CLOUD COMPUTING

PREETI MISHRA

ROLL NO: 09

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CERTIFICATE

This is to certify that Mr. / Miss/Mrs.**PREETI MISHRA** ' with Seat No **09** has successfully completed the necessary course of experiments in the subject of **CLOUD COMPUTING** during the academic year **2020 – 2021** complying with the requirements of **RAMNIRANJAN JHUNJHUNWALA COLLEGE OF ARTS, SCIENCE AND COMMERCE**, for the course of **M.Sc. (IT)** semester -I.

Internal Examiner

Date: **6/3/2021**

Head of Department

College Seal

External Examiner

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5	Implement ESXi Server	
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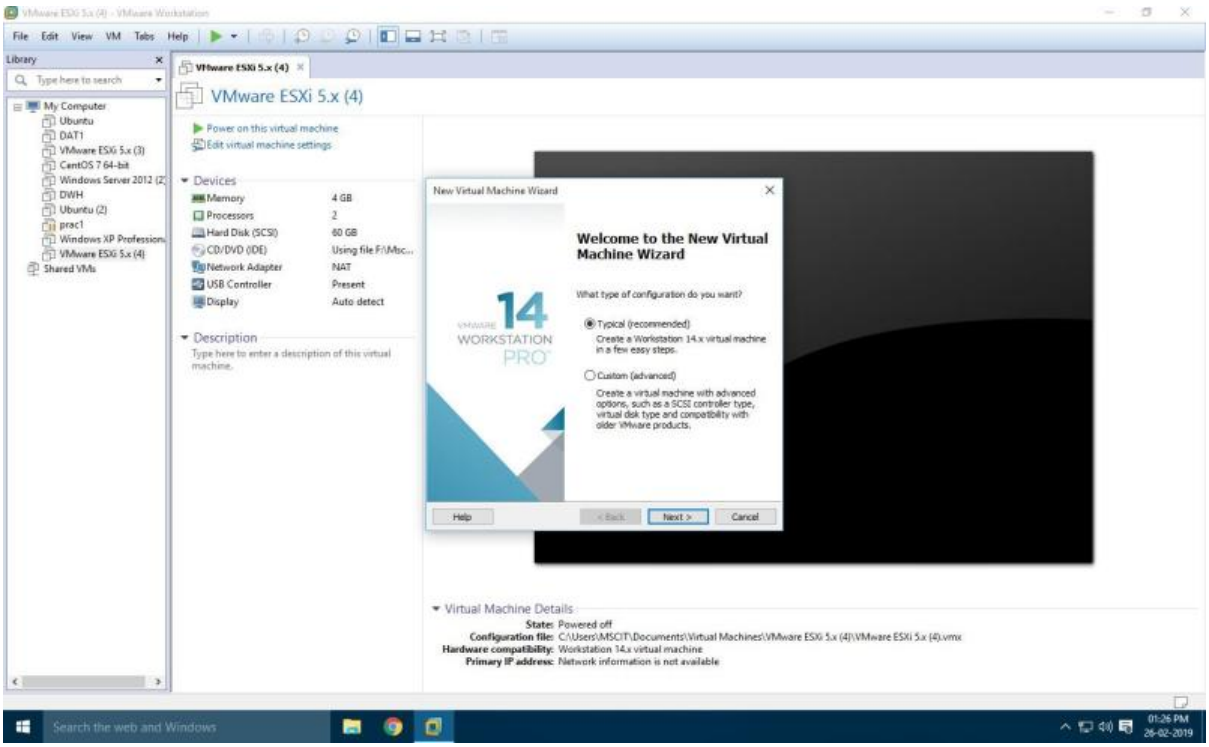
CLOUD COMPUTING

PRACTICAL: 1

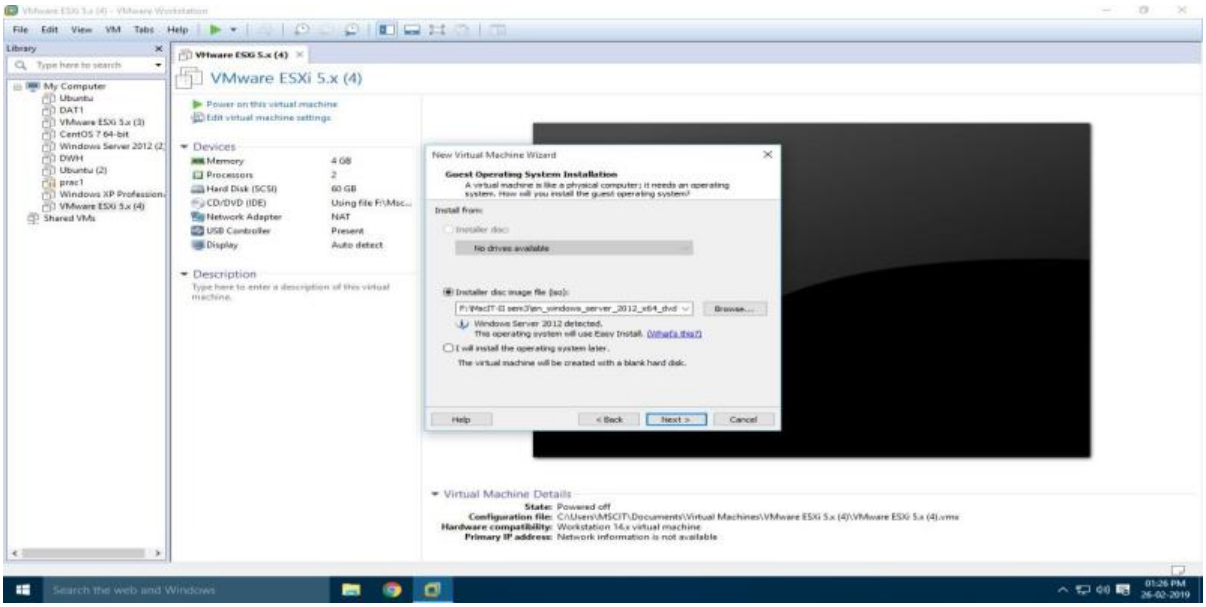
IMPLEMENTING CLUSTER ON WINDOWS

Install the **VMWare Workstation**. The **Home page** of VMWare Workstation looks like the picture below. To create a new Virtual Machine click on **"Create a New Virtual Machine"**.

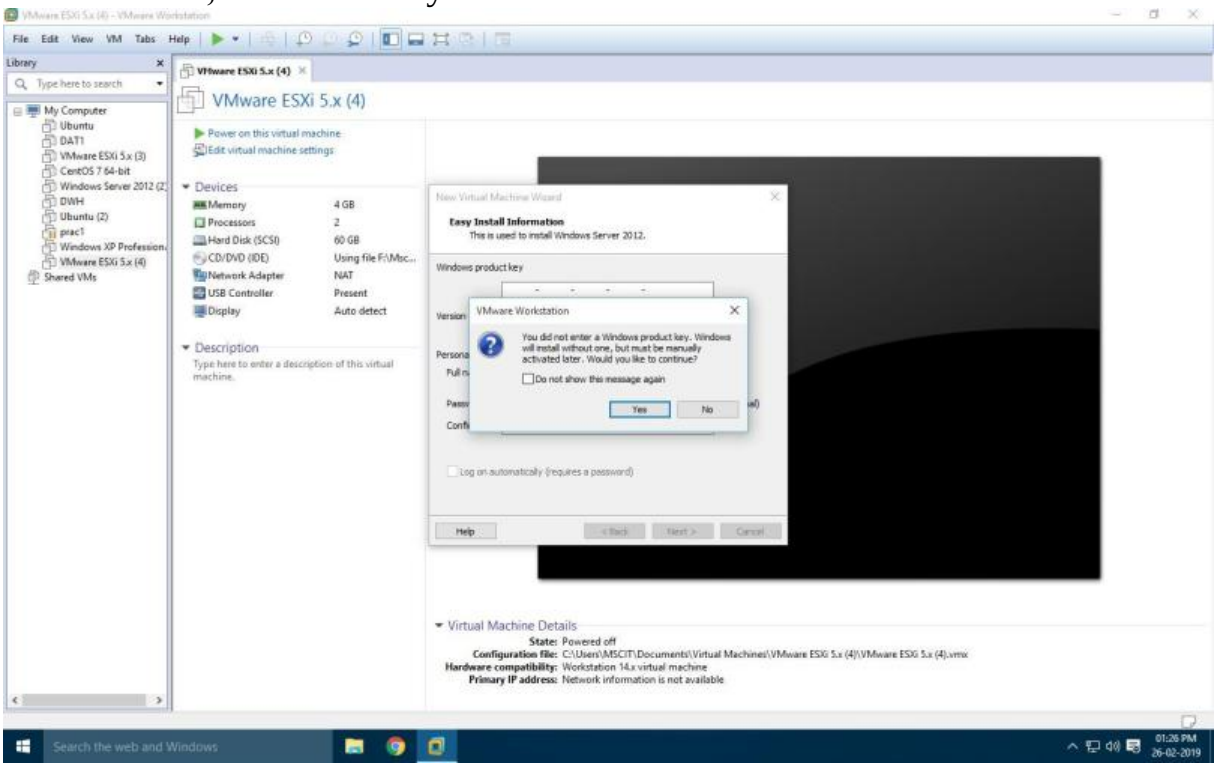
In the **"New Virtual Machine Wizard"** select the **"Typical"** option. And click on **"Next"** button.



In the Next window, select the option **Install Disc** and click on **Browse** to select the windows server 2012 iso file and then click on **Next.**
In this window, select the name of **operating system** and its **version.**

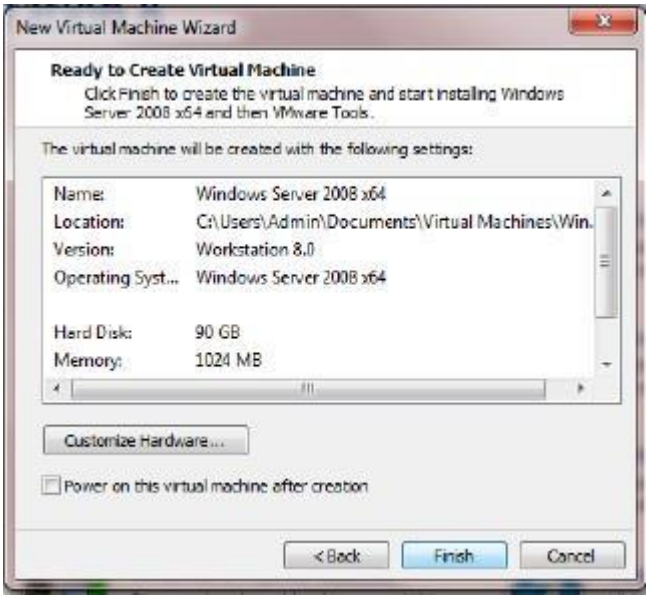


Click **"Next",** And click on yes

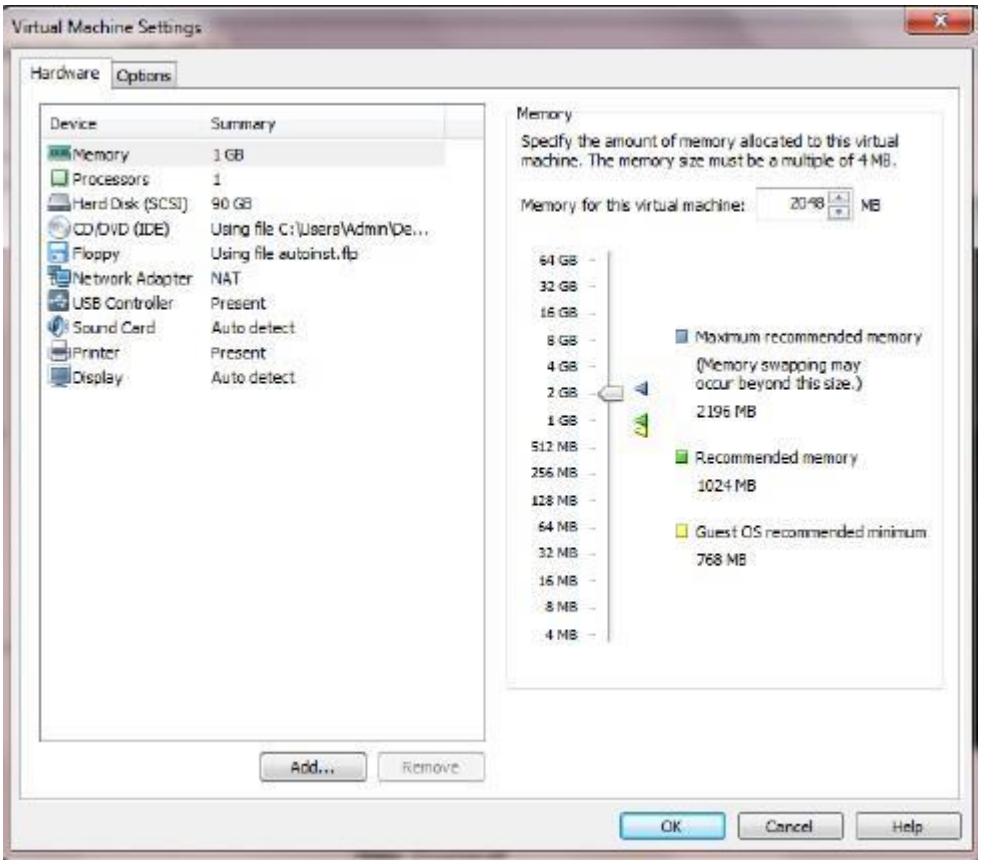


Choose **“Store virtual disk as a single file”** and Keep the memory size as **90GB**. Click on “**Next**”.

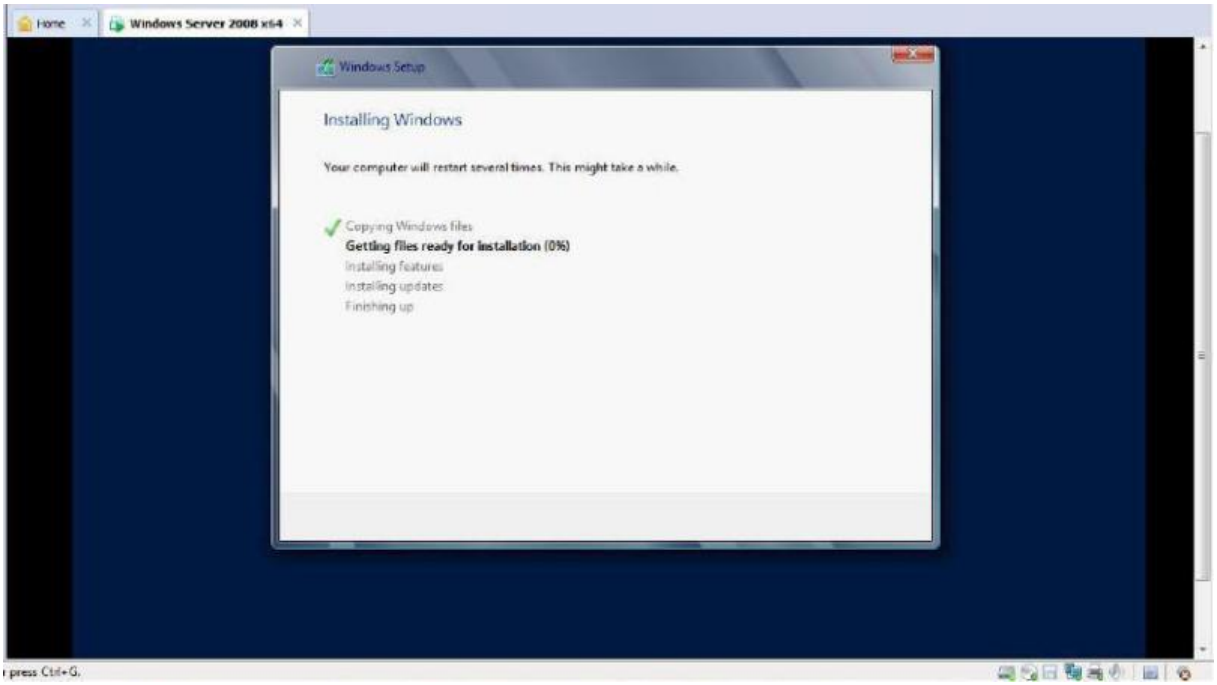
Click on “**Finish**” button.



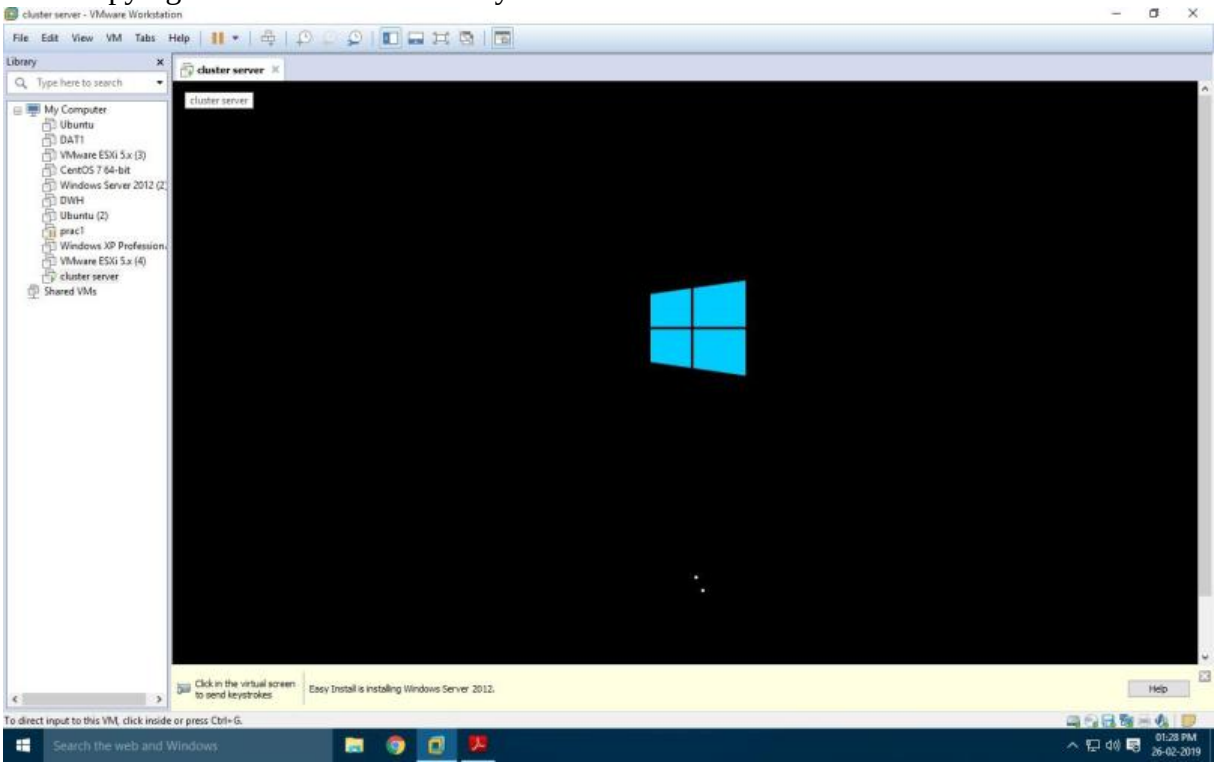
Click on **Memory** under Devices on the right side and make it to **2GB.**
Power on the virtual machine by clicking on “**Power on this virtual machine**”.



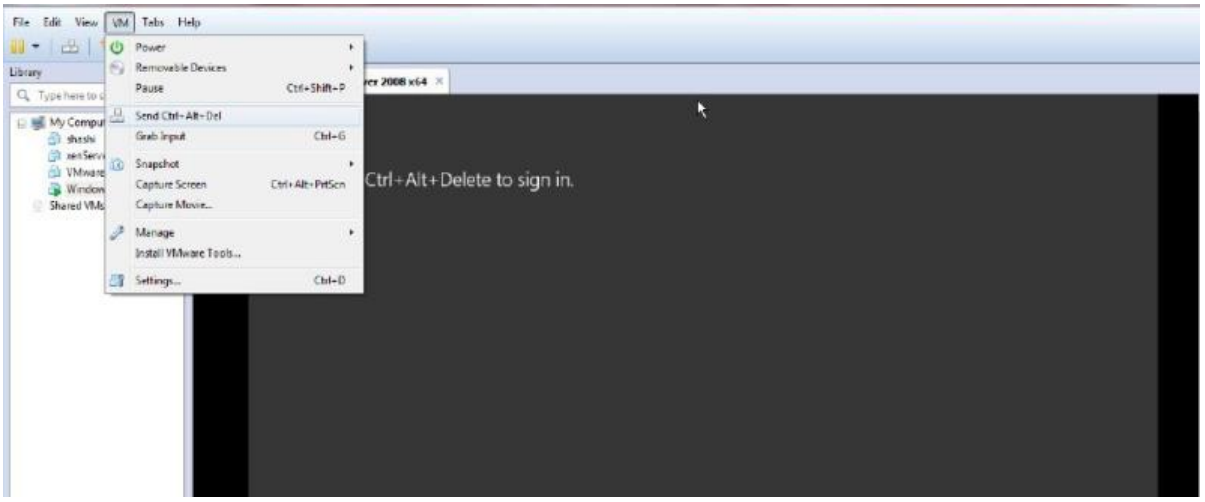
Copying of **System Files** will start.



After copying files it will automatically start.

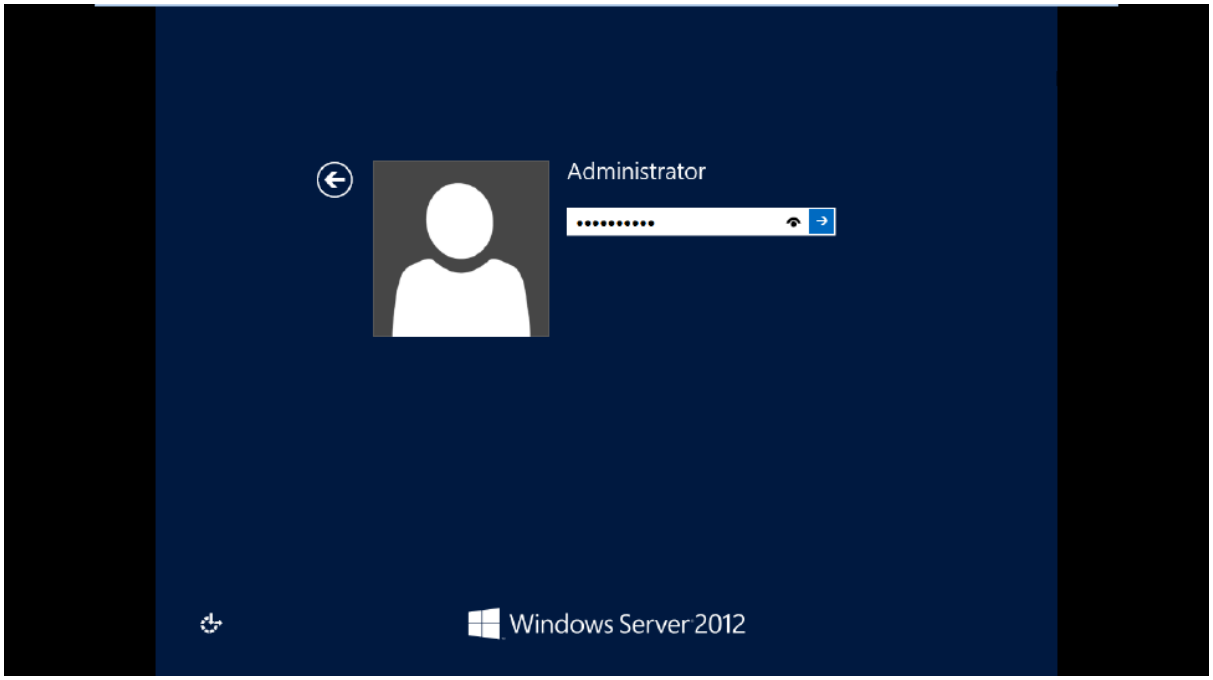


If installing on the Virtual Machine like VMWare then you need to click on the menu as show in the next screen.

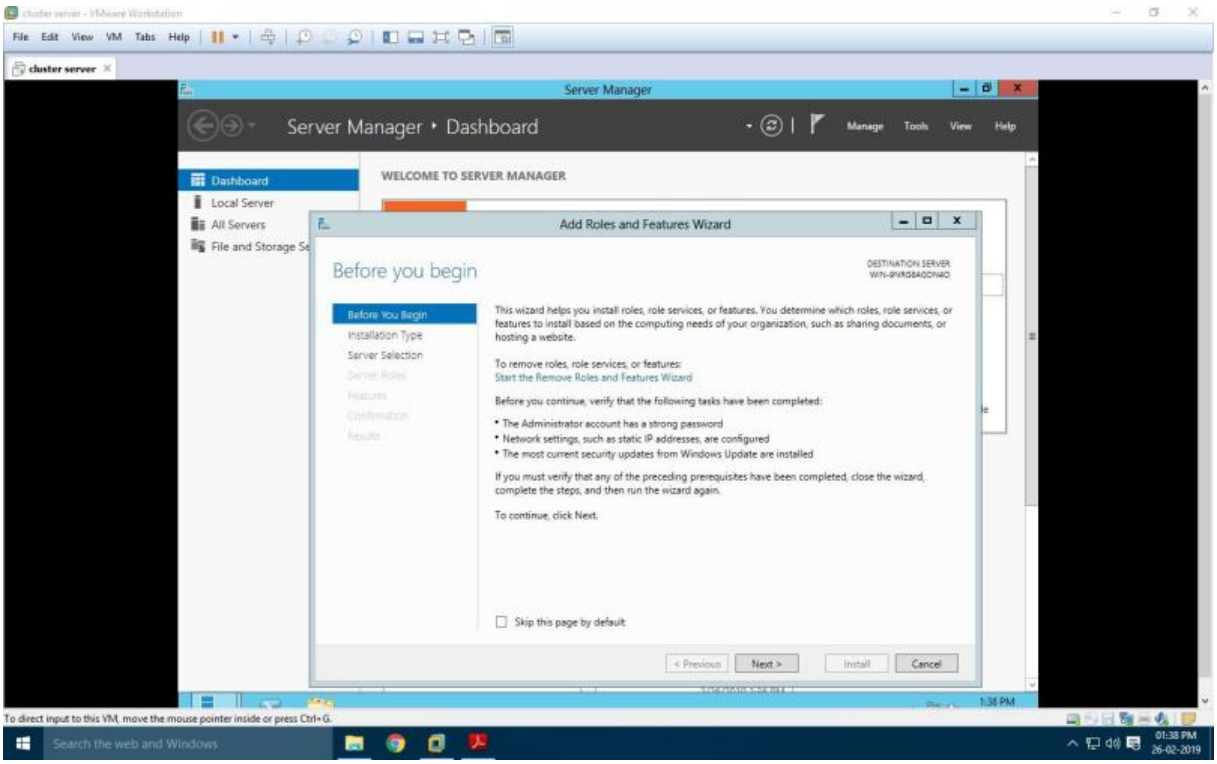


Enter the password and press “Enter” button on the keyboard

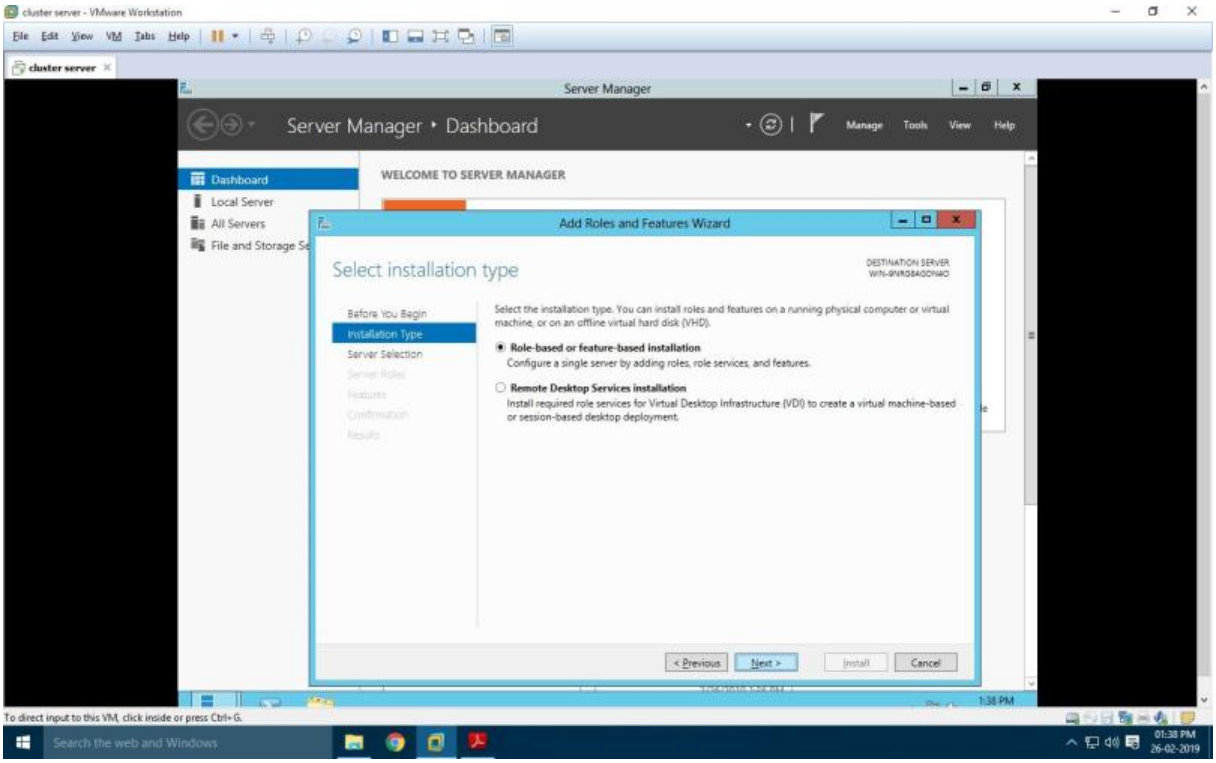
Password:Admin12345



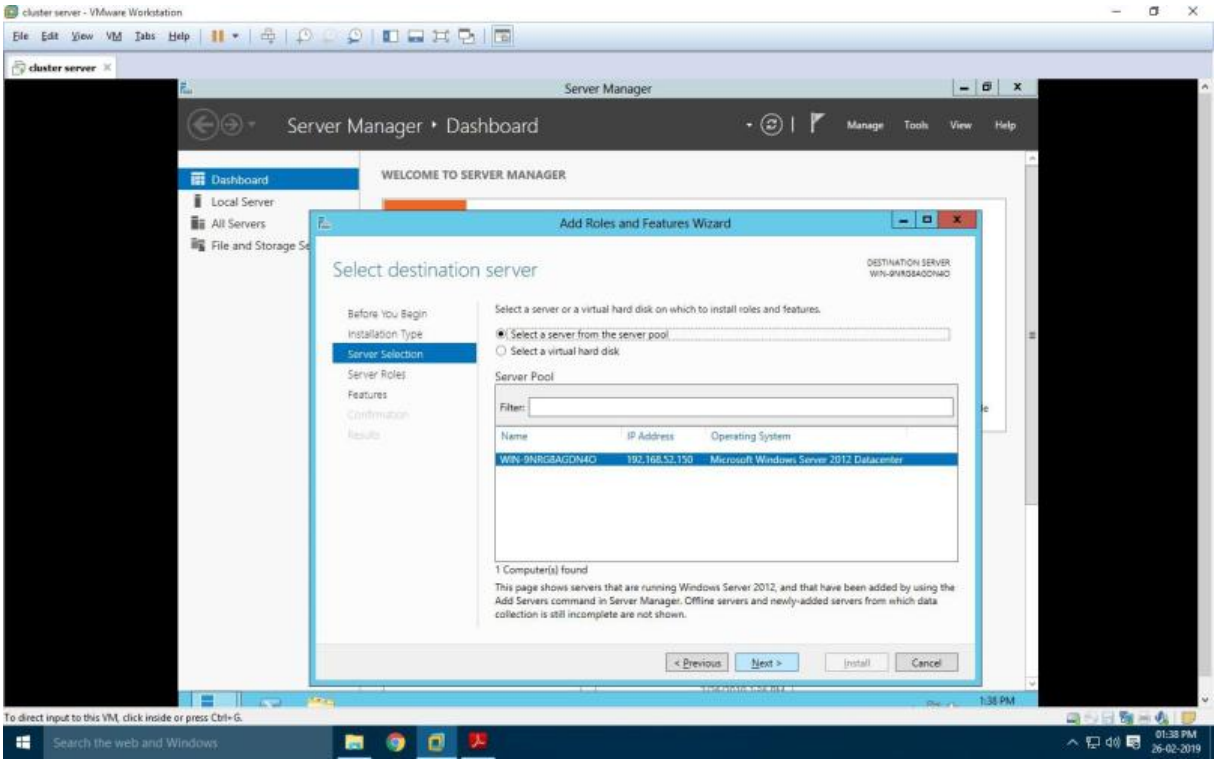
To make the current system a Domain Controller click on “Add Roles and Features” under the “Manage” menu at the top of the screen and get the “Add Roles and Feature Wizard”.



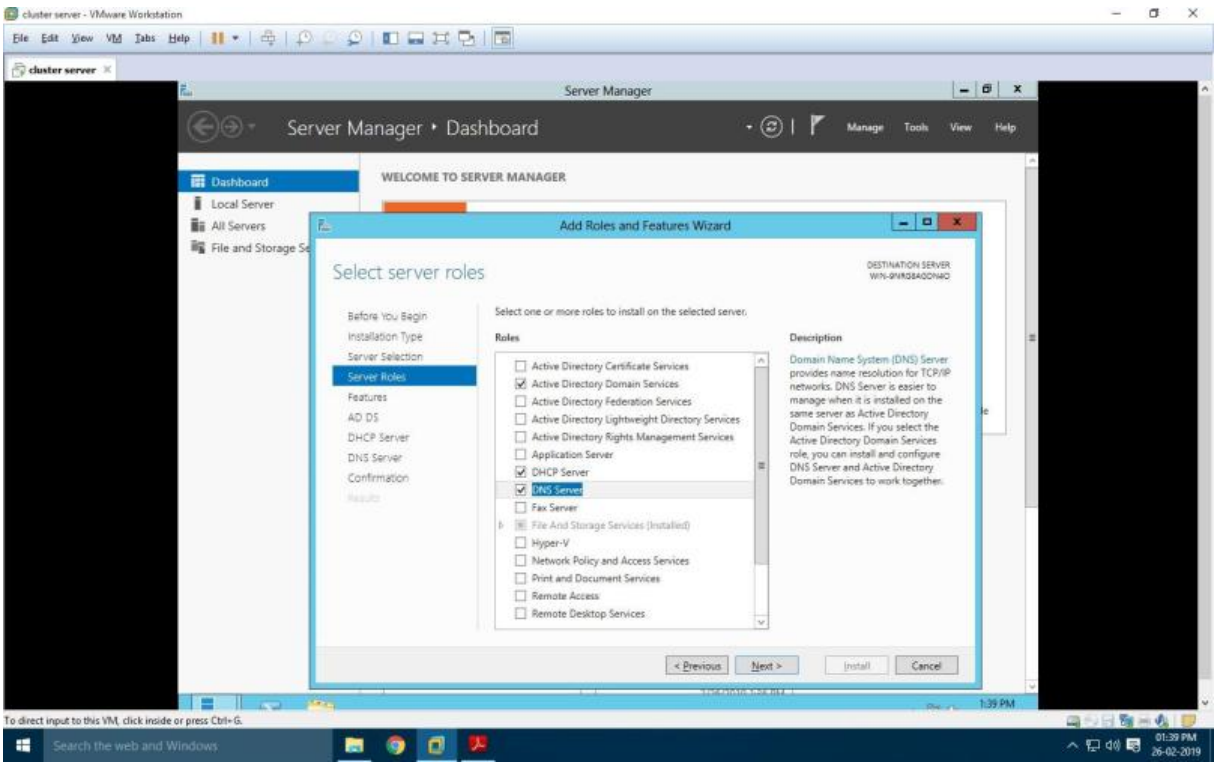
Under “select installation Type” select “Role-based or feature-based installation” and click “Next” button.



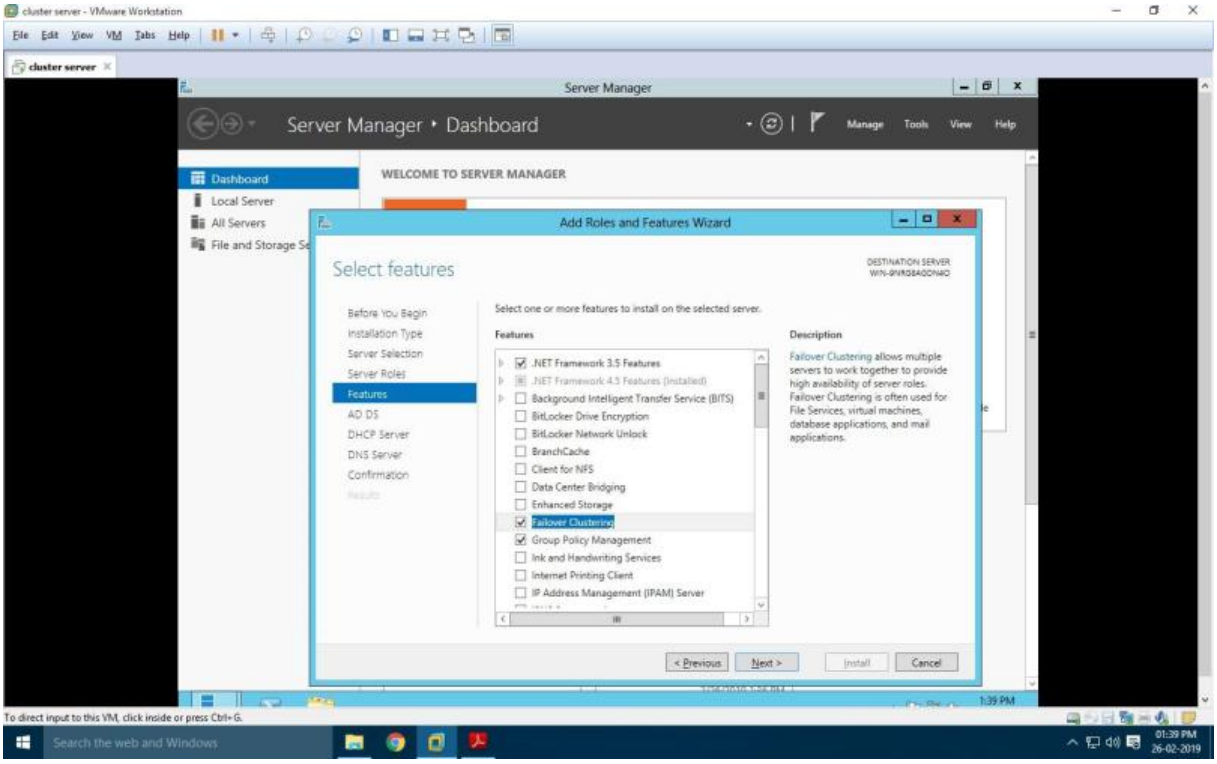
Under “select destination Server” select “Select a server from the server pool” option and select the server as shown in the screen below and click “Next”



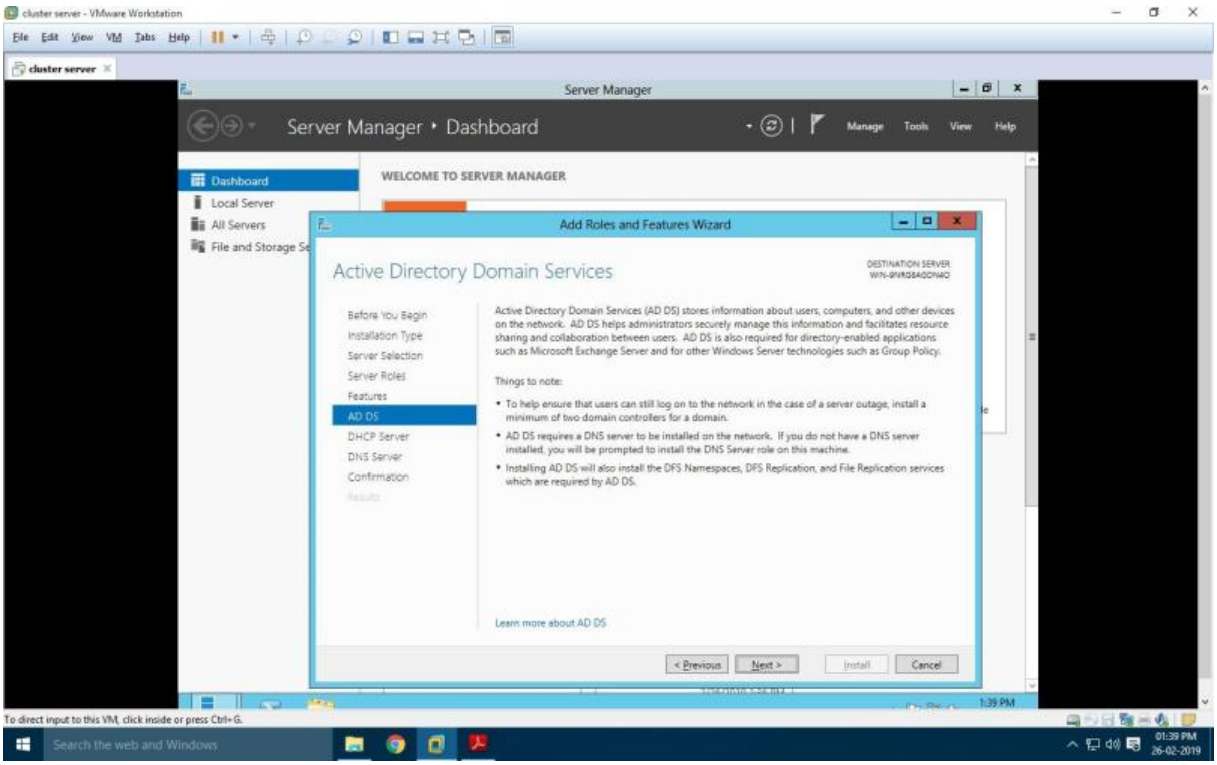
Click on “Active Directory Services”, “DNS” and “DNS” roles from the list of roles provided and click on “Add Features” button as shown in the screen. Add Features button will appear as you click on any of the roles.
After selecting the Role click “Next”.

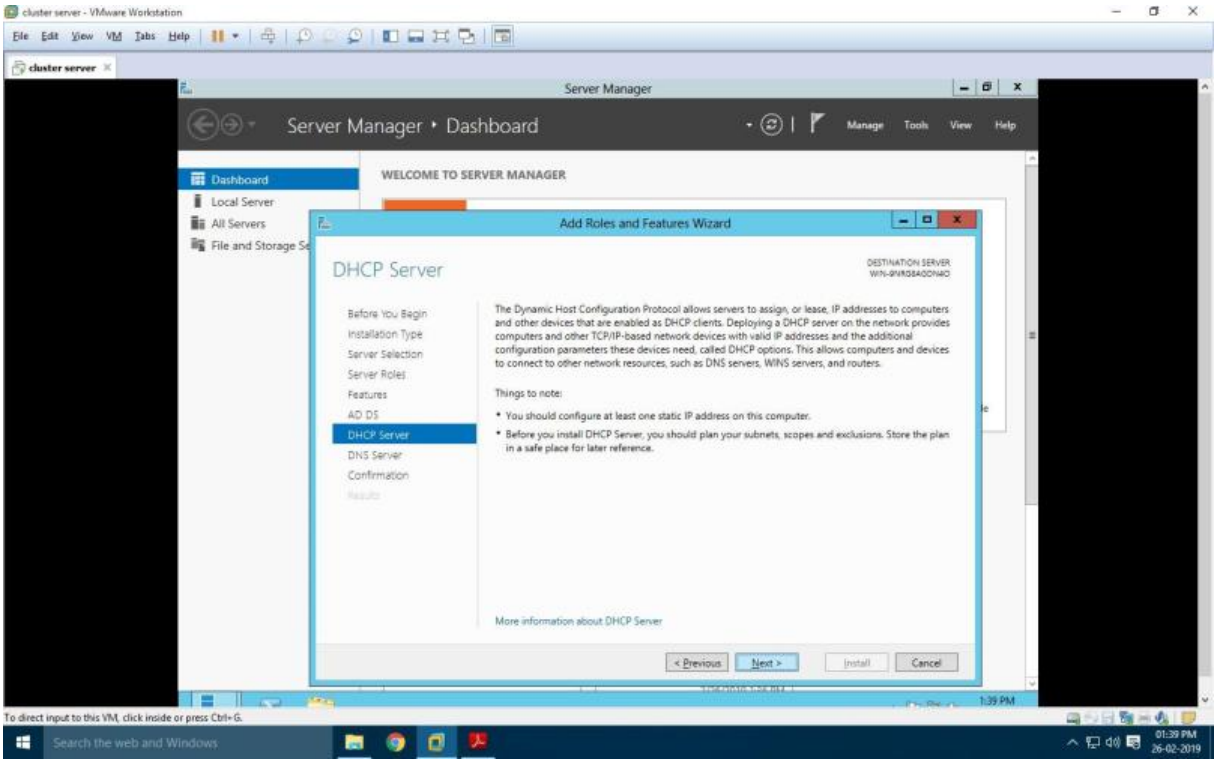


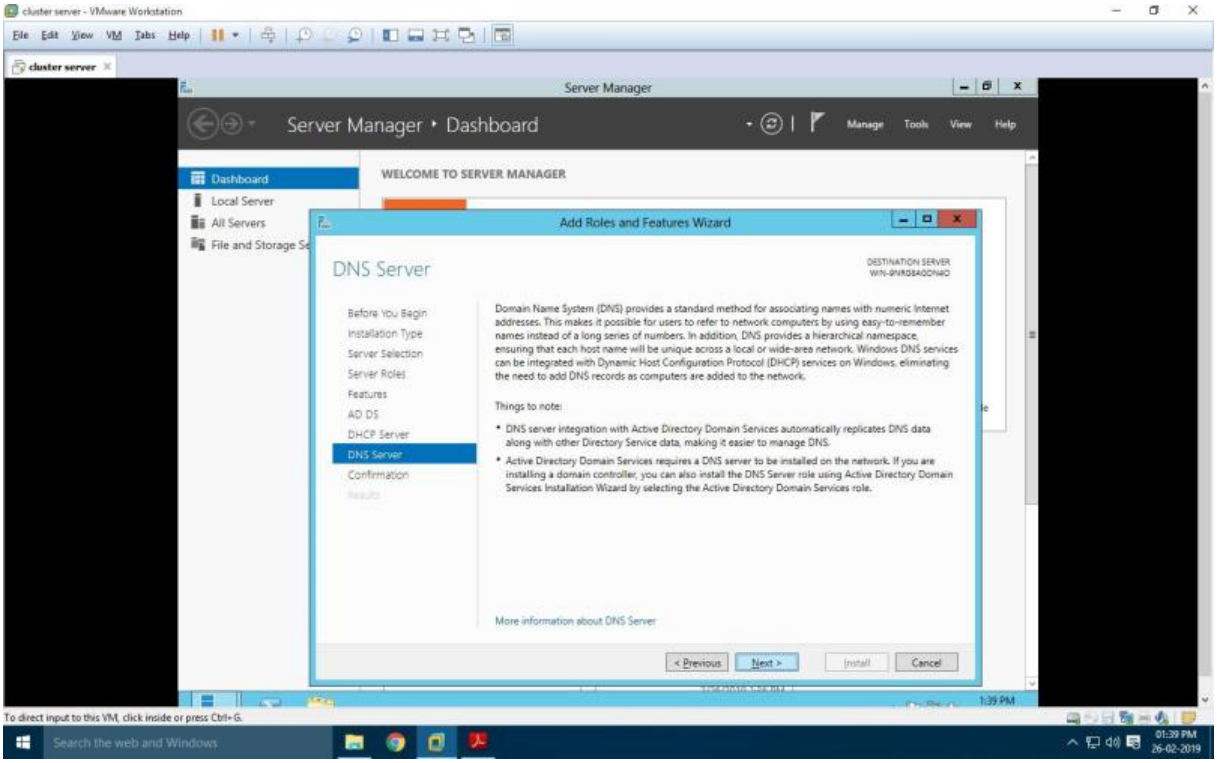
Under “Select Features” select “Failover Clustering” and “.NET Framework 3.5 Features” and click “Next”.



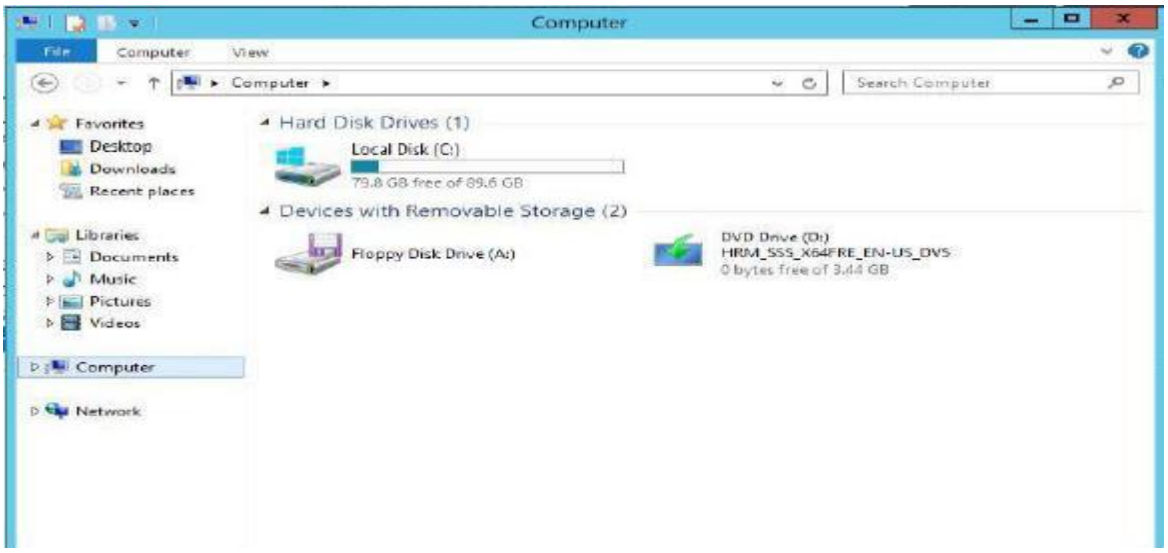
You will see the “Confirm Installation selections” then click on link “specify an alternate path”. As shown in below two screens.



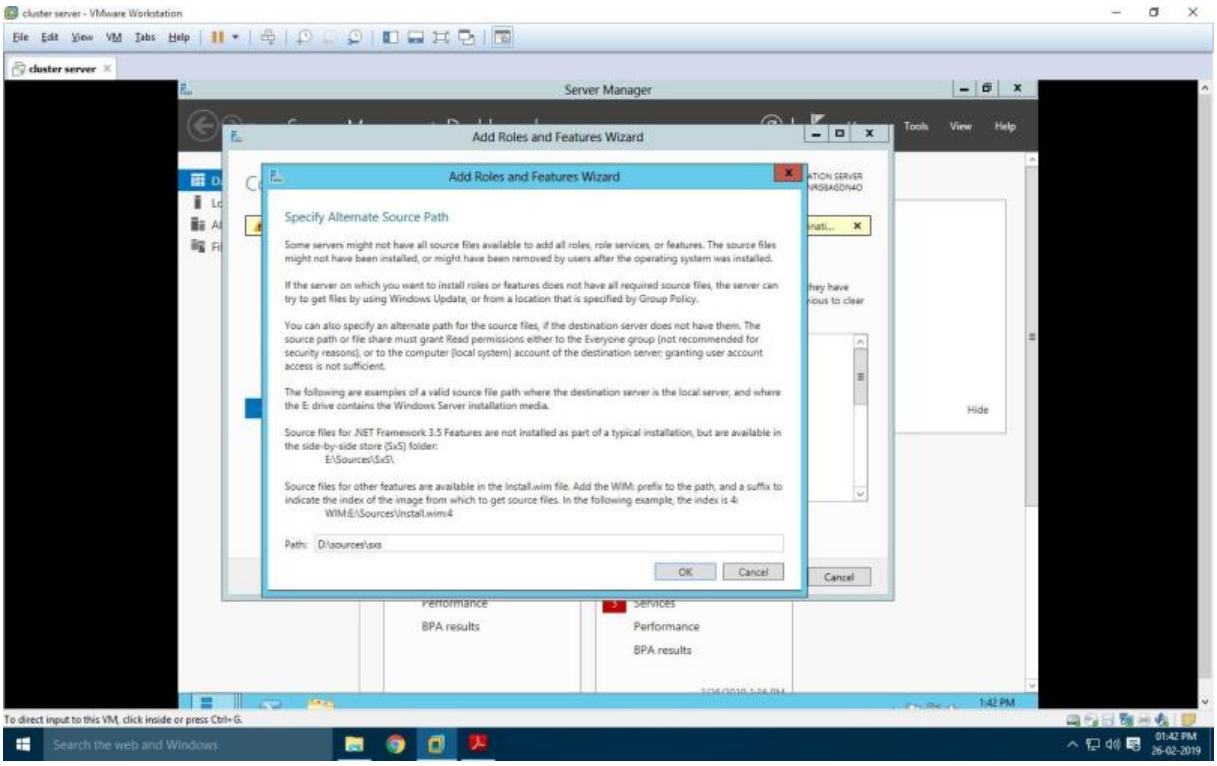

cluster server - VMware Workstation
File Edit View VM Tabs Help
cluster server
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storage Se
WELCOME TO SERVER MANAGER
Add Roles and Features Wizard
DHCP Server
DESTINATION SERVER
Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
DHCP Server
DNS Server
Confirmation
Results
The Dynamic Host Configuration Protocol allows servers to assign, or lease, IP addresses to computers and other devices that are enabled as DHCP clients. Deploying a DHCP server on the network provides computers and other TCP/IP-based network devices with valid IP addresses and the additional configuration parameters these devices need, called DHCP options. This allows computers and devices to connect to other network resources, such as DNS servers, WINS servers, and routers.
Things to note:
• You should configure at least one static IP address on this computer.
• Before you install DHCP Server, you should plan your subnets, scopes and exclusions. Store the plan in a safe place for later reference.
More information about DHCP Server
< Previous
Next >
Install
Cancel
1:39 PM
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
01:39 PM
26-02-2019


cluster server - VMware Workstation
File Edit View VM Tabs Help
cluster server
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storage Se
WELCOME TO SERVER MANAGER
Add Roles and Features Wizard
DNS Server
DESTINATION SERVER
Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
DHCP Server
DNS Server
Confirmation
Results
Domain Name System (DNS) provides a standard method for associating names with numeric Internet addresses. This makes it possible for users to refer to network computers by using easy-to-remember names instead of a long series of numbers. In addition, DNS provides a hierarchical namespace, ensuring that each host name will be unique across a local or wide-area network. Windows DNS services can be integrated with Dynamic Host Configuration Protocol (DHCP) services on Windows, eliminating the need to add DNS records as computers are added to the network.
Things to note:
• DNS server integration with Active Directory Domain Services automatically replicates DNS data along with other Directory Service data, making it easier to manage DNS.
• Active Directory Domain Services requires a DNS server to be installed on the network. If you are installing a domain controller, you can also install the DNS Server role using Active Directory Domain Services Installation Wizard by selecting the Active Directory Domain Services role.
More information about DNS Server
< Previous
Next >
Install
Cancel
1:39 PM
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
01:39 PM
26-02-2019

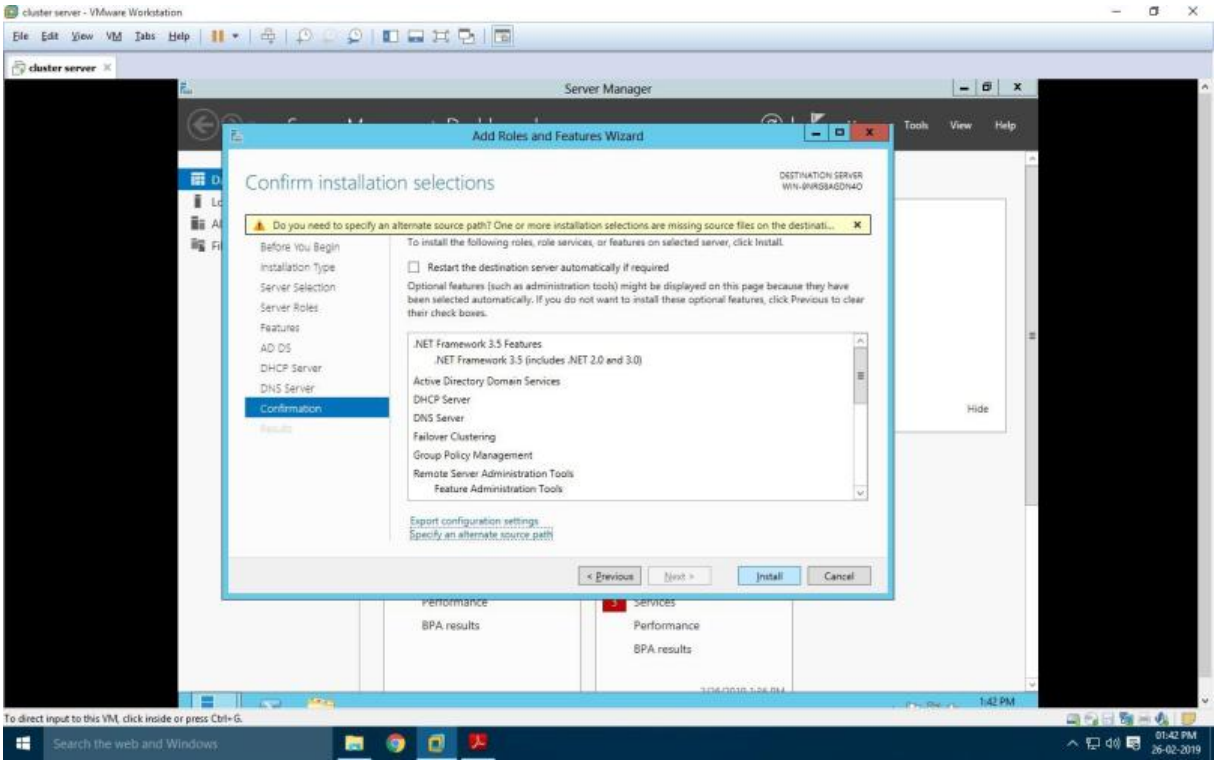
Now, For path specification Go to menu VM->use Iso image file of windows server 2012->Ok Then, Go to File Explorer->Computer -> select the DVD->VIEW FILE-> SOURCES->SXS:



Paste the path Here,

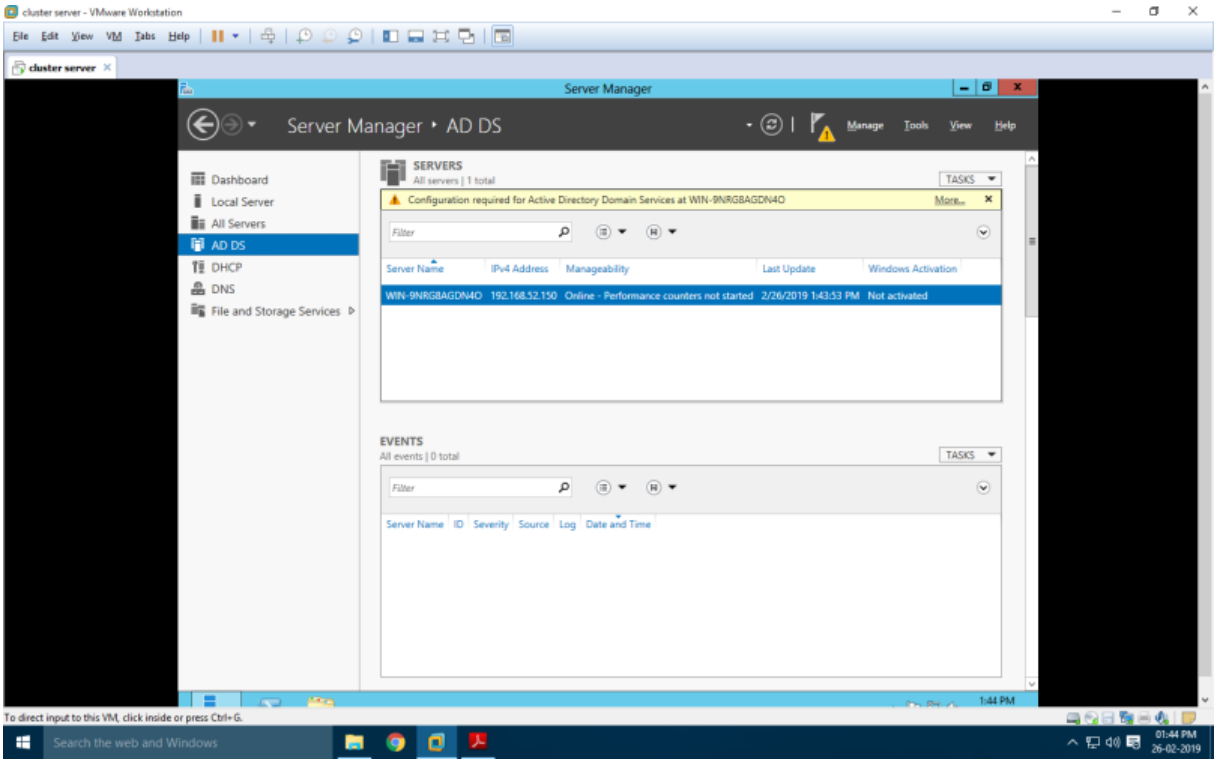


Now, Click on ok and Install button

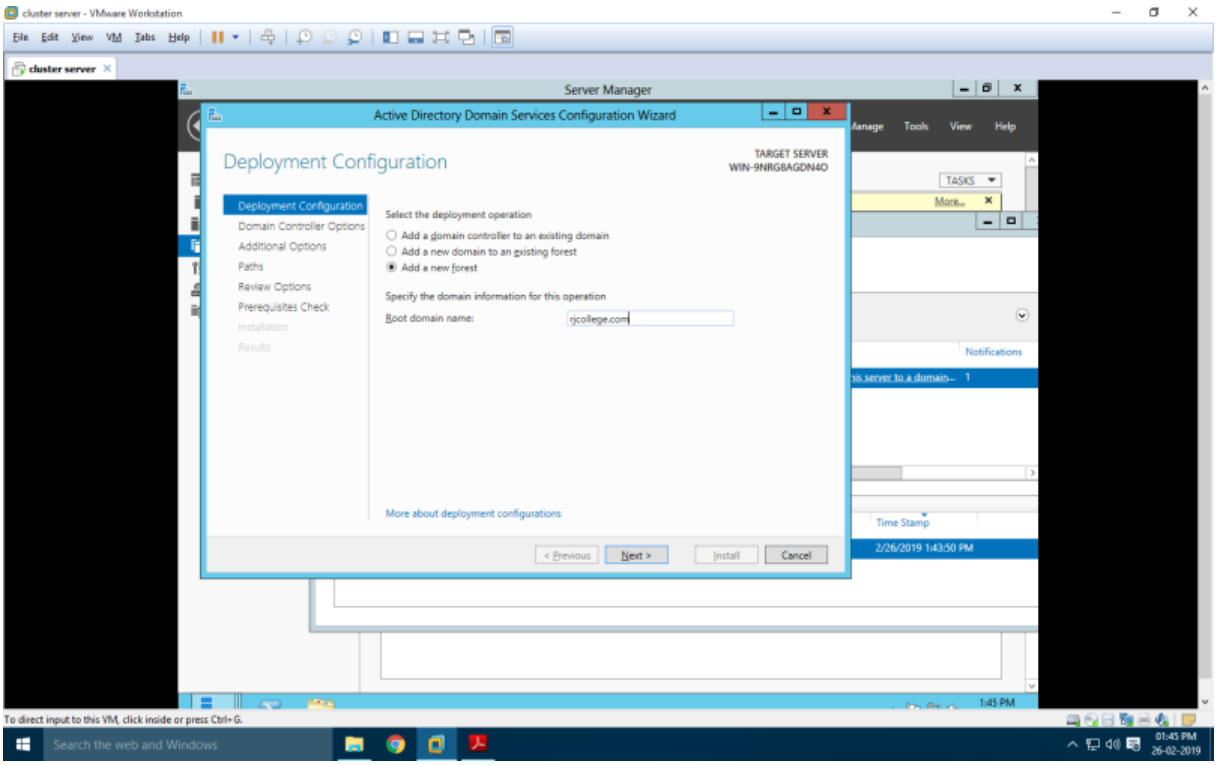


PROMOTING AS DOMAIN CONTROLLER

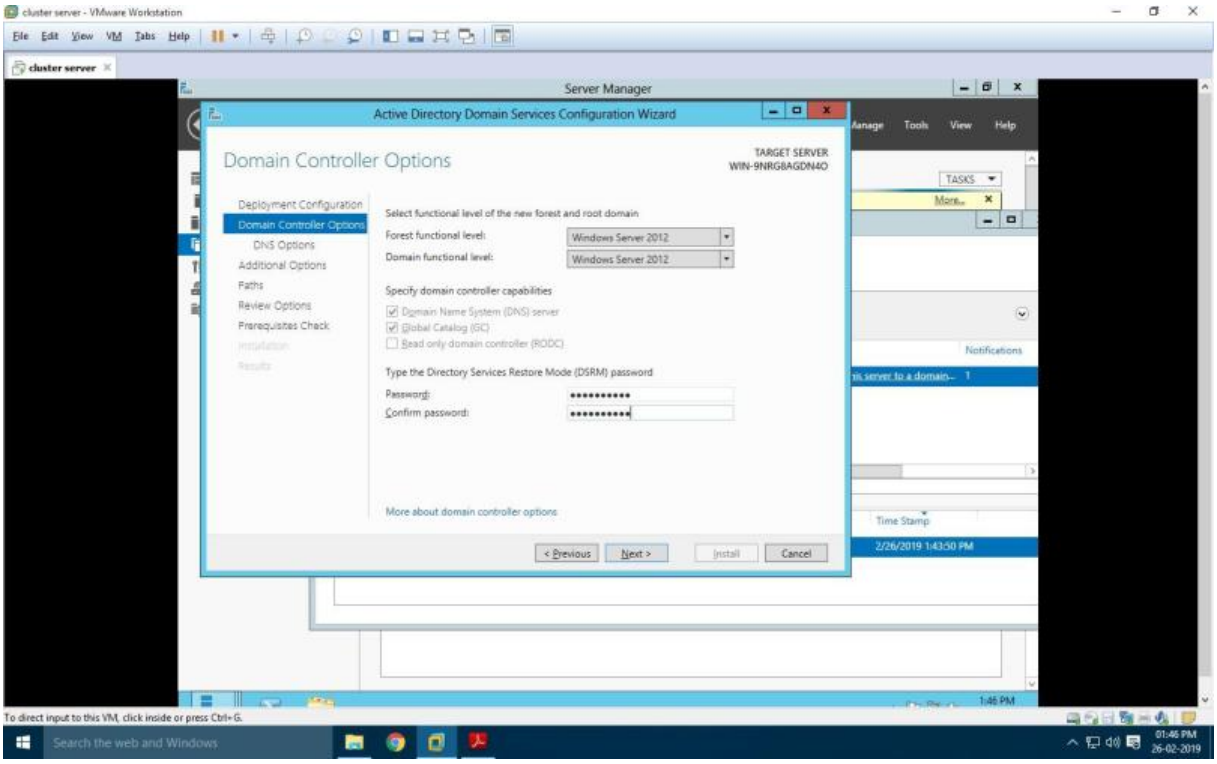
After installation Go to the “ADDS” shown on the left side in the server Manger Dashboard as shown in next screen and click on More, then Click on “Promote this server to a domain controller”.



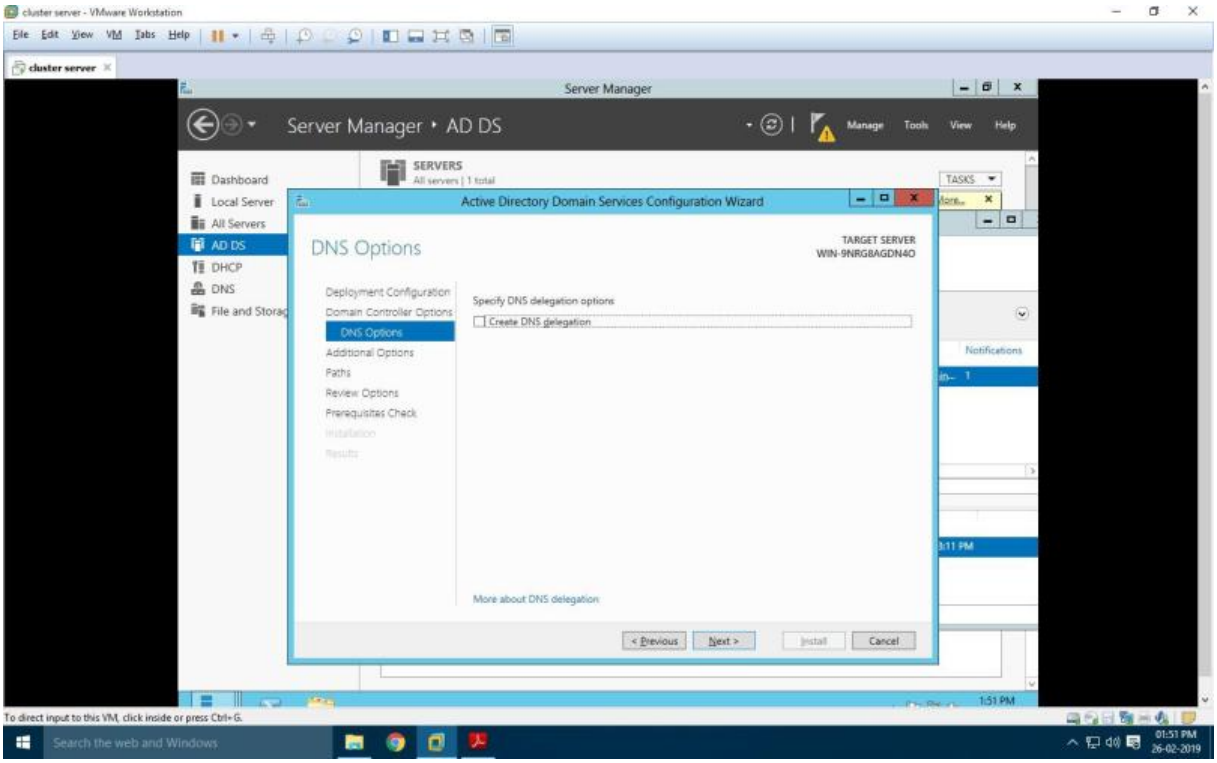
Choose “Add a new forest” option in the “Active Directory Domain services Configuration Wizard” window. Enter the Domain Name “rjcollege.com” as shown in the screen and click “Next”.



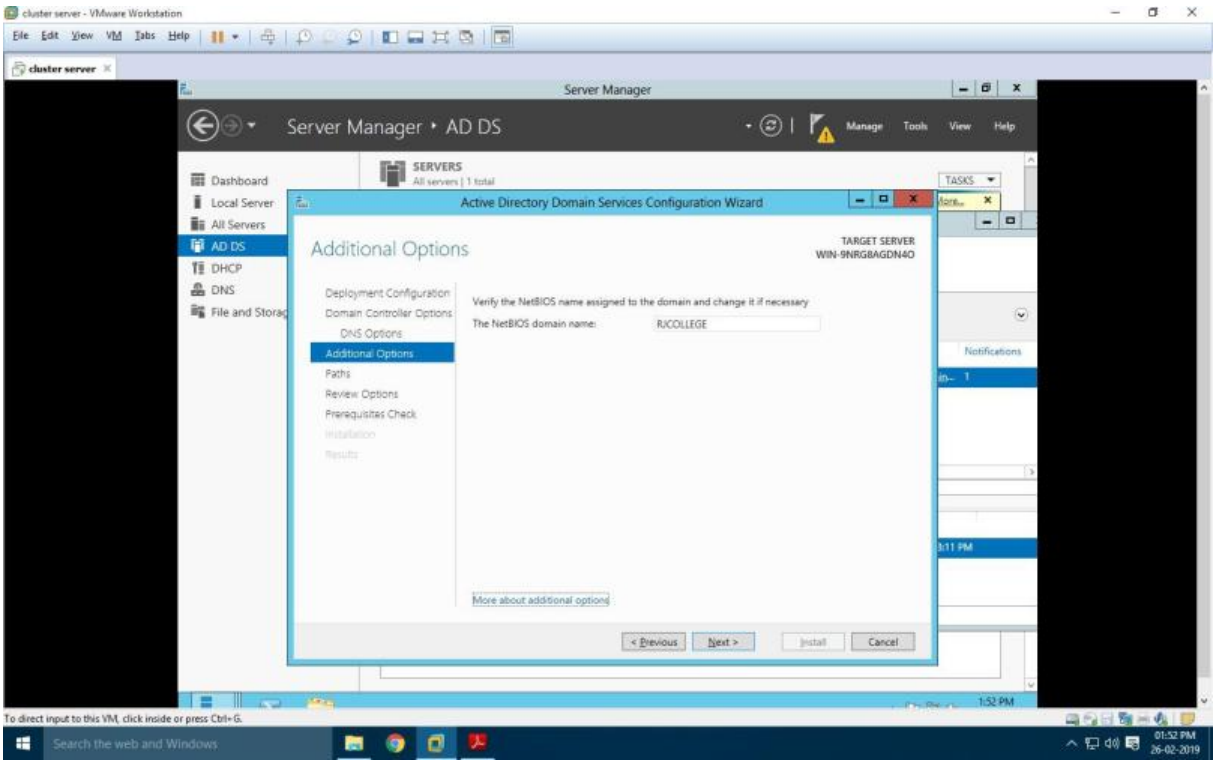
Under “Domain Controller Options” enter the alphanumeric password for the “Directory Services Restore Mode (DSRM) PASSWORD”. Preferably use the password given to the Administrators account.



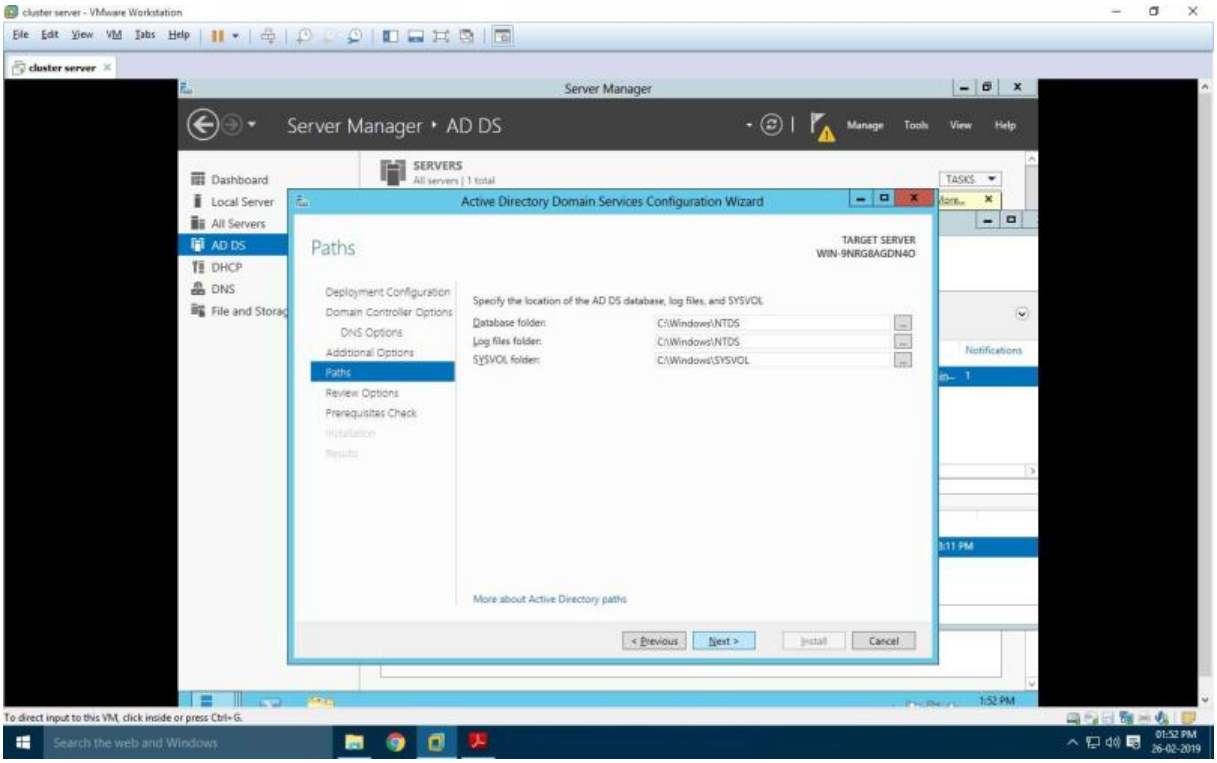
Click “Next”



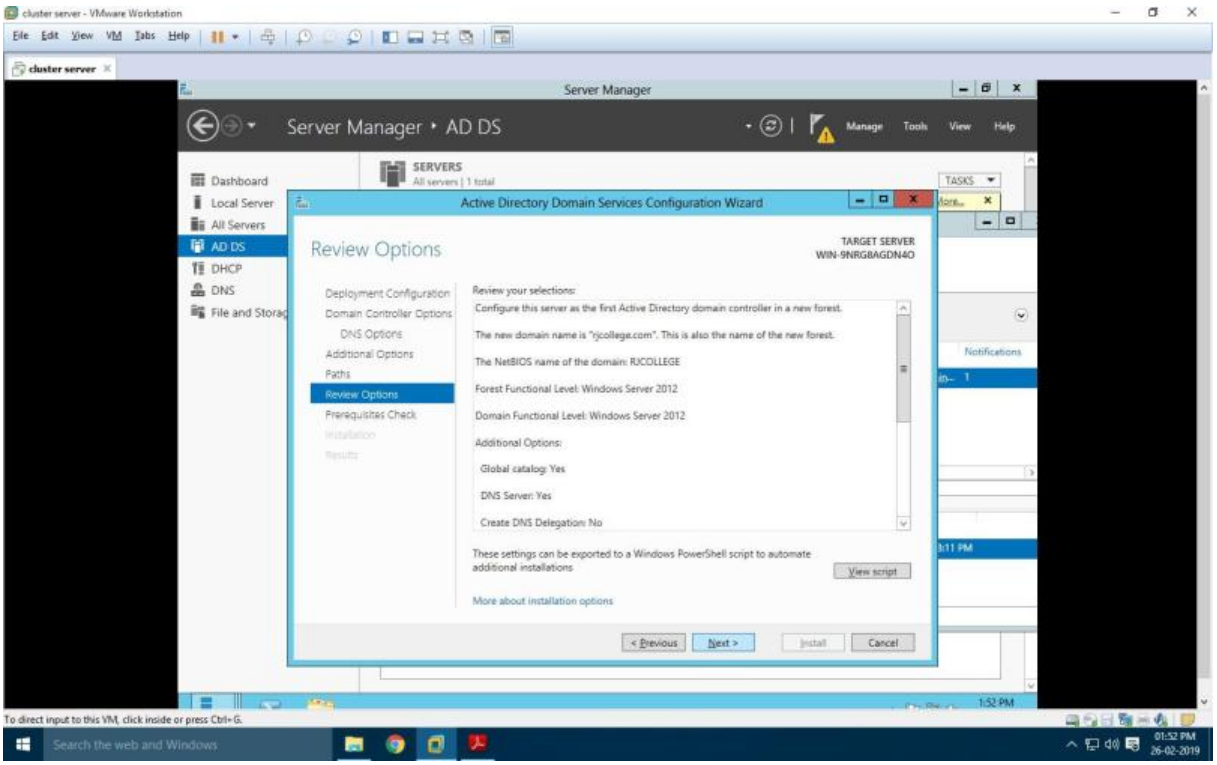
The NetBIOS Domain Name appears here automatically. Click “Next”.



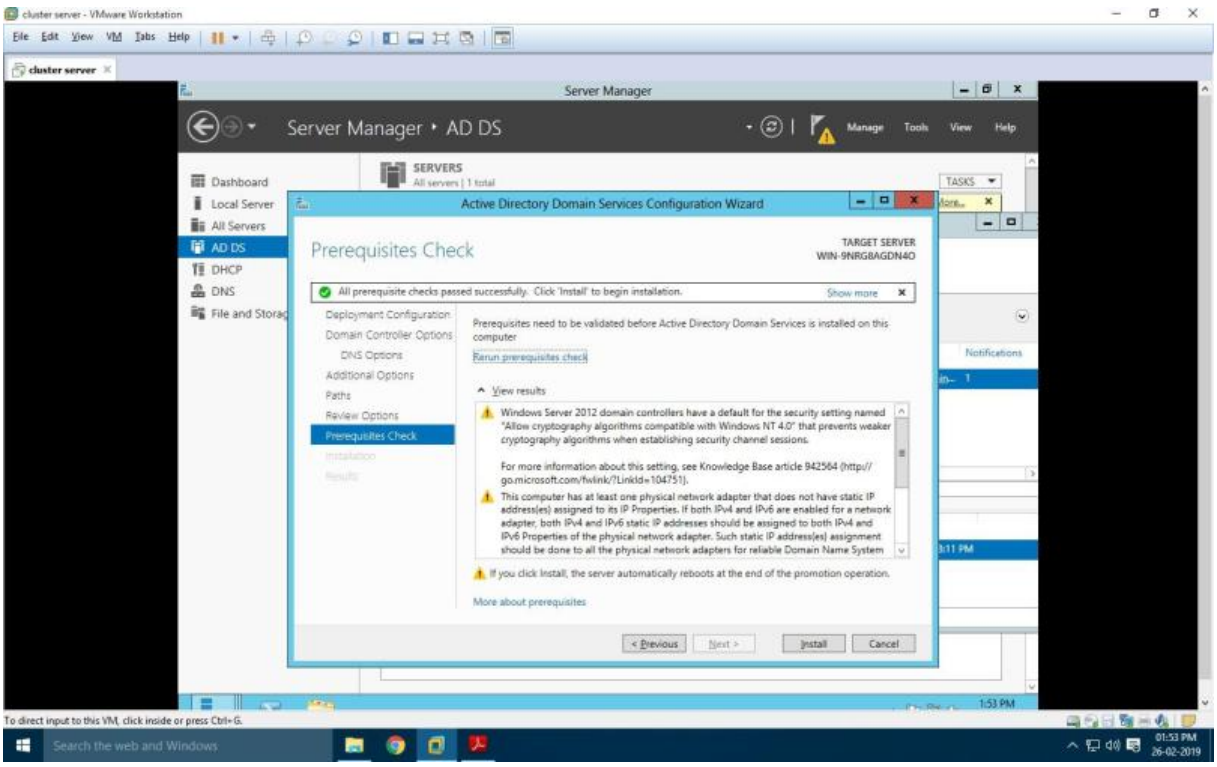
Click “Next”



Under “Review Options” it shows us whatever we have selected for the Domain Controller.

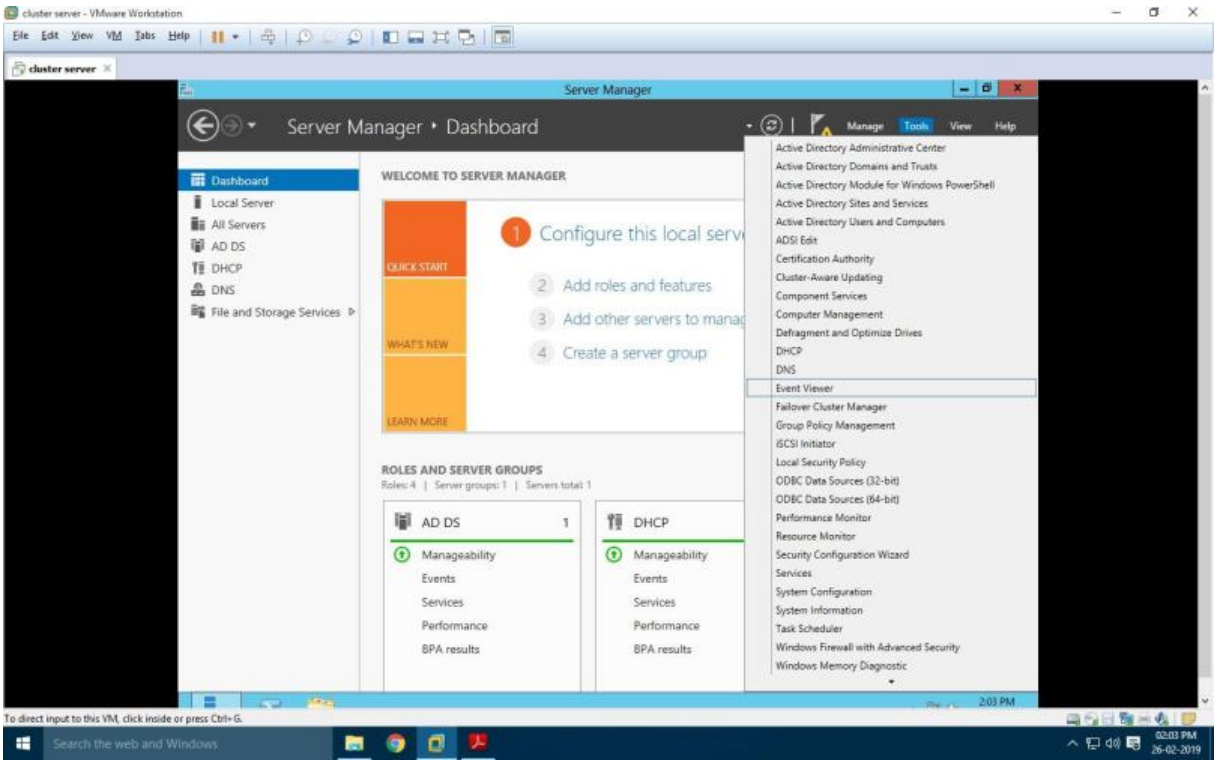


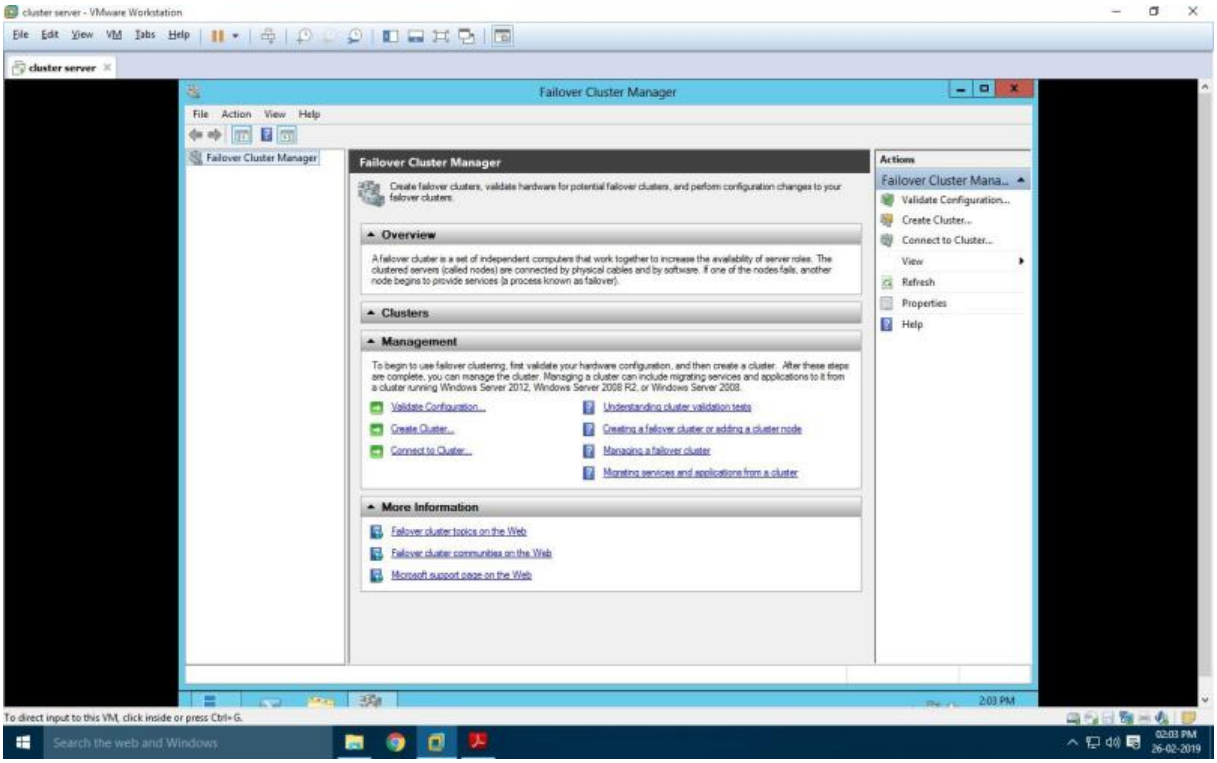
It checks for all the Prerequisites required to create a Domain Controller under “Prerequisites Check”. Click on “Install” button.



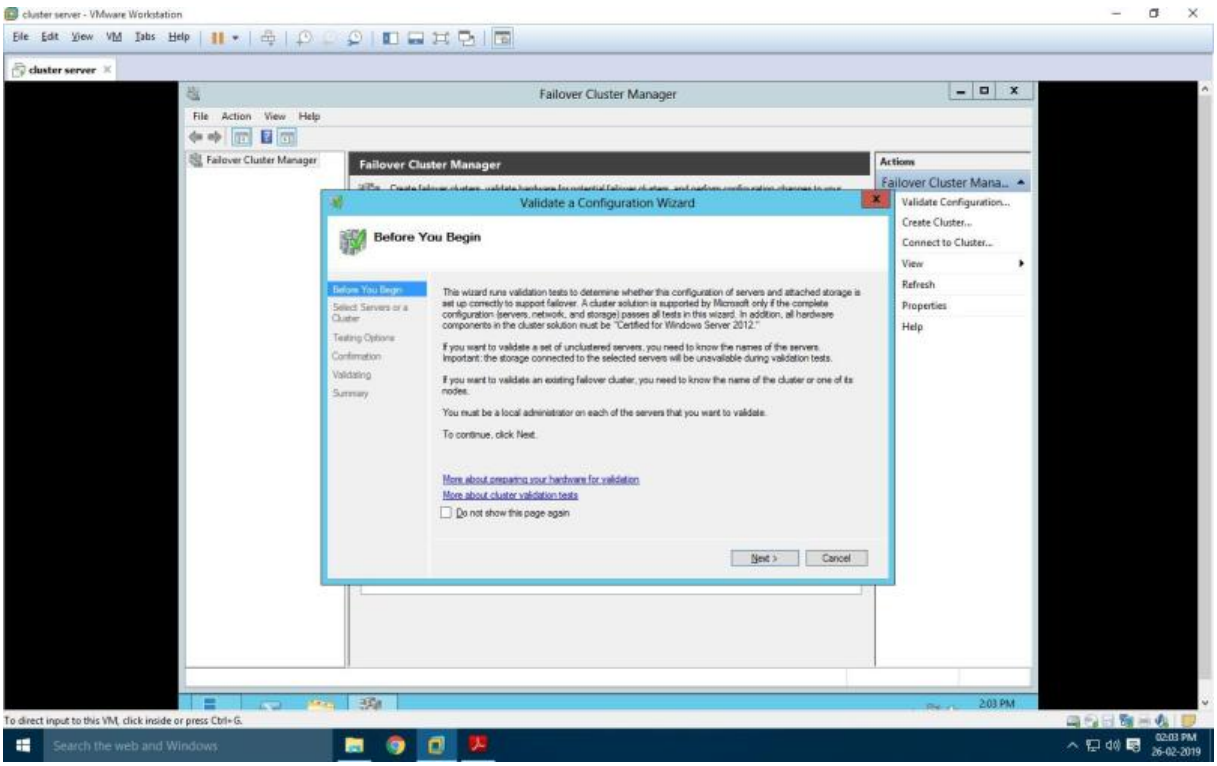
CREATING FAILOVER CLUSTER

Click on the “Failover Cluster Manger” under the tools menu to get the following screen.

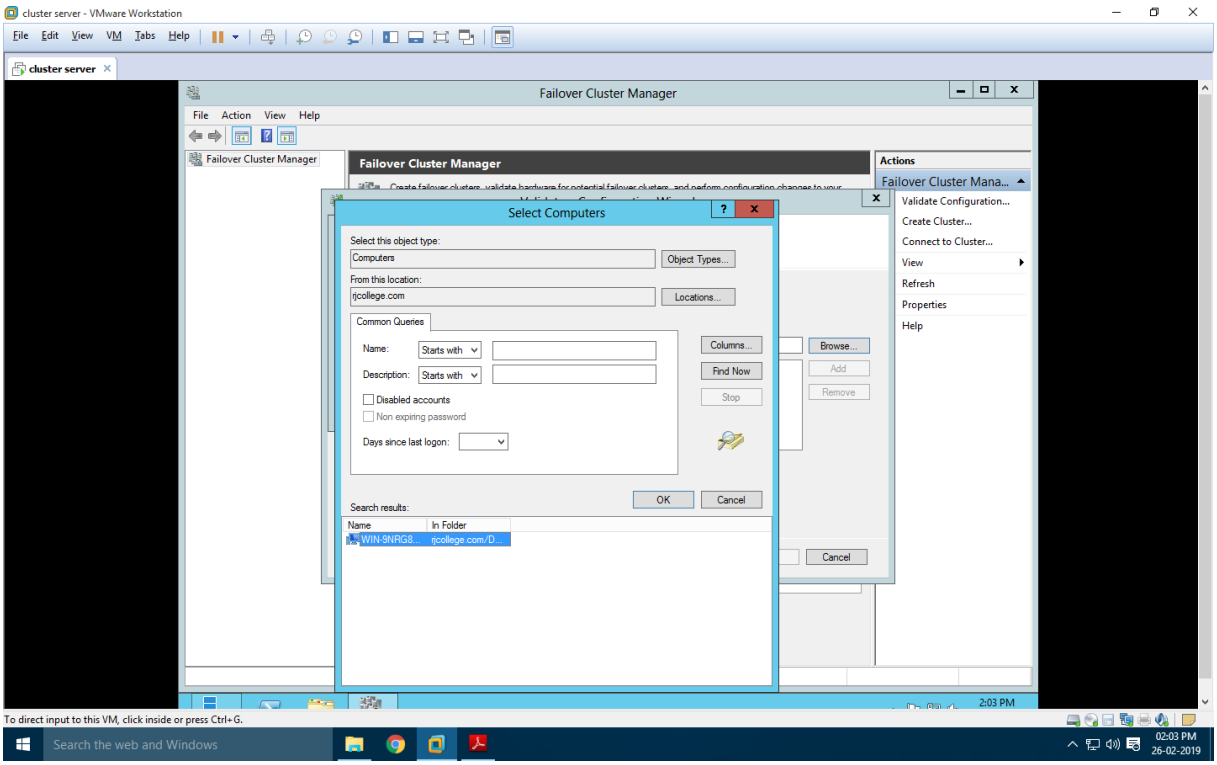




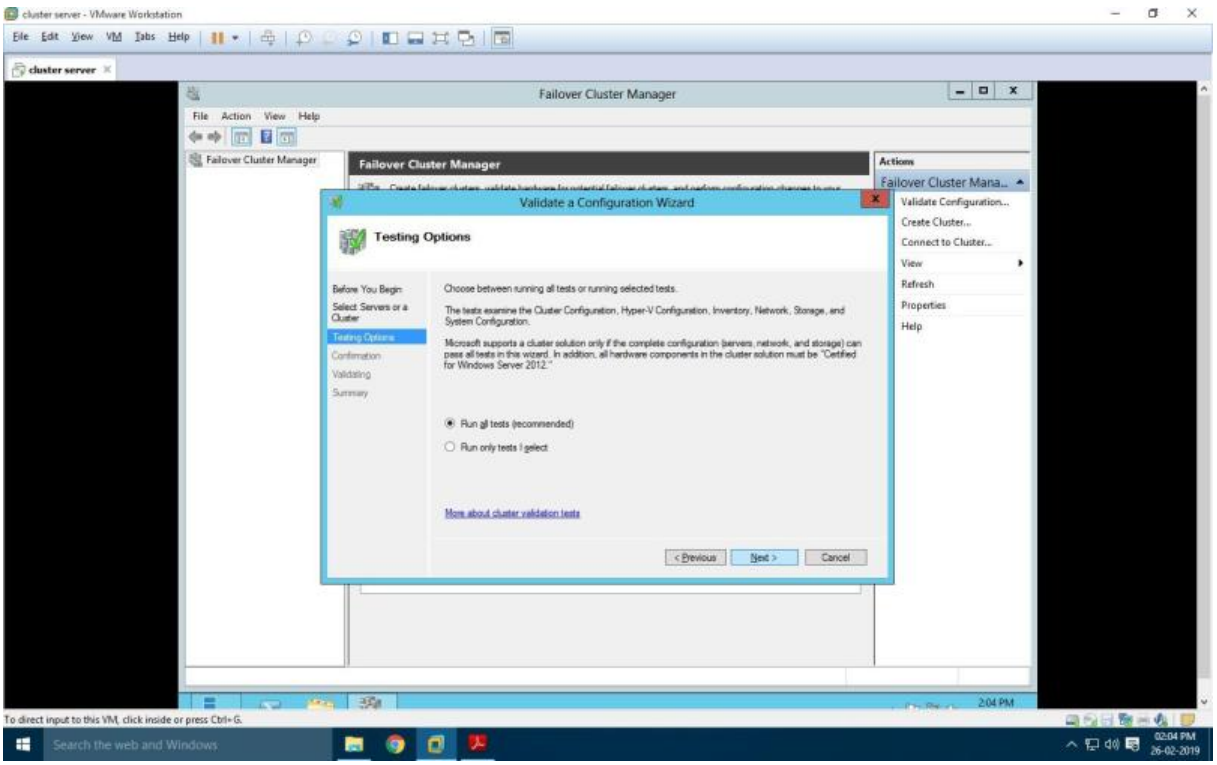
Click on “Validation Configuration” to open the “Validate a Configuration Wizard” by clicking on the “Validate Configuration” under the Management section at the bottom or right side of the screen. The nodes to be added must be validated prior to add in the cluster. Click “Next”.



