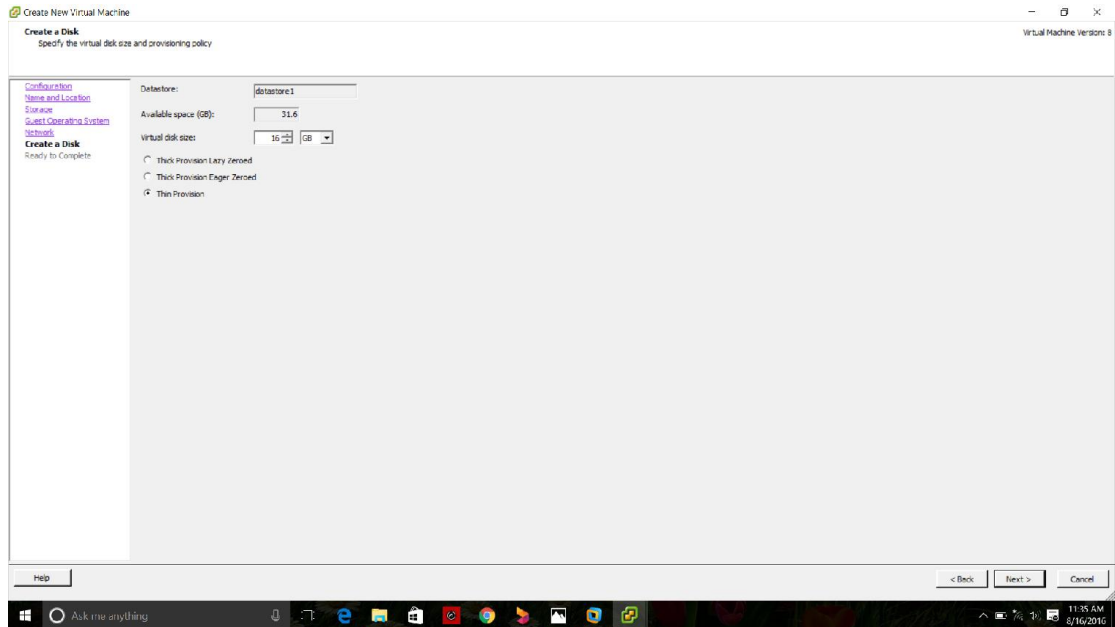
- Specified the guest operating system to use with the virtual machine. Identifying the guest operating system allows the wizard to provide the appropriate defaults for the virtual machine installation.



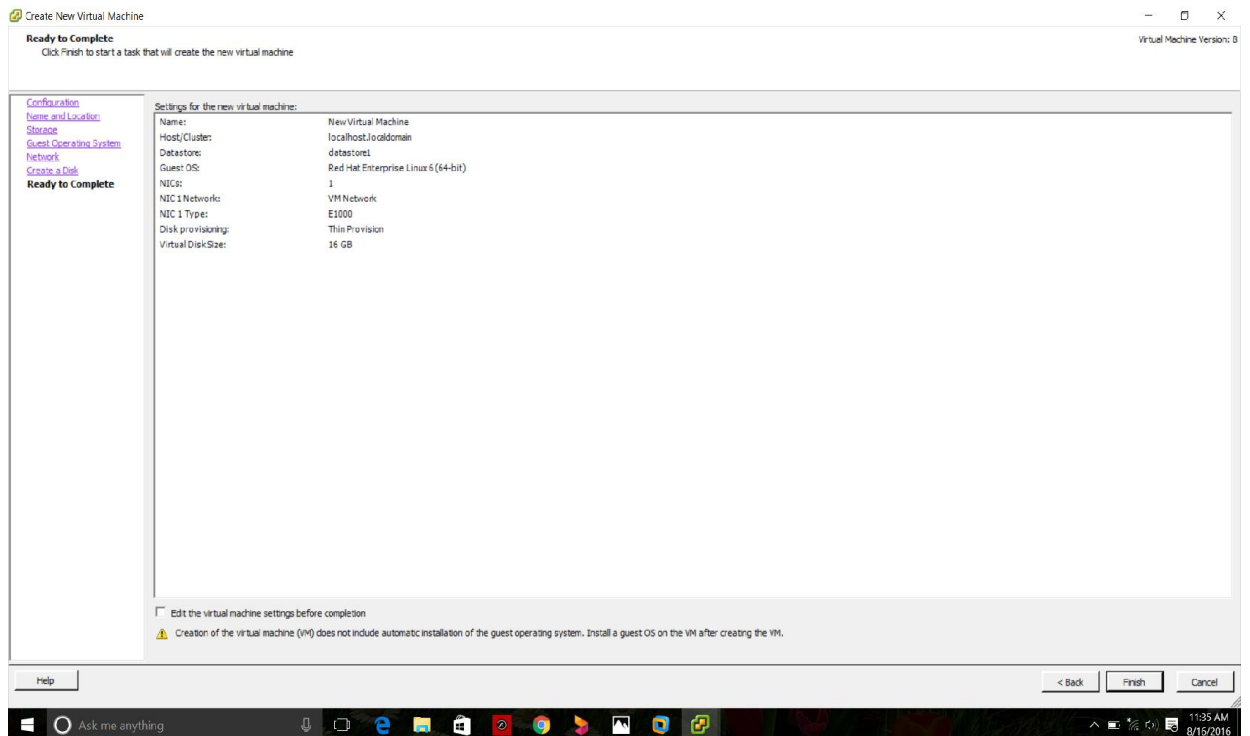
- Selected the network which is going to use with the virtual machine. Specified the number of NICs need. Here the adapter choice can affect both networking performance and migration compatibility.



