

SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2016

Creating Virtual Data Center

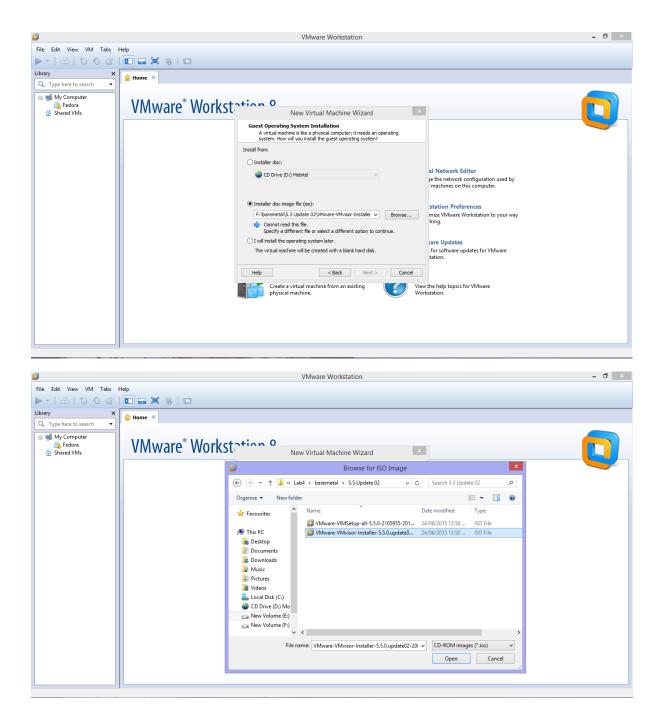
Name: Dinushi Madurangi G.G.

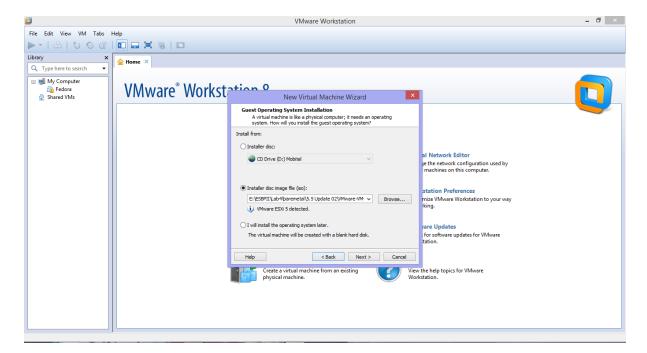
SLIIT ID: IT13049096

Practical Session: WD

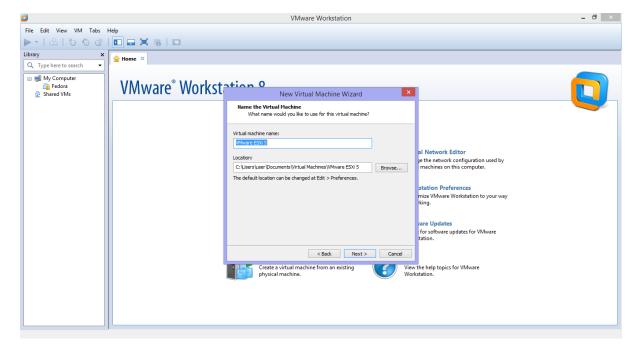
Installing vSphere ESXi Bare-Metal Hypervisor –VMware

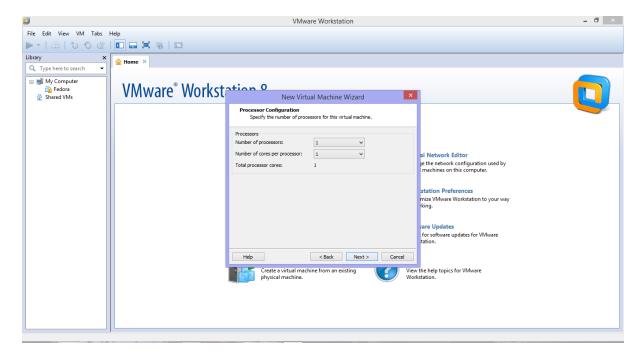
- First user has to create a New Virtual Machine using VMware.
- Open VMware
- Select File and click New Virtual Machine
- Select "Installer disk image file" and click the "Browse" button and select the folder which we want to install the software.



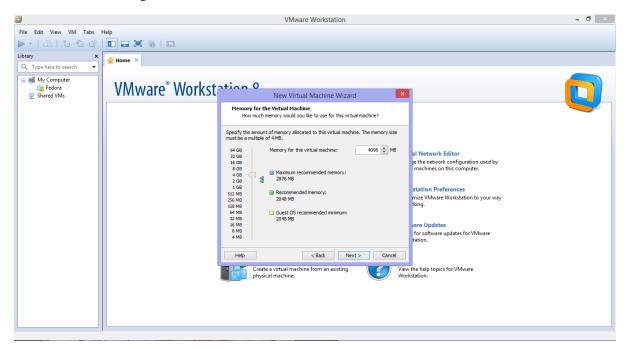


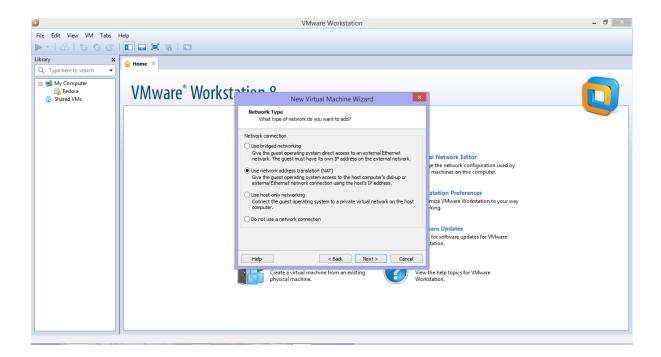
 Click to "Next" button and select a location to save and give a name to the virtual machine.