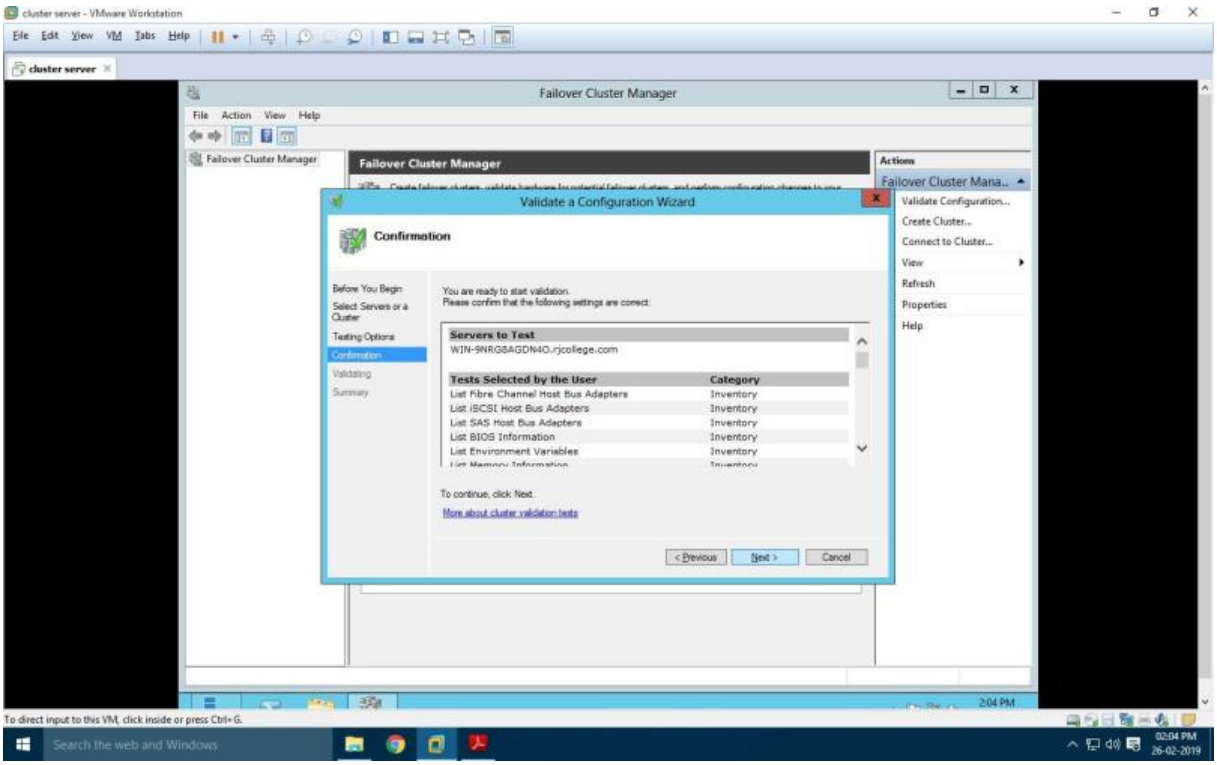
In this screen, click on Browse button and then Advanced for finding the domain node. As shown in below screens.



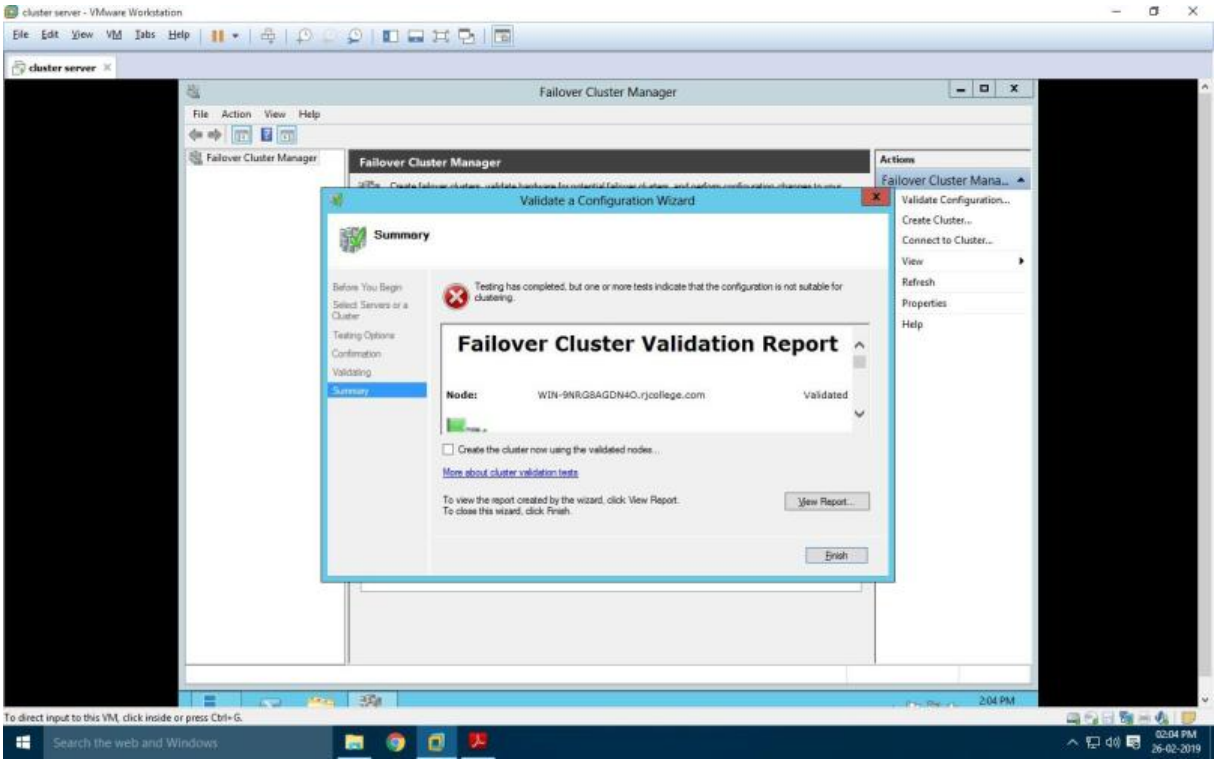
Click on **run all test**



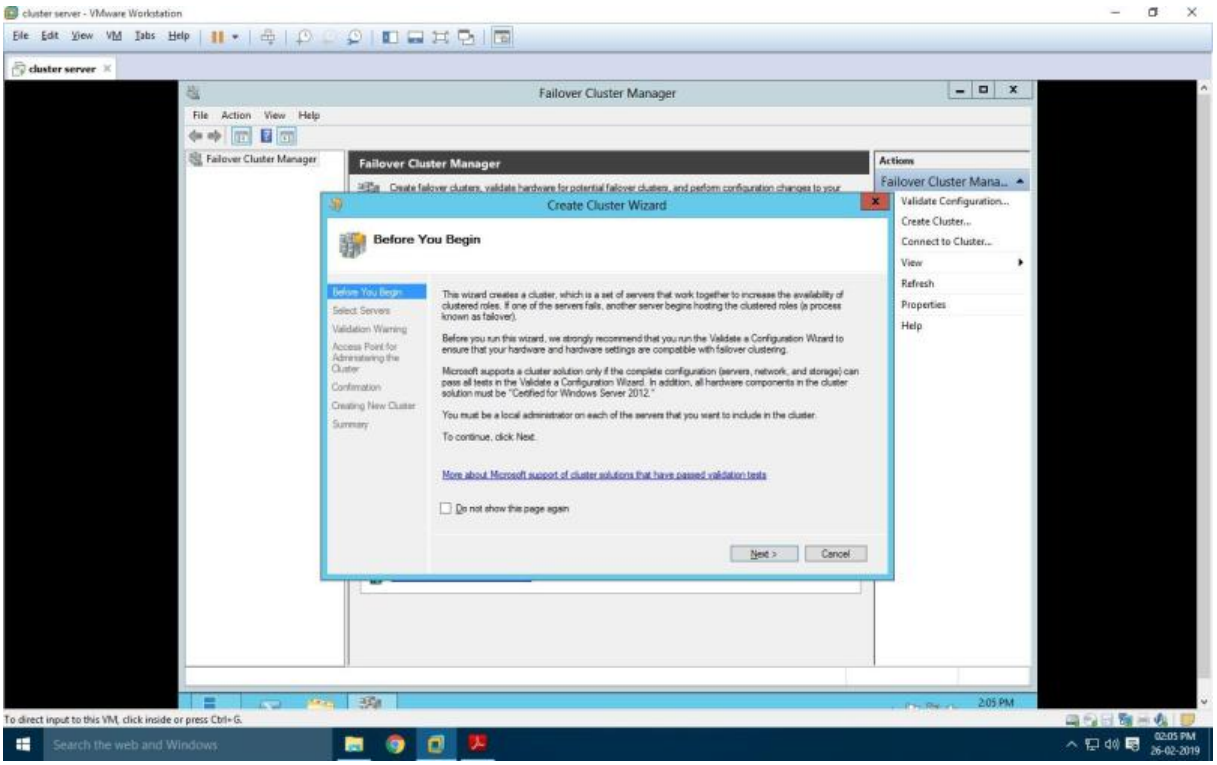
Choose “Run all the tests(recommended)” and click “Next” and then it will ask for the confirmation click “Next”. It will start all test validation.



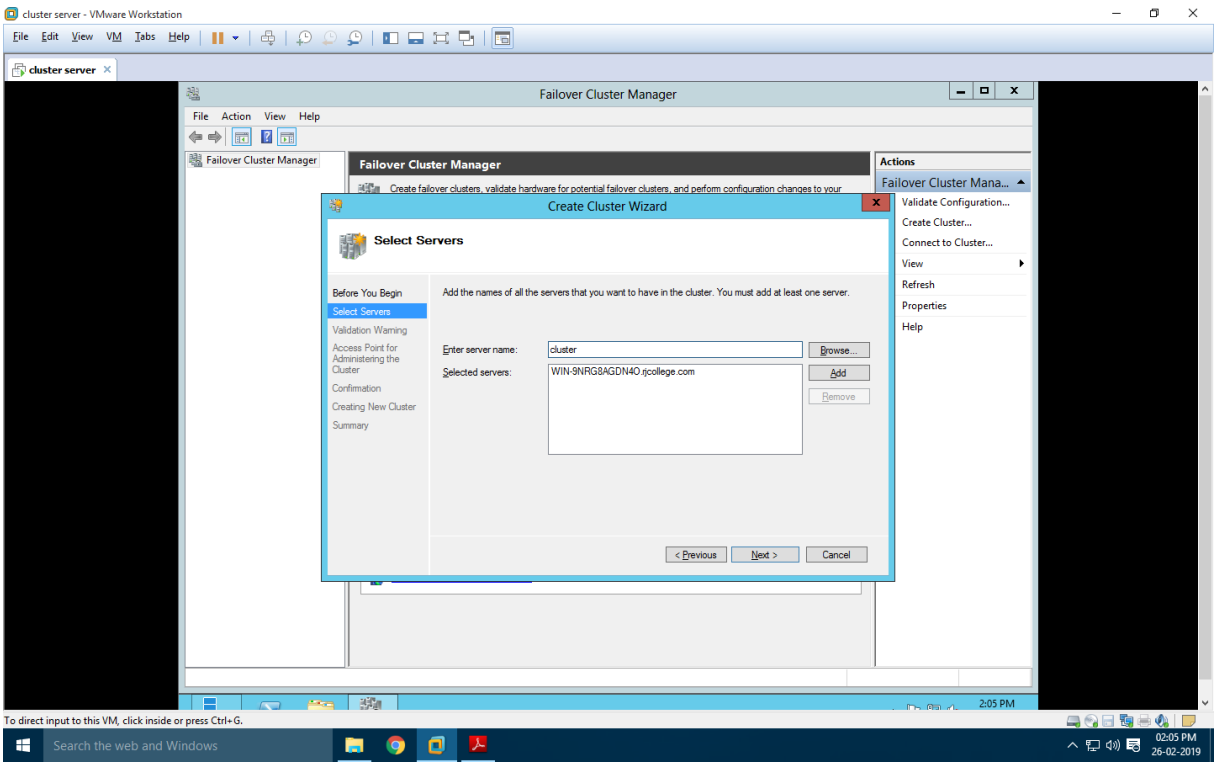
After completion it will display the summary report as shown below. If there are any errors can be seen here and you will not be allowed to create the cluster. As shown in the screen we can see that the nodes are validated. Click on finish.



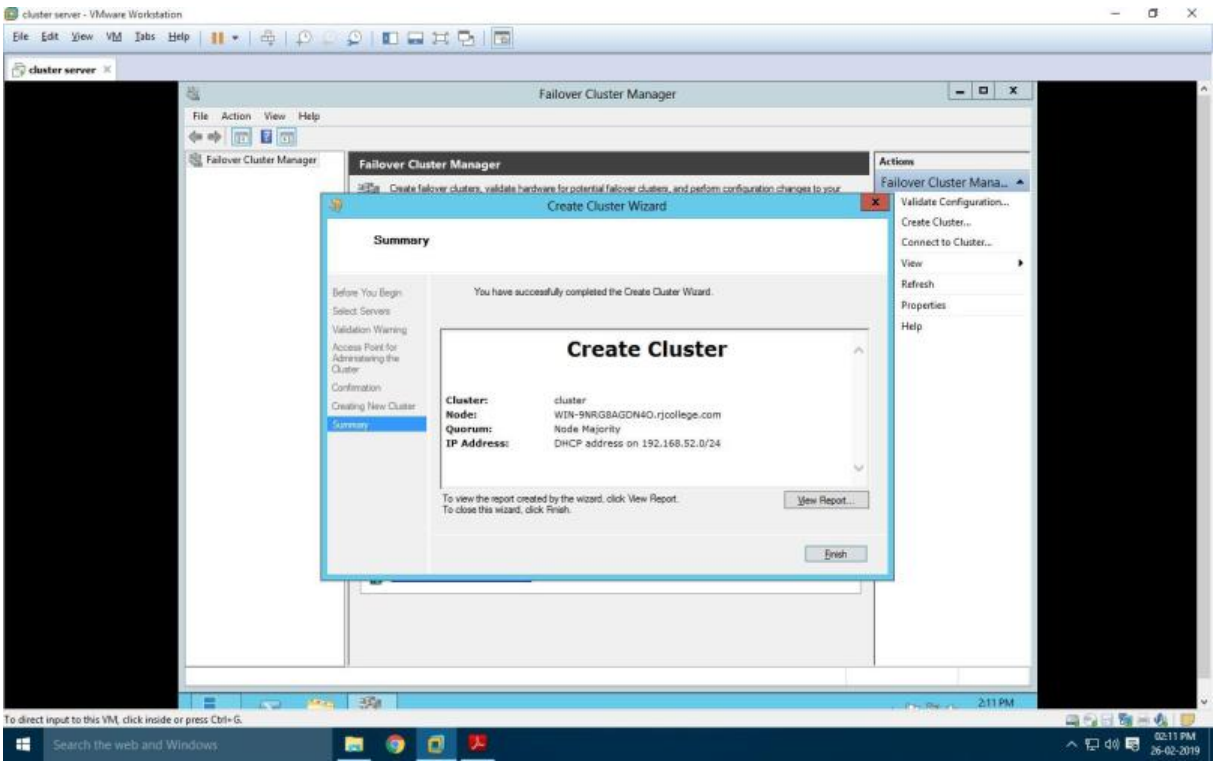
After validation completion you will create the “Create Cluster Wizard” click Next.



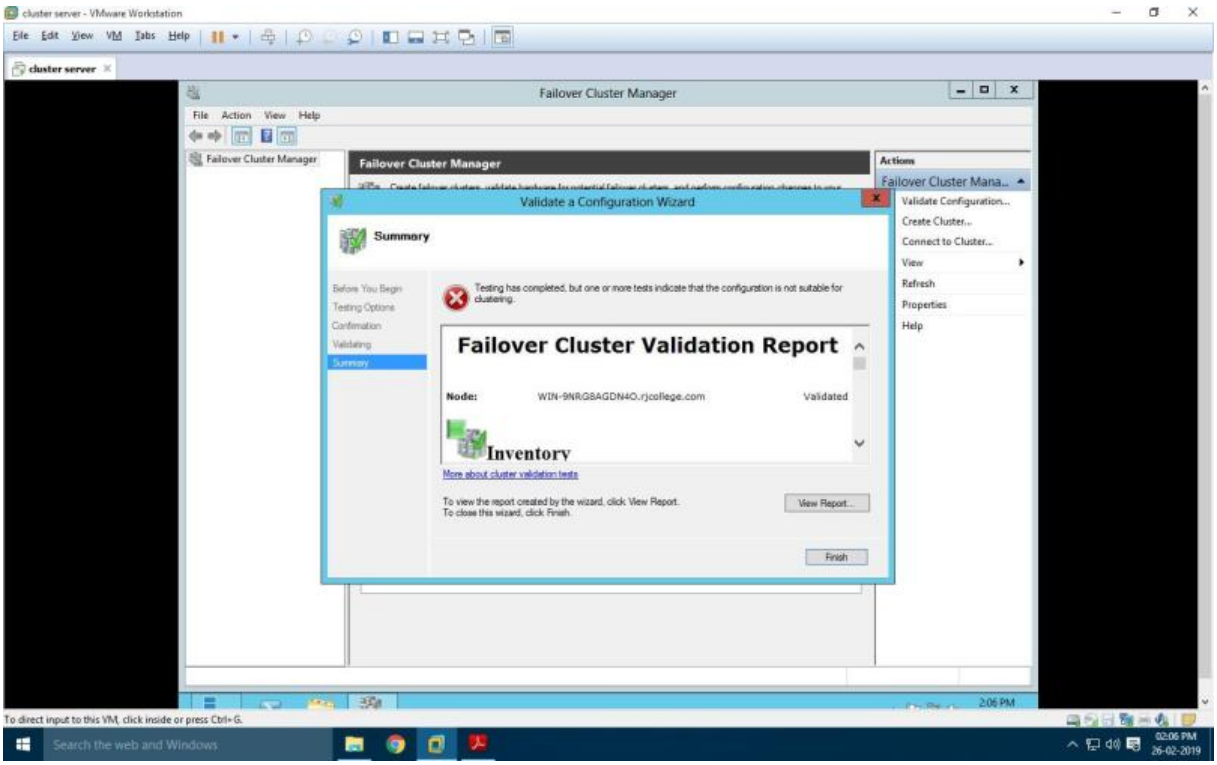
Specify the Cluster name. Cluster name here should be the NetBIOS name of the Domain Controller, so here it is RJC_Node. Click next



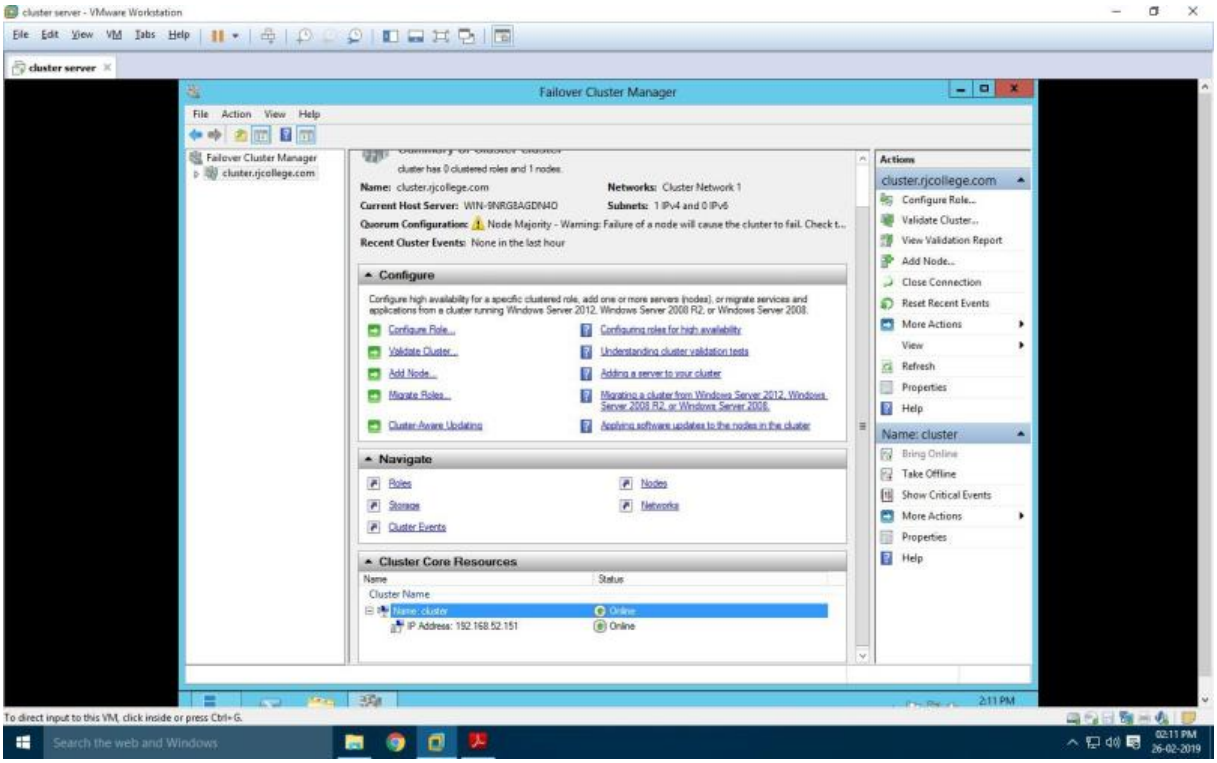
It will ask for the confirmation of cluster Creation. Click “Next”.



If the Cluster creation is successful you should see the following screen that shows a message “You have successfully completed the Create Cluster Wizard”

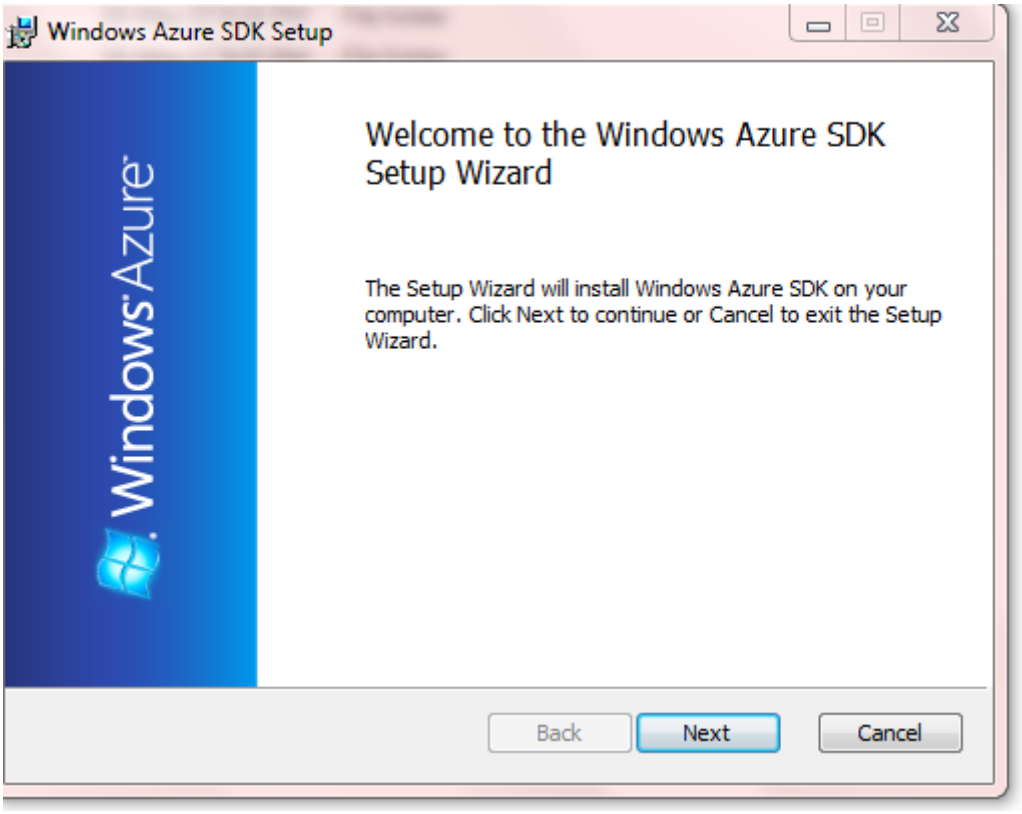


After cluster gets created you can see the cluster on the left side as shown in the screen below.

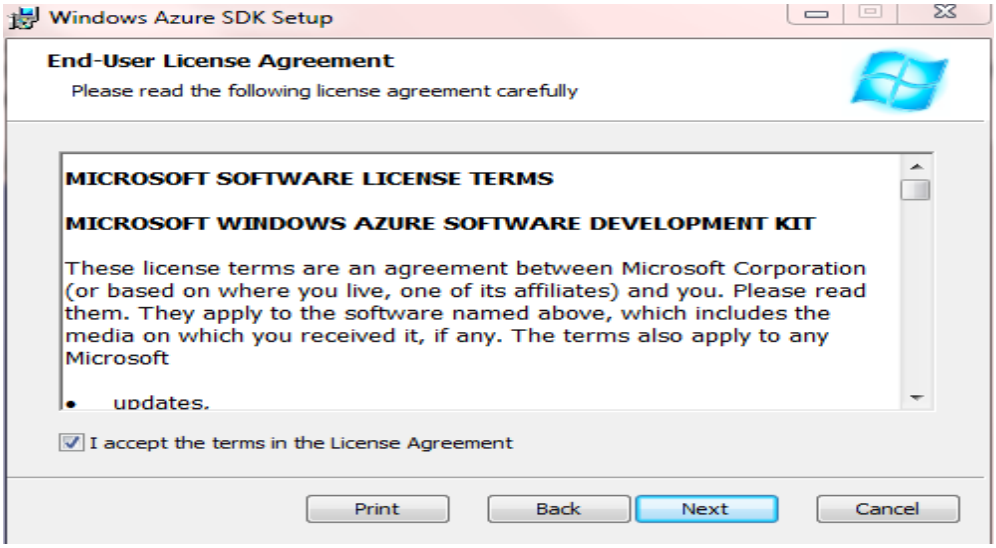

cluster server - VMware Workstation
File Edit View VM Tabs Help
cluster server
Failover Cluster Manager
File Action View Help
Failover Cluster Manager
cluster.rjcollege.com
cluster has 0 clustered roles and 1 nodes.
Name: cluster.rjcollege.com
Networks: Cluster Network 1
Current Host Server: WIN-9NRG8AGDN4O
Subnets: 1 IPv4 and 0 IPv6
Quorum Configuration: Node Majority - Warning: Failure of a node will cause the cluster to fail. Check t...
Recent Cluster Events: None in the last hour
Configure
Configure high availability for a specific clustered role, add one or more servers (nodes), or migrate services and applications from a cluster running Windows Server 2012, Windows Server 2008 R2, or Windows Server 2008.
Configure Role...
Validate Cluster...
Add Node...
Migrate Roles...
Cluster-Aware Updating
Configuring roles for high availability
Understanding cluster validation tests
Adding a server to your cluster
Migrating a cluster from Windows Server 2012, Windows Server 2008 R2, or Windows Server 2008
Applying software updates to the nodes in the cluster
Navigate
Roles
Nodes
Storage
Networks
Cluster Events
Cluster Core Resources
Name
Status
Cluster Name
Name: cluster
Online
IP Address: 192.168.52.151
Online
Actions
cluster.rjcollege.com
Configure Role...
Validate Cluster...
View Validation Report
Add Node...
Close Connection
Reset Recent Events
More Actions
View
Refresh
Properties
Help
Name: cluster
Bring Online
Take Offline
Show Critical Events
More Actions
Properties
Help
2:11 PM
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
02:11 PM
26-02-2019

PRACTICAL: 2
DEVELOPING APPLICATION FOR WINDOWS AZURE

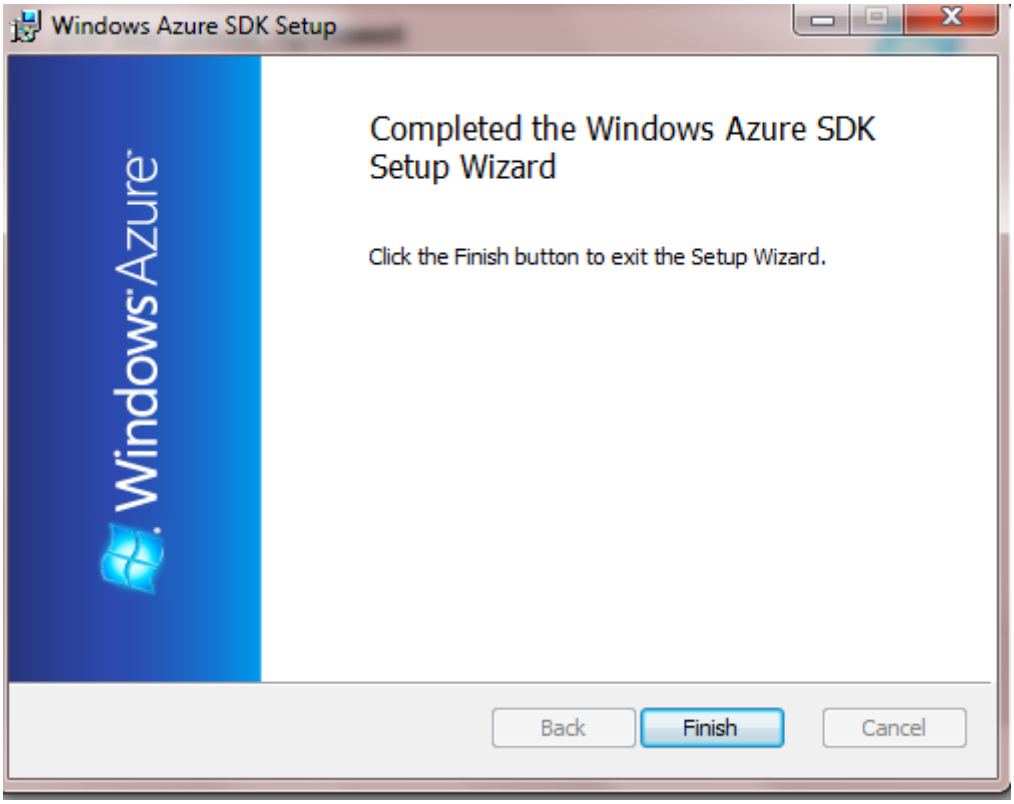
To develop an application for Windows Azure on Visual Studio install the **"Microsoft Azure SDK for .NET (VS 2010) – 2.8.2.1"**



Accept the license and Click on Next.



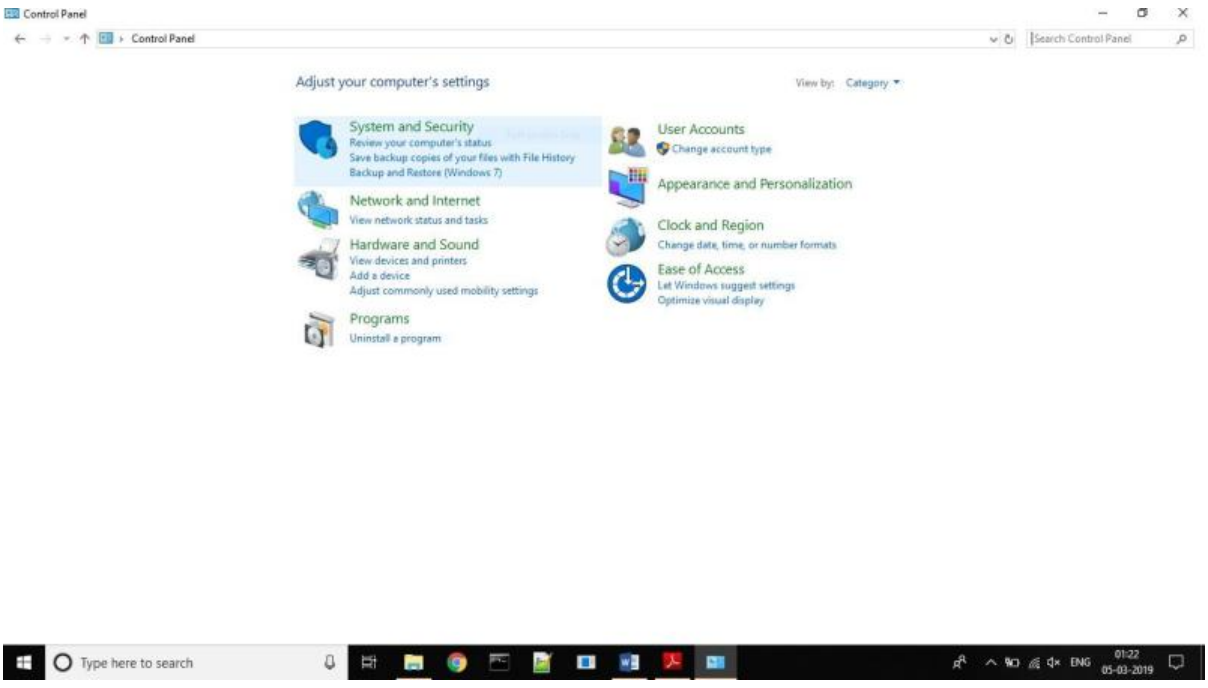
Click on Finish



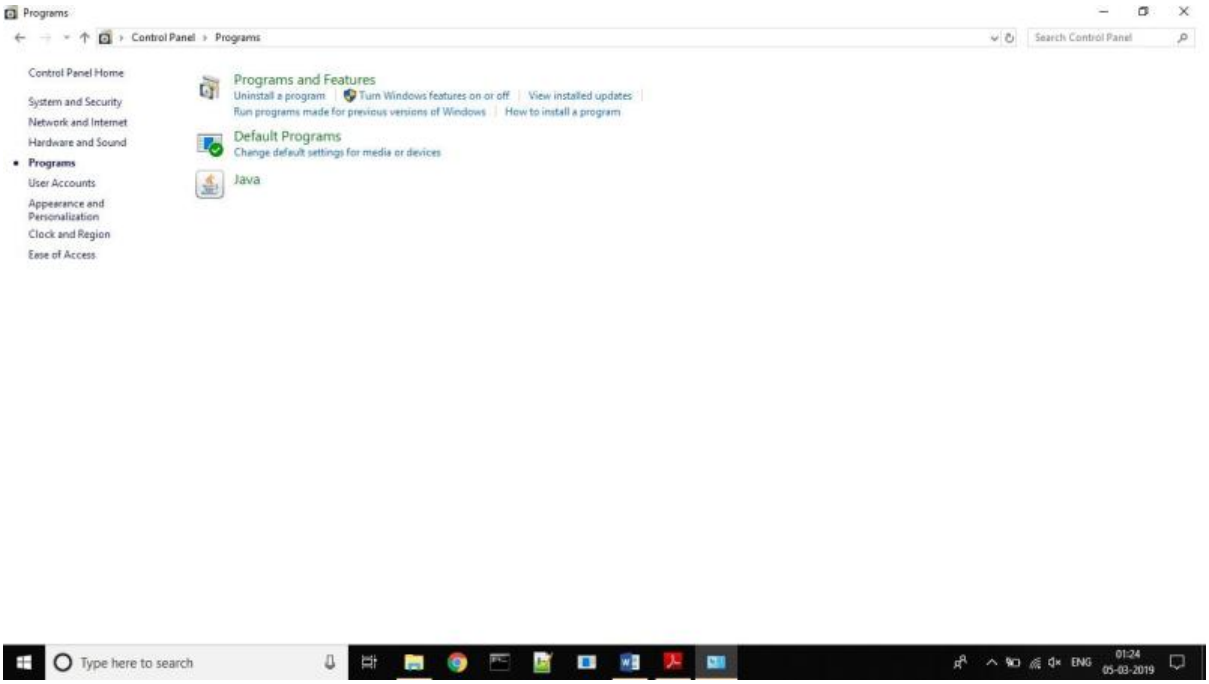
Step2:

Turn windows Features ON or OFF:

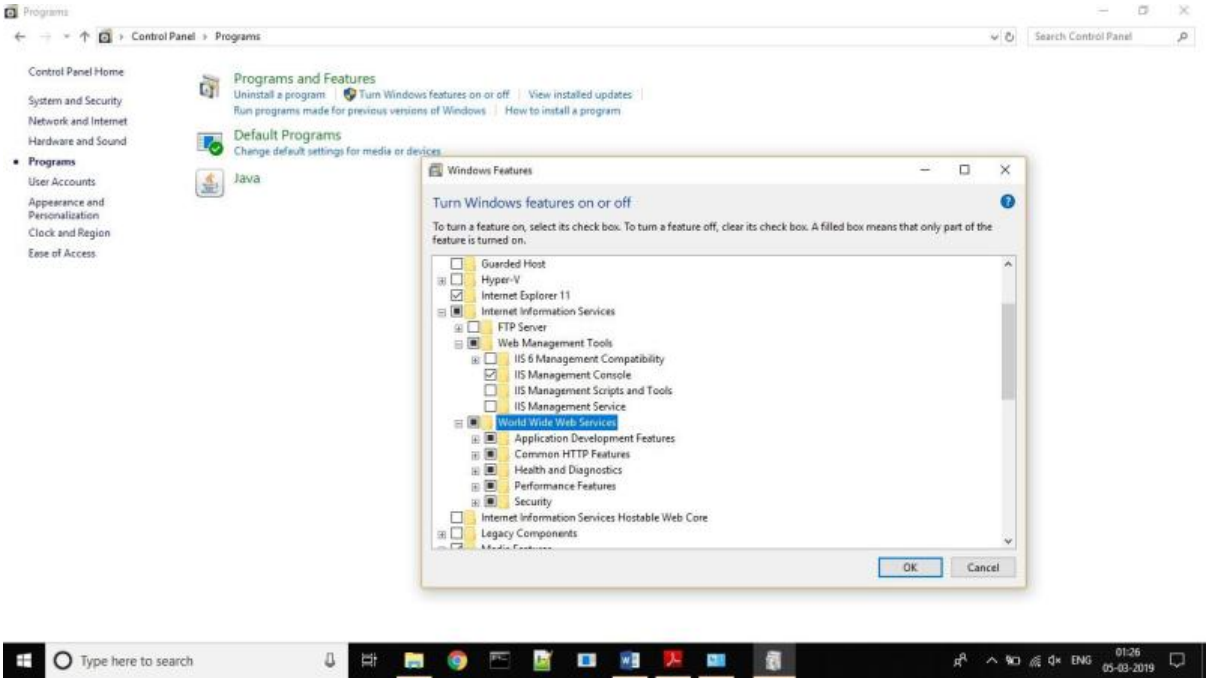
Go to Control panel and click on programs.



Turn Windows features on or off.

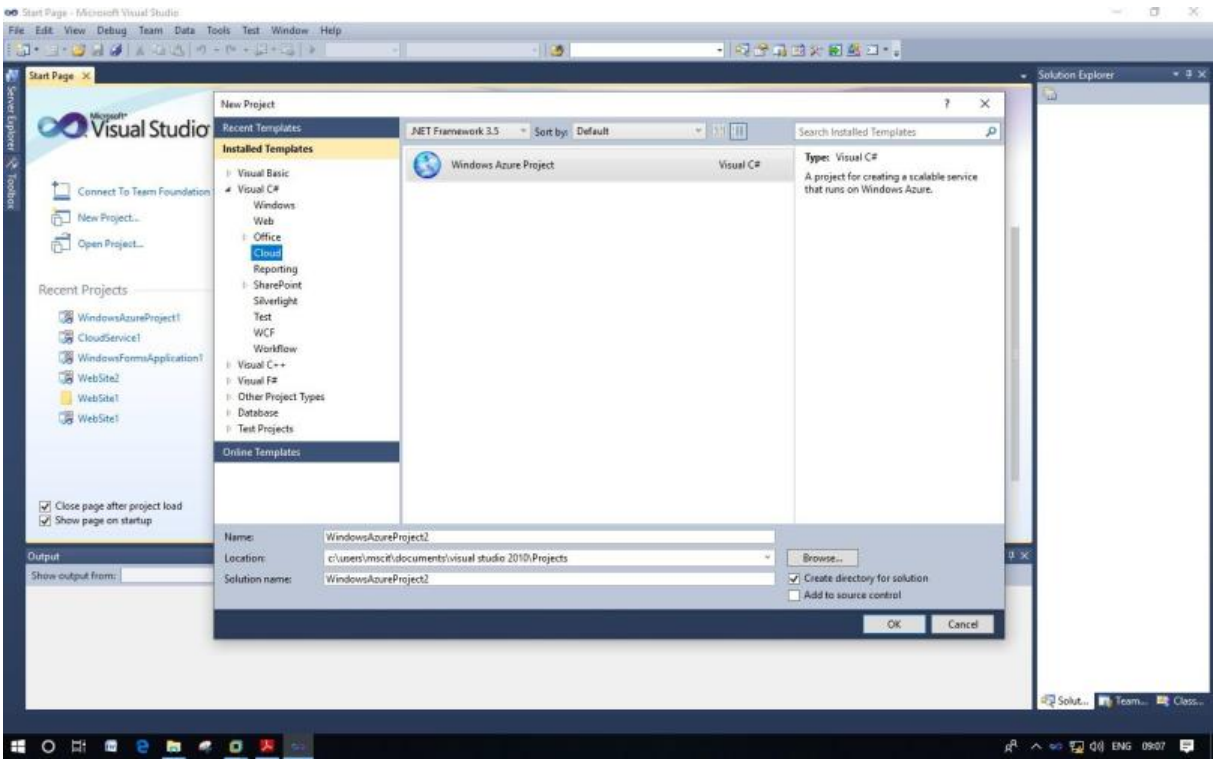


Expand the internet information services and select the following checkbox.

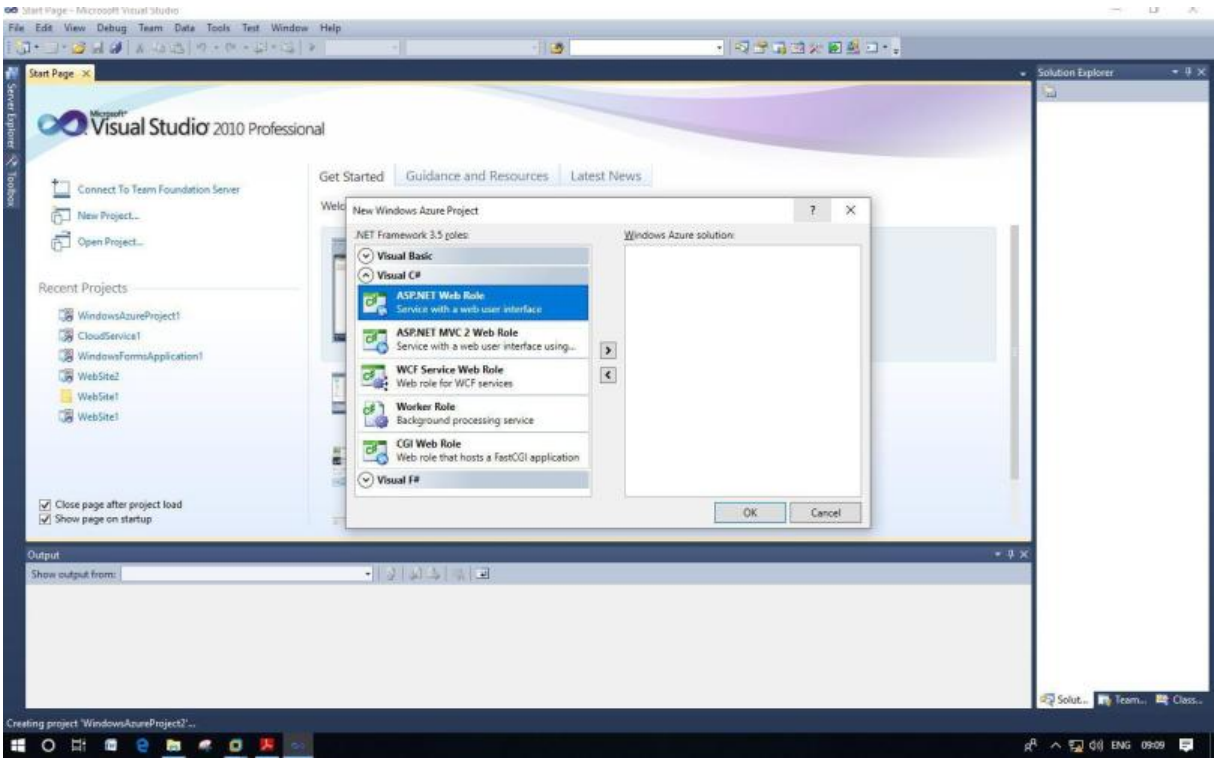


Step4:

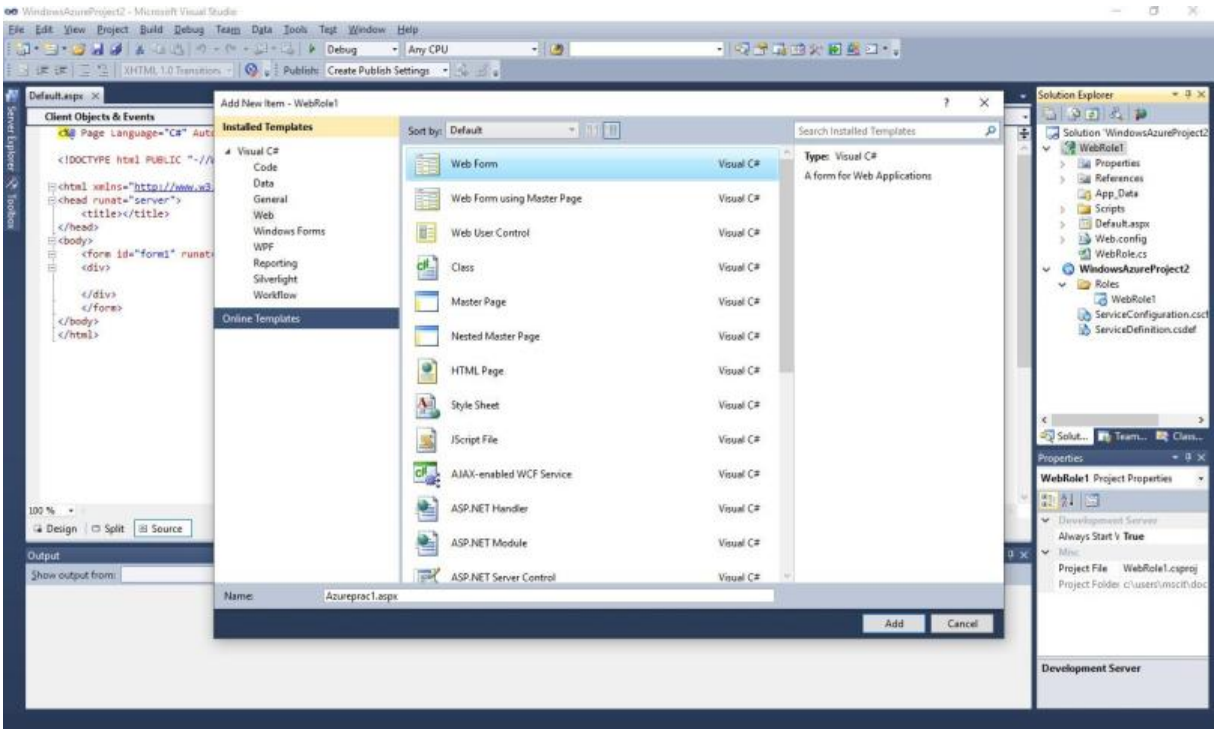
Now, Start the visual studio 2010 and Go To File->New->Project

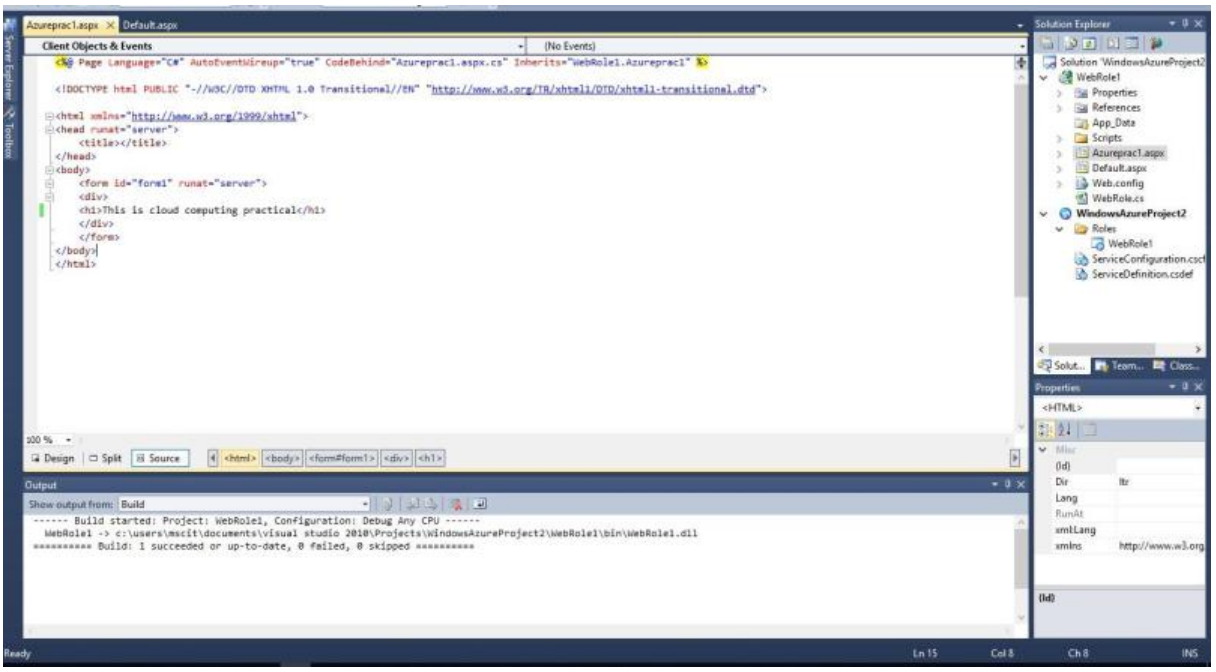


Add asp.net roles

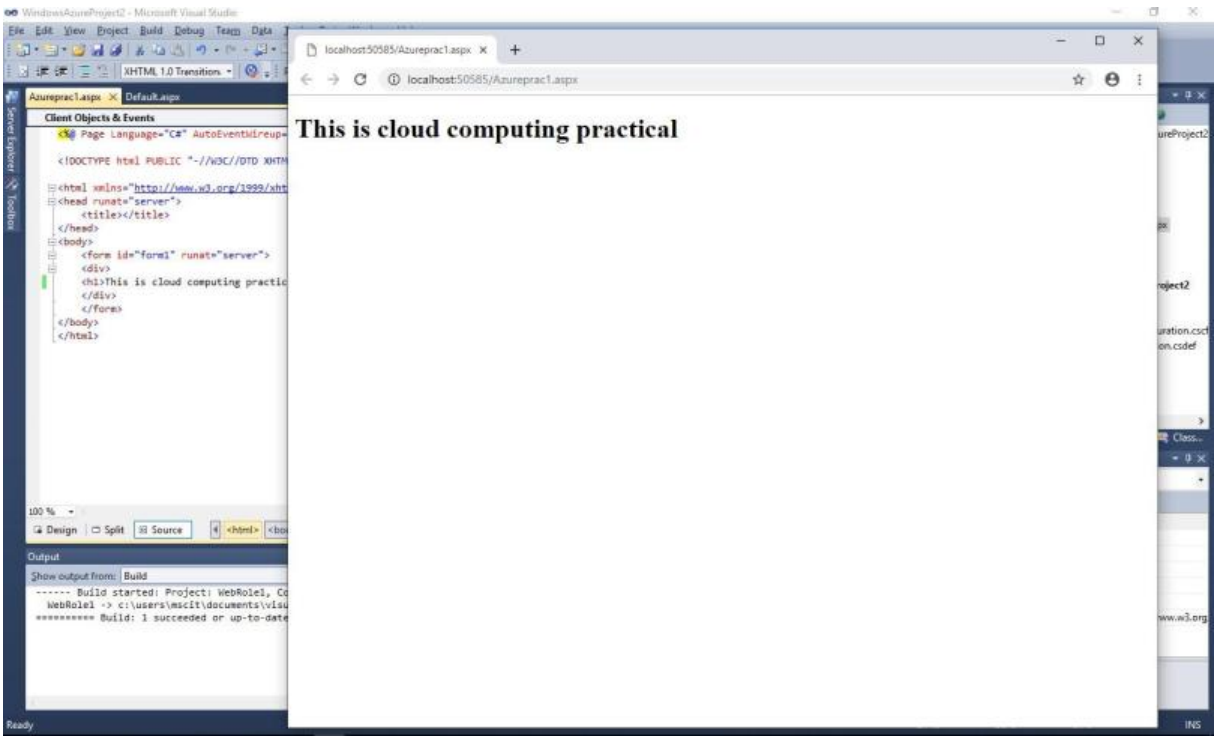


Create a web form



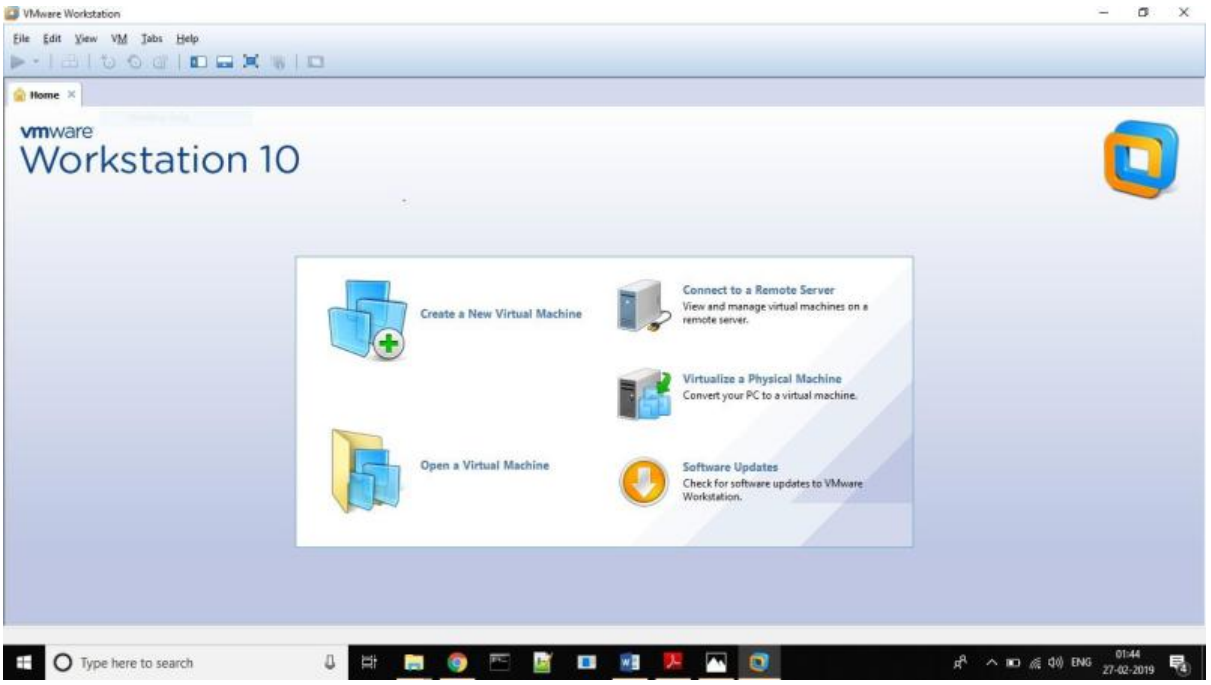


Run the website

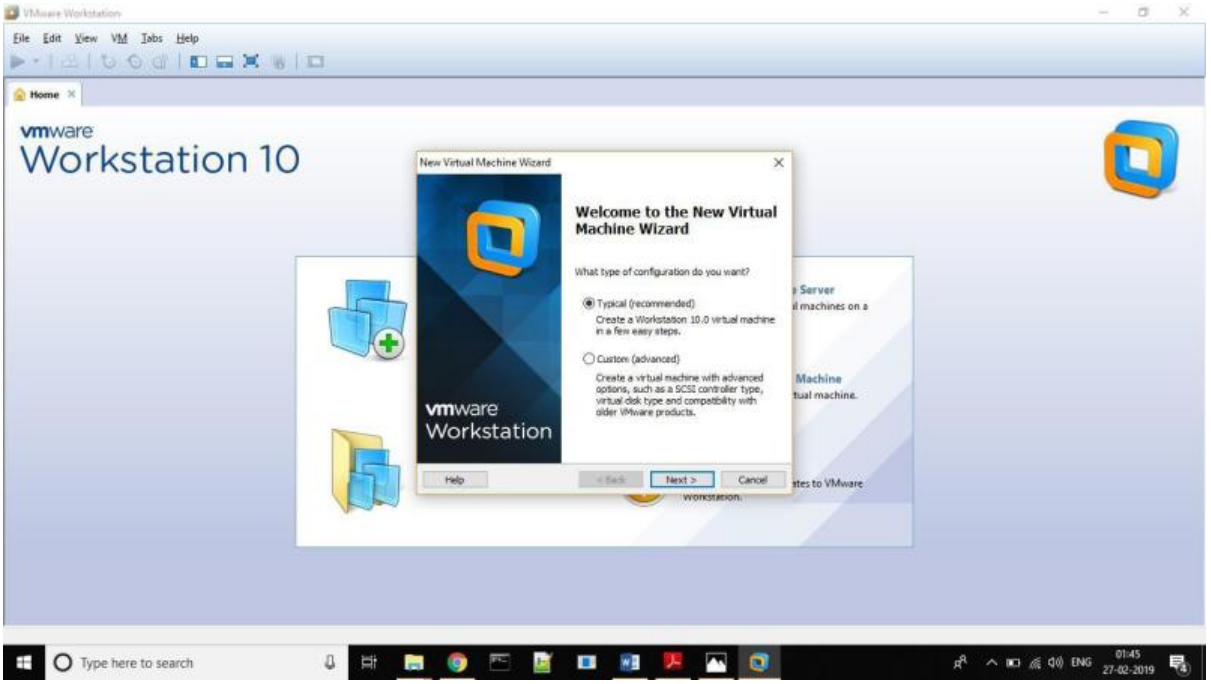

localhost:50585/Azureprac1.aspx
This is cloud computing practical

PRACTICAL: 3
IMPLEMENTING PRIVATE CLOUD WITH XEN SERVER

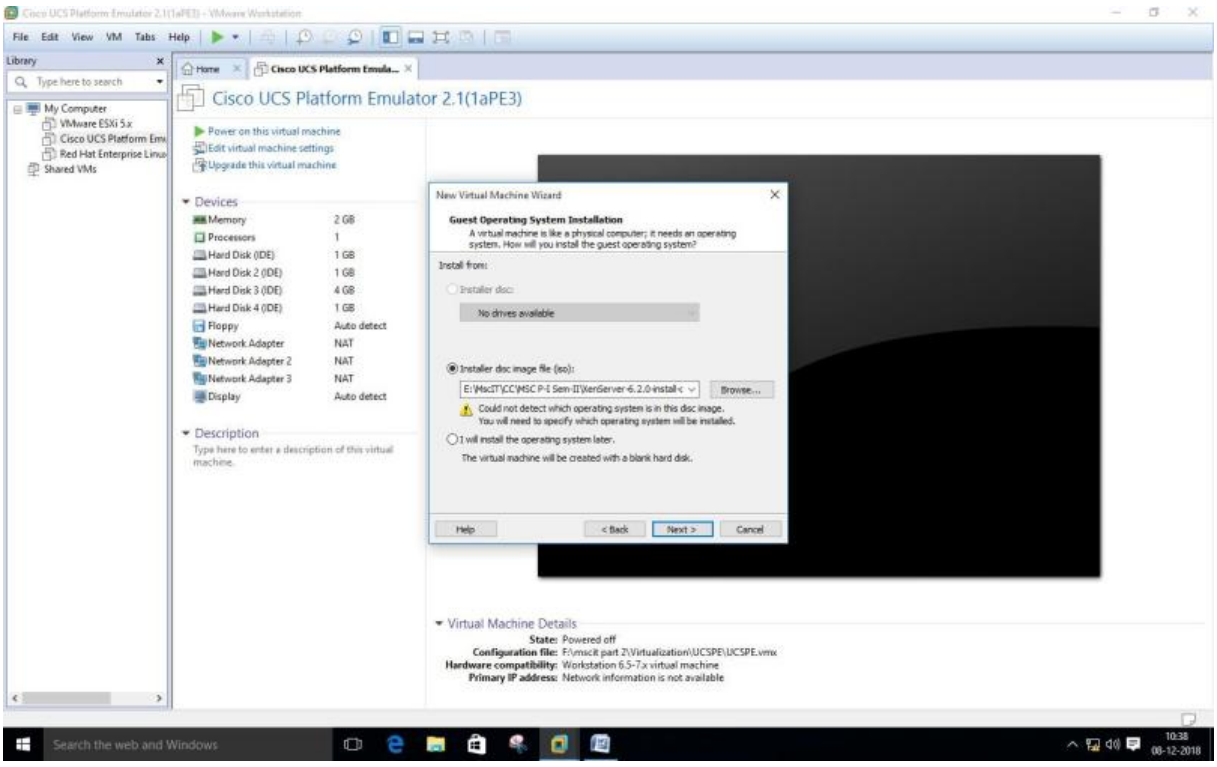
Open VMware Workstation – And select Create a New Virtual Machine



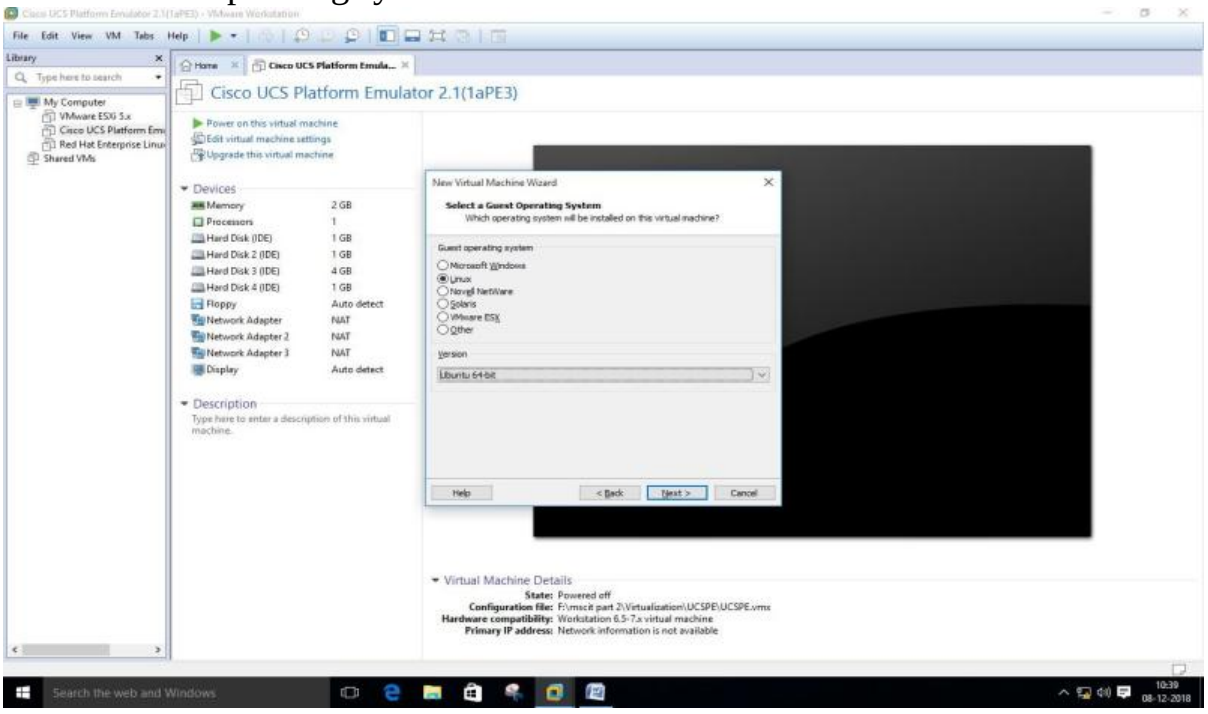
Select Typical and click Next



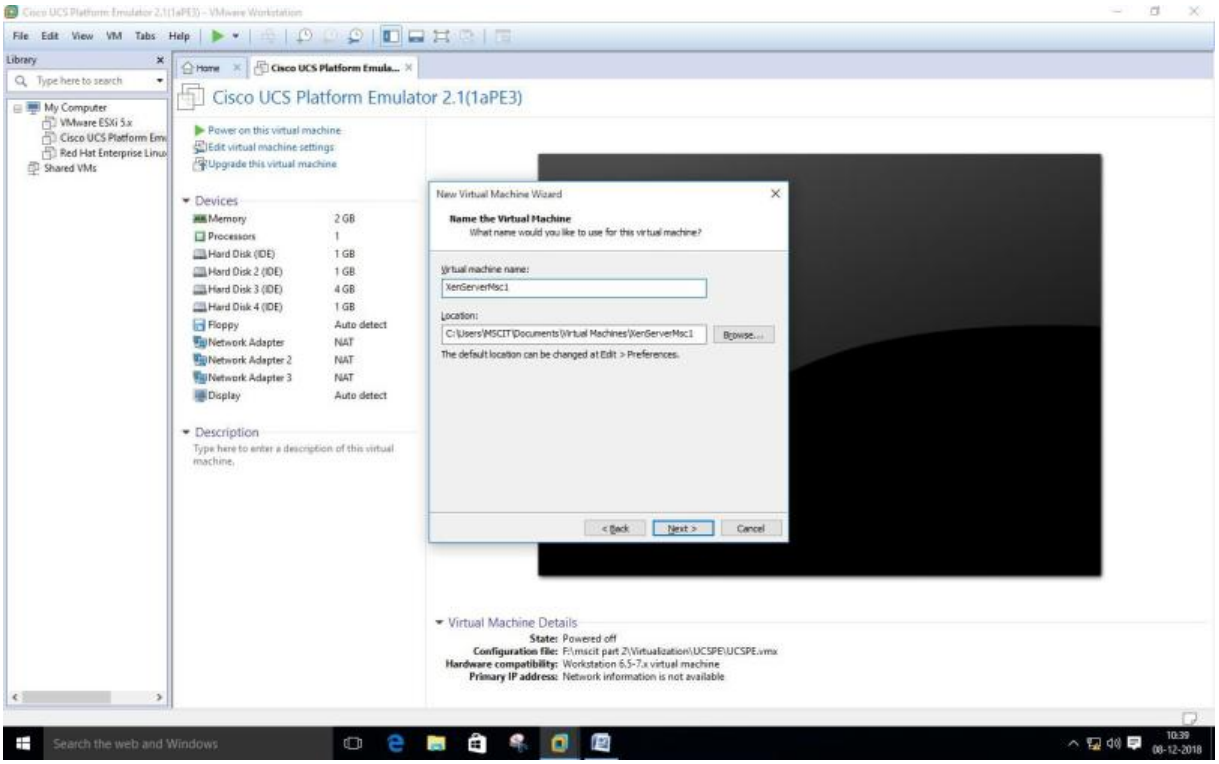
Select Installer disc_image file(ISO). Click Browse - XenServer Iso File – For Example "**D:\ccpraxrj\XenServer-6.2.0-install-cd.iso**"
And click on next



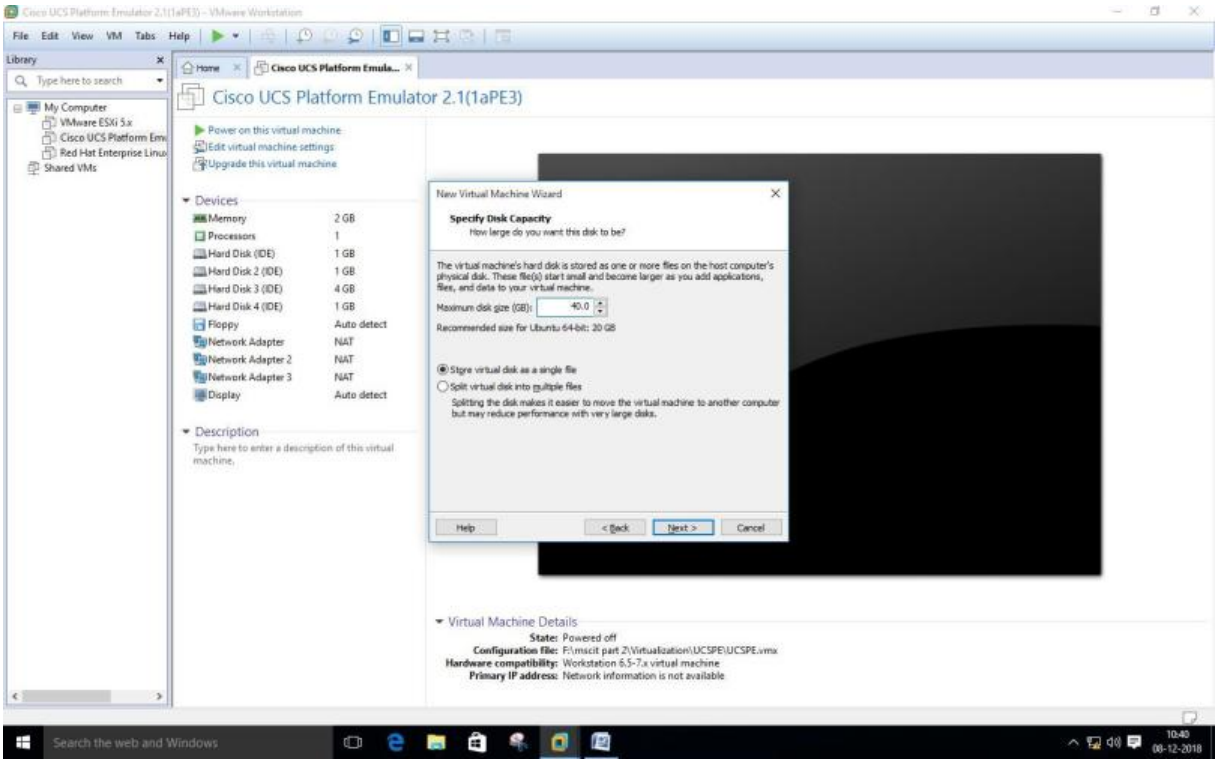
Select Guest Operating system as Linux. Version as Ubuntu. Click Net.



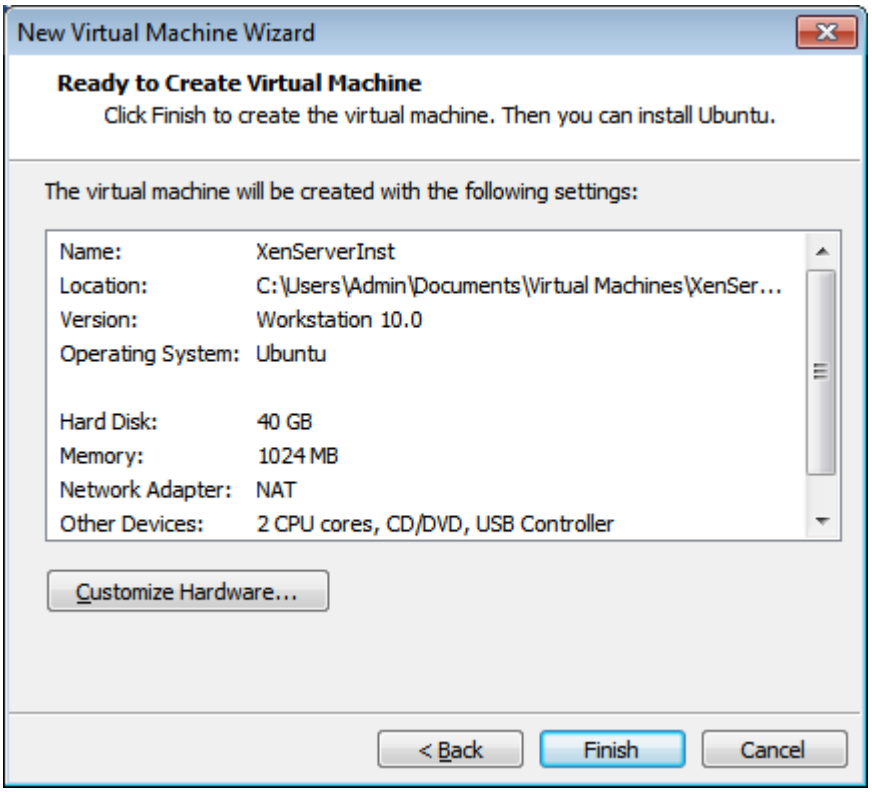
Give Virtual name – for Example “XenServerInst” and click on next



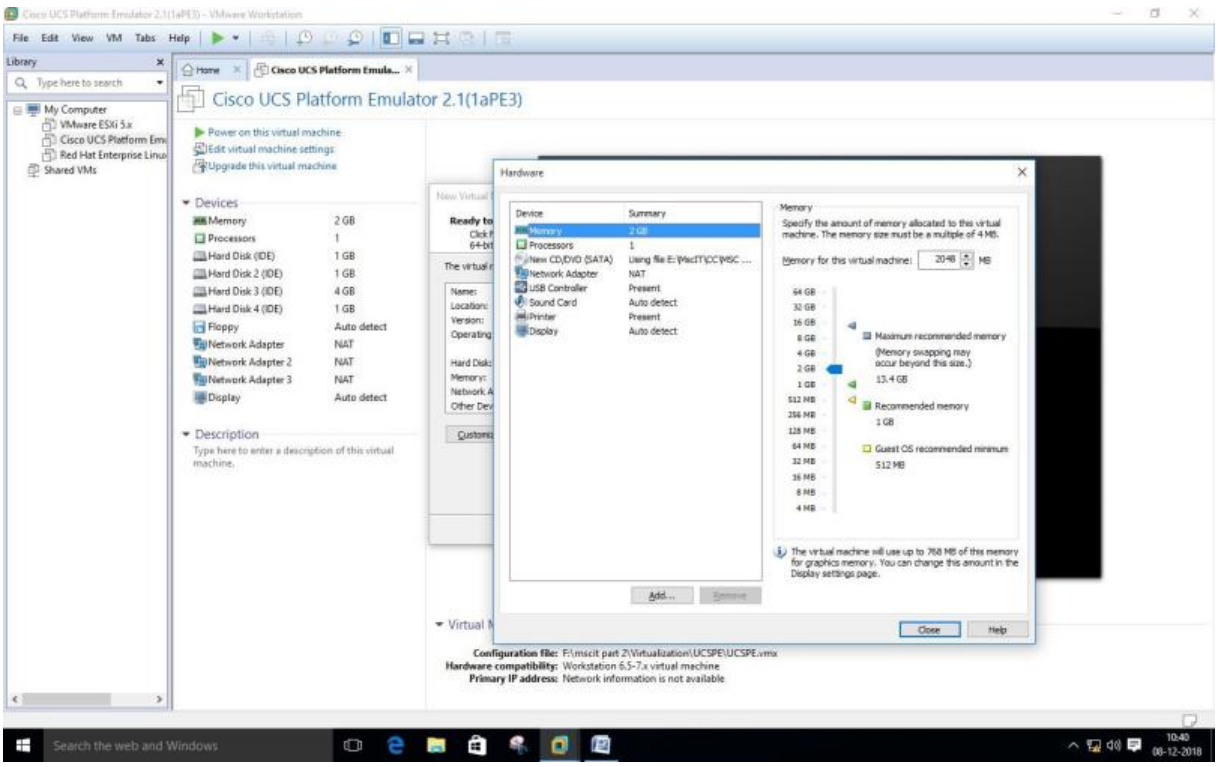
Change maximum disk size to 40 GB and check –Store virtual disk as single file



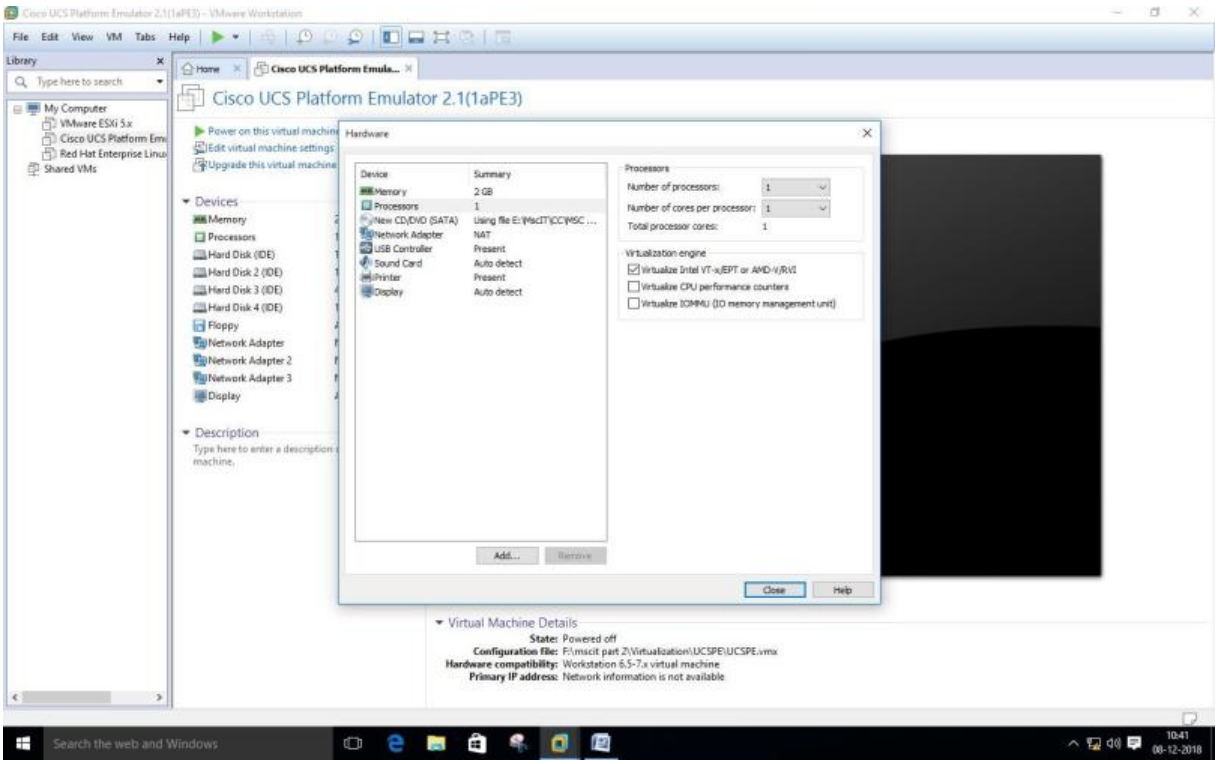
Click on **Customize Hardware option**



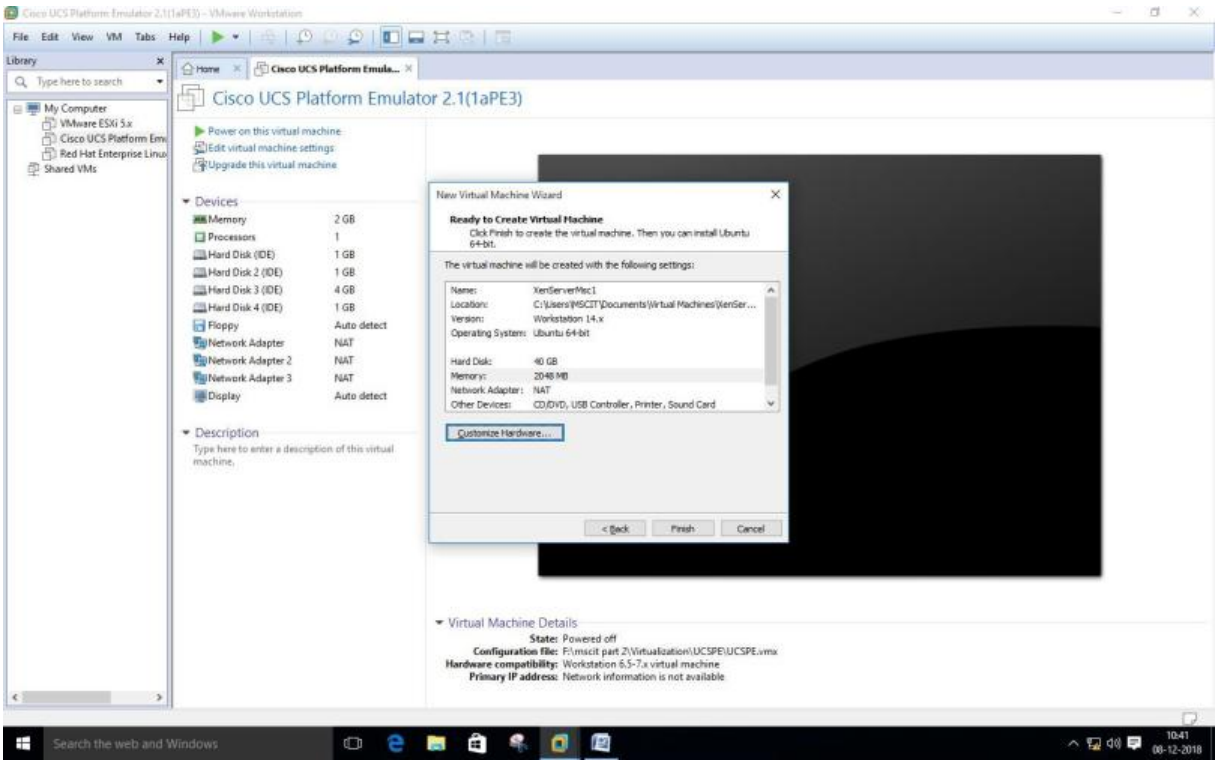
Change – Memory for this virtual machine to 2 GB and click on close



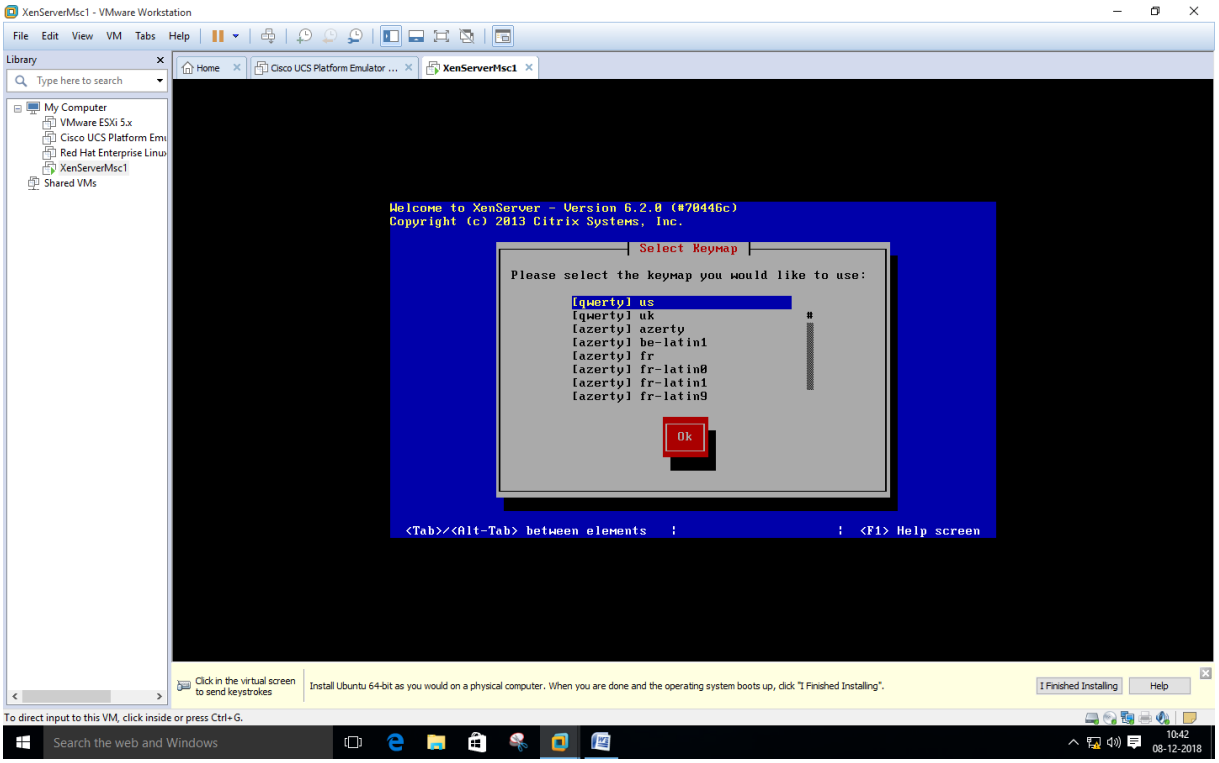
Click on Processer and select virtualize Intel VT



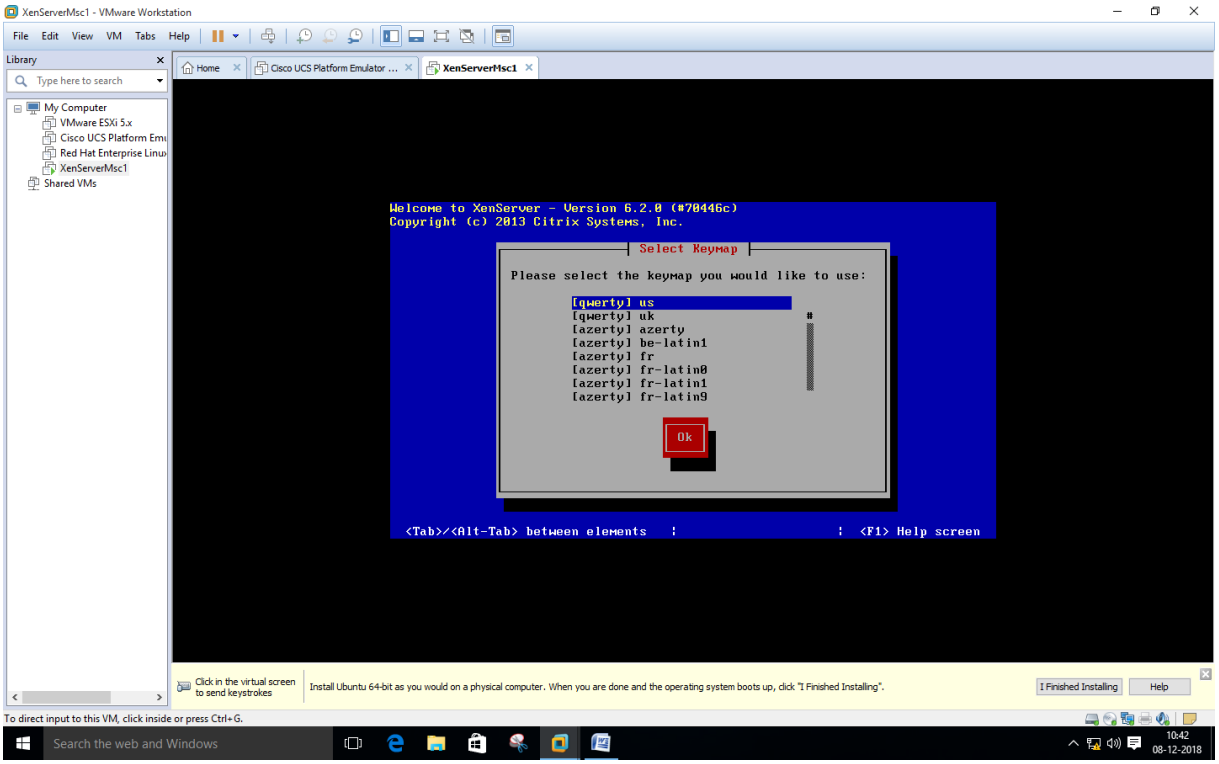
Click on Finish –



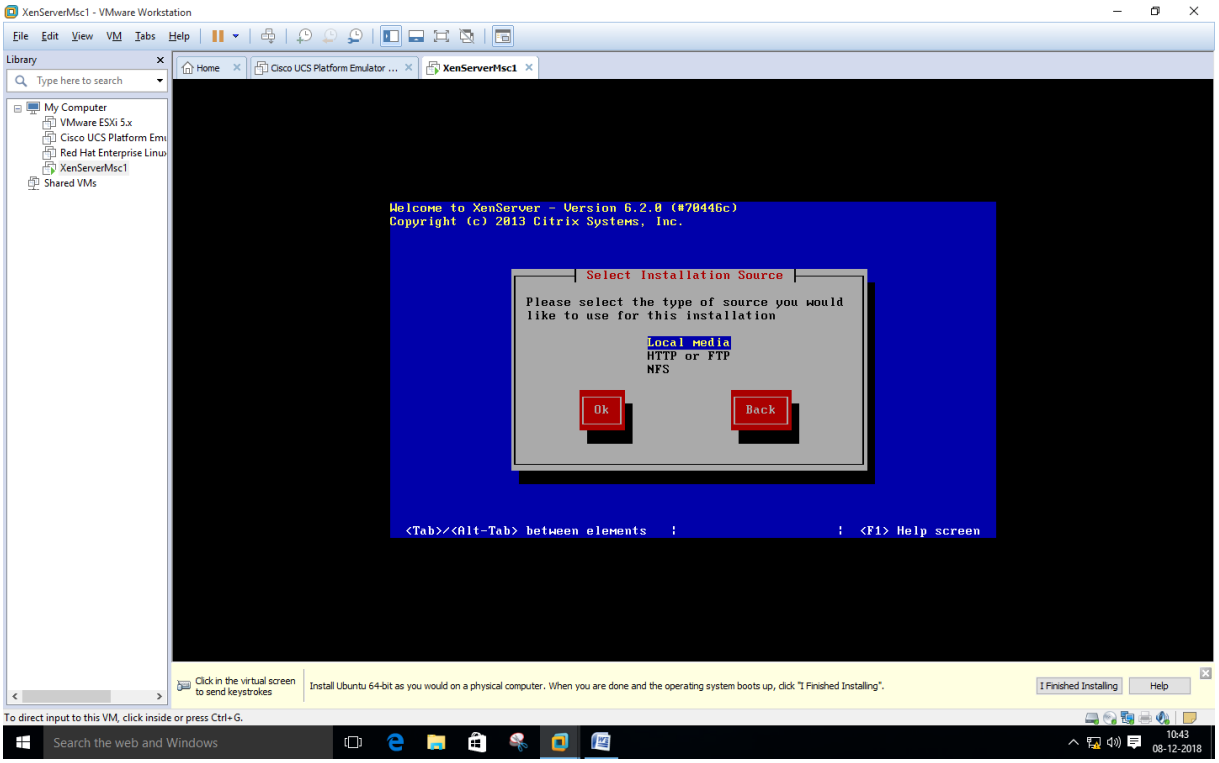
Now Power on newly created Virtual machine –
Now select US and click on OK



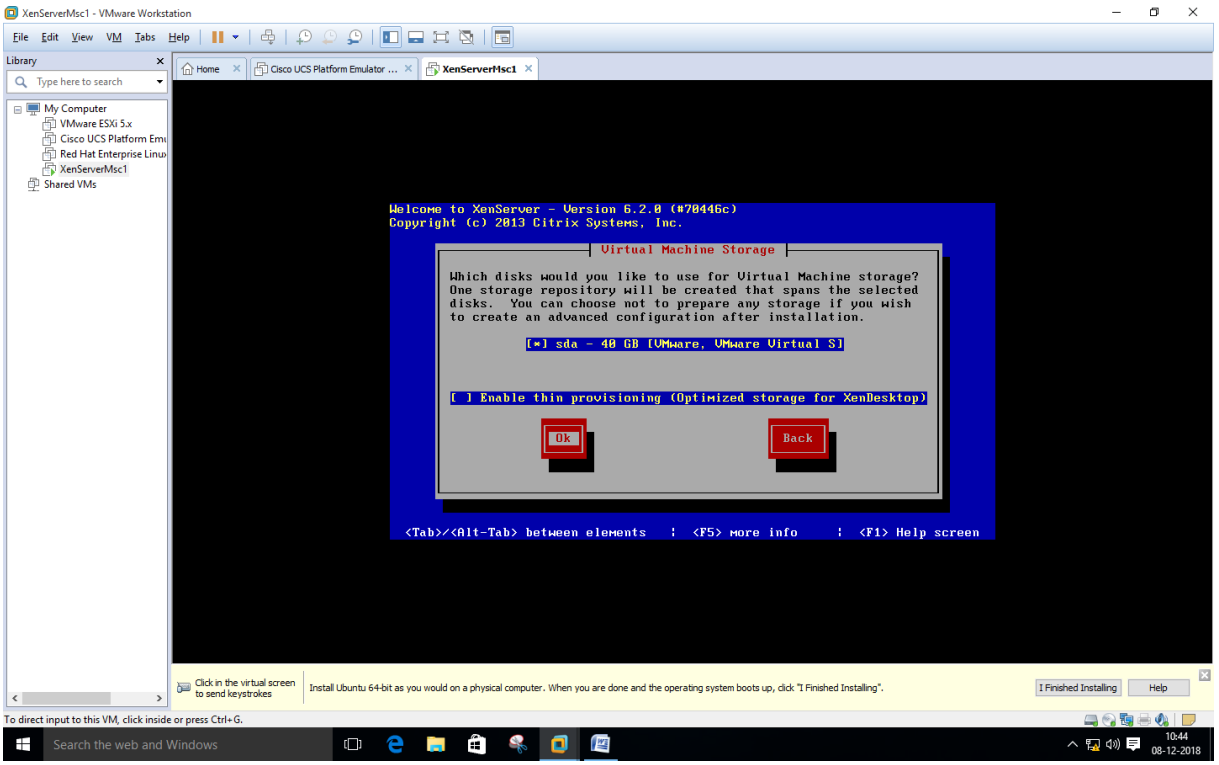
Click on OK as seen in below screenshot -



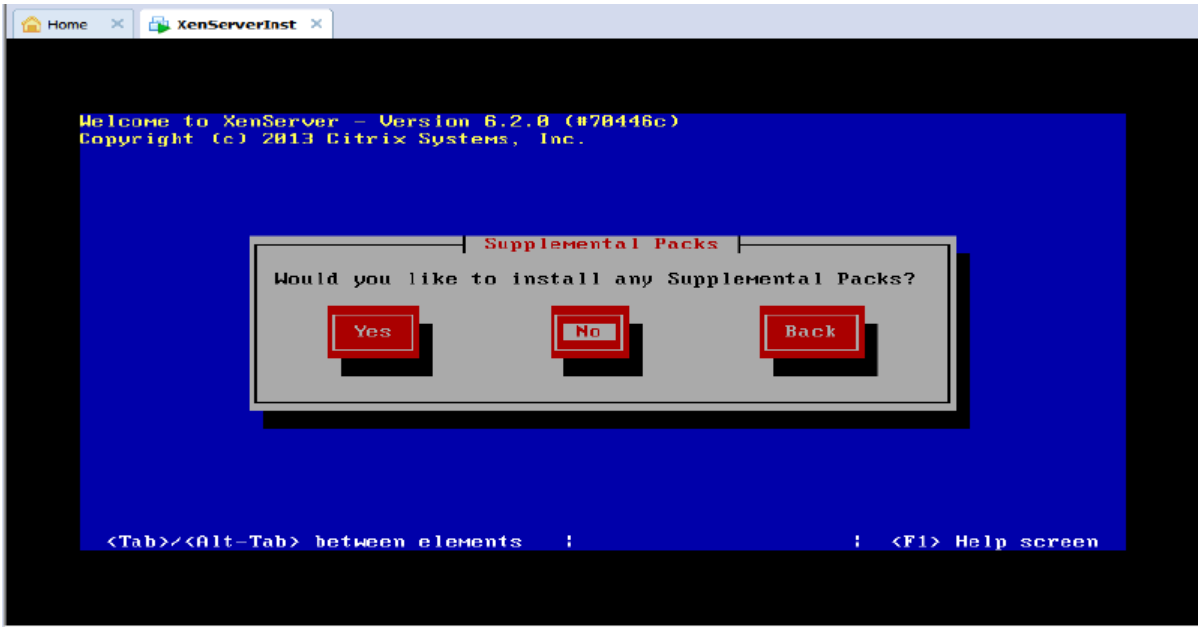
Select **Local media and ok**


XenServerMsc1 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x
Cisco UCS Platform Emu
Red Hat Enterprise Linux
XenServerMsc1
Shared VMs
Home
Cisco UCS Platform Emulator ...
XenServerMsc1
Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
Select Installation Source
Please select the type of source you would like to use for this installation
Local media
HTTP or FTP
NFS
Ok
Back
<Tab>/<Alt-Tab> between elements : <F1> Help screen
Click in the virtual screen to send keystrokes
Install Ubuntu 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:43
08-12-2018