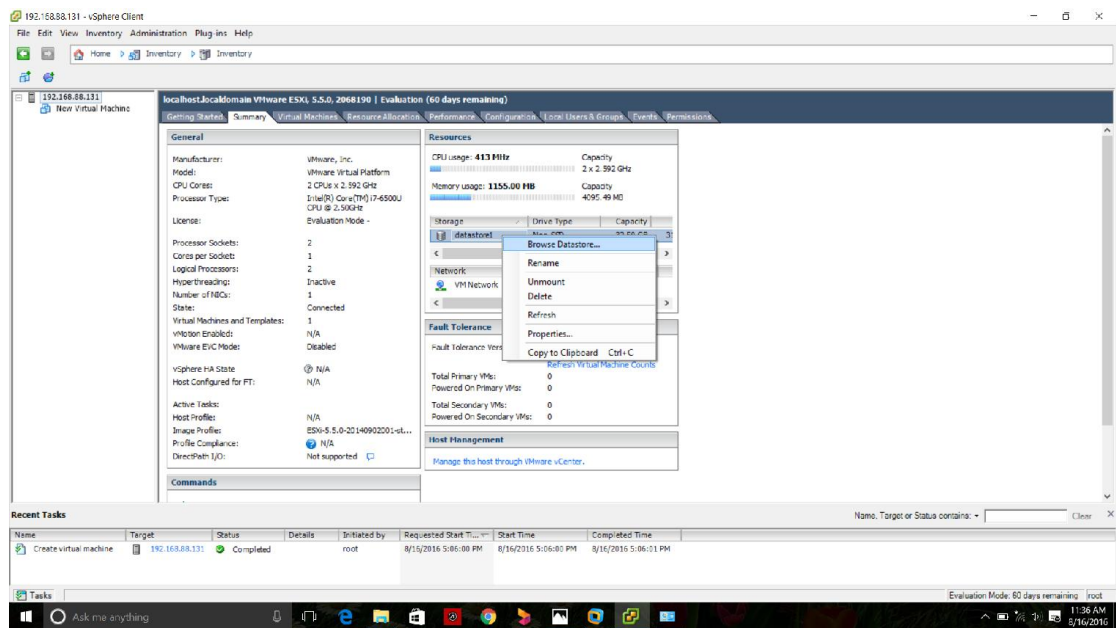
- Specified the virtual disk size and the provisioning policy.