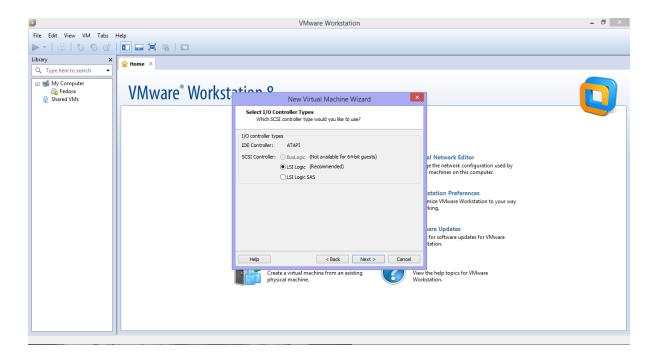




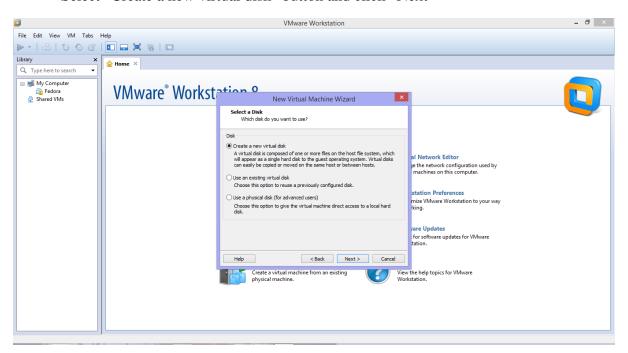
• Click "Next" button and give Maximum disk size as "40 GB" and select Store virtual disk as a single.

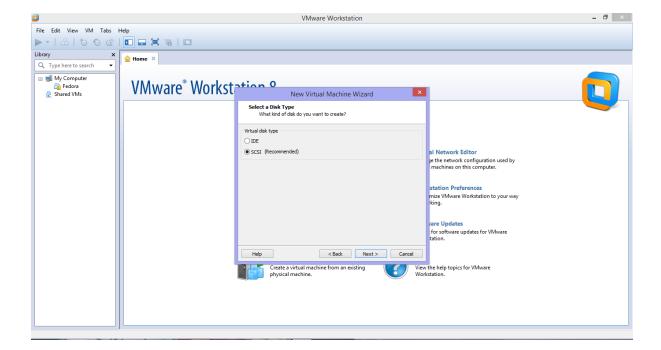




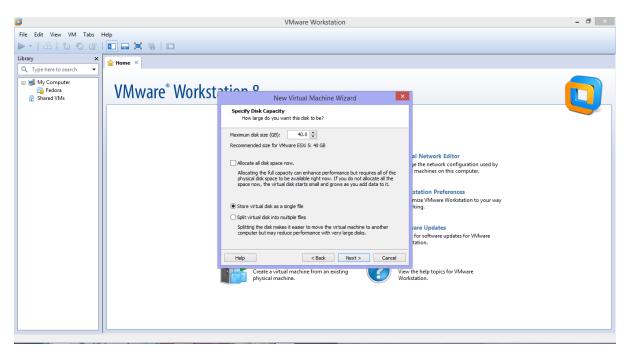


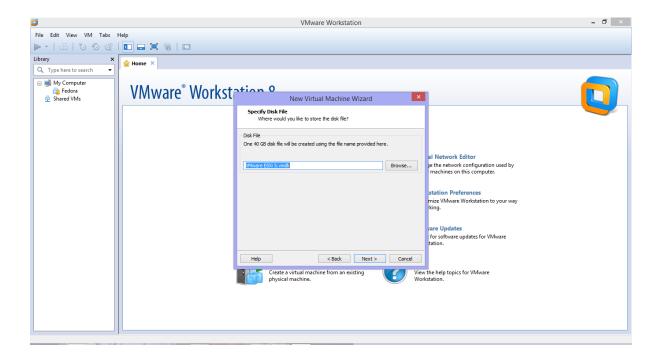
• Select "Create a new virtual disk" button and click "Next"



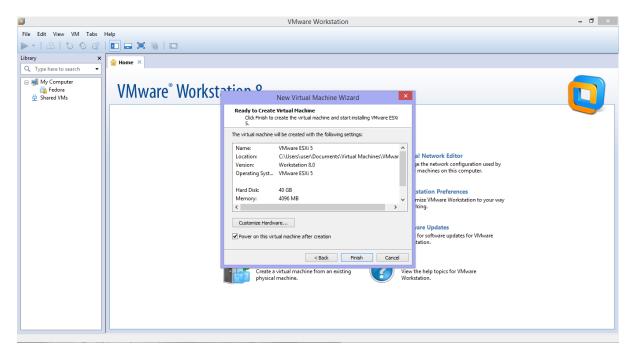


• Select "maximum disk size" is "40.0" and select "Store virtual disk as a single file" and select "Next" button.