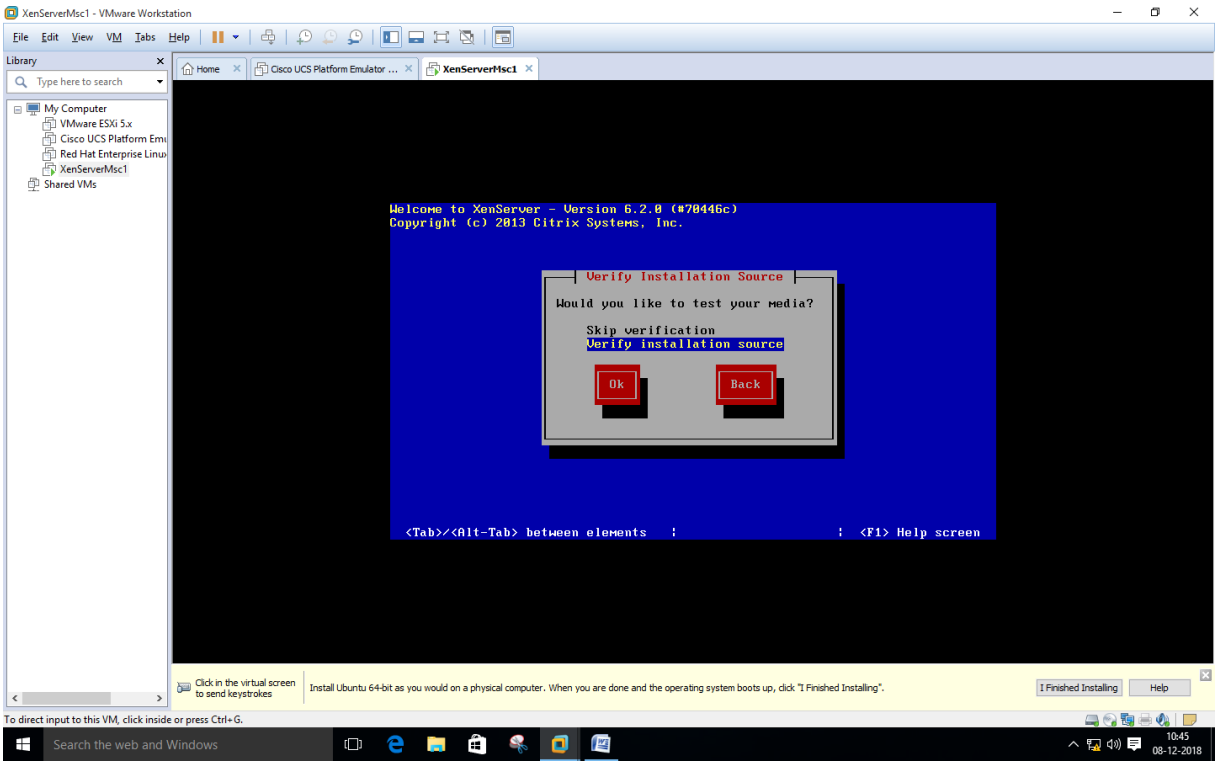
Click **ok**


XenServerMsc1 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x
Cisco UCS Platform Emu
Red Hat Enterprise Linux
XenServerMsc1
Shared VMs
Home
Cisco UCS Platform Emulator ...
XenServerMsc1
Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
Virtual Machine Storage
Which disks would you like to use for Virtual Machine storage?
One storage repository will be created that spans the selected
disks. You can choose not to prepare any storage if you wish
to create an advanced configuration after installation.
[*] sda - 40 GB [VMware, VMware Virtual S]
[ ] Enable thin provisioning (Optimized storage for XenDesktop)
Ok
Back
<Tab>/<Alt-Tab> between elements : <F5> more info : <F1> Help screen
Click in the virtual screen to send keystrokes
Install Ubuntu 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:44
08-12-2018

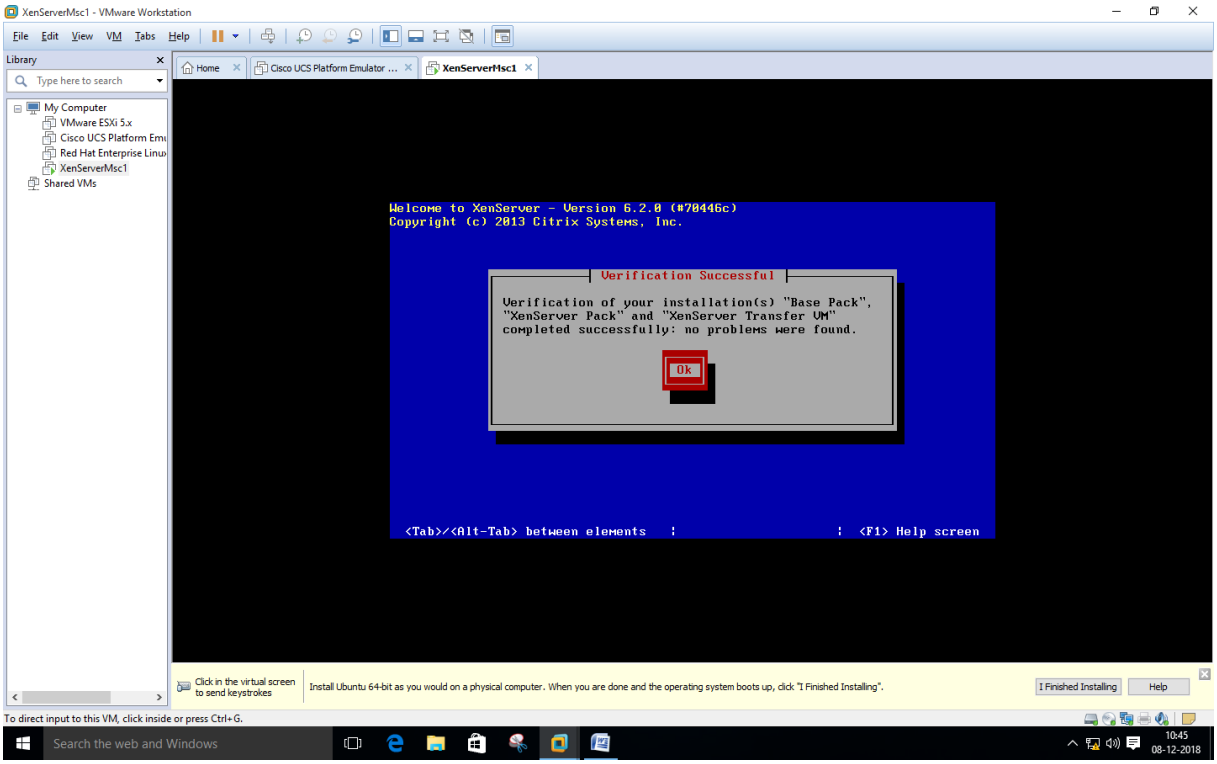
Click **No**



Here click **varify installation**

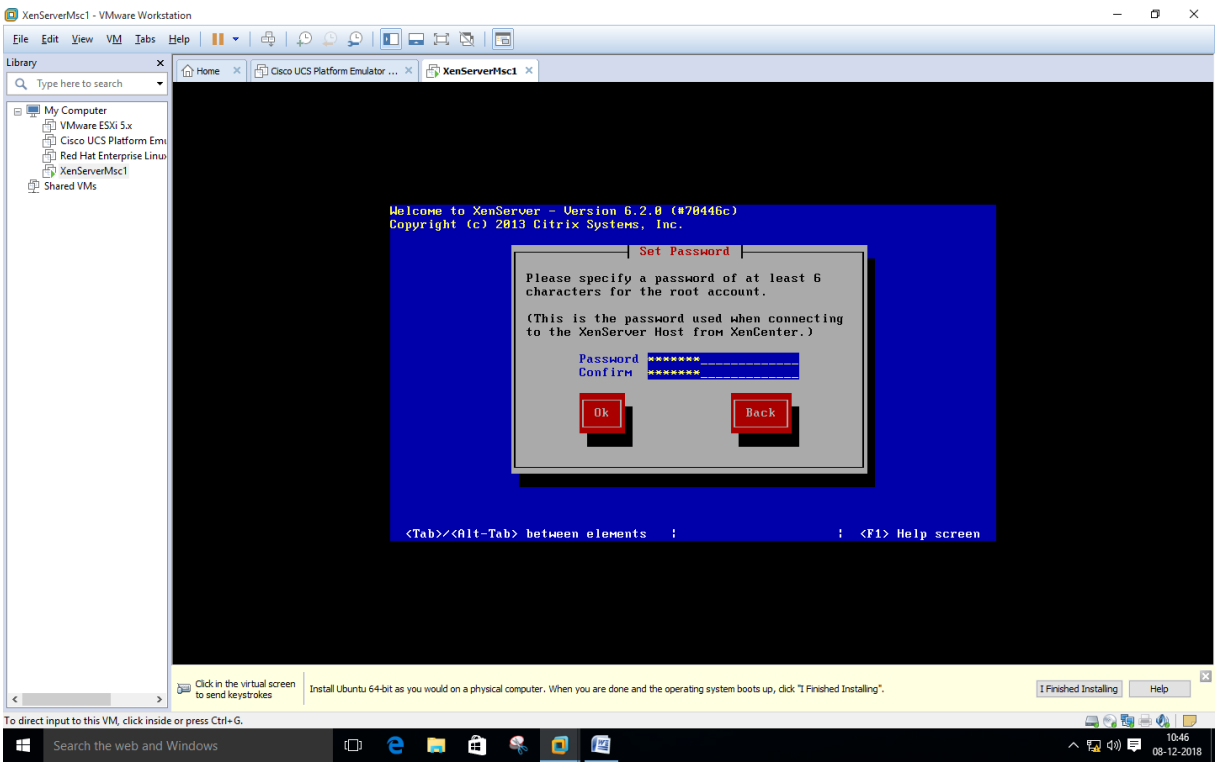


Click **ok**

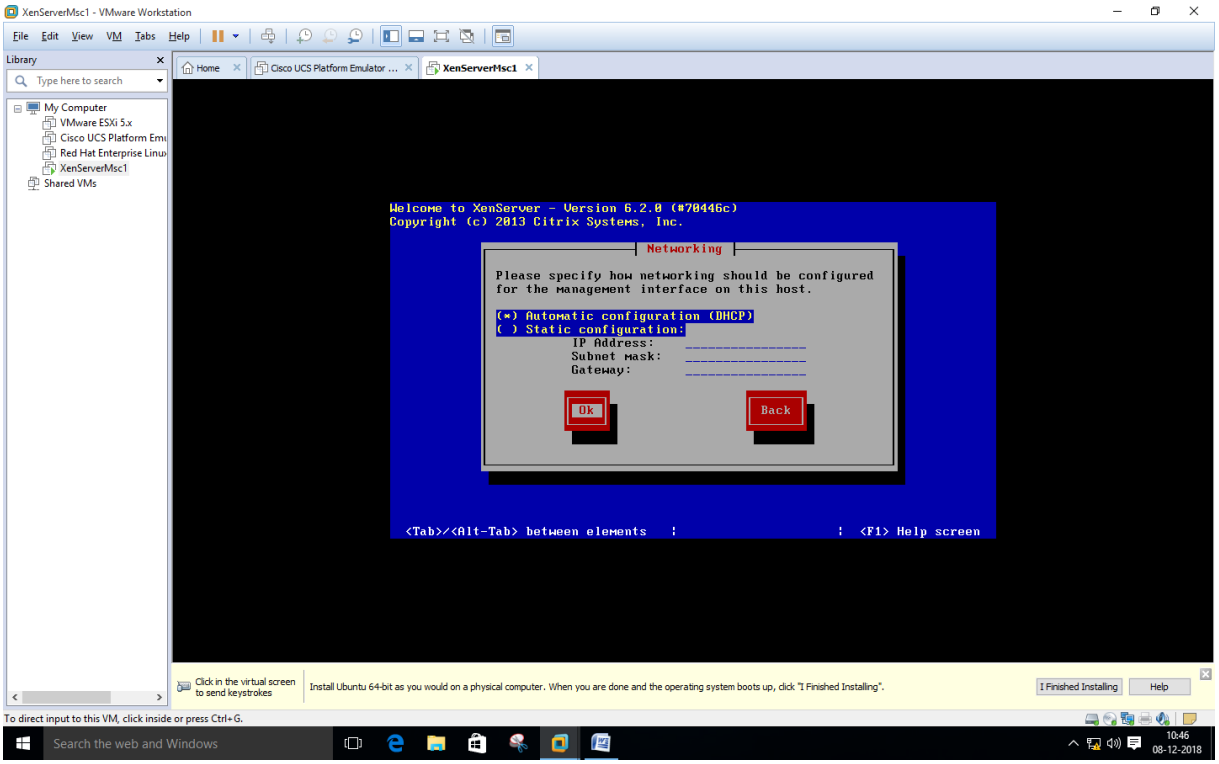


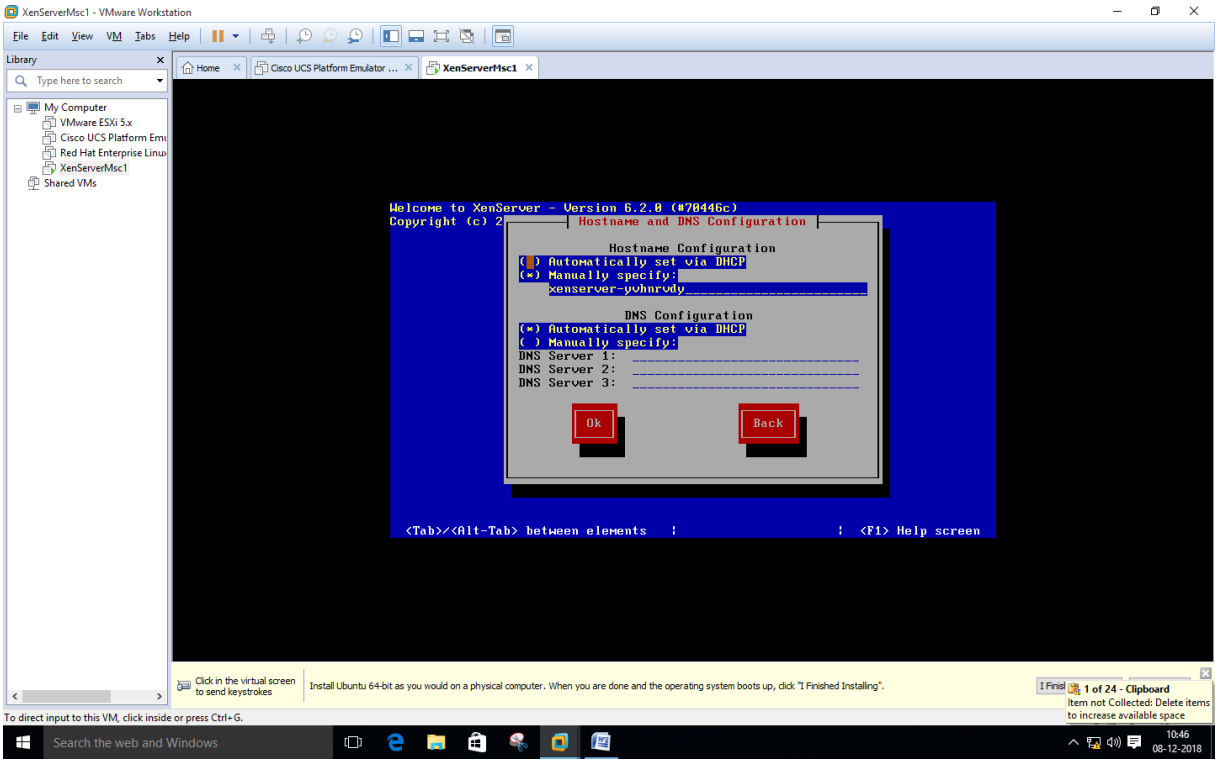
Insert password (Remember password entered) and click on Ok –

Password:root123

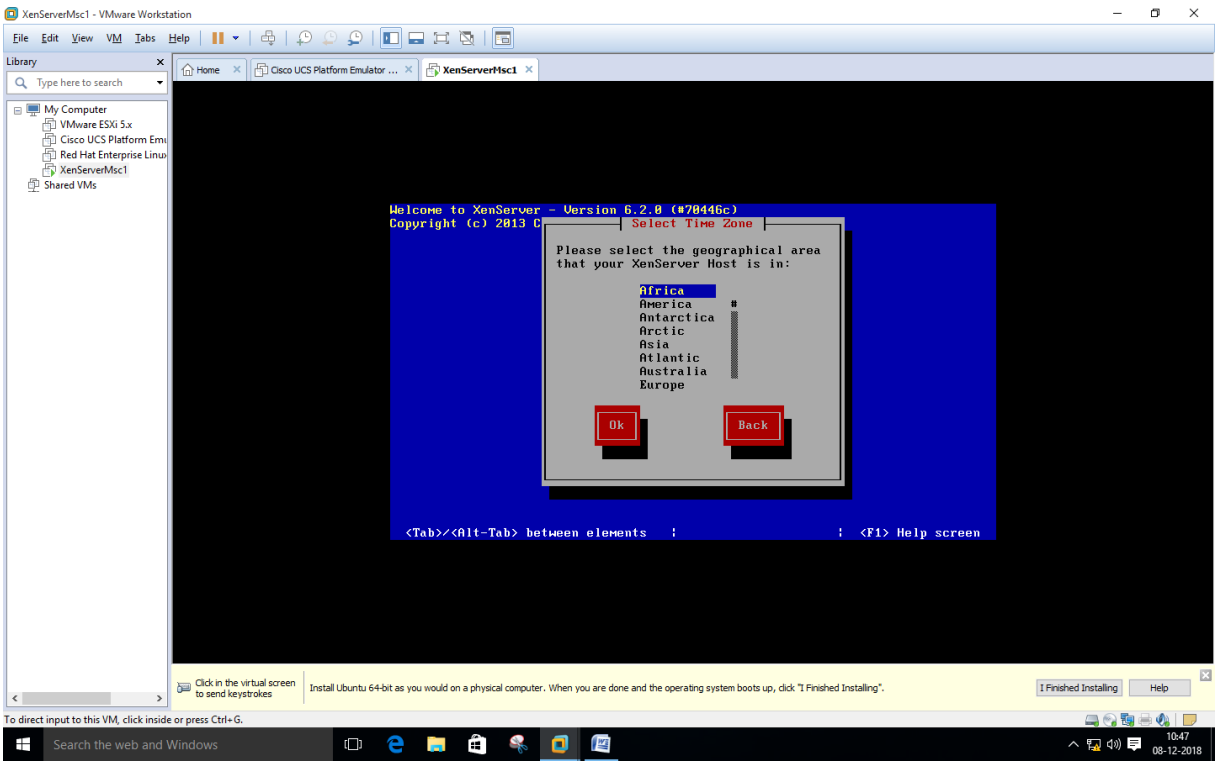


Select Automatically set via DHCP and click on OK

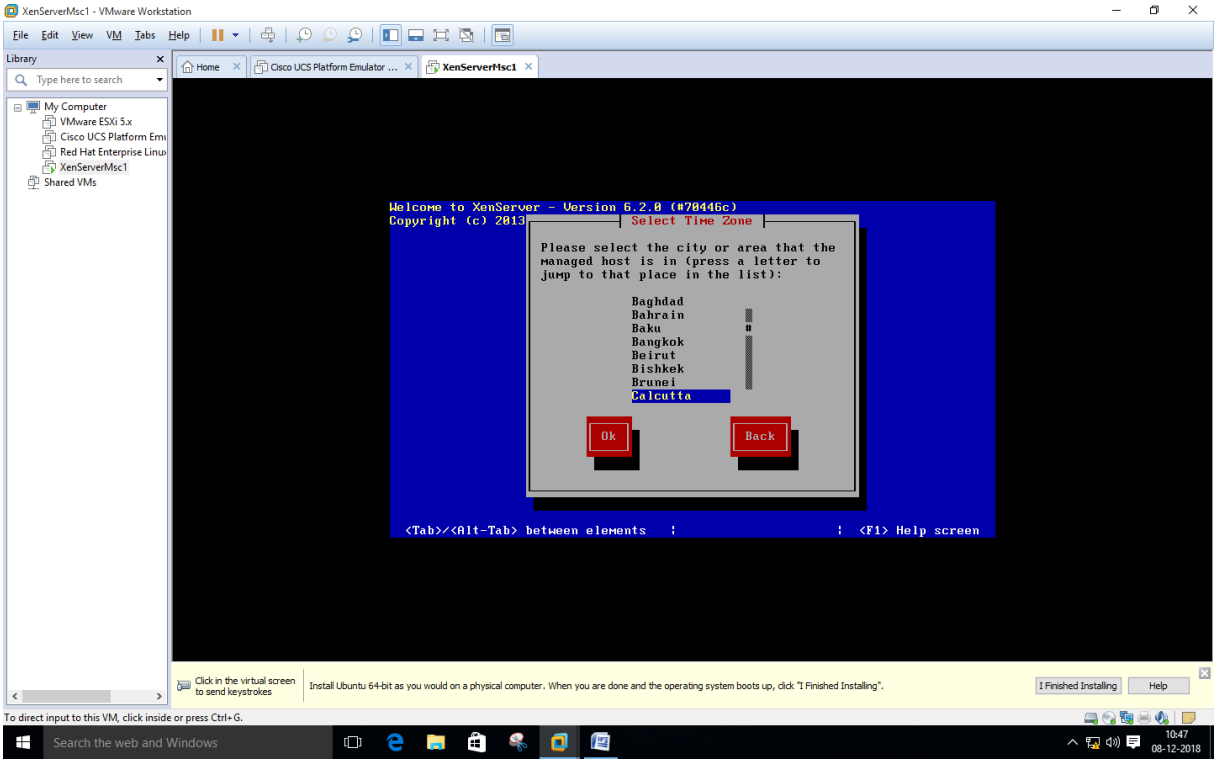




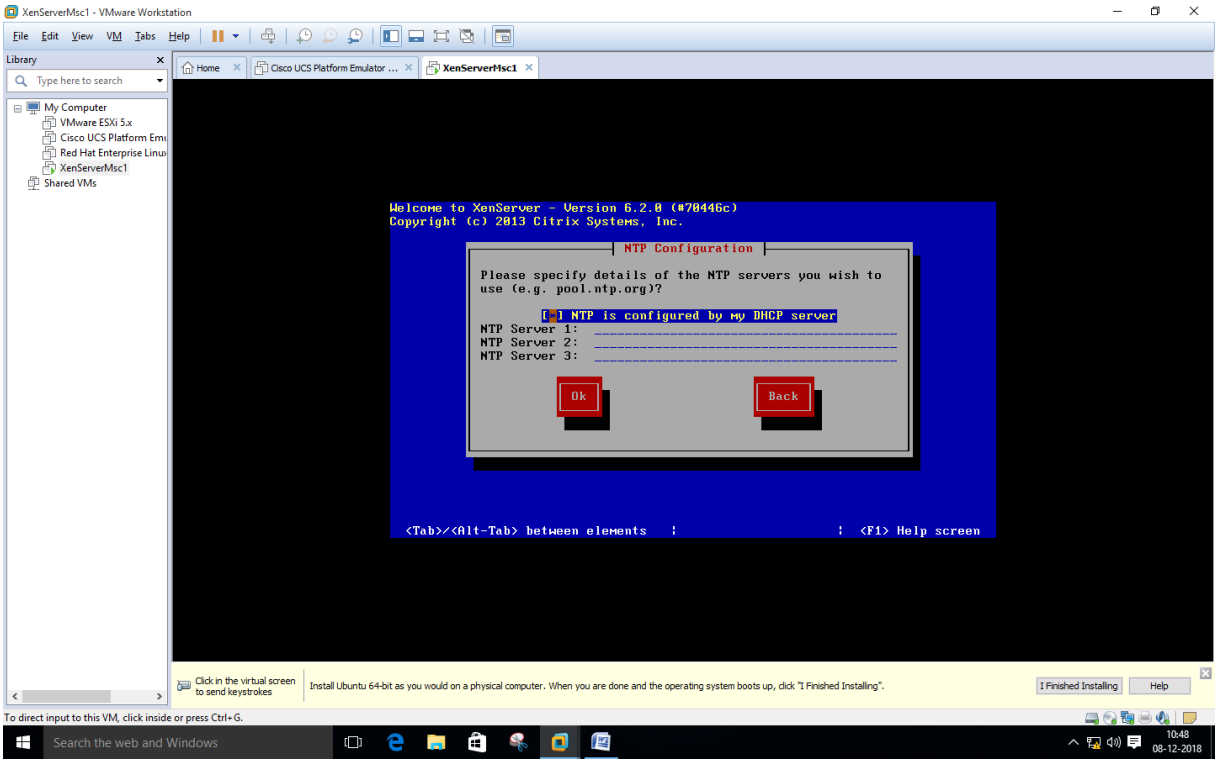
Select Asia and click on OK –



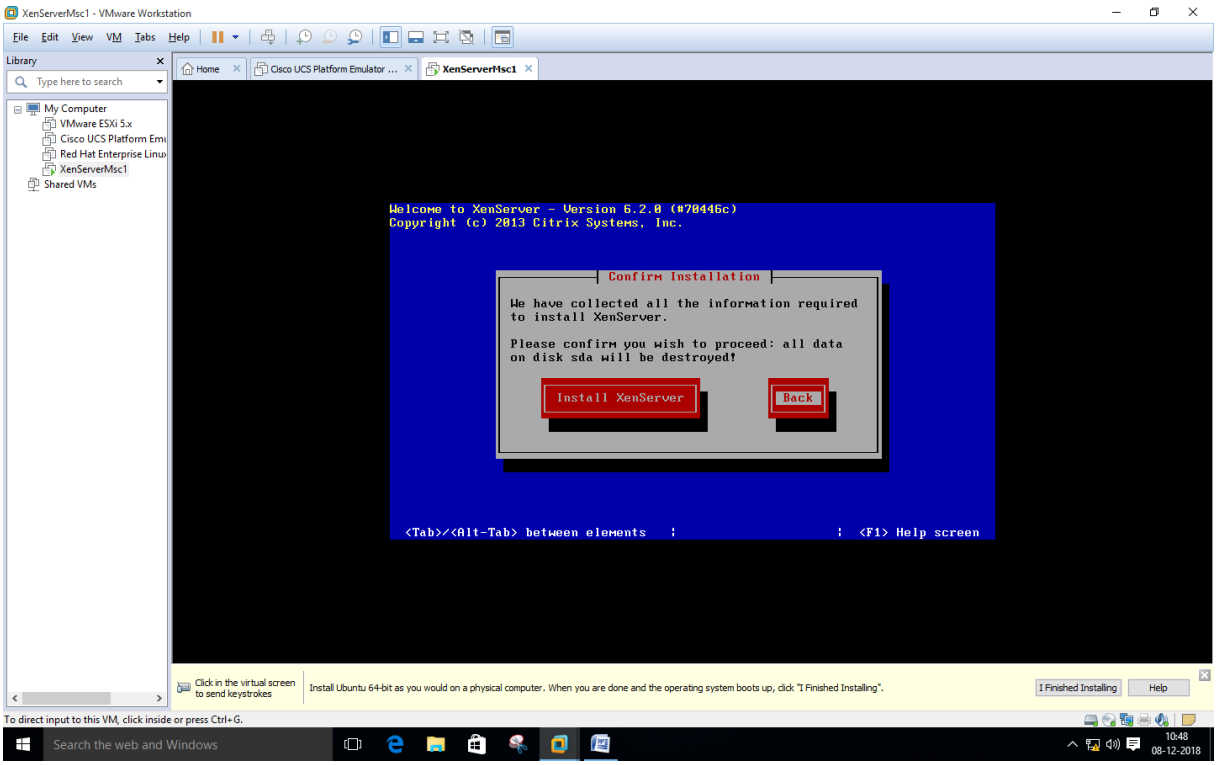
Select **Calcutta**

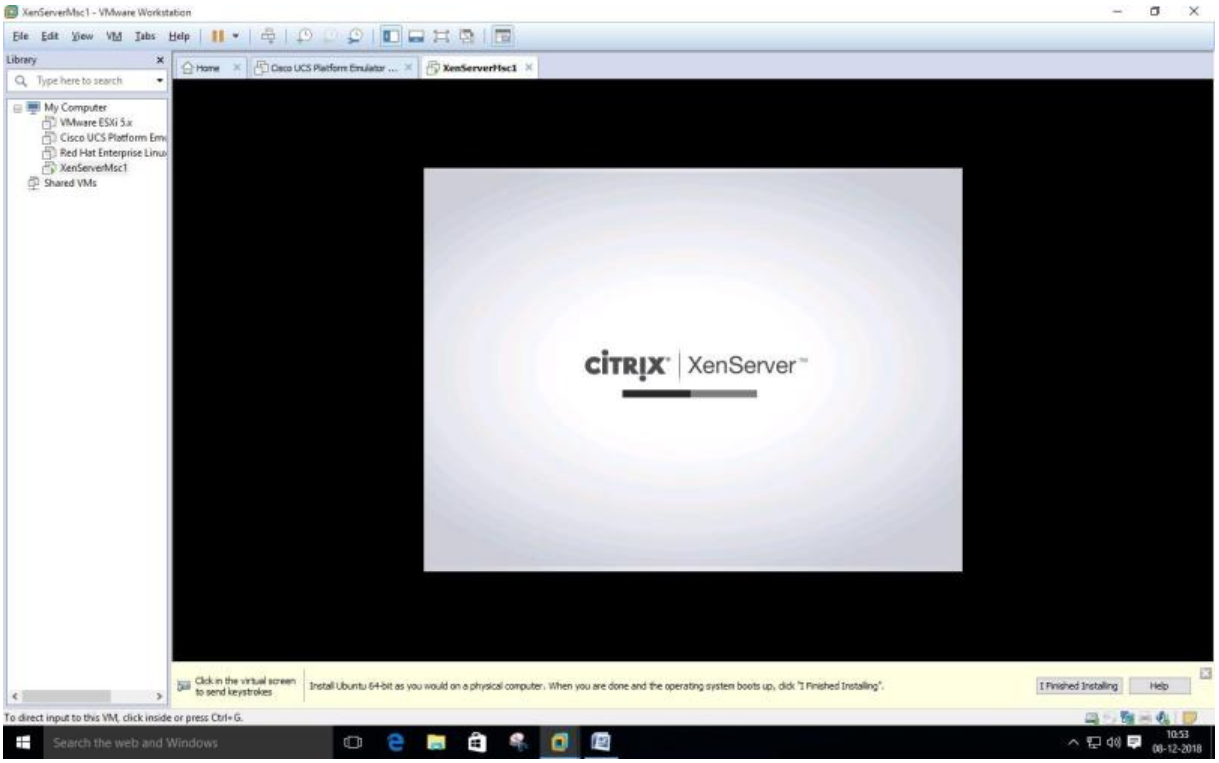


Select “Using NTP” and click on OK

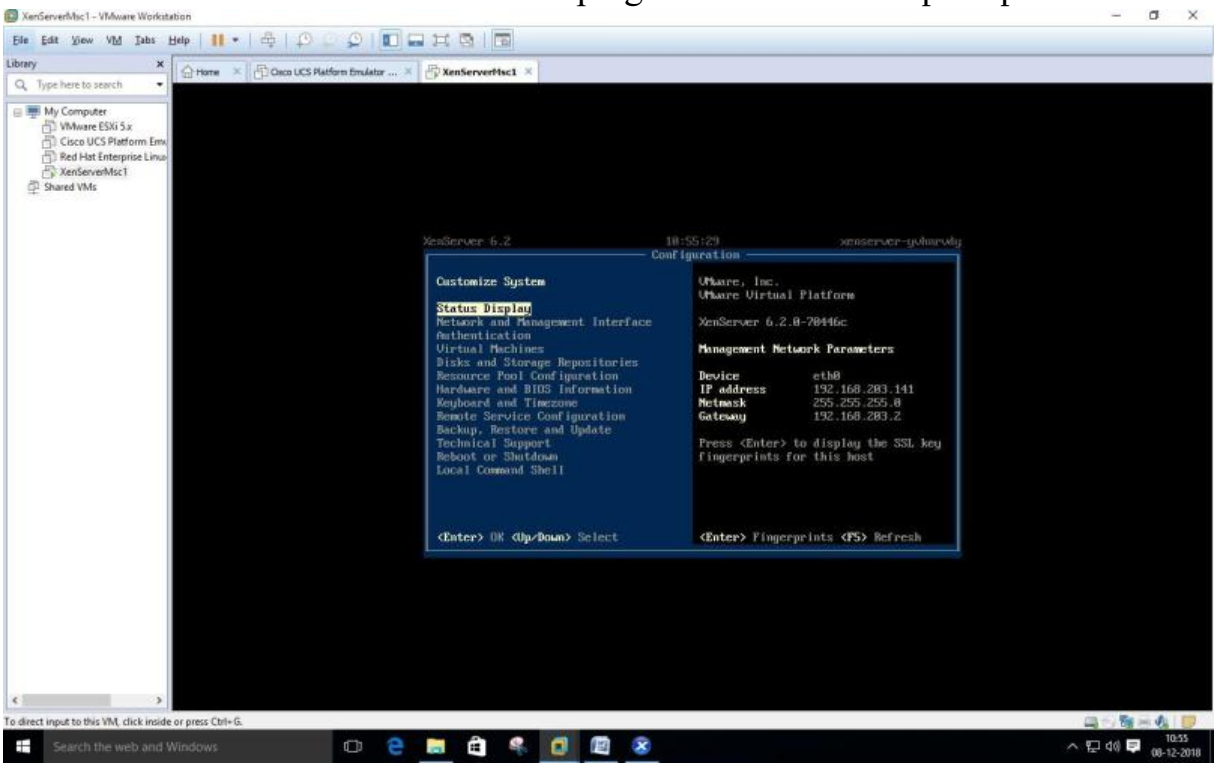


Click **Install Xen server**

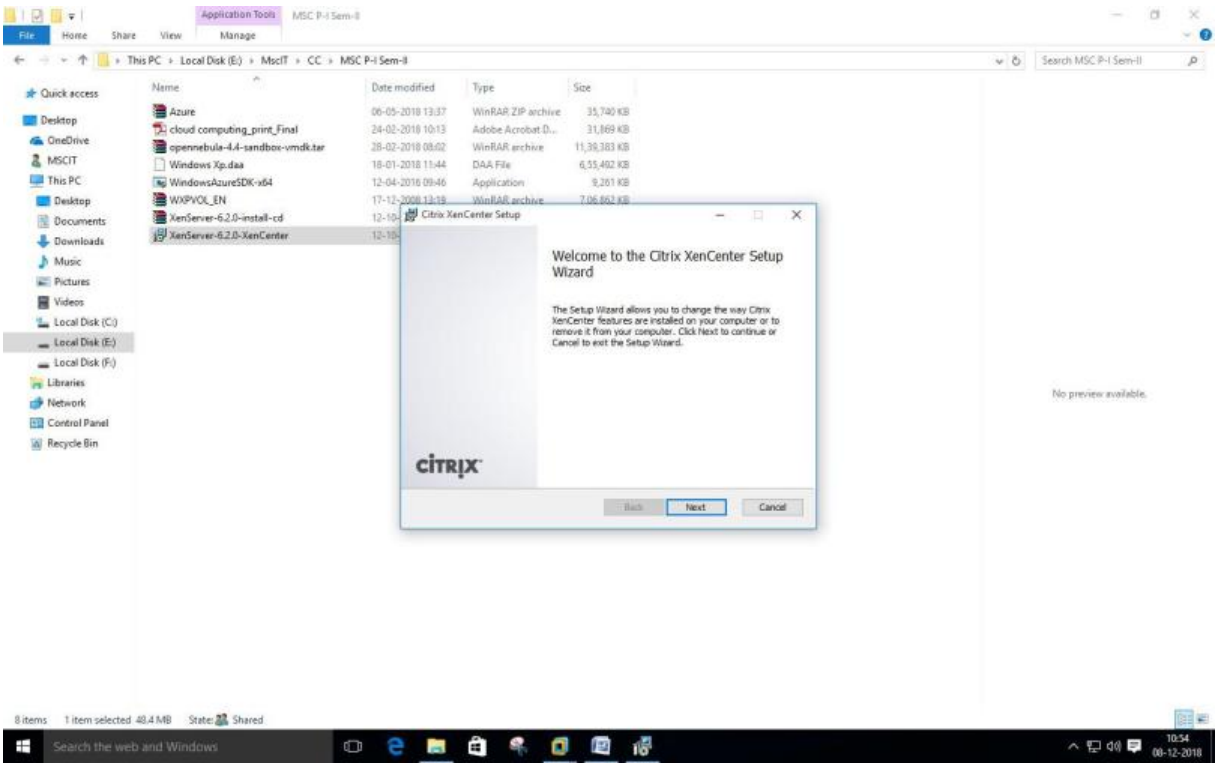




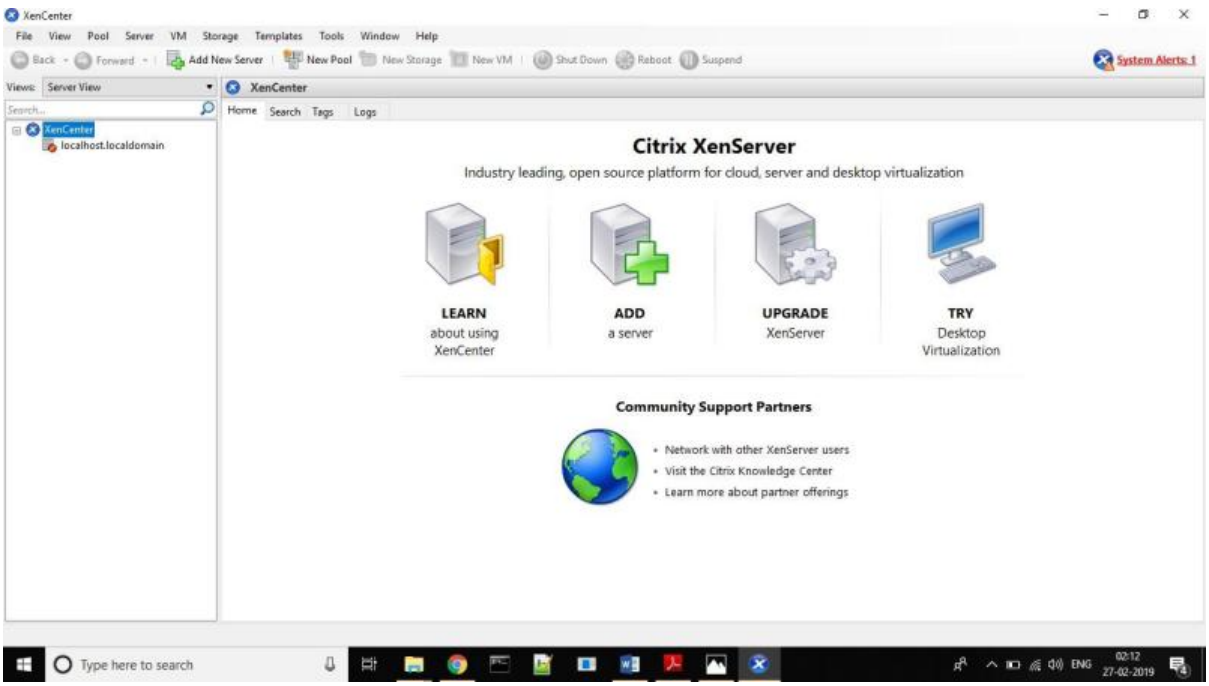
Note IP Addres – “ 192.168.283.141” ping it from command prompt



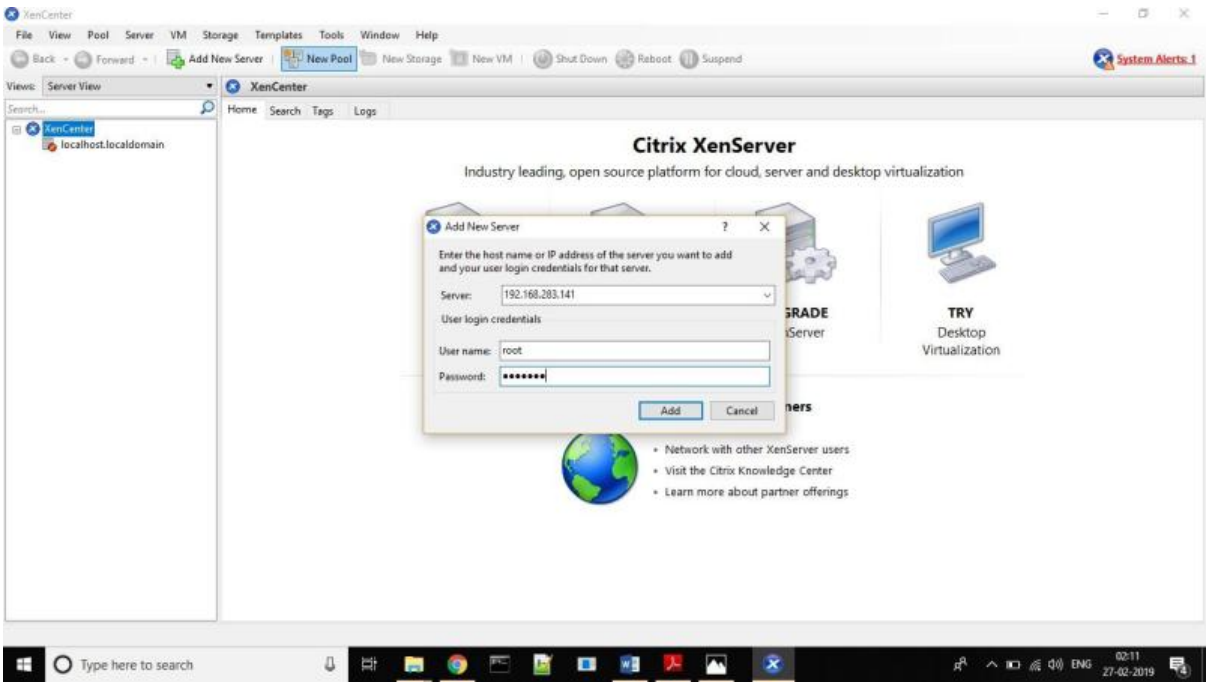
Now Install Citrix App if not installed –



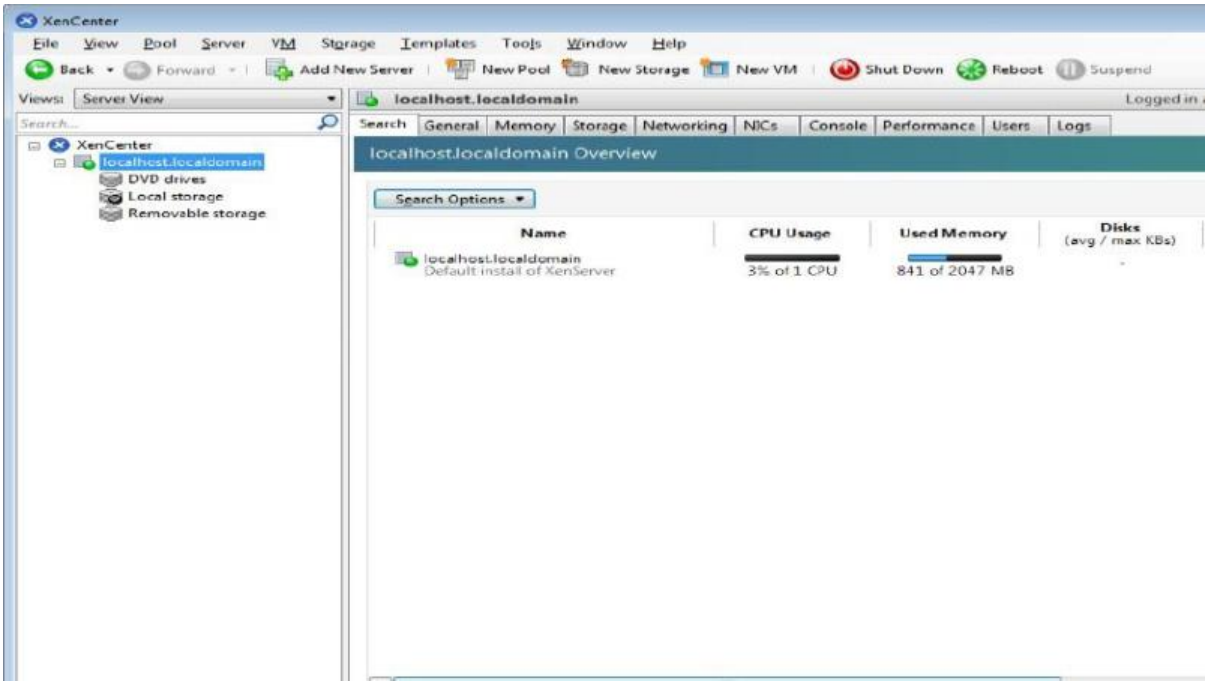
Now Open Citrix XenCenter – and Click and **Add Server**



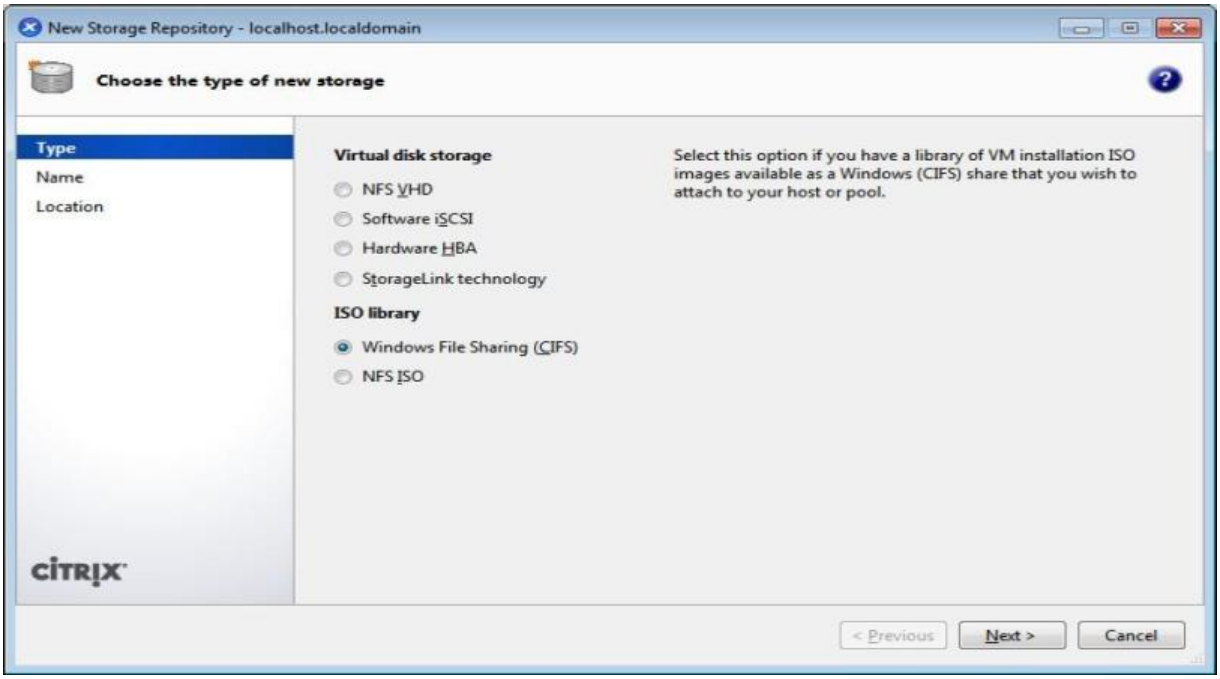
Fill IP address copied from Installation and User name as “root” and Password as “root123” which we had given during installation and Click on Add



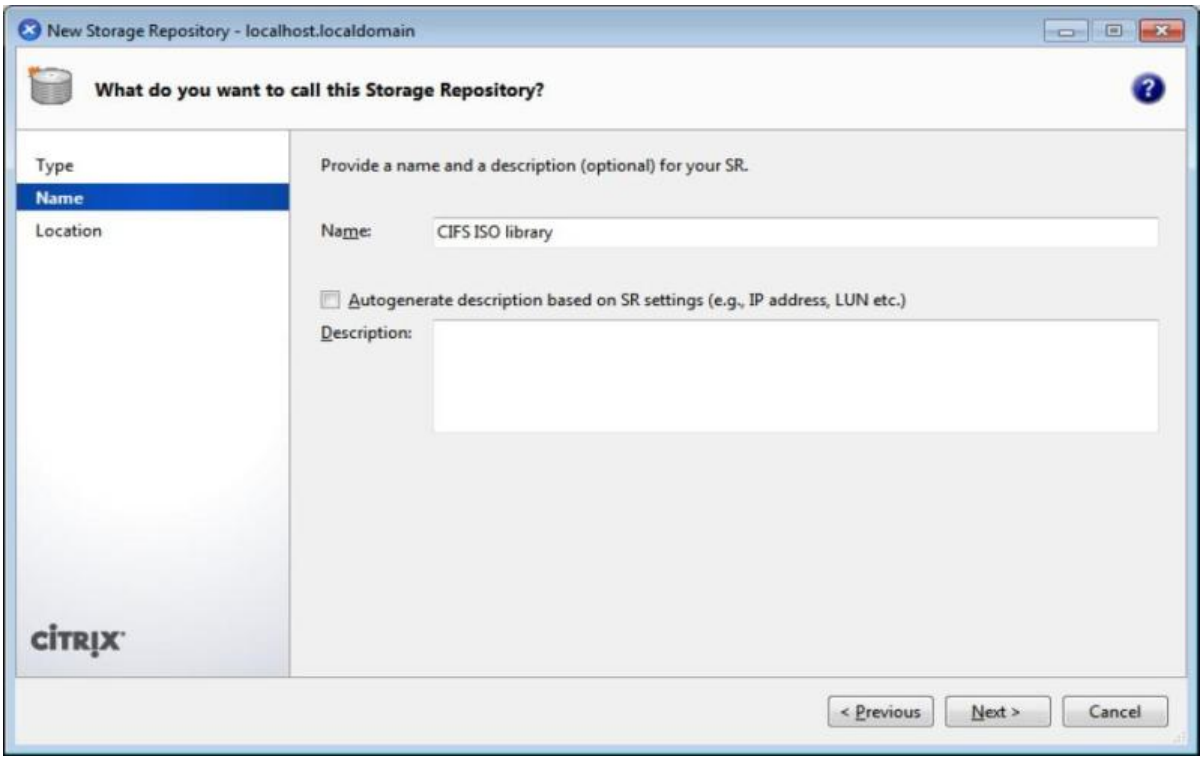
Now Click on New Storage –



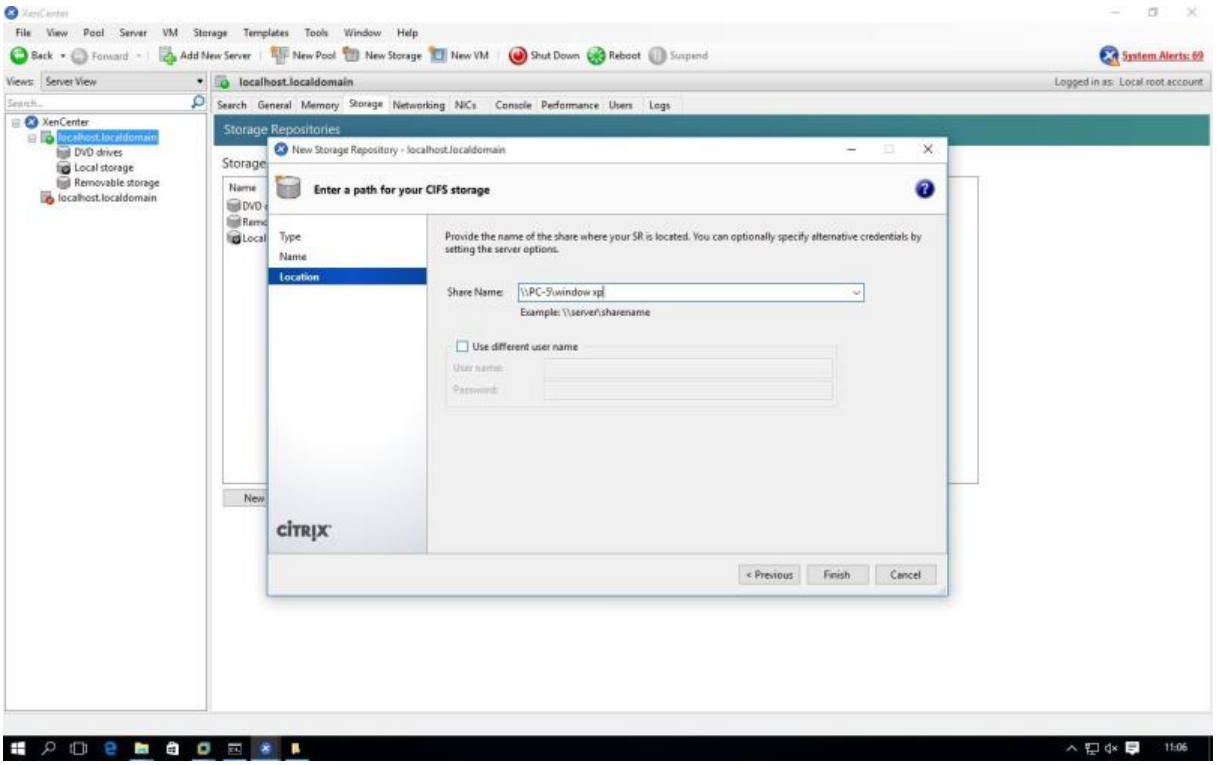
Select Window File Sharing (CIFS) and click on next –



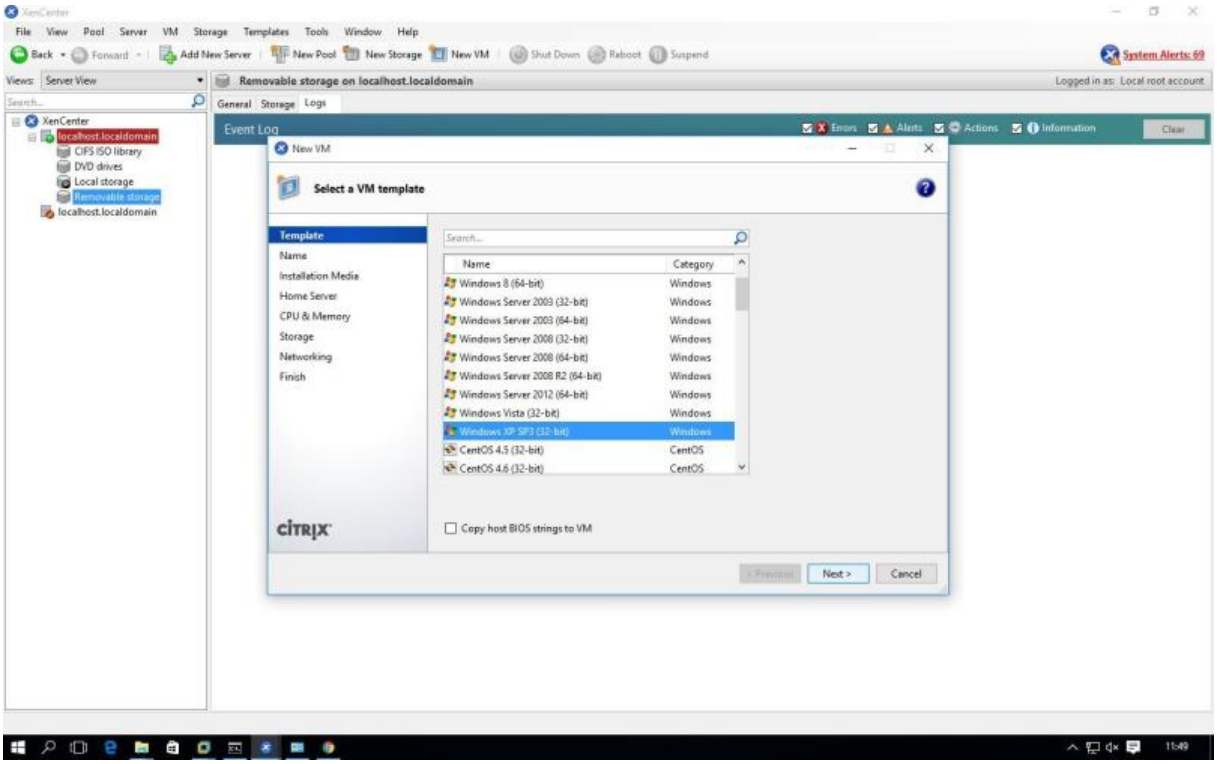
Uncheck Auto generate option Click on Next



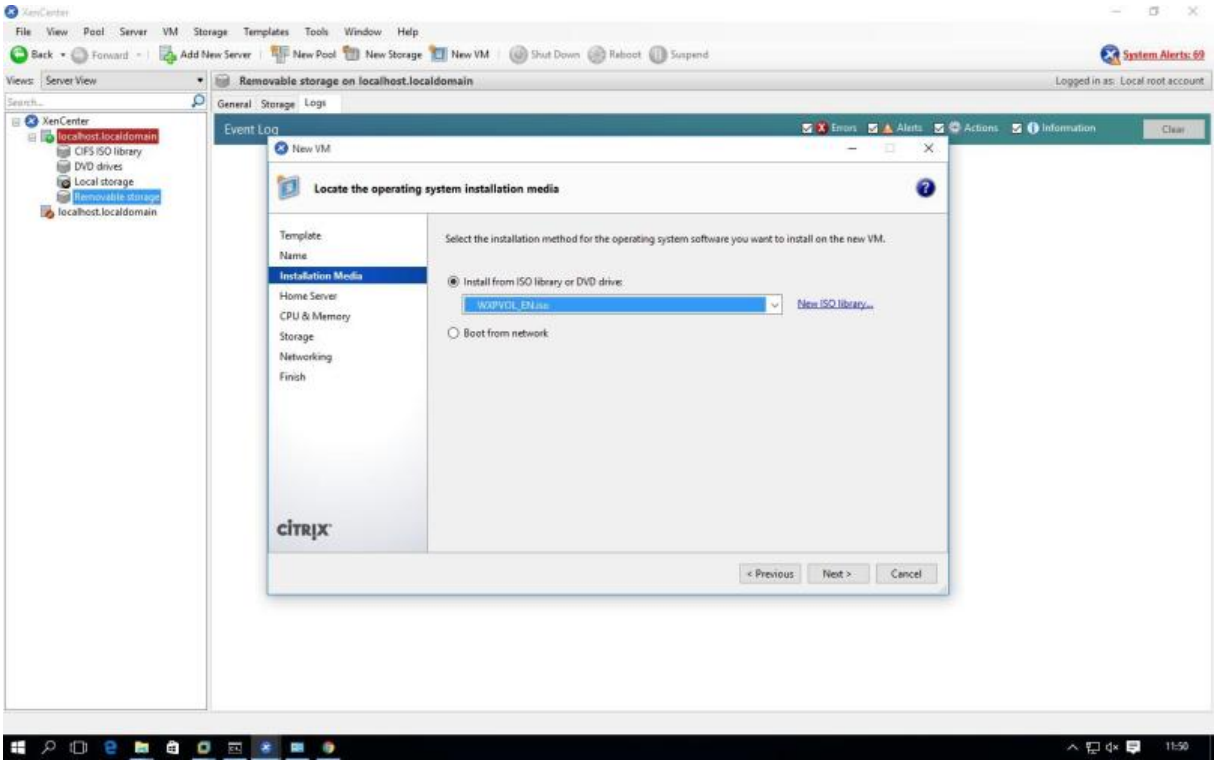
Provide the path of shared windows XP image and enter local pc credential ,, click on Finish



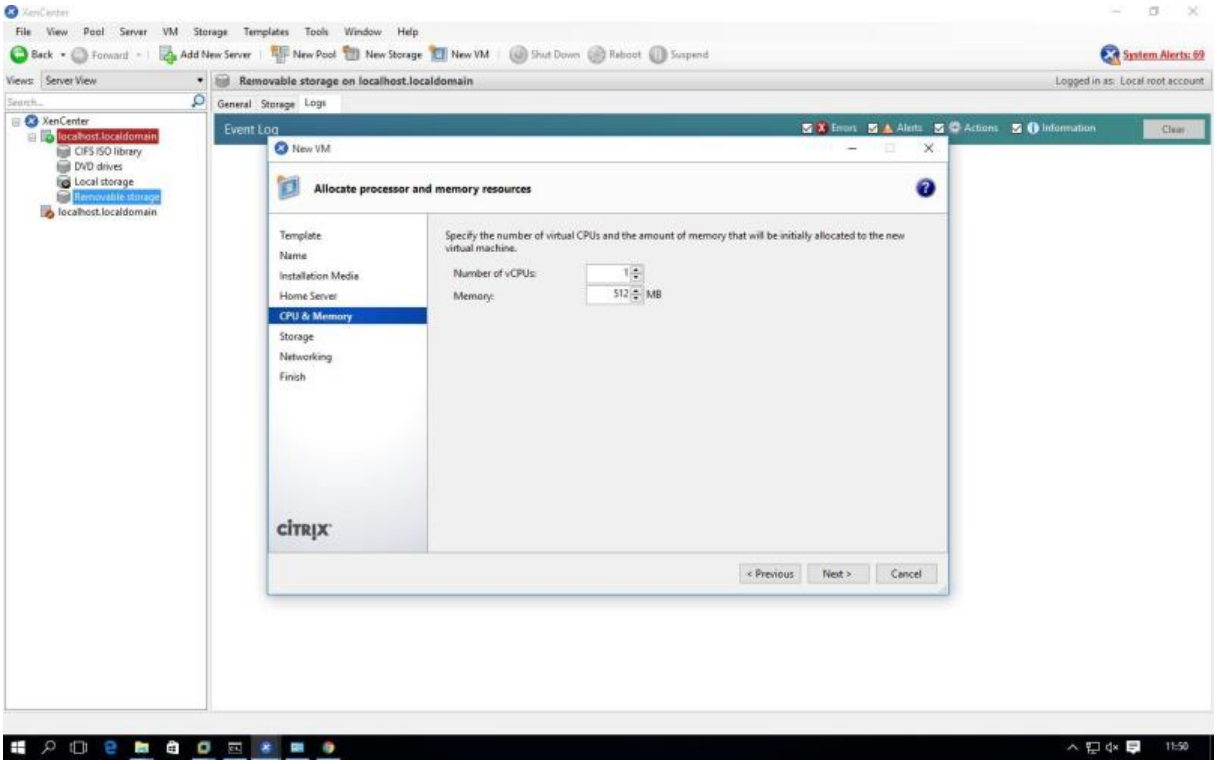
Click on New VM – and Windows XP SP3



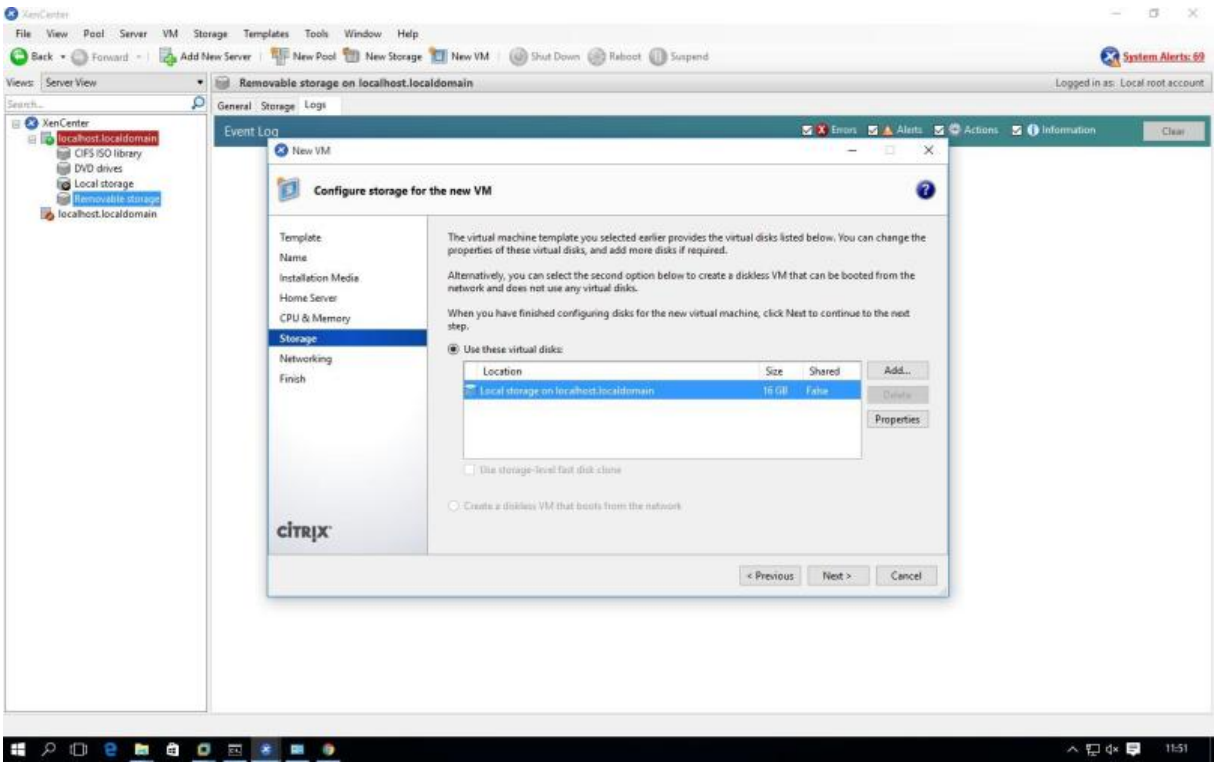
Select ISO file and click on next –



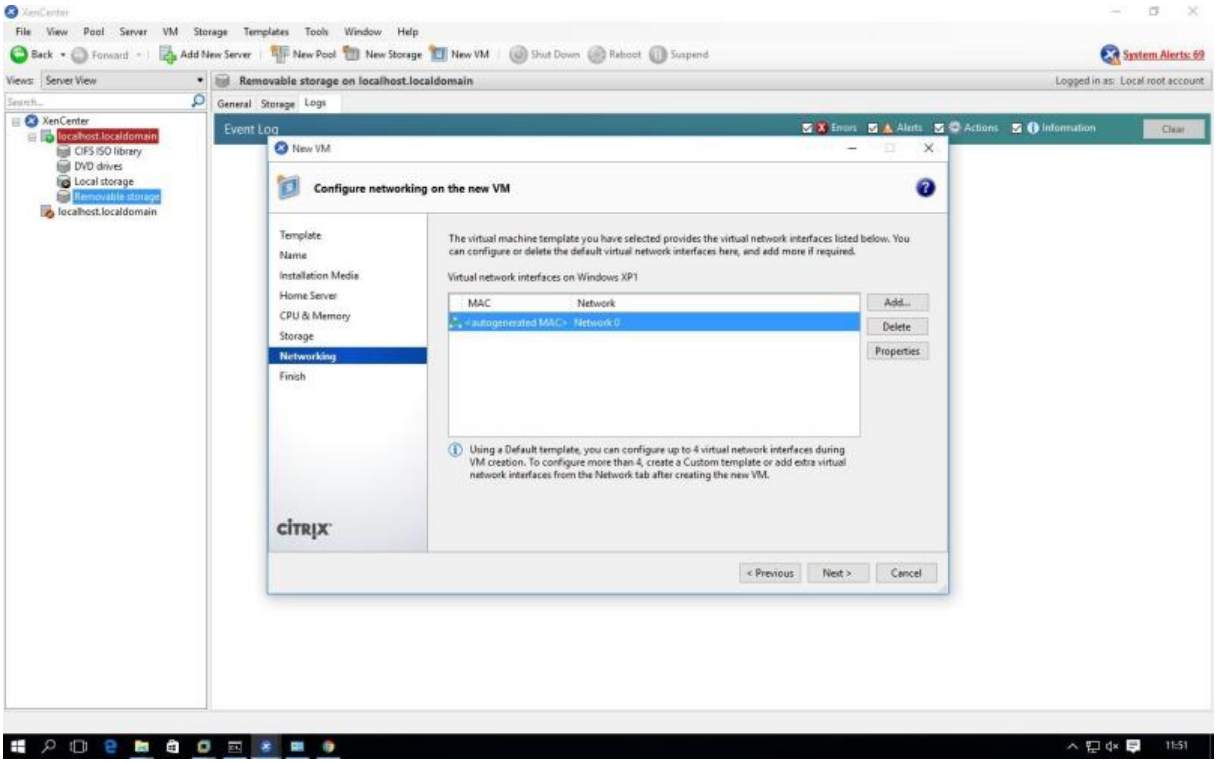
Next –



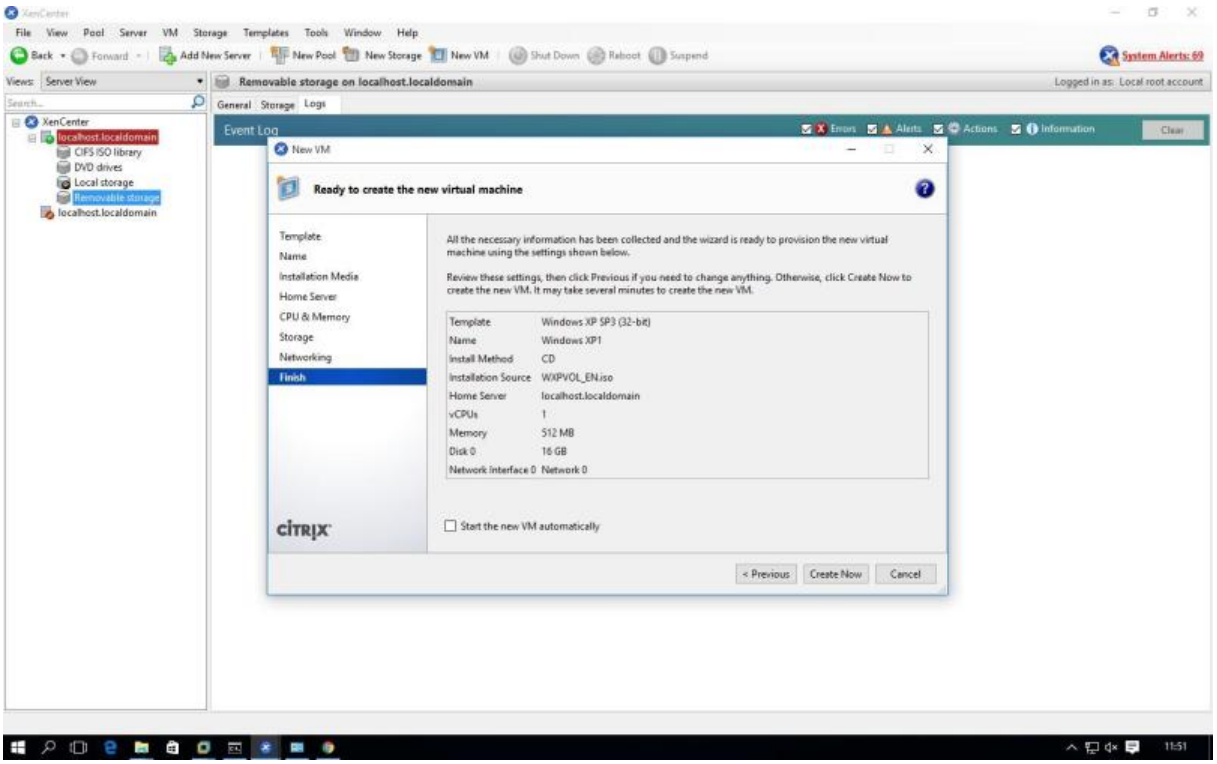
Next-

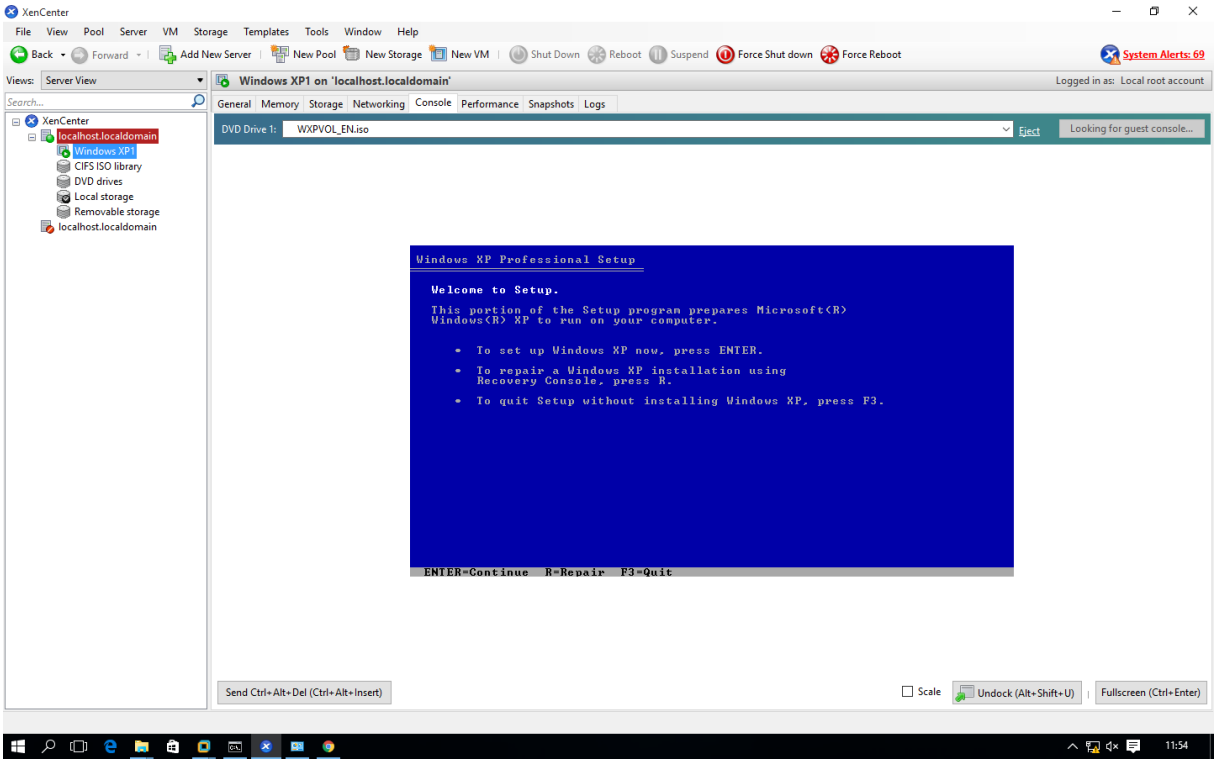


Next-



Uncheck – Start the new VM and click on create now

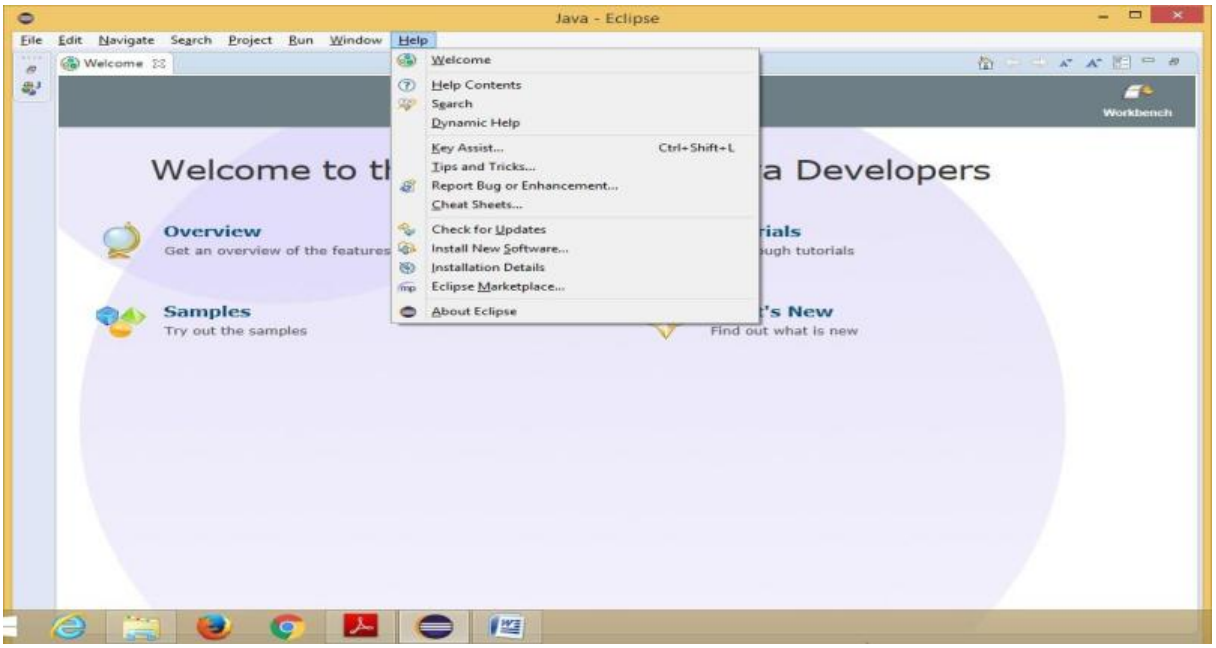



XenCenter
File View Pool Server VM Storage Templates Tools Window Help
Back Forward Add New Server New Pool New Storage New VM Shut Down Reboot Suspend Force Shut down Force Reboot
System Alerts: 69
Views: Server View
Search...
XenCenter
localhost.localdomain
Windows XP1
CIFS ISO library
DVD drives
Local storage
Removable storage
localhost.localdomain
Windows XP1 on 'localhost.localdomain'
Logged in as: Local root account
General Memory Storage Networking Console Performance Snapshots Logs
DVD Drive 1: WXPVOL_EN.iso
Eject
Looking for guest console...
Windows XP Professional Setup
Welcome to Setup.
This portion of the Setup program prepares Microsoft(R)
Windows(R) XP to run on your computer.
• To set up Windows XP now, press ENTER.
• To repair a Windows XP installation using
Recovery Console, press R.
• To quit Setup without installing Windows XP, press F3.
ENTER=Continue R=Repair F3=Quit
Send Ctrl+Alt+Del (Ctrl+Alt+Insert)
Scale
Undock (Alt+Shift+U)
Fullscreen (Ctrl+Enter)
11:54

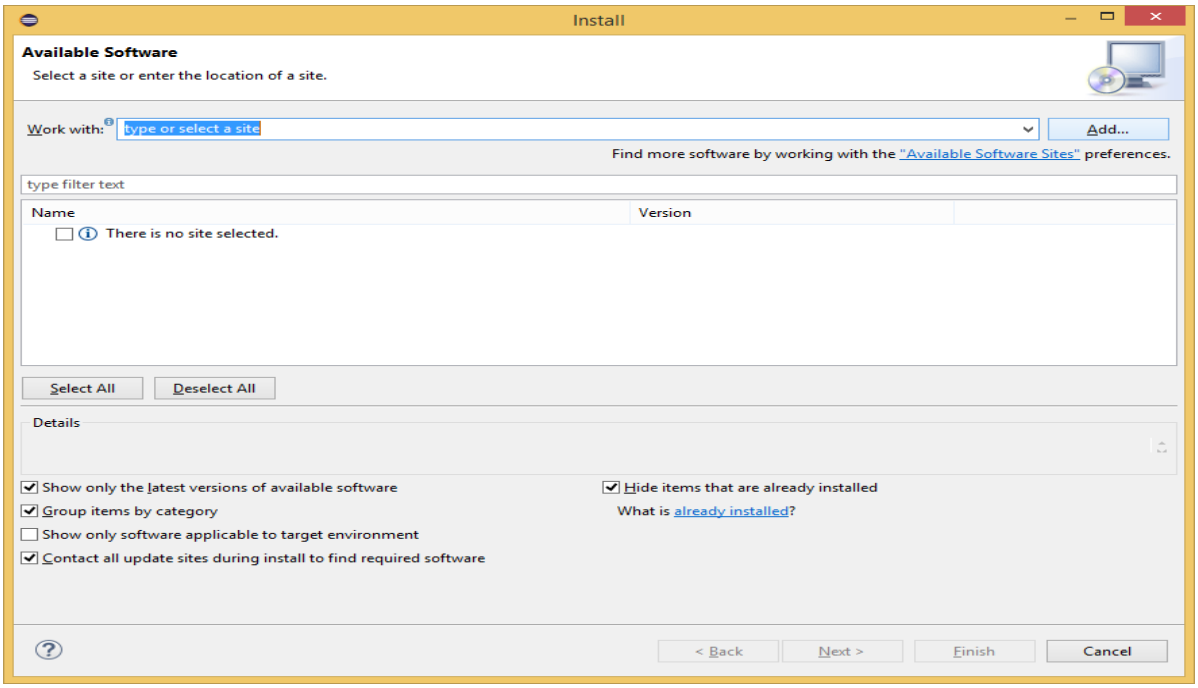
PRACTICAL: 4

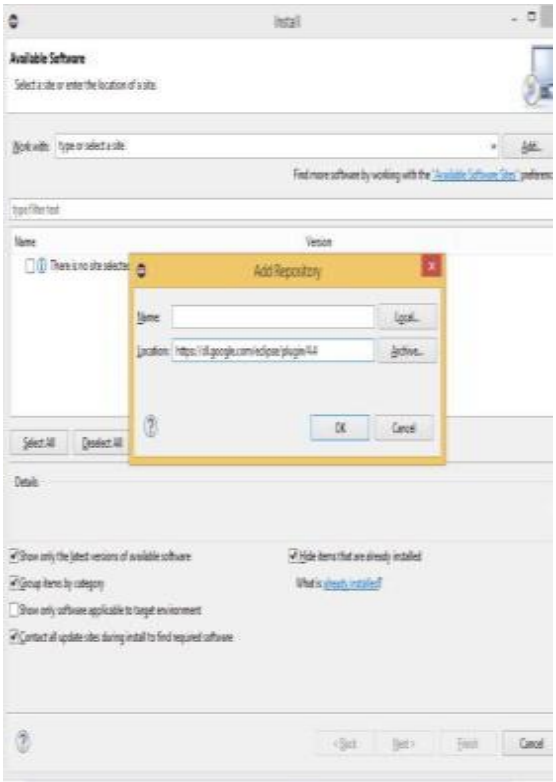
IMPLEMENT SEARCH ENGINE _ GOOGLE APP ENGINE (GAE)

Open Eclipse Luna. Go to **Help Menu Install New Software…---------**

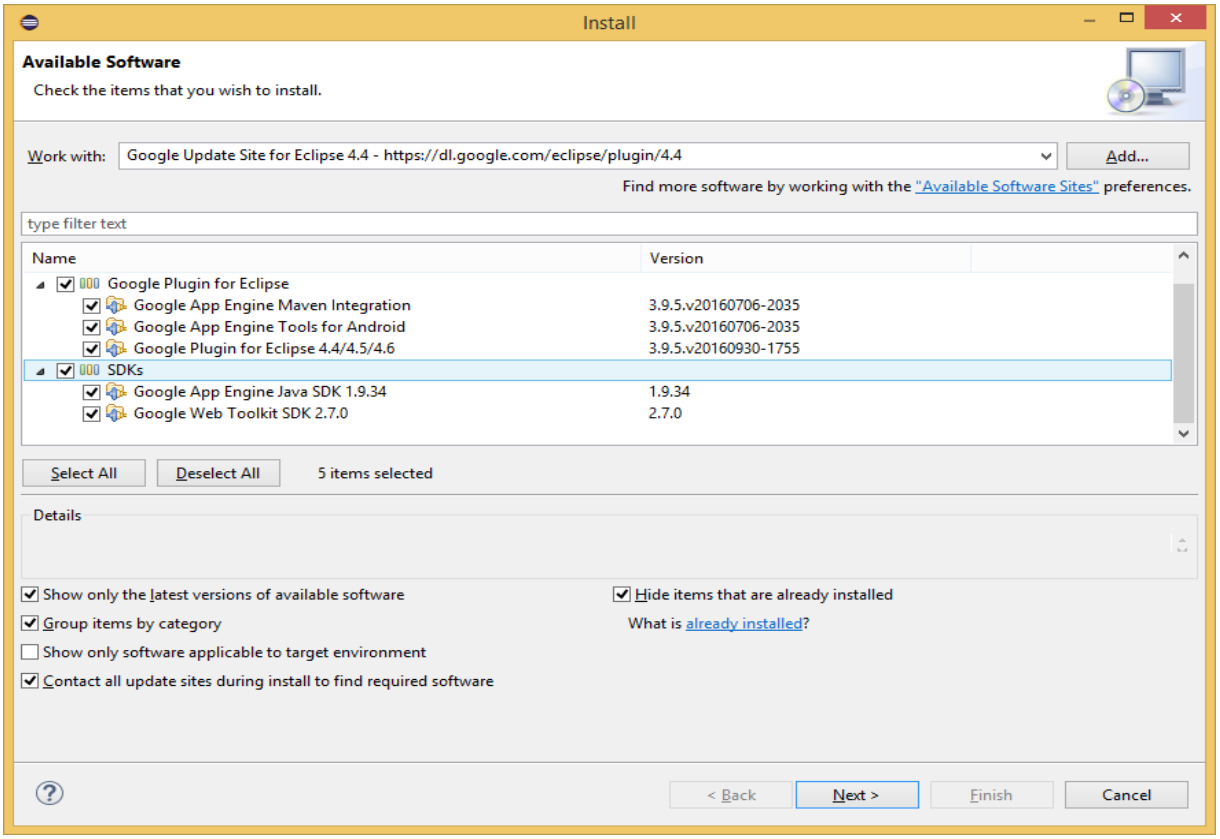


In **Install** window Click on the **“Add”** button besides the **Work with** textbox. **Add Repository**
window appears. Enter the **Location** as **“https://dl.google.com/eclipse/plugin/4.4”** and click
on **“OK”** button**.**

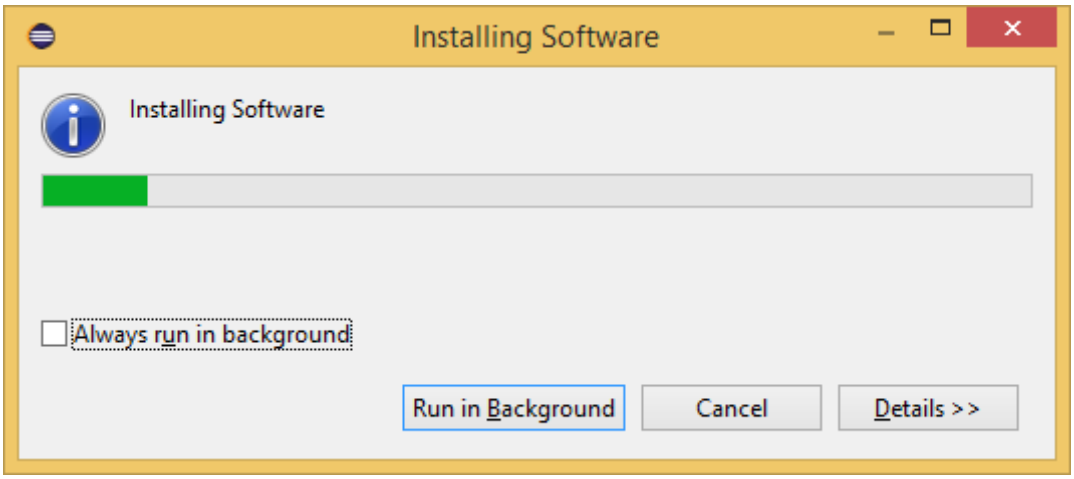




From the available software, select the required software and tools as shown in the below image for the **GAE**. Then click on the **“Next”** button.

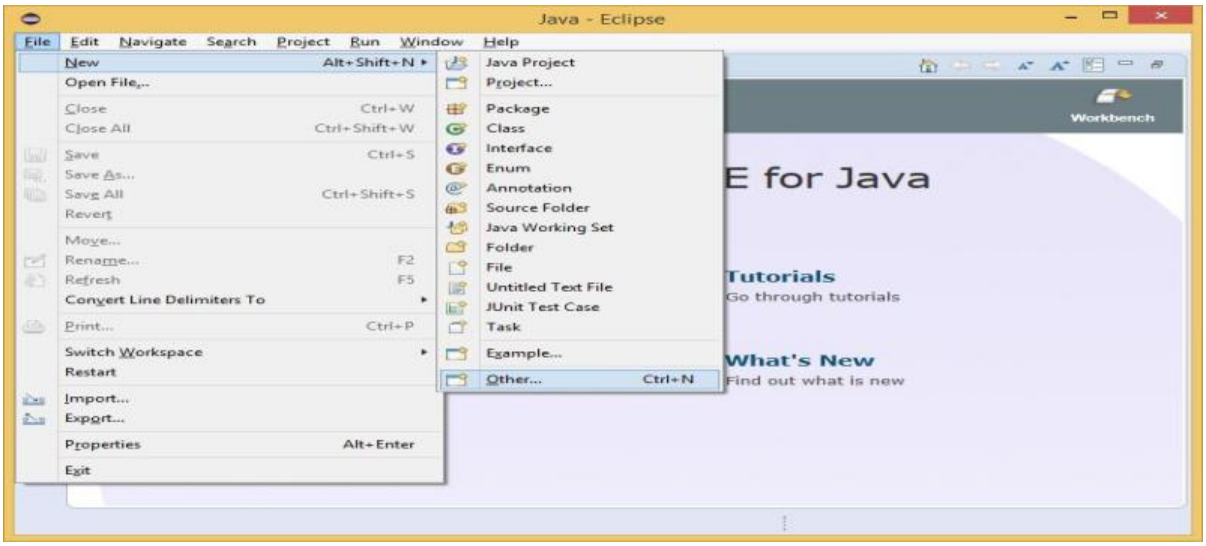


In the **Install Details** window click on **“Next”** button.
In the Next Window "Review the Items to be Installed" then click on **“Next”**
In the next window for Review Licenses select the option **“I accept……”** and click on **“Finish”** button.

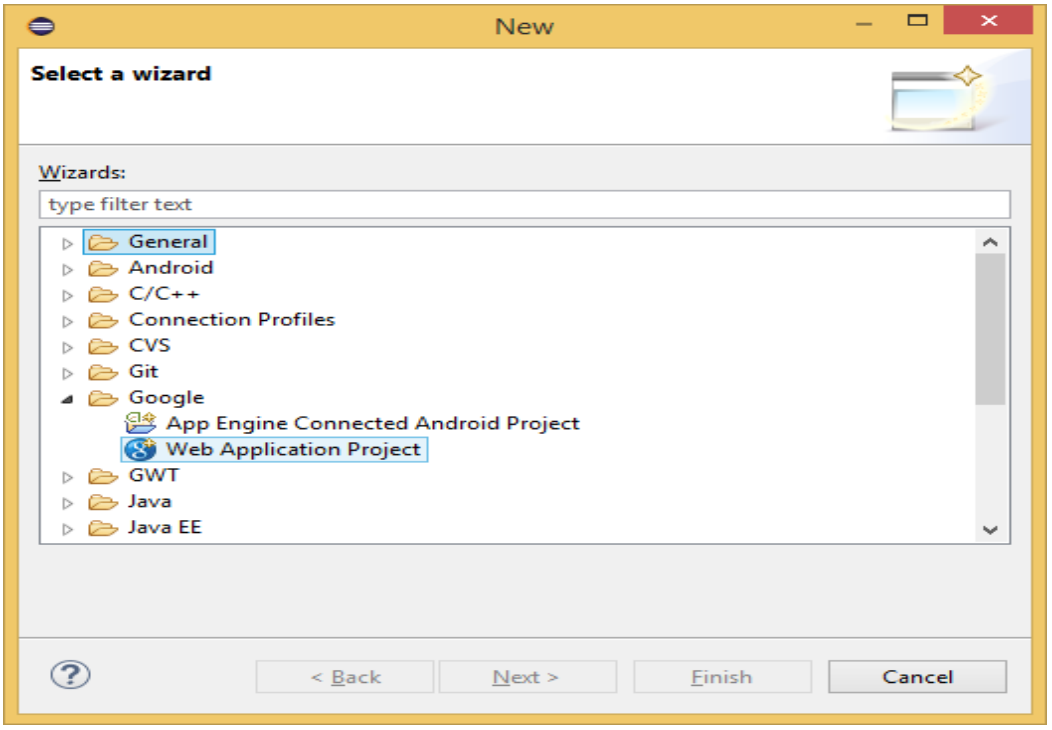


The installation is in progress…
After Installation you will get option to **"Restart Eclipse",** click on **Yes.**
So that the software you selected gets updated...

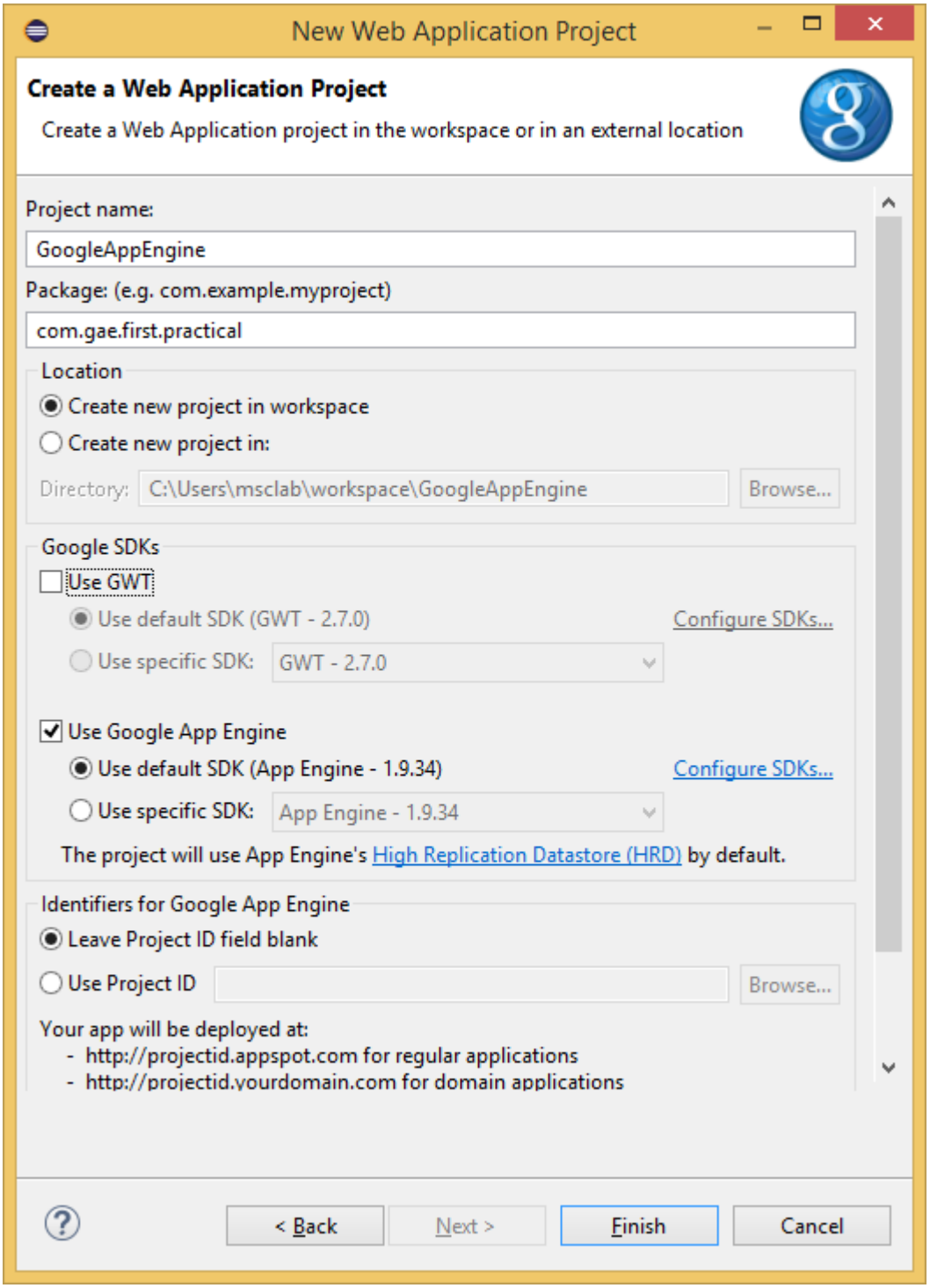
Now, go to **FileMenu**->**New**->**Other**



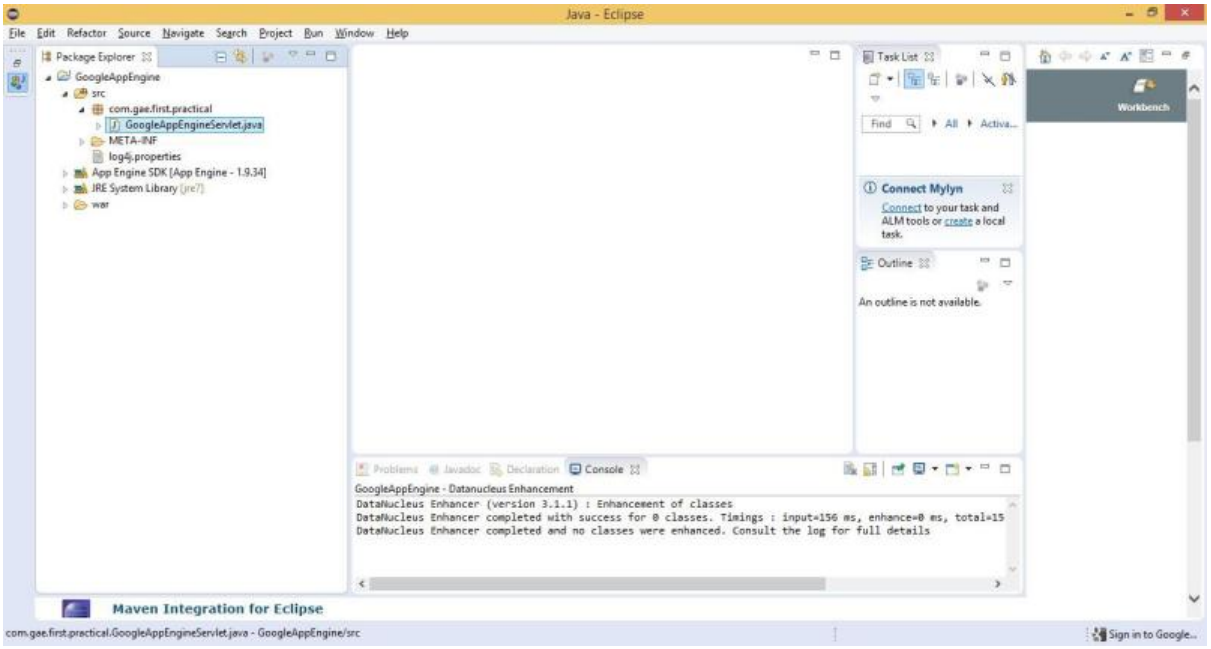
In the New window select **Google_Web Application Project** and click on **"Next"** button.