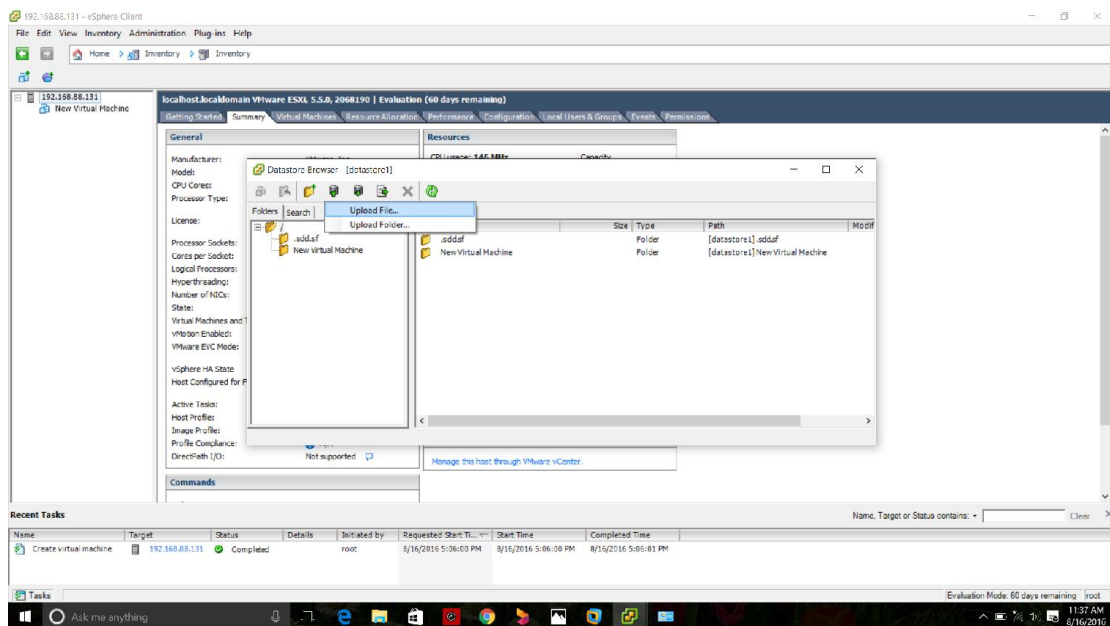
- Virtual machine is ready to complete.