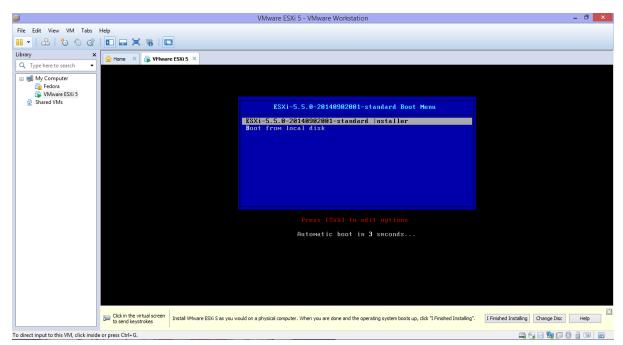


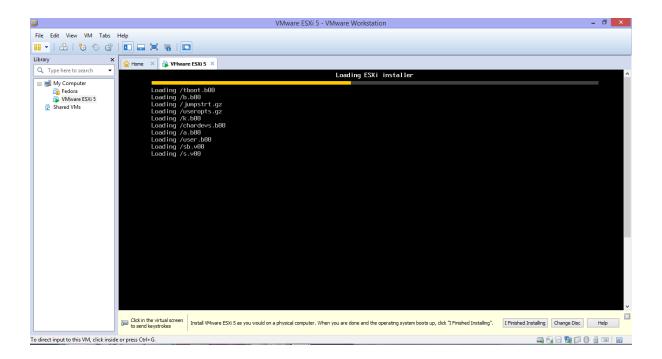


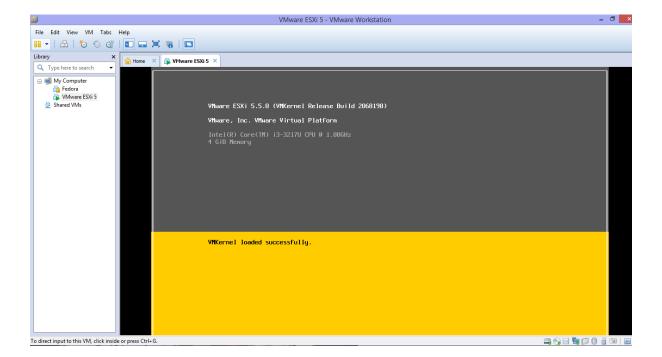
• Click "Next" and by selecting Customize Hardware button make sure Device memory is 4 GB.



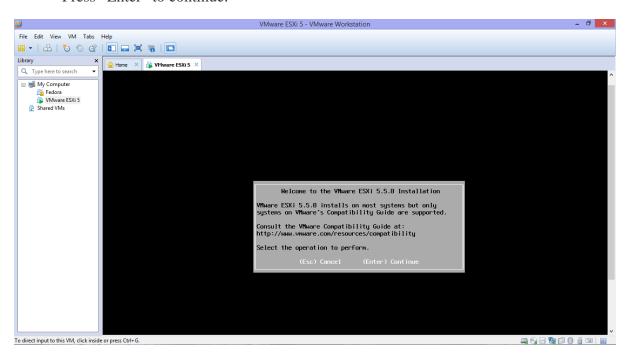
• Click "Finish" button and it will take a few minutes to boot the process.



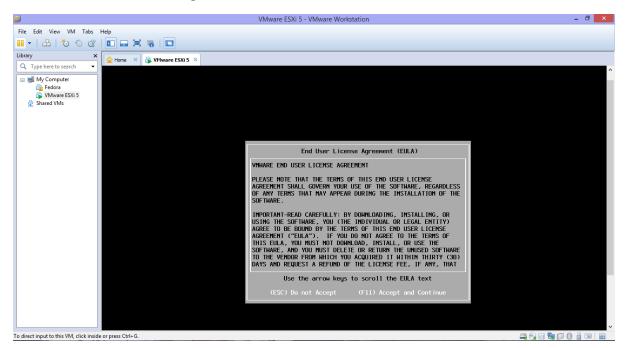




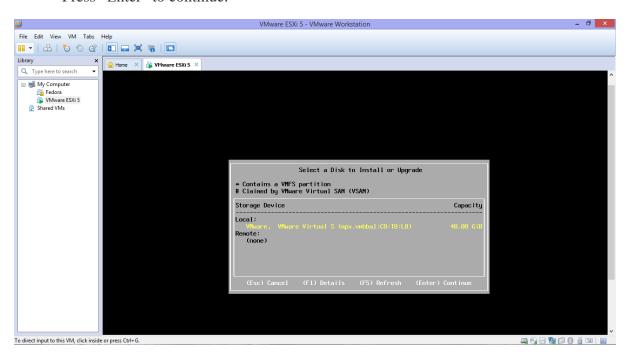
• Press "Enter" to continue.



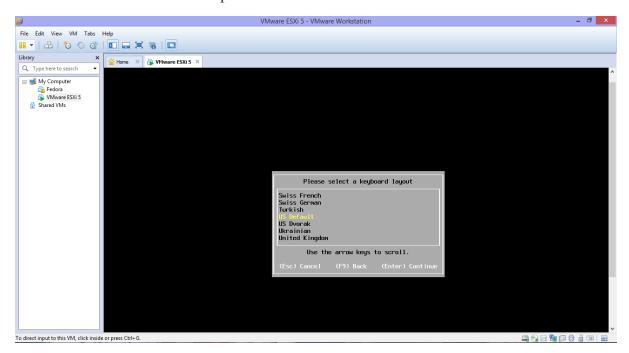
• Press "F11" to Accept and continue.



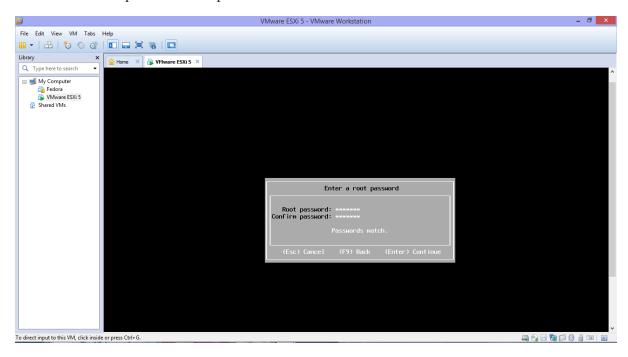
• Press "Enter" to continue.

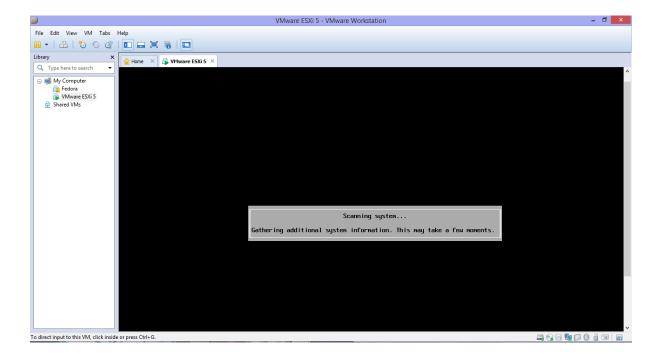


• Select "US default" and press "Enter" to continue.