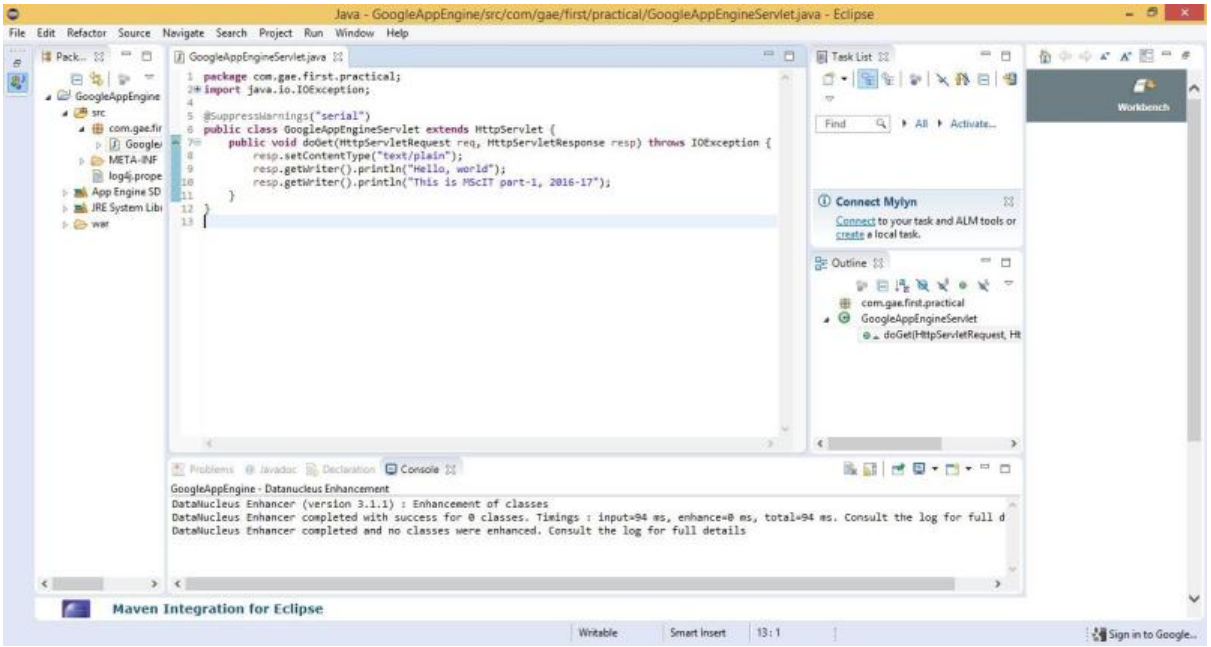
Enter the details for the new Web application project. Deselect the **Use Google Web Toolkit** option under the section **Google SDKs**. Click on the **"Finish"** button.



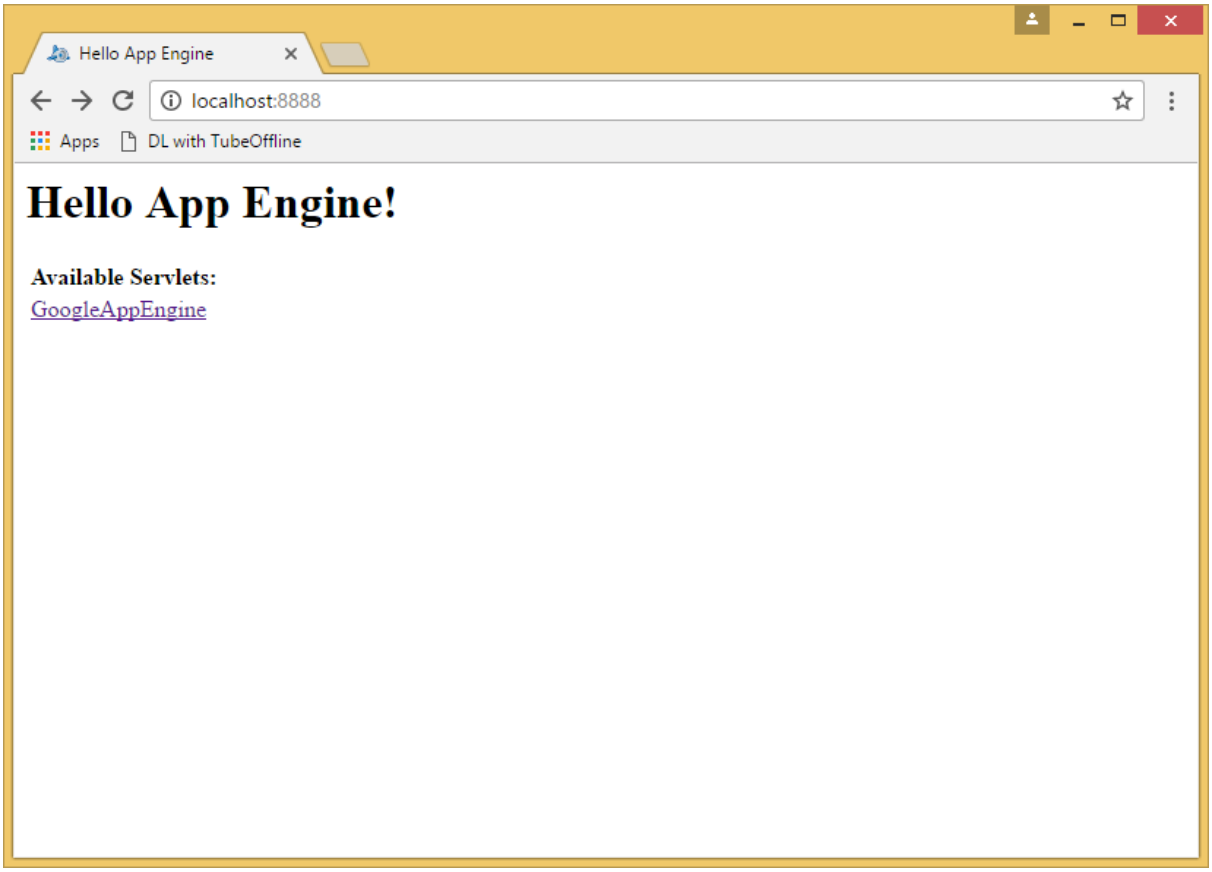
From the **Package Explorer** open the **.java** file (Here it is **“Google_App_EngineServlet.java”**).



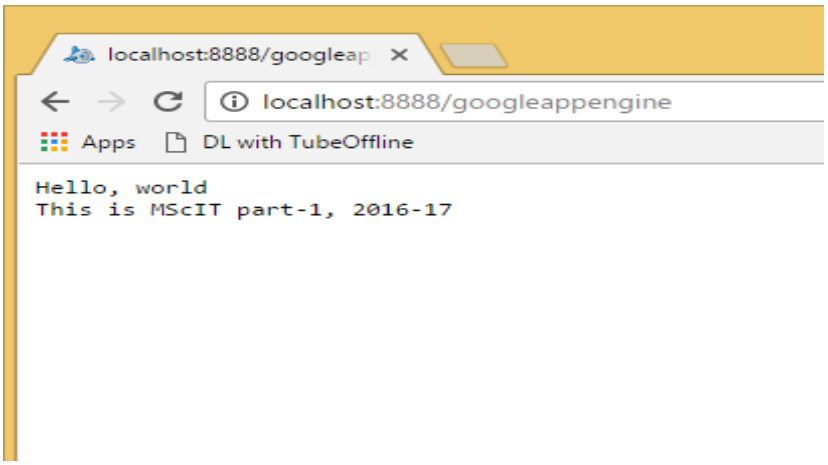
Edit the file as required (Unedited file too can be used. Here the editing is done to “what should be displayed” on the browser). **Save** the file. Click on the **Run** option available on the Tools bar.



In the browser (Here, Google Chrome) type the address as **“localhost:8888” which is "Default"**.



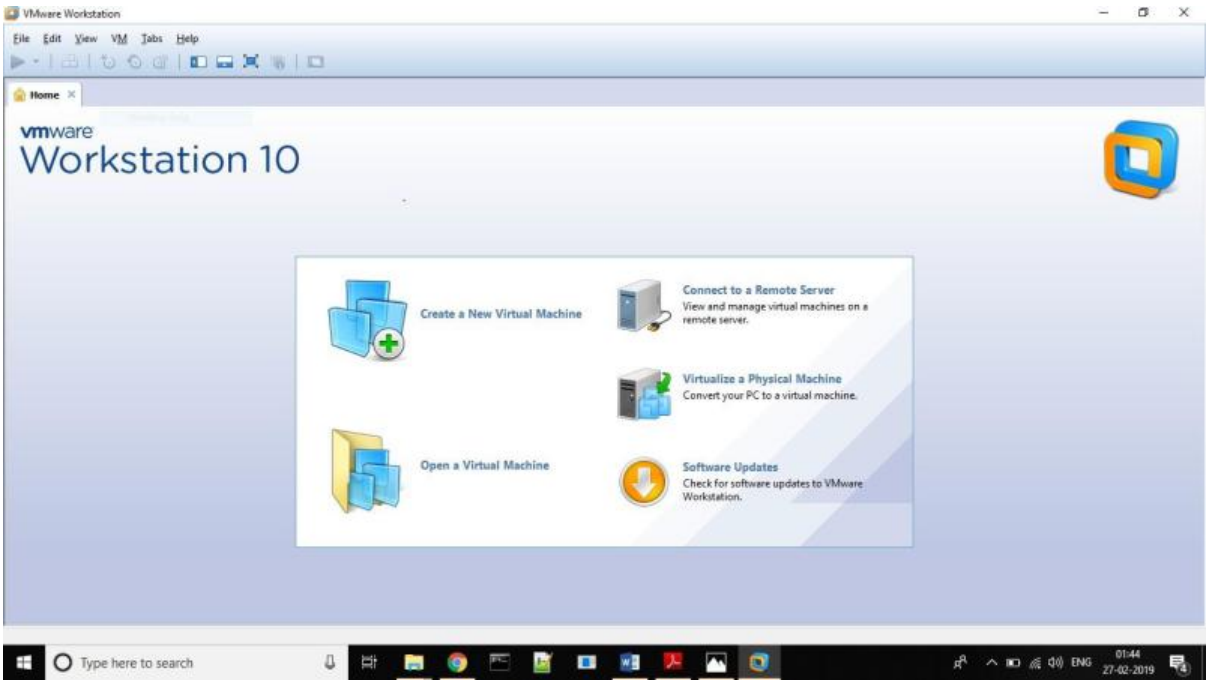
In **localhost:8888** link to the **Google_App_EngineServlet.java** file as **Google_App_Engine** is displayed. Click on this link. It will direct you to **“localhost:8888/Google_App_Engine”**.



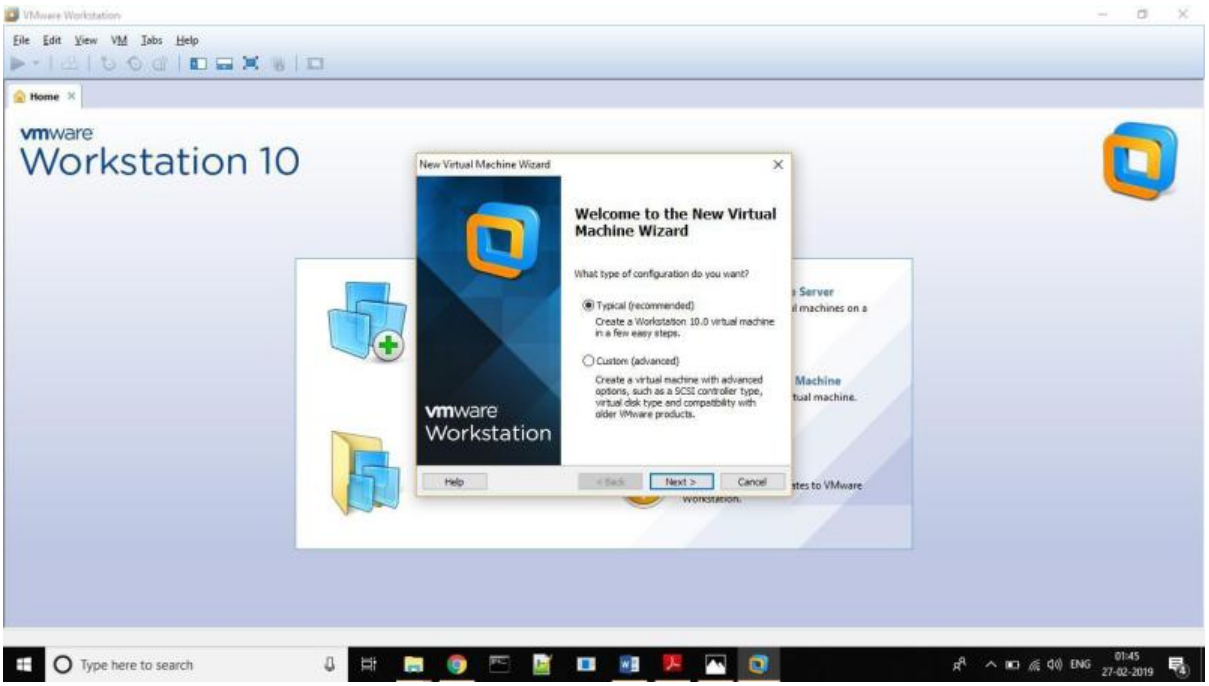
The **output text entered** in the **java** program is **displayed as the output** when clicked the link
“Google_App_Engine”.

PRACTICAL: 5
IMPLEMENT ESXi SERVER

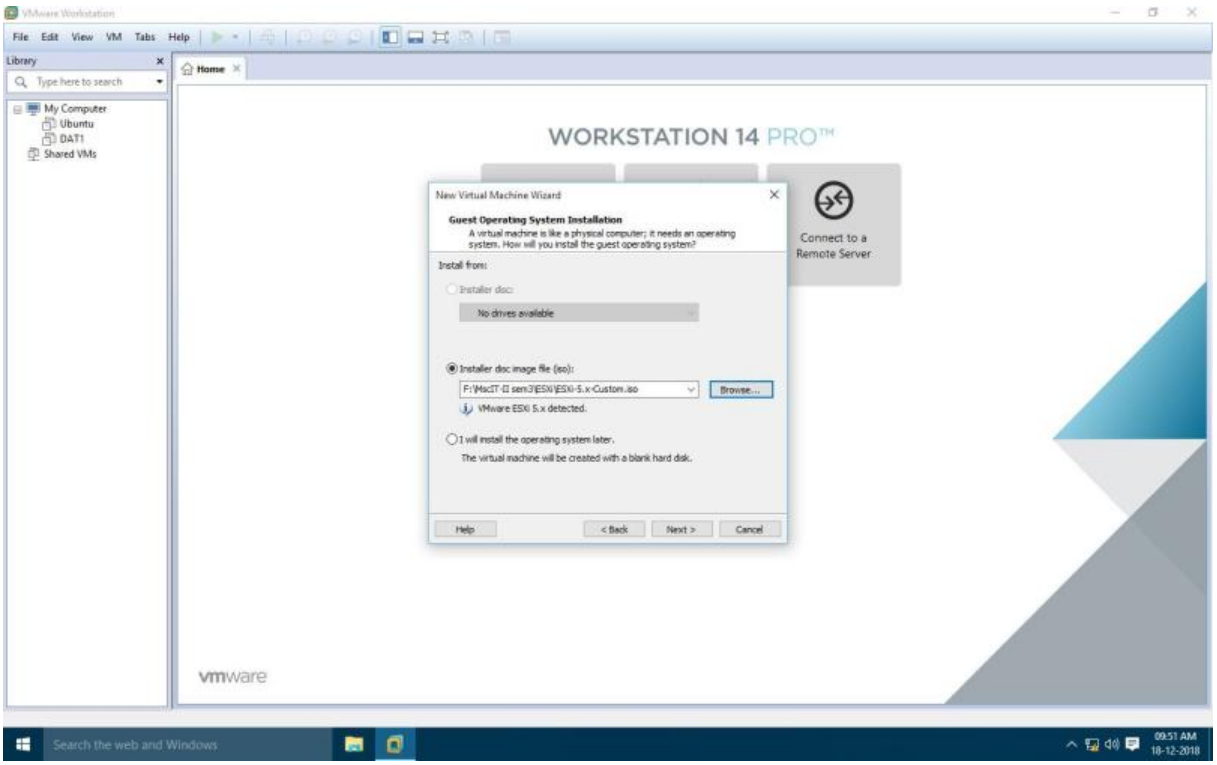
Steps: Open VMware Workstation – And select Create a New Virtual Machine



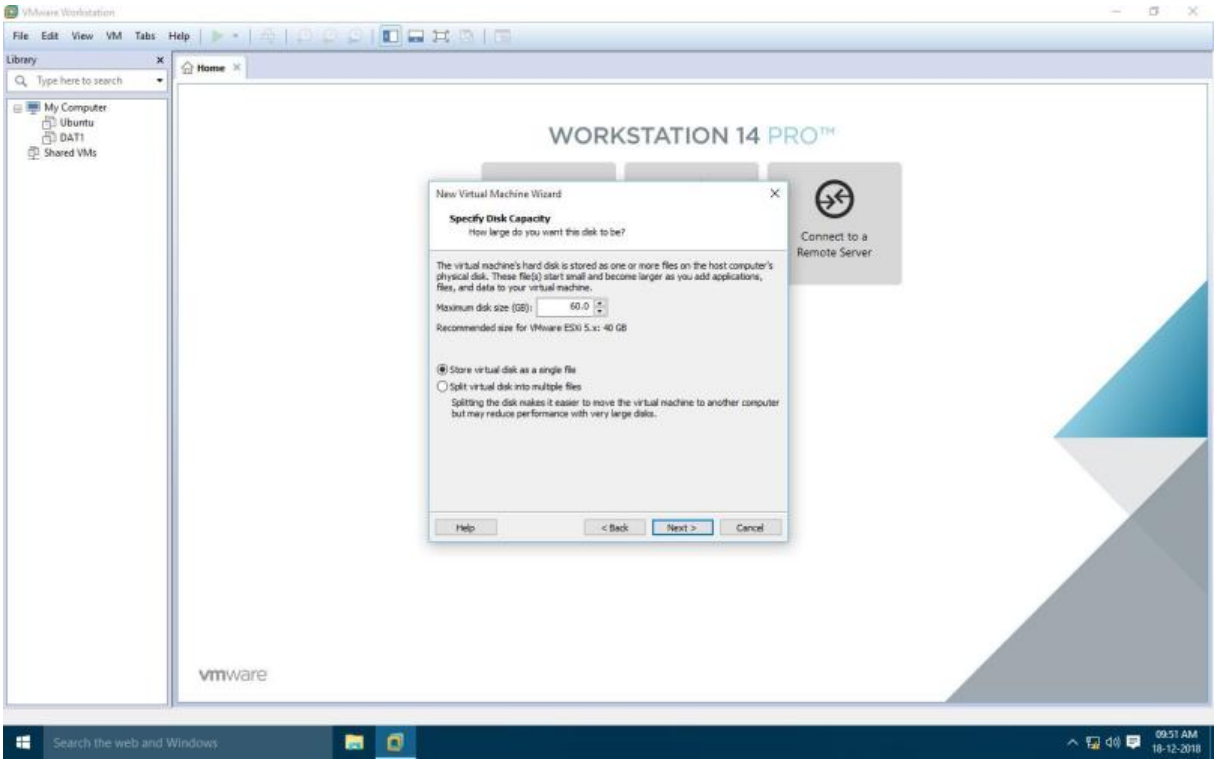
Select Typical and click Next



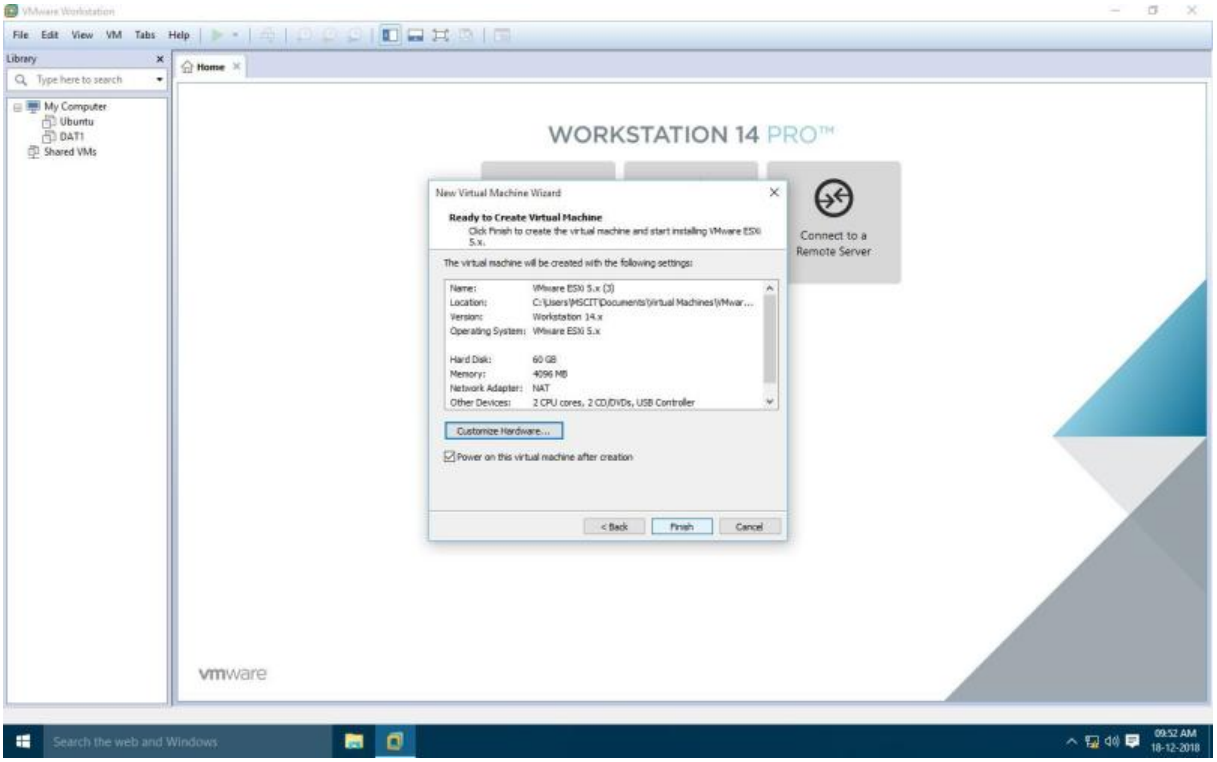
Select Installer disc_image file(ISO). Click Browse -ESXi-5.x-Custom.iso Iso File – For Example "**D:\ccpraxrj\ESXi-5.x-Custom.iso**"
And click on next



Change maximum disk size to 60 GB and check –Store virtual disk as single file

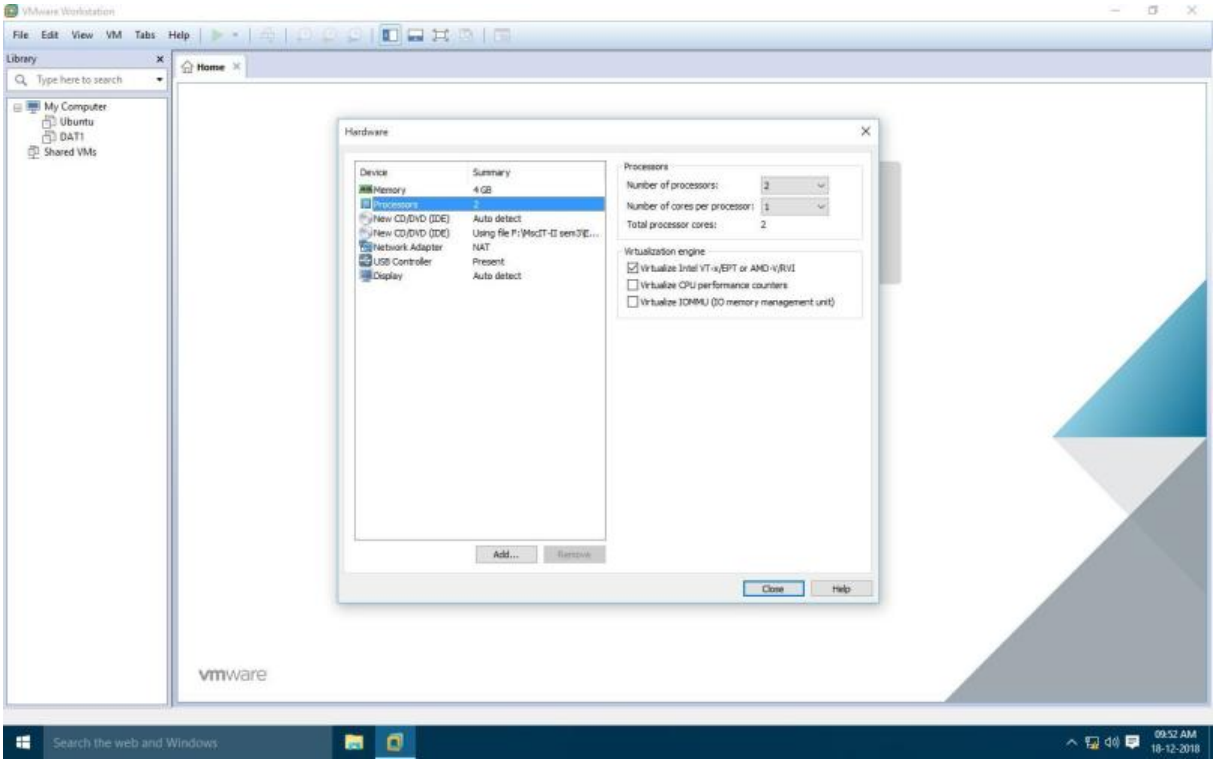


Click on **Customize Hardware option**

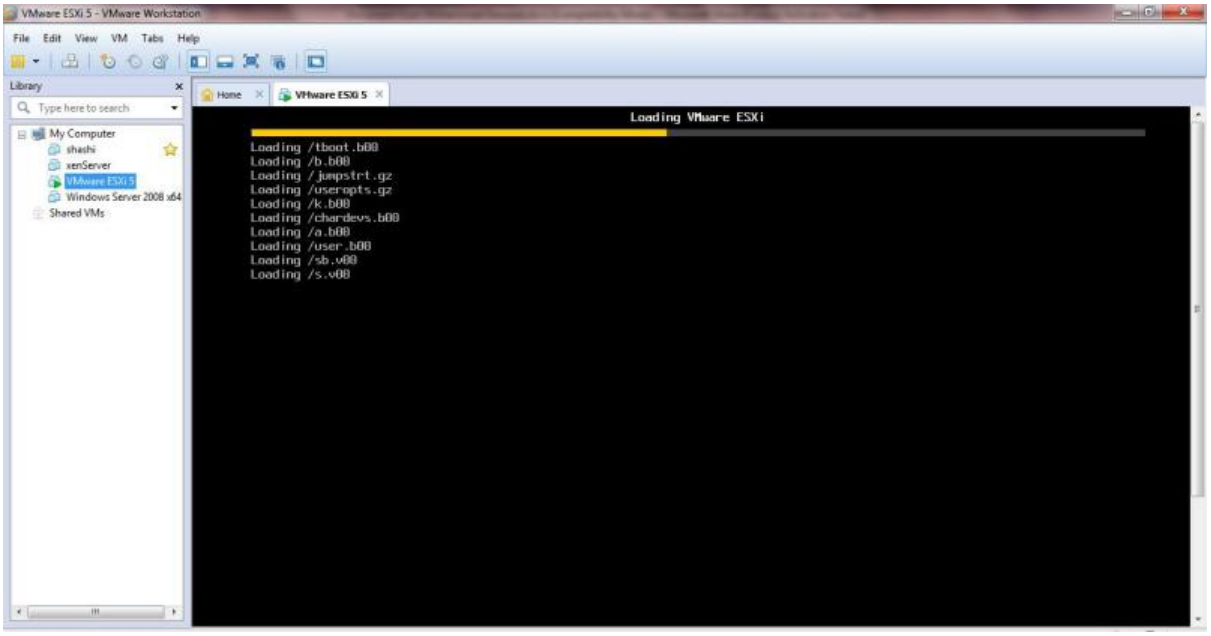


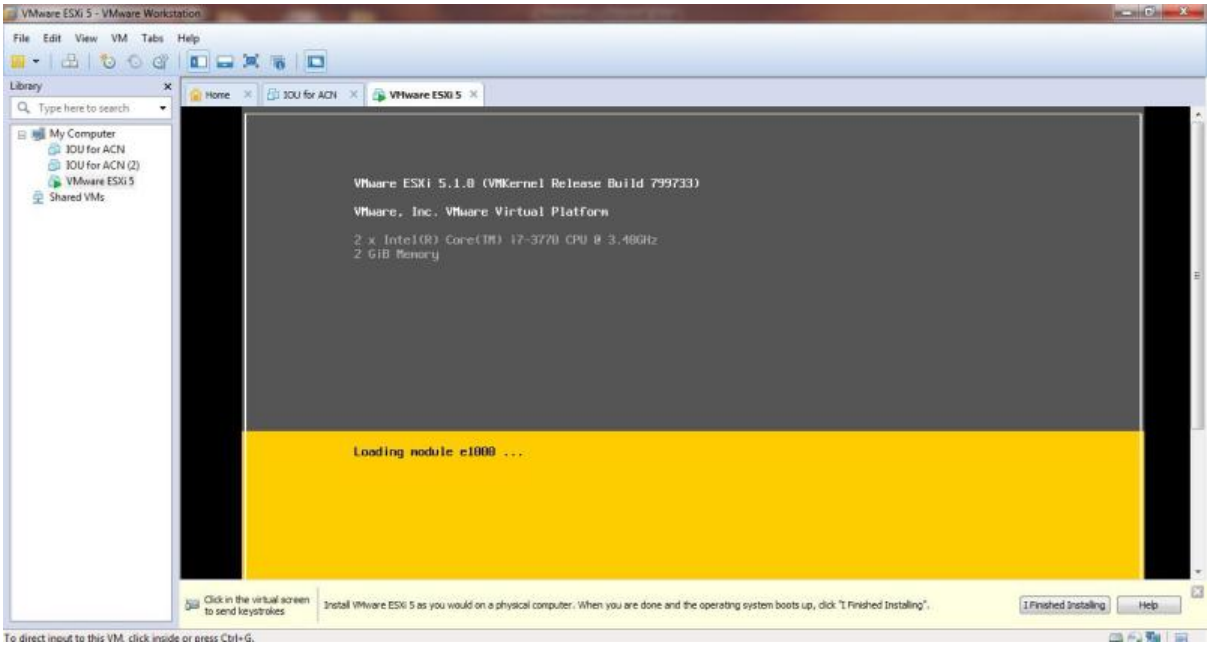
Change – Memory for this virtual machine to 4 GB and Click on Close.

Click on Processor and select virtualize Intel VT

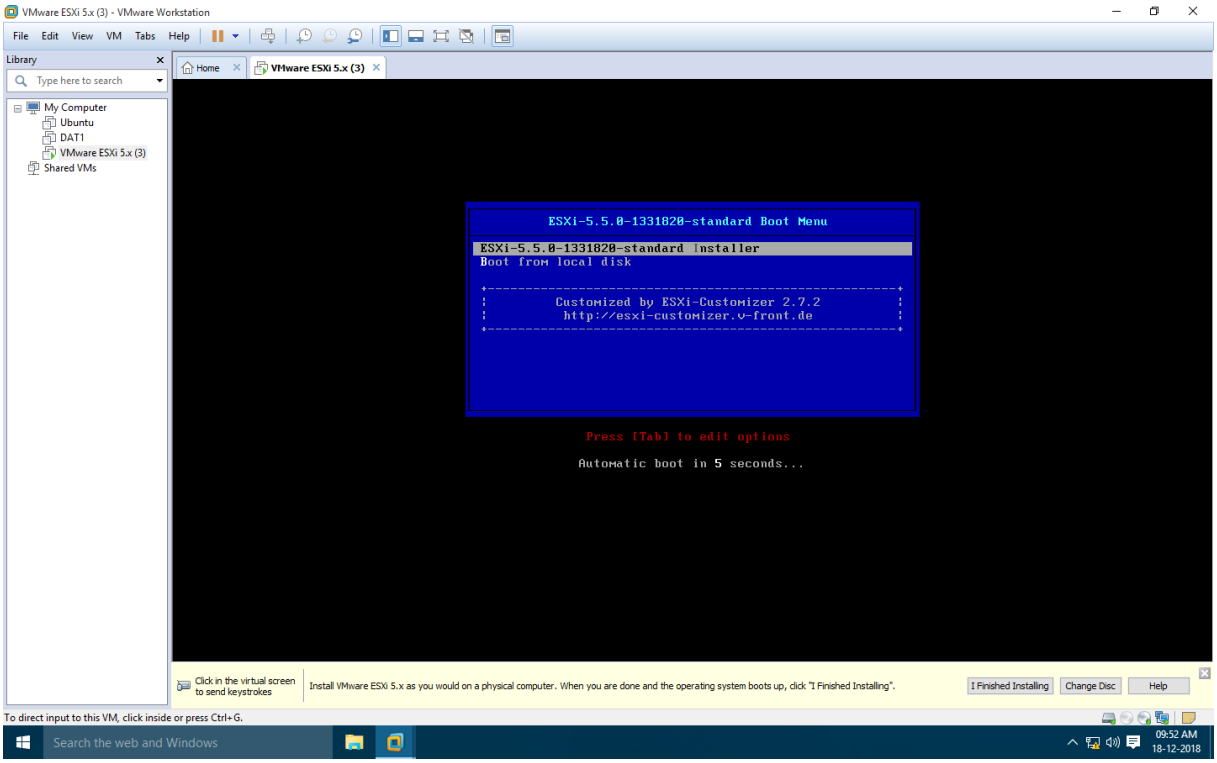


Now Power on newly created Virtual machine –

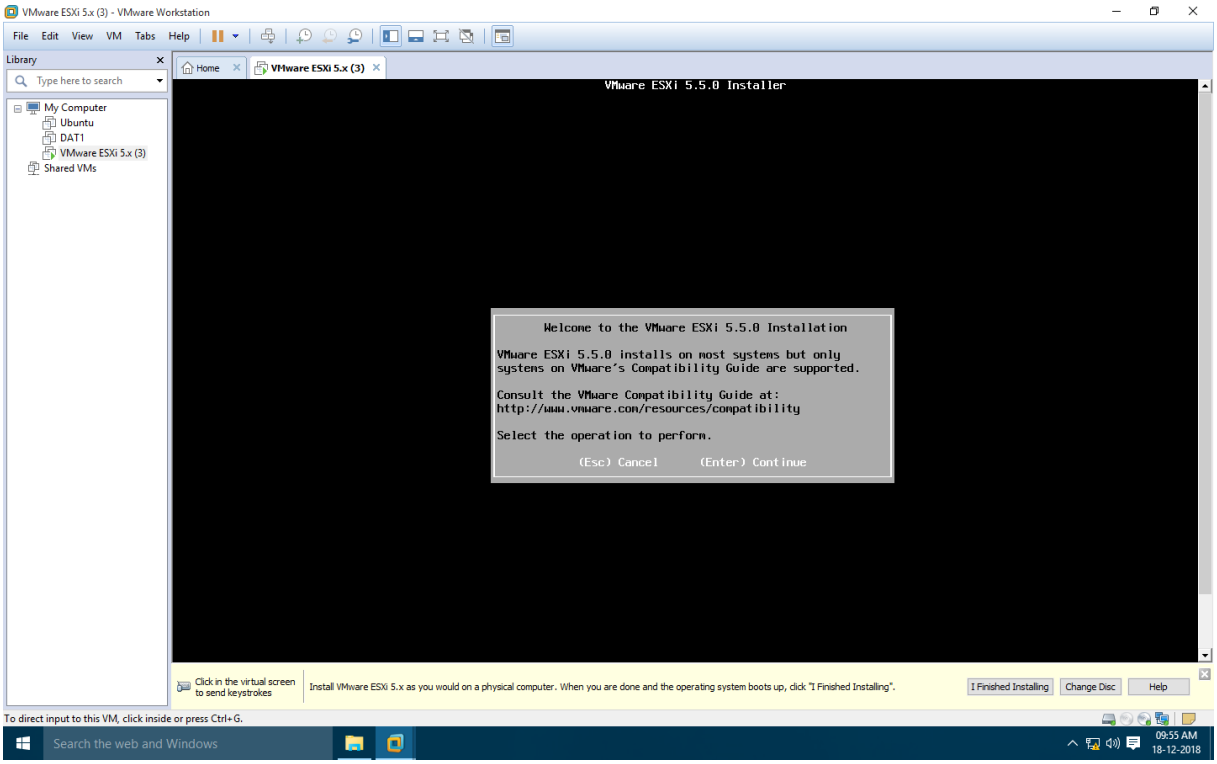




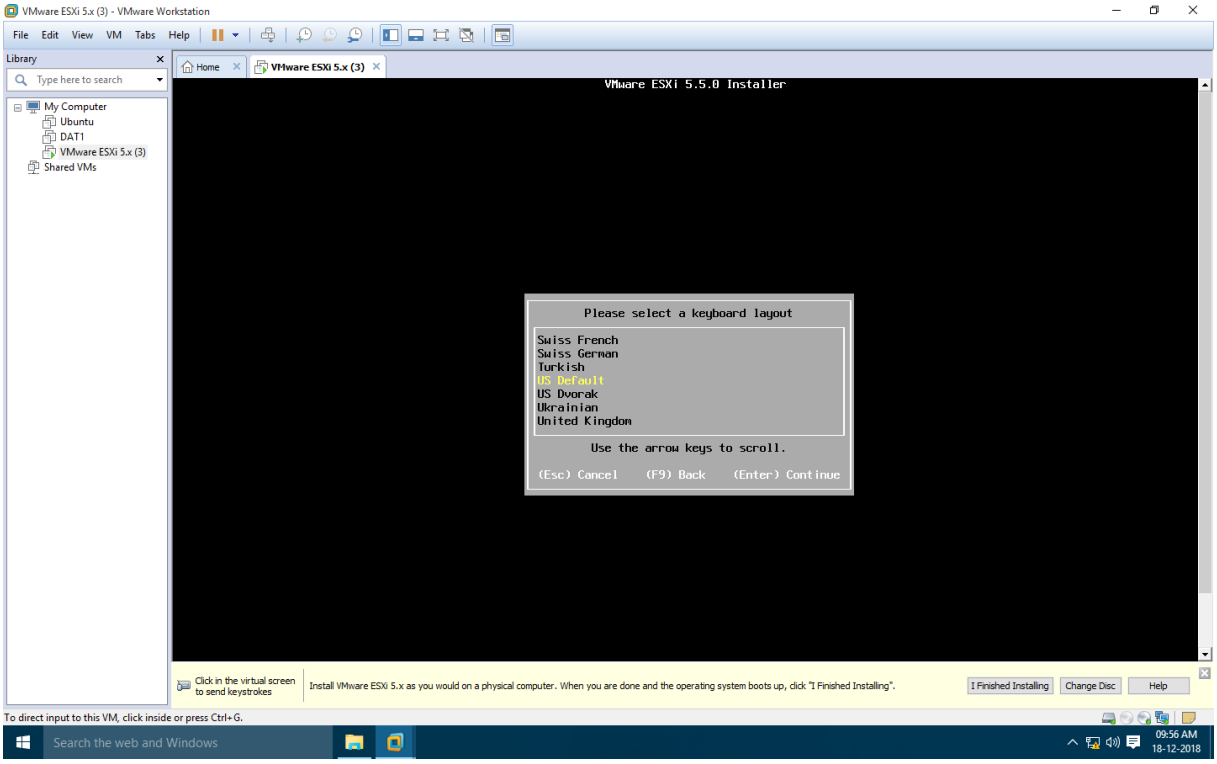
Click on install EXSi server



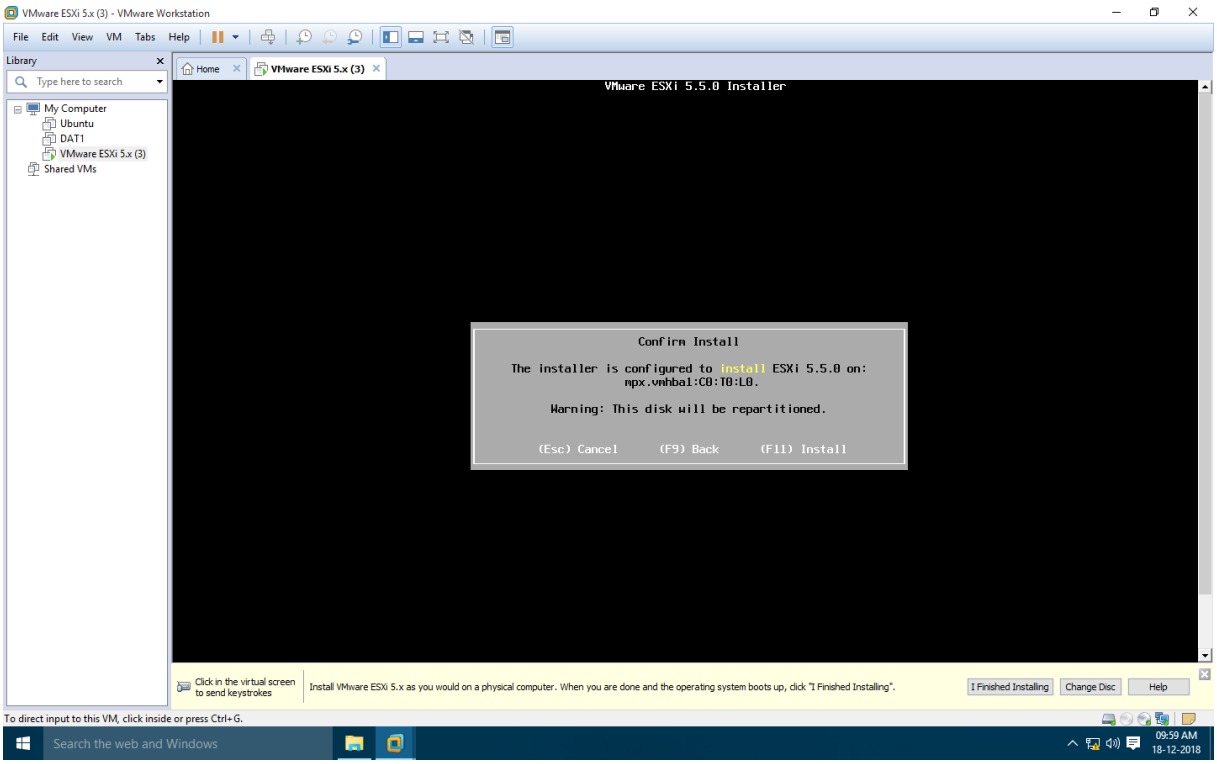
Press enter



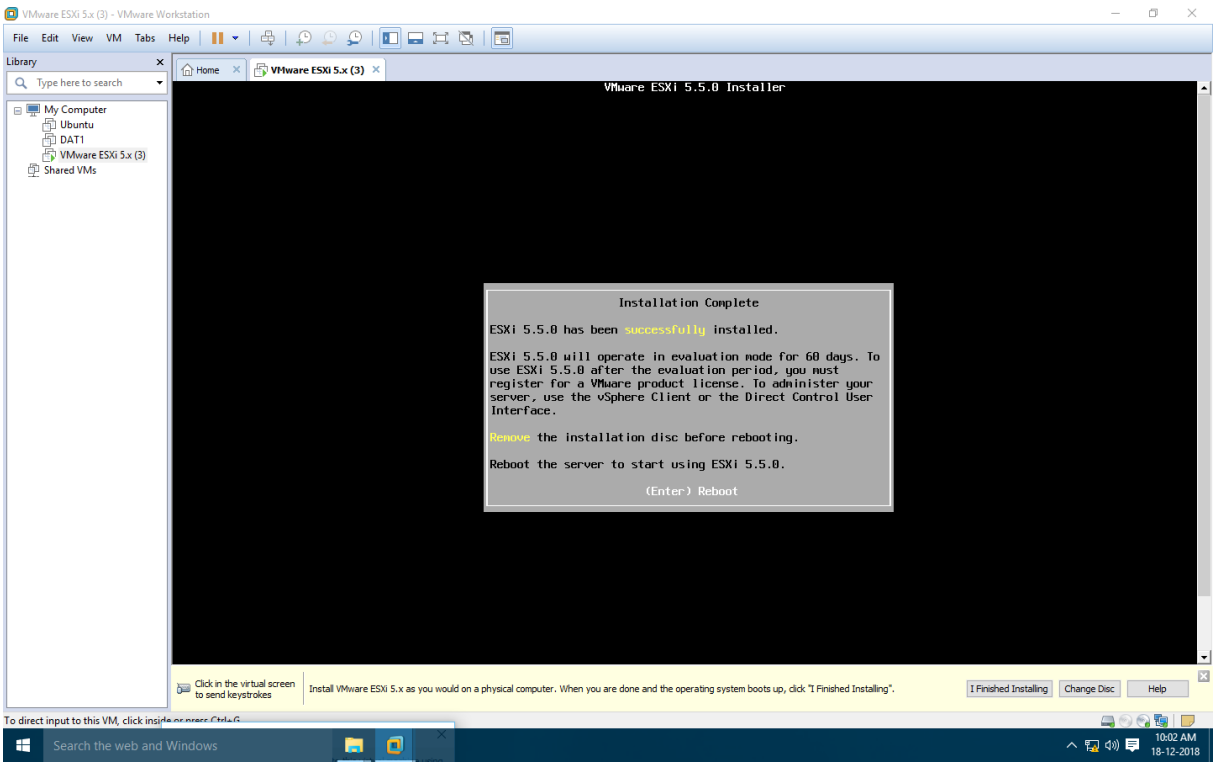
Select us default and click enter

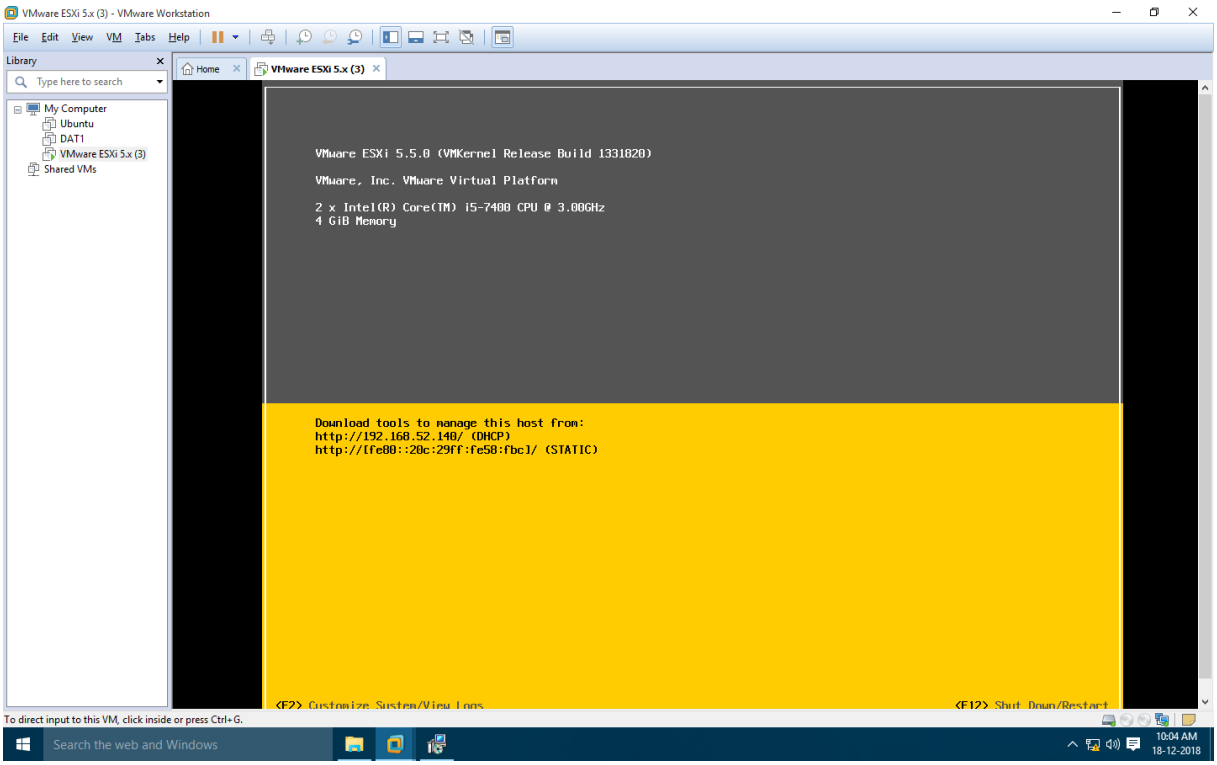


Click install

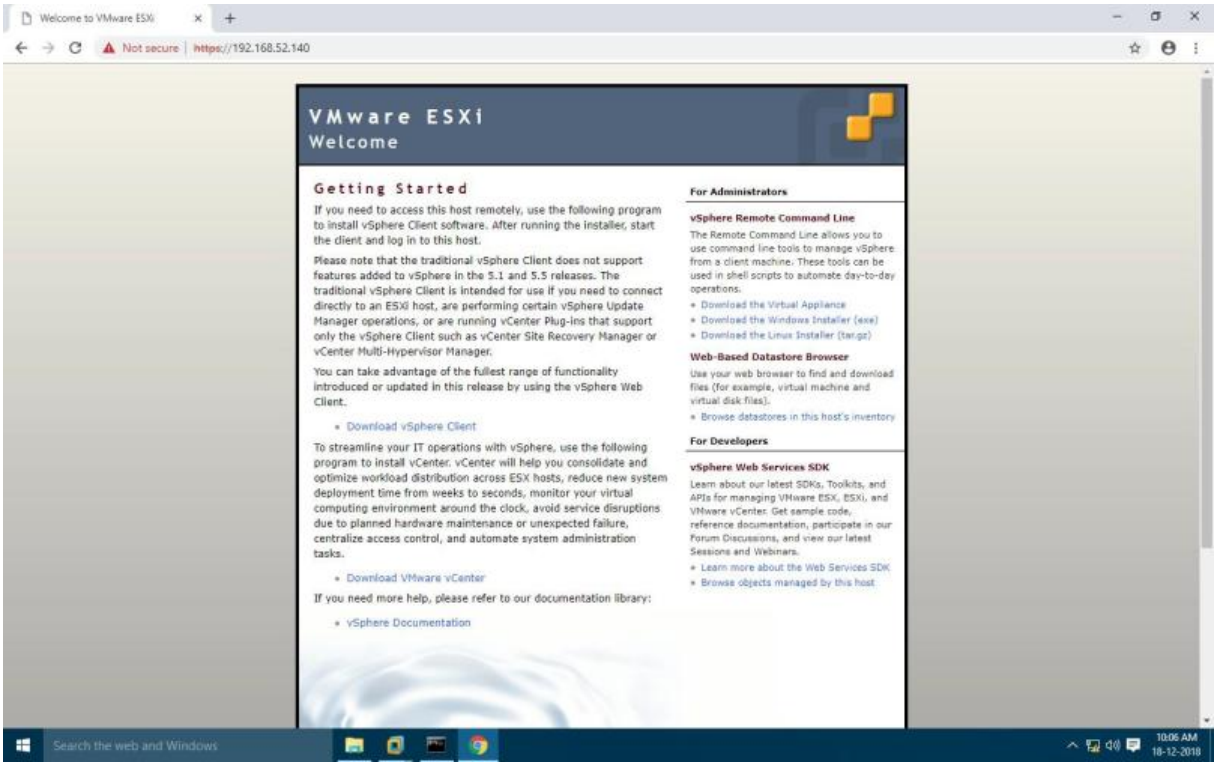


Press enter to reboot the system





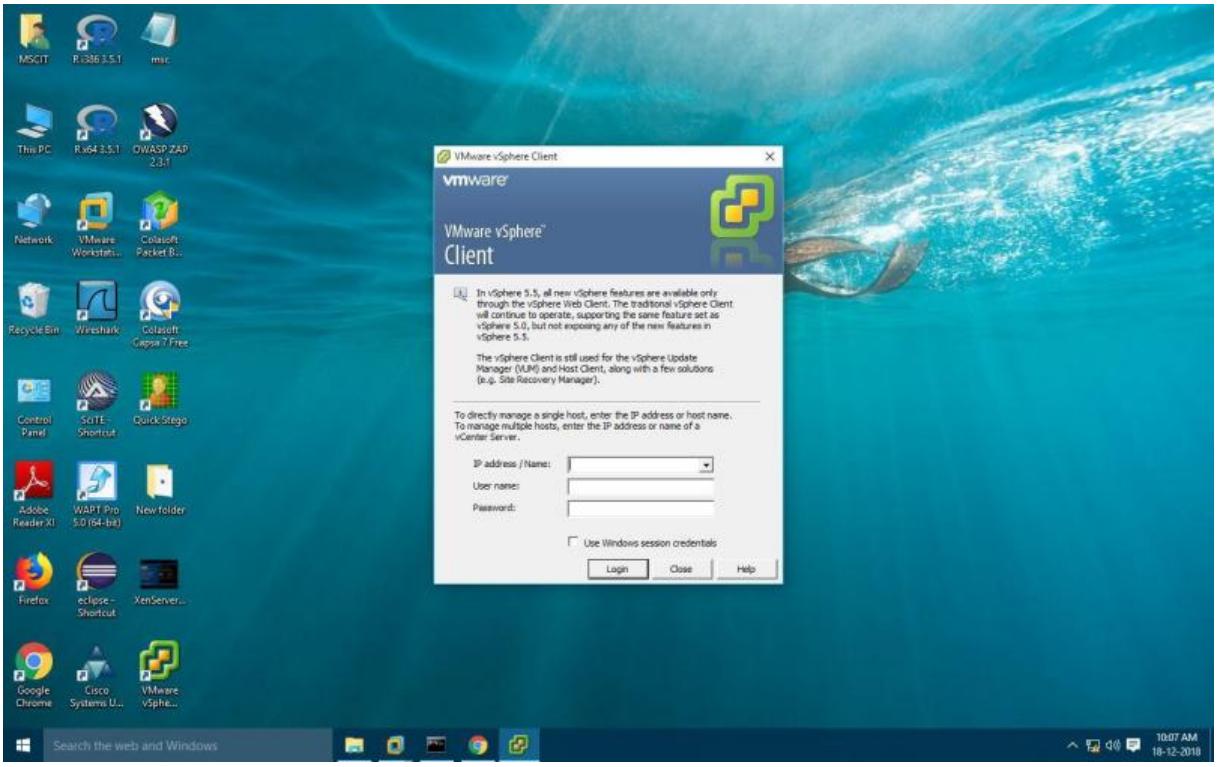
Open Browser & type respective IP Address

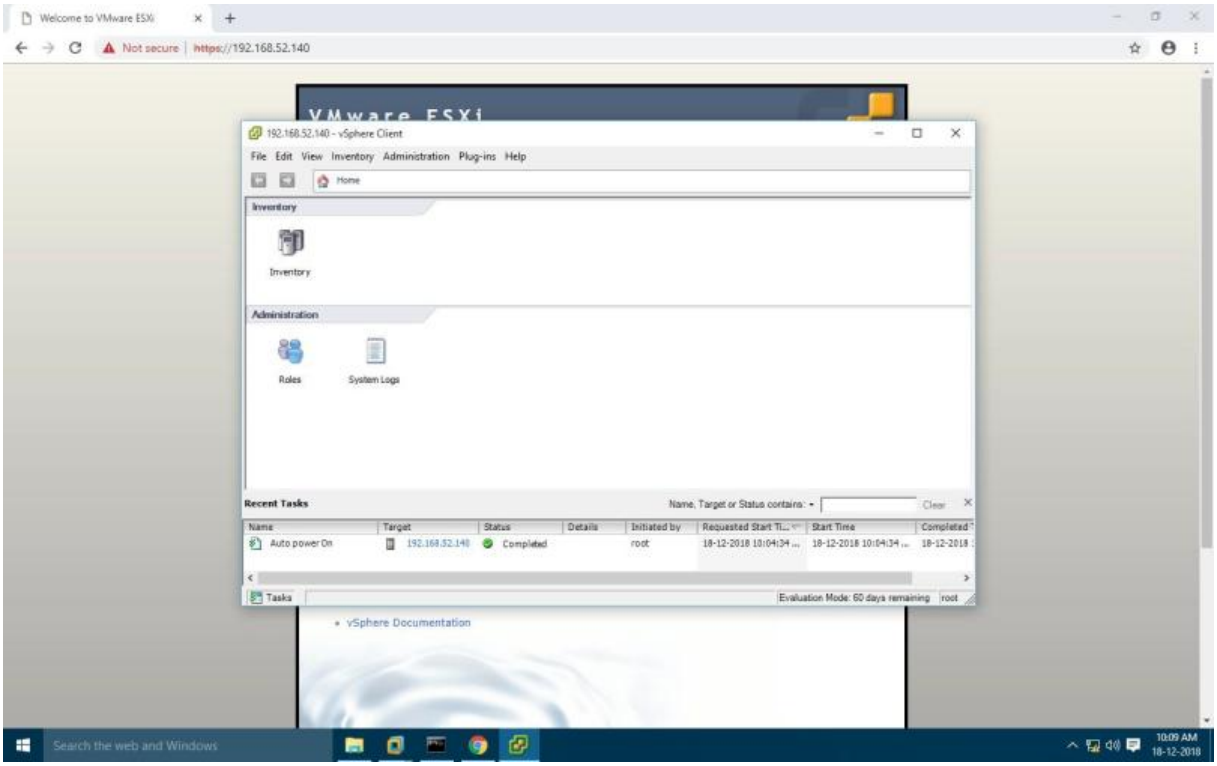


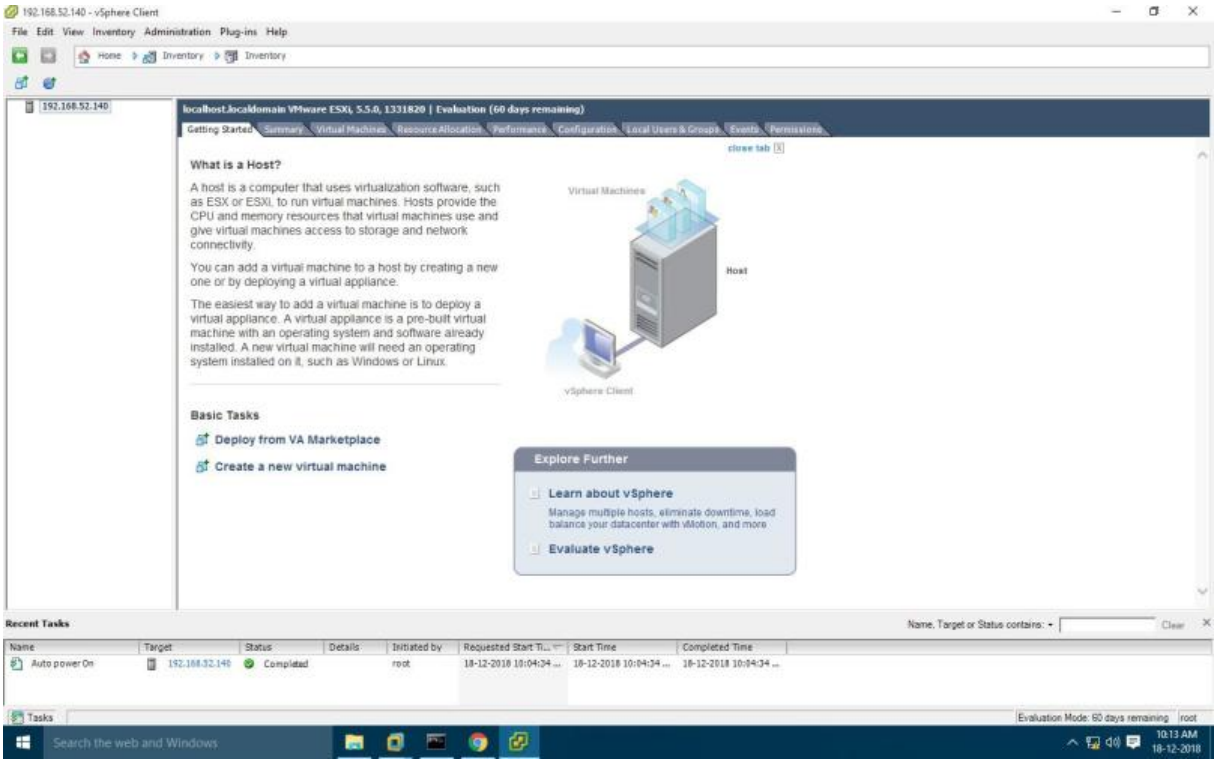
(since we already have vsphareclient so we are not going to download it,first install and open vsphareclient)

VMware vSphere Client

- Enter IP address (Which was assigned dynamically)
- Enter Username and Password

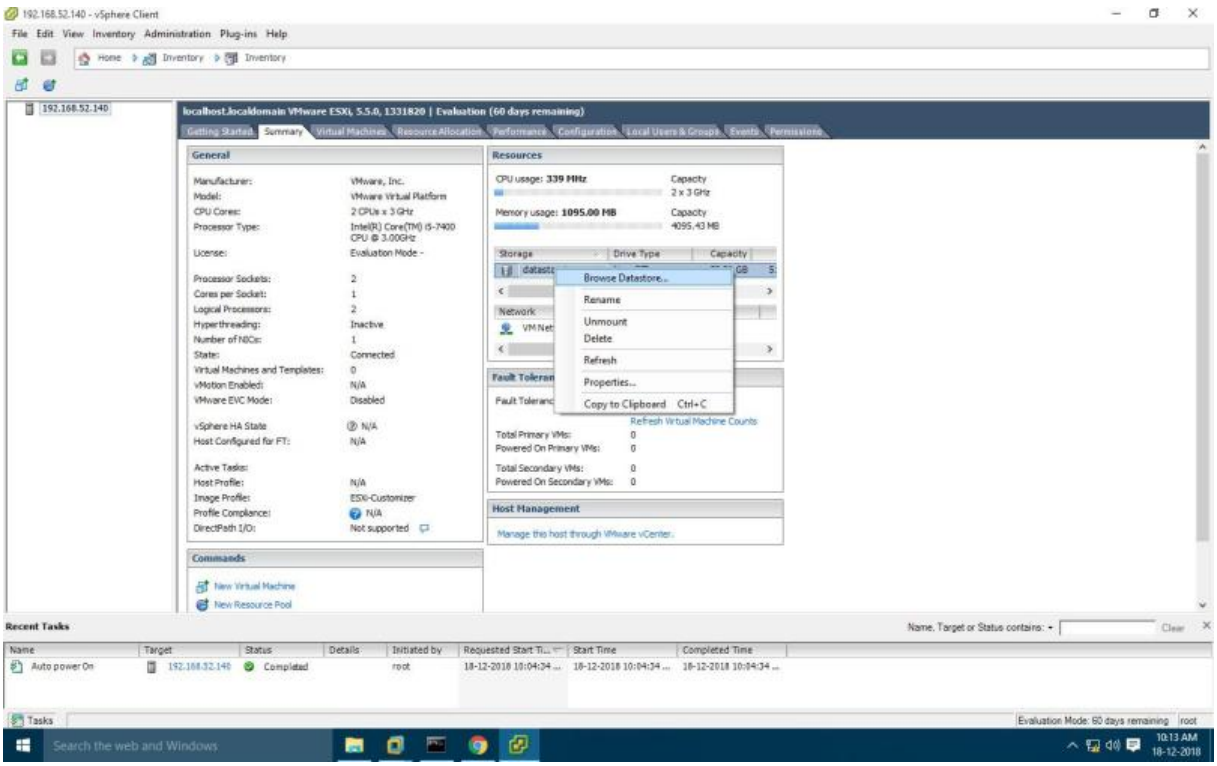

VMware vSphere Client
vmware
VMware vSphere
Client
In vSphere 5.5, all new vSphere features are available only through the vSphere Web Client. The traditional vSphere Client will continue to operate, supporting the same feature set as vSphere 5.0, but not exposing any of the new features in vSphere 5.5.
The vSphere Client is still used for the vSphere Update Manager (VUM) and Host Client, along with a few solutions (e.g. Site Recovery Manager).
To directly manage a single host, enter the IP address or host name. To manage multiple hosts, enter the IP address or name of a vCenter Server.
IP address / Name:
User name:
Password:
Use Windows session credentials
Login
Close
Help
MSCIT
R.x86 3.5.1
msc
This PC
R.x64 3.5.1
OWASP ZAP 2.3.1
Network
VMware Workstati...
Colasoft Packet B...
Recycle Bin
Wireshark
Colasoft Capsa 7 Free
Control Panel
SciTE - Shortcut
Quick Stego
Adobe Reader XI
WAPT Pro 5.0 (64-bit)
New folder
Firefox
eclipse - Shortcut
XenServer...
Google Chrome
Cisco Systems U...
VMware vSphe...
Search the web and Windows
10:07 AM
18-12-2018


Welcome to VMware ESXi
Not secure | https://192.168.52.140
VMware ESXi
192.168.52.140 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home
Inventory
Inventory
Administration
Roles
System Logs
Recent Tasks
Name, Target or Status contains:
Clear
Name
Target
Status
Details
Initiated by
Requested Start Ti...
Start Time
Completed
Auto power On
192.168.52.140
Completed
root
18-12-2018 10:04:34 ...
18-12-2018 10:04:34 ...
18-12-2018
Tasks
Evaluation Mode: 60 days remaining
root
vSphere Documentation
Search the web and Windows
10:09 AM
18-12-2018

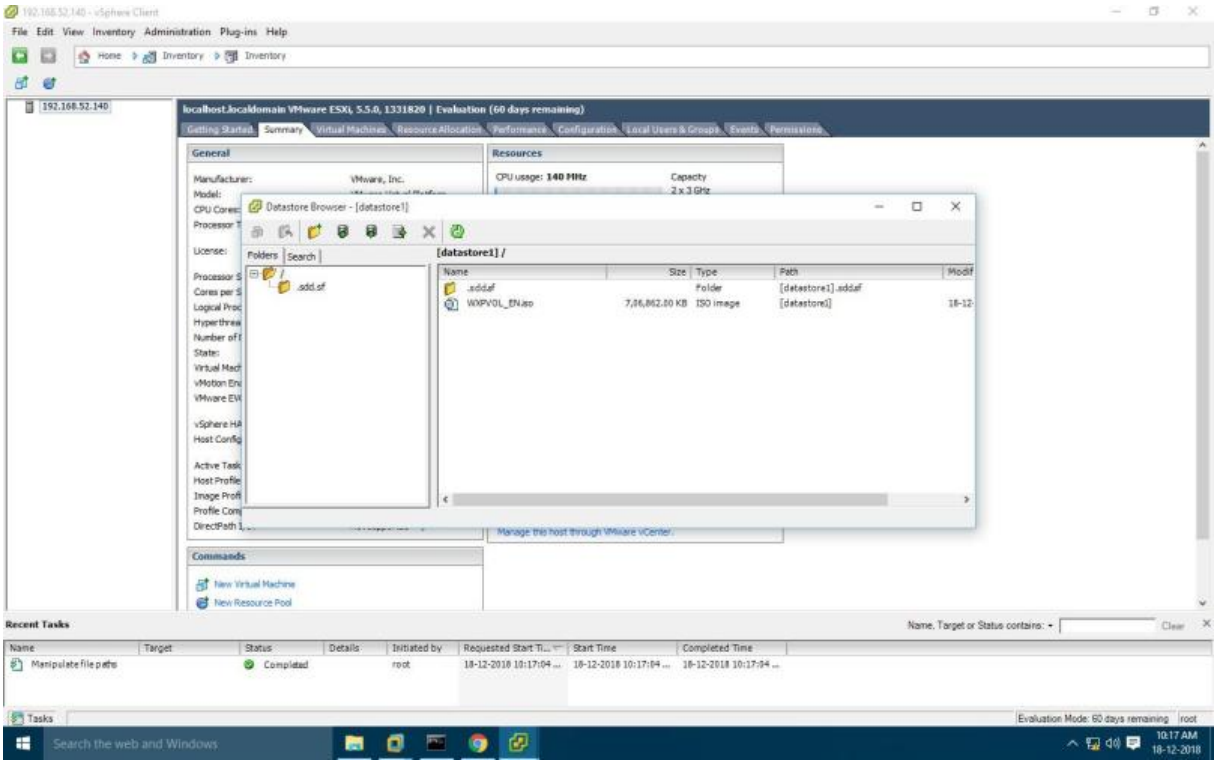


Select Summary tab.

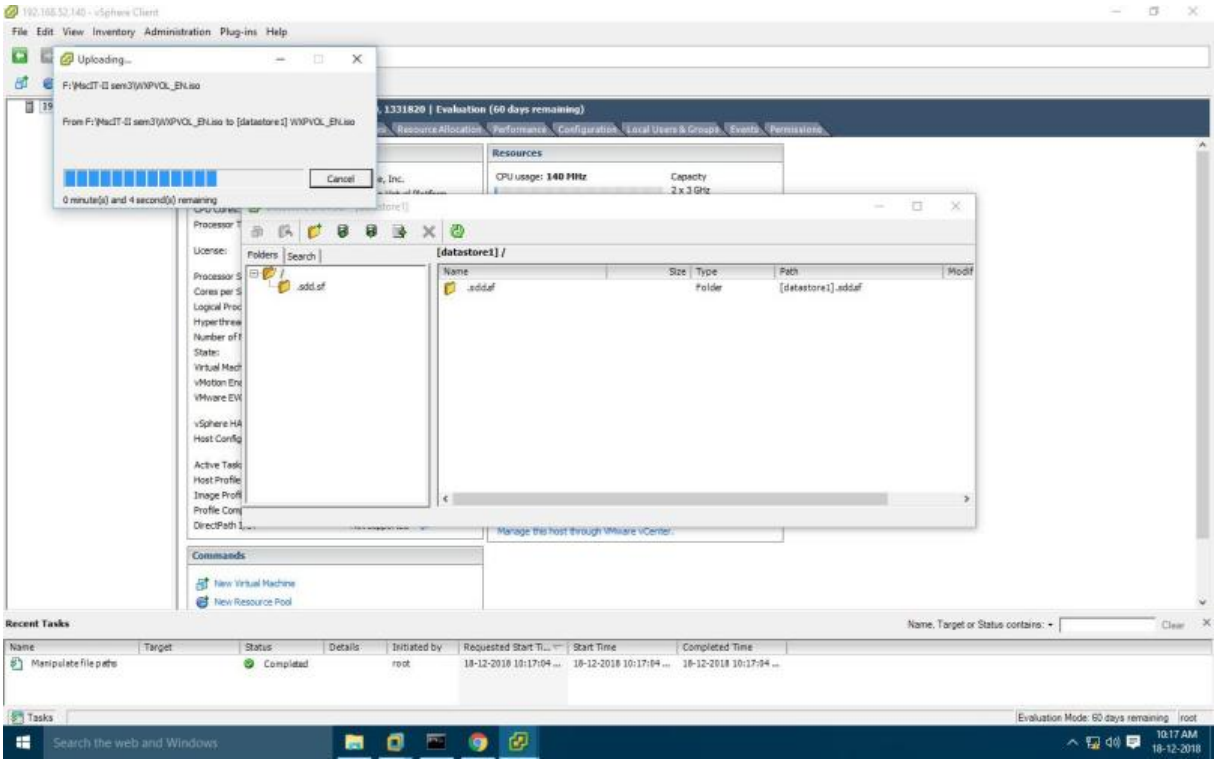
- In Storage section, Select on datastore1 and Right-click on Browse Datastore to add iso image of Windows XP in Datastore.



Click on Upload Icon and Select Upload File.

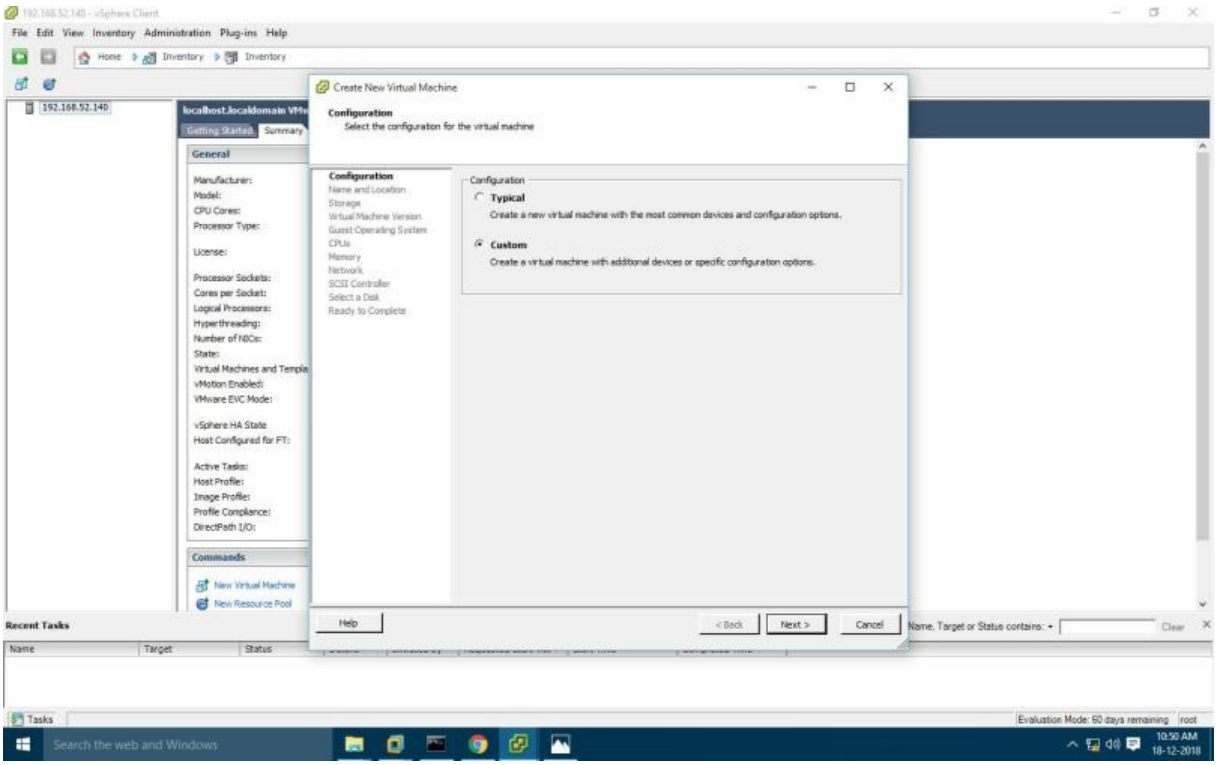


Click on Yes

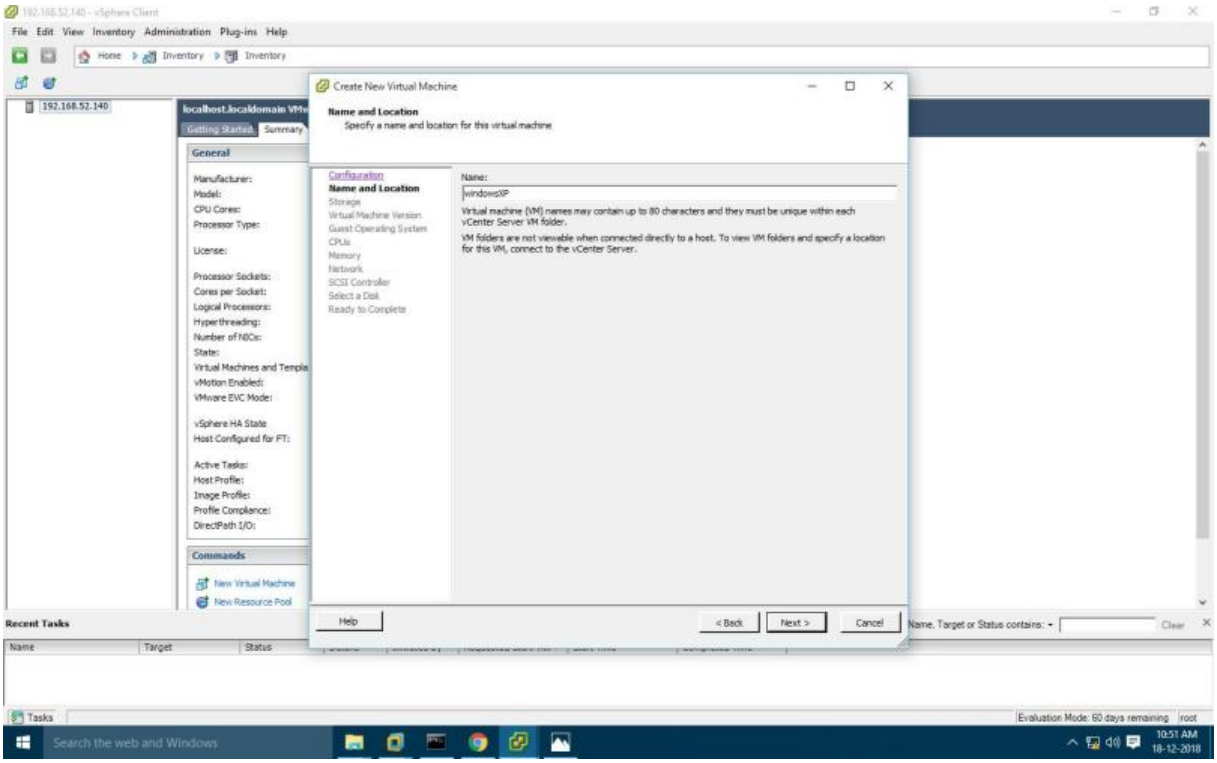


Click on **File >> New >> Virtual Machine**.

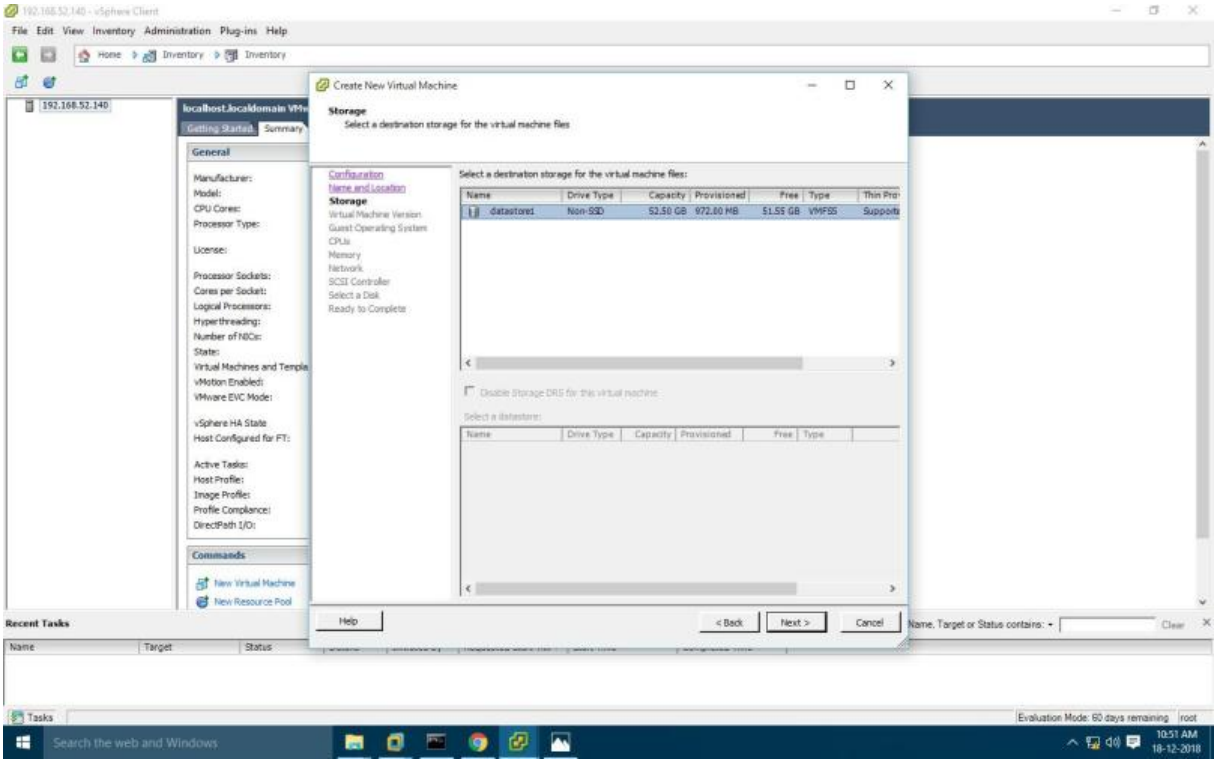
Configuration : Select Custom configuration.