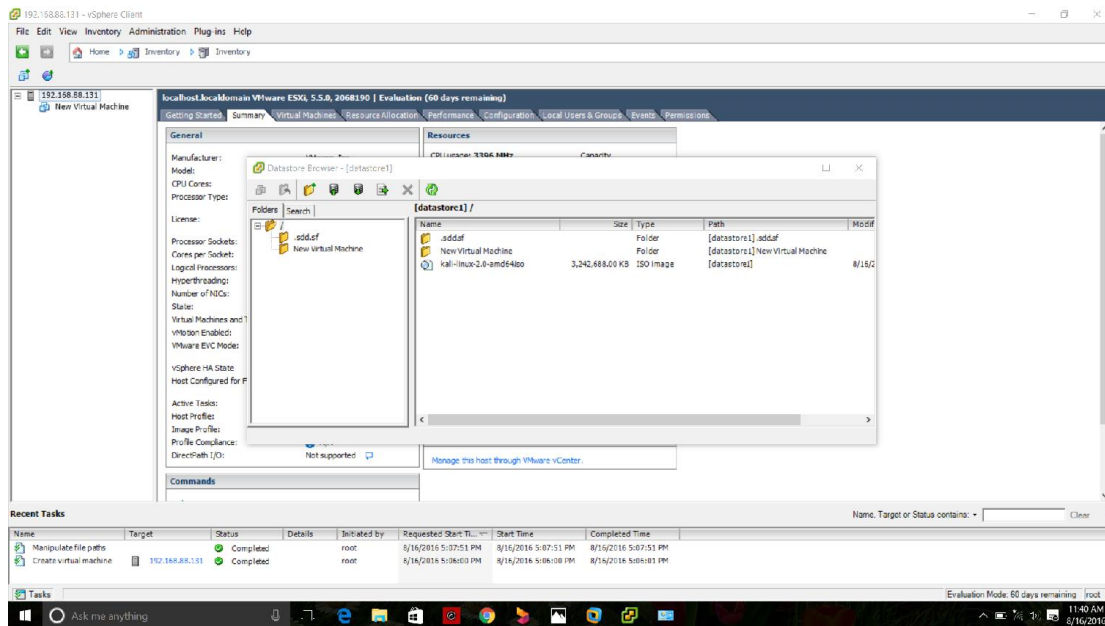
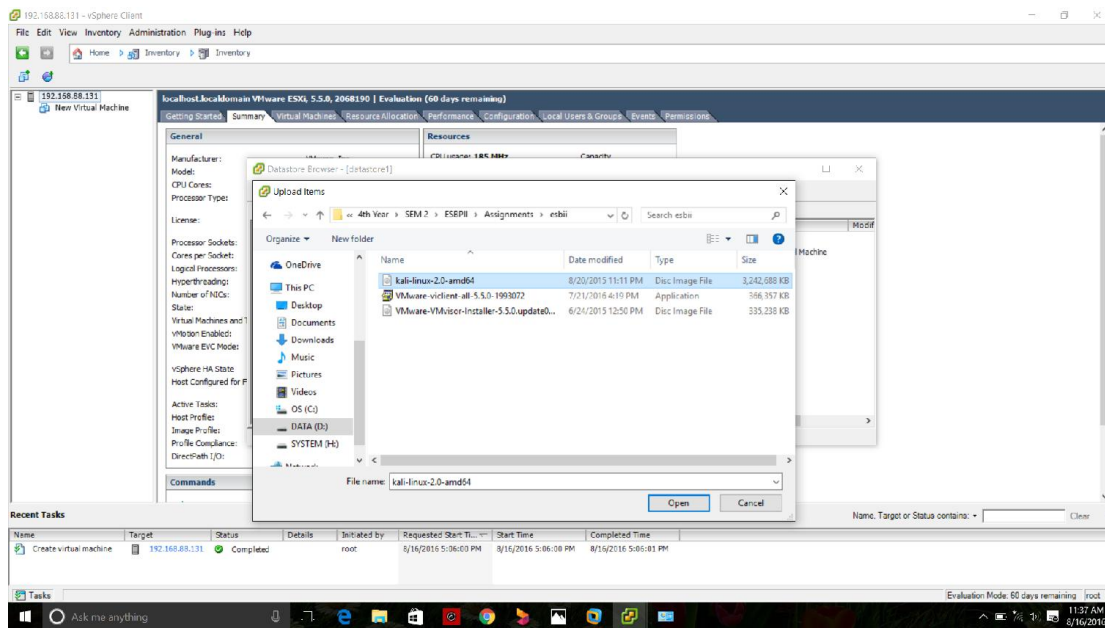
- Browse the data store of the newly created virtual machine under the storage section.



- In the data store browser go to the upload file section.