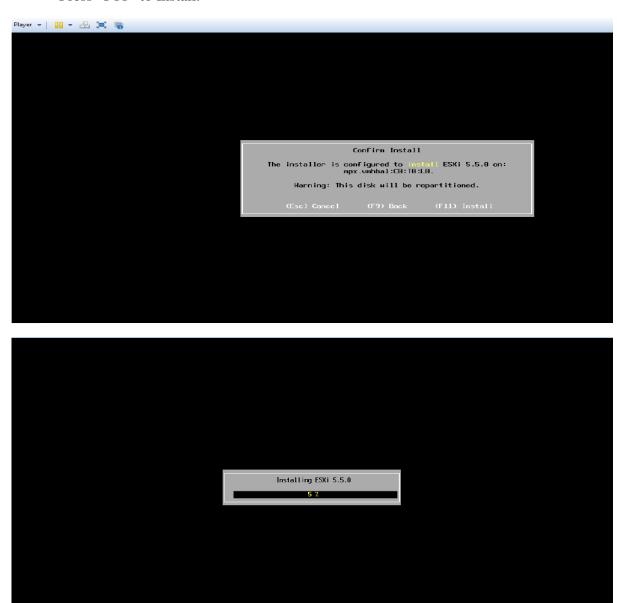


• Enter the password and press "Enter" to continue.





• Press "F11" to Install.

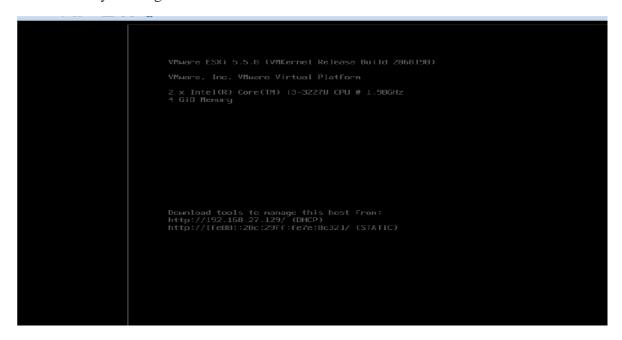


• Press Enter.

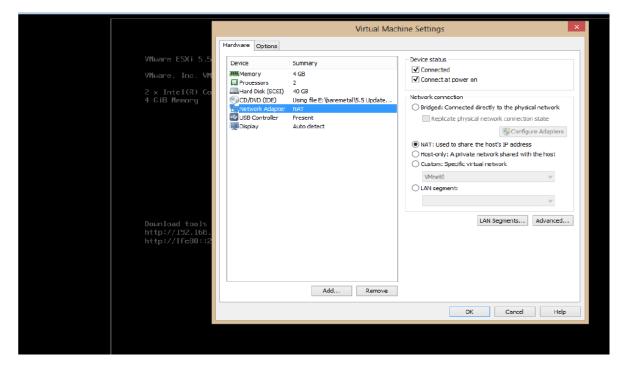




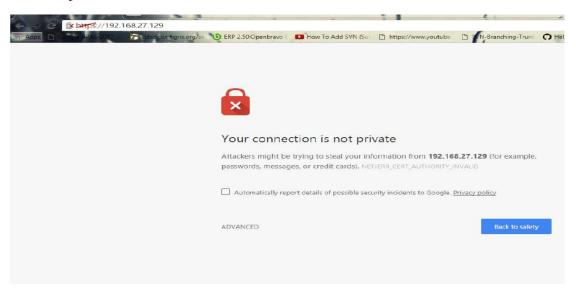
• Finally it will generate an IP address.



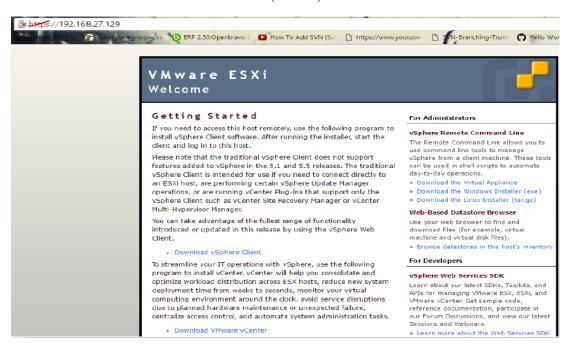
• To share the host's IP address click on "Virtual machine settings" and Select "Network Adapter" and Select "NAT: Used to share the host's IP address".



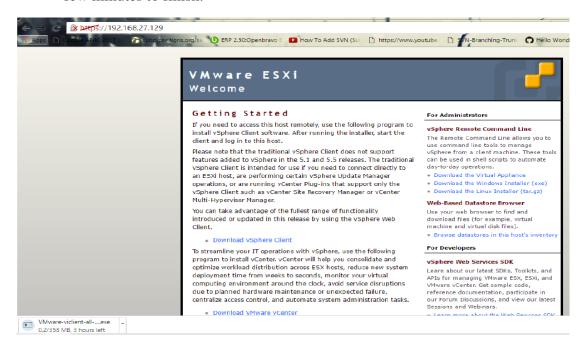
• Open the URL on a new tab and Click "ADVANCED".



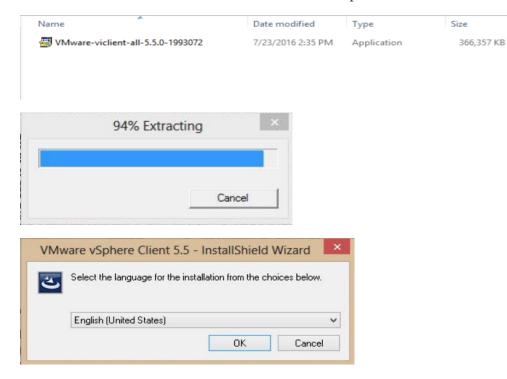
• Click Proceed to 192.168.27.129(unsafe).