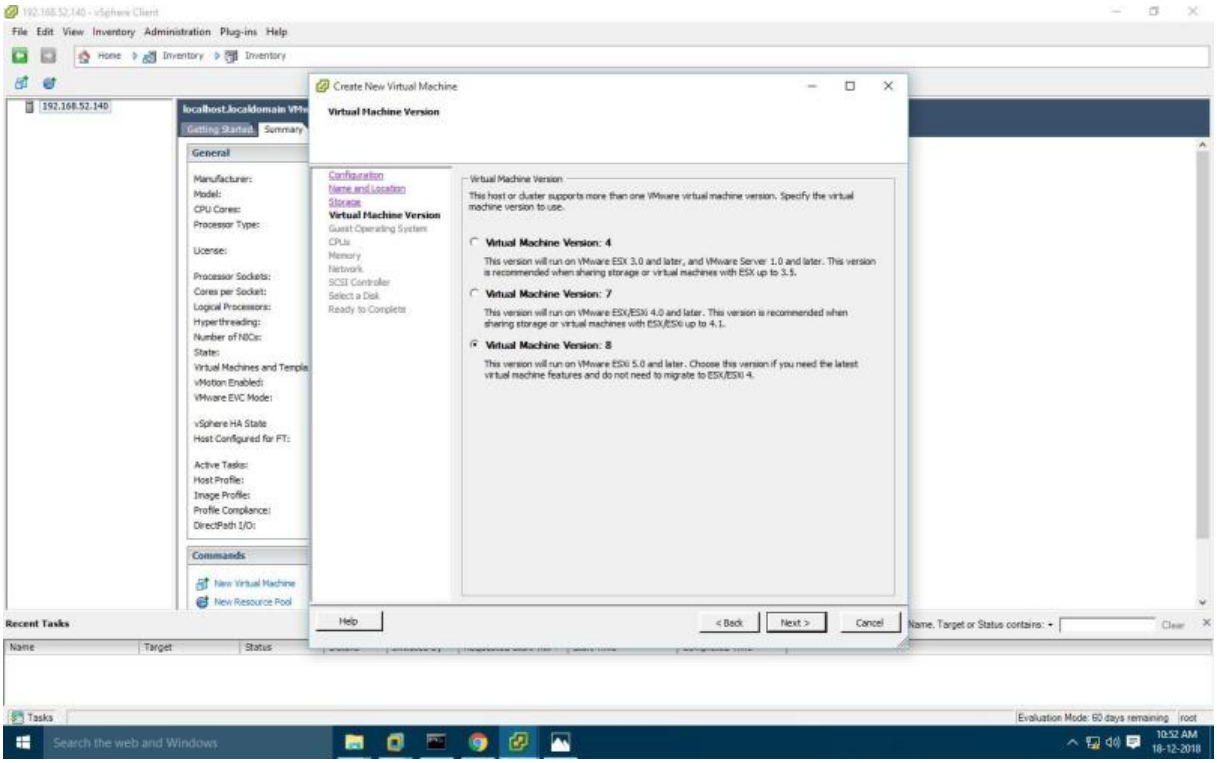
Name and Location: Give name to a Virtual Machine(Windows XP)



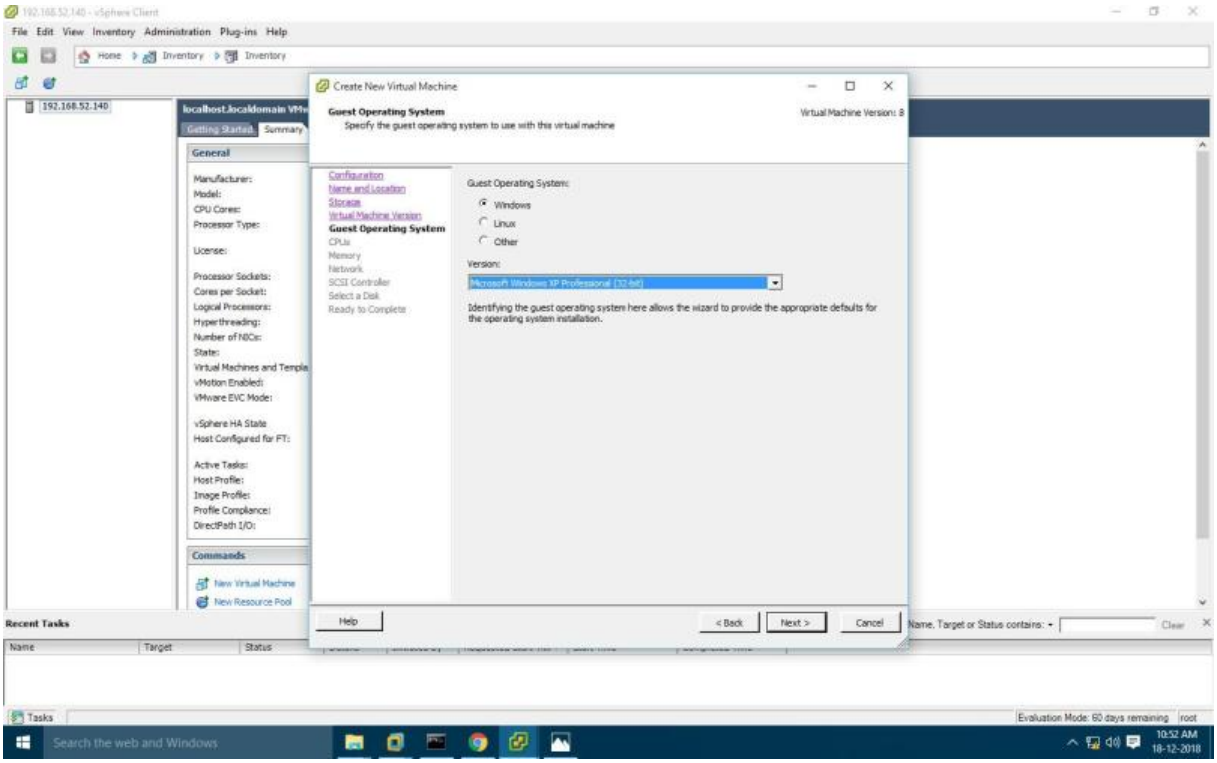
Storage: Select datastore1 and click Next



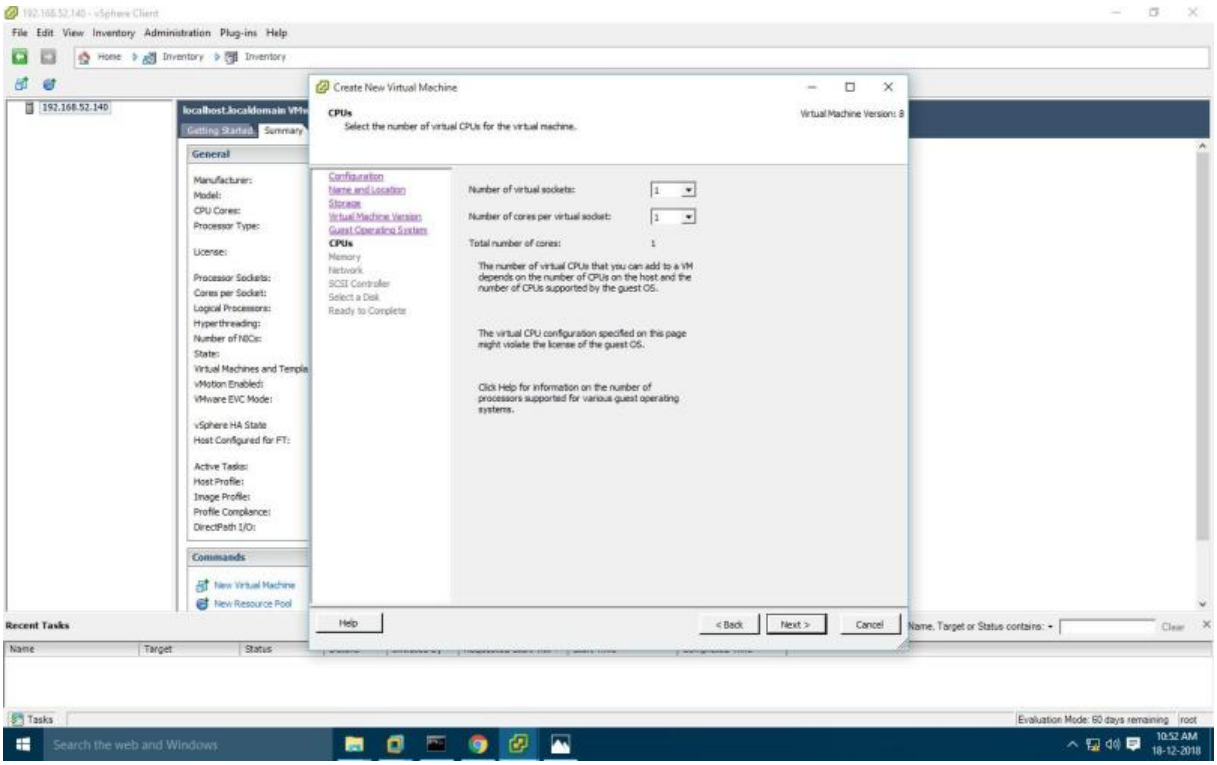
Virtual Machine version : Select Virtual Machine version 8



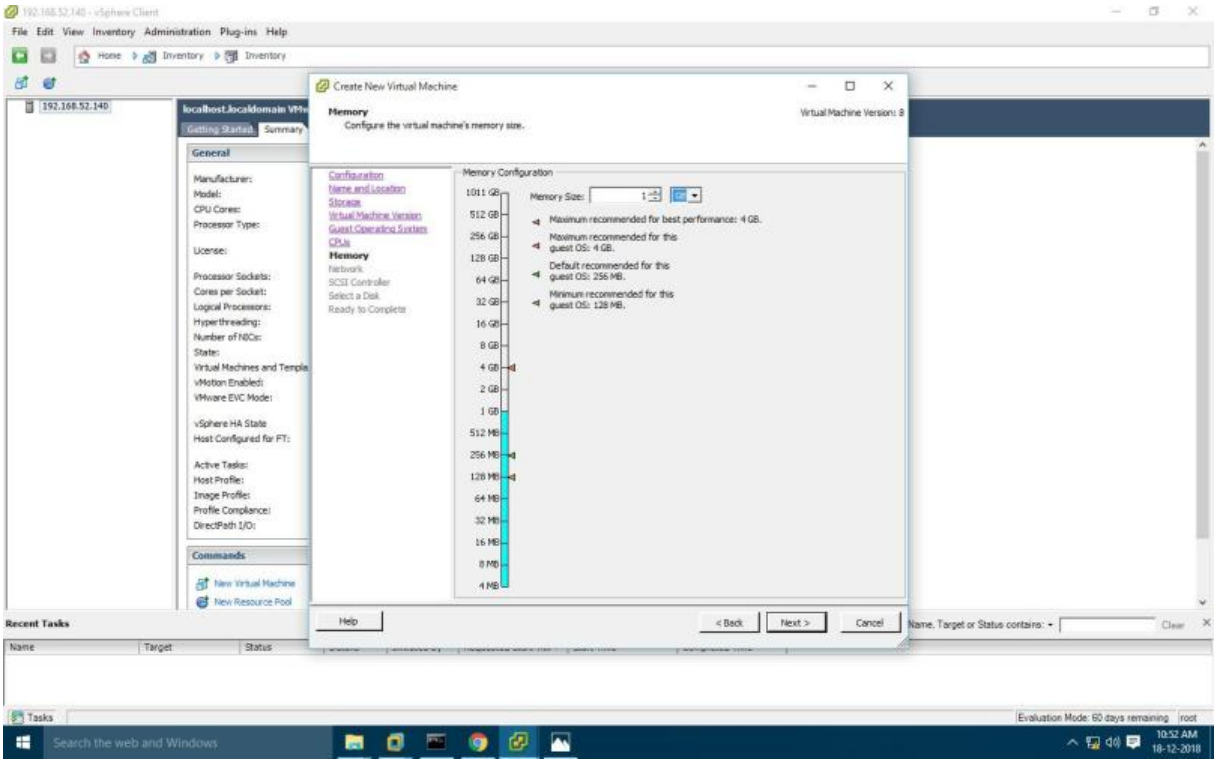
Guest Operating System: Windows
Version: Microsoft windows XP Professional (32-bit)



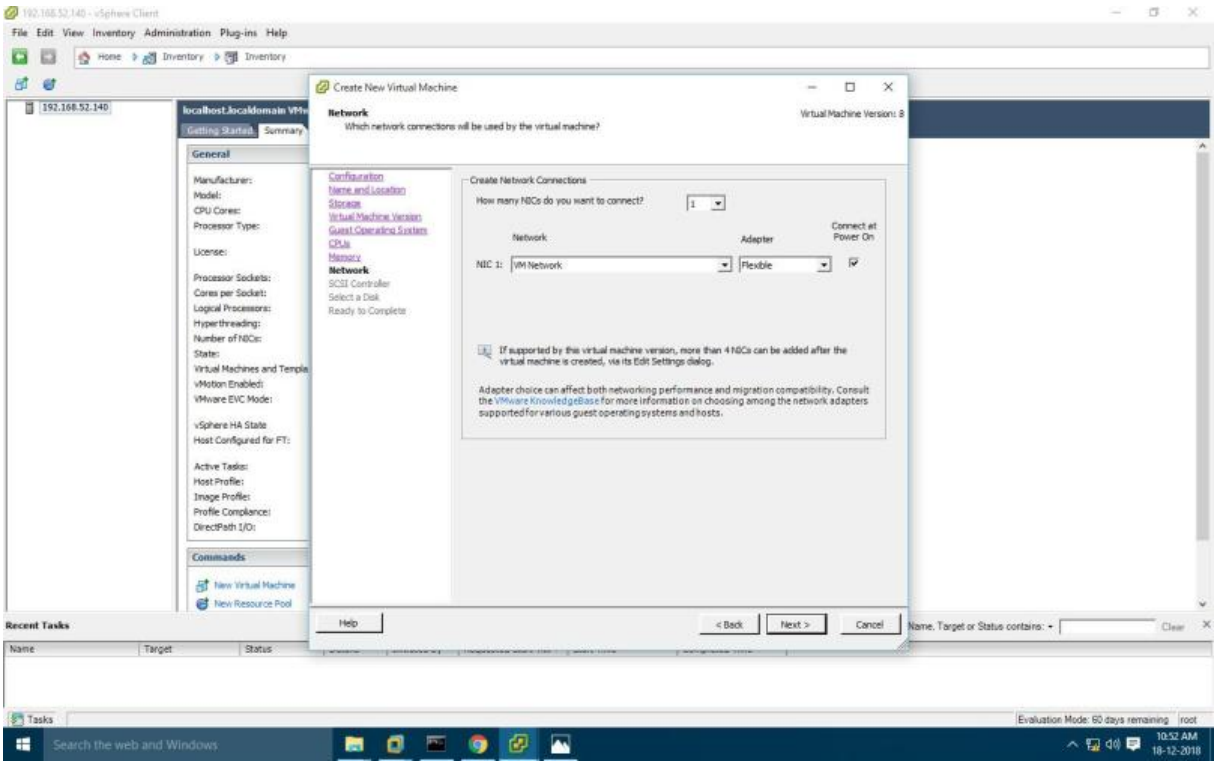
CPUs :
Number of virtual sockets : 1
Number of cores per virtual socket: 1



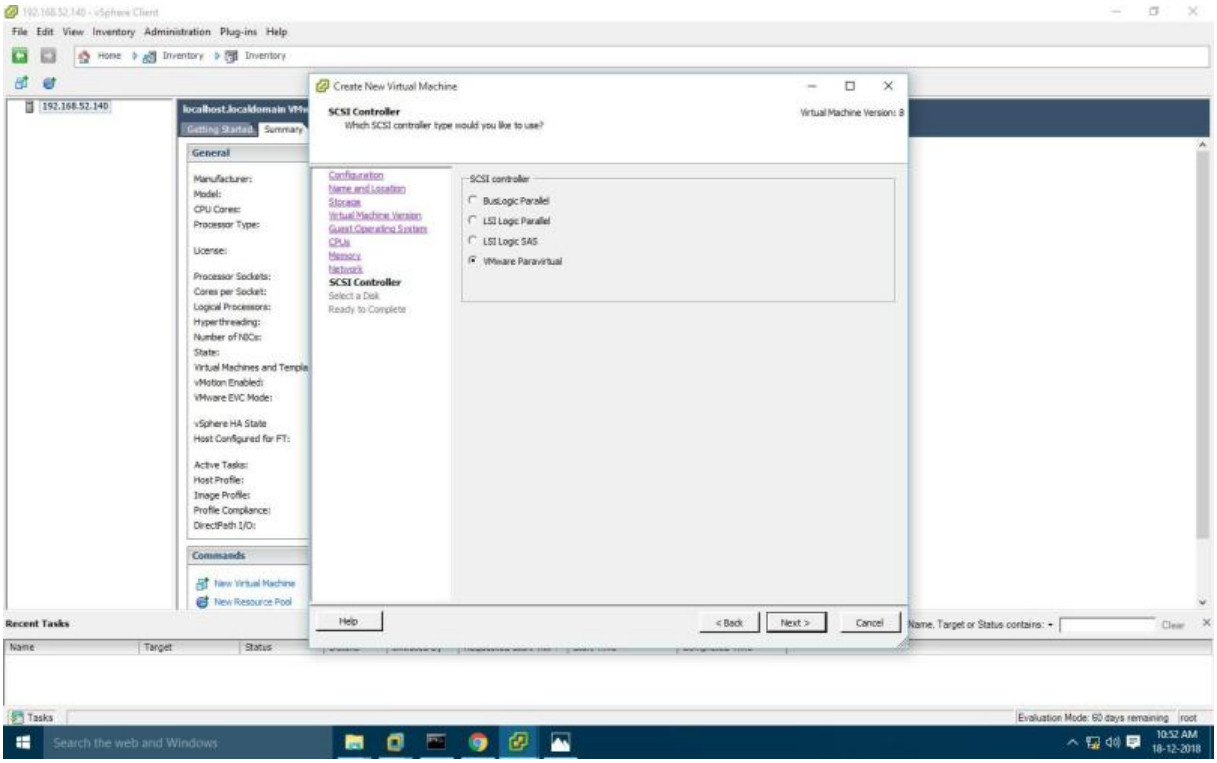
Memory: Memory Size : 1 GB



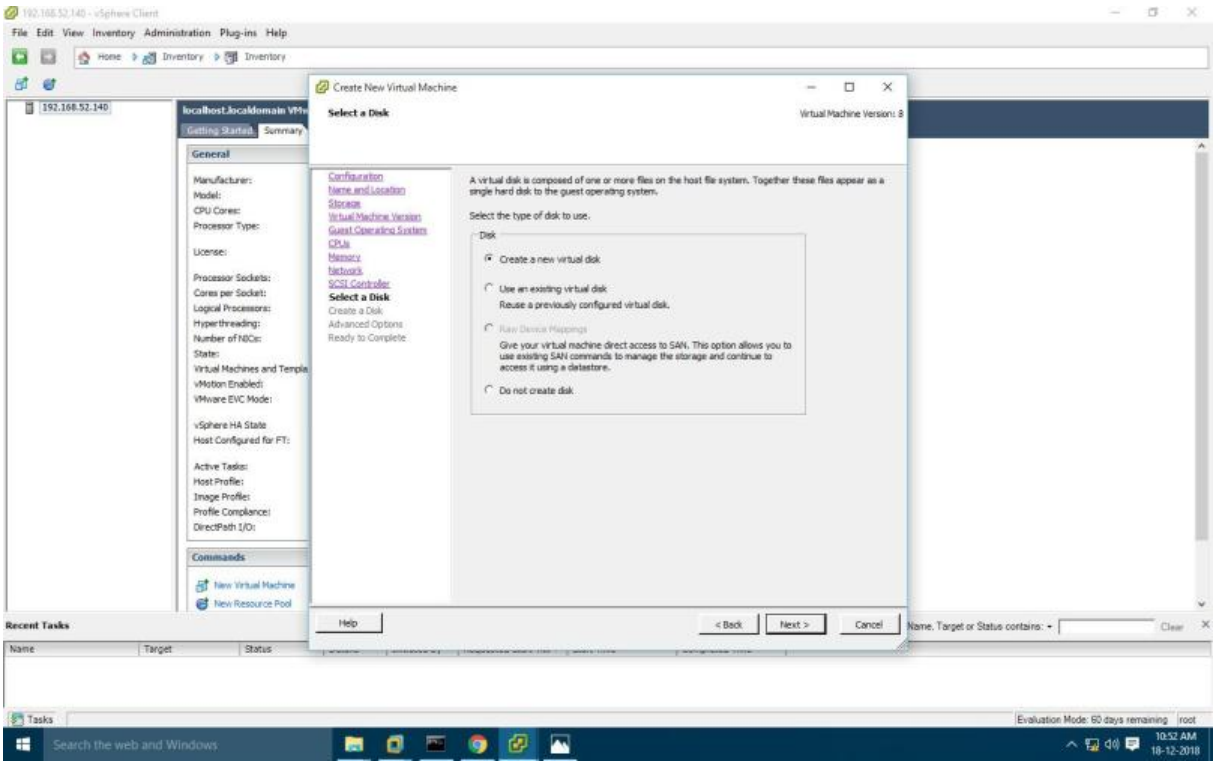
Network: Number of NICs : 1

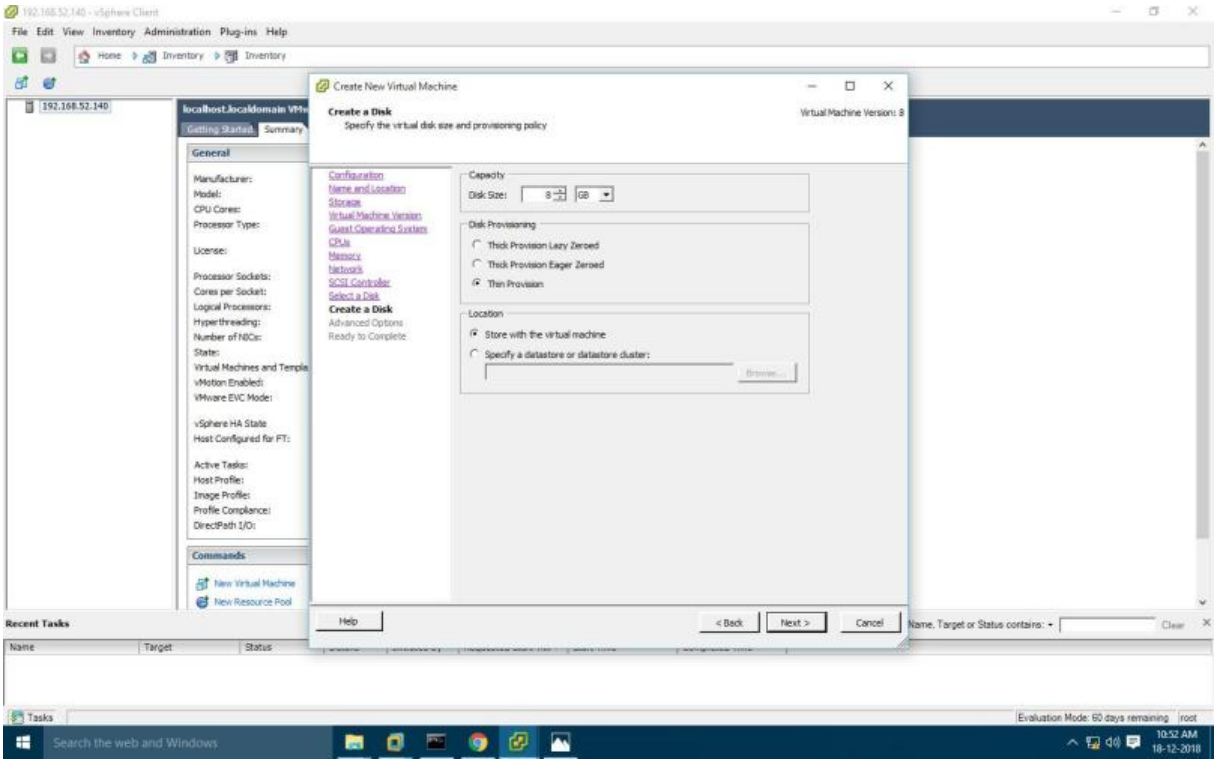


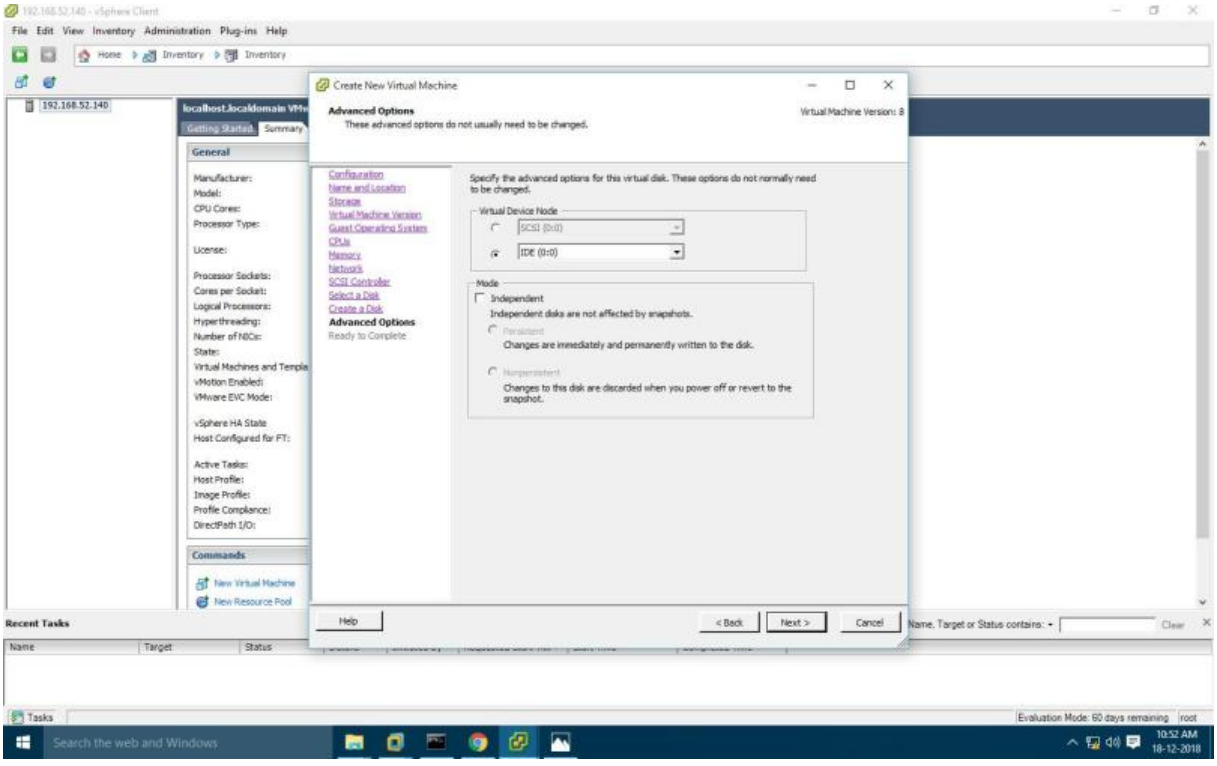
SCSI Controller : VMware Paravirtual



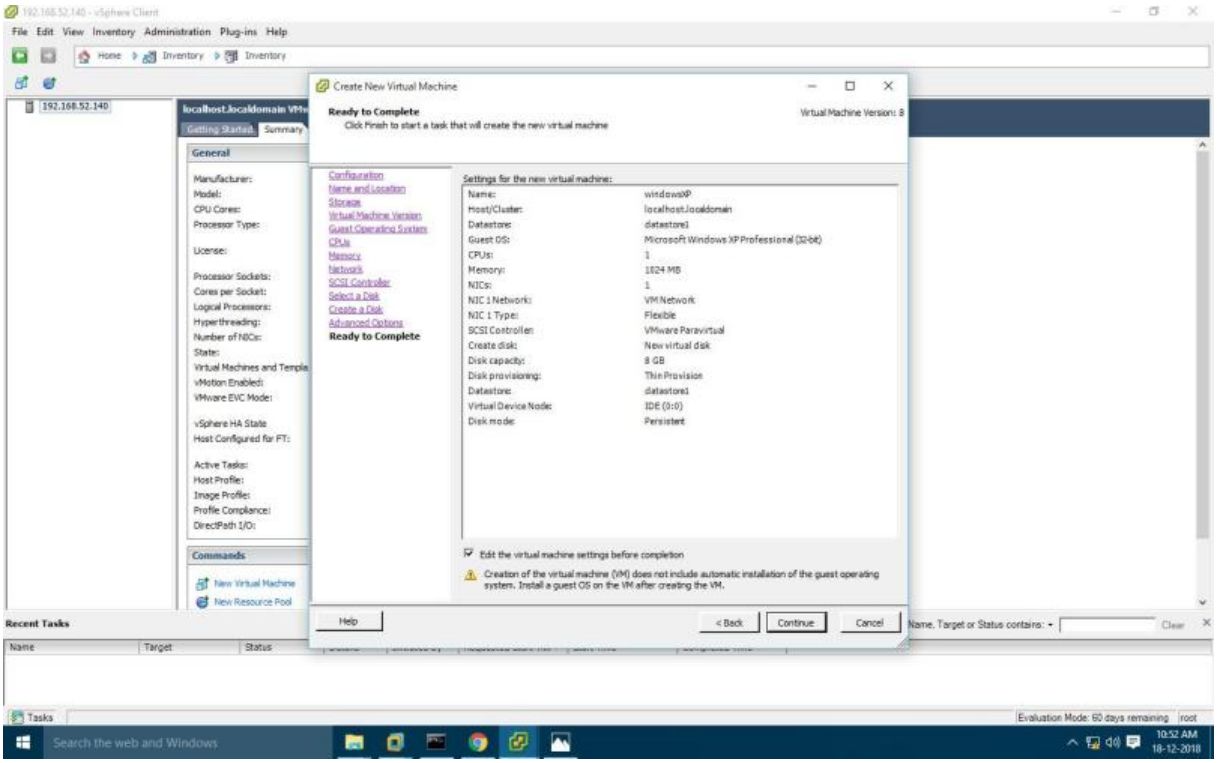
Select a Disk: create new virtual disk.



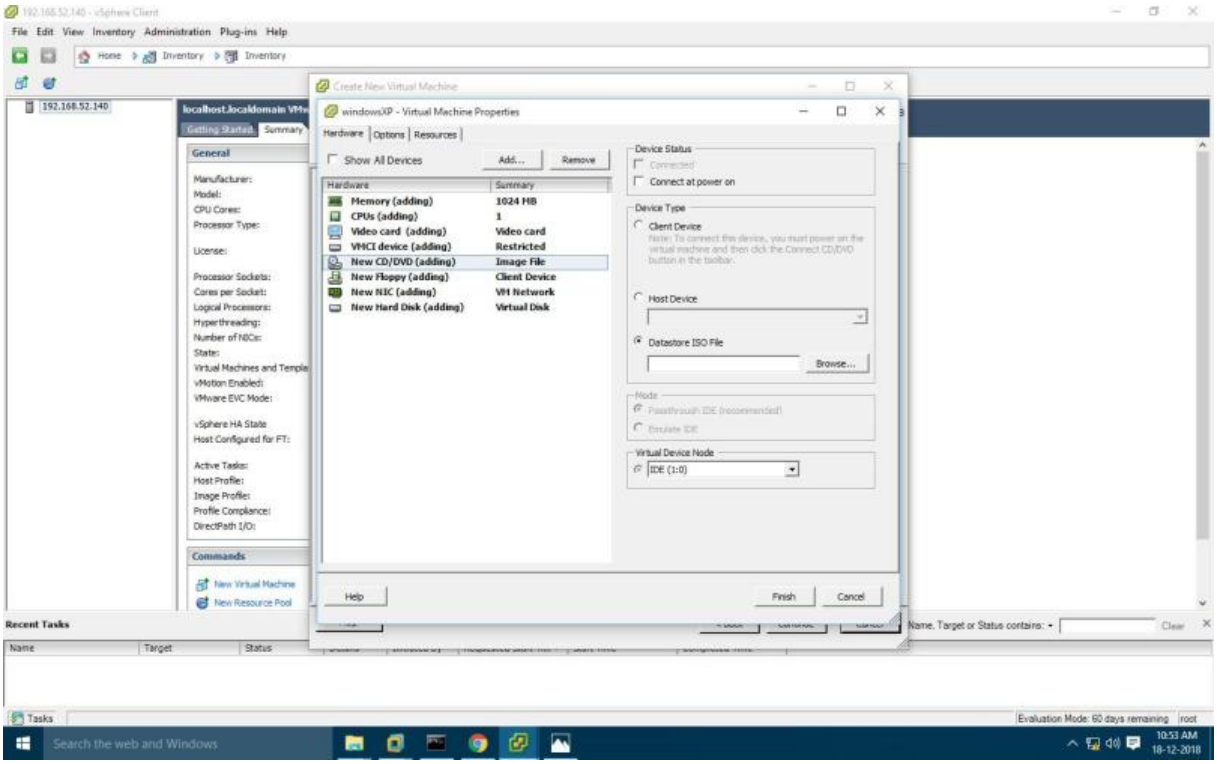

Create New Virtual Machine
Create a Disk
Specify the virtual disk size and provisioning policy
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Create a Disk
Advanced Options
Ready to Complete
Capacity
Disk Size:
Disk Provisioning
Thick Provision Lazy Zeroed
Thick Provision Eager Zeroed
Thin Provision
Location
Store with the virtual machine
Specify a datastore or datastore cluster:
Help
< Back
Next >
Cancel

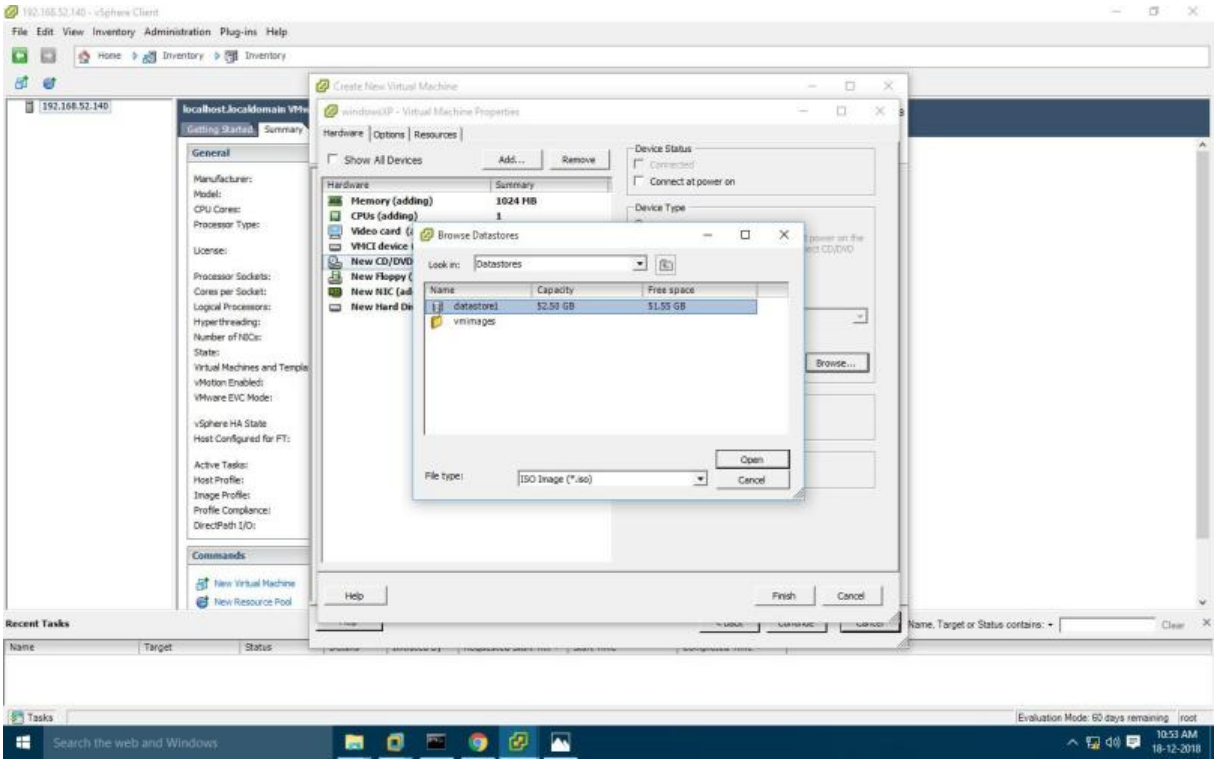

Create New Virtual Machine
Advanced Options
These advanced options do not usually need to be changed.
Virtual Machine Version: 8
Specify the advanced options for this virtual disk. These options do not normally need to be changed.
Virtual Device Node
SCSI (0:0)
IDE (0:0)
Mode
Independent
Independent disks are not affected by snapshots.
Persistent
Changes are immediately and permanently written to the disk.
Nonpersistent
Changes to this disk are discarded when you power off or revert to the snapshot.
Help
< Back
Next >
Cancel

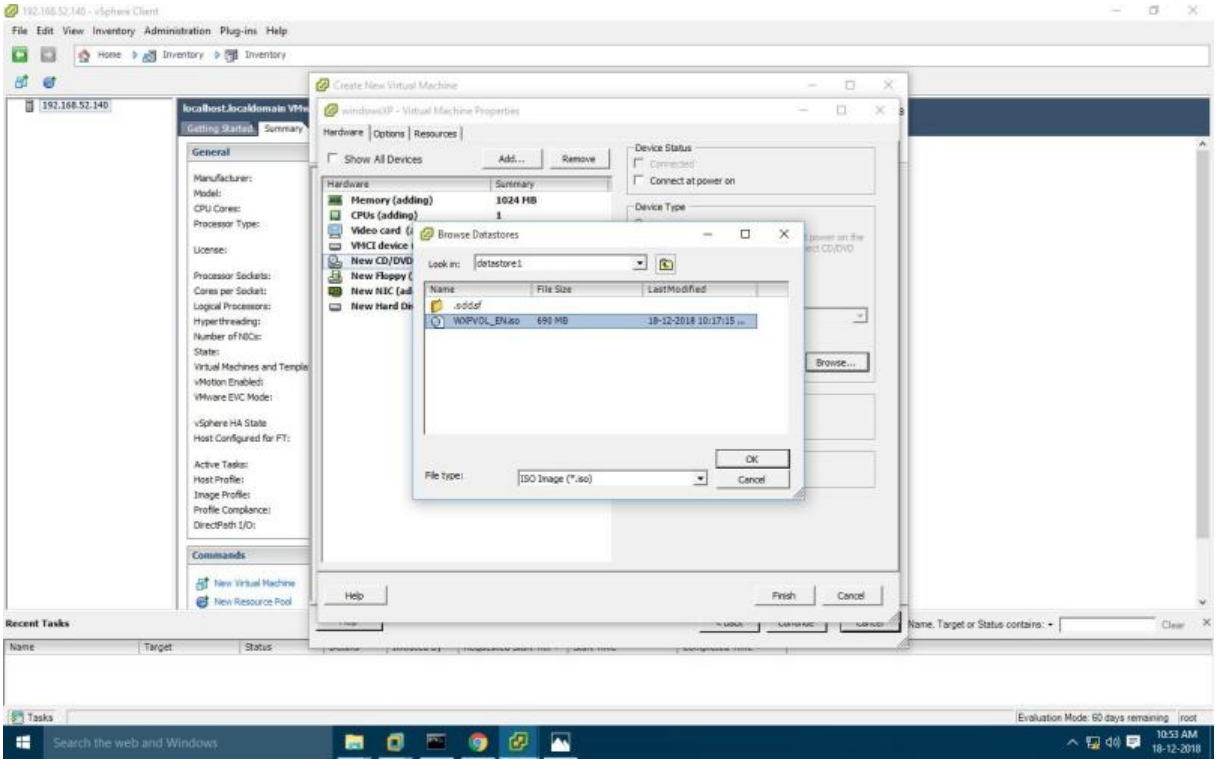
Click edit

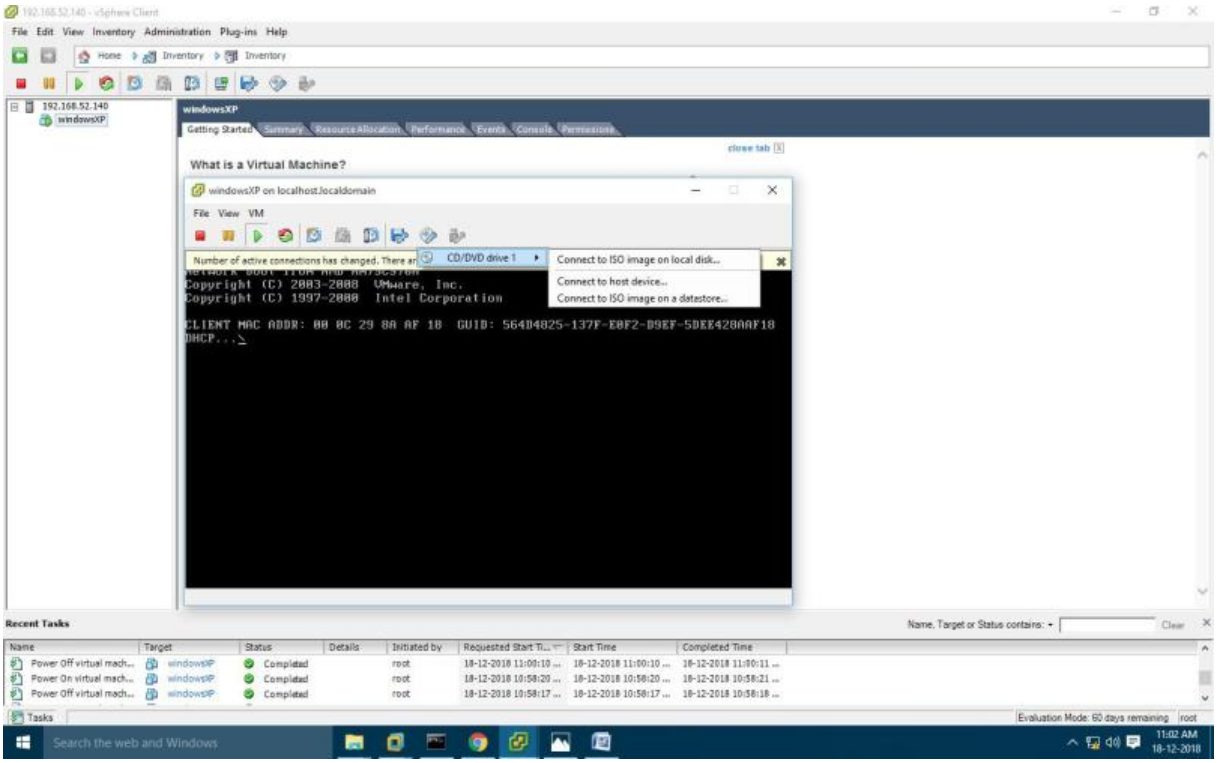


Click on datastore

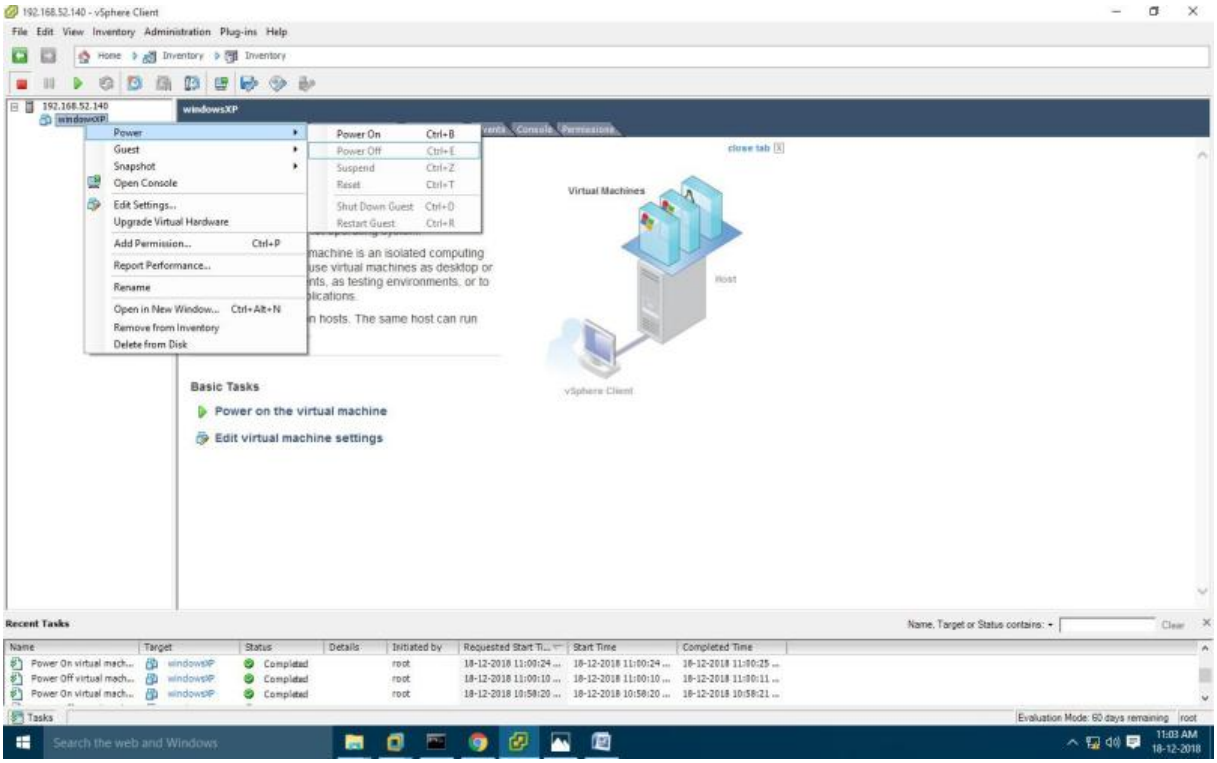


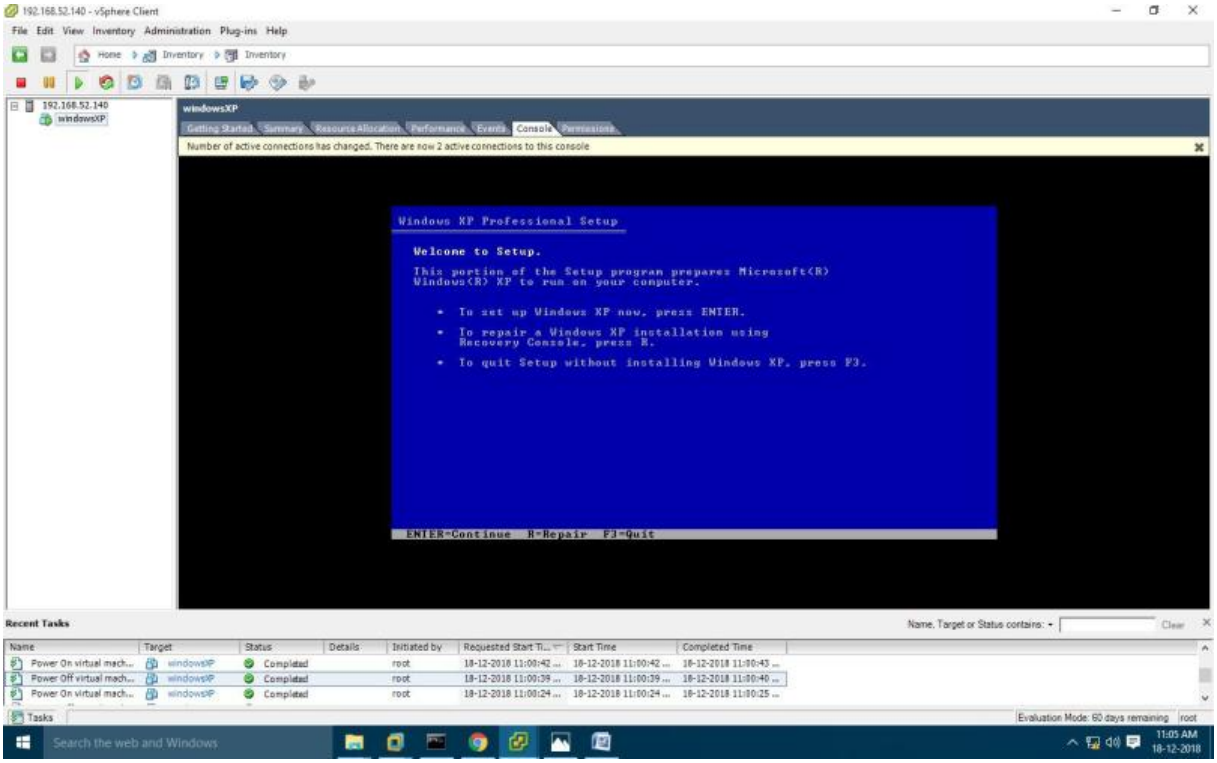

File Edit View Inventory Administration Plug-ins Help
Create New Virtual Machine
windowsXP - Virtual Machine Properties
Hardware Options Resources
Show All Devices
Add... Remove
Memory (adding) 1024 MB
CPUs (adding) 1
New CD/DVD
New Floppy
New NIC (ad
New Hard Di
Device Status
Connected
Connect at power on
Device Type
Browse Datastores
Look in: Datastores
Name Capacity Free space
datastore1 52.50 GB 51.55 GB
vmimages
Browse...
Open
Cancel
File type: ISO Image (*.iso)
Help
Finish
Cancel
Recent Tasks
Name Target Status
Tasks
Evaluation Mode: 60 days remaining root
Search the web and Windows
10:53 AM
18-12-2018


File Edit View Inventory Administration Plug-ins Help
Create New Virtual Machine
windowsXP - Virtual Machine Properties
Hardware Options Resources
Show All Devices
Add... Remove
Memory (adding) 1024 MB
CPUs (adding) 1
New CD/DVD
New Floppy
New NIC (ad
New Hard Di
Device Status
Connected
Connect at power on
Device Type
Browse Datastores
Look in: datastore1
Name File Size LastModified
.sddsf
WXPVOL_EN.iso 690 MB 18-12-2018 10:17:15 ...
Browse...
OK
Cancel
File type: ISO Image (*.iso)
Help
Finish
Cancel
Recent Tasks
Name Target Status
Tasks
Evaluation Mode: 60 days remaining root
Search the web and Windows
10:53 AM
18-12-2018



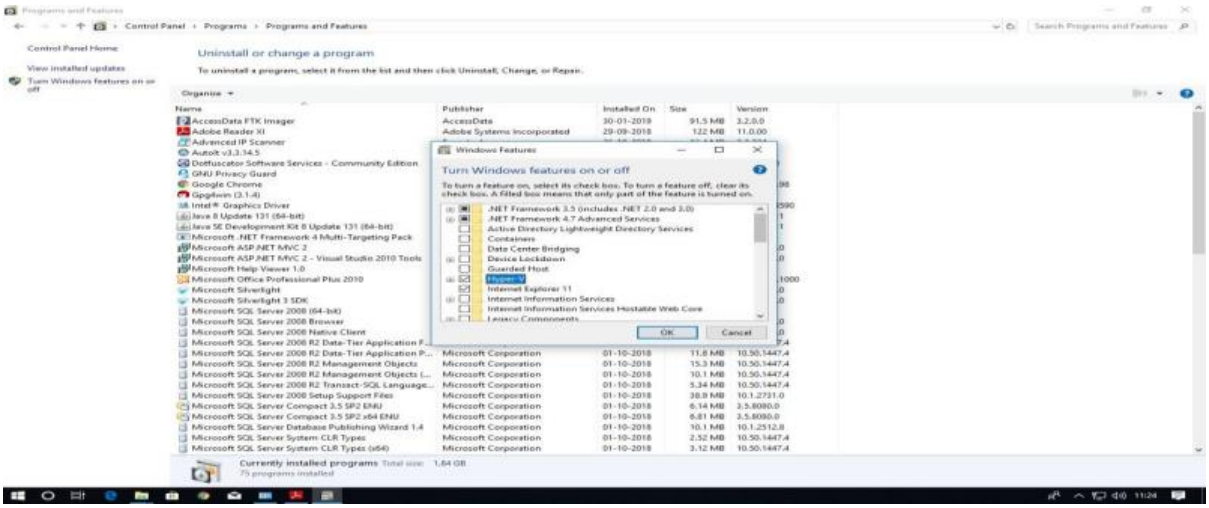
Right Click on Windows XP >> Power >> Power On


192.168.52.140 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
192.168.52.140
windowsXP
Power
Guest
Snapshot
Open Console
Edit Settings...
Upgrade Virtual Hardware
Add Permission... Ctrl+P
Report Performance...
Rename
Open in New Window... Ctrl+Alt+N
Remove from Inventory
Delete from Disk
Power On Ctrl+B
Power Off Ctrl+E
Suspend Ctrl+Z
Reset Ctrl+T
Shut Down Guest Ctrl+O
Restart Guest Ctrl+R
Virtual Machines
Host
vSphere Client
Basic Tasks
Power on the virtual machine
Edit virtual machine settings
Recent Tasks
Name, Target or Status contains:
Clear
Name Target Status Details Initiated by Requested Start Ti... Start Time Completed Time
Power On virtual mach... windowsXP Completed root 18-12-2018 11:00:24 ... 18-12-2018 11:00:24 ... 18-12-2018 11:00:25 ...
Power Off virtual mach... windowsXP Completed root 18-12-2018 11:00:10 ... 18-12-2018 11:00:10 ... 18-12-2018 11:00:11 ...
Power On virtual mach... windowsXP Completed root 18-12-2018 10:58:20 ... 18-12-2018 10:58:20 ... 18-12-2018 10:58:21 ...
Tasks
Evaluation Mode: 60 days remaining root
Search the web and Windows
11:03 AM
18-12-2018


192.168.52.140 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
192.168.52.140
windowsXP
Getting Started Summary Resource Allocation Performance Events Console Permissions
Number of active connections has changed. There are now 2 active connections to this console
Windows XP Professional Setup
Welcome to Setup.
This portion of the Setup program prepares Microsoft(R)
Windows(R) XP to run on your computer.
• To set up Windows XP now, press ENTER.
• To repair a Windows XP installation using
Recovery Console, press R.
• To quit Setup without installing Windows XP, press F3.
ENTER=Continue R=Repair F3=Quit
Recent Tasks
Name, Target or Status contains:
Clear
Name Target Status Details Initiated by Requested Start Ti... Start Time Completed Time
Power On virtual mach... windowsXP Completed root 18-12-2018 11:00:42 ... 18-12-2018 11:00:42 ... 18-12-2018 11:00:43 ...
Power Off virtual mach... windowsXP Completed root 18-12-2018 11:00:39 ... 18-12-2018 11:00:39 ... 18-12-2018 11:00:40 ...
Power On virtual mach... windowsXP Completed root 18-12-2018 11:00:24 ... 18-12-2018 11:00:24 ... 18-12-2018 11:00:25 ...
Tasks
Evaluation Mode: 60 days remaining root
Search the web and Windows
11:05 AM
18-12-2018

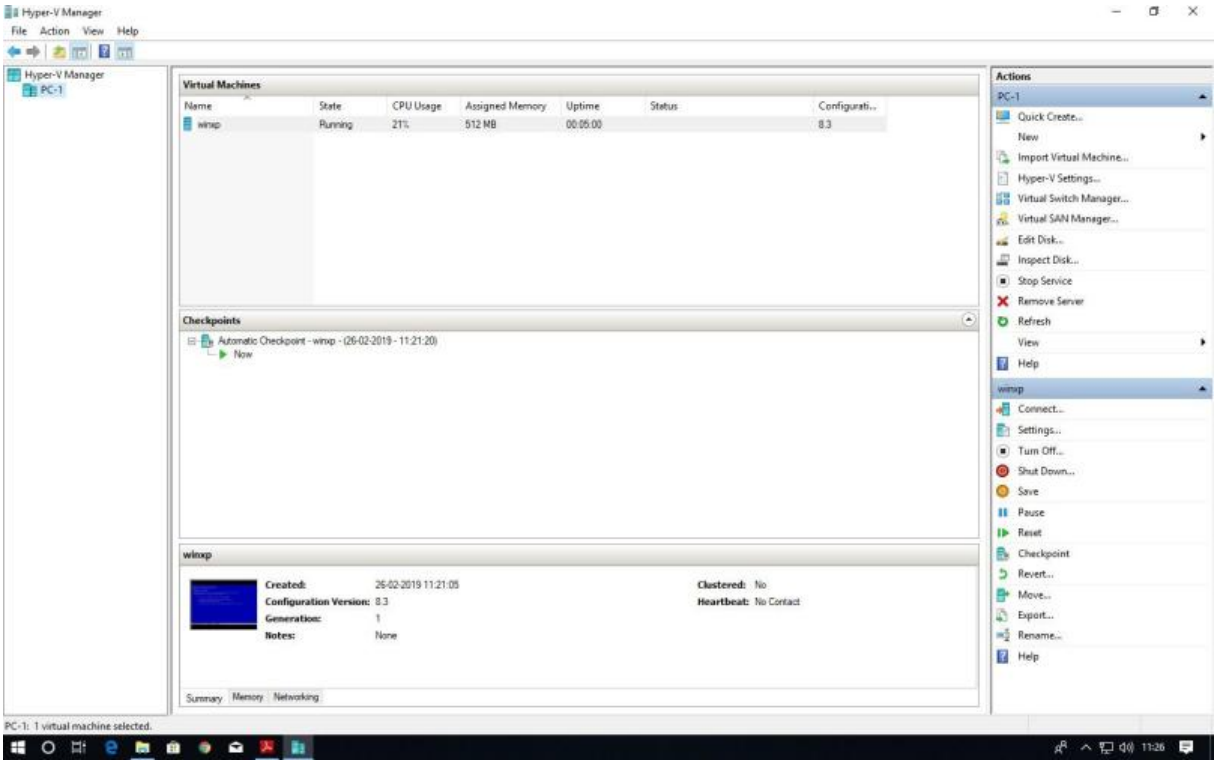
PRACTICAL: 6
NATIVE VIRTUALIZATION USING Hyper-V

First we have to uninstall vmware software if already installed on computer because the VMware Workstation installer does not support running on a Hyper-V virtual machine.
After uninstalling VMware, we can proceed to next step - go to control panel and click on uninstall a program

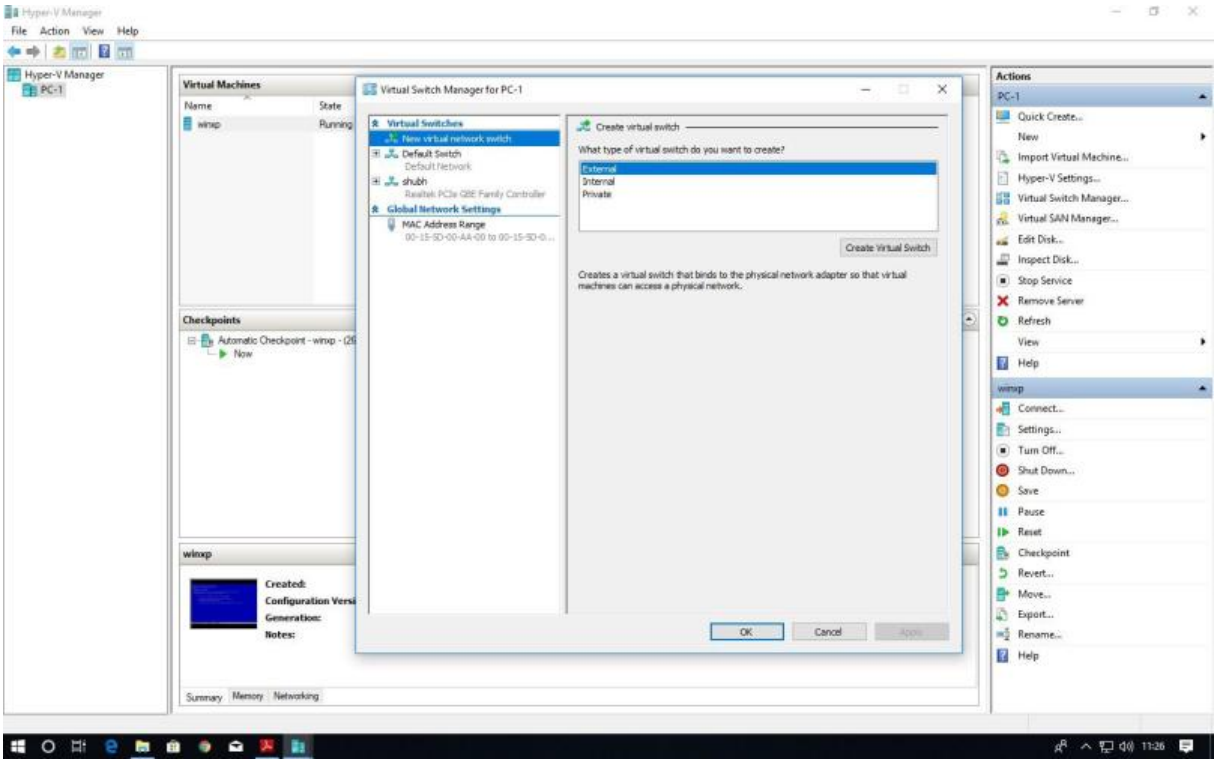


After Restart **Search for hyper-v manager in search box and click on that**

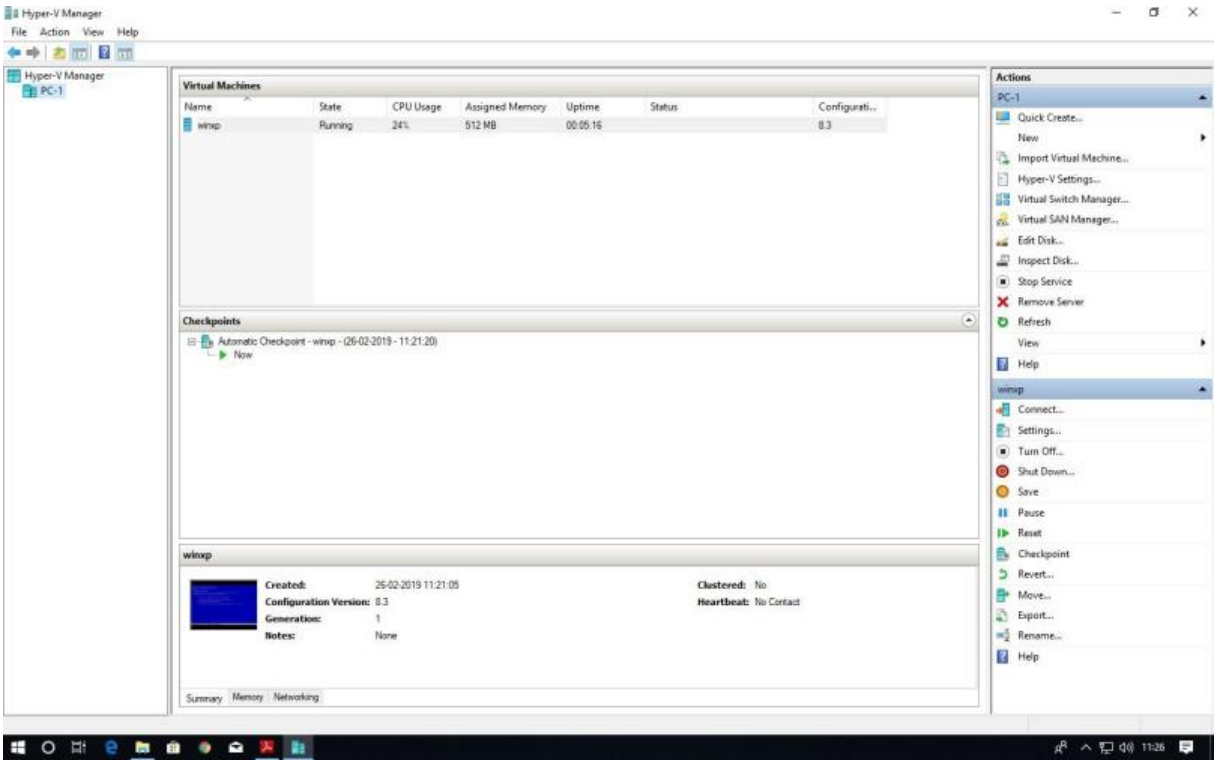
for creating virtual machine first we have to create virtual switch
click on virtual switch manager option

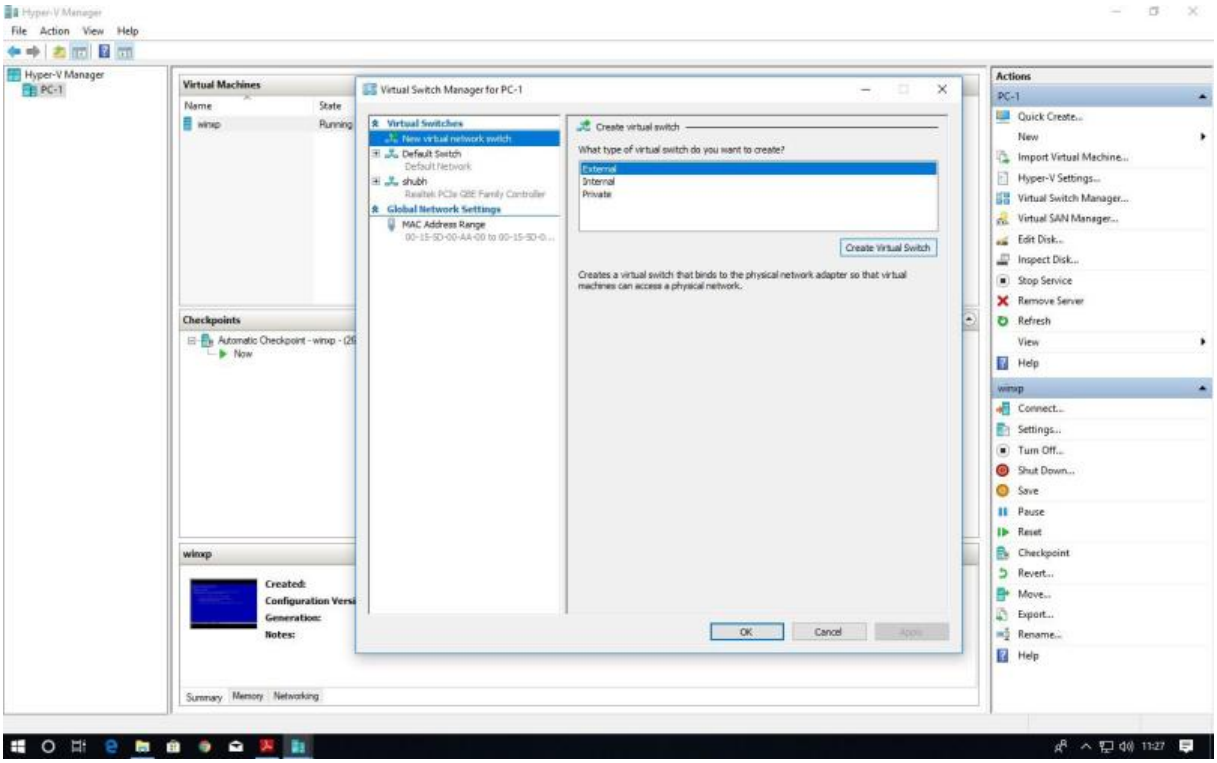


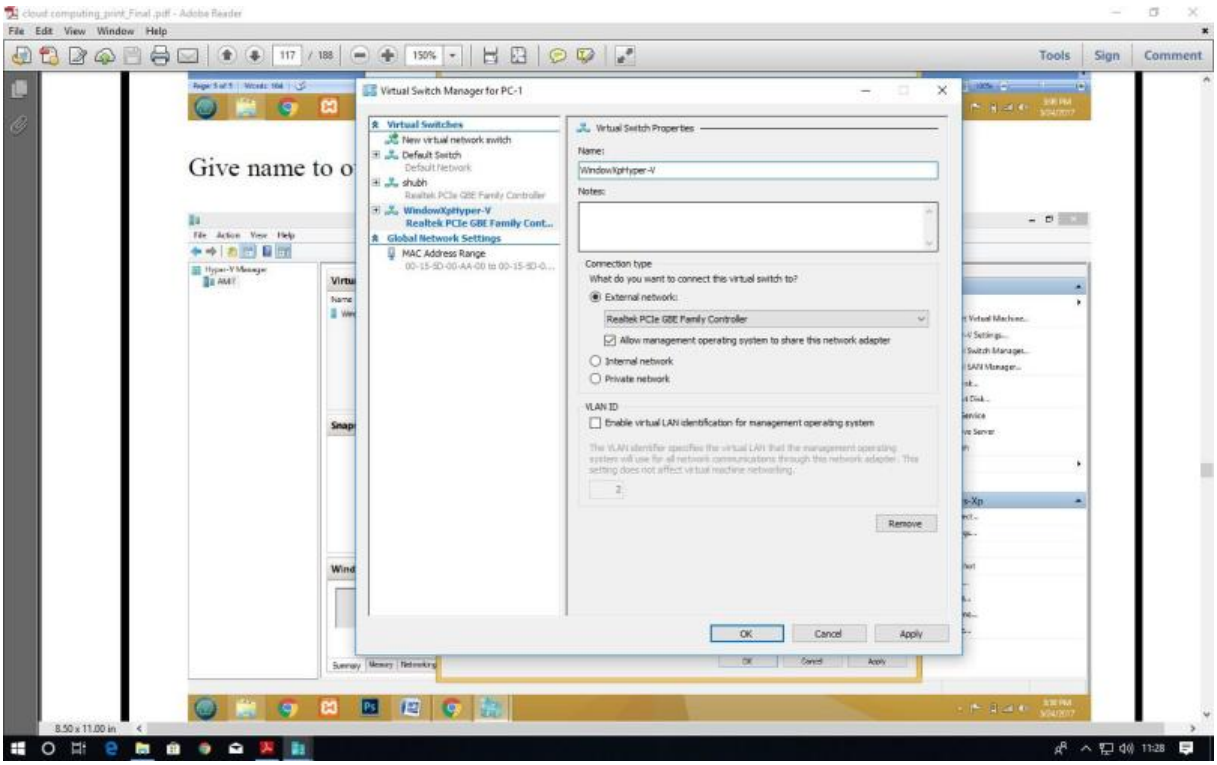
Select External as a connection type and then click on create virtual switch



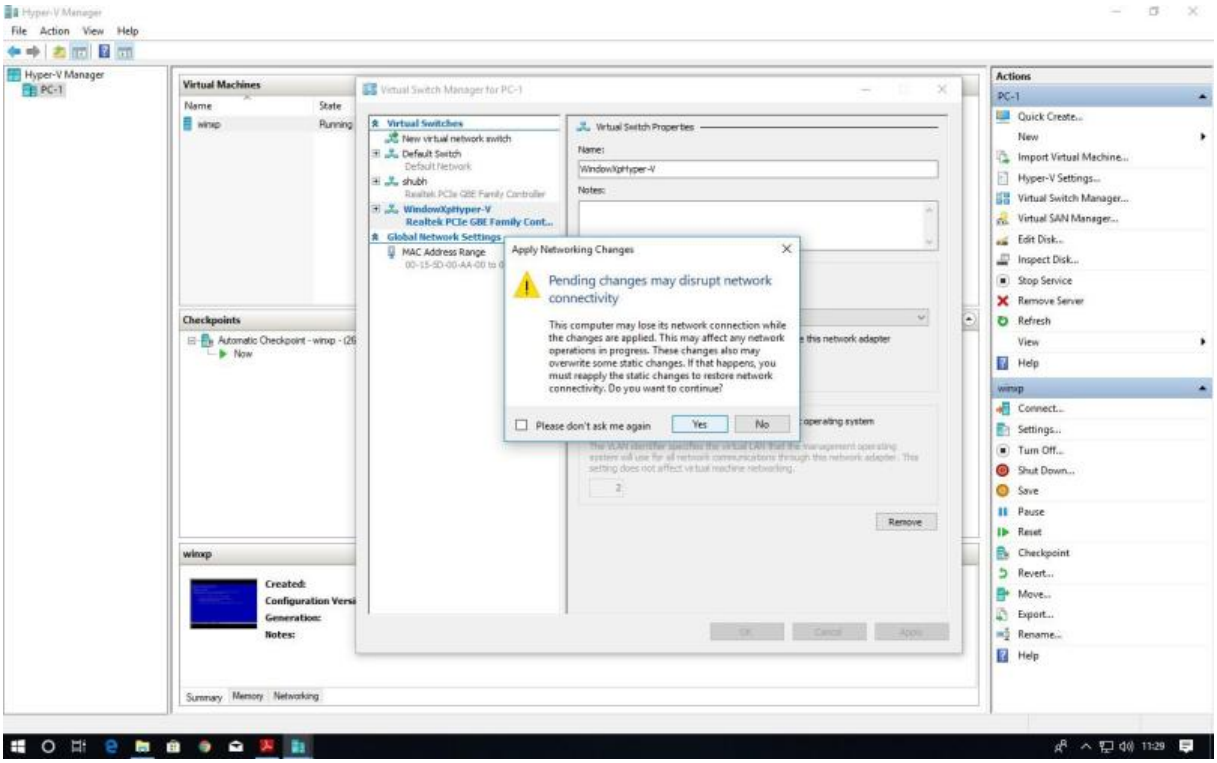
Give name to our virtual switch then click on apply button



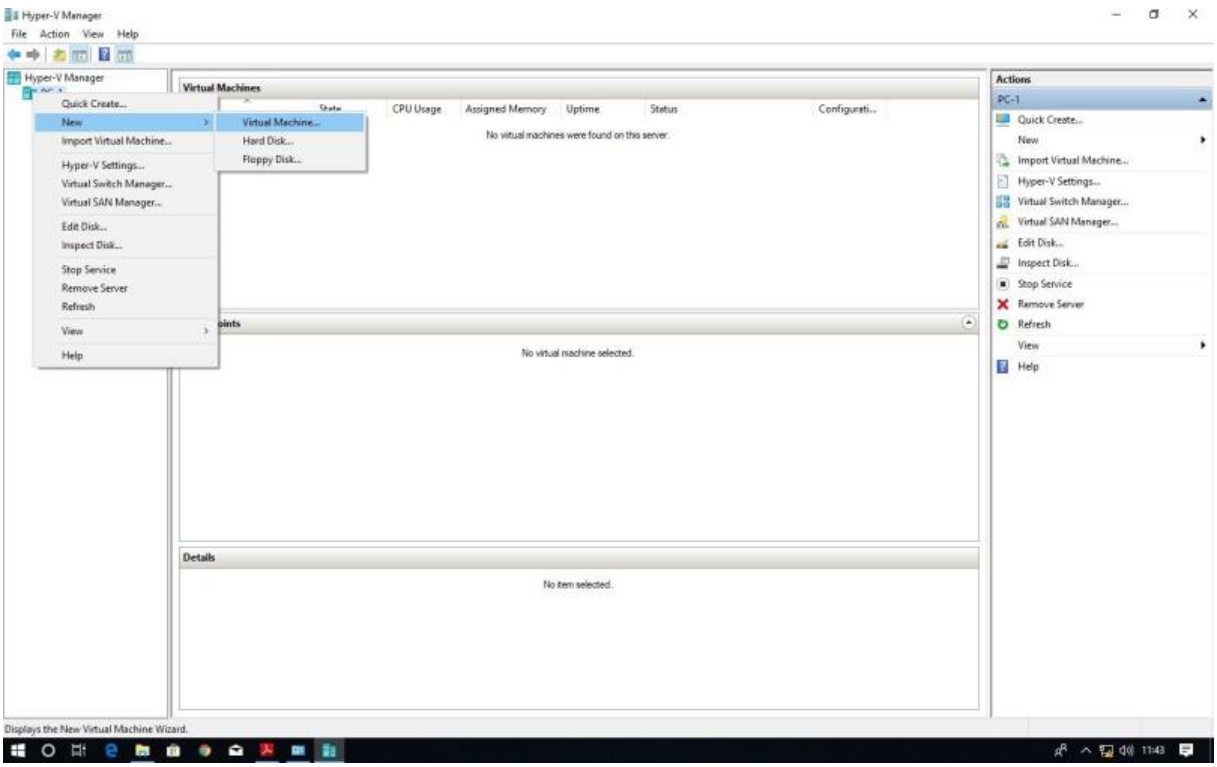




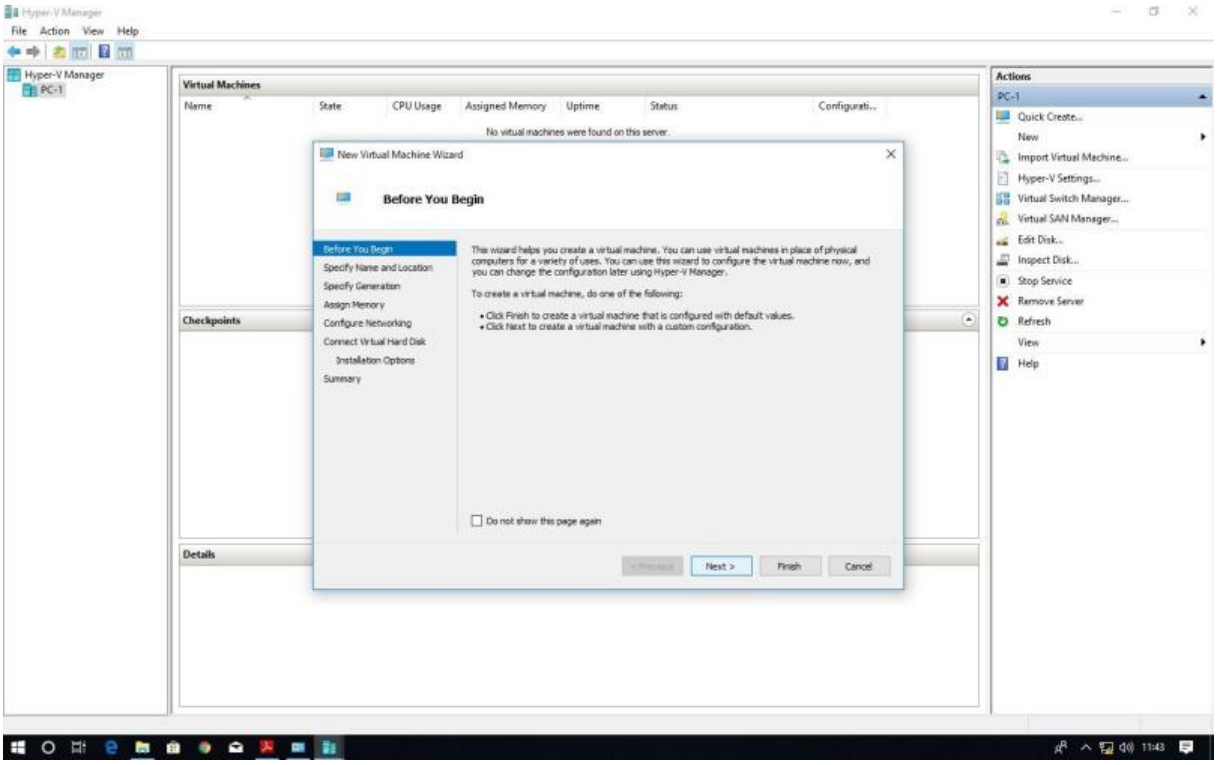
after click on Apply button it will show warning about our connection
click on yes



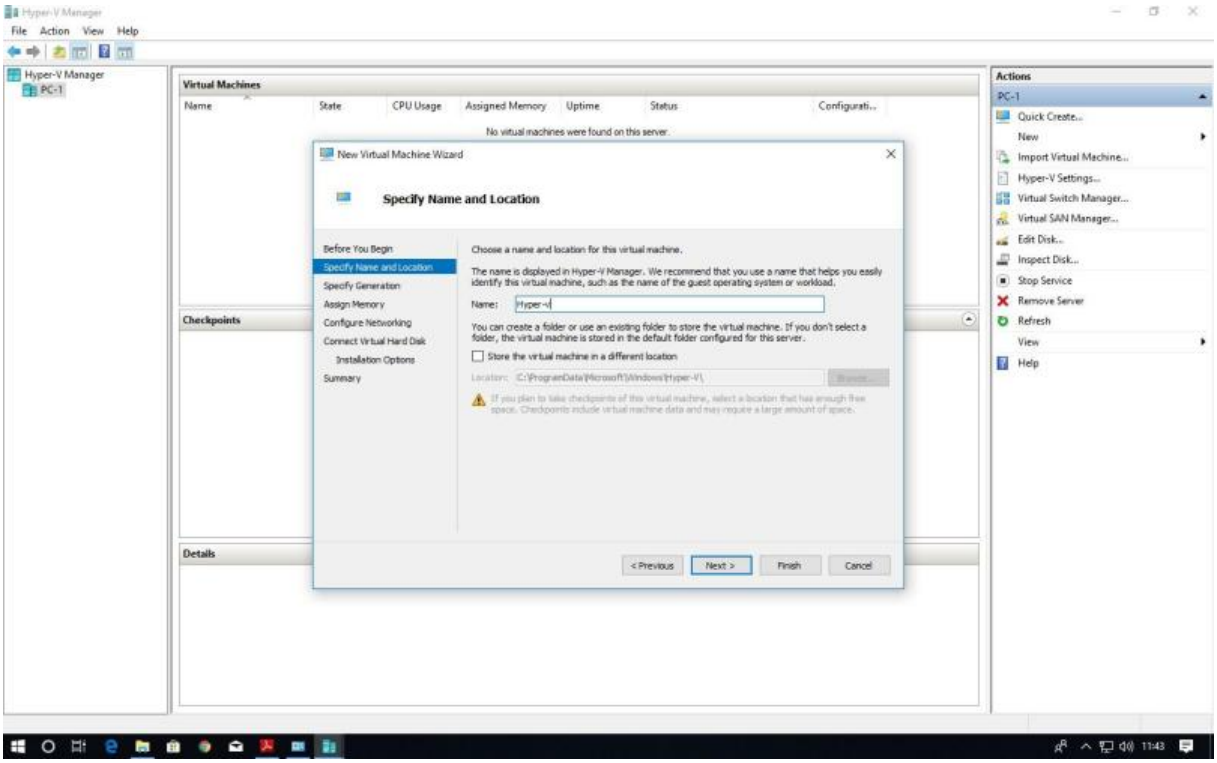
Now right click on server and select new virtual machine



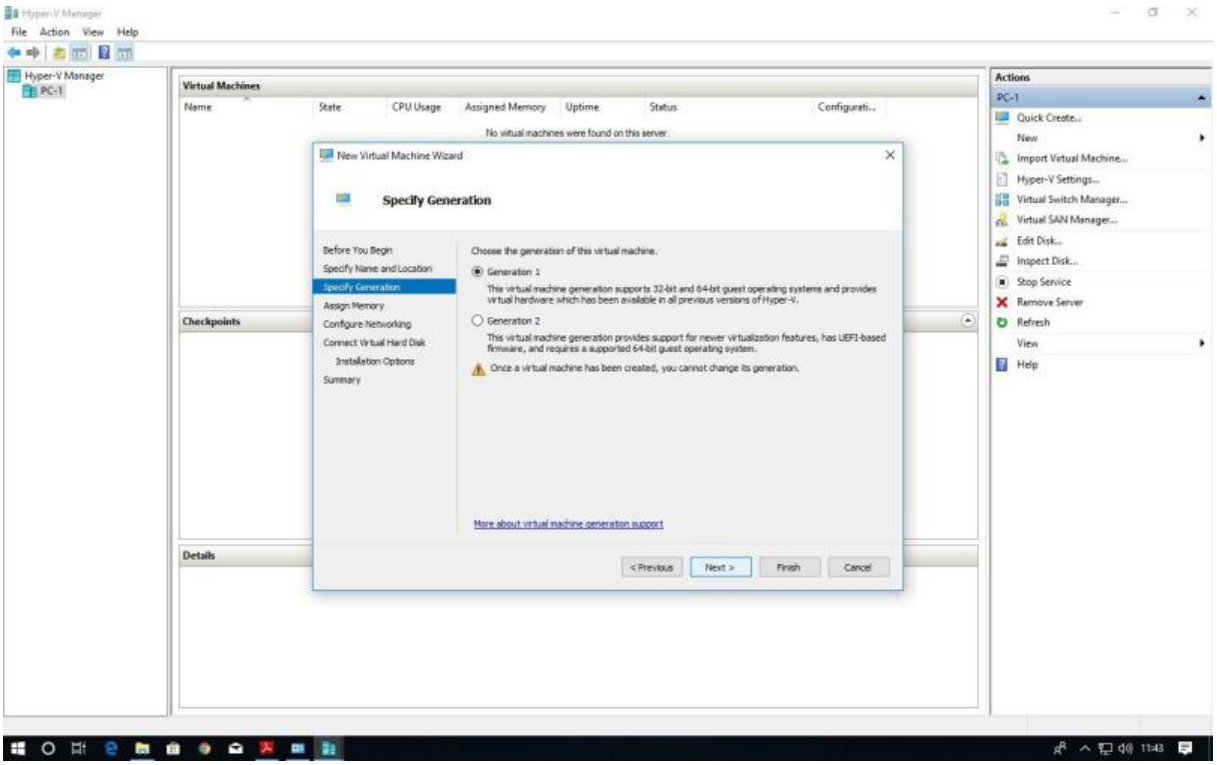
click on next button



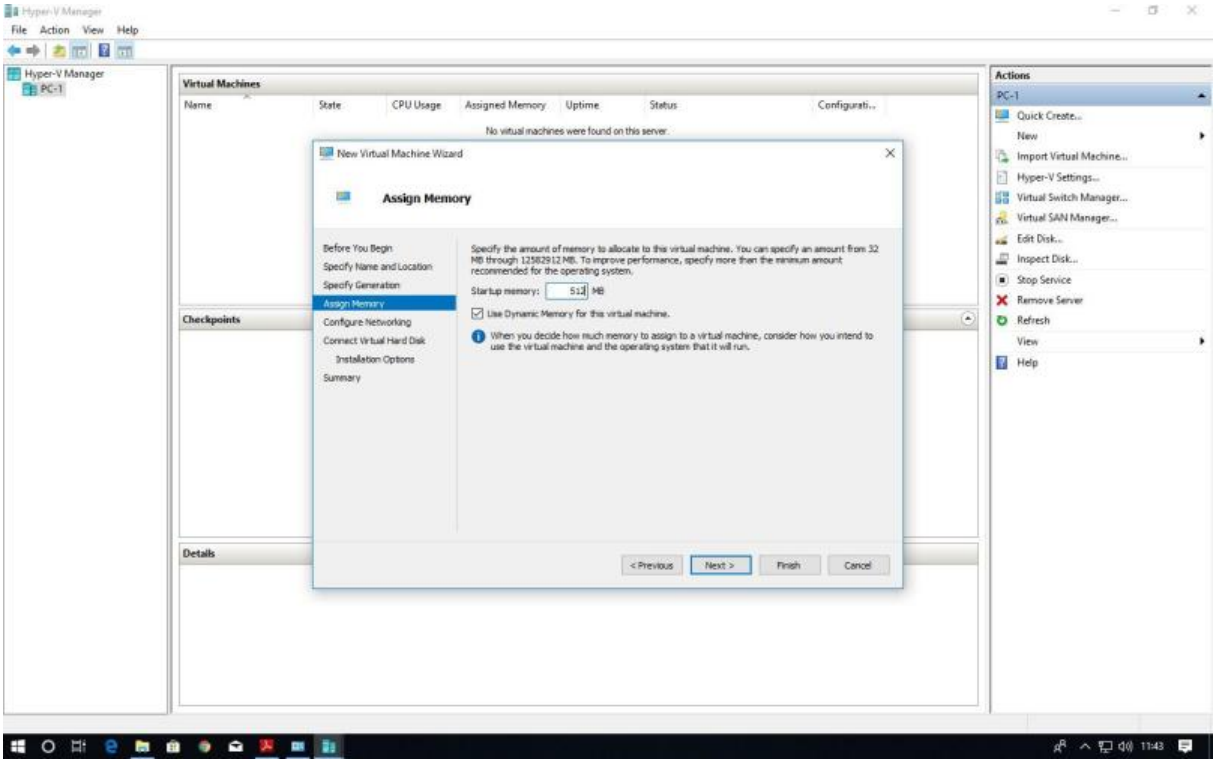
Provide name to virtual machine then click on Next button



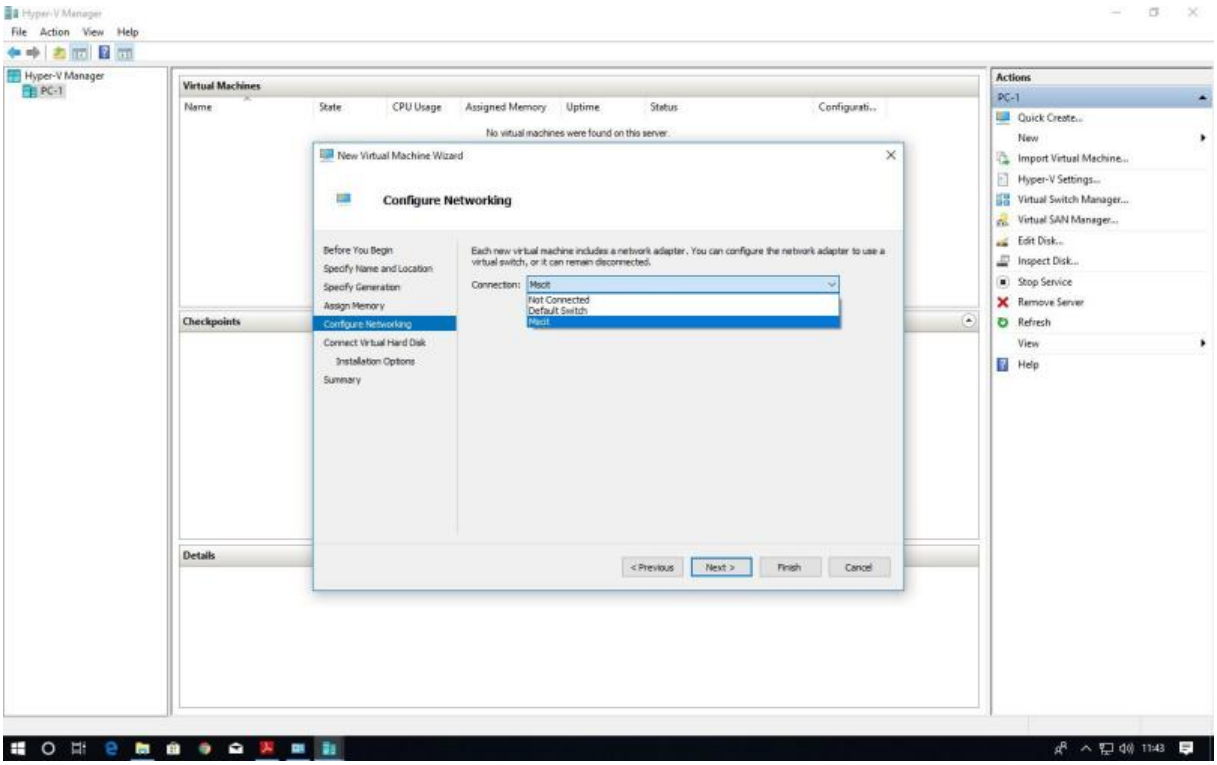
Specify generation : generation 1



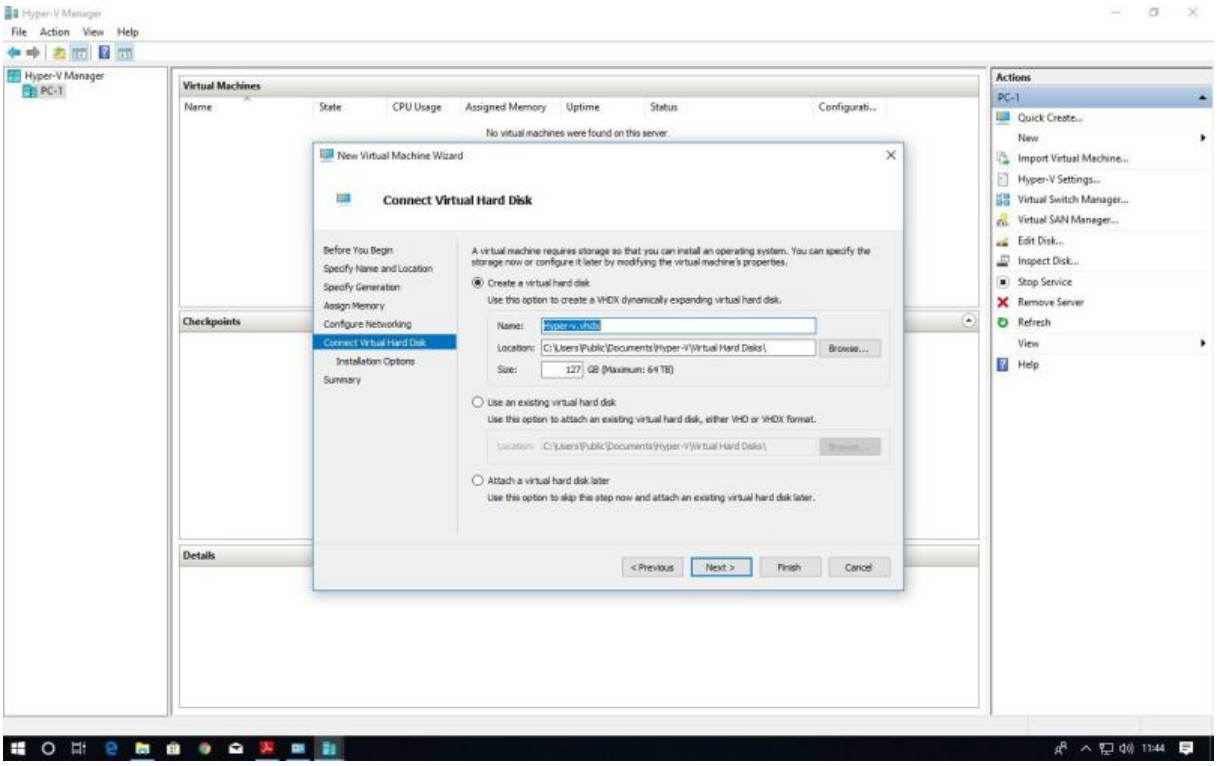
tick on use **dynamic memory for this virtual machine**



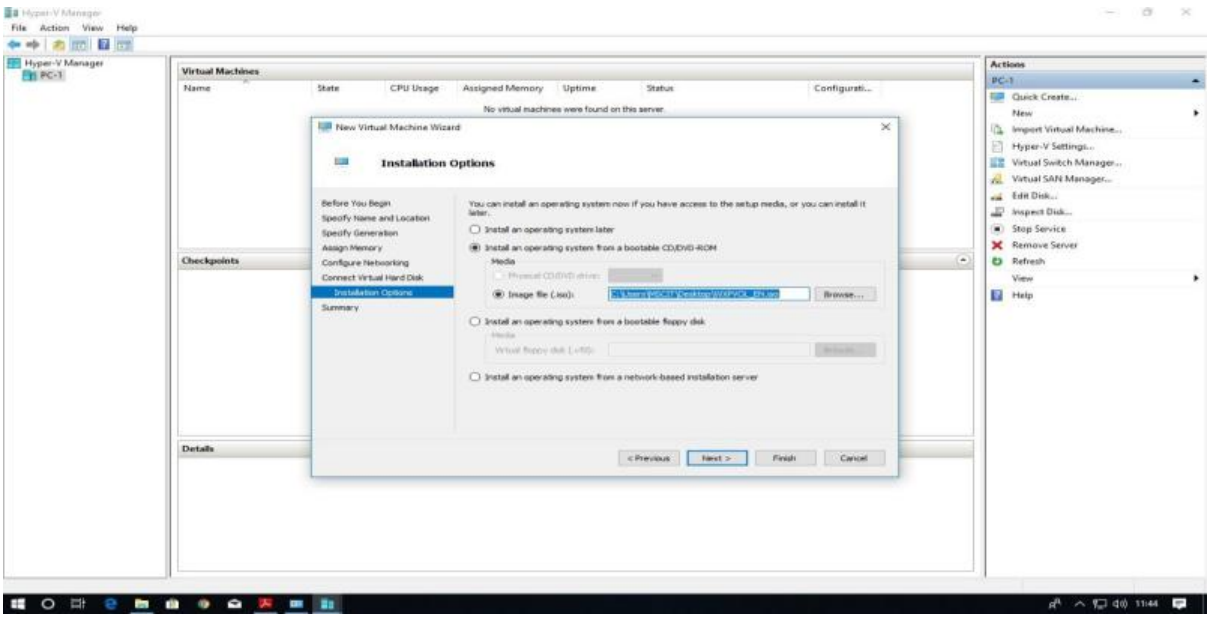
Select switch which we created earlier for our virtual machine from drop-down list and then click on next



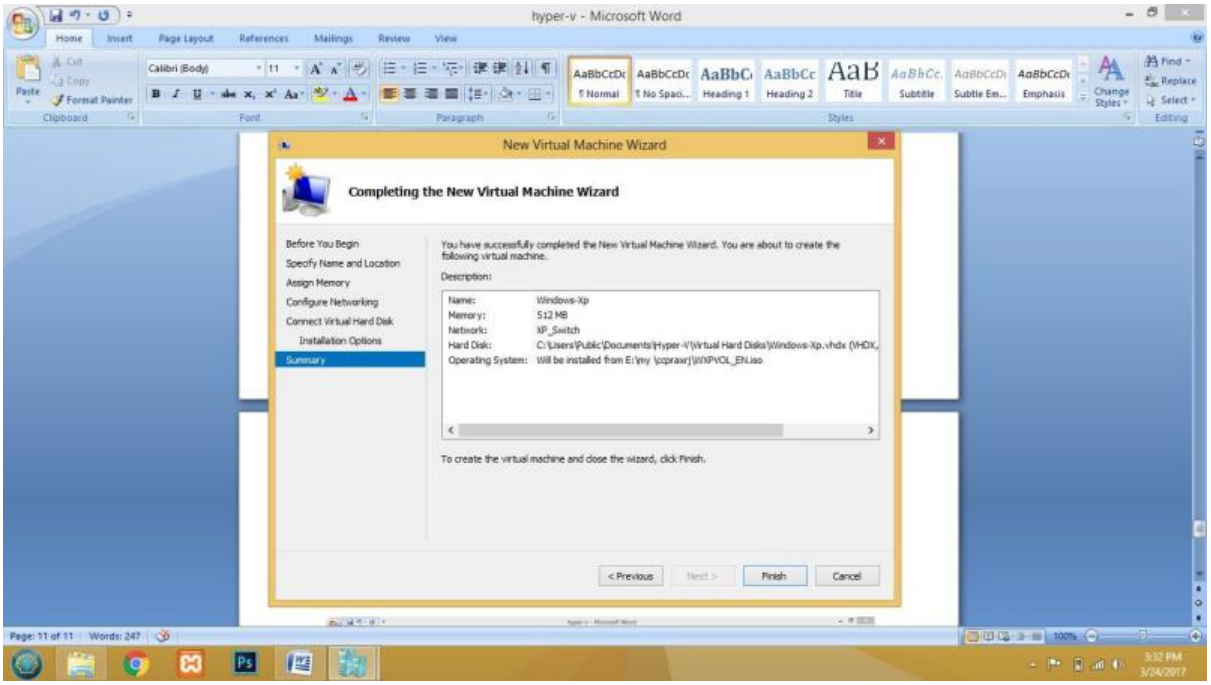
Description of virtual machine and location where it will store virtual machine related files and size require for this machine click on next



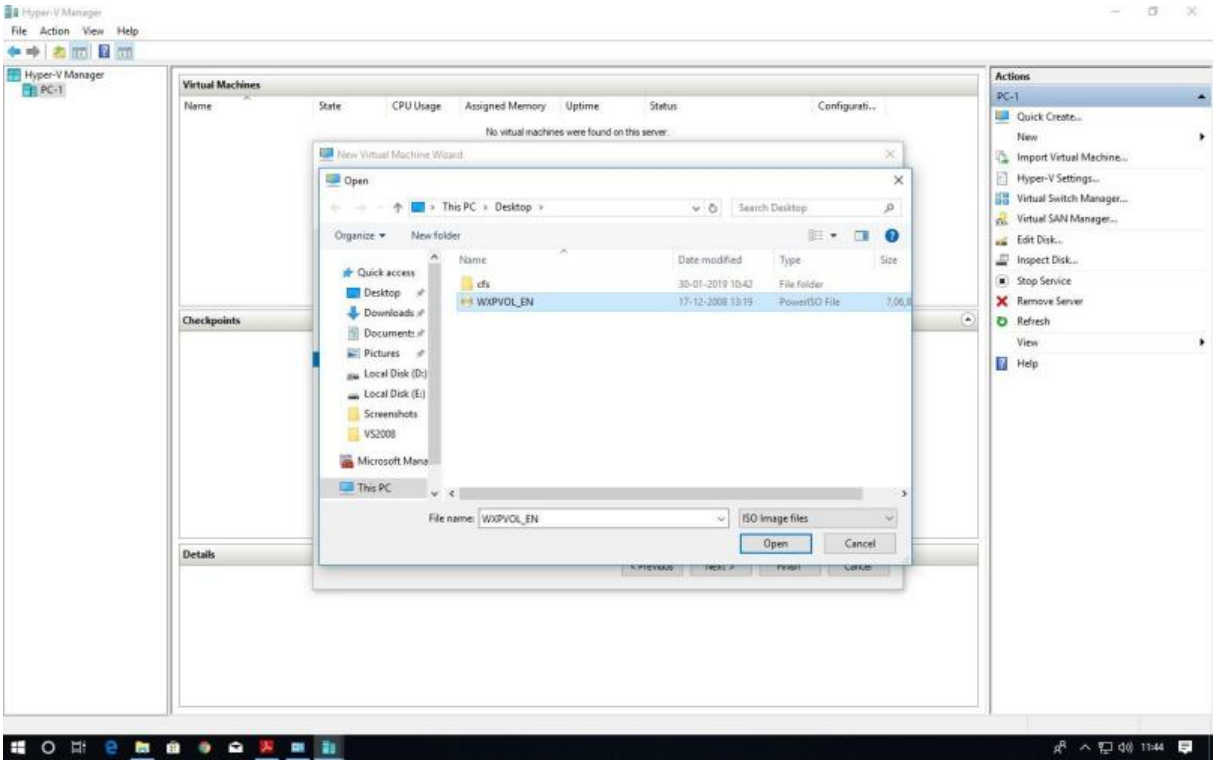
New virtual machine wizard panel will appear, where we will choose operating system which we want to install on virtual machine
select install an operating system from boot CD/DVD-ROM and then select Image file(.iso) and browse our OS iso file then click on next button



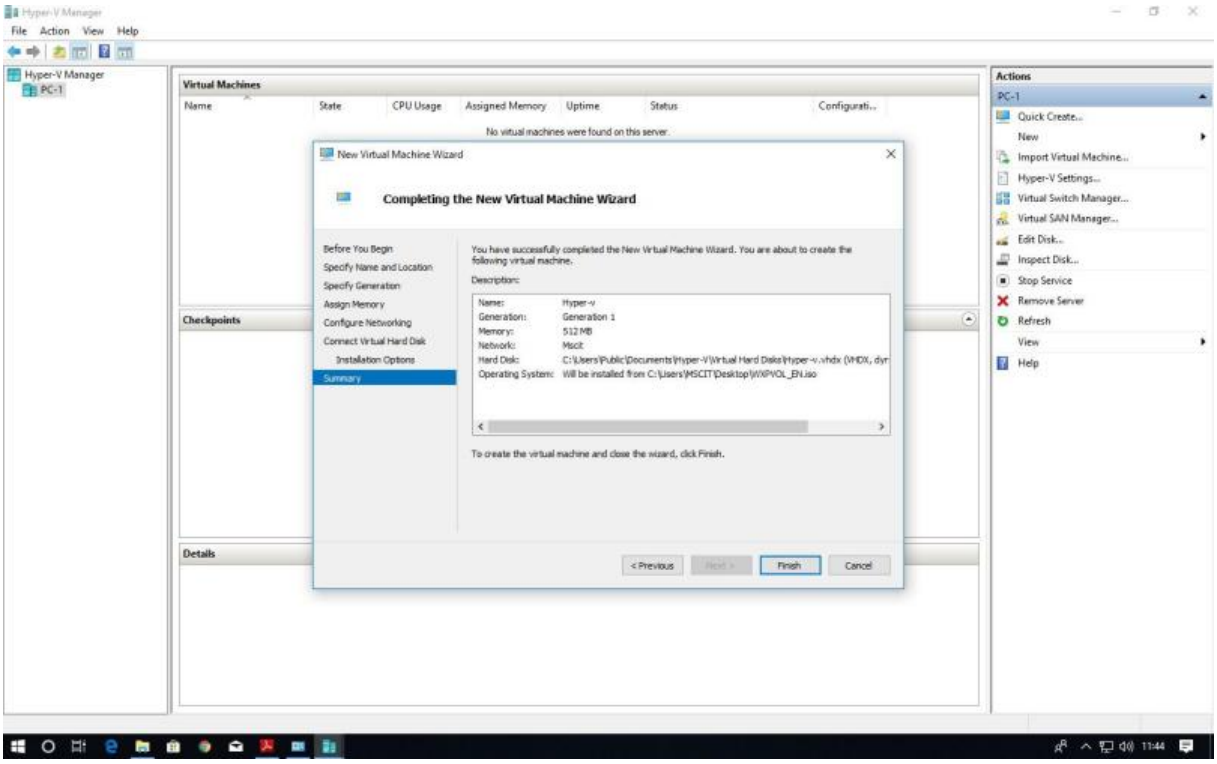
Summary report will be generated about virtual machine then click on Finish button



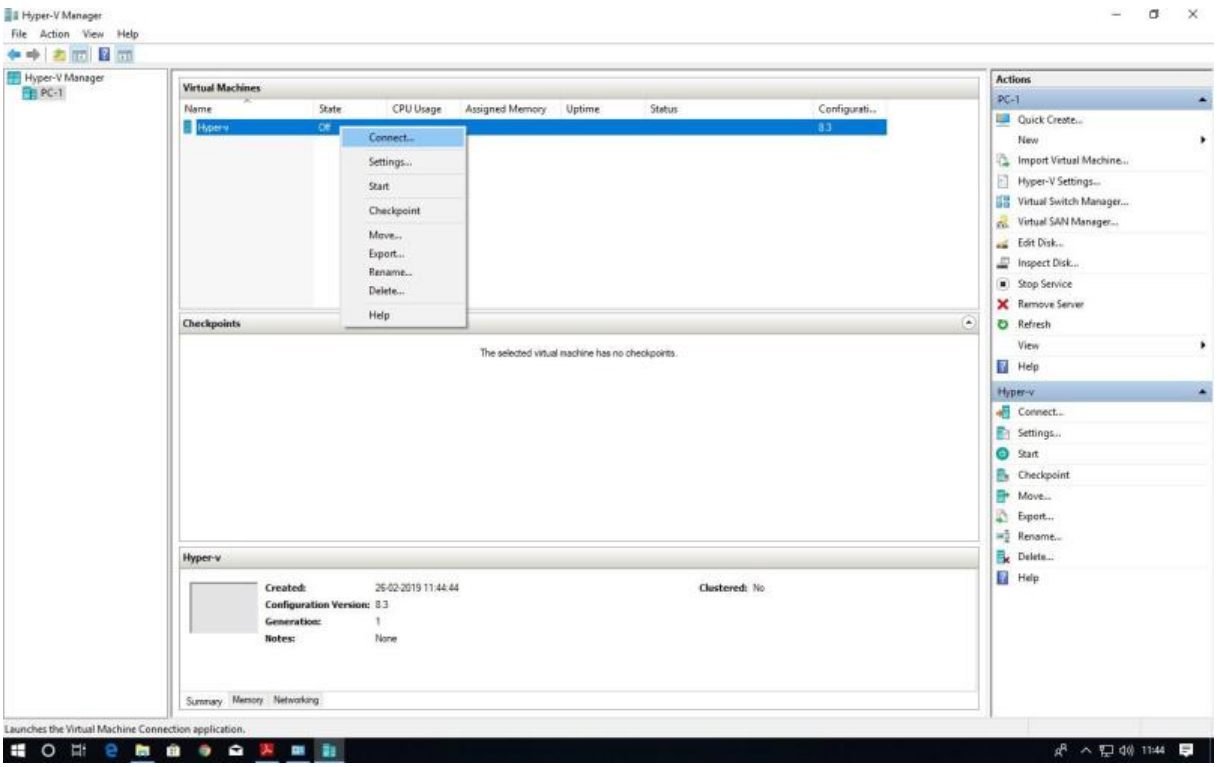
In virtual machine panel our virtual machine will appear which has off state



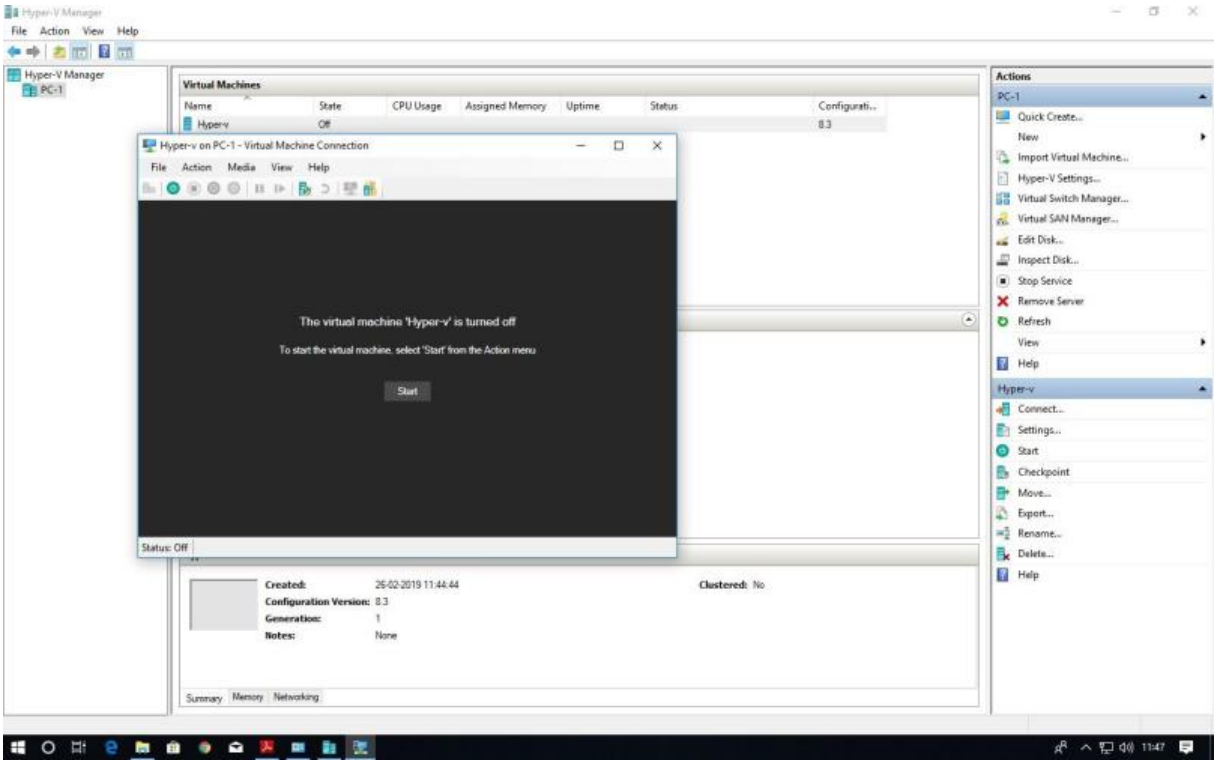
Click finish



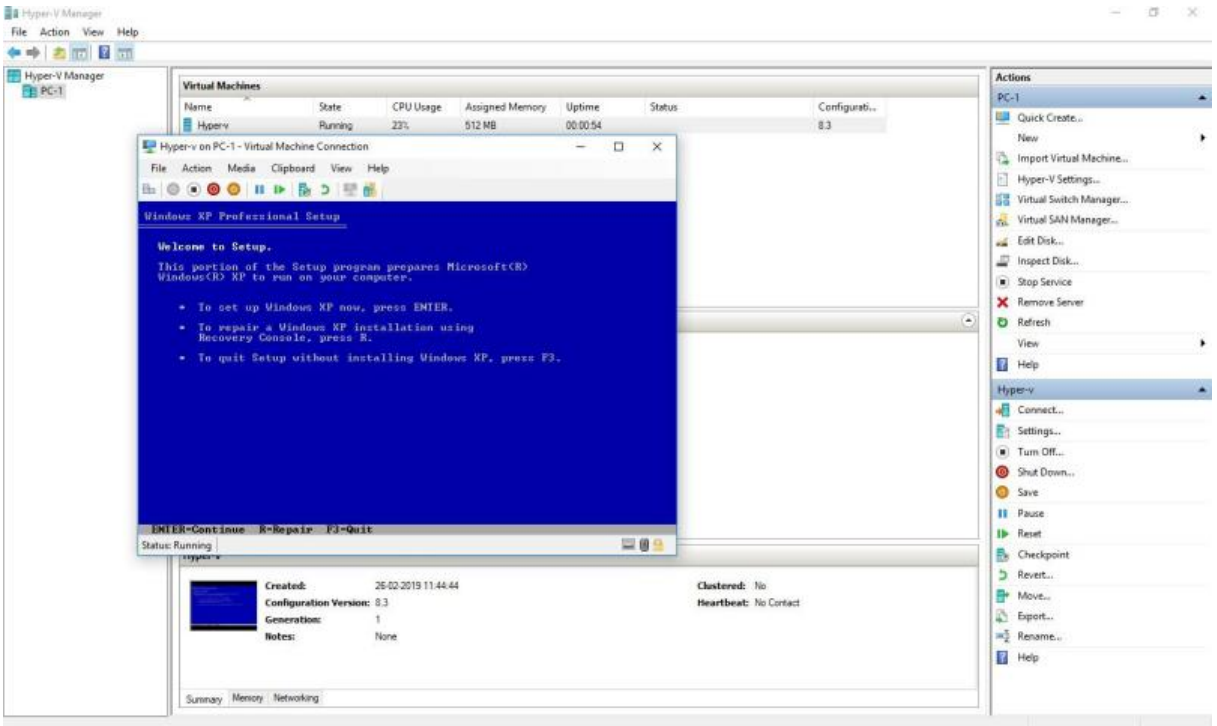
Right click on virtual machine and click on connect option



Now turn on virtual machine on

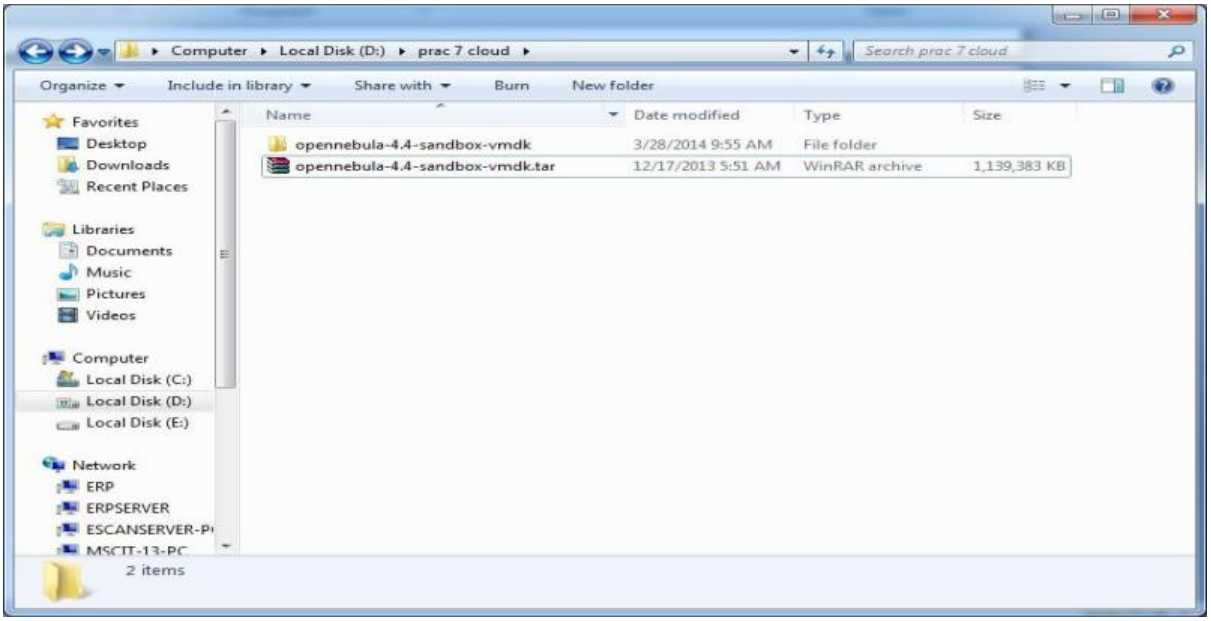


Virtual machine will start with below screen



PRACTICAL: 7
IMPLEMENT OPENNEBULA

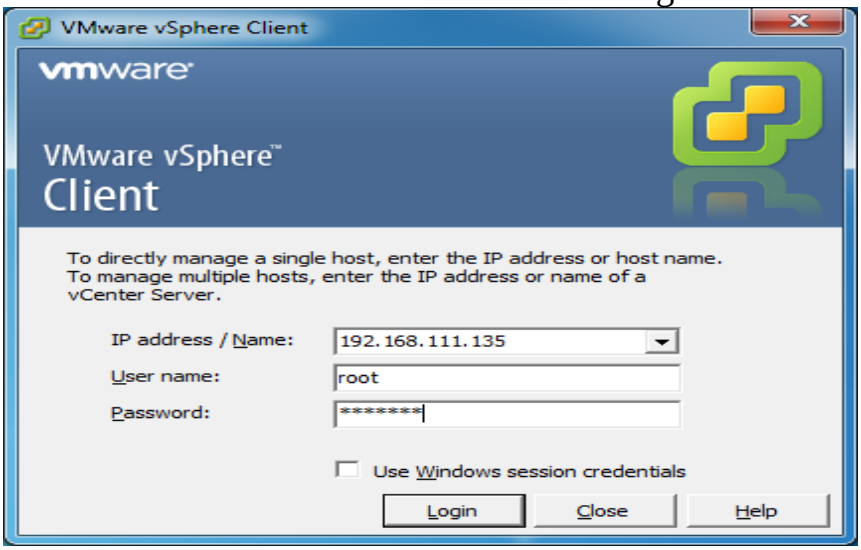
Client configuration software needed (Download Opennebula sandbox software from open nebula.org)



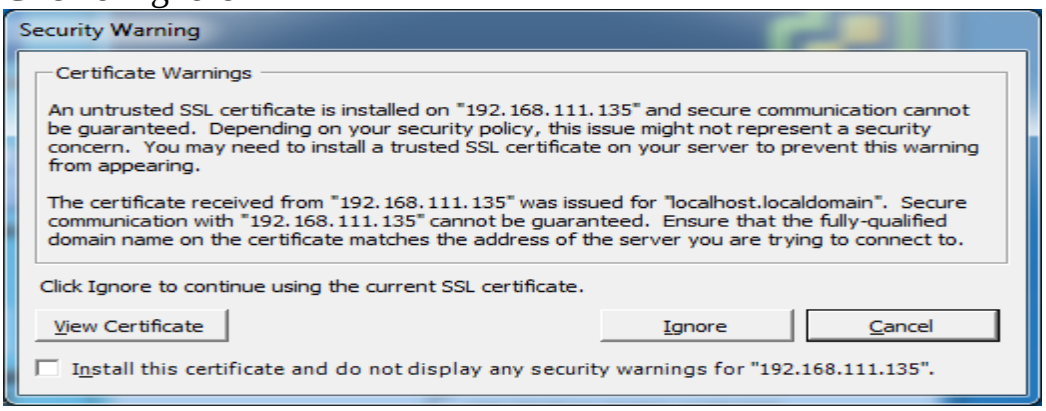
Start vSphere Client.