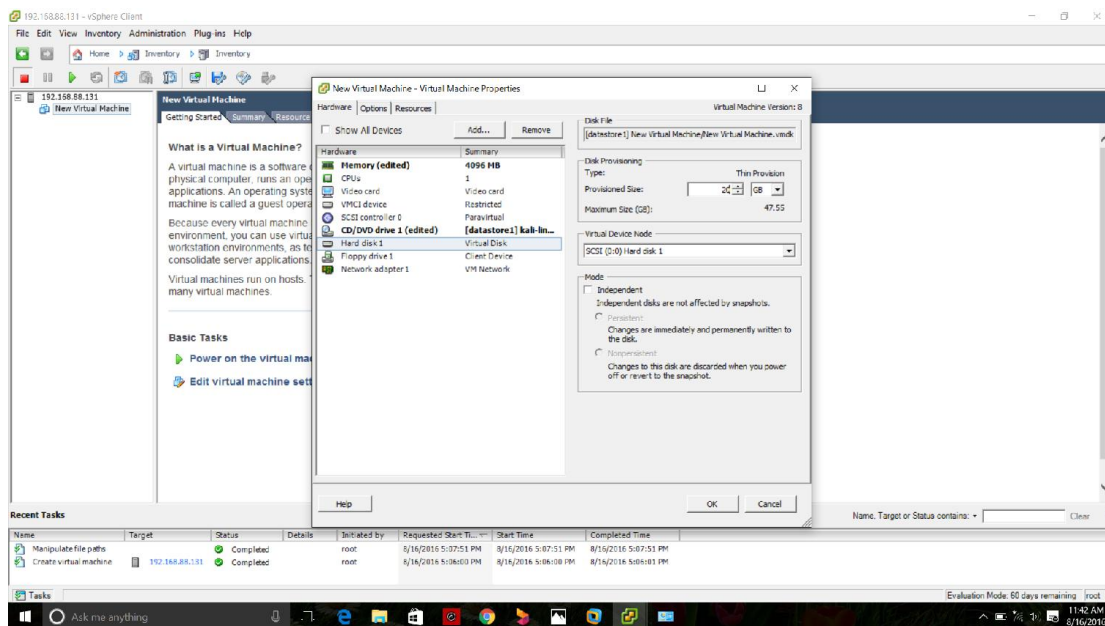
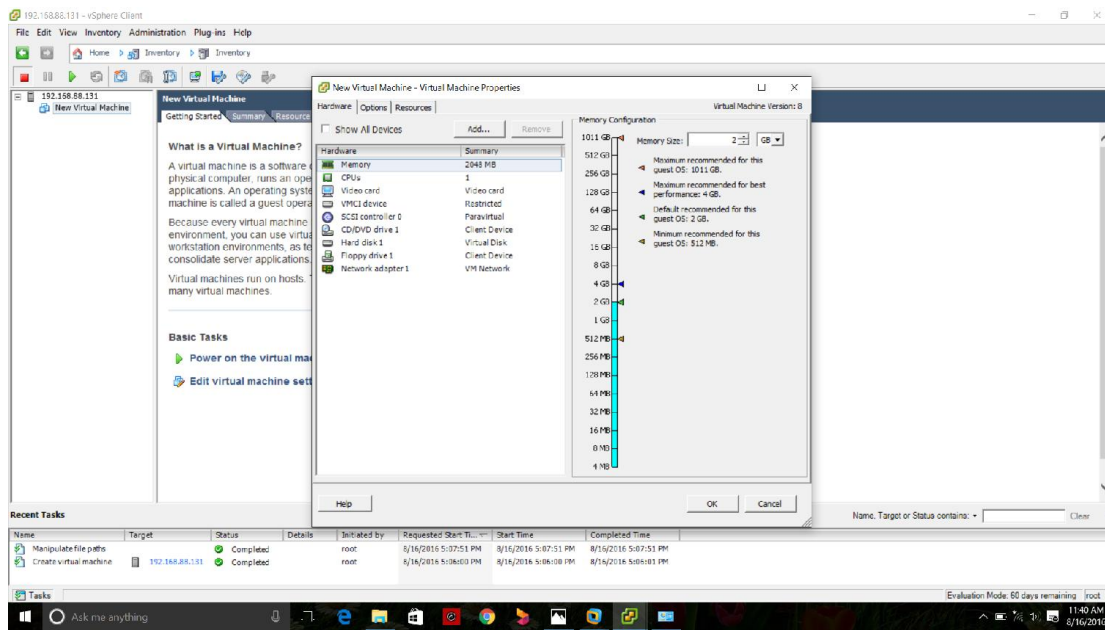


- Upload the image of kali linux inside to the virtual machine.