• Then click on 'Download vSphere Client, Setup will be downloaded and it will take few minutes to finish.



• After Download has finished install the setup.



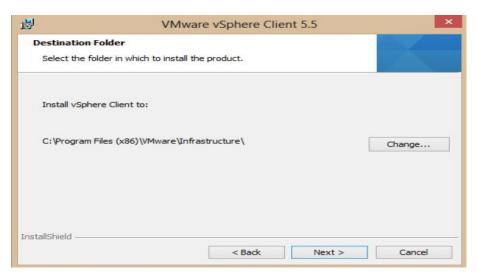


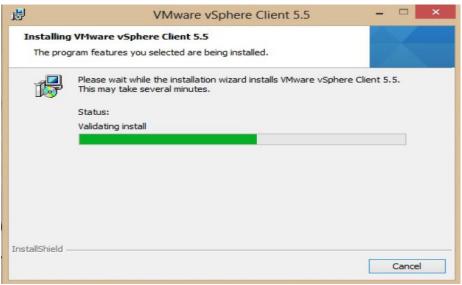


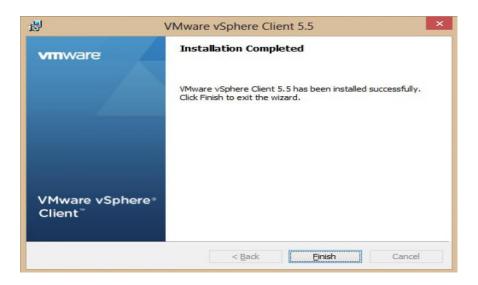












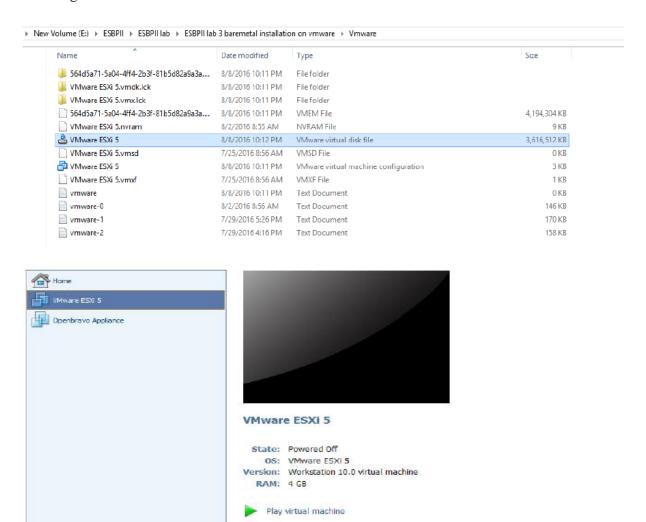
• After the installation process has finished it can open the vSphere client by selecting "All programs" and search "VMware vSphere client".





Creating a new virtual machine on vSphere ESXi Bare-Metal Hypervisor

- The key ingredients for virtual machine success and installed the hypervisor ESXi 5
 and a management tool vSphere Client. From here, and then can start building virtual machines to meet organizational needs.
- To open the VMware ESXi 5 from Virtual Machine management software open the location that we have selected early to save the file. It will takes few minutes and will generate an IP address.



Edit virtual machine settings

Whware ESXI 5.5.0 (Whiternel Release Build 2068190)
Whware, Inc. Whware Virtual Platform
2 x IntoI(R) Core(TM) 13-3227U CPU @ 1,98GHz
4 GIB Memory чмы_psp_mru loaded successfully.

VMware ESXi 5.5.0 (VMKernel Release Build 2068190)

VMware, Inc. VMware Virtual Platform

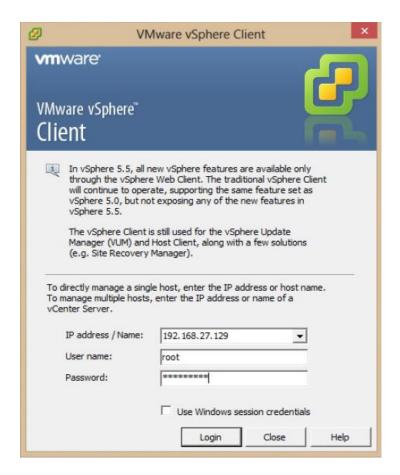
2 x Intel(R) Core(TM) i3-3227U CPU @ 1.90GHz 4 GiB Memory

Download tools to manage this host from: http://192.168.27.129/ (DHCP) http://IFe88::28c:29ff:fe7e:8c321/ (STATIC)

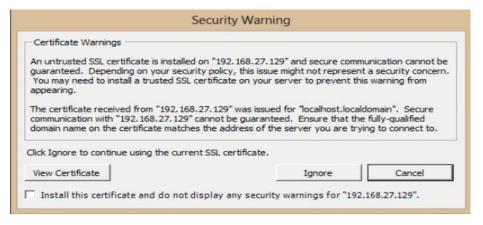
- Start the vSphere Client by opening Start "All Programs" → "VMware" → "VMware Sphere Client". This will open up the vSphere Client login page.
- On this page, provide the IP address for your ESXi 5 host and also provide the root username and password that you specified during the setup of your server.