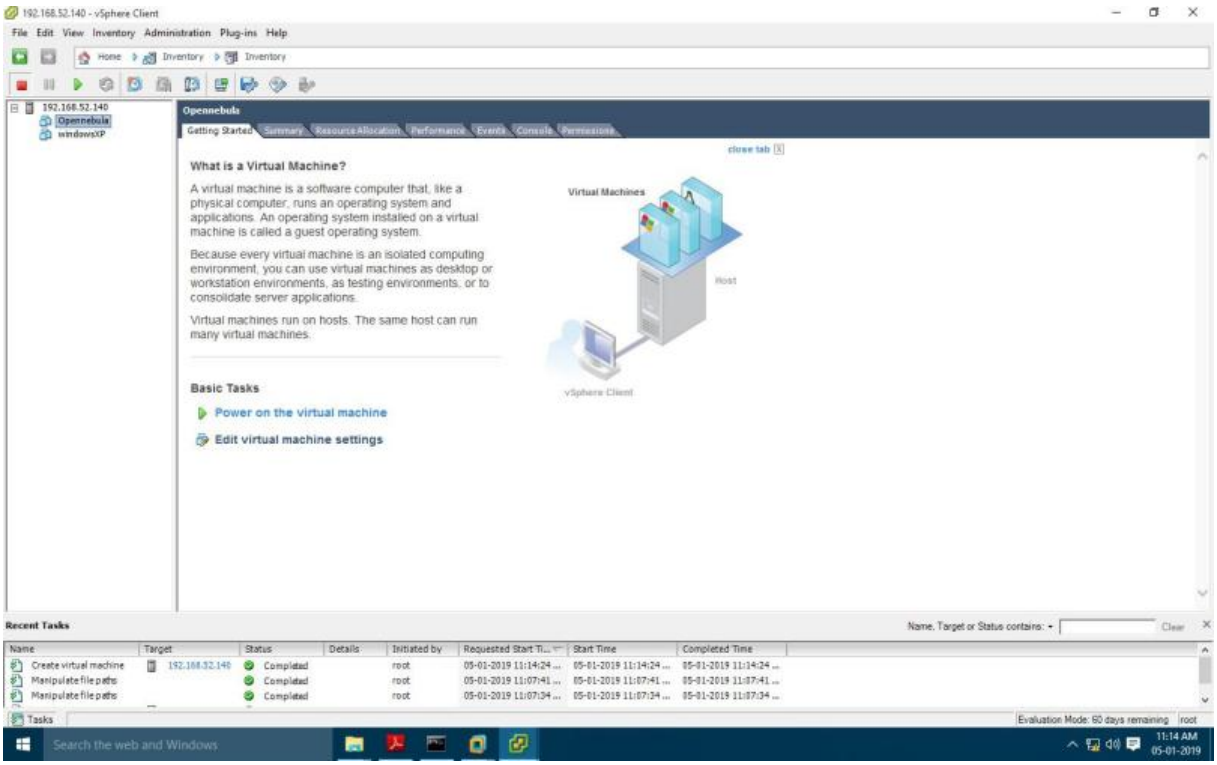
- Enter Static IP address

- Enter Username and Password. Click Login.

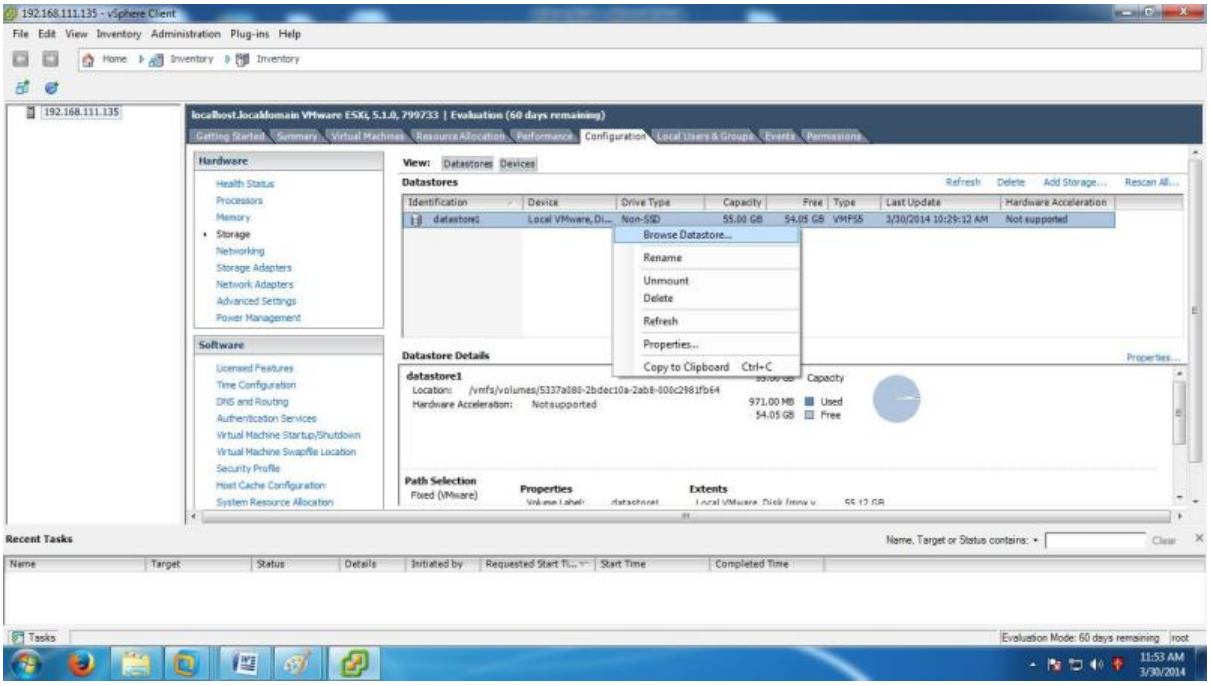


Click on ignore

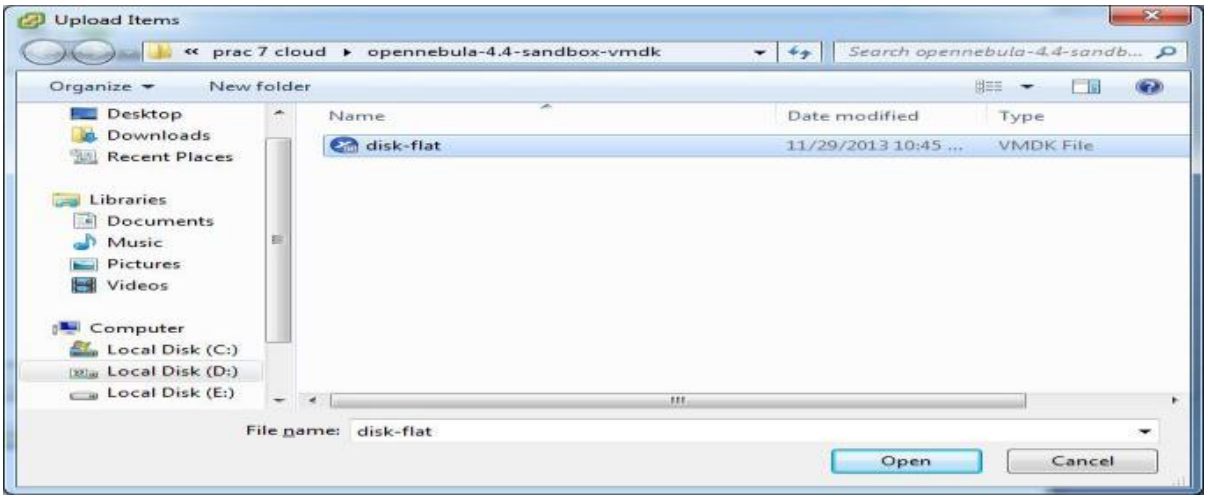




Go to Configuration tab select storage and right click on data store1 and select Browse Datastore.

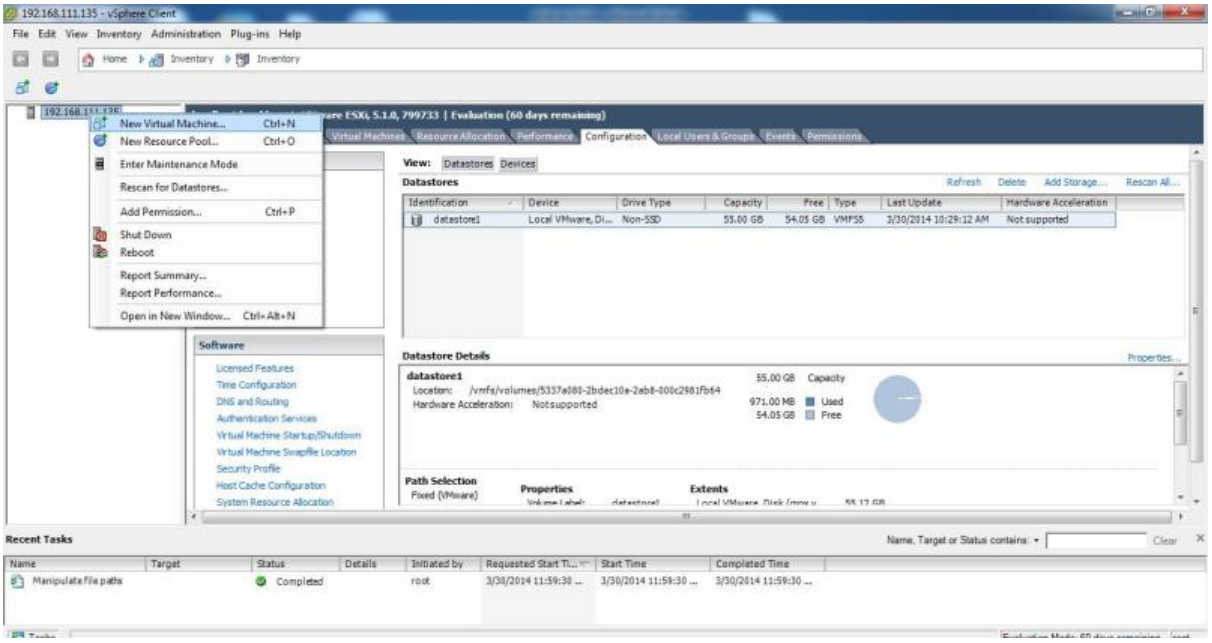


Go in this particular folder opennebula-4.4-sandbox-vmdk and select **disk-flat** file.

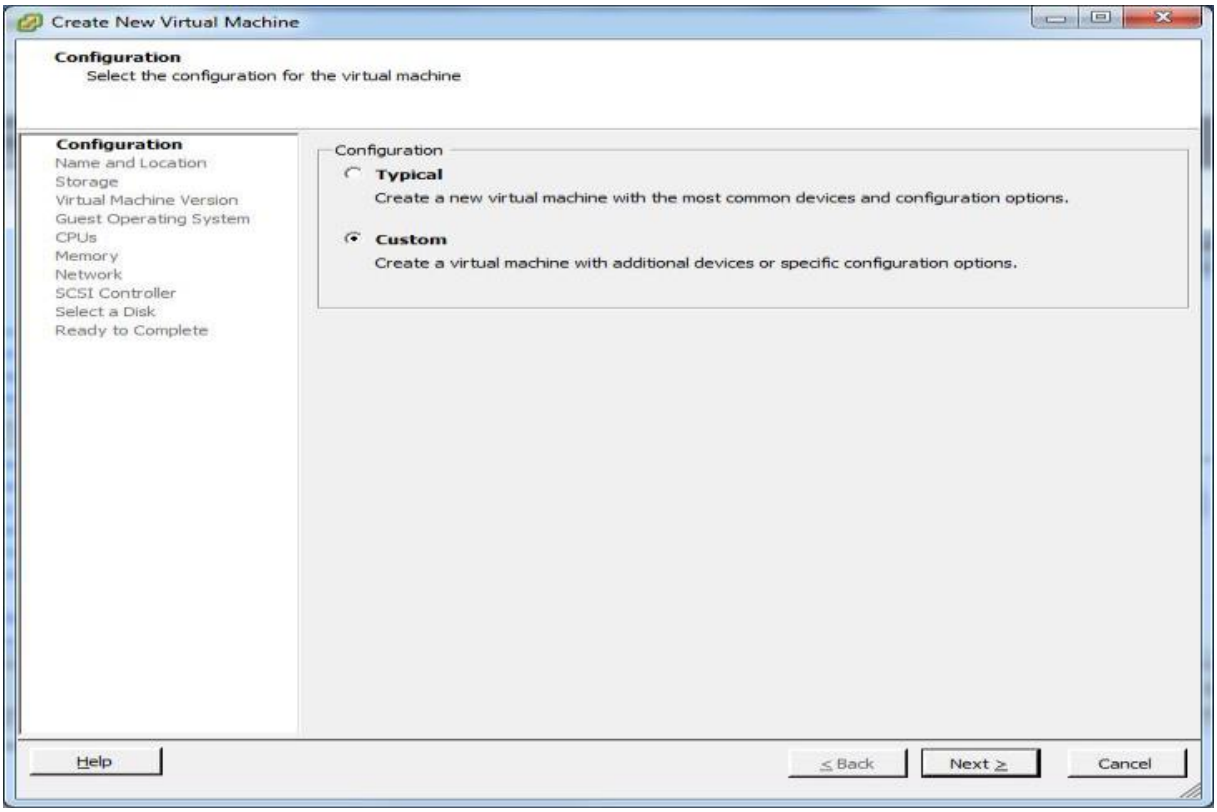


Create a new virtual machine.

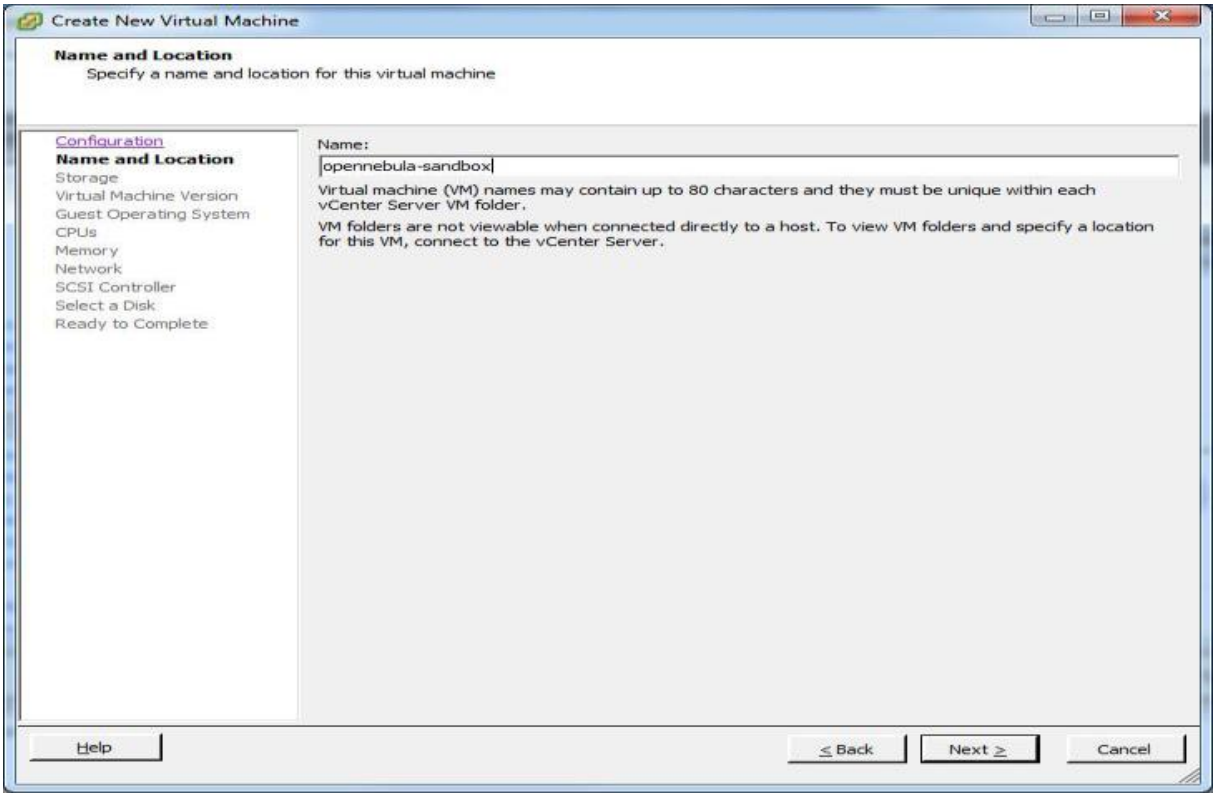
- On the VI client click on the (new virtual machine) icon



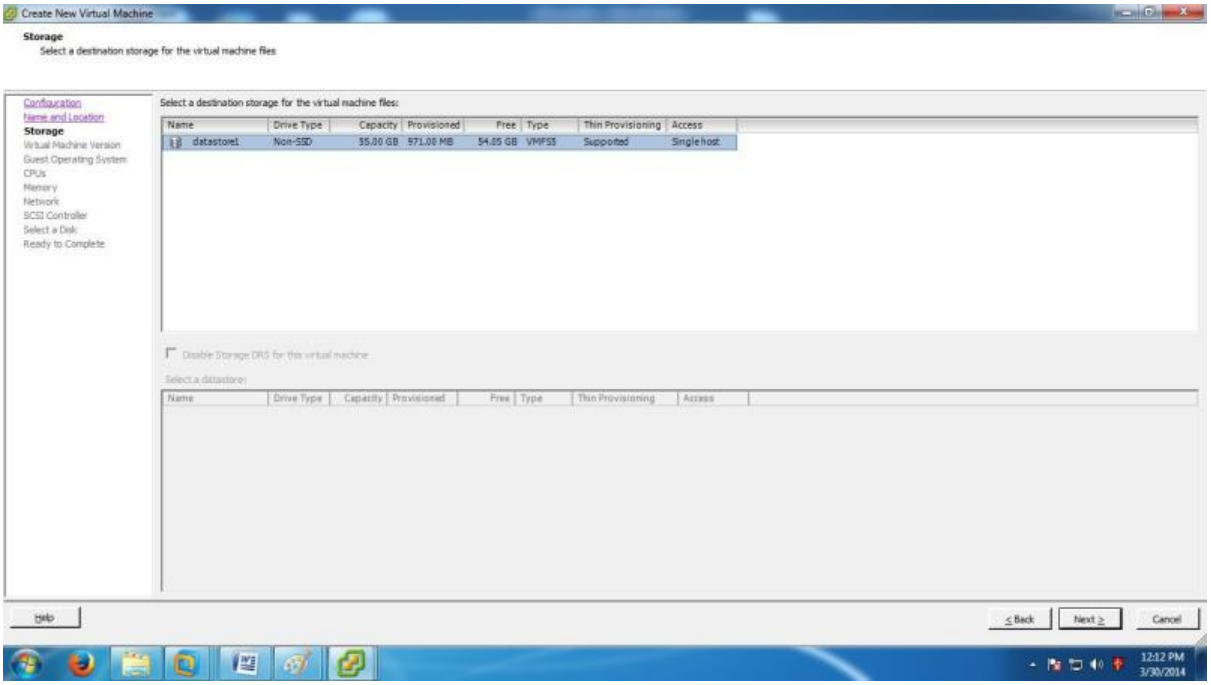
Select custom virtual machine and click on next.



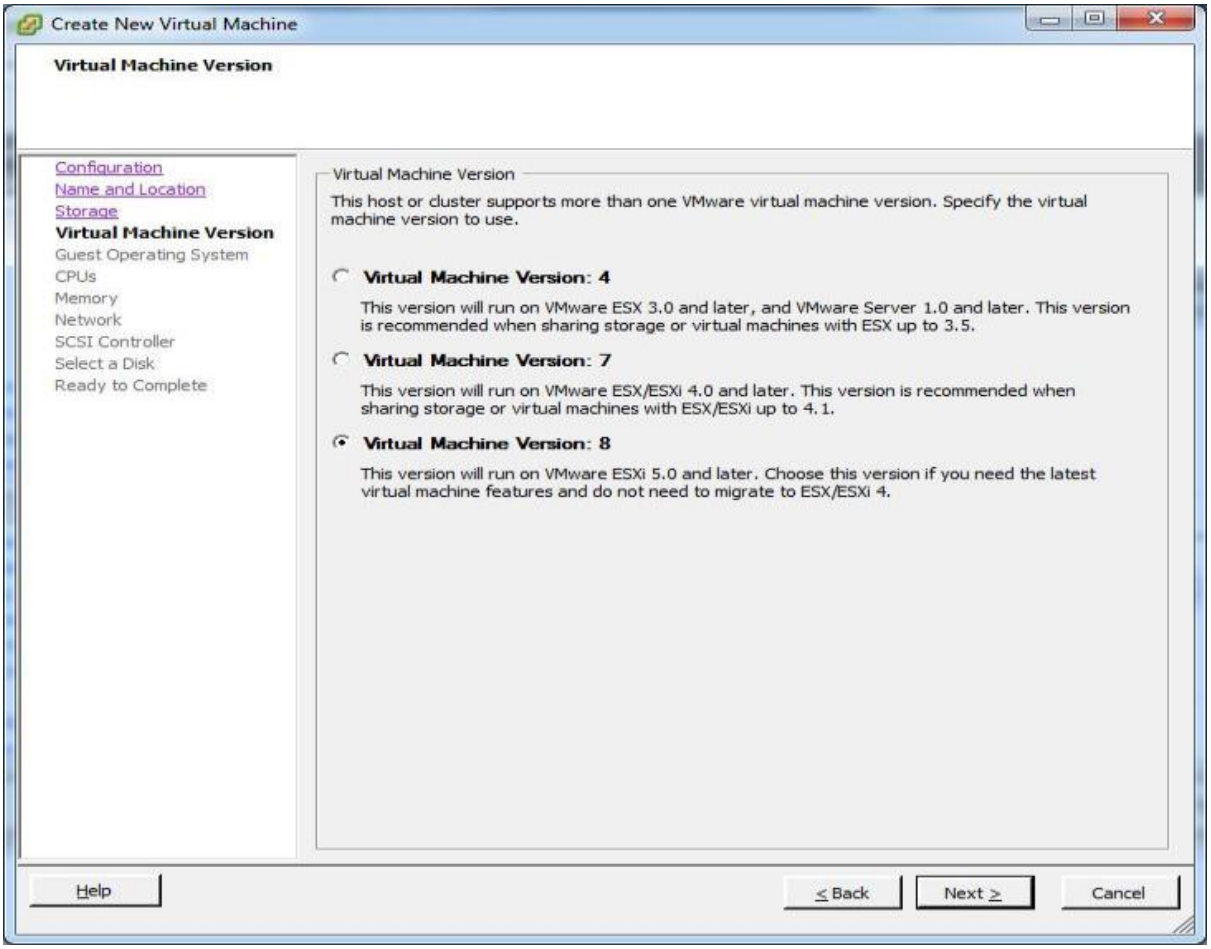
Name : Opennebula-sandbox and click on next.



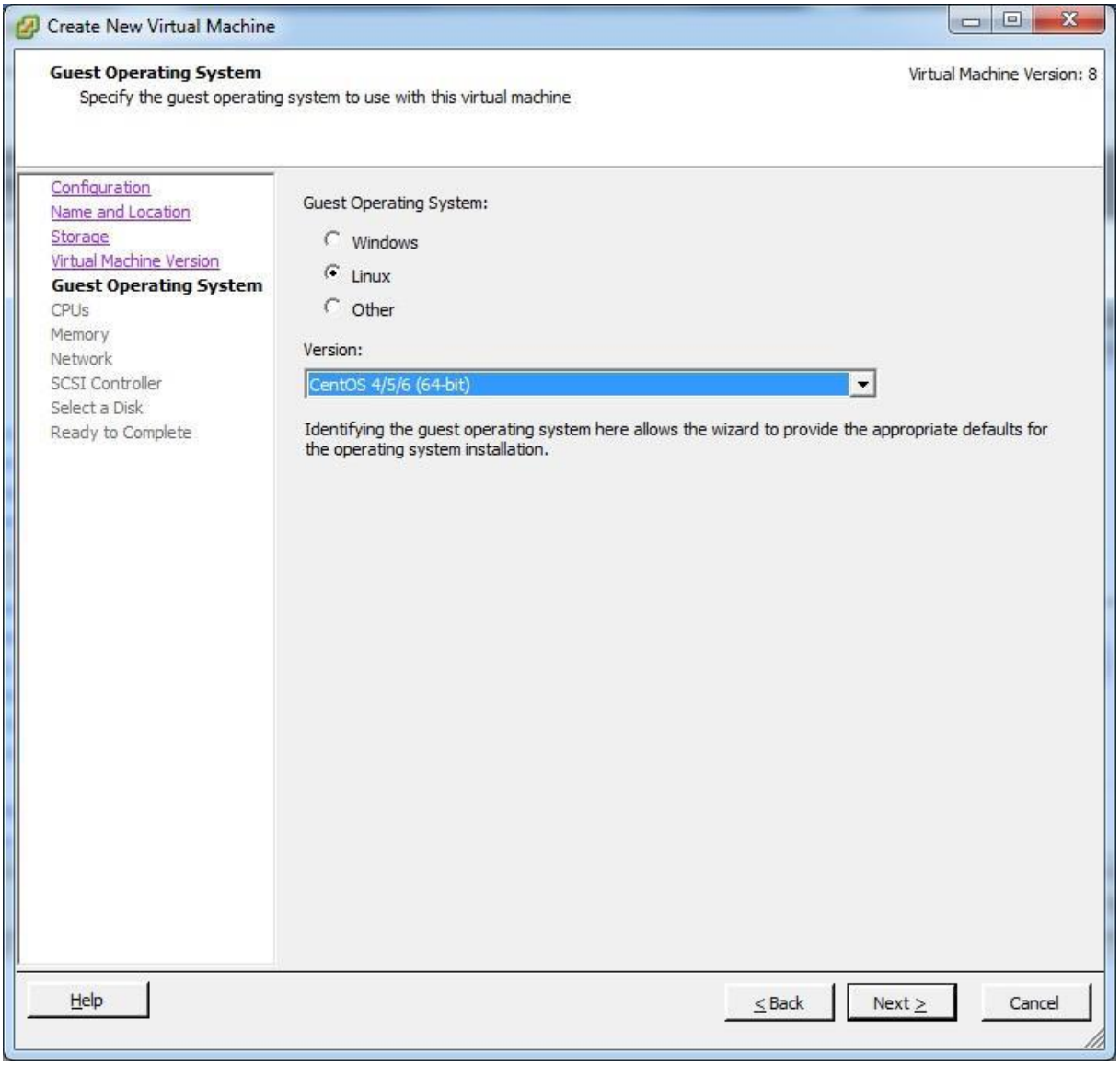
Select the same data store as in the screen and click on next.



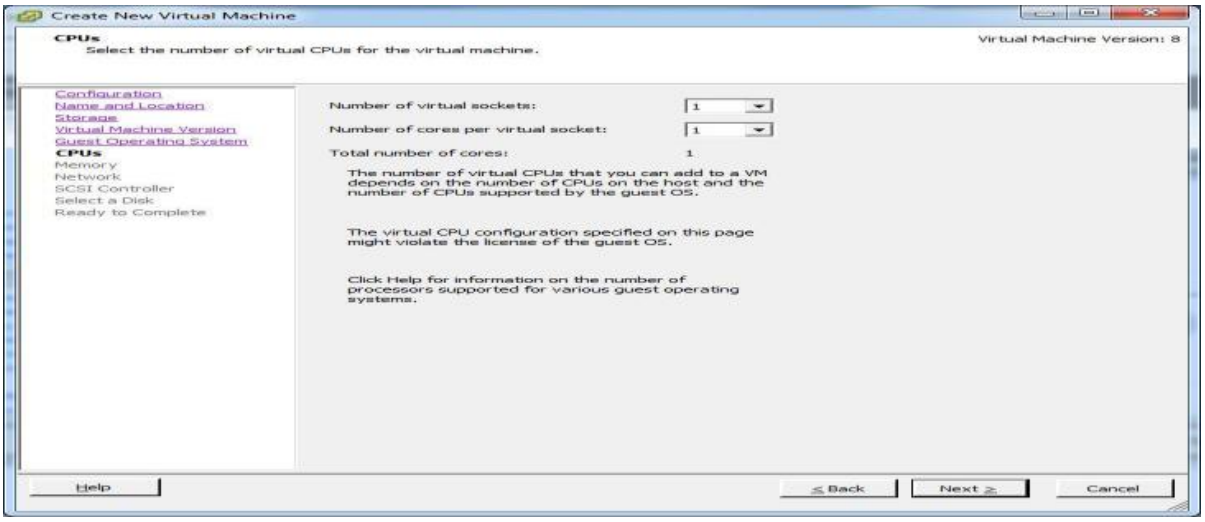
Select virtual machine version 8 and click on next.



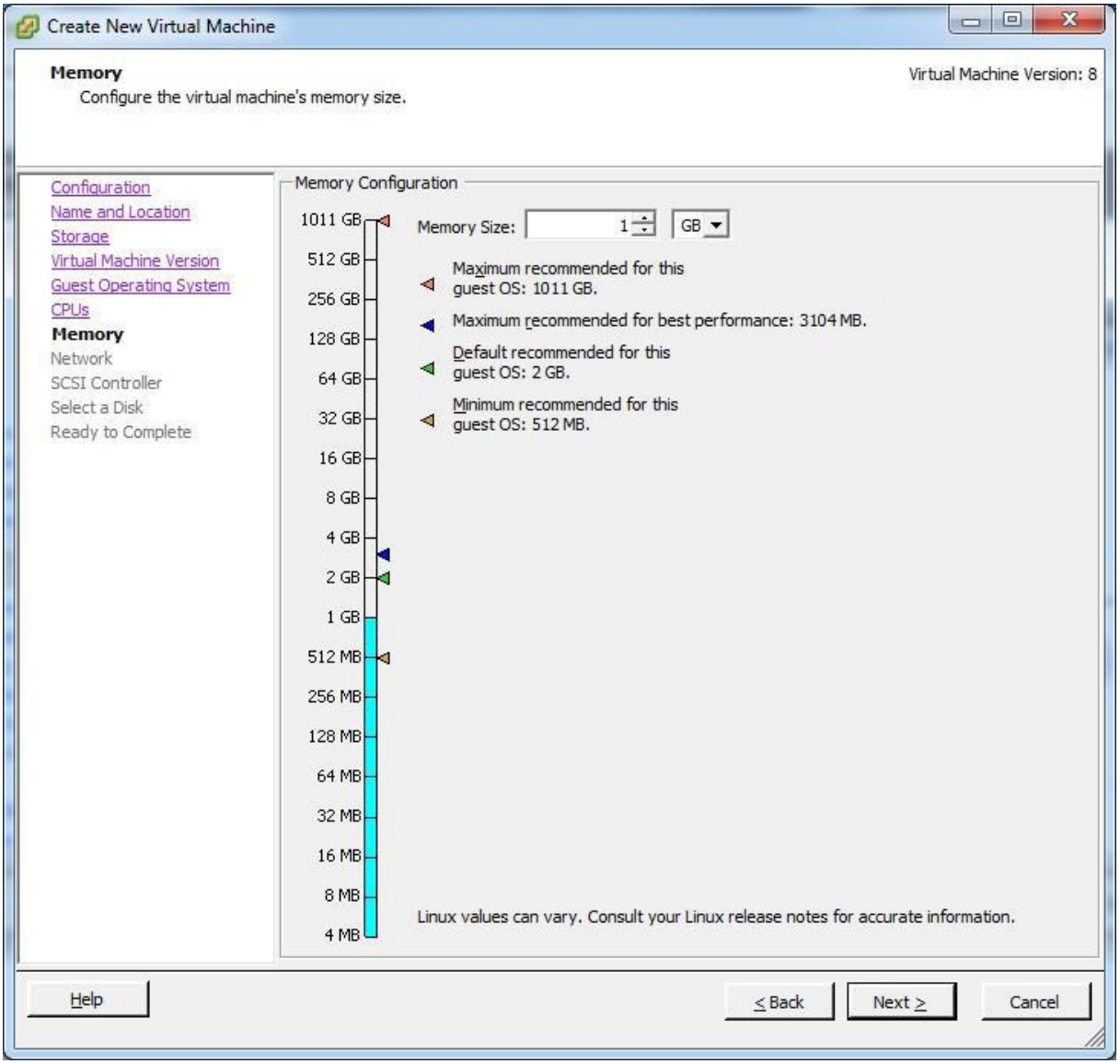
Select linux option-->and then select CentOS 4/5/6(64-bit) and click on next.



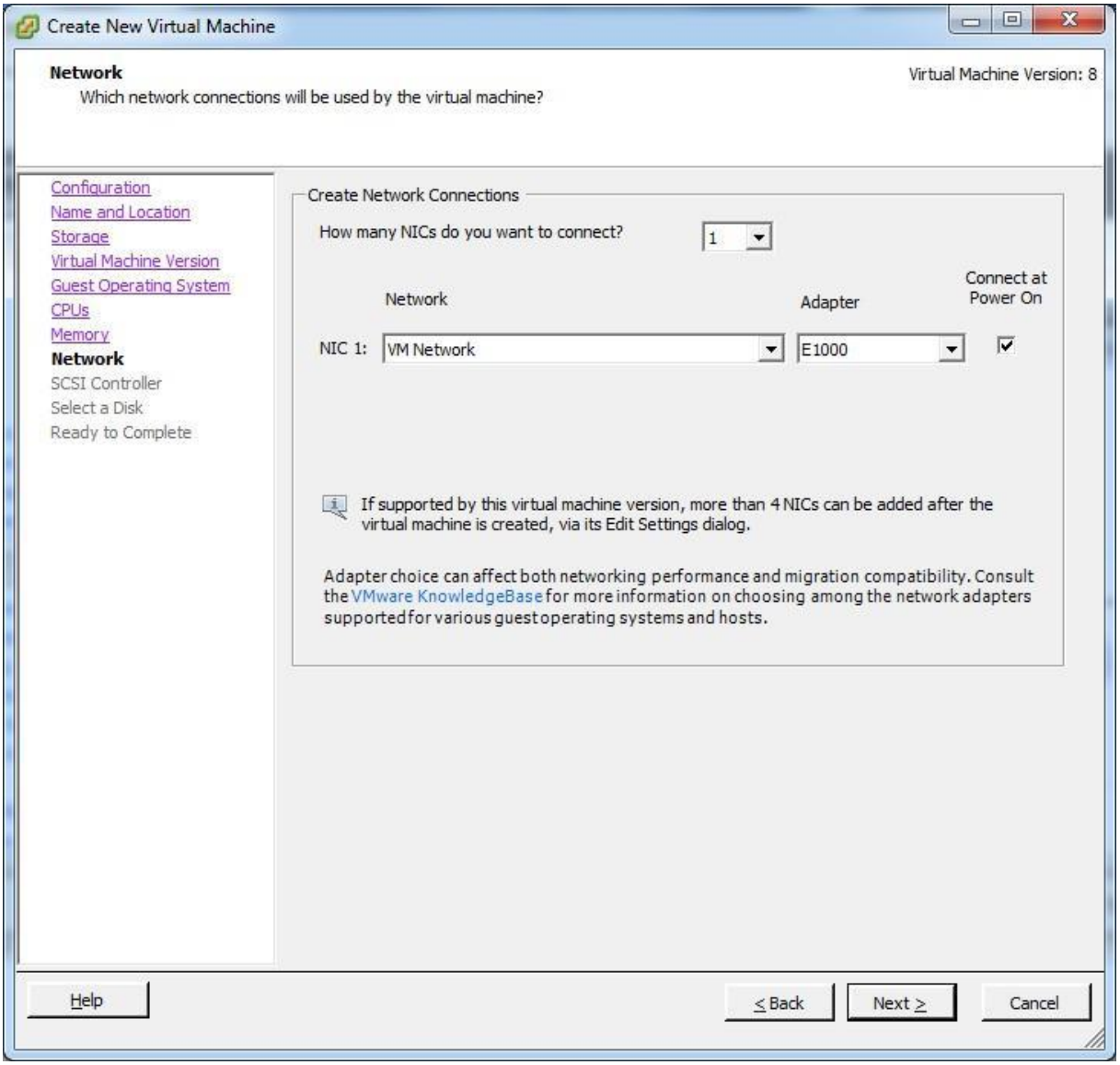
CPUs: Accept the defaults and click next.



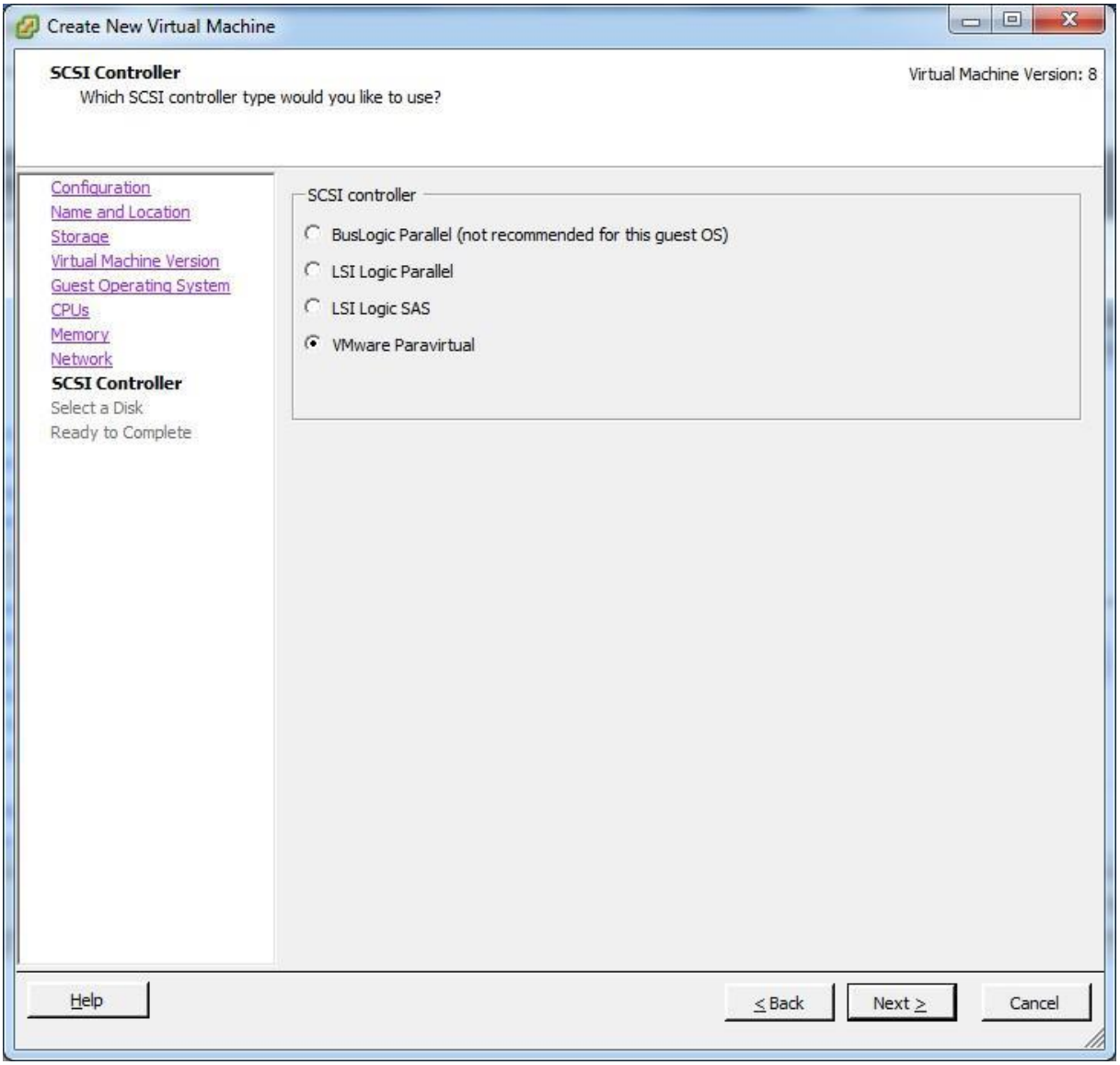
Select memory as 1 GB and click next



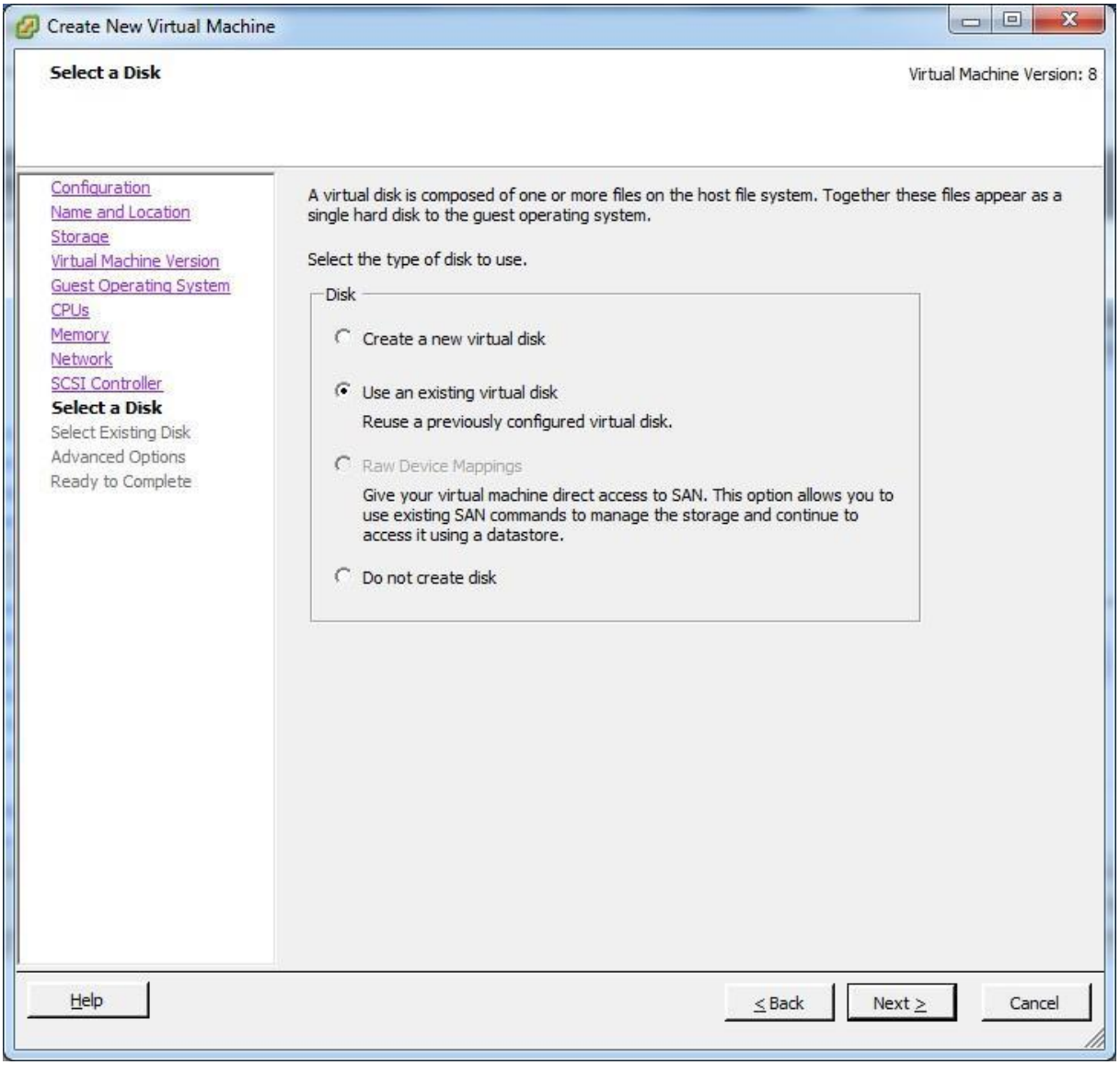
Select it as default and click next



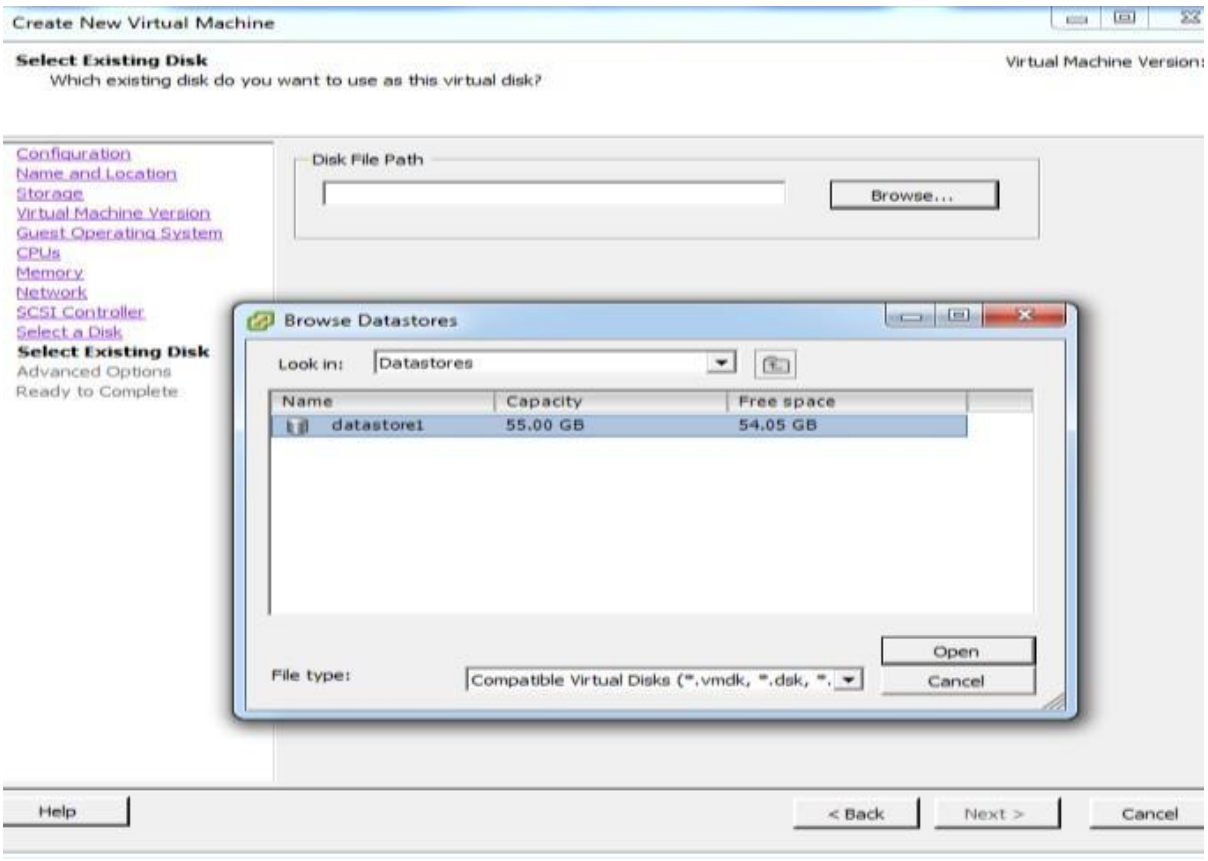
In the SCSI controller select as VMware Paravirtual and click next.



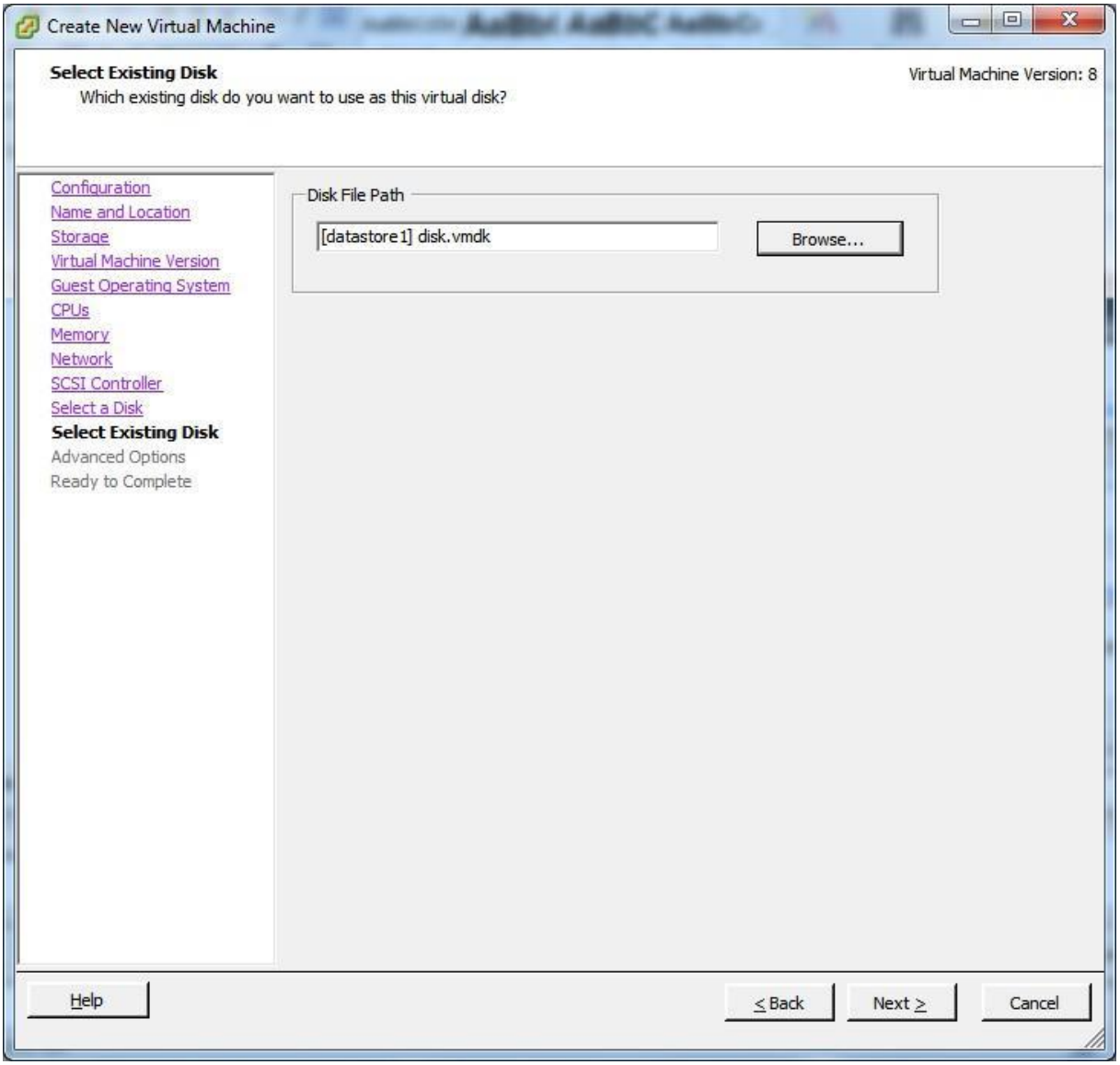
Select disk --> use an existing virtual disk and click next.

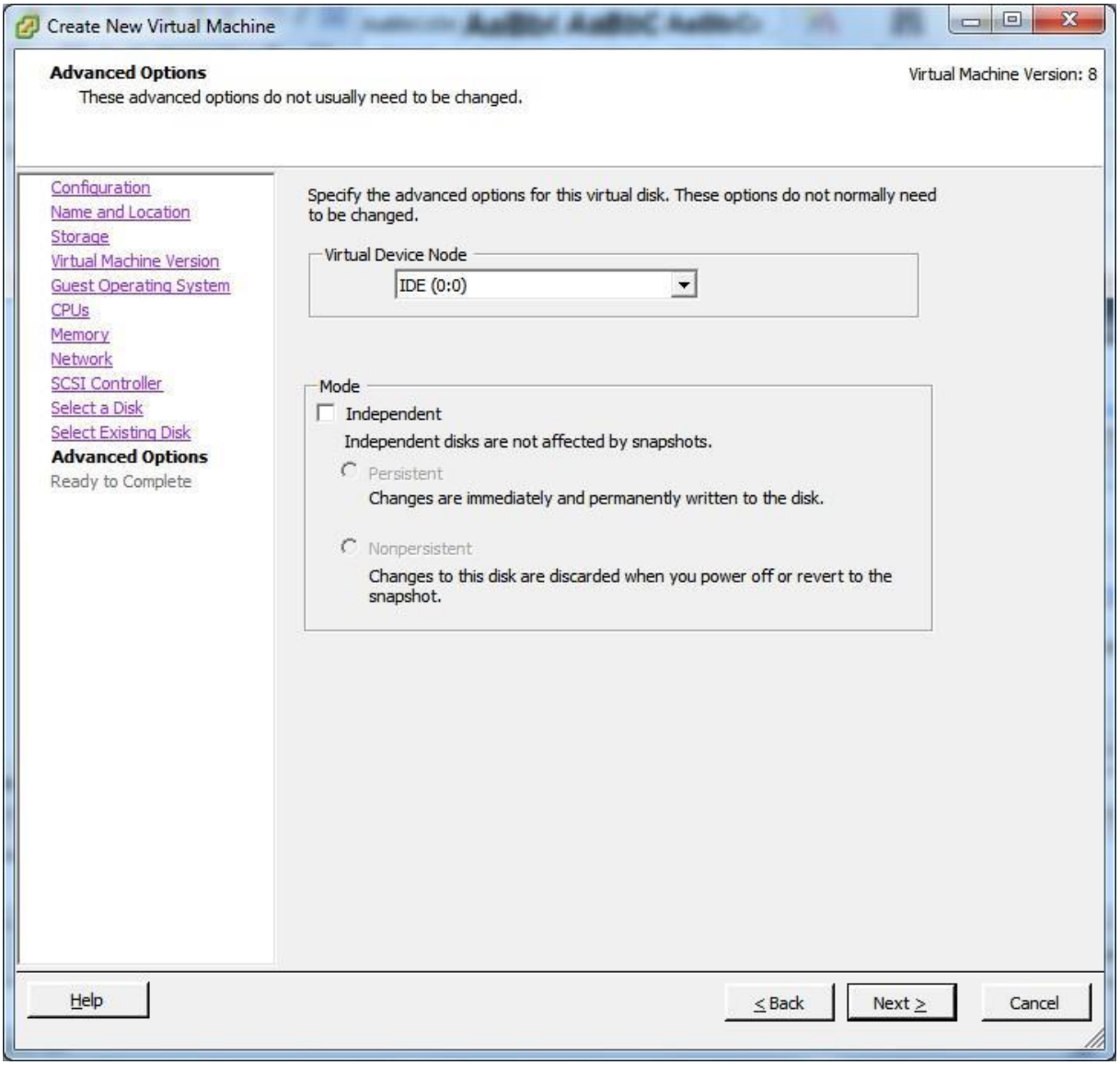


Click on browse and select data store1

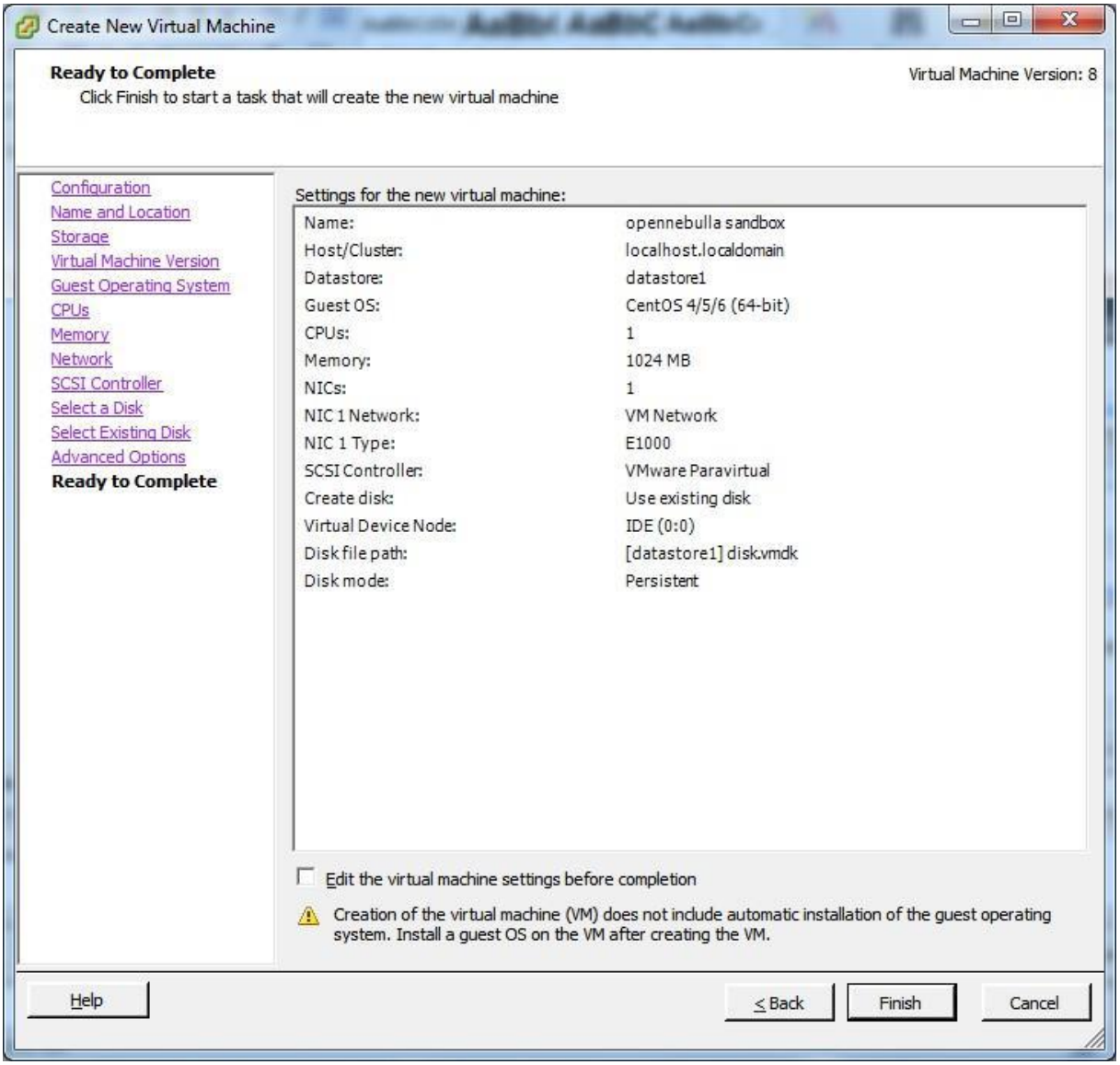


Double click on datastore1 --
You will get disk.vmdk file & click on OK

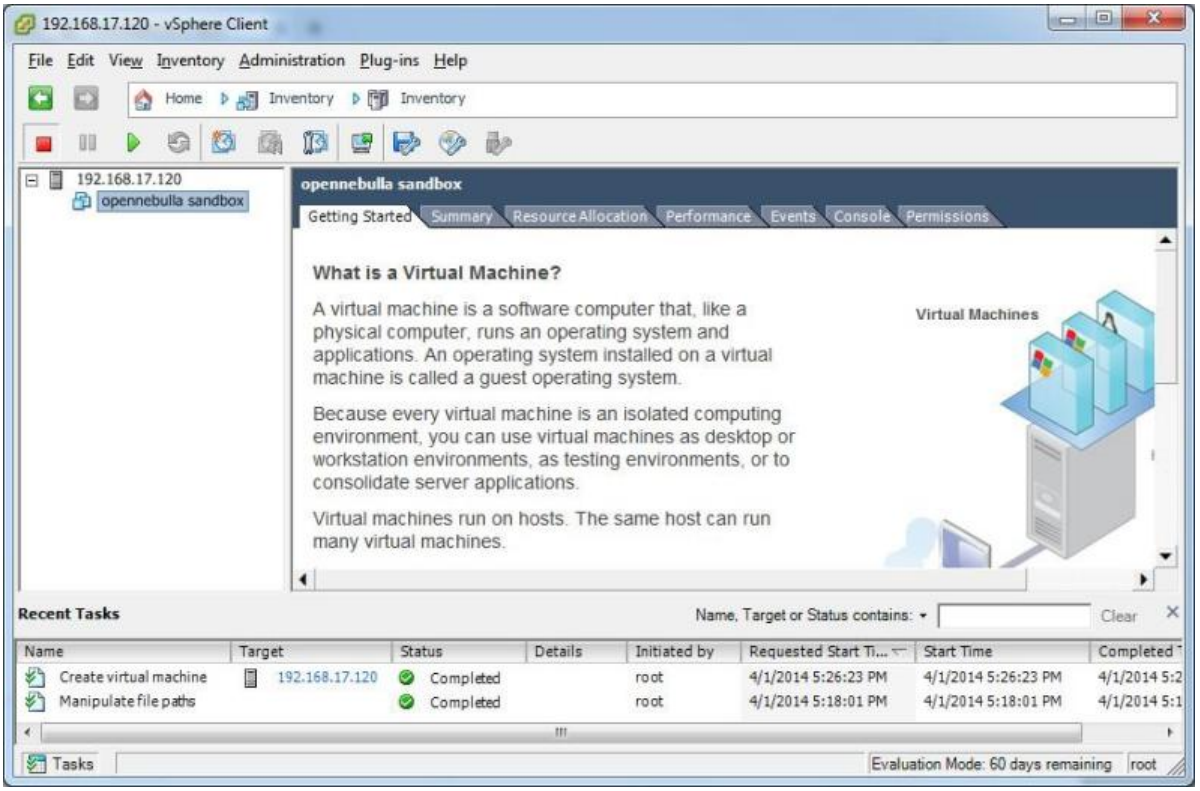

Create New Virtual Machine
Select Existing Disk
Which existing disk do you want to use as this virtual disk?
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Select Existing Disk
Advanced Options
Ready to Complete
Disk File Path
[datastore1] disk.vmdk
Browse...
Help
< Back
Next >
Cancel



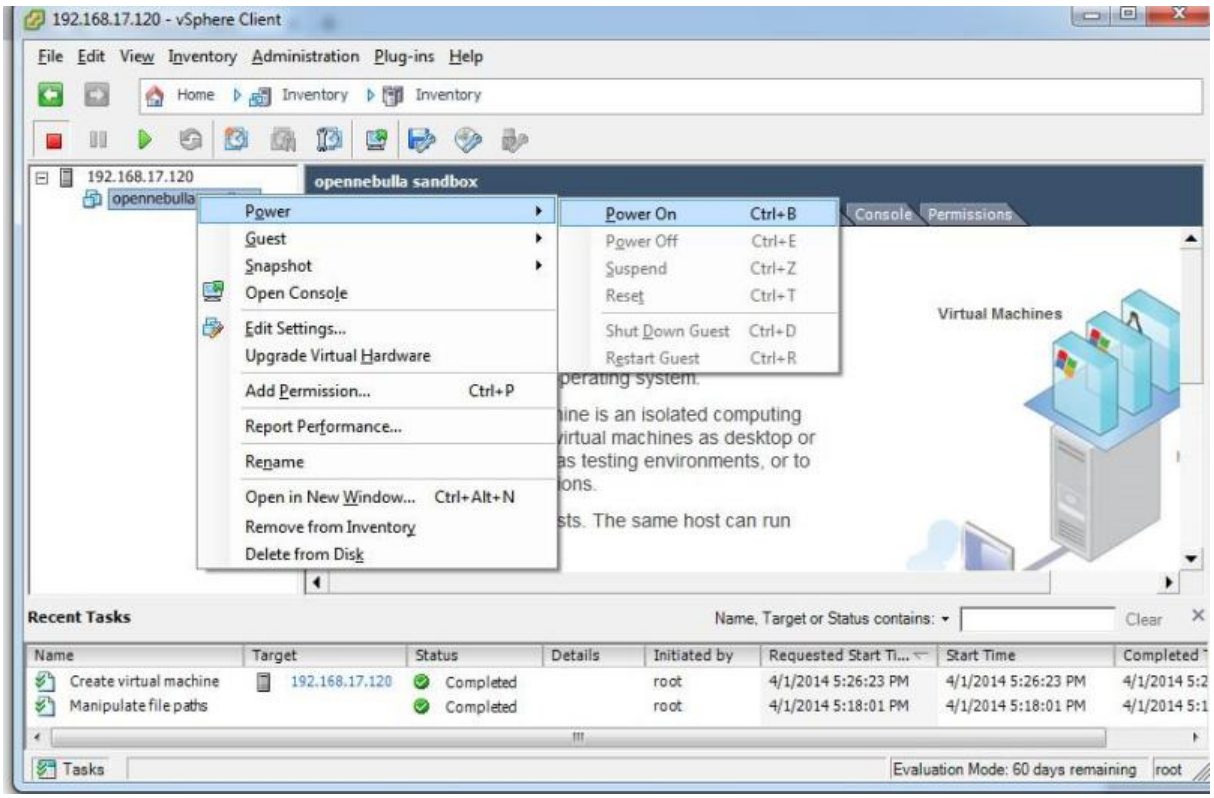
Click on next



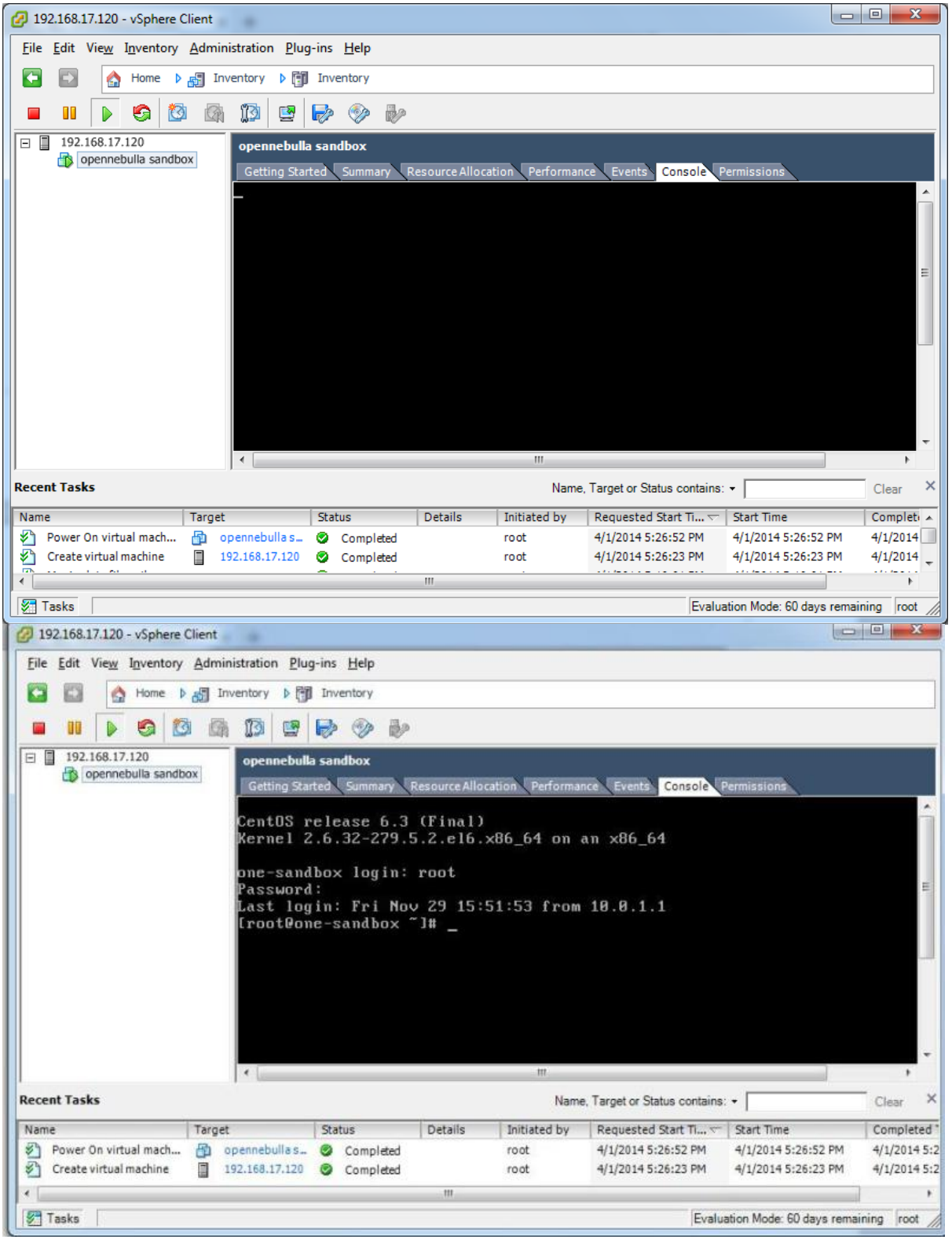
Click on finish



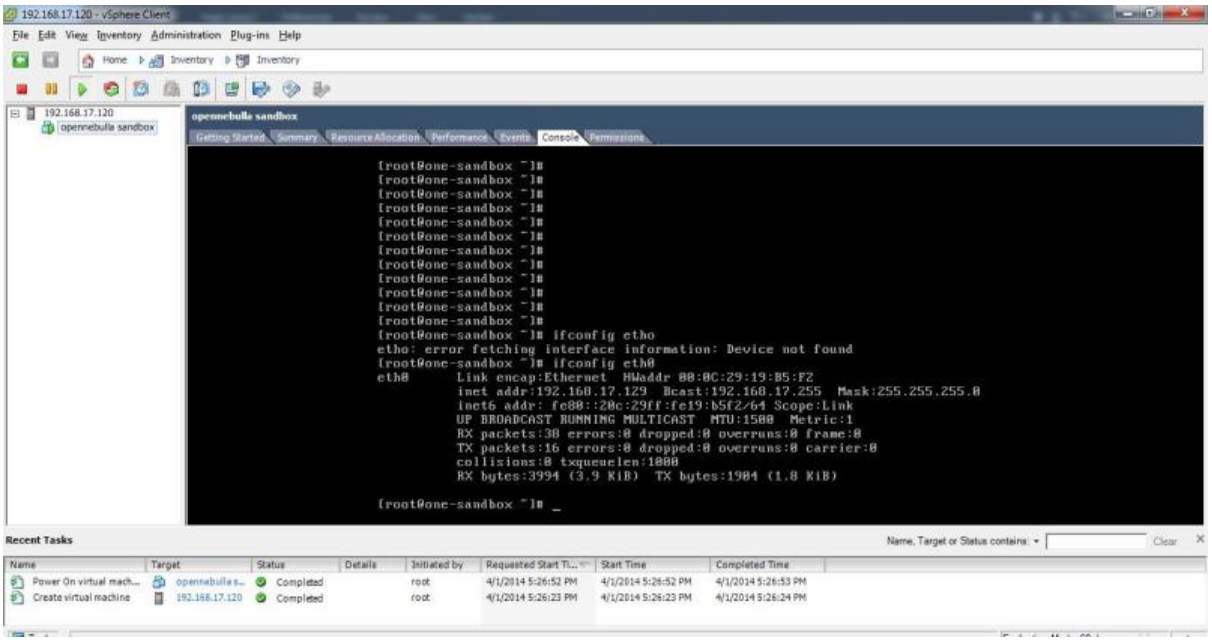
Power on the virtual machine



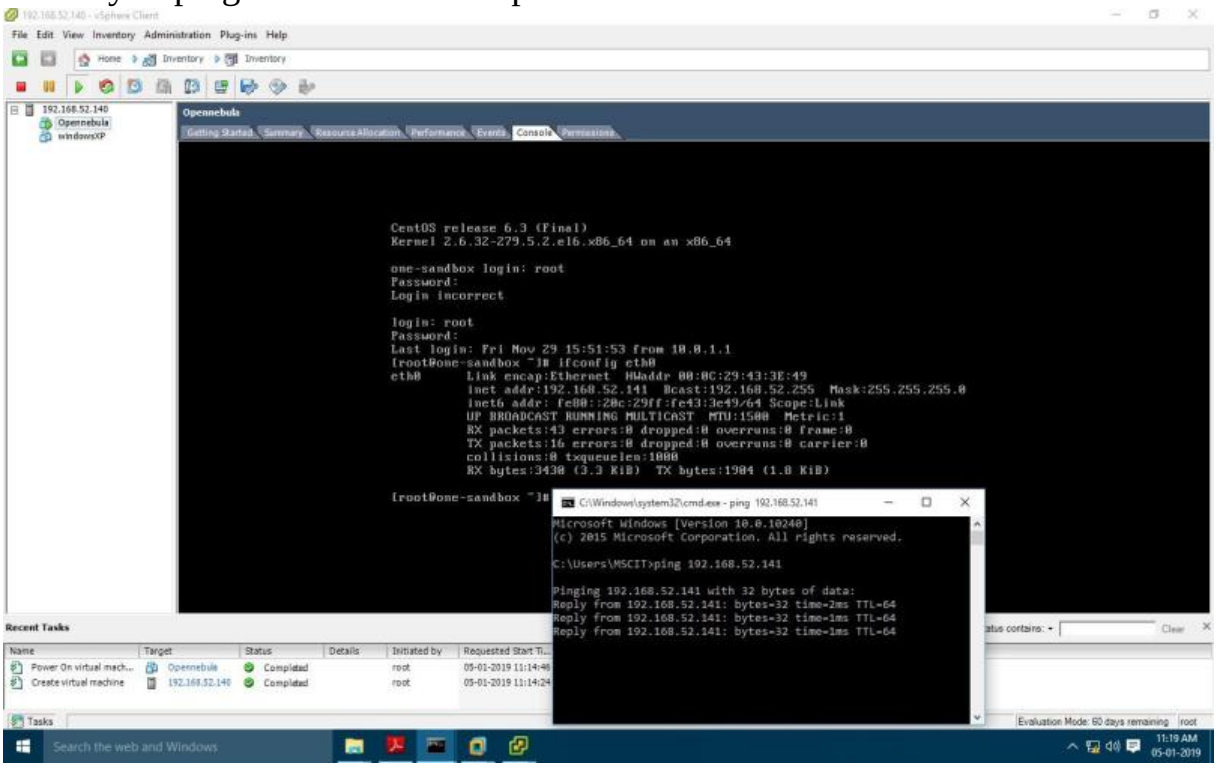
Click on console tab



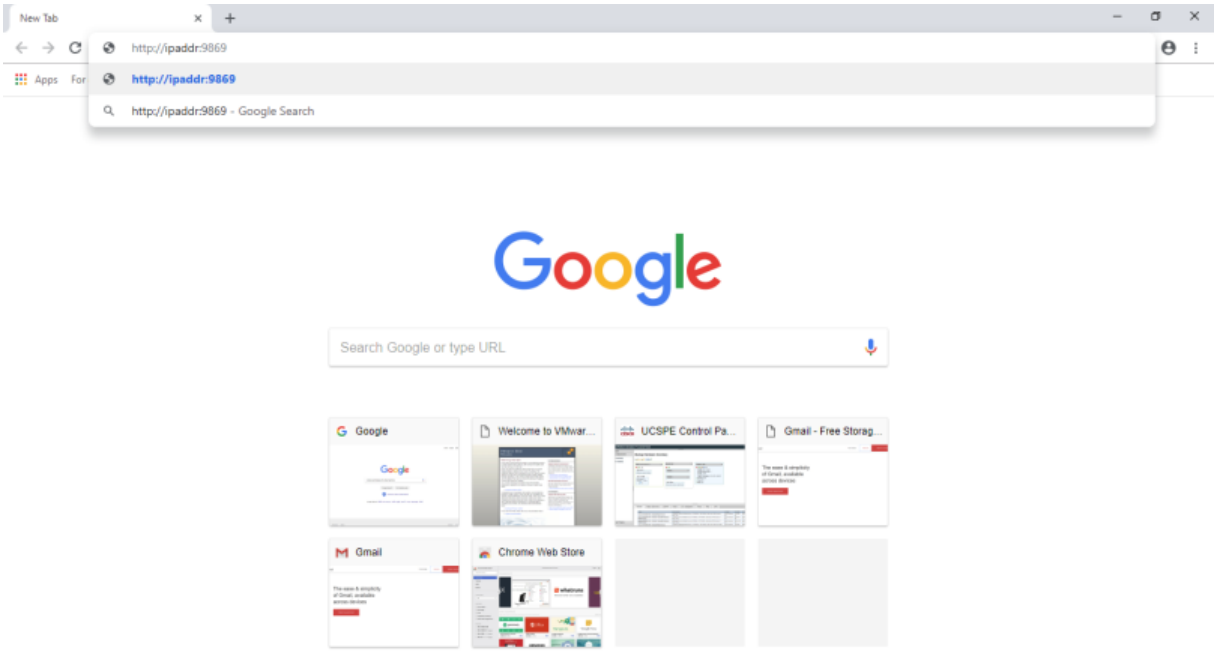
Type ifconfig eth0 command to check ip address of linux centos machine

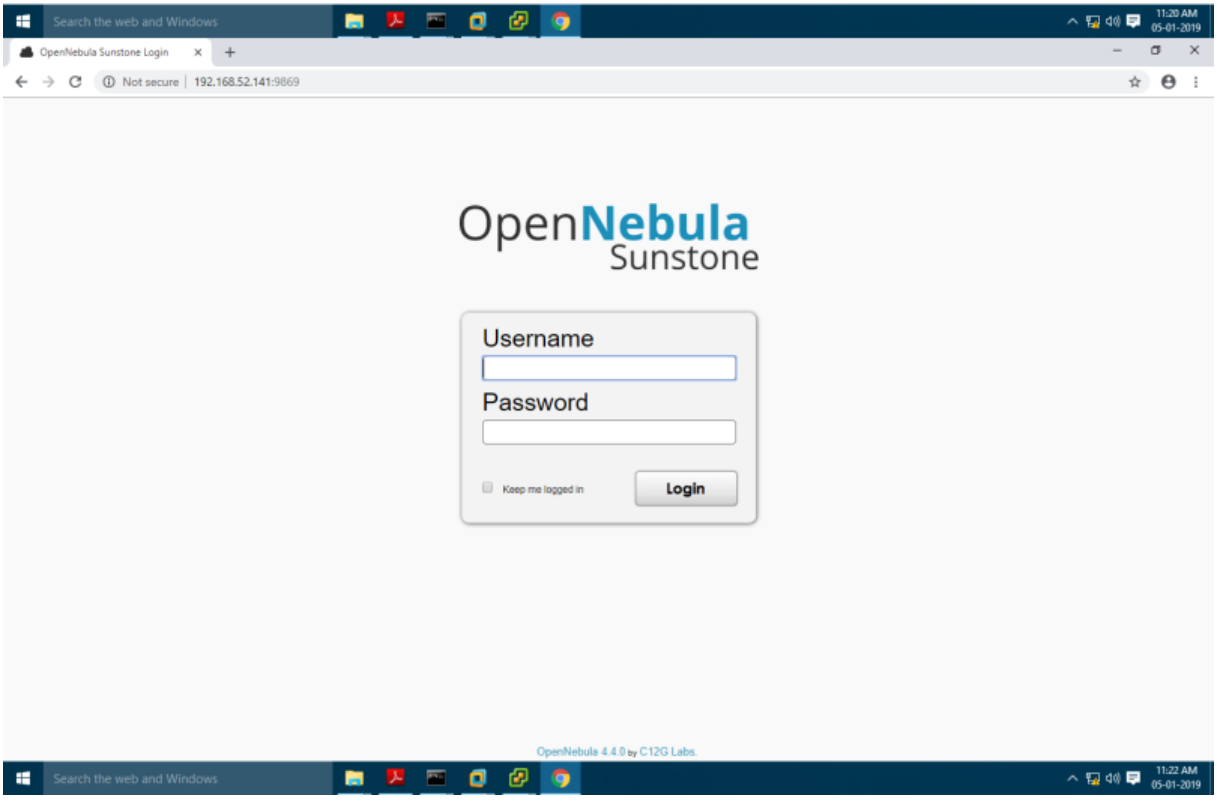


Since ip address of openebulla is 192.168.17.129
Now try to ping 192.168.17.129 openebulla on host OS

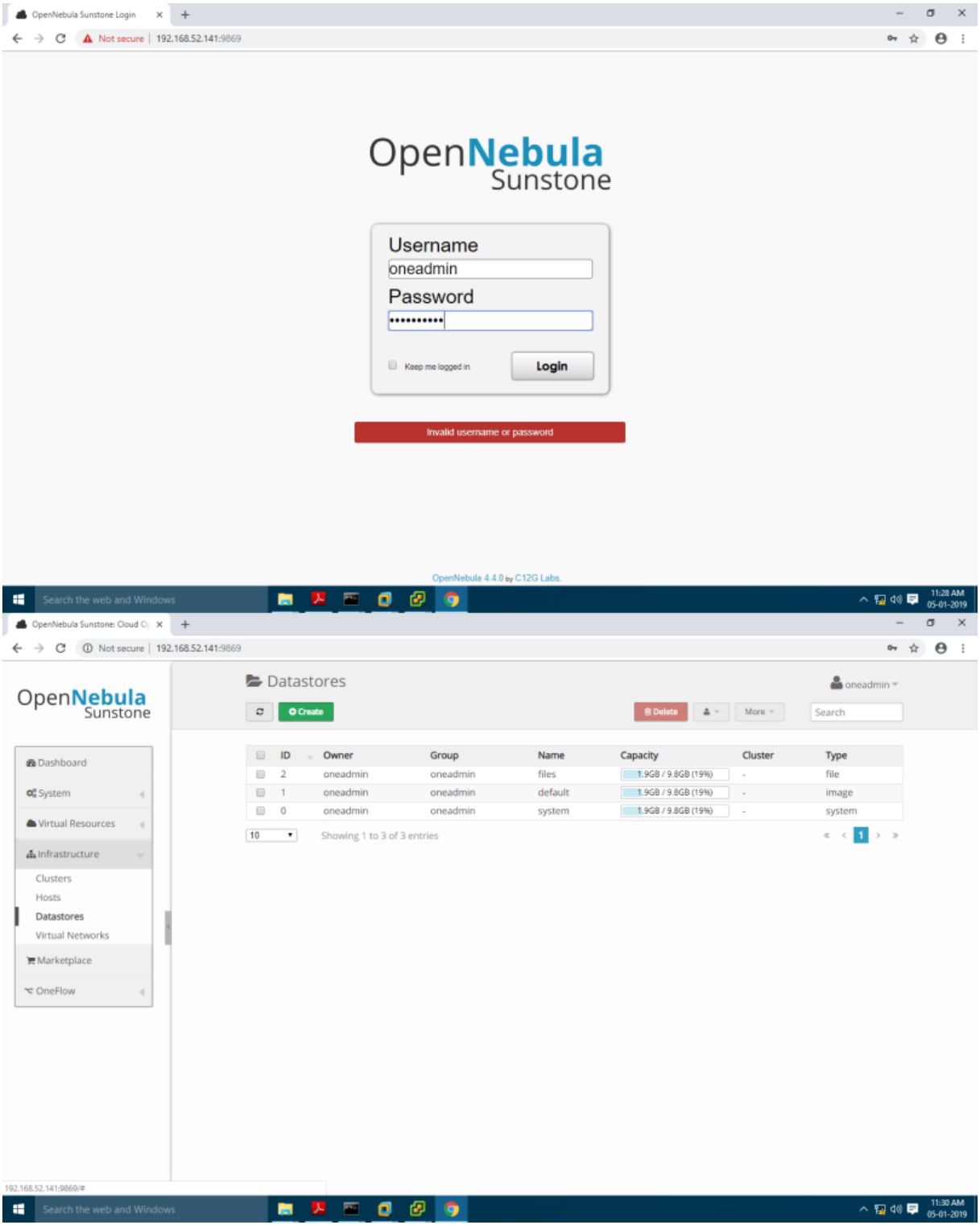


Go to Browser copy the http path and paste it.