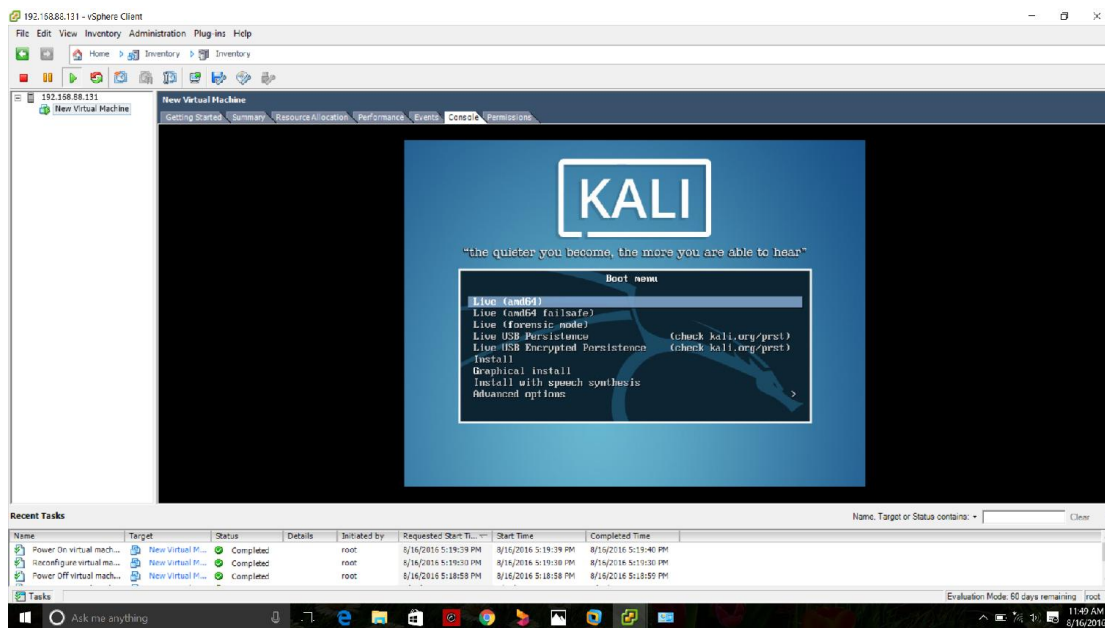
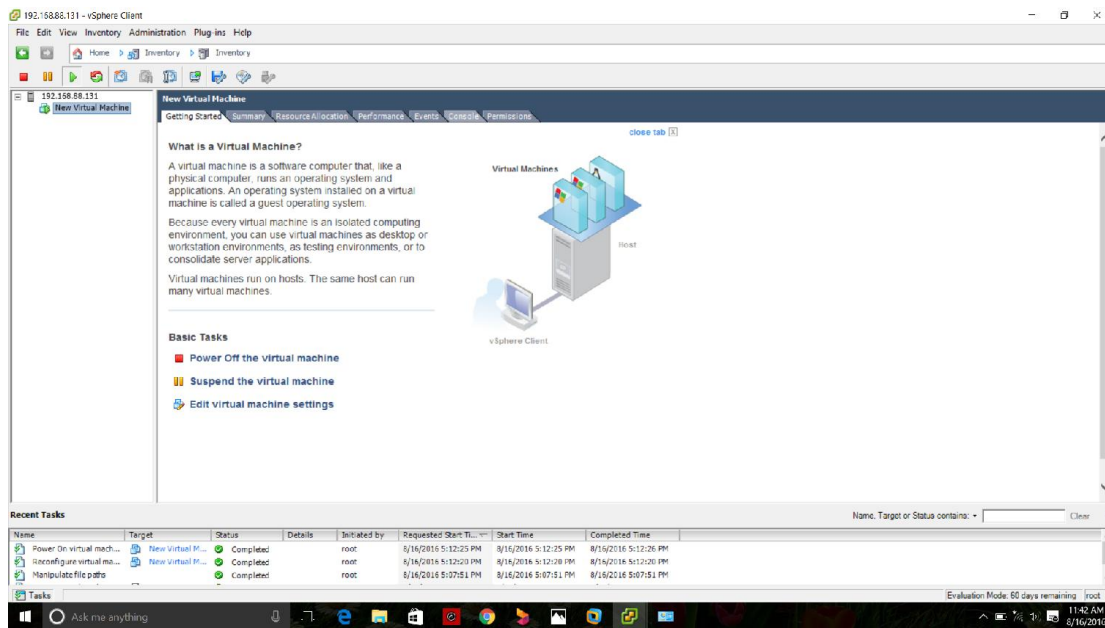


- Edited the new virtual machine properties.





## ● Getting Started with new virtual machine.. Kali Linux..



GIT HUB LINK :