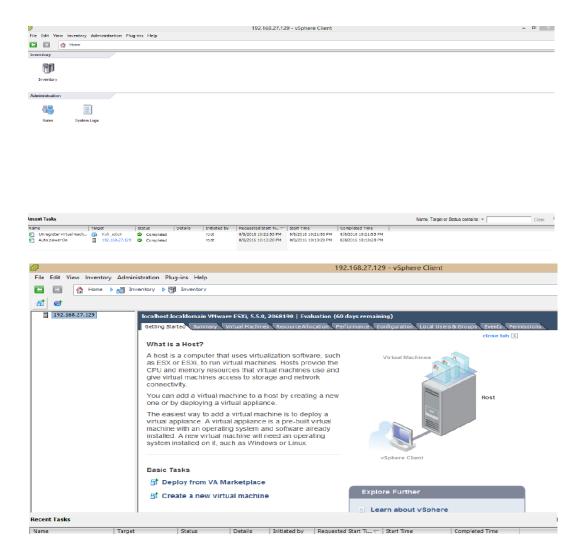




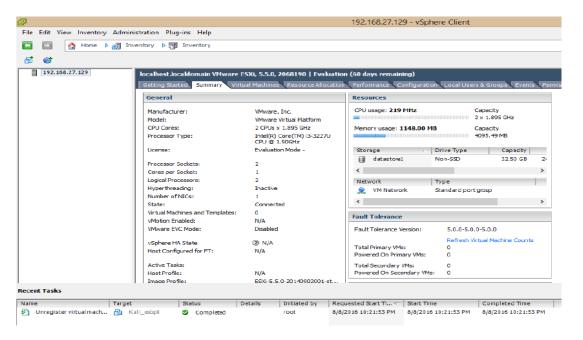
• You will receive a security warning and it is basically telling you that SSL certificate being used by the ESXi host can't be trusted. However, since you just installed the ESXi server, you're generally sage simply clicking the Ignore button here, although you can also choose to install the certificate to your local certificate store so that you don't see this message again.

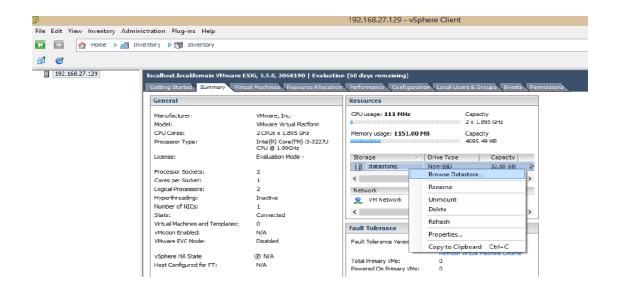


Then you will be redirected to the home page. Double click on Inventory image button to see server IP address.

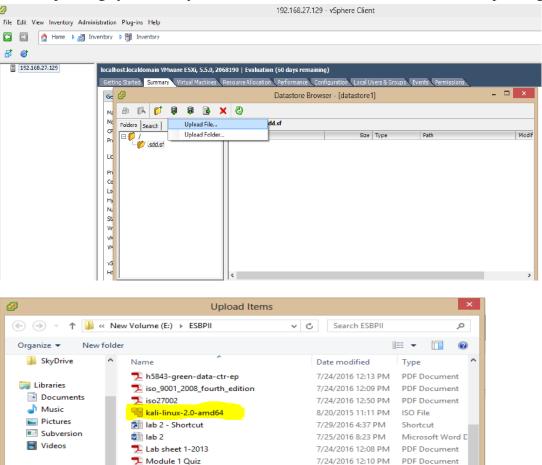


• Click on "summary" tab and it shows storage area at right corner. Right click on "datastore1" and select "browse data".

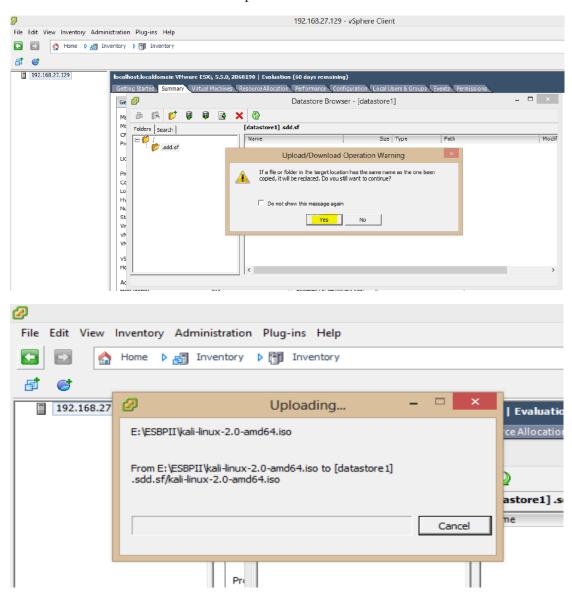


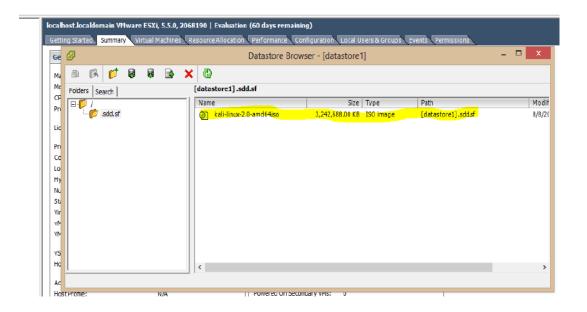


• Select 5th icon (upload files to this data store) from tool bar to upload a disk image of a new operating system that you want to install. Click on upload file and select an operating system that you want to install. In here install Kali-Linux Operating system

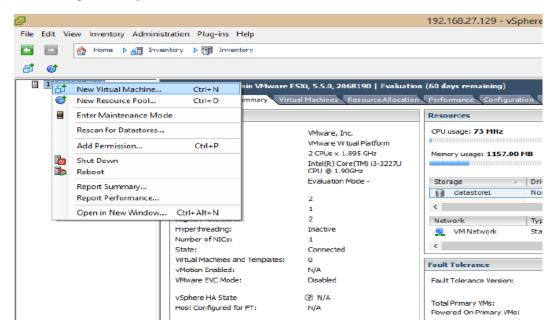


• It will takes few minutes to upload.