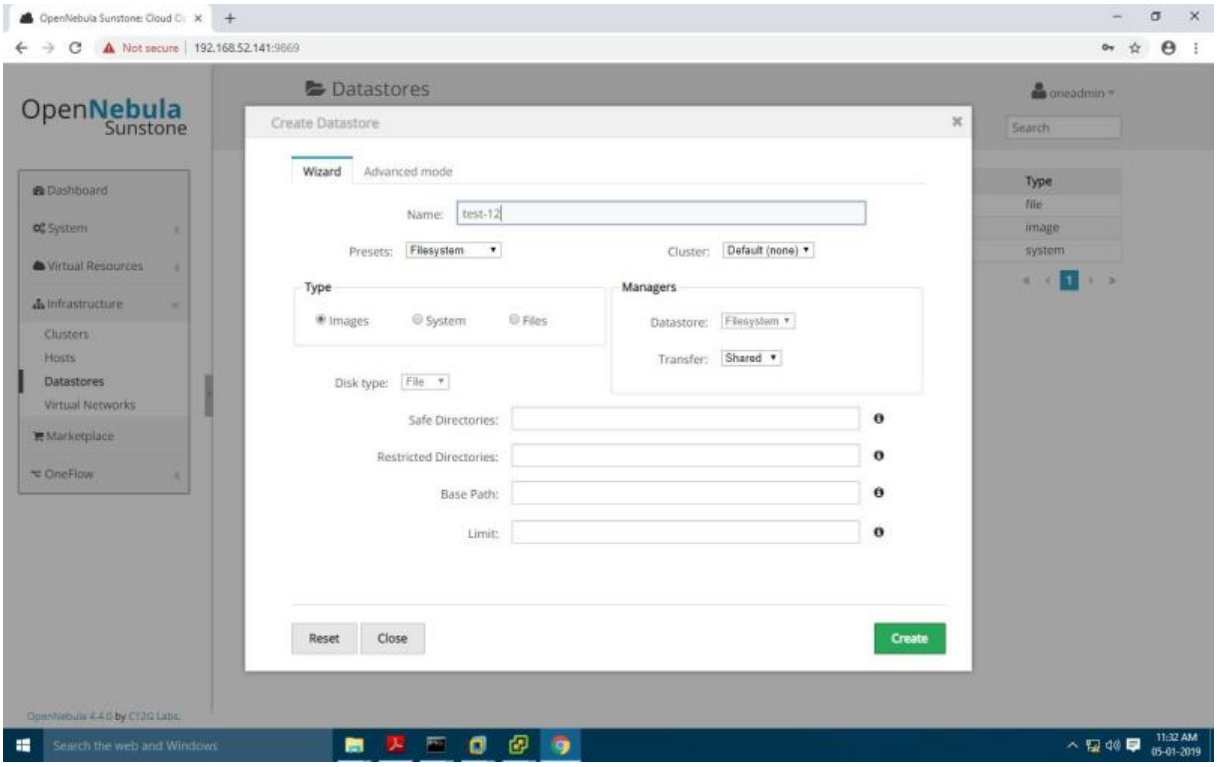




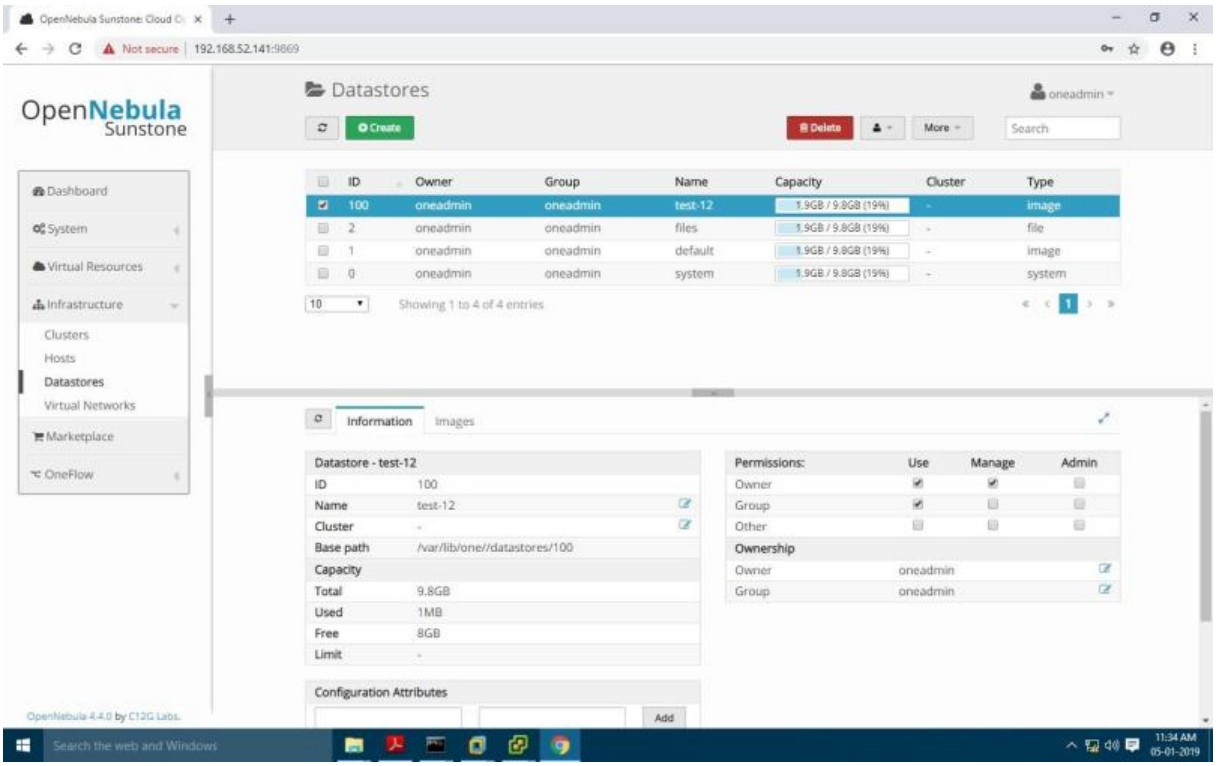
type username : oneadmin
password : Opennebula



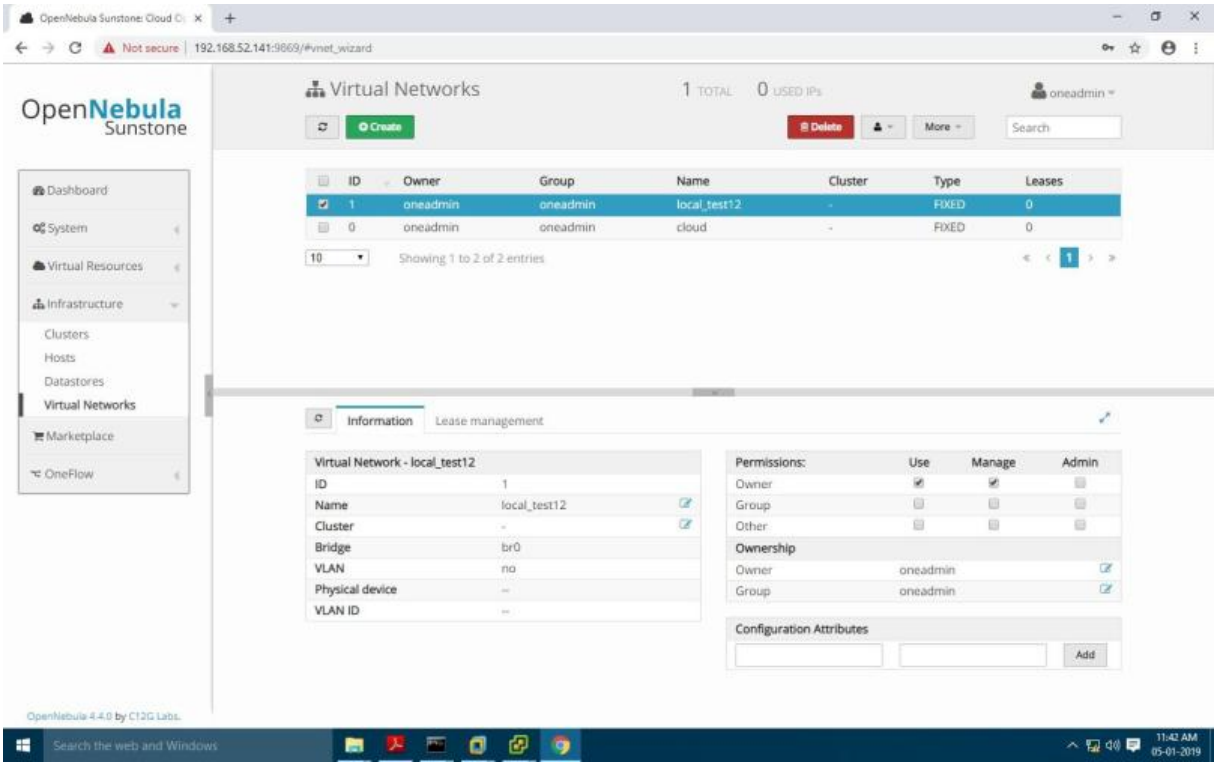
click on "create"
type name test-12 and click on "create"



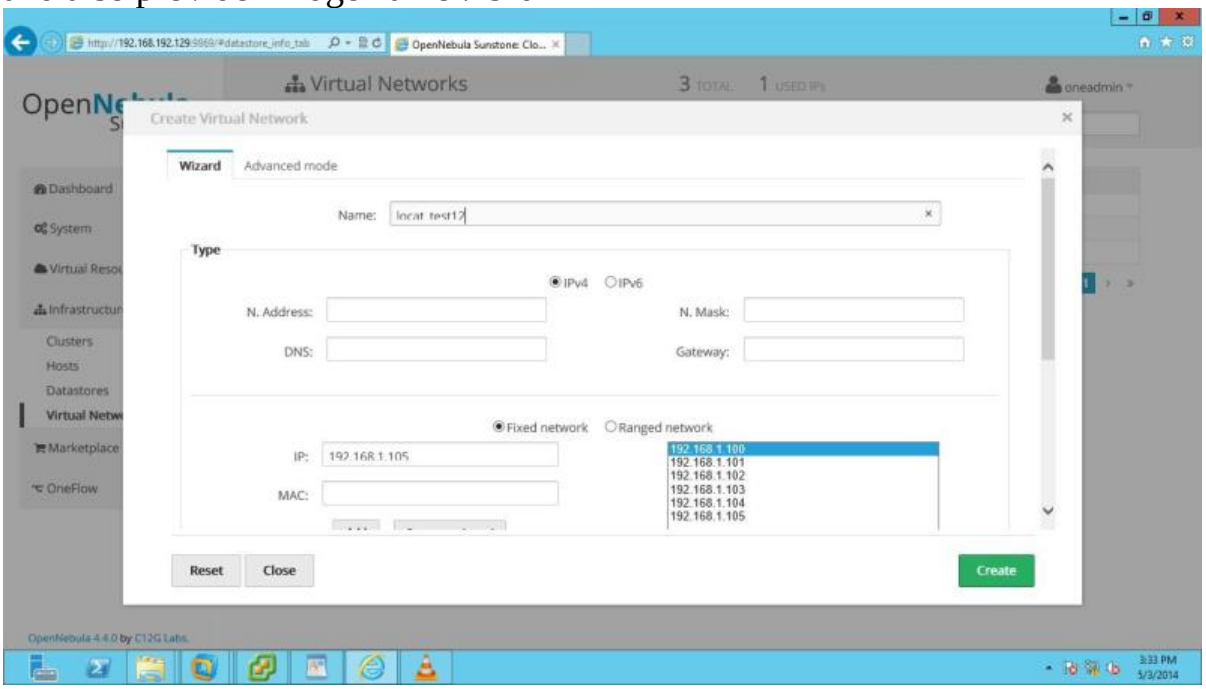
DATASTORE is created

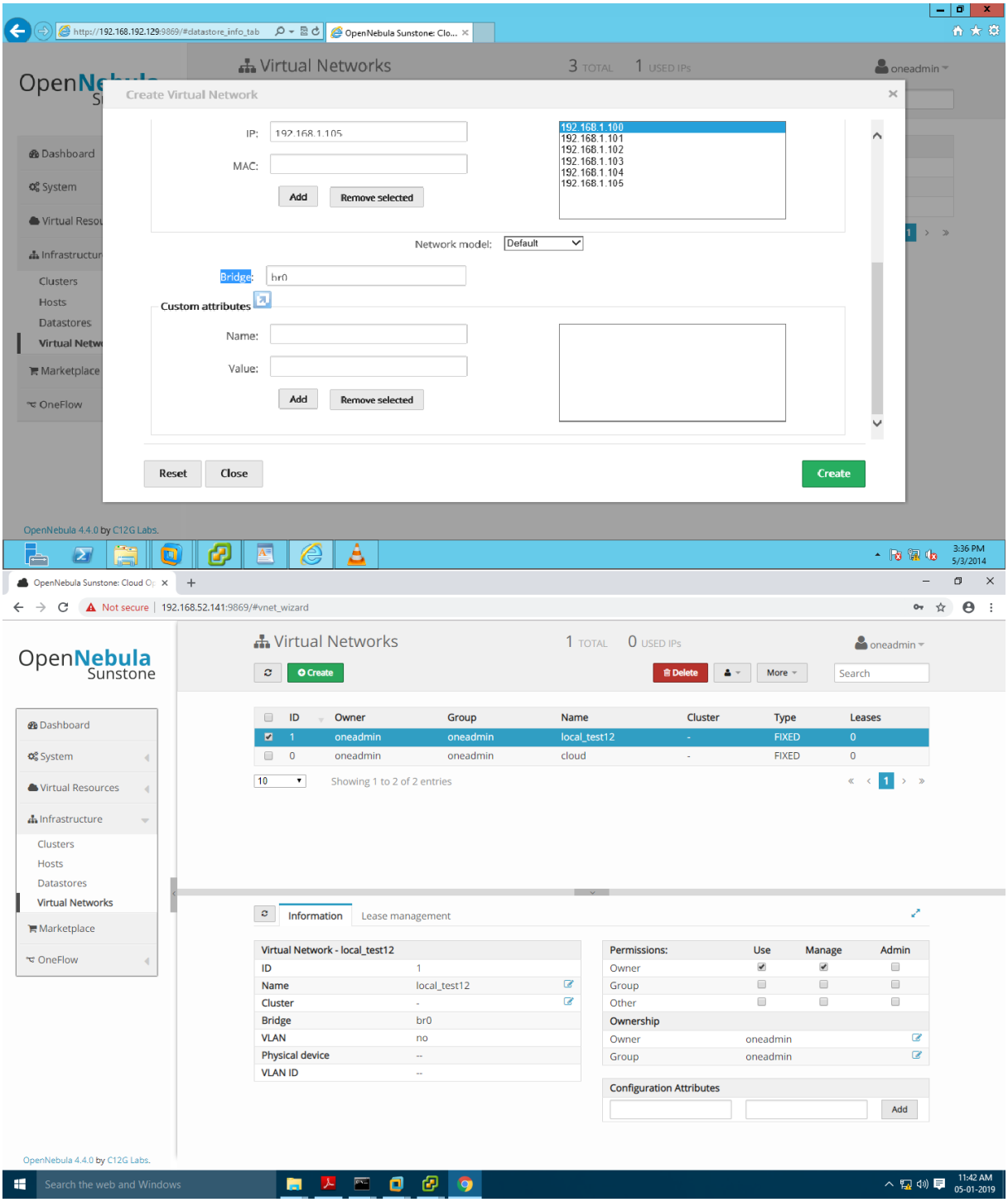


now we will create "Virtual Network"

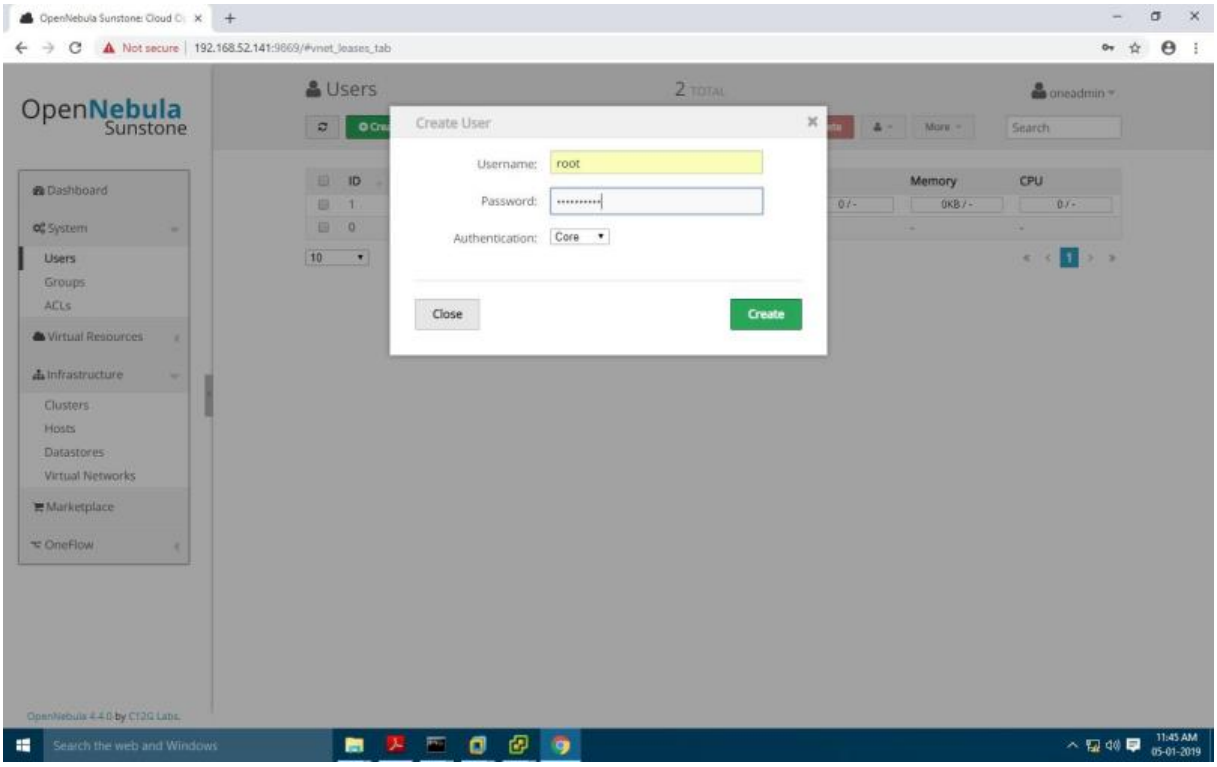


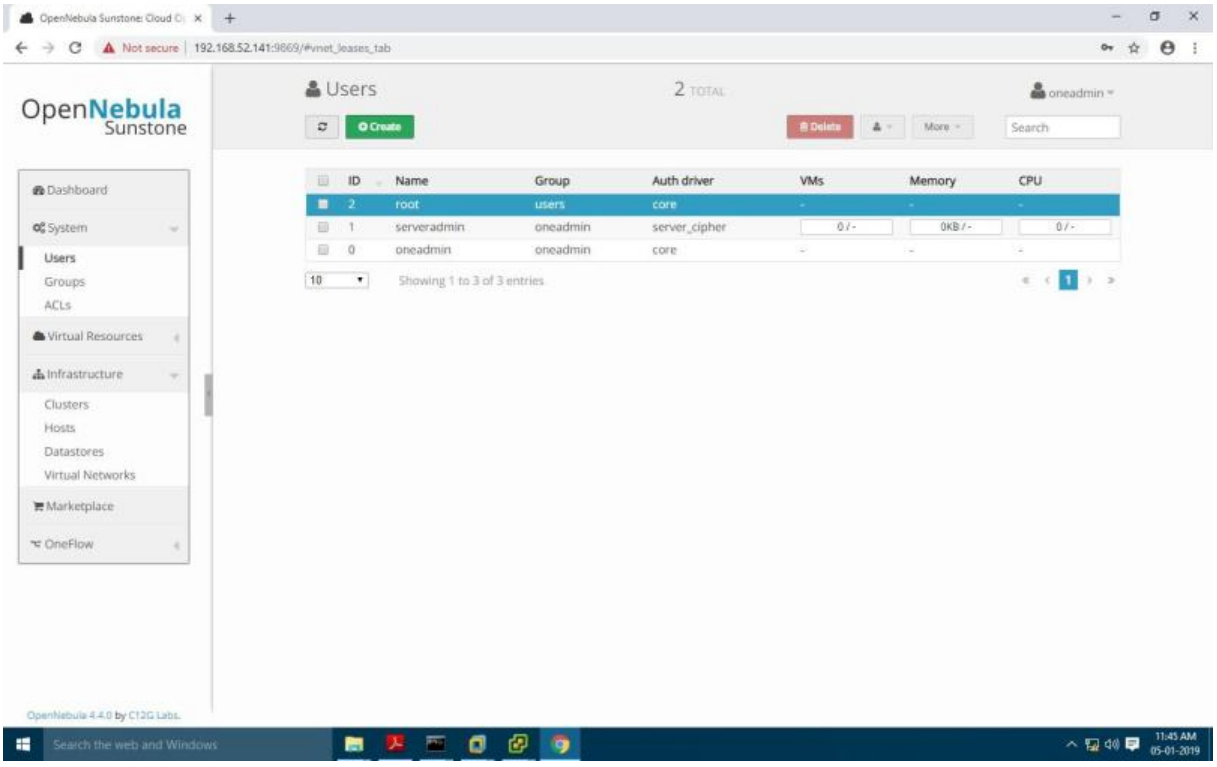
click on "Create"
provide name as "local_test12"
click on Fixed Network
provied ip address in range "192.168.1.100" to "192.168.1.106"
and also provide Bridge name :"br0"



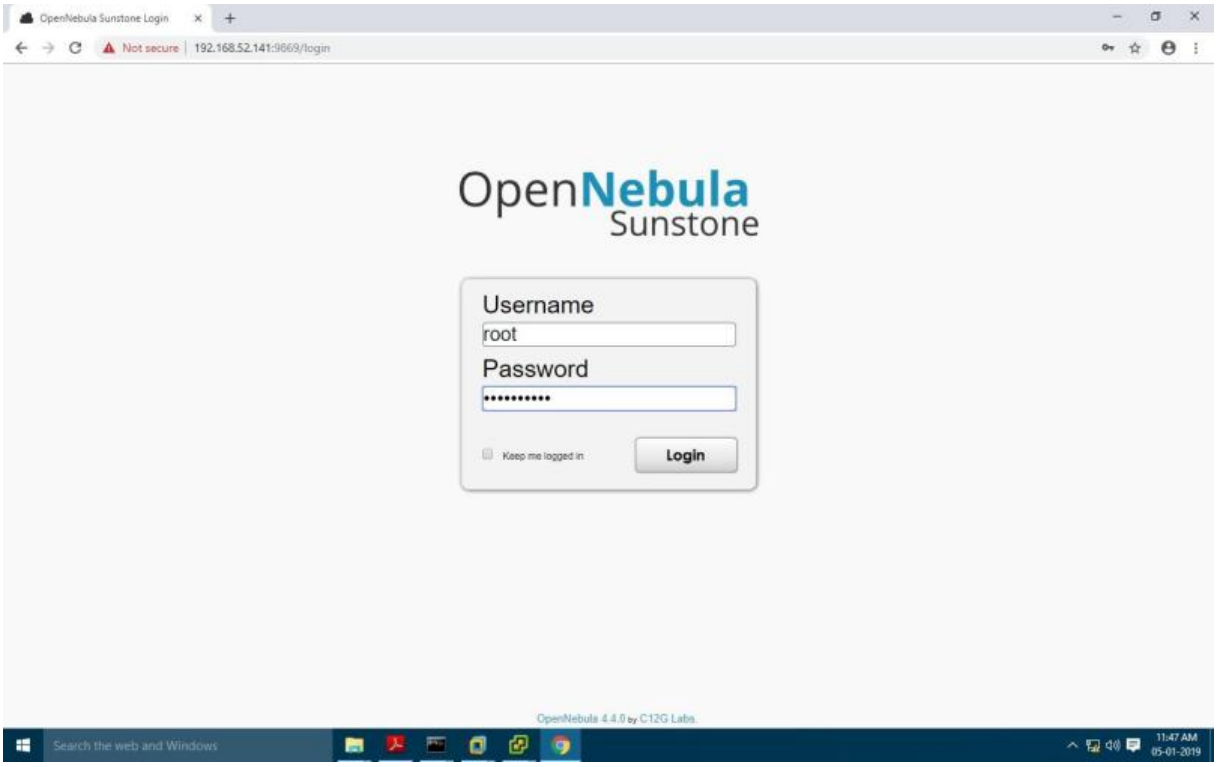


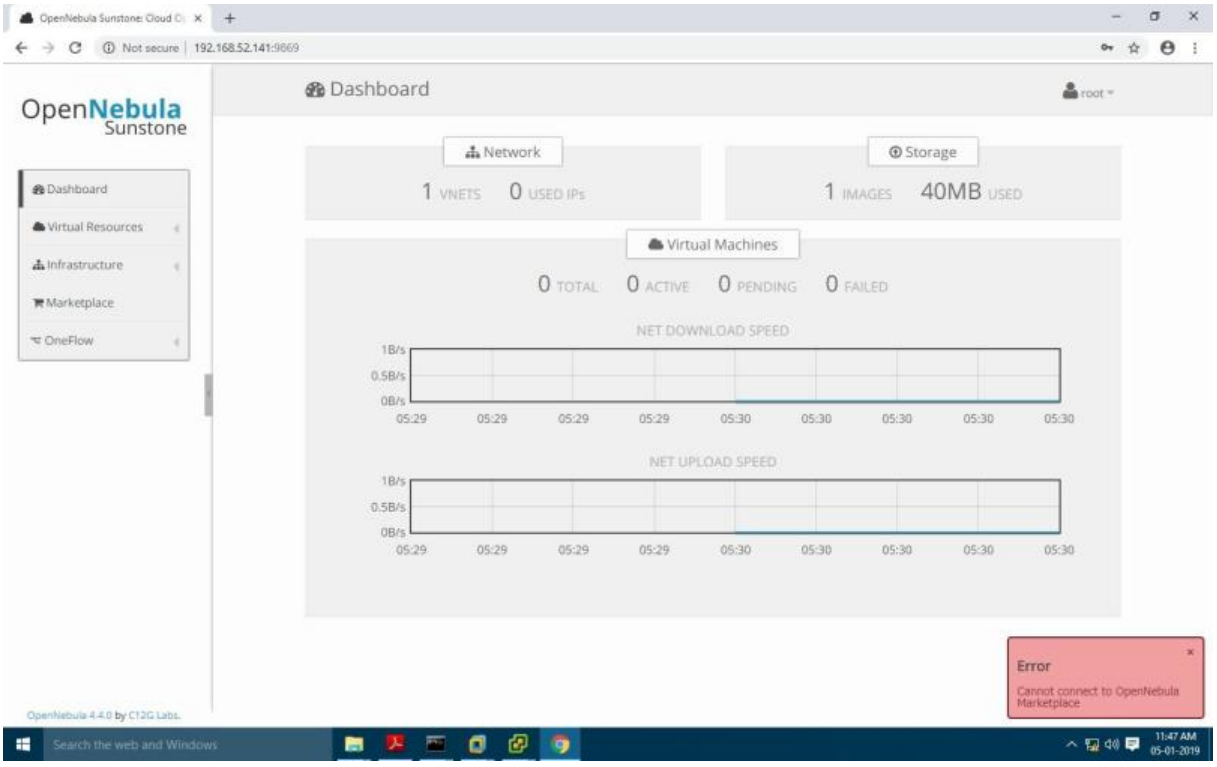
create new user
name :root
password : opnenebula



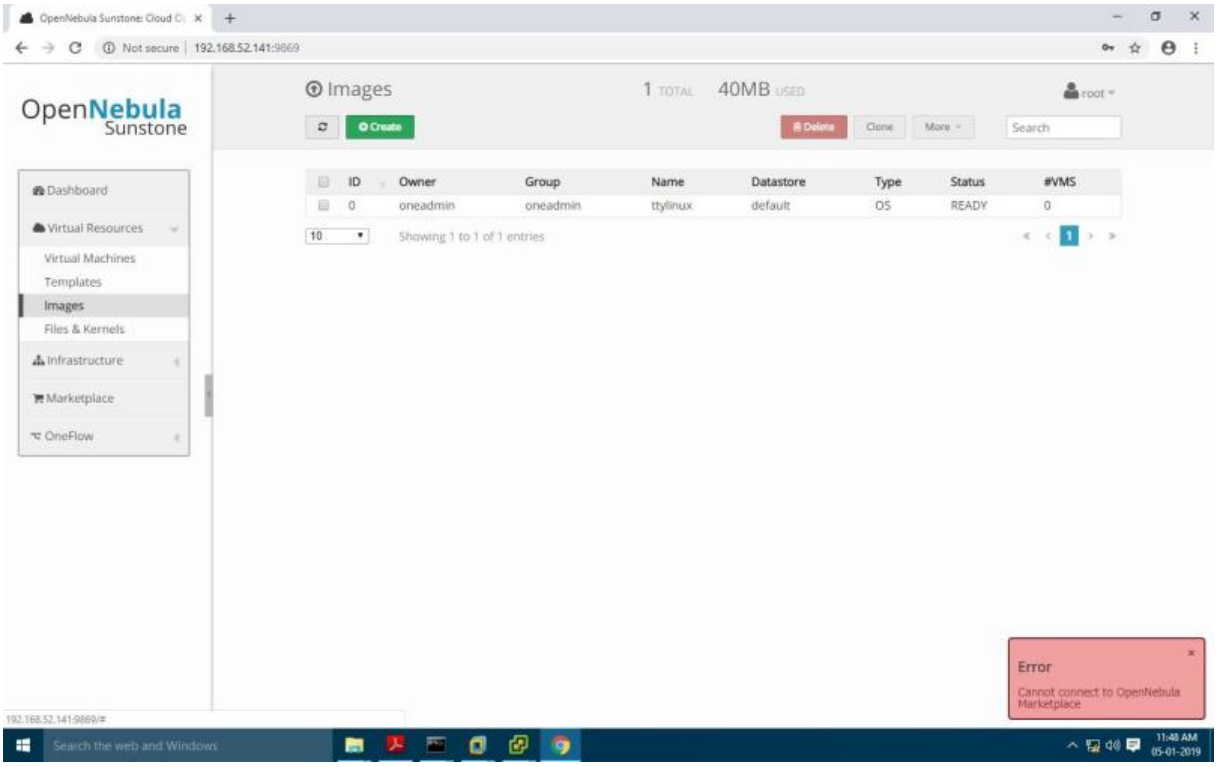


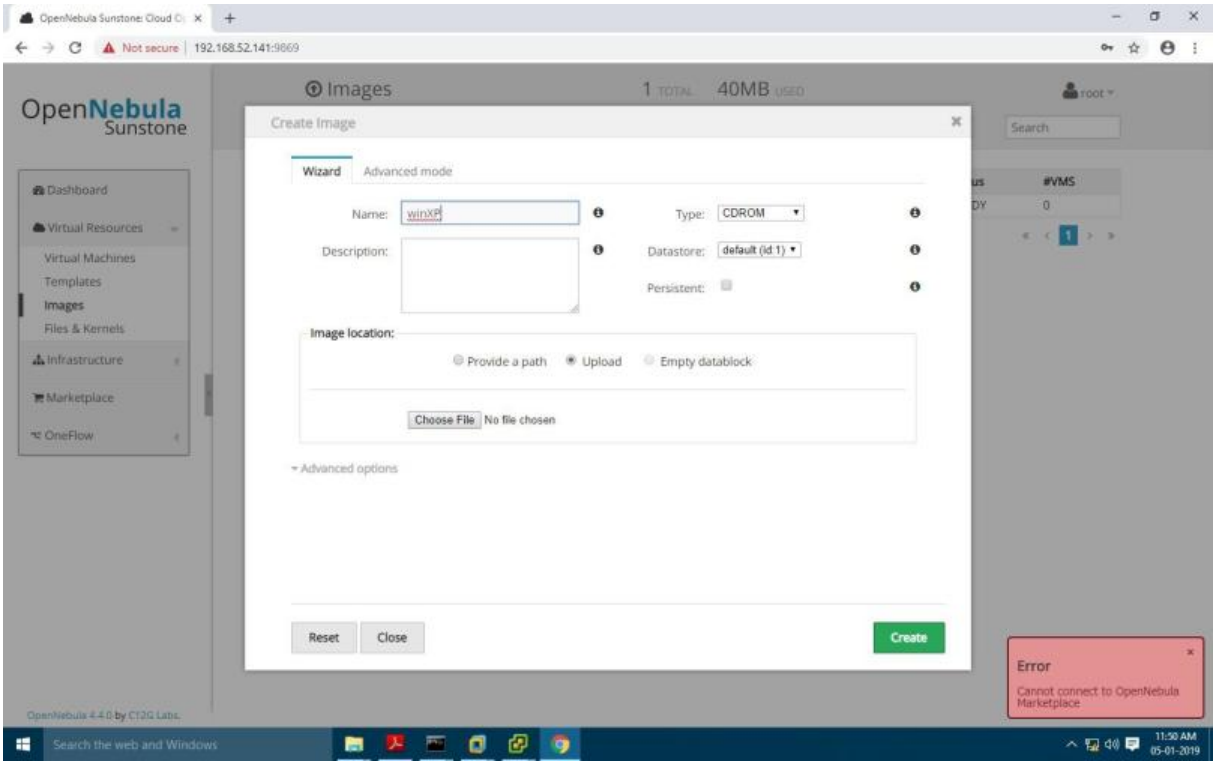
now login again as
username : root
password : Opennebula



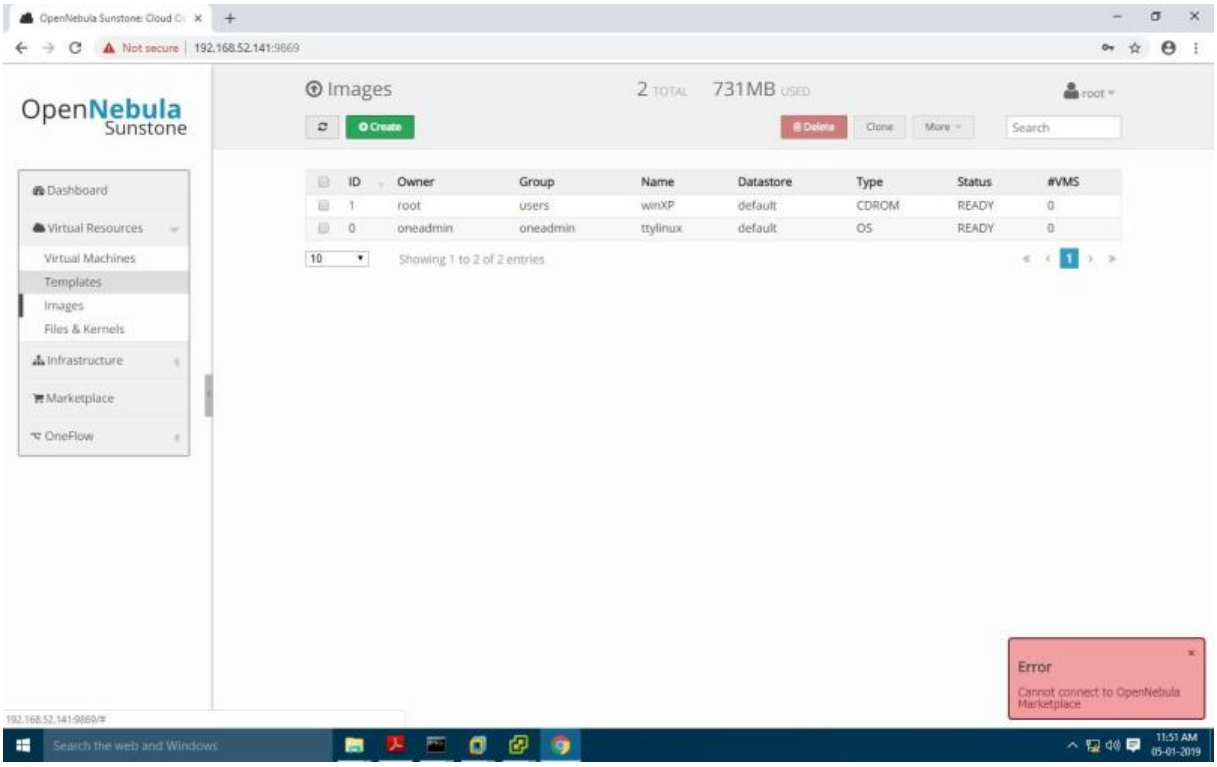


click on "Virtual Resources"
and images

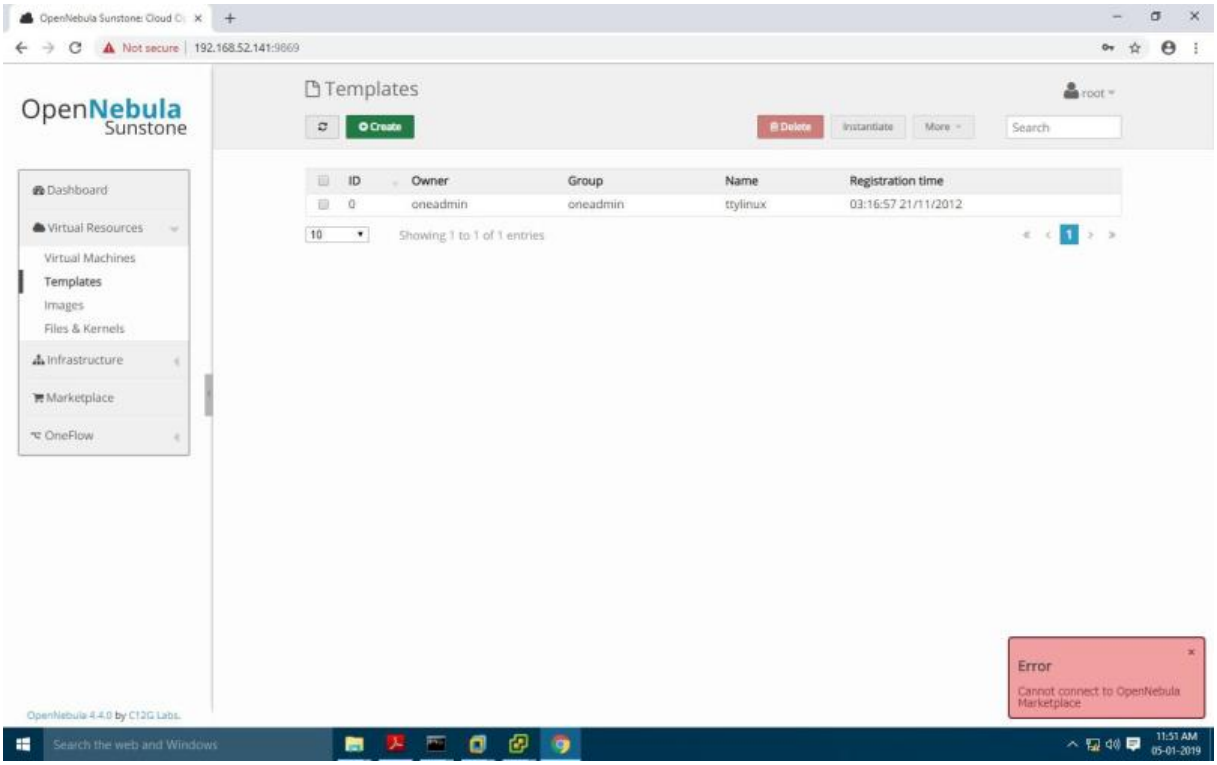




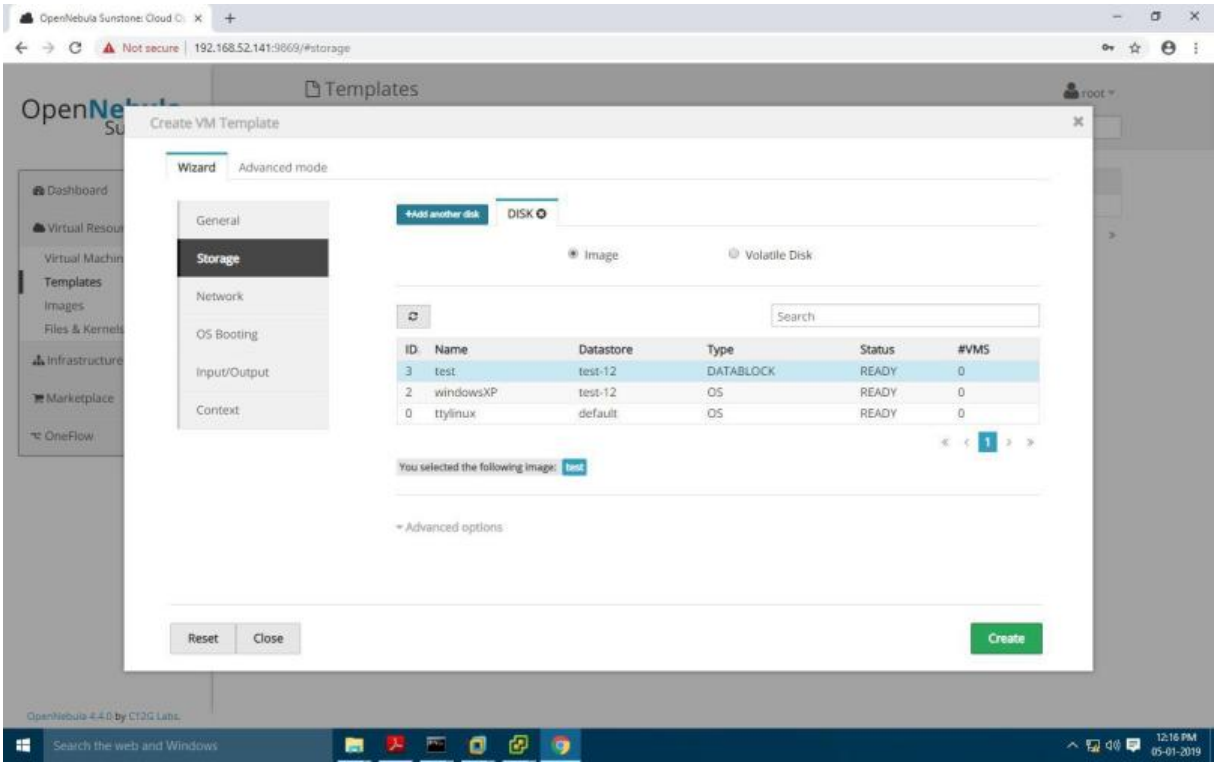
now register blank img



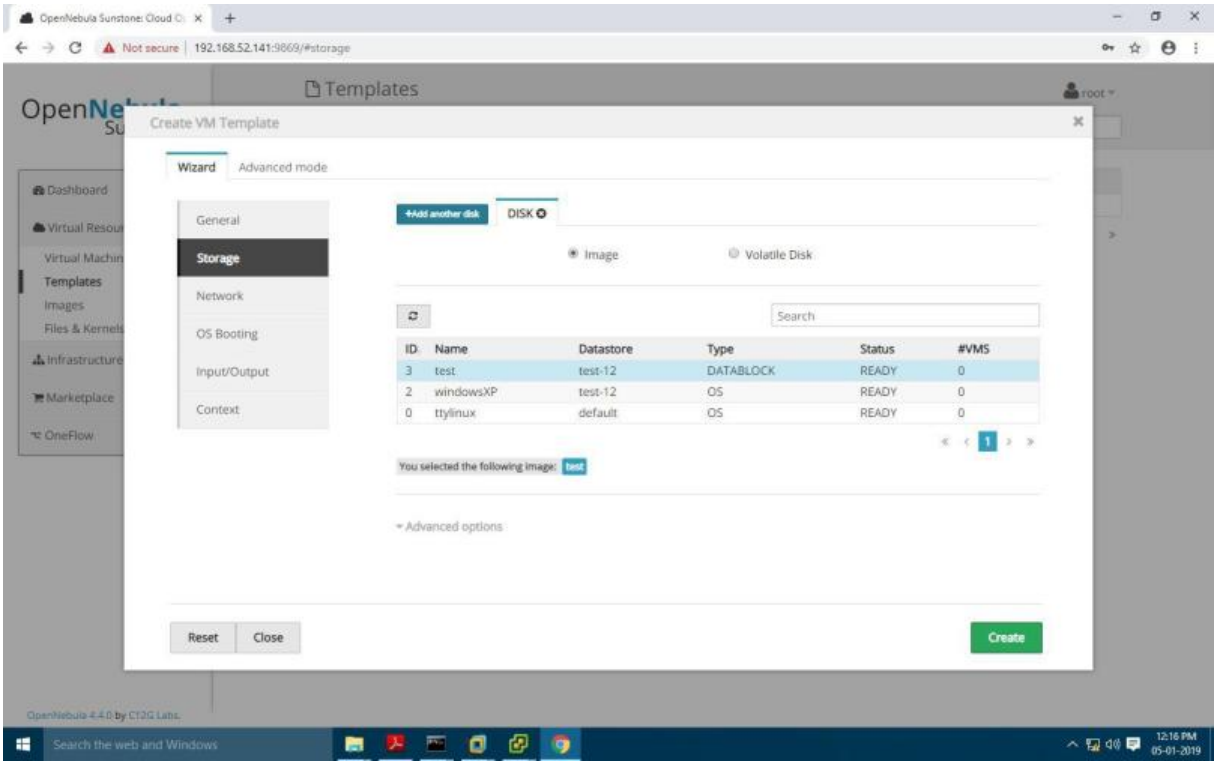
click on template



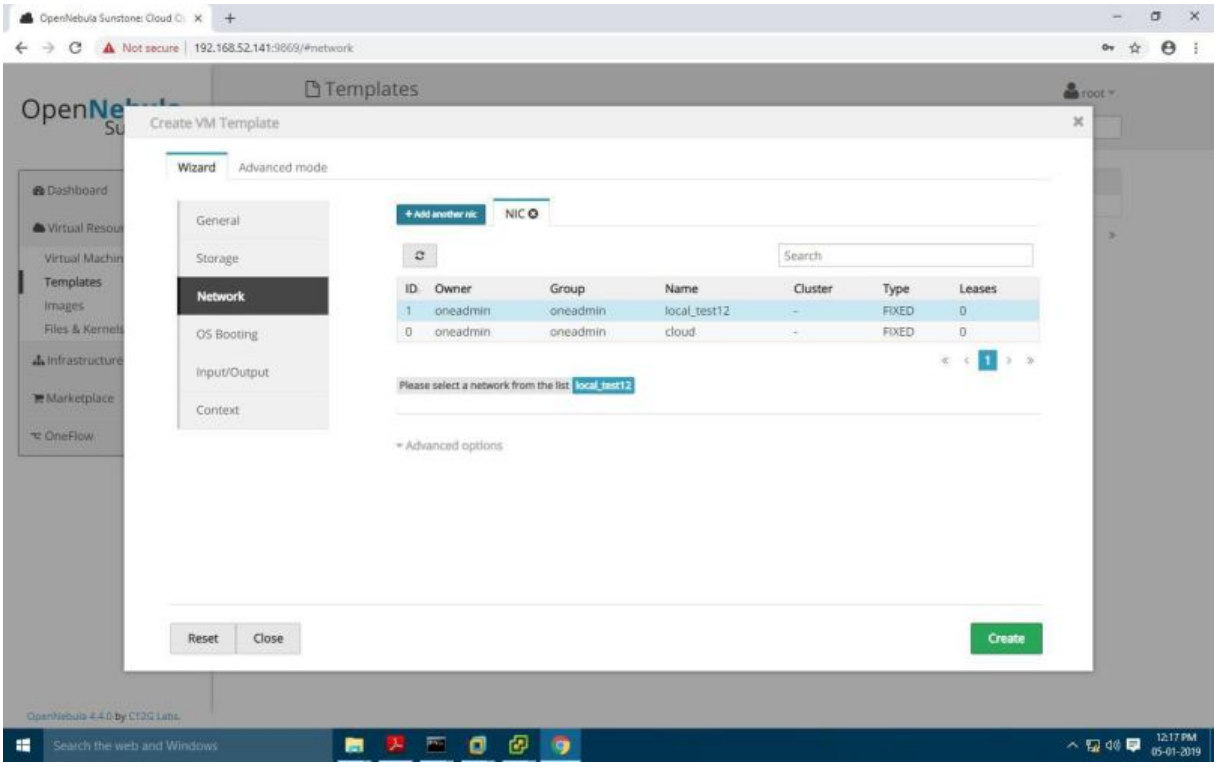
click on storage



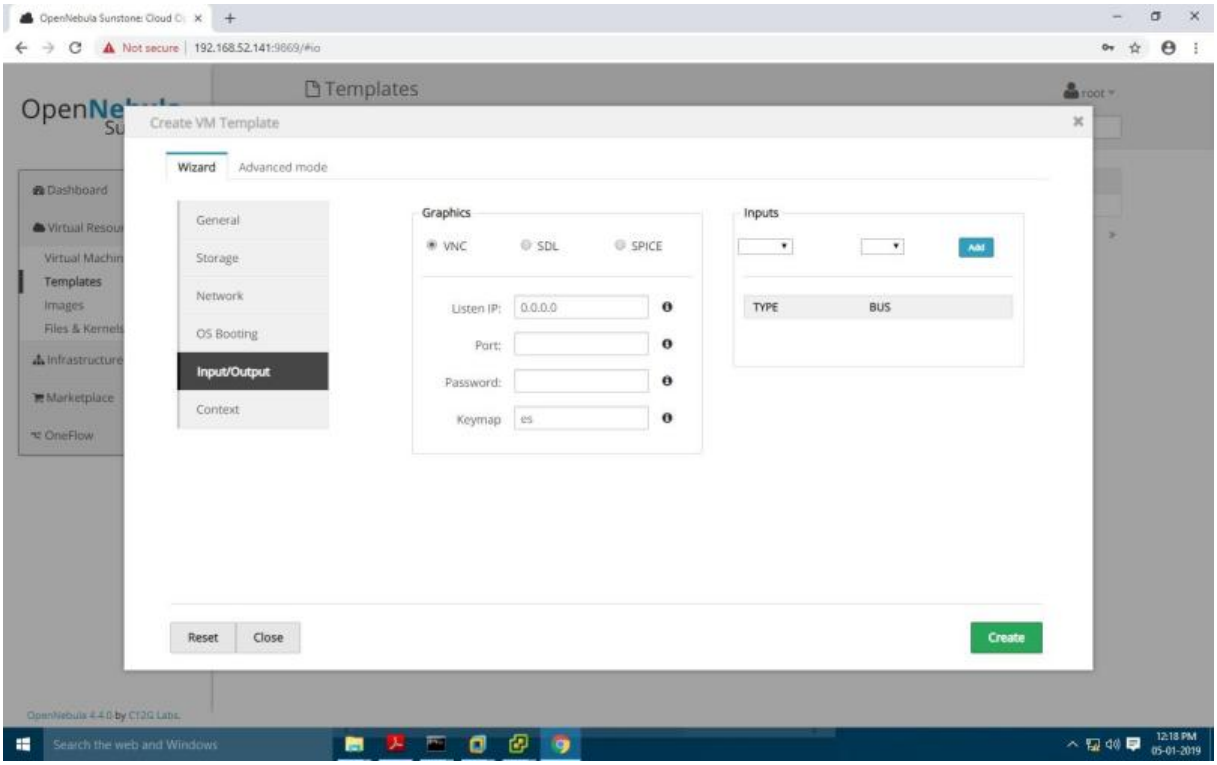
click on add another disk

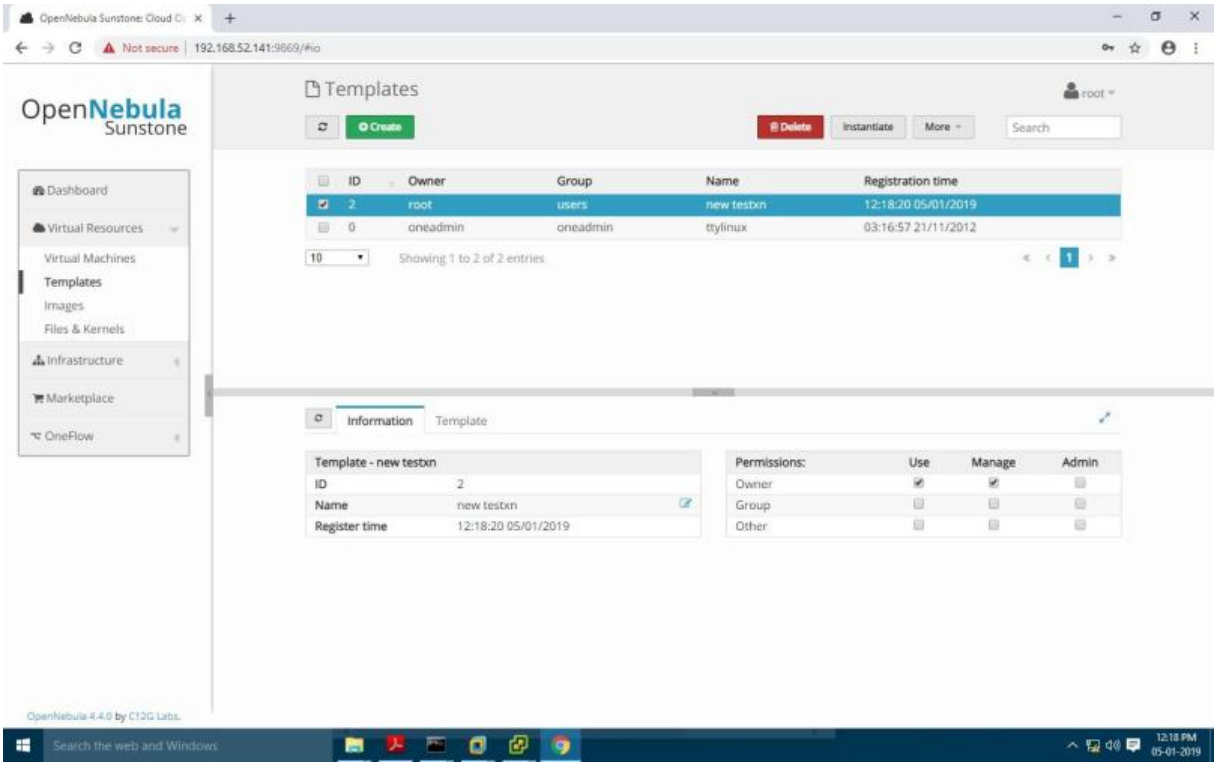


click on "Network" and select network we have created

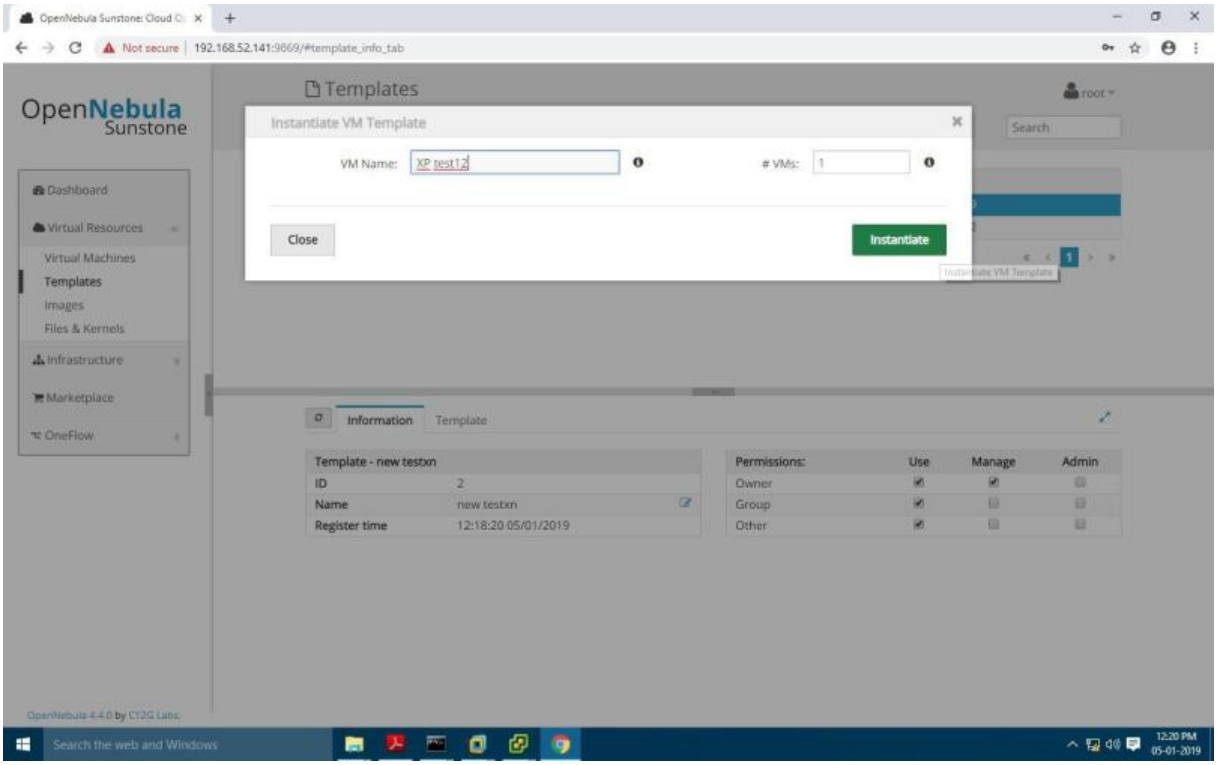


click on "INPUT/OUTPUT " SELECT "VNC"

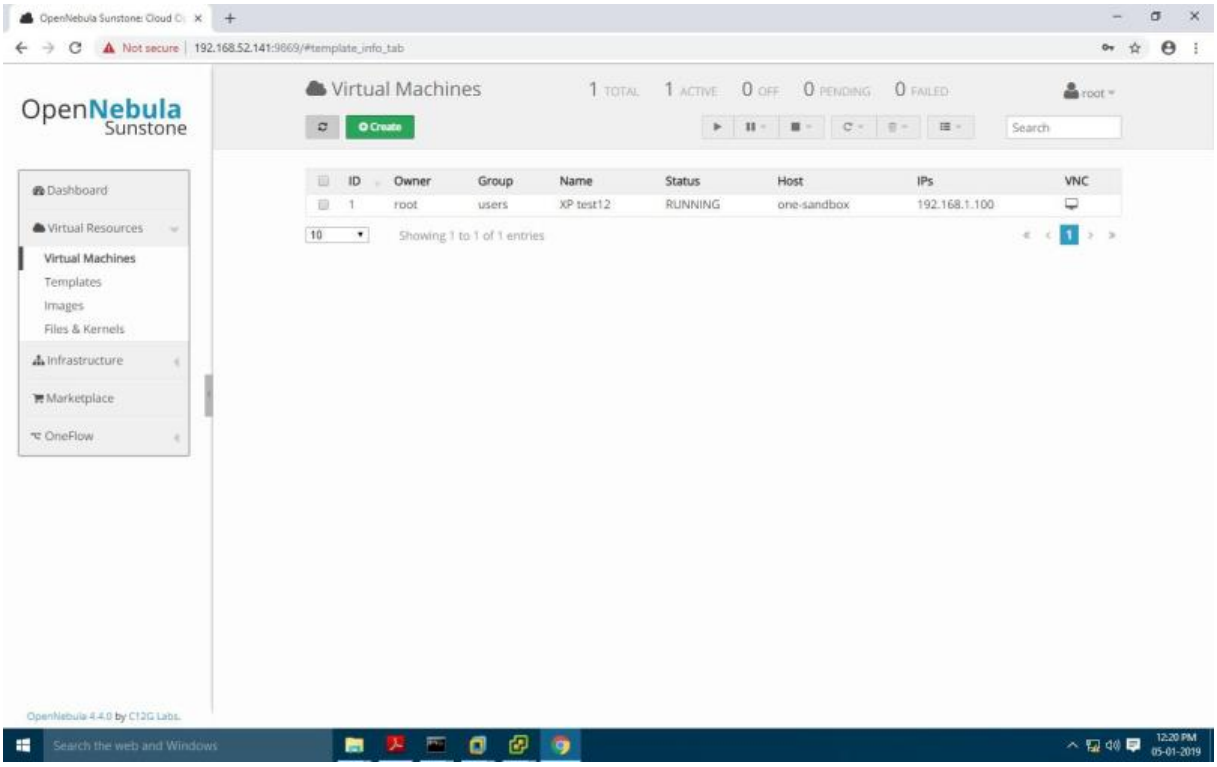




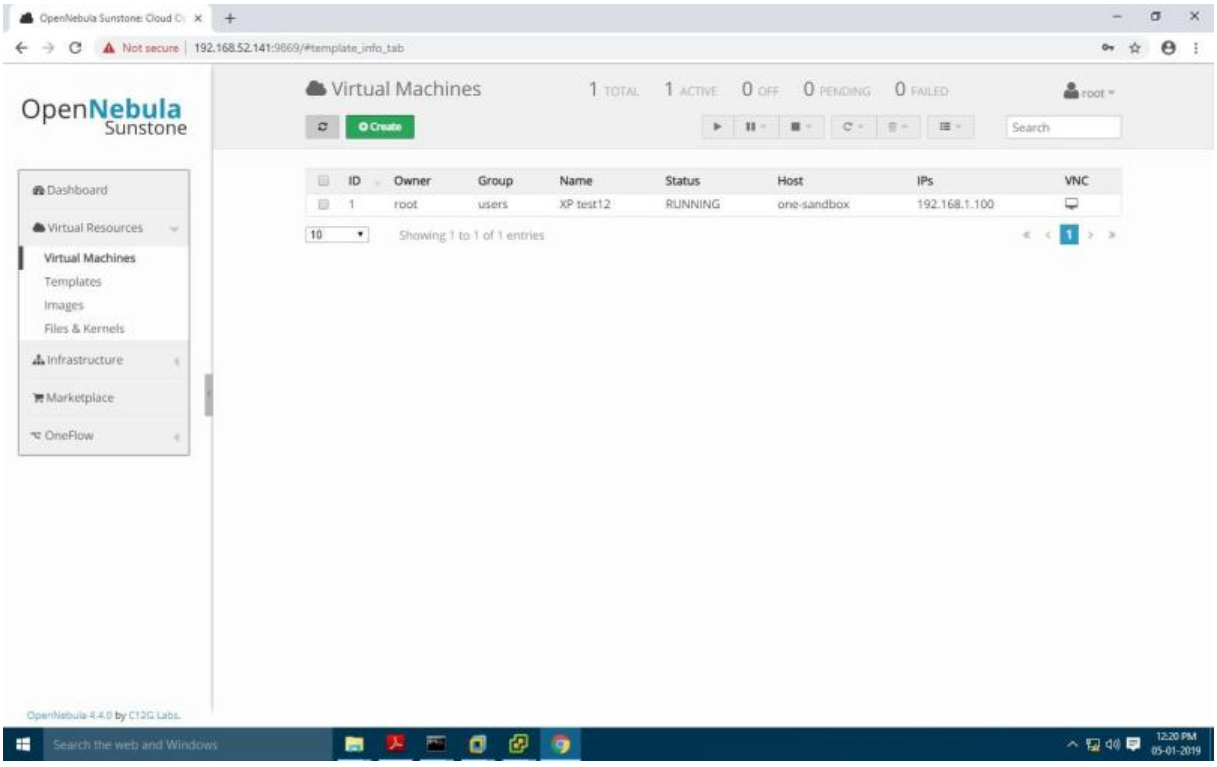
NOW click on INSTANTIATE

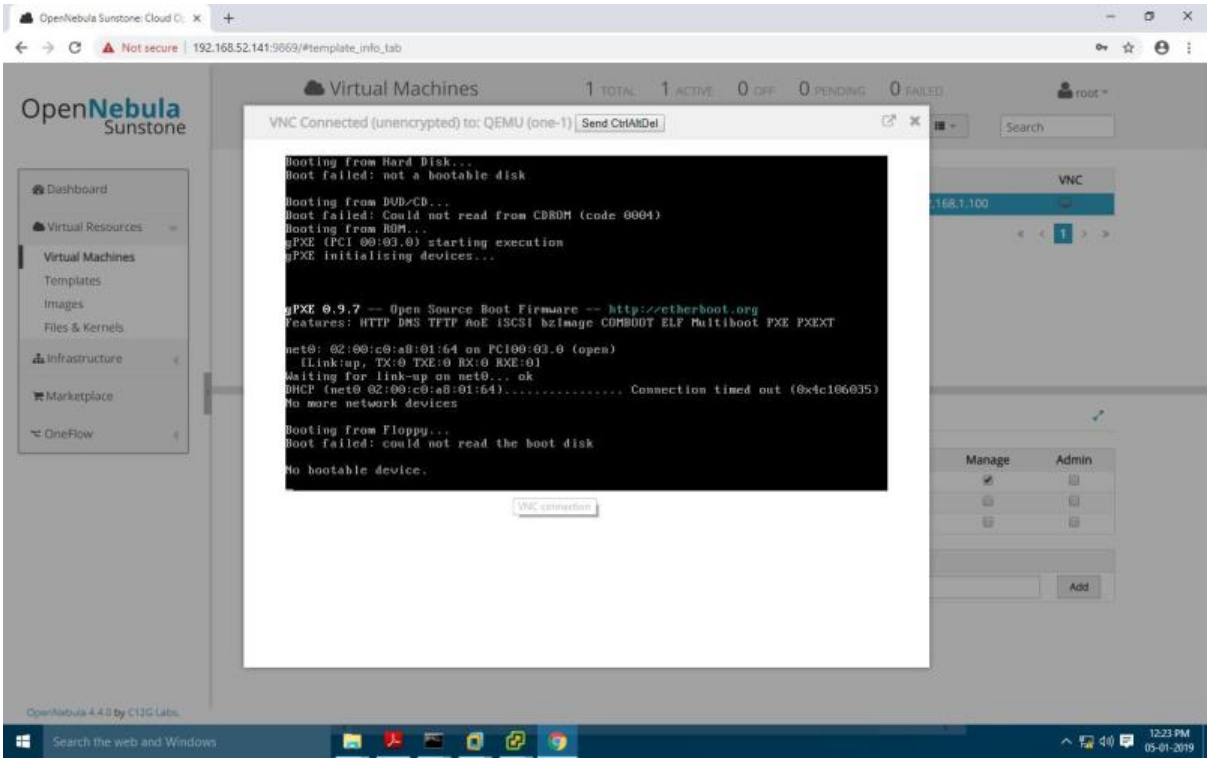


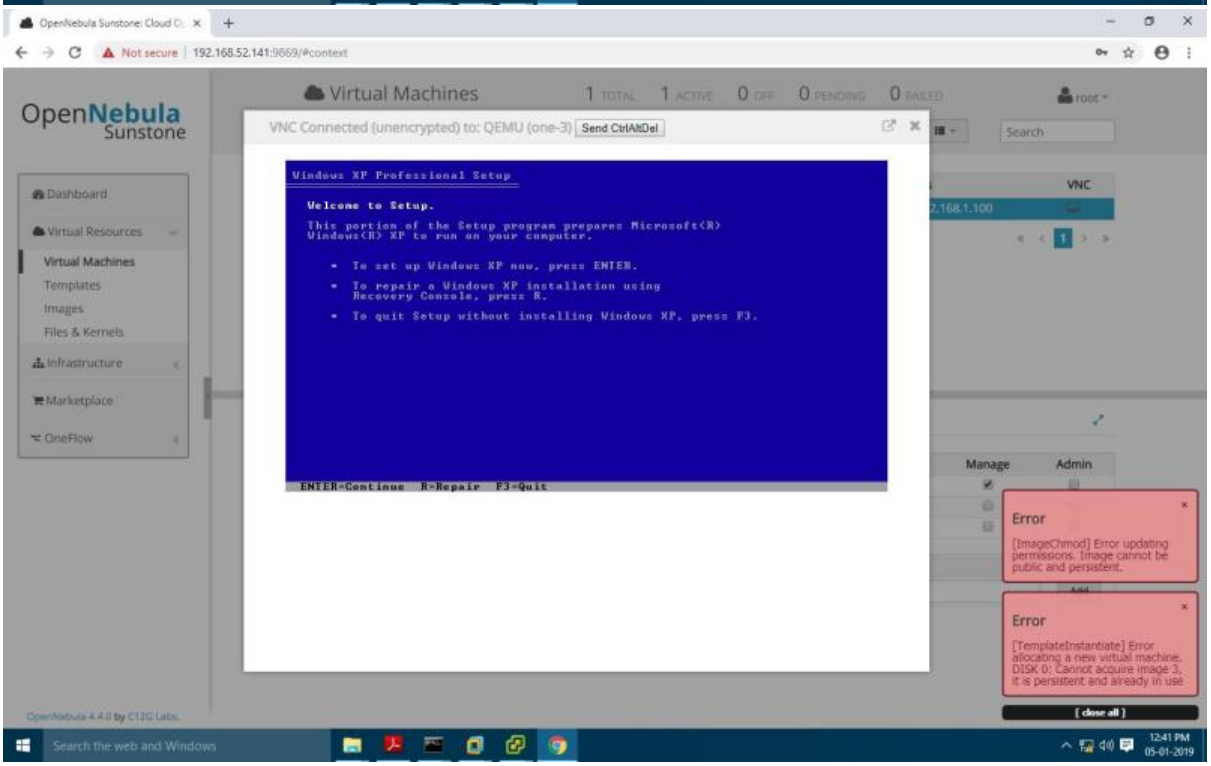
CLICK ON "VIRTUAL MACHINES"



CLICK ON REFRESH ICON




OpenNebula Sunstone: Cloud O
Not secure | 192.168.52.141:9869/#template_info_tab
OpenNebula Sunstone
Virtual Machines
1 TOTAL 1 ACTIVE 0 OFF 0 PENDING 0 FAILED
root
VNC Connected (unencrypted) to: QEMU (one-1)
Send CtrlAltDel
Booting from Hard Disk...
Boot failed: not a bootable disk
Booting from DVD/CD...
Boot failed: Could not read from CDROM (code 0004)
Booting from ROM...
gPXE (PCI 00:03.0) starting execution
gPXE initialising devices...
gPXE 0.9.7 -- Open Source Boot Firmware -- http://etherboot.org
Features: HTTP DNS TFTP AoE iSCSI bzImage COMBOOT ELF Multiboot PXE PXEXT
net0: 02:00:c0:a8:01:64 on PCI00:03.0 (open)
[Link:up, TX:0 TXE:0 RX:0 RXE:0]
Waiting for link-up on net0... ok
DHCP (net0 02:00:c0:a8:01:64)..... Connection timed out (0x4c106035)
No more network devices
Booting from Floppy...
Boot failed: could not read the boot disk
No bootable device.
VNC connection
Dashboard
Virtual Resources
Virtual Machines
Templates
Images
Files & Kernels
Infrastructure
Marketplace
OneFlow
Search
VNC
Manage
Admin
Add
OpenNebula 4.4.0 by C12G Labs.
Search the web and Windows
12:23 PM
05-01-2019

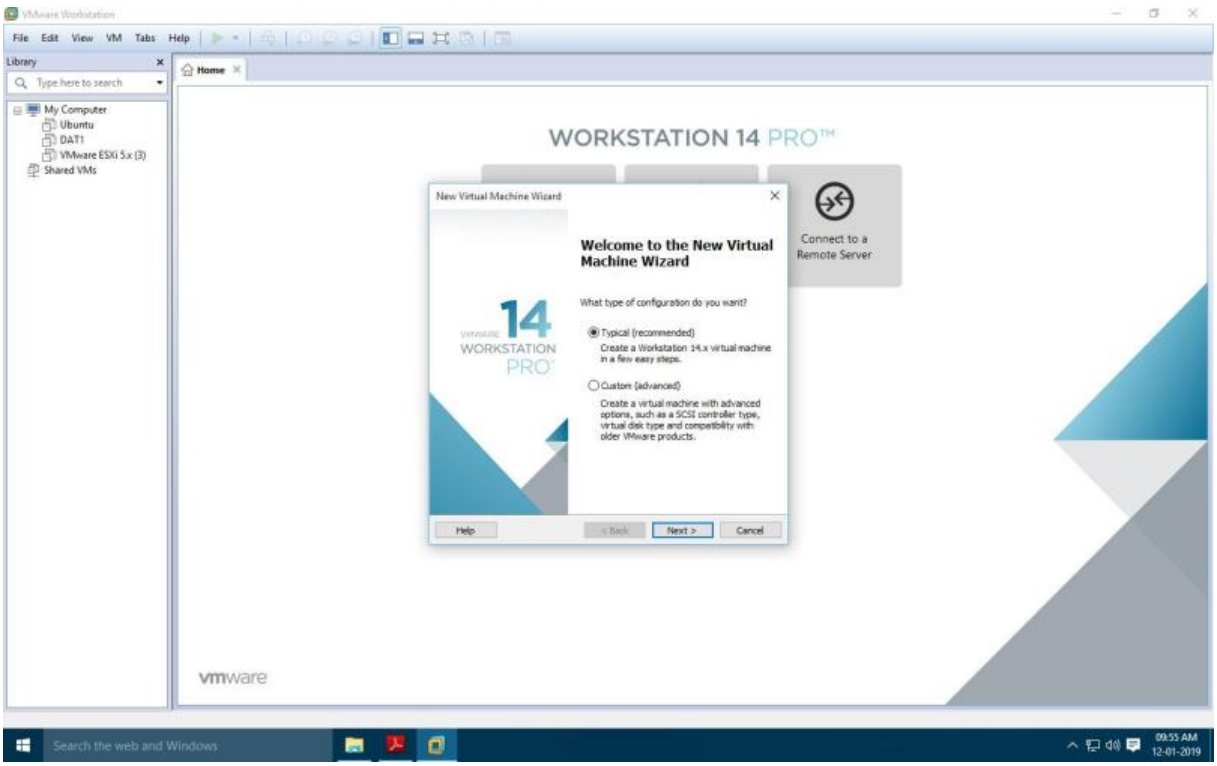

OpenNebula Sunstone: Cloud O
Not secure | 192.168.52.141:9869/#context
OpenNebula Sunstone
Virtual Machines
1 TOTAL 1 ACTIVE 0 OFF 0 PENDING 0 FAILED
root
VNC Connected (unencrypted) to: QEMU (one-3)
Send CtrlAltDel
Windows XP Professional Setup
Welcome to Setup.
This portion of the Setup program prepares Microsoft(R)
Windows(R) XP to run on your computer.
• To set up Windows XP now, press ENTER.
• To repair a Windows XP installation using
Recovery Console, press R.
• To quit Setup without installing Windows XP, press F3.
ENTER=Continue R=Repair F3=Quit
Dashboard
Virtual Resources
Virtual Machines
Templates
Images
Files & Kernels
Infrastructure
Marketplace
OneFlow
Search
VNC
Manage
Admin
Error
[ImageChmod] Error updating permissions. Image cannot be public and persistent.
Error
[TemplateInstantiate] Error allocating a new virtual machine. DISK 0: Cannot acquire image 3, it is persistent and already in use
[close all]
OpenNebula 4.4.0 by C12G Labs.
Search the web and Windows
12:41 PM
05-01-2019

PRACTICAL: 8
IMPLEMENT IAAS USING EUCALYPTUS

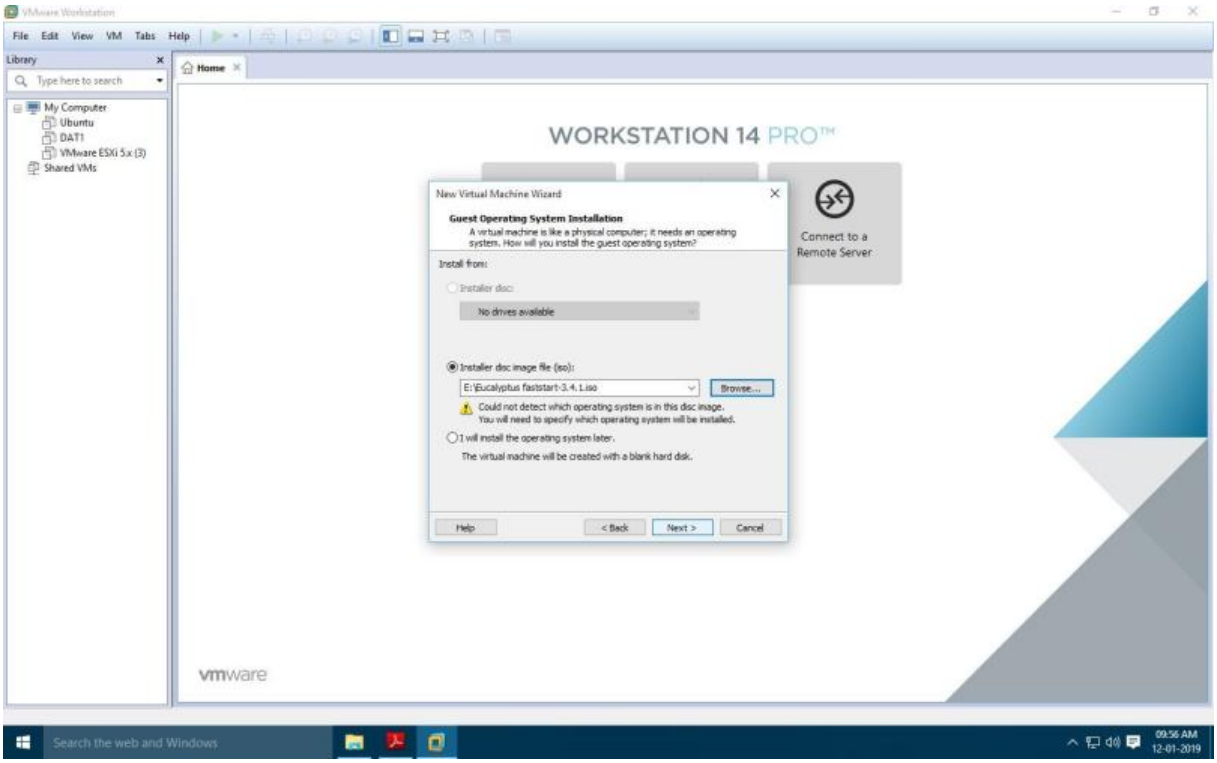
Steps:

Open Vmware Workstation 10 Go on →File →New Virtual machine .

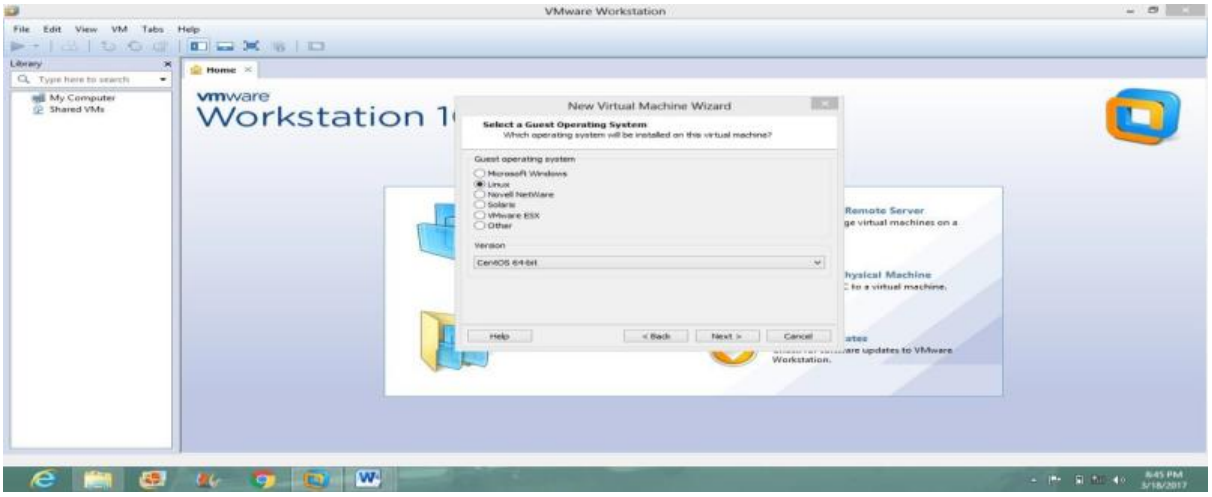
Select Type of Configuration "**Typical**"



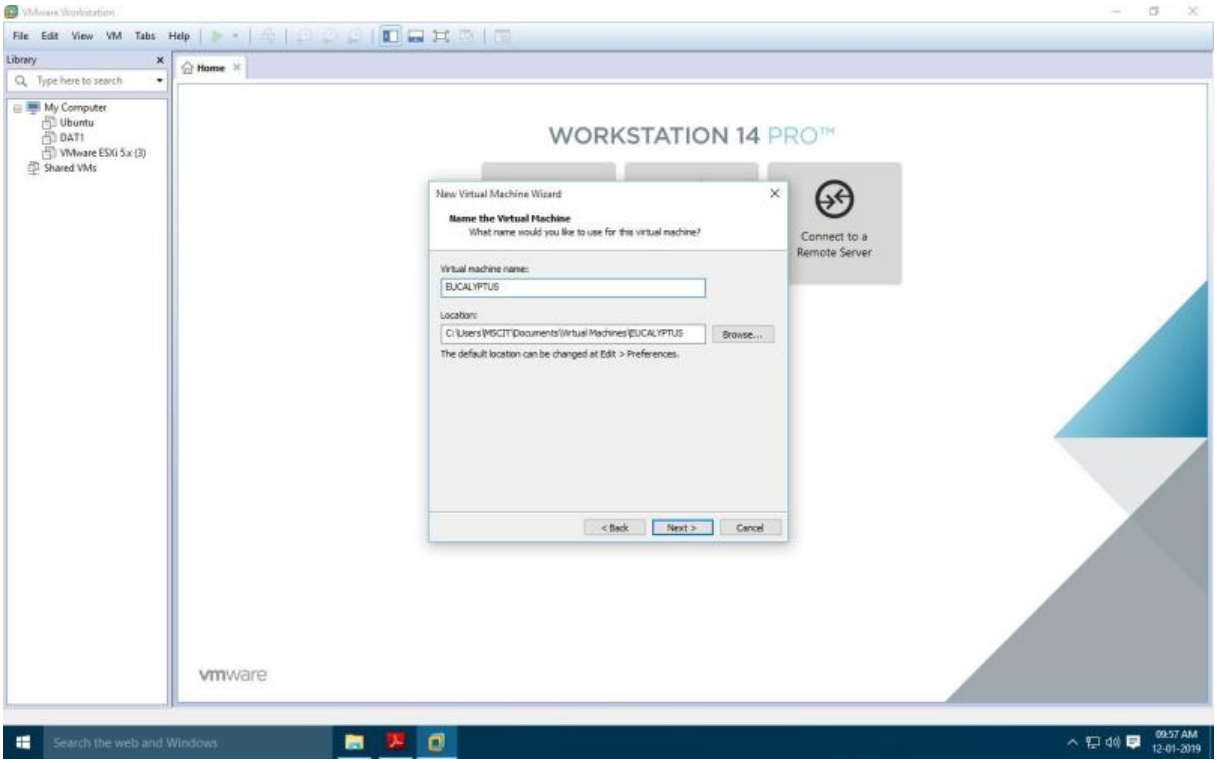
Select **IOS** image file browse the path of .iso file → Next



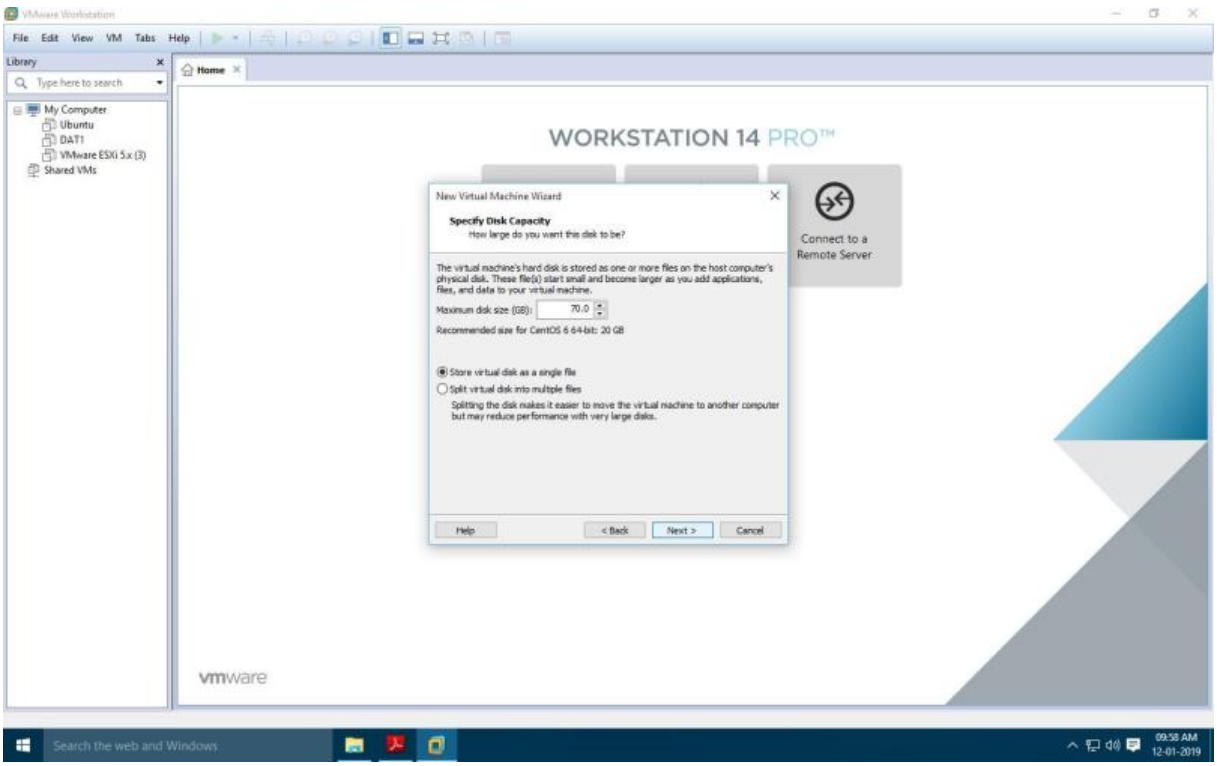
Select Grant Operating System "**Linux**" and version "**CentOS 64-Bit**"



Given the Virtual Machine Name → Next

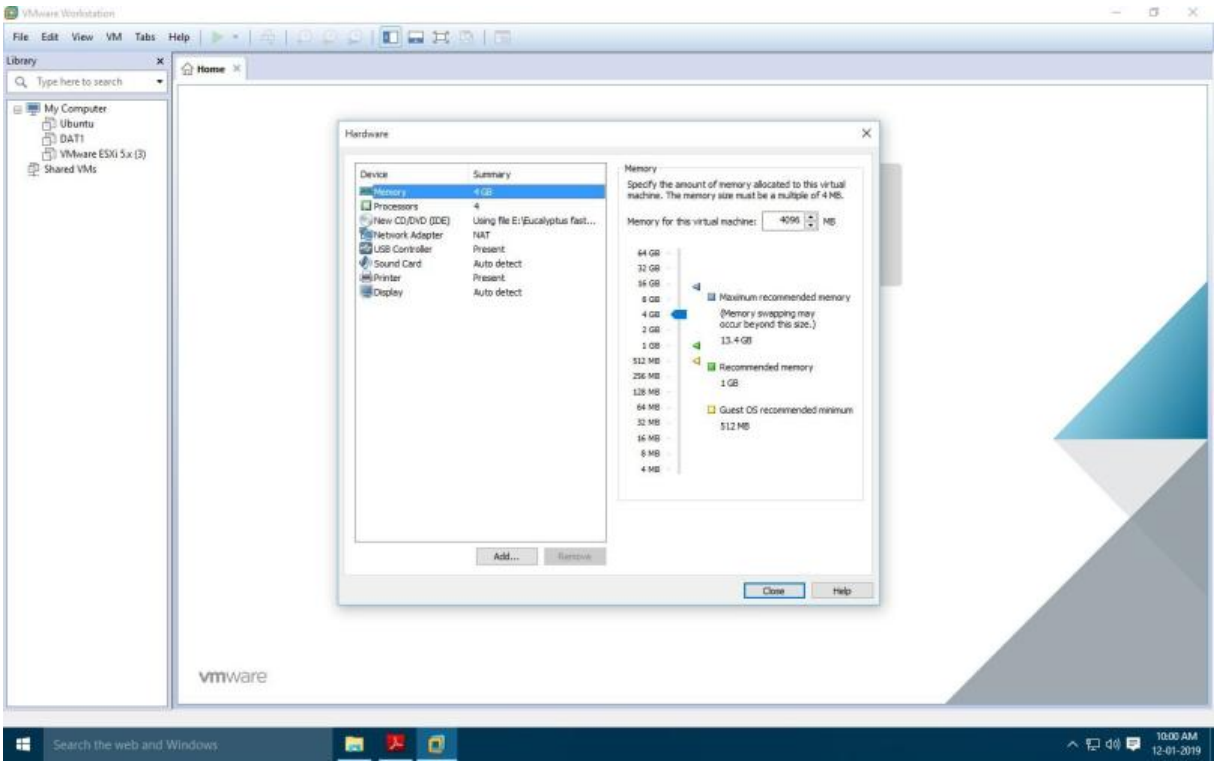


Set Memory disk size : 70 GB & Select Store virtual disk as a single file →Next.

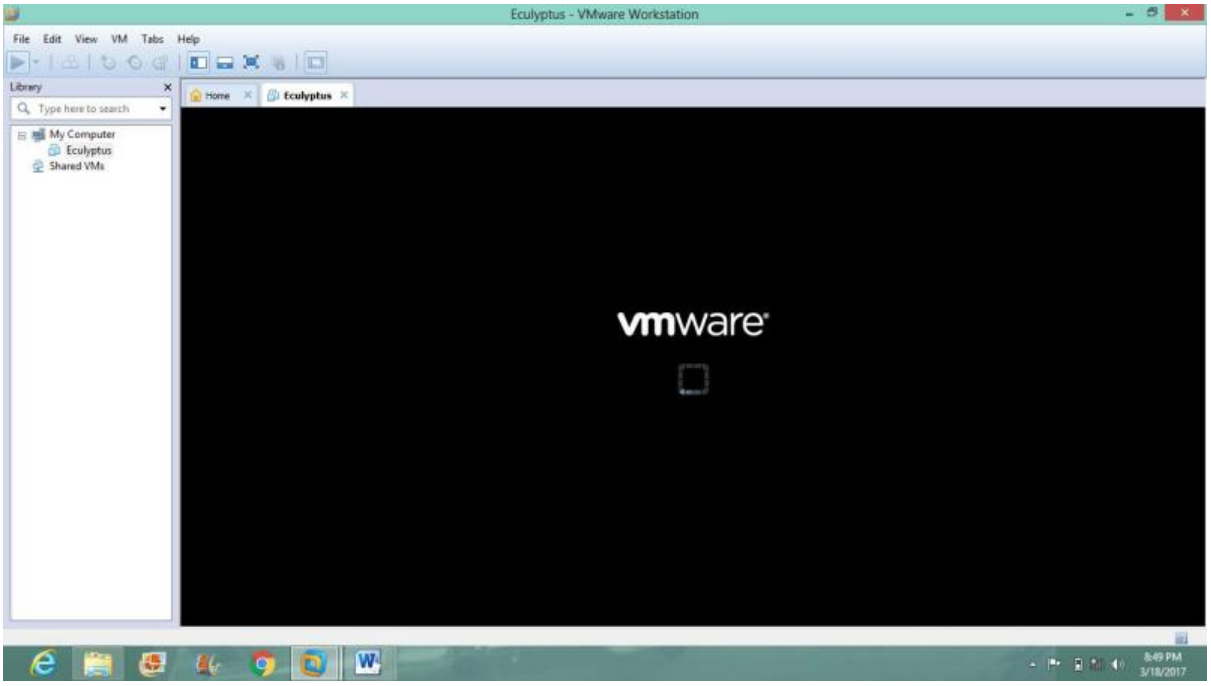


Set below configuration setting

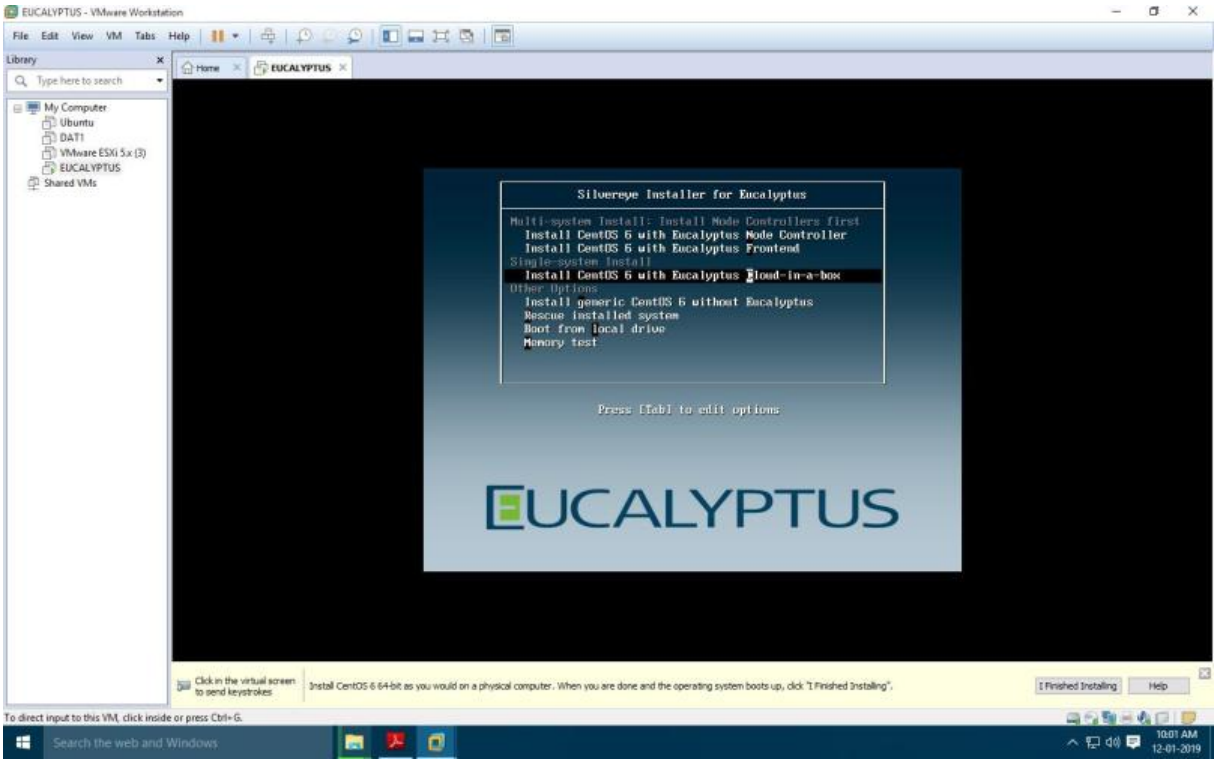
RAM: 4 to 6 gb
Processors : 2
No of core processors : 2
Select Virtualize Intel VT Click on Ok

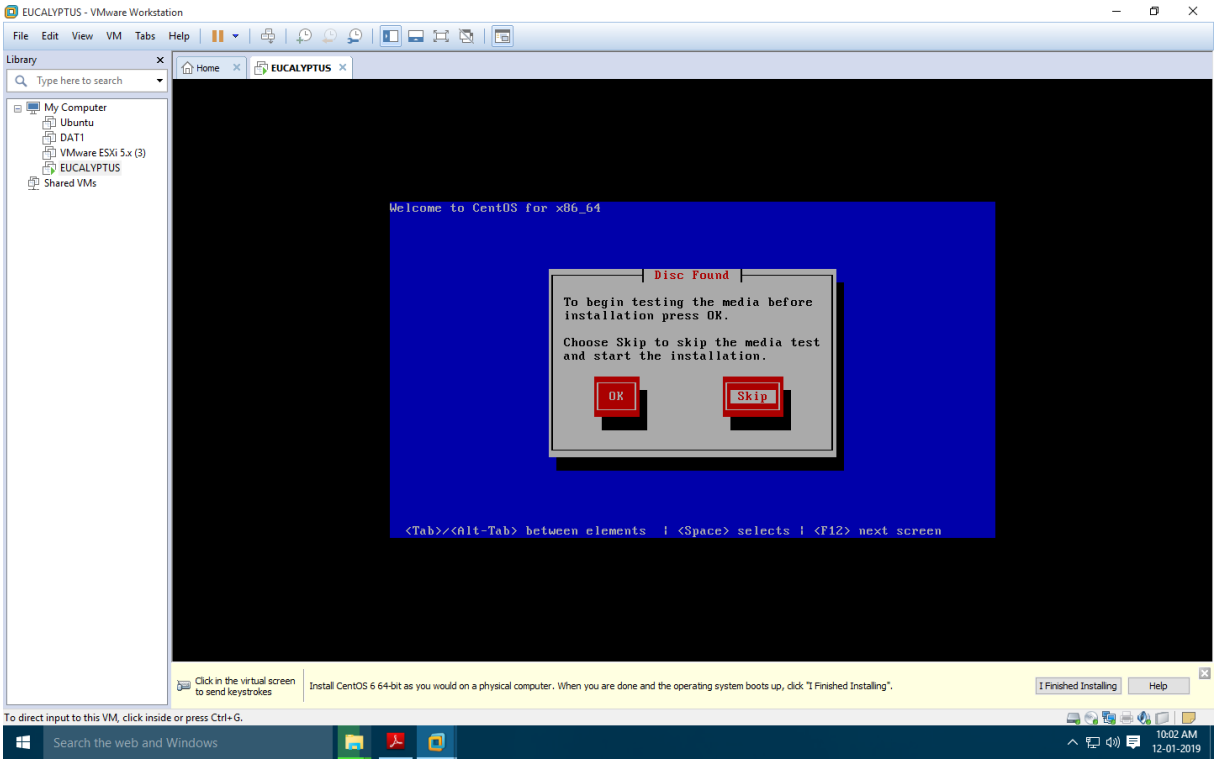


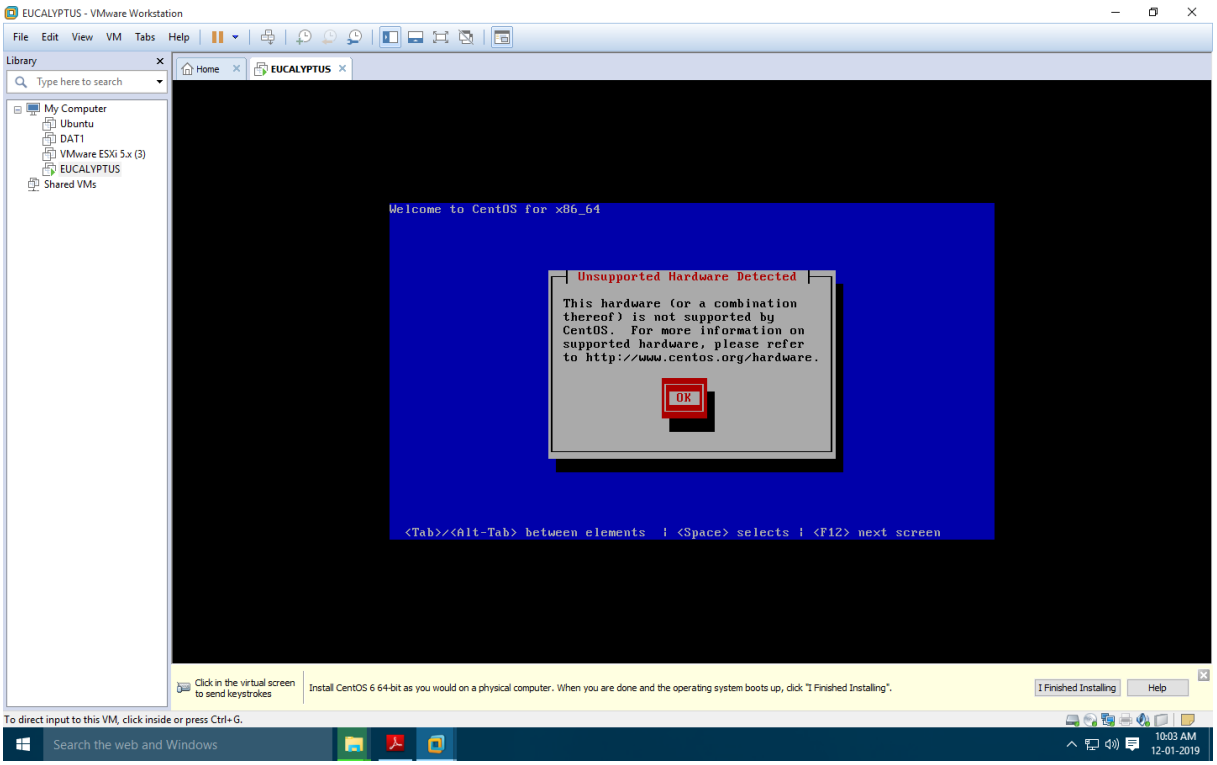
Power on virtual Machine.