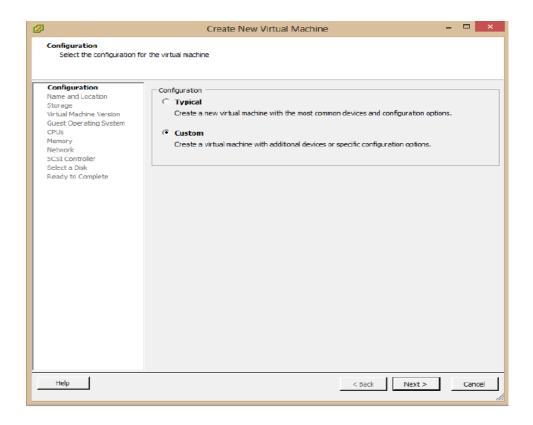




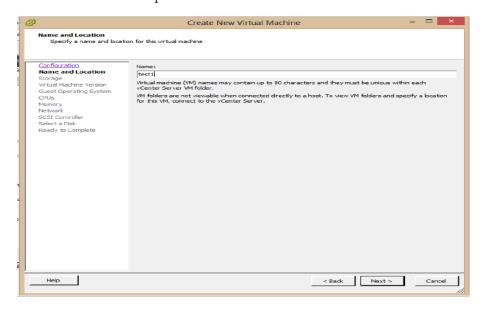
• Right click your "server IP address" and choose "New Virtual Machine".



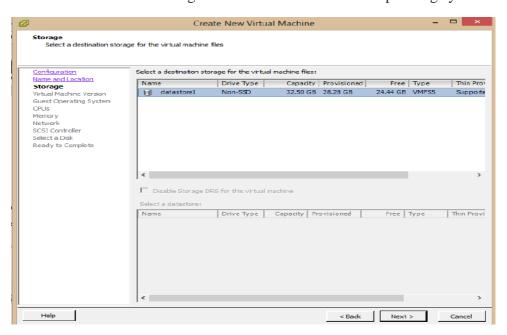
Select "Custom option".



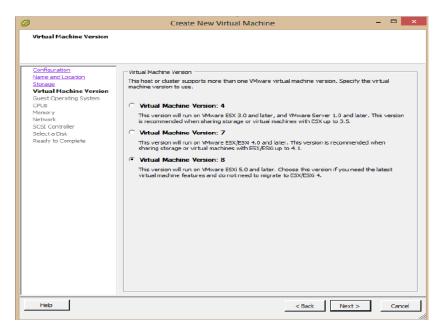
• Provide a unique name for the new virtual machine.



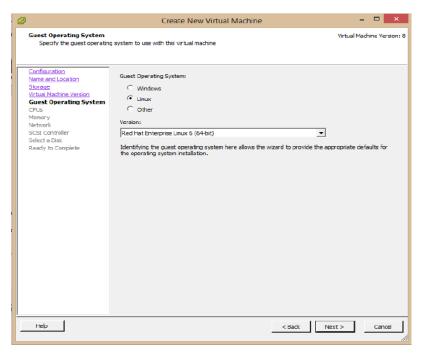
• Select the data storage file which was created the operating system.



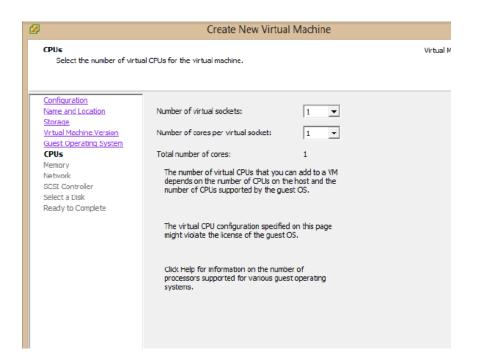
• Select Virtual Machine version 8.



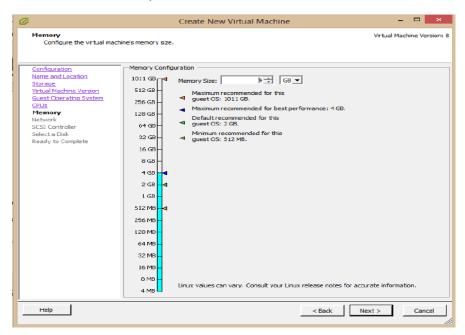
• Select guest operating system as Linux.



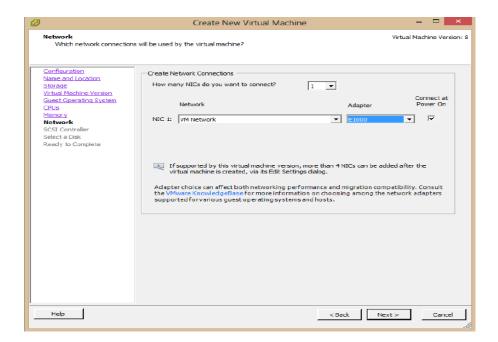
• Select number of virtual CPU s as 1.



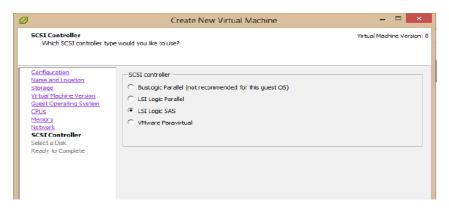
• Select memory size is to 4 GB.



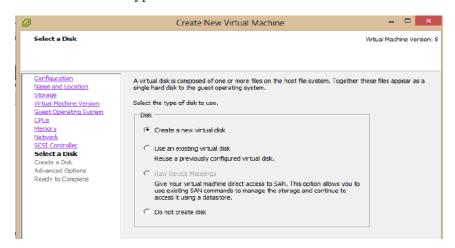
• Create Network connections. Select adapter type as E1000.



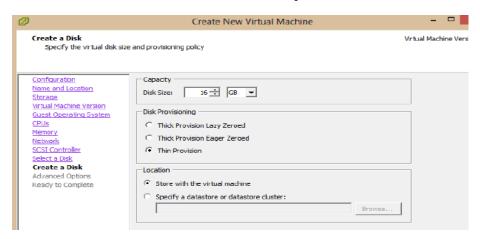
• Select SCSI controller as LSI Logic SAS.



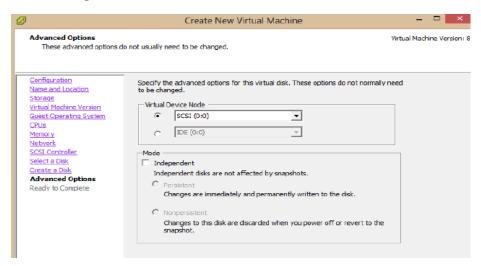
• Select the type of disk to use.



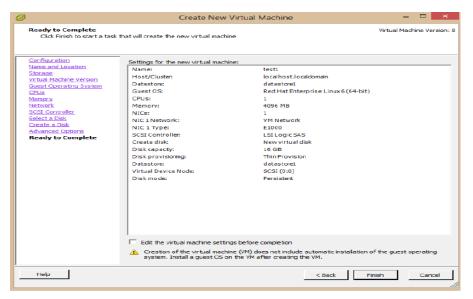
• Give disk size as 16 GB. Select thin provision and store with the virtual machine.

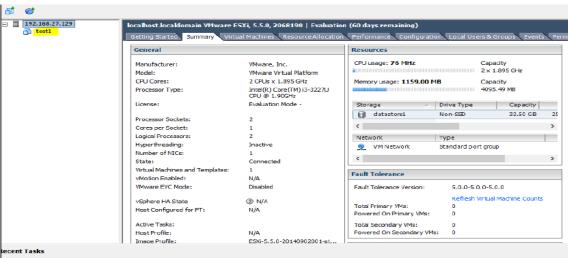


• Keep default virtual device node.

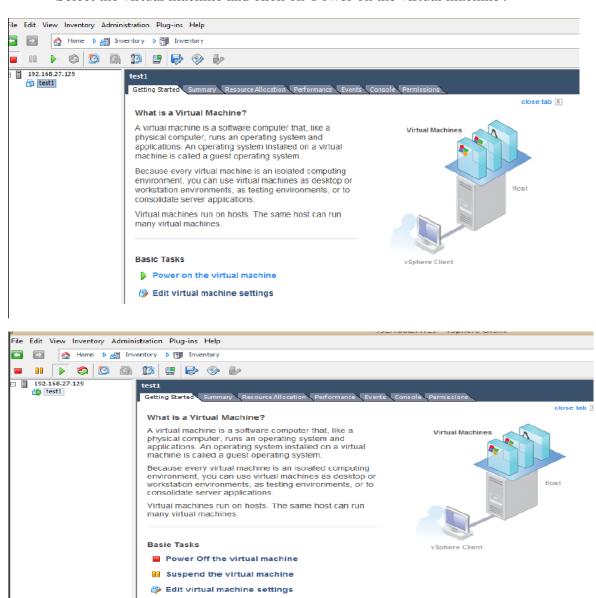


• Click on "Finish" button and after configuration has done it shows the created virtual machine (test1).

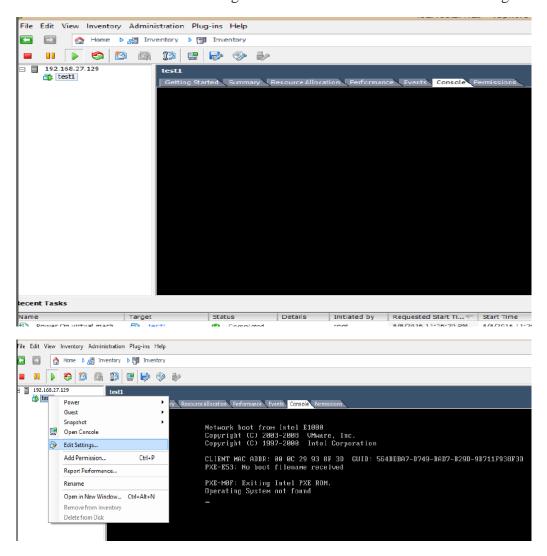




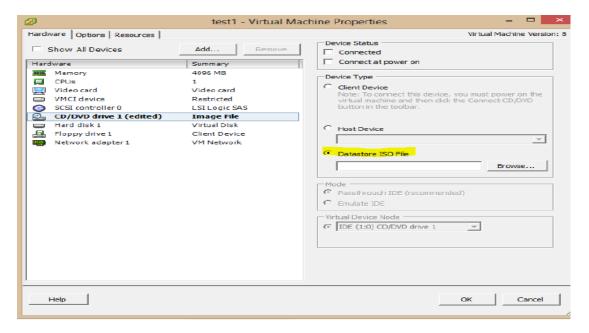
• Select the virtual machine and click on 'Power on the virtual machine'.

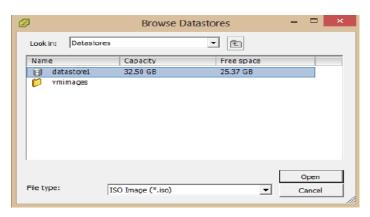


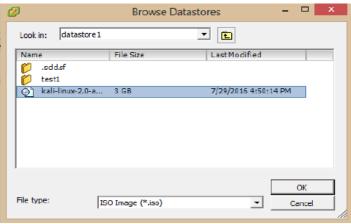
• Go to console tab. Then right click on the test1 and select Edit settings.

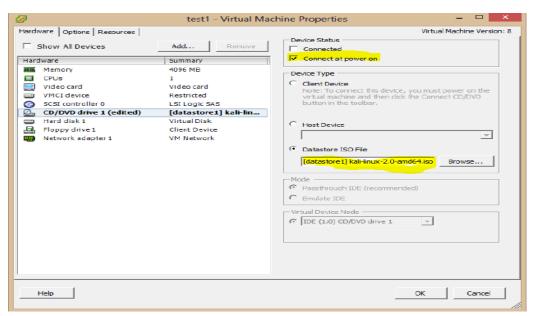


• Select CD/DVD driver and from Data store ISO file browse early created datastore1 file.









• After the configuration the operating system will be loaded. Select Live (amd64) and press enter to continue