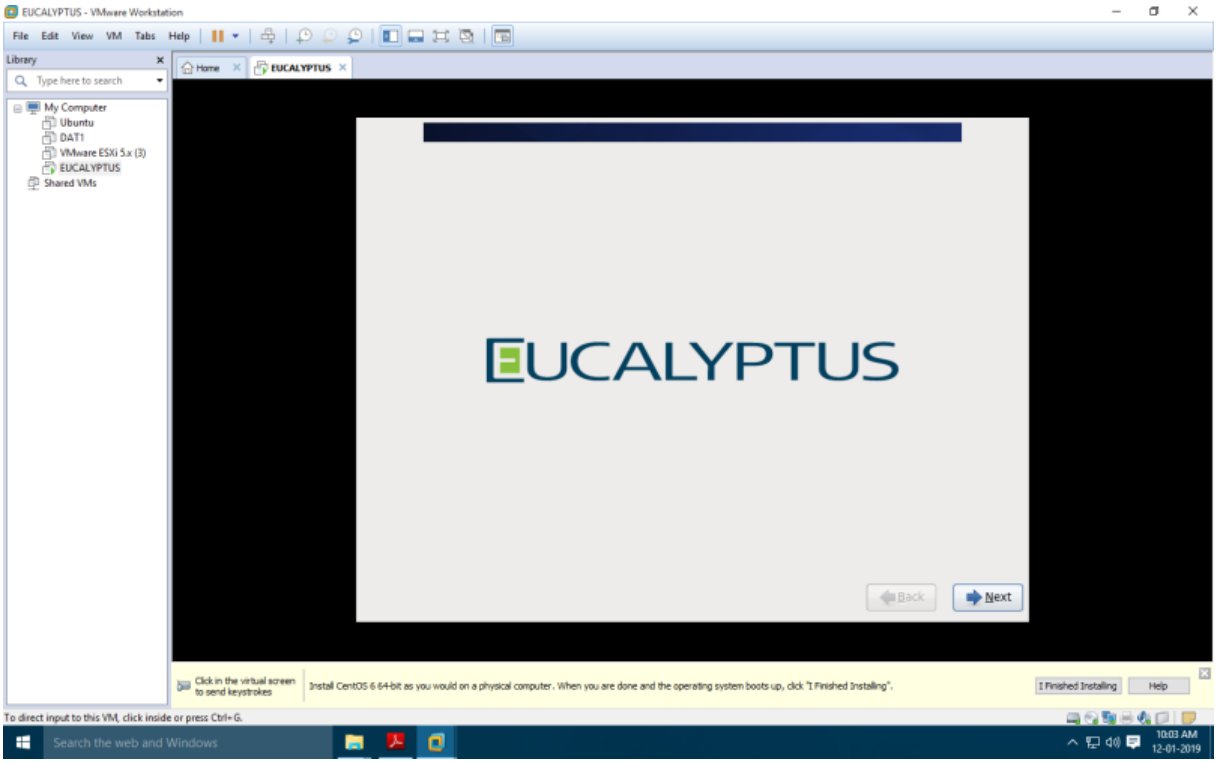


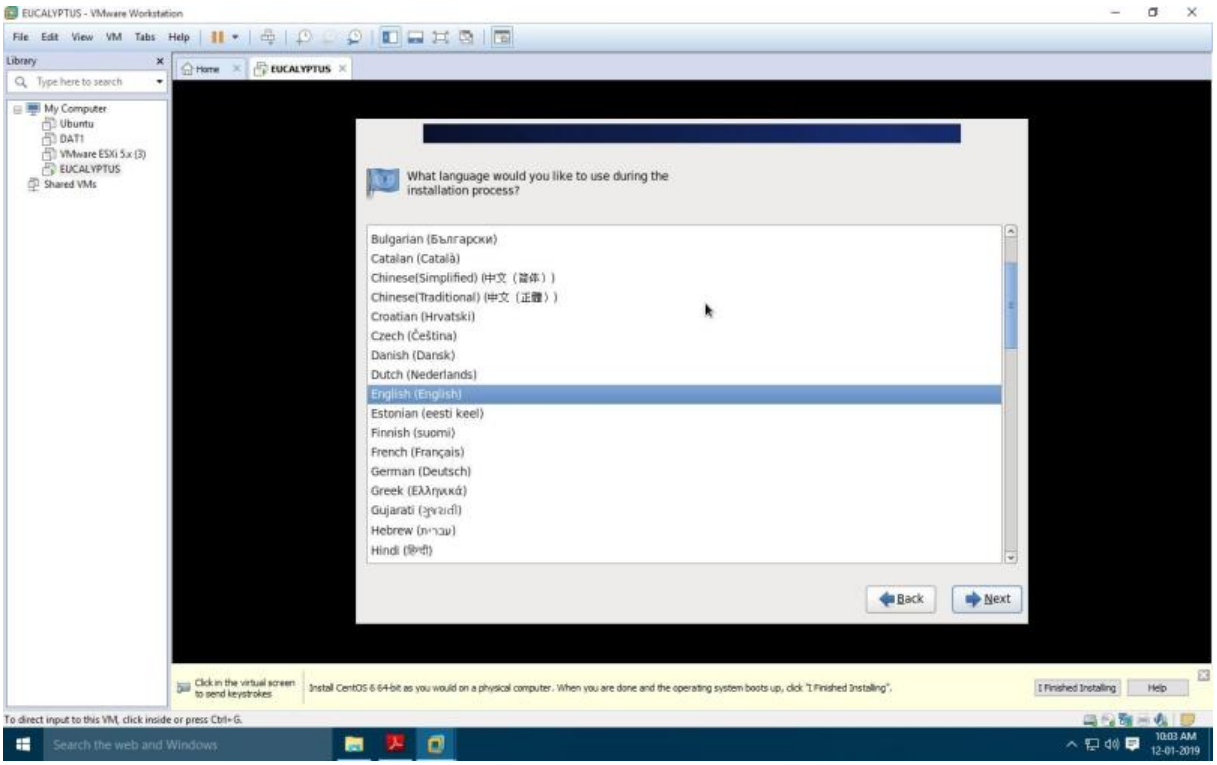
Select "**Install CentOS 6 with Eucalyptus Cloud-in-a-box**" → Enter

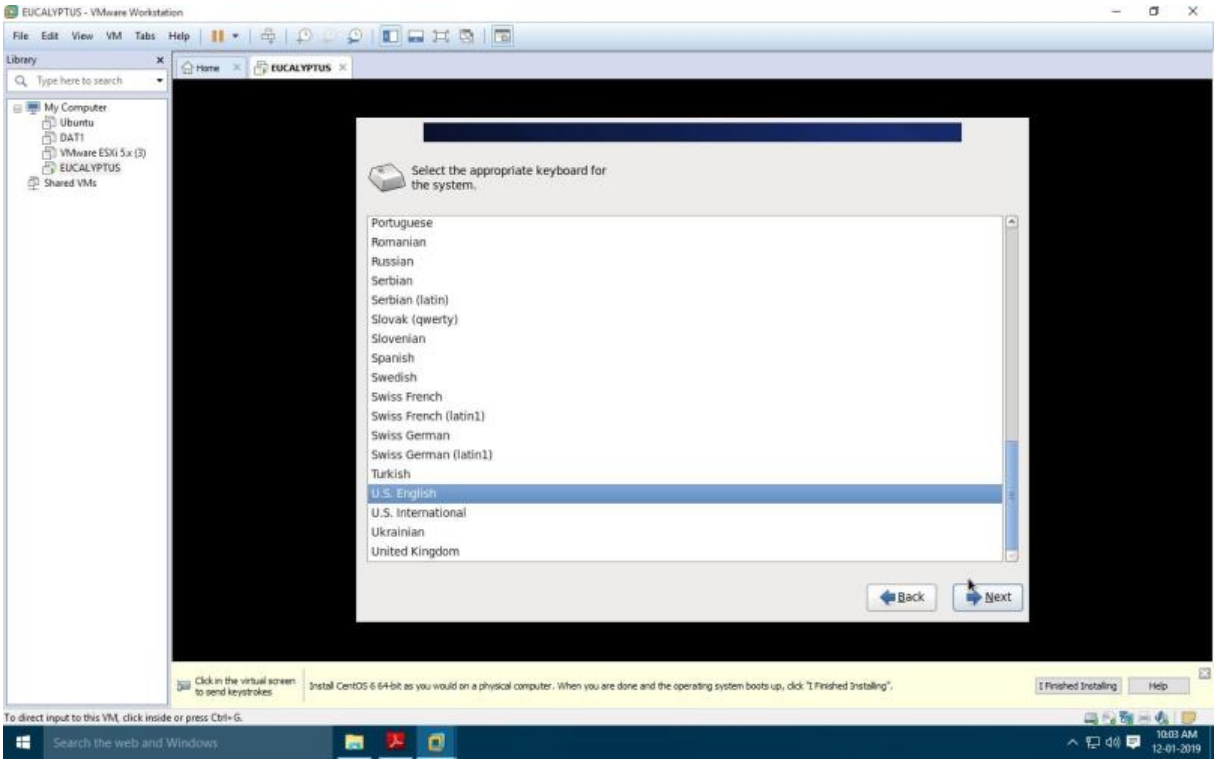



EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Welcome to CentOS for x86_64
Disc Found
To begin testing the media before installation press OK.
Choose Skip to skip the media test and start the installation.
OK
Skip
<Tab>/<Alt-Tab> between elements | <Space> selects | <F12> next screen
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:02 AM
12-01-2019

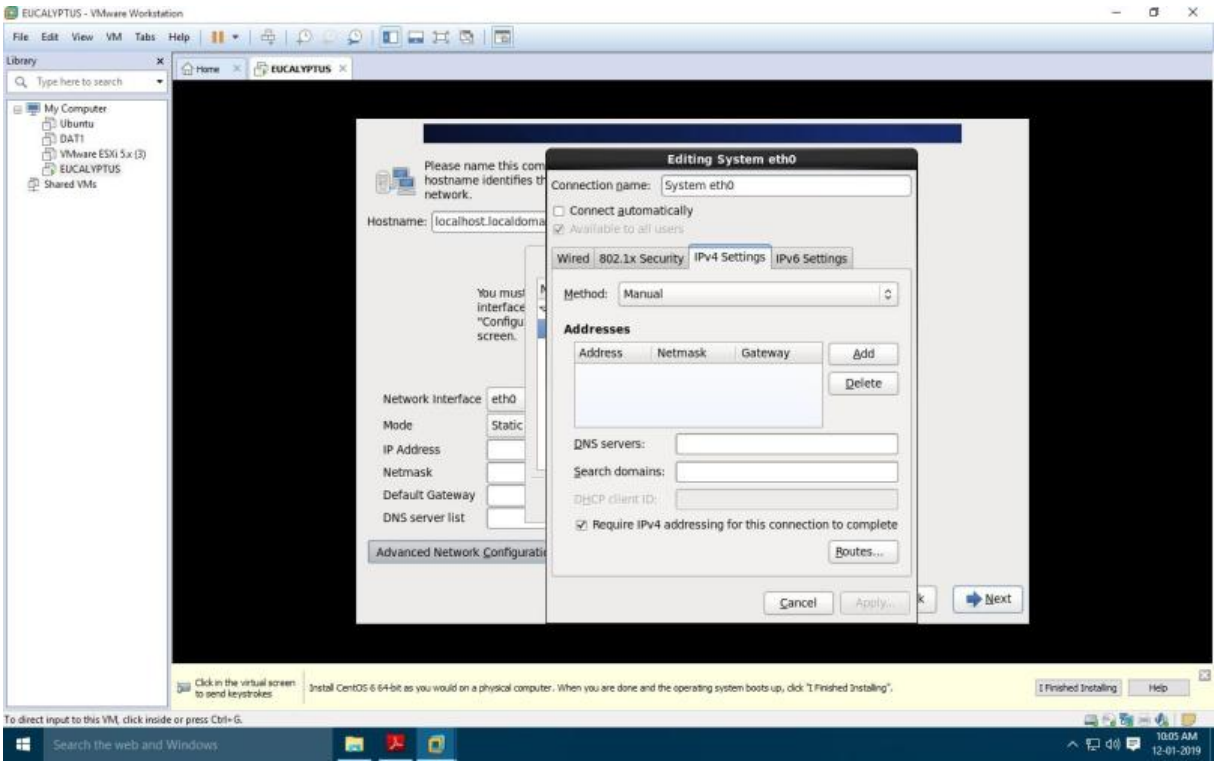

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Welcome to CentOS for x86_64
Unsupported Hardware Detected
This hardware (or a combination thereof) is not supported by CentOS. For more information on supported hardware, please refer to http://www.centos.org/hardware.
OK
<Tab>/<Alt-Tab> between elements | <Space> selects | <F12> next screen
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:03 AM
12-01-2019

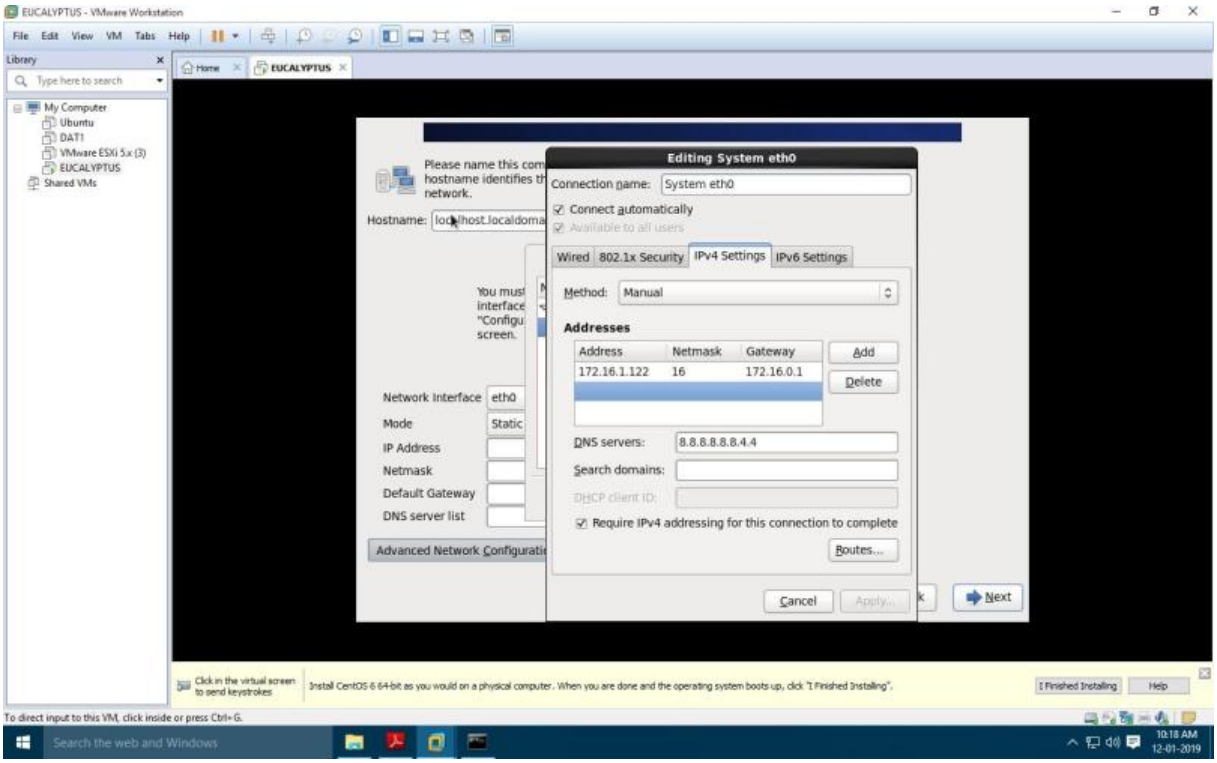

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
EUCALYPTUS
Back
Next
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:03 AM
12-01-2019

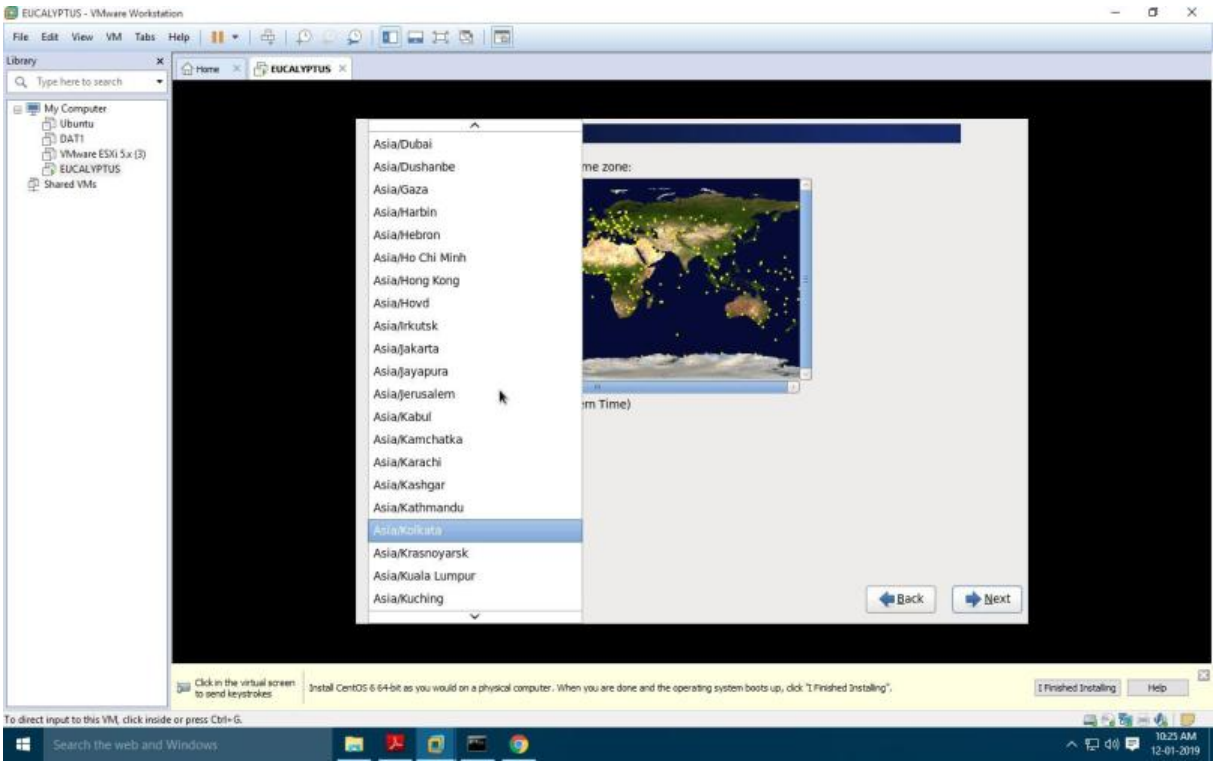

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
What language would you like to use during the installation process?
Bulgarian (Български)
Catalan (Català)
Chinese(Simplified) (中文（简体）)
Chinese(Traditional) (中文（正體）)
Croatian (Hrvatski)
Czech (Čeština)
Danish (Dansk)
Dutch (Nederlands)
English (English)
Estonian (eesti keel)
Finnish (suomi)
French (Français)
German (Deutsch)
Greek (Ελληνικά)
Gujarati (ગુજરાતી)
Hebrew (עברית)
Hindi (हिन्दी)
Back
Next
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:03 AM
12-01-2019



Configure the Network Settings with your System's IPV4 address

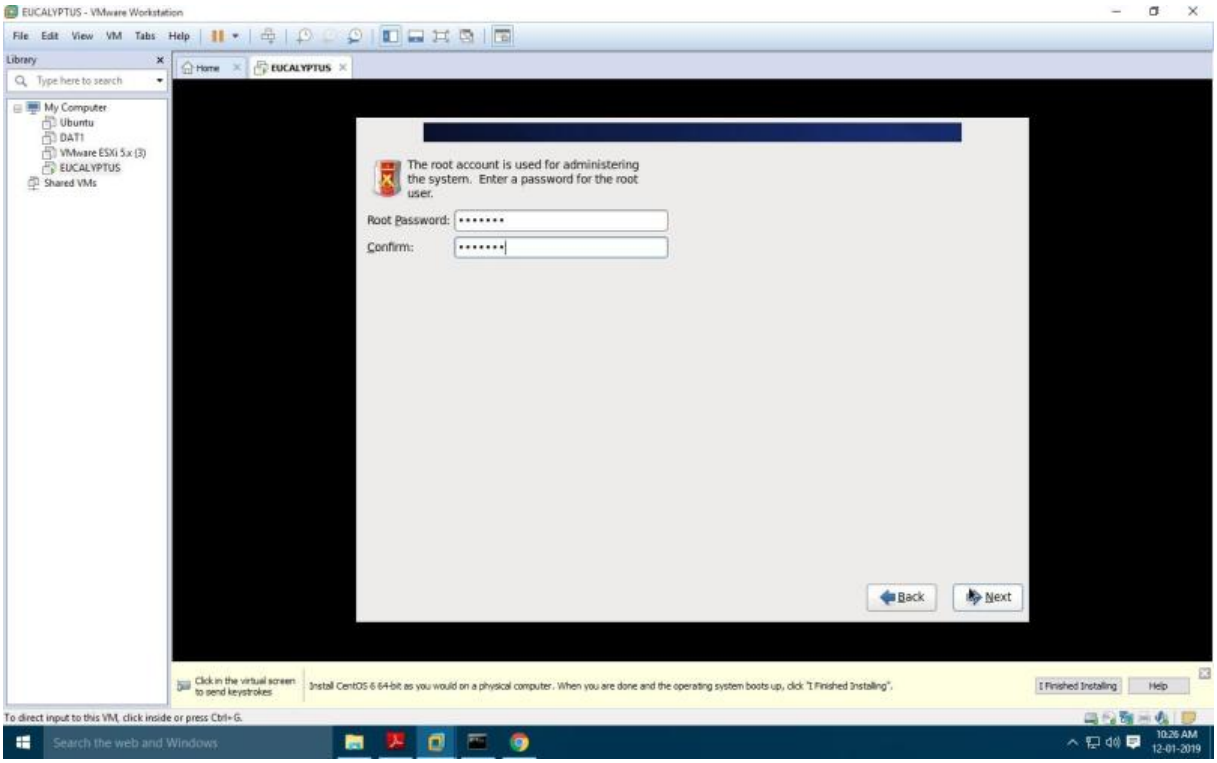


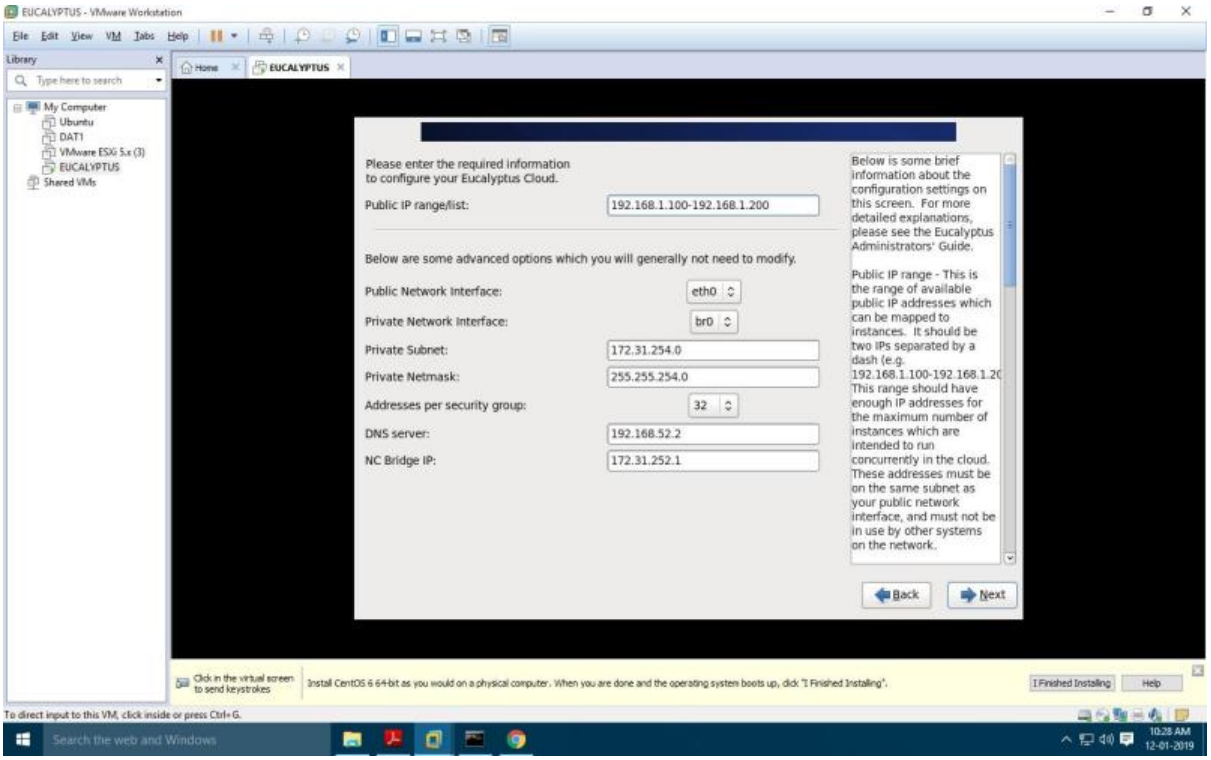


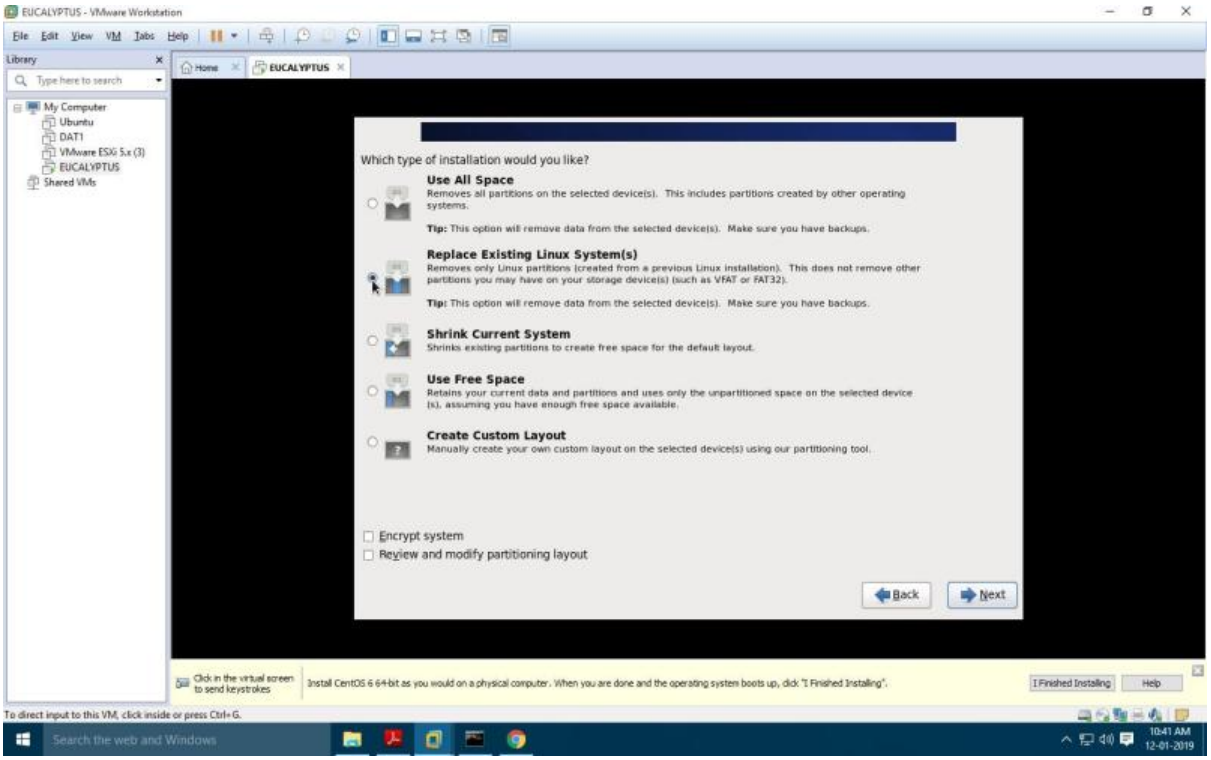


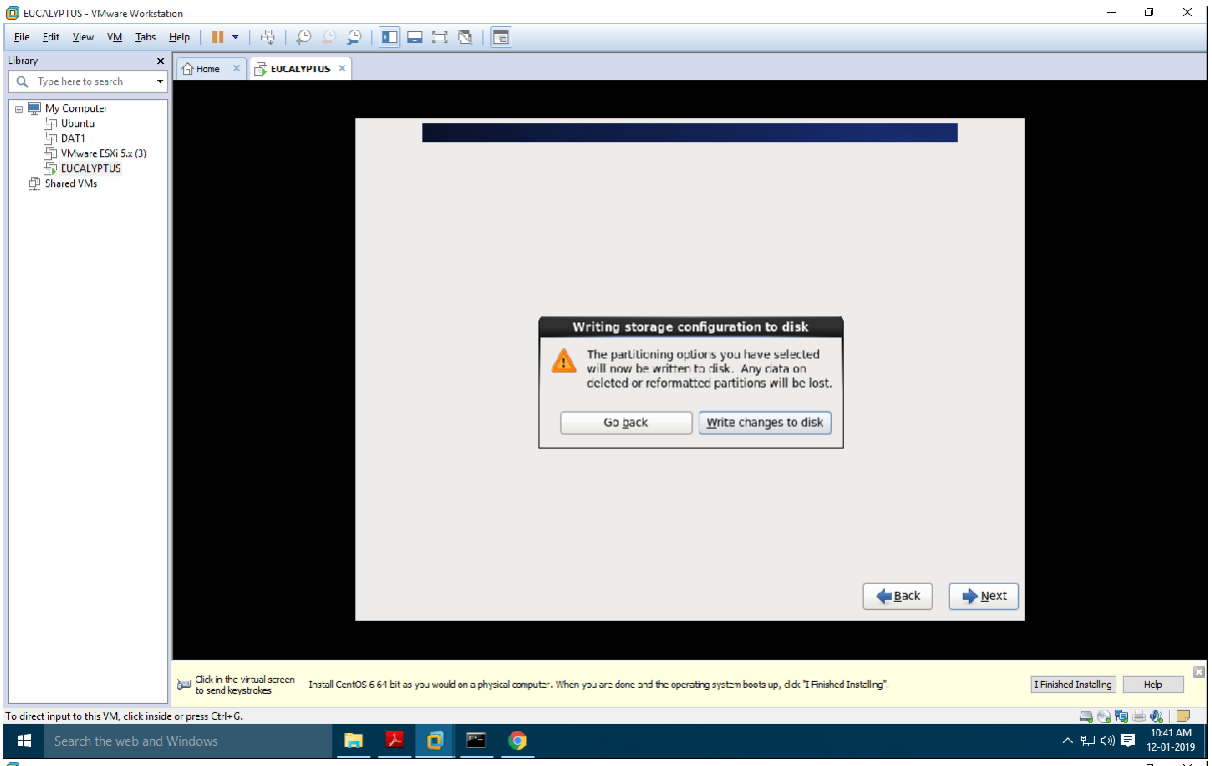
Enter the user name:root

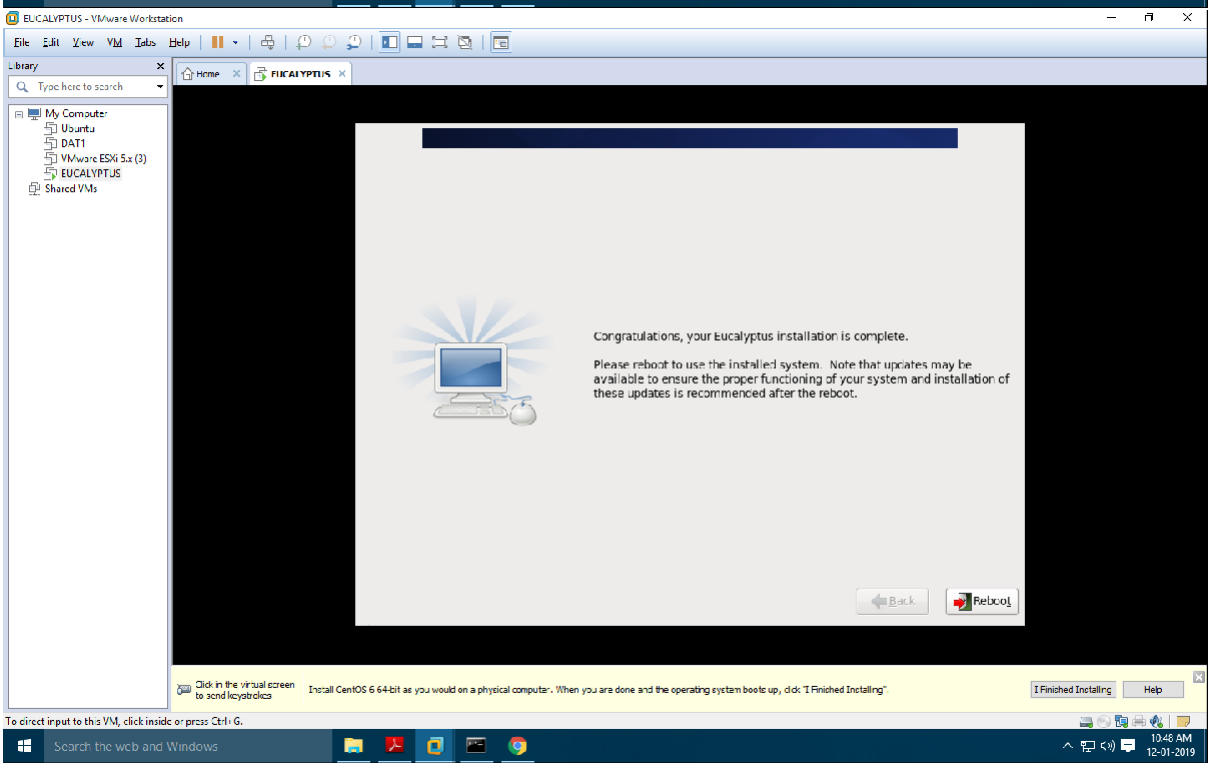
Password:root123

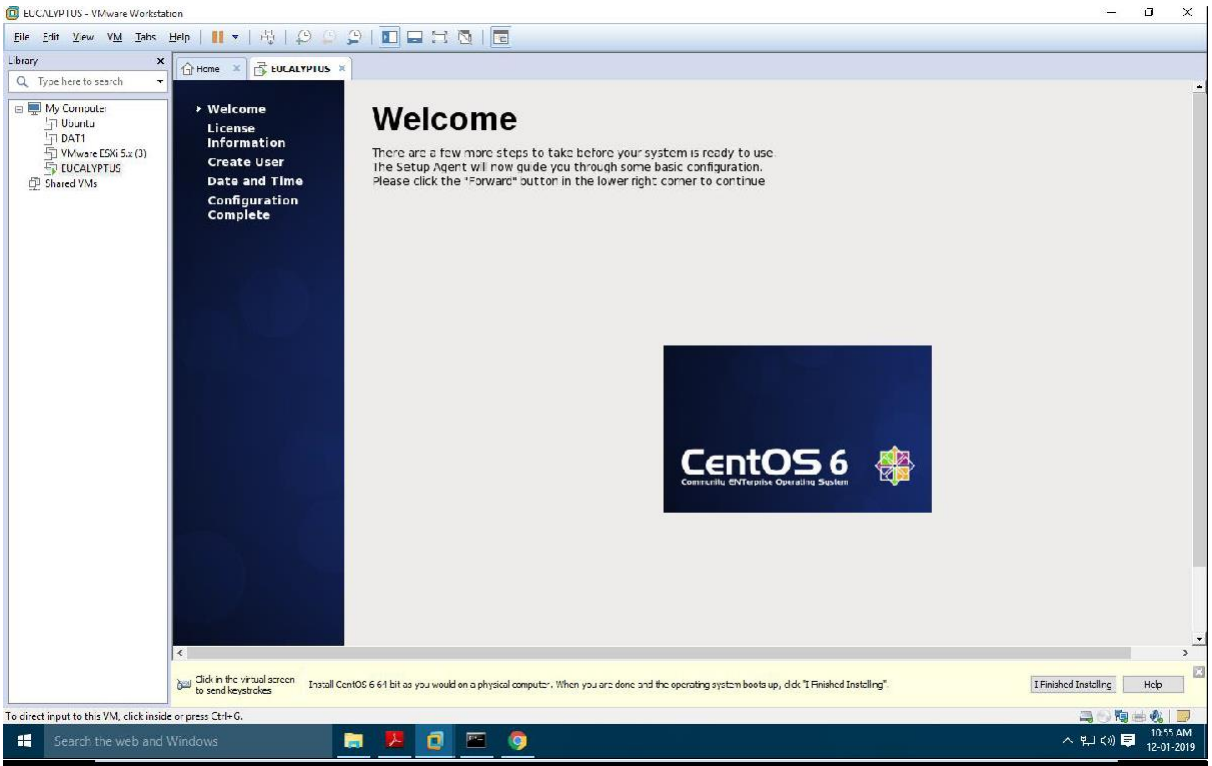

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
The root account is used for administering the system. Enter a password for the root user.
Root Password:
Confirm:
Back
Next
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click 'I Finished Installing'.
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:26 AM
12-01-2019

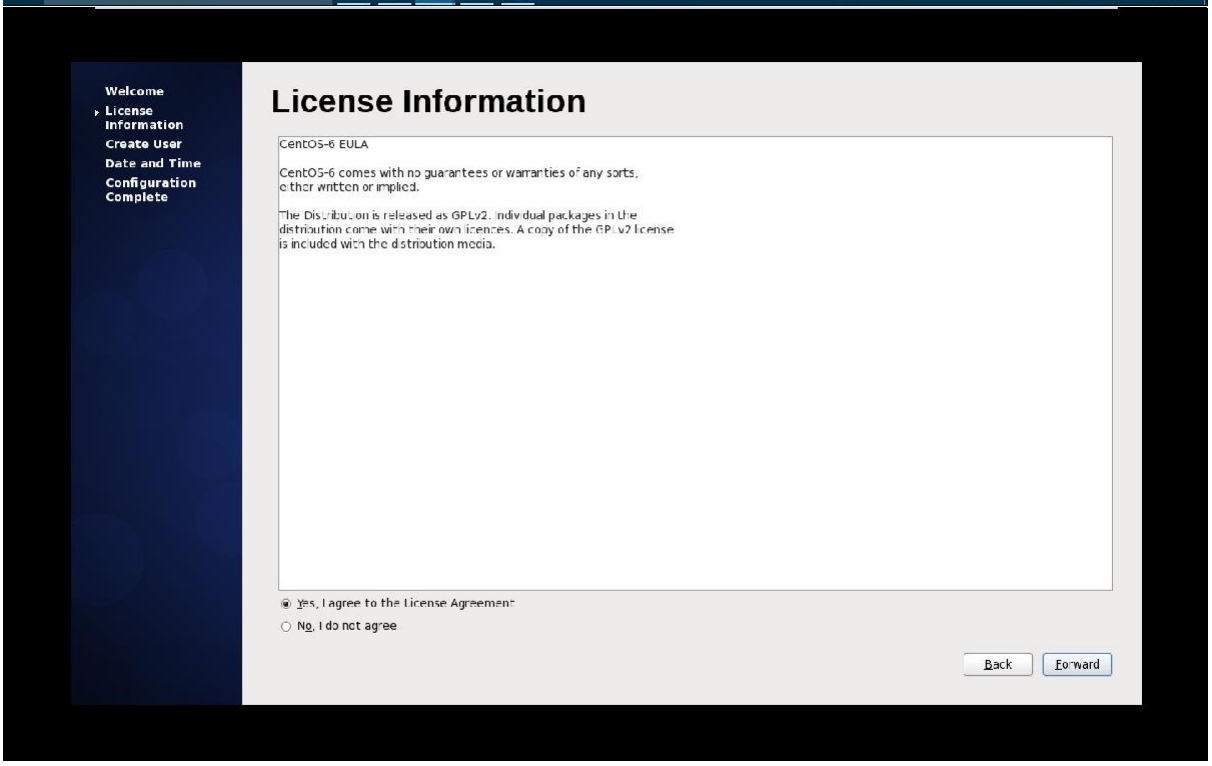

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Please enter the required information to configure your Eucalyptus Cloud.
Public IP range/list:
192.168.1.100-192.168.1.200
Below are some advanced options which you will generally not need to modify.
Public Network Interface:
eth0
Private Network Interface:
br0
Private Subnet:
172.31.254.0
Private Netmask:
255.255.254.0
Addresses per security group:
32
DNS server:
192.168.52.2
NC Bridge IP:
172.31.252.1
Below is some brief information about the configuration settings on this screen. For more detailed explanations, please see the Eucalyptus Administrators' Guide.
Public IP range - This is the range of available public IP addresses which can be mapped to instances. It should be two IPs separated by a dash (e.g. 192.168.1.100-192.168.1.2
This range should have enough IP addresses for the maximum number of instances which are intended to run concurrently in the cloud. These addresses must be on the same subnet as your public network interface, and must not be in use by other systems on the network.
Back
Next
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click 'I Finished Installing'.
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:28 AM
12-01-2019

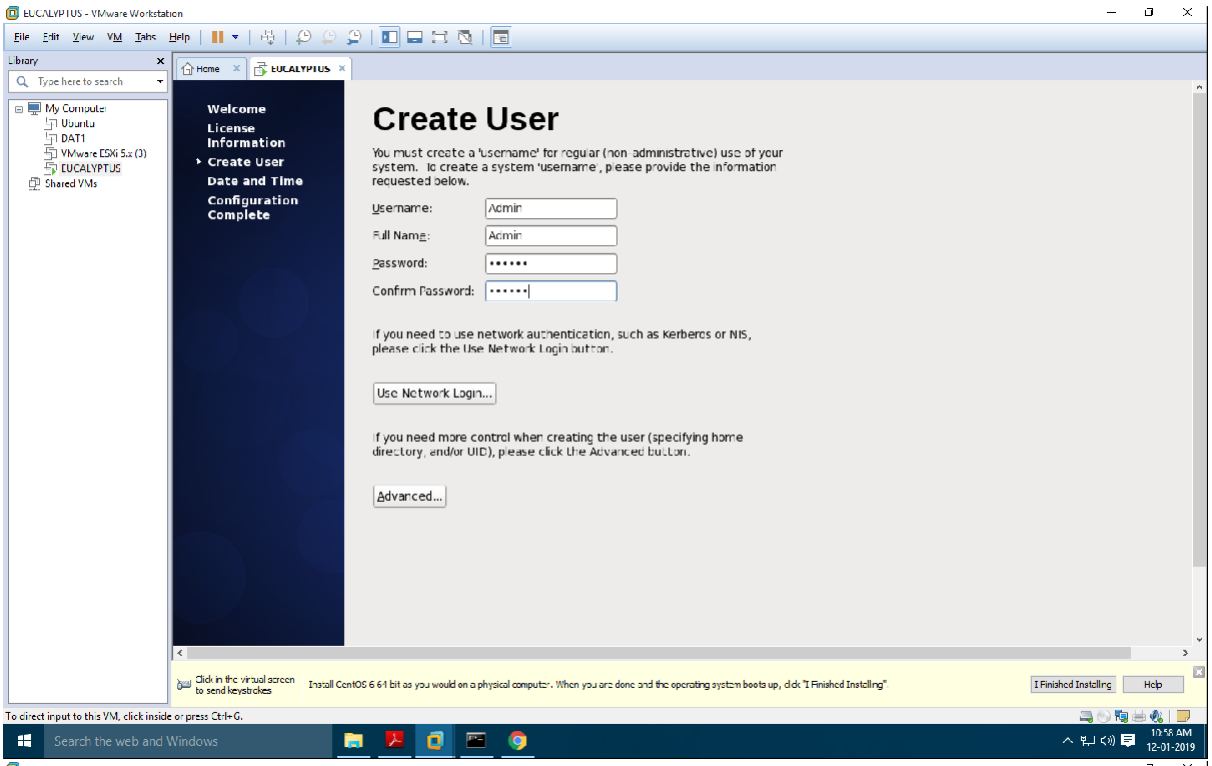

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Which type of installation would you like?
Use All Space
Removes all partitions on the selected device(s). This includes partitions created by other operating systems.
Tip: This option will remove data from the selected device(s). Make sure you have backups.
Replace Existing Linux System(s)
Removes only Linux partitions (created from a previous Linux installation). This does not remove other partitions you may have on your storage device(s) (such as VFAT or FAT32).
Tip: This option will remove data from the selected device(s). Make sure you have backups.
Shrink Current System
Shrinks existing partitions to create free space for the default layout.
Use Free Space
Retains your current data and partitions and uses only the unpartitioned space on the selected device (s), assuming you have enough free space available.
Create Custom Layout
Manually create your own custom layout on the selected device(s) using our partitioning tool.
Encrypt system
Review and modify partitioning layout
Back
Next
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click 'I Finished Installing'.
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:41 AM
12-01-2019

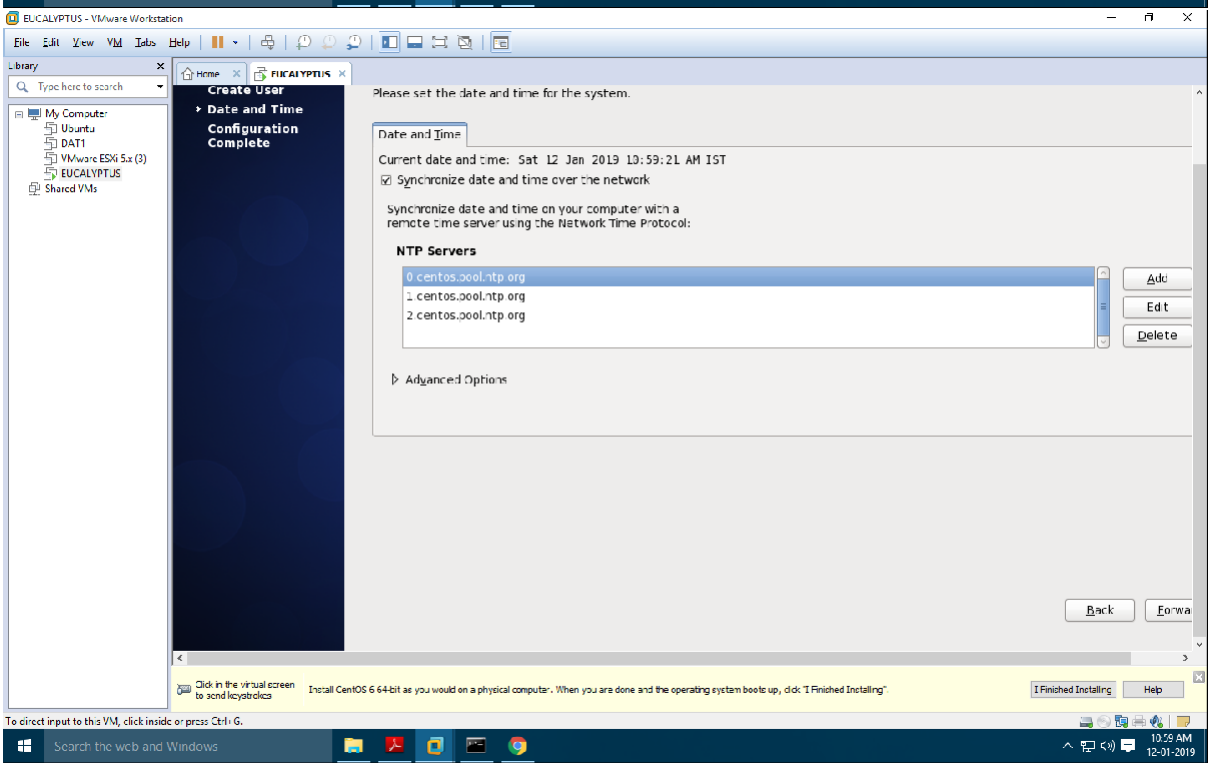

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Writing storage configuration to disk
The partitioning options you have selected will now be written to disk. Any data on deleted or reformatted partitions will be lost.
Go Back
Write changes to disk
Back
Next
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:41 AM
12-01-2019

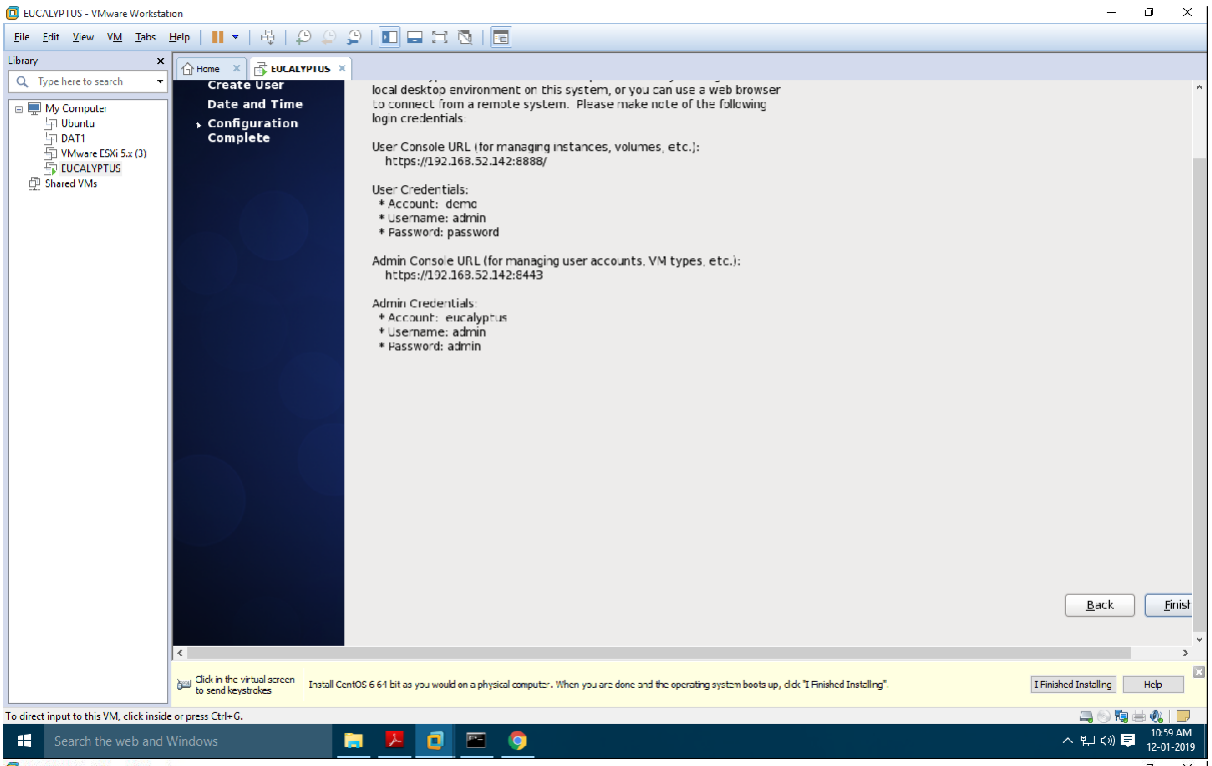

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Congratulations, your Eucalyptus installation is complete.
Please reboot to use the installed system. Note that updates may be available to ensure the proper functioning of your system and installation of these updates is recommended after the reboot.
Back
Reboot
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:48 AM
12-01-2019

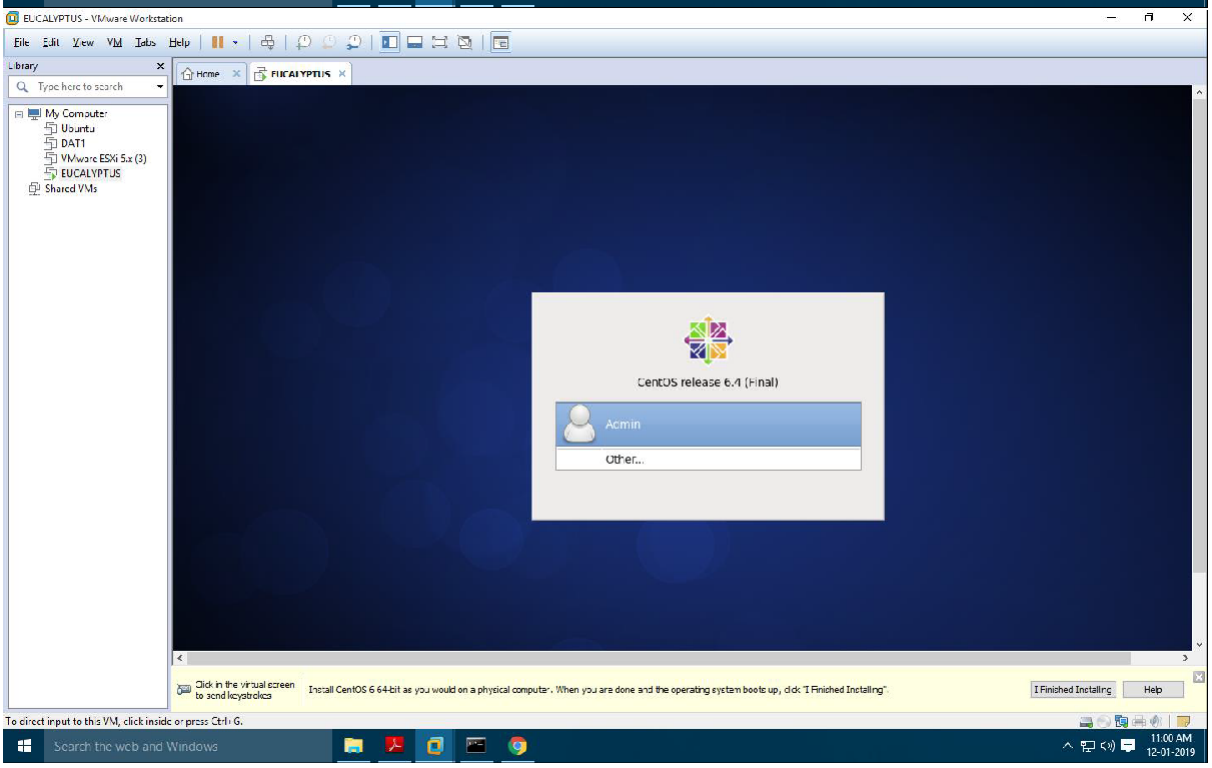

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Welcome
License Information
Create User
Date and Time
Configuration Complete
Welcome
There are a few more steps to take before your system is ready to use.
The Setup Agent will now guide you through some basic configuration.
Please click the "Forward" button in the lower right corner to continue
CentOS 6
Community ENTerprise Operating System
Click in the virtual screen to send keystrokes
Install CentOS 6 64 bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:55 AM
12-01-2019

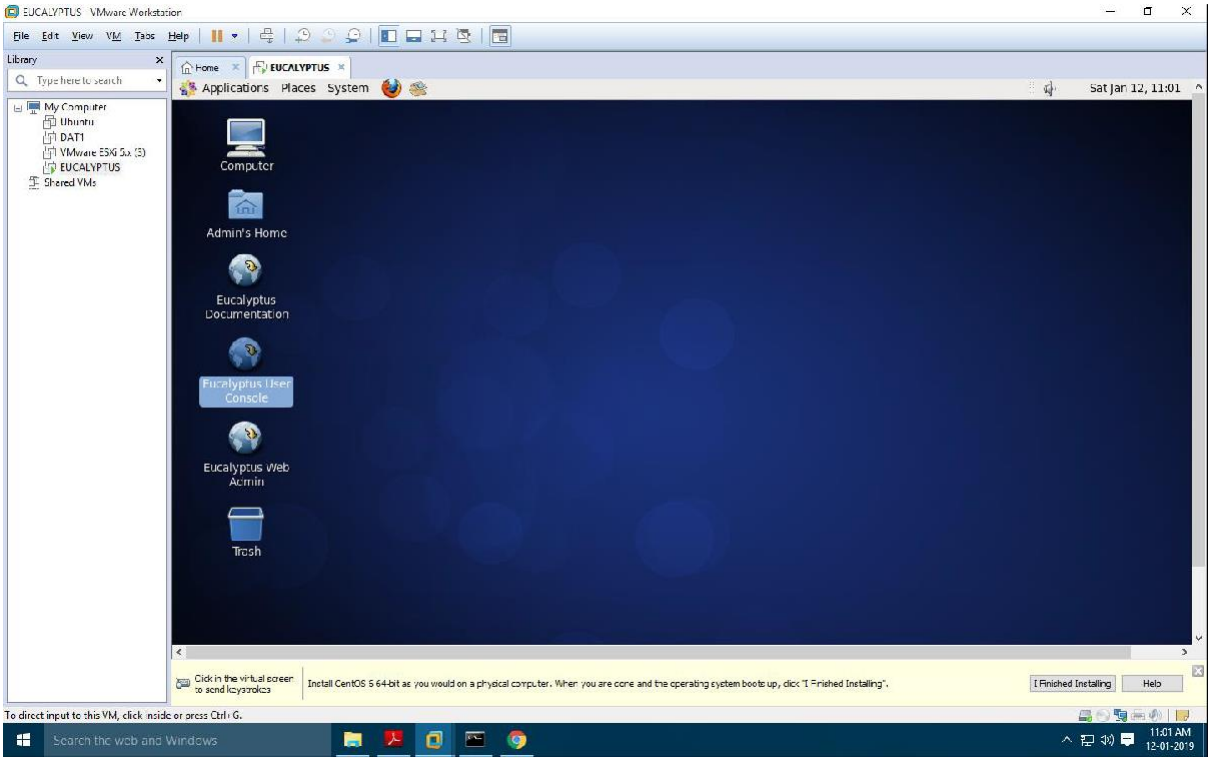

Welcome
License Information
Create User
Date and Time
Configuration Complete
License Information
CentOS-6 EULA
CentOS-6 comes with no guarantees or warranties of any sorts,
either written or implied.
The Distribution is released as GPLv2. Individual packages in the
distribution come with their own licenses. A copy of the GPLv2 license
is included with the distribution media.
Yes, I agree to the License Agreement
No, I do not agree
Back
Forward

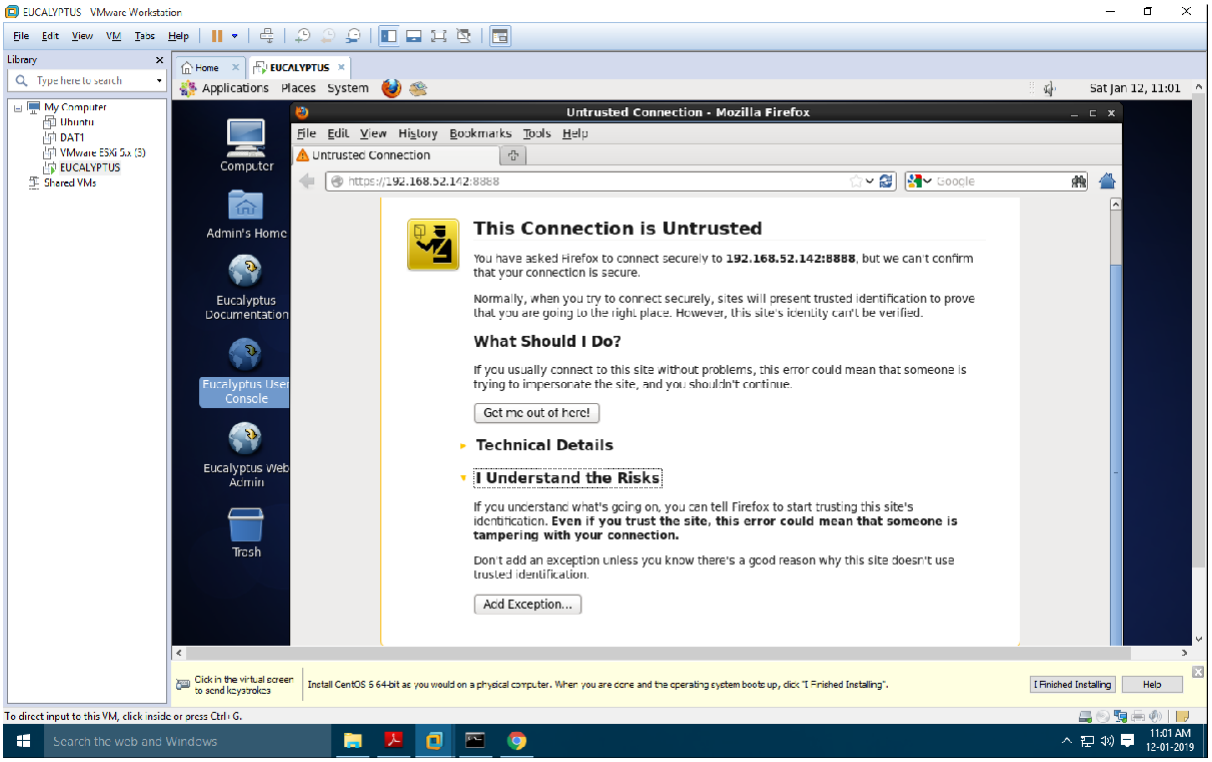

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Welcome
License Information
Create User
Date and Time
Configuration Complete
Create User
You must create a 'username' for regular (non-administrative) use of your system. To create a system 'username', please provide the information requested below.
Username:
Admin
Full Name:
Admin
Password:
Confirm Password:
If you need to use network authentication, such as Kerberos or NIS, please click the Use Network Login button.
Use Network Login...
If you need more control when creating the user (specifying home directory, and/or UID), please click the Advanced button.
Advanced...
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:58 AM
12-01-2019

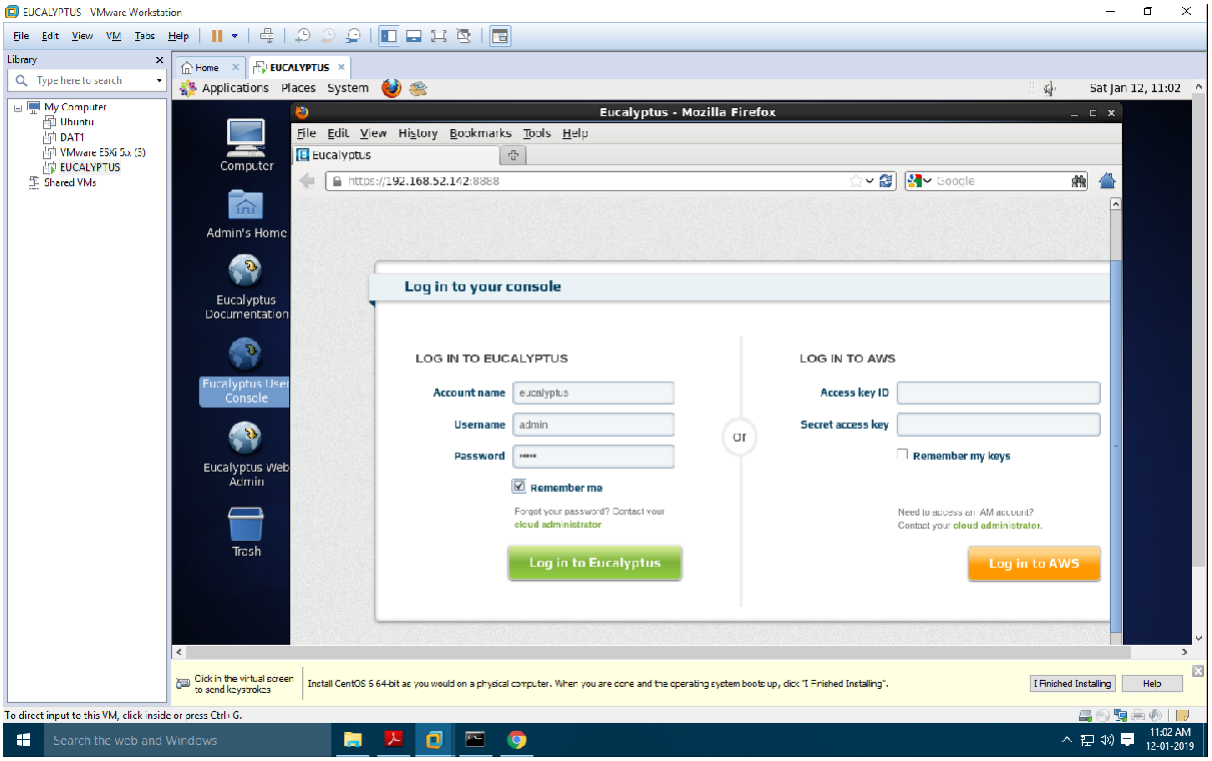

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Create User
Date and Time
Configuration Complete
Please set the date and time for the system.
Date and Time
Current date and time: Sat 12 Jan 2019 10:59:21 AM IST
Synchronize date and time over the network
Synchronize date and time on your computer with a remote time server using the Network Time Protocol:
NTP Servers
0 centos.pool.ntp.org
1 centos.pool.ntp.org
2 centos.pool.ntp.org
Add
Edit
Delete
Advanced Options
Back
Forwa
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:59 AM
12-01-2019

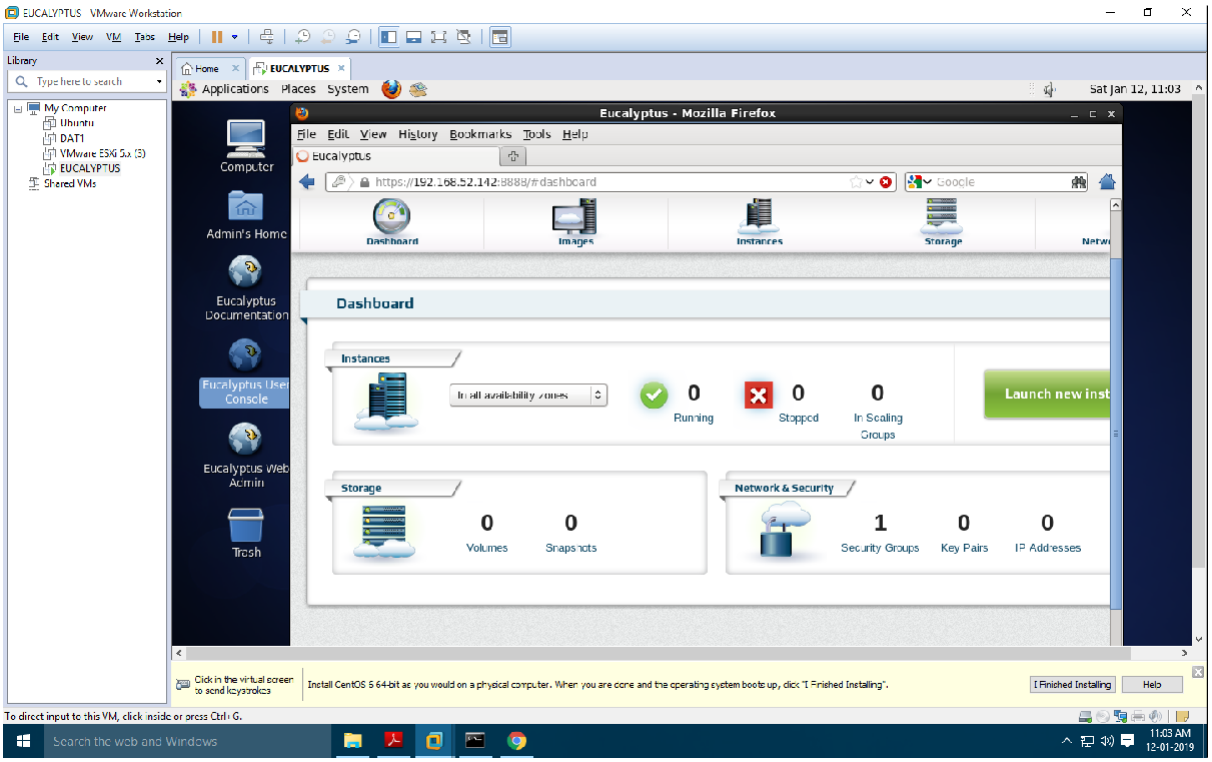

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Create User
Date and Time
Configuration
Complete
local desktop environment on this system, or you can use a web browser
to connect from a remote system. Please make note of the following
login credentials
User Console URL (for managing instances, volumes, etc.):
https://192.168.52.142:8888/
User Credentials:
* Account: demo
* Username: admin
* Password: password
Admin Console URL (for managing user accounts, VM types, etc.):
https://192.168.52.142:8443
Admin Credentials:
* Account: eucalyptus
* Username: admin
* Password: admin
Back
Finish
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
10:59 AM
12-01-2019

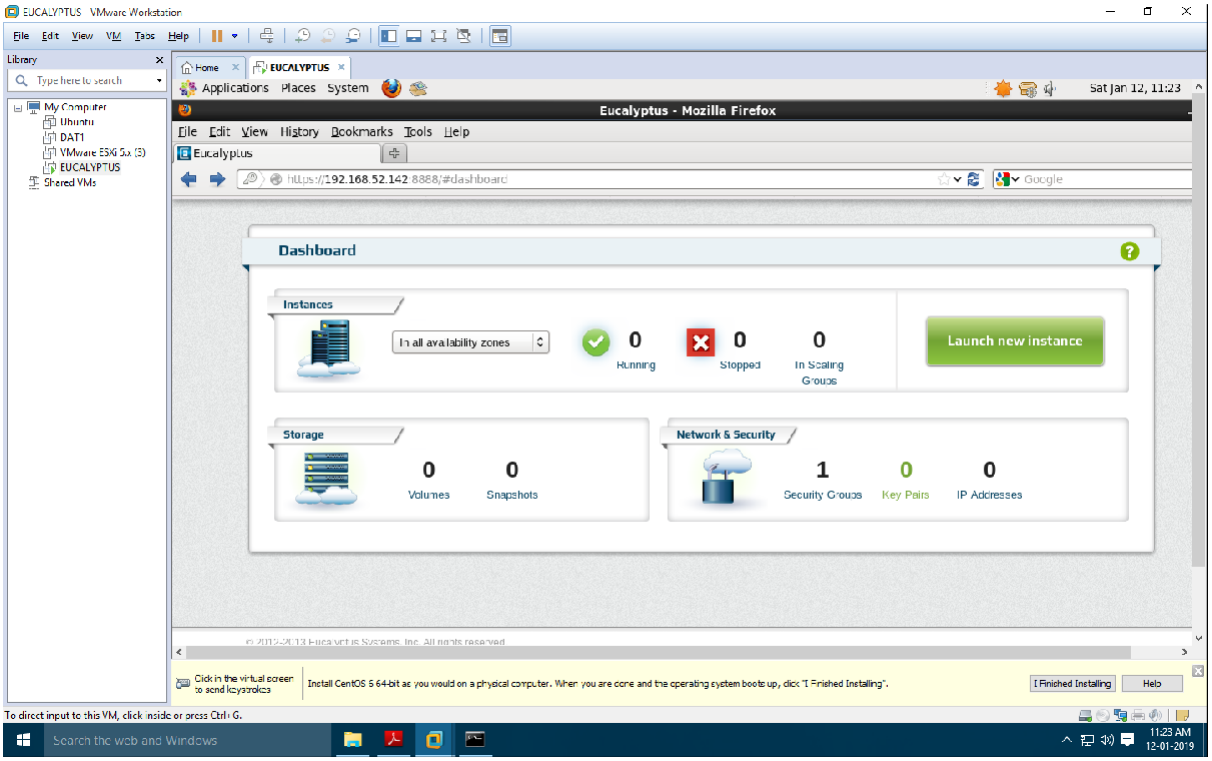

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
CentOS release 6.4 (Final)
Admin
Other...
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
11:00 AM
12-01-2019

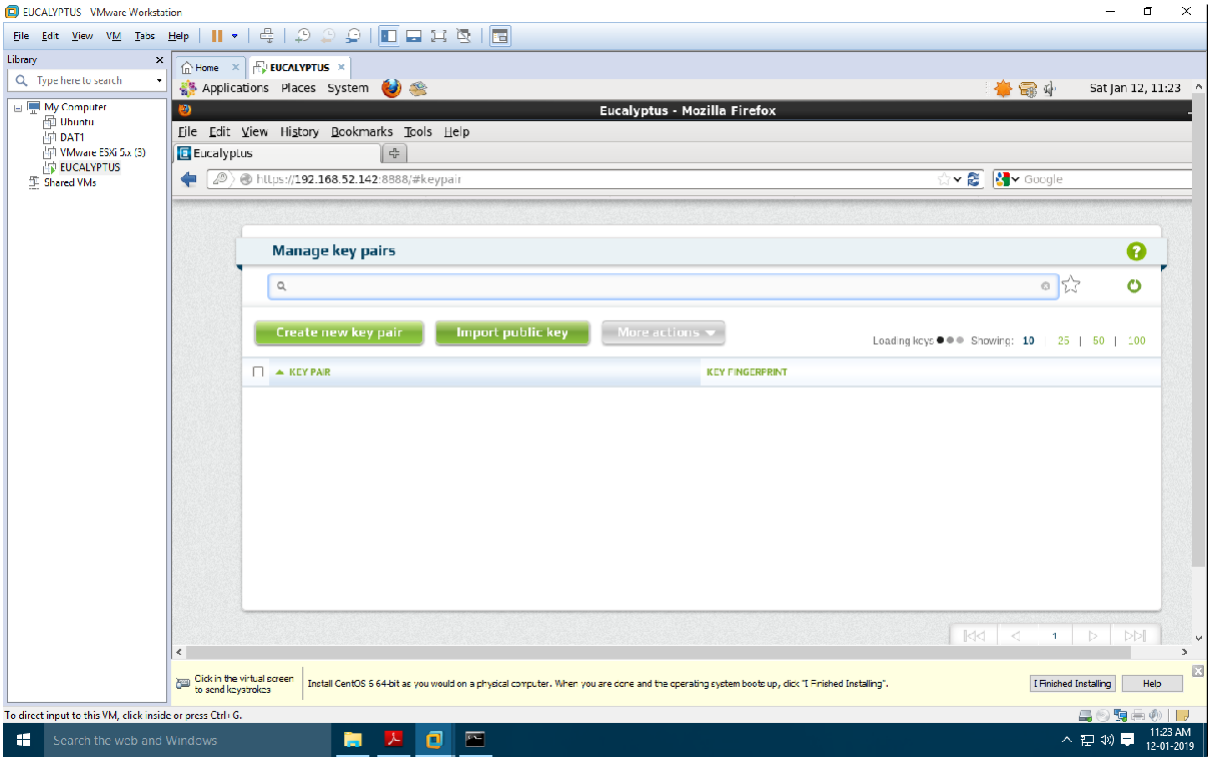

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Applications Places System
Sat Jan 12, 11:01
Computer
Admin's Home
Eucalyptus Documentation
Eucalyptus User Console
Eucalyptus Web Admin
Trash
Click in the virtual screen to send keystrokes
Install CentOS 5 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
11:01 AM
12-01-2019

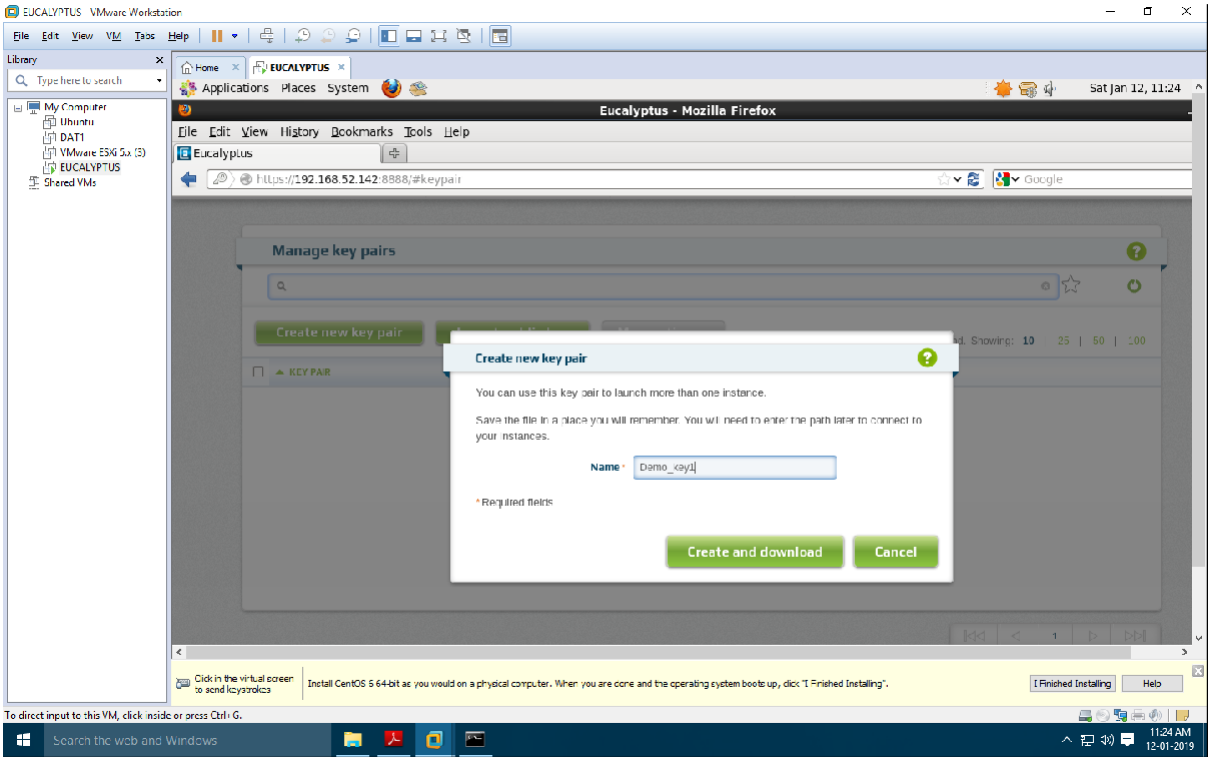

EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Applications Places System
Sat Jan 12, 11:01
Untrusted Connection - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Untrusted Connection
https://192.168.52.142:8888
Google
This Connection is Untrusted
You have asked Firefox to connect securely to 192.168.52.142:8888, but we can't confirm that your connection is secure.
Normally, when you try to connect securely, sites will present trusted identification to prove that you are going to the right place. However, this site's identity can't be verified.
What Should I Do?
If you usually connect to this site without problems, this error could mean that someone is trying to impersonate the site, and you shouldn't continue.
Get me out of here!
Technical Details
I Understand the Risks
If you understand what's going on, you can tell Firefox to start trusting this site's identification. Even if you trust the site, this error could mean that someone is tampering with your connection.
Don't add an exception unless you know there's a good reason why this site doesn't use trusted identification.
Add Exception...
Computer
Admin's Home
Eucalyptus Documentation
Eucalyptus User Console
Eucalyptus Web Admin
Trash
Click in the virtual screen to send keystrokes
Install CentOS 5 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
11:01 AM
12-01-2019

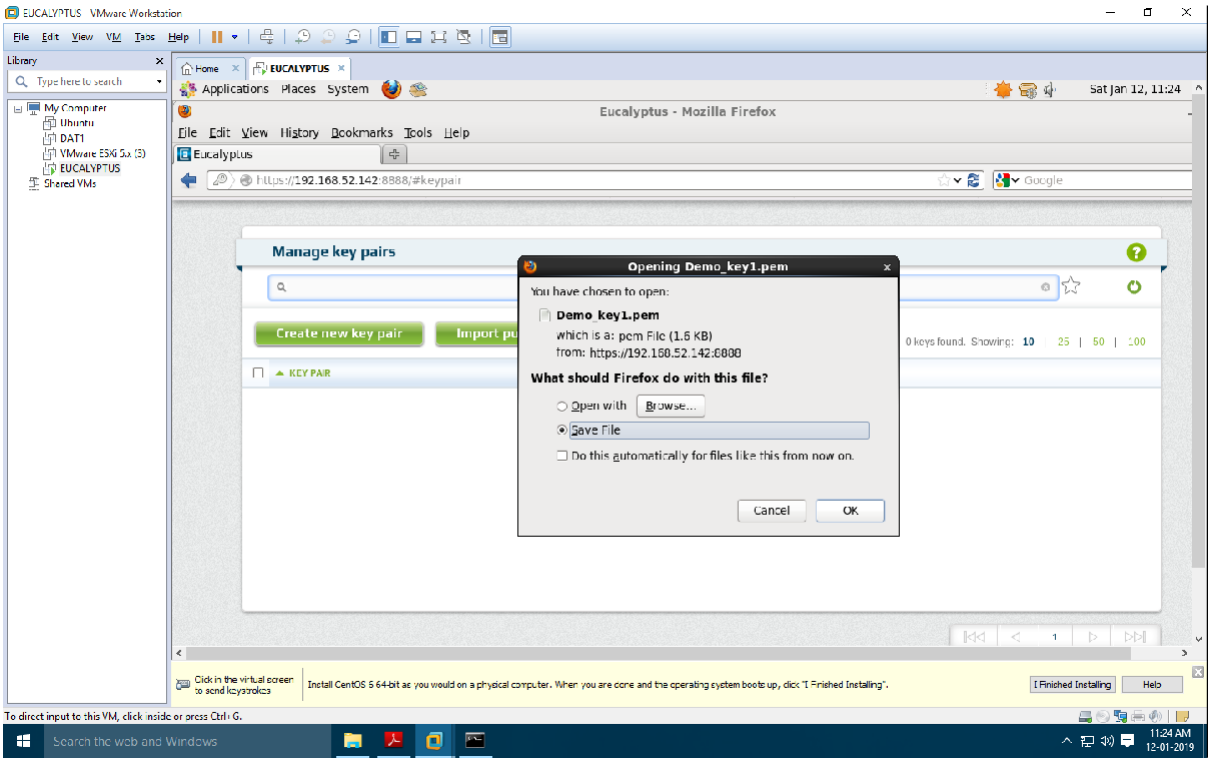

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Log in to your console
LOG IN TO EUCALYPTUS
Account name
Username
Password
Remember me
Log in to Eucalyptus
LOG IN TO AWS
Access key ID
Secret access key
Remember my keys
Log in to AWS
Sat Jan 12, 11:02

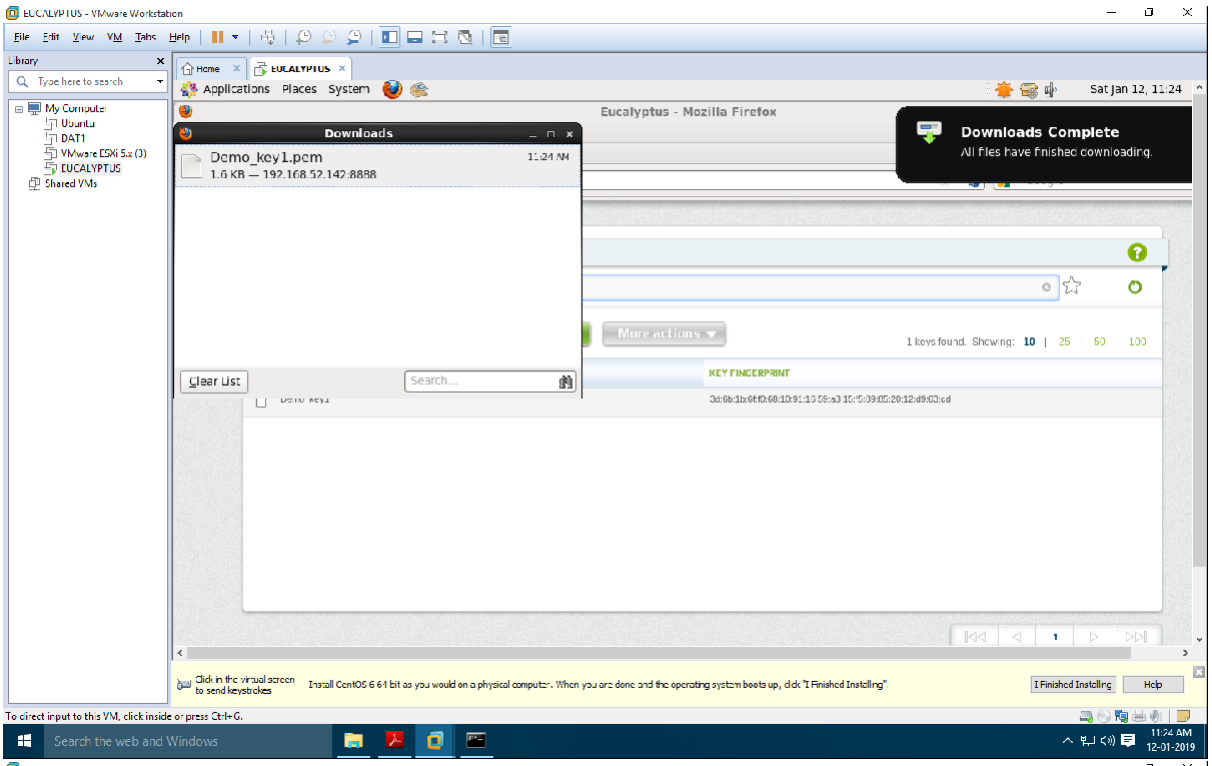

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Dashboard
Instances
Storage
Network & Security
Launch new inst
Running
Stopped
Volumes
Snapshots
Security Groups
Key Pairs
IP Addresses
Sat Jan 12, 11:03

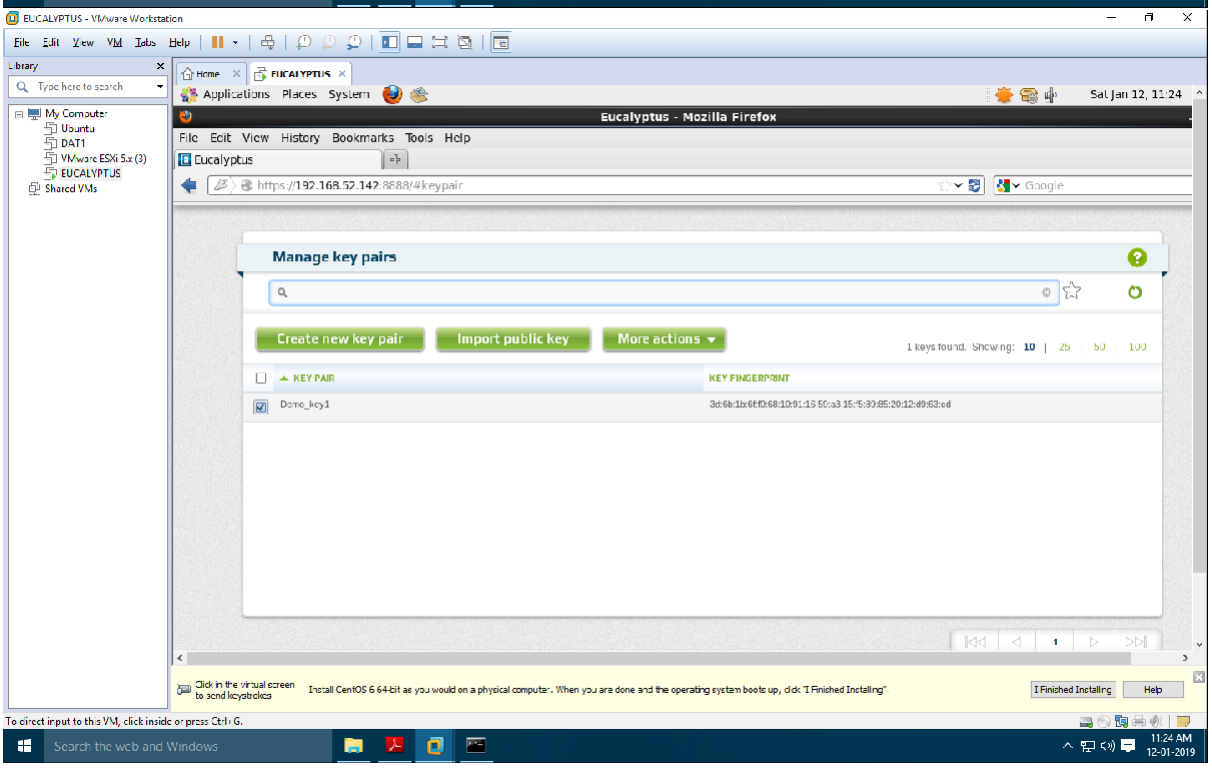

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Dashboard
Instances
In all availability zones
0
Running
0
Stopped
0
In Scaling Groups
Launch new instance
Storage
0
Volumes
0
Snapshots
Network & Security
1
Security Groups
0
Key Pairs
0
IP Addresses

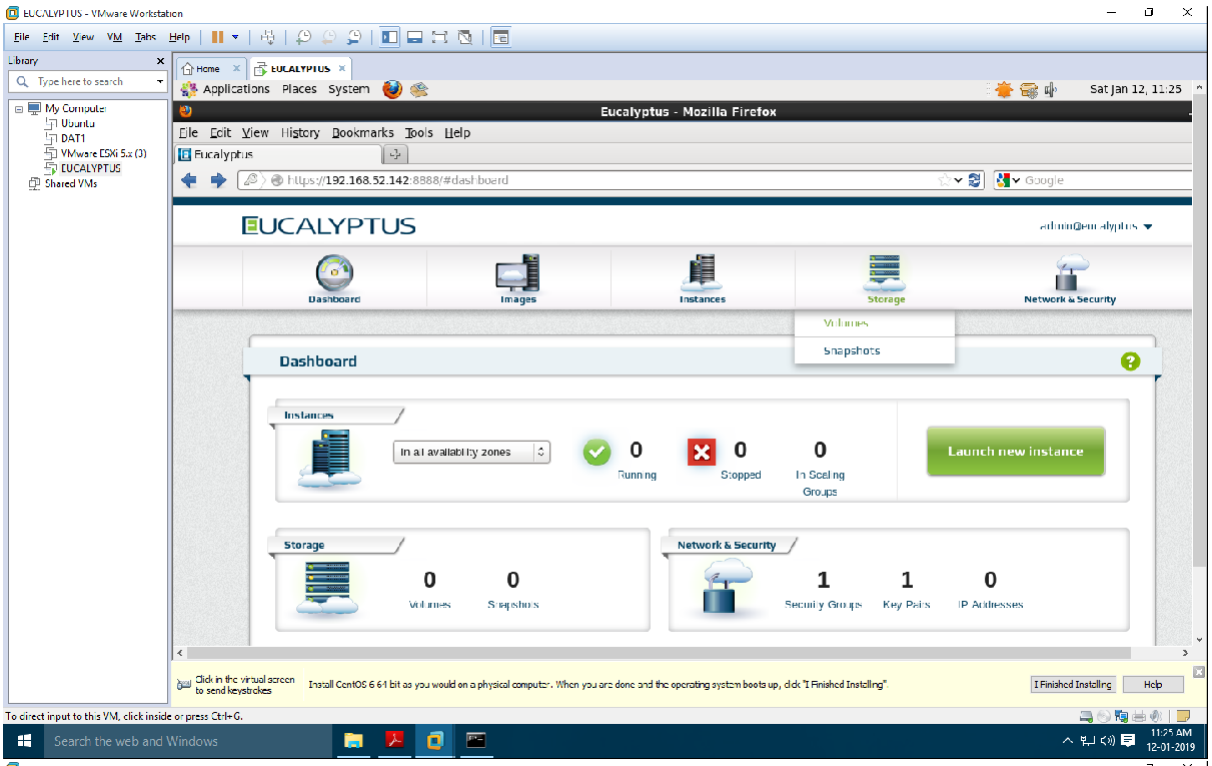

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Manage key pairs
Create new key pair
Import public key
More actions
KEY PAIR
KEY FINGERPRINT

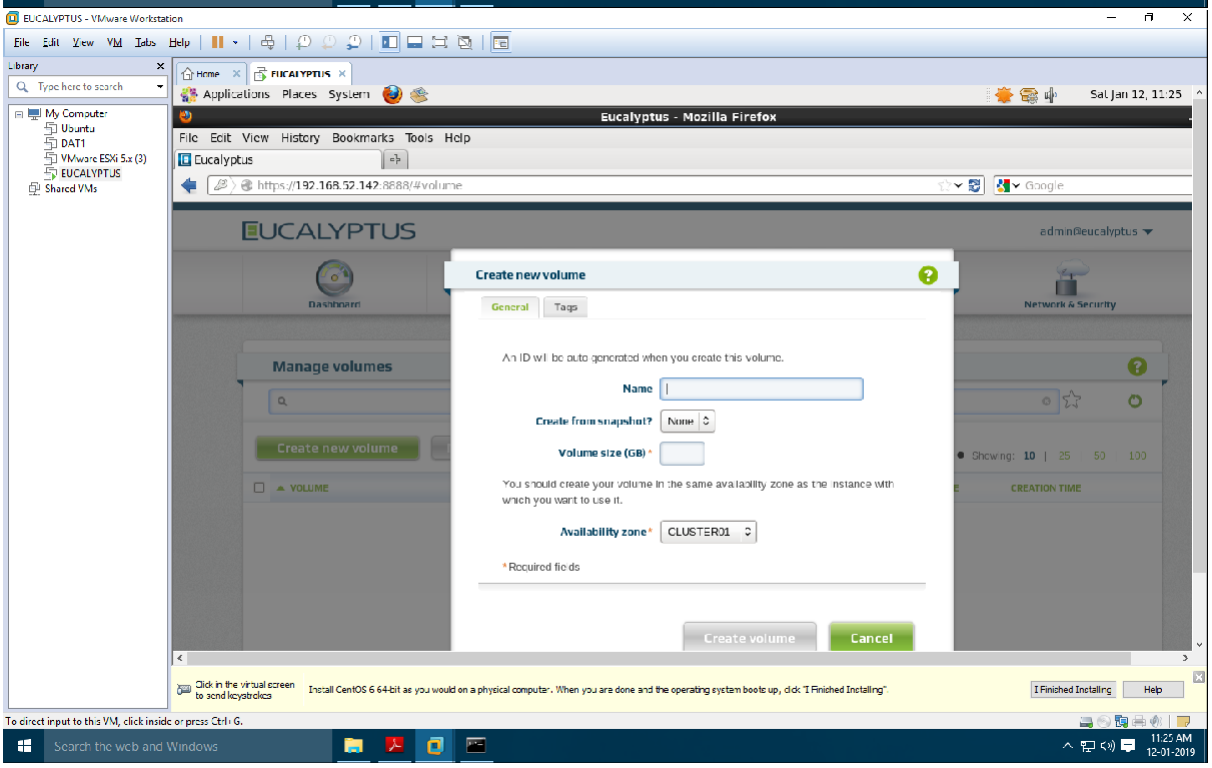

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Manage key pairs
Create new key pair
Create new key pair
You can use this key pair to launch more than one instance.
Save the file in a place you will remember. You will need to enter the path later to connect to your instances.
Name * Demo_key1
* Required fields
Create and download
Cancel
Install CentOS 5 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Help

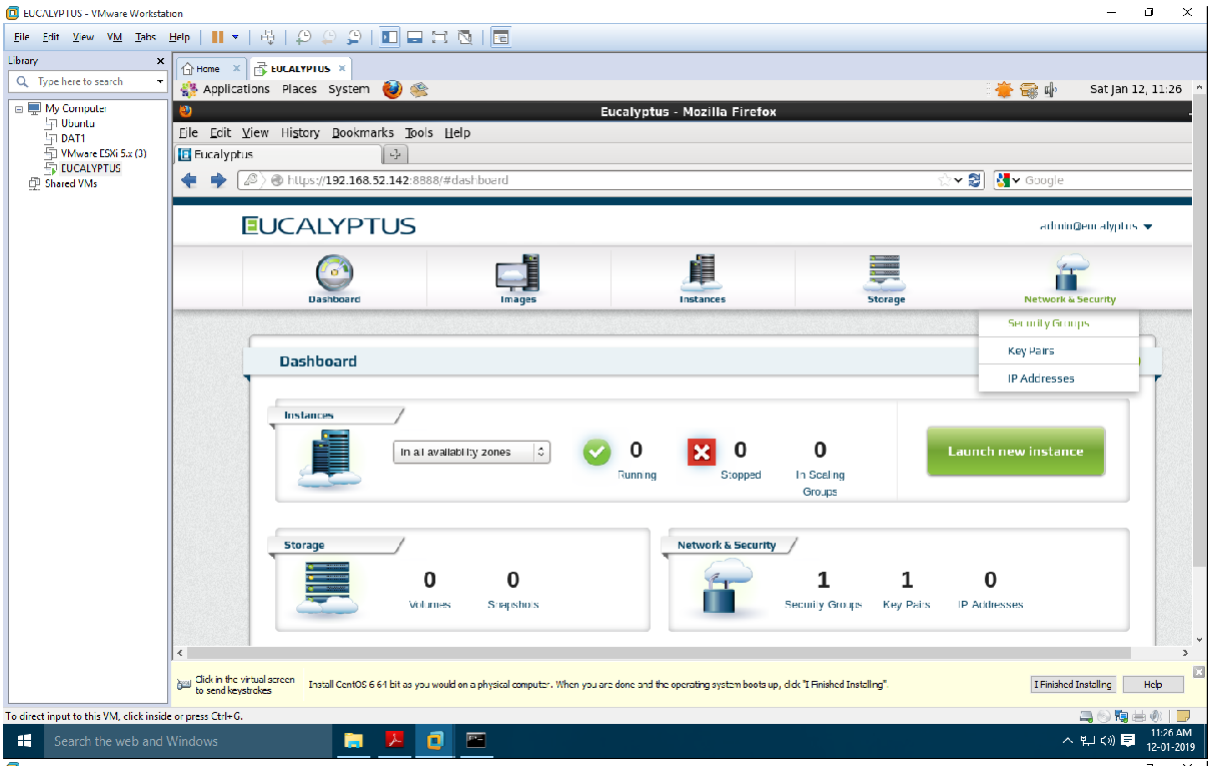

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Manage key pairs
Opening Demo_key1.pem
You have chosen to open:
Demo_key1.pem
which is a: pem File (1.6 KB)
from: https://192.168.52.142:8888
What should Firefox do with this file?
Open with
Browse...
Save File
Do this automatically for files like this from now on.
Cancel
OK
Create new key pair
Install CentOS 5 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing".
I Finished Installing
Help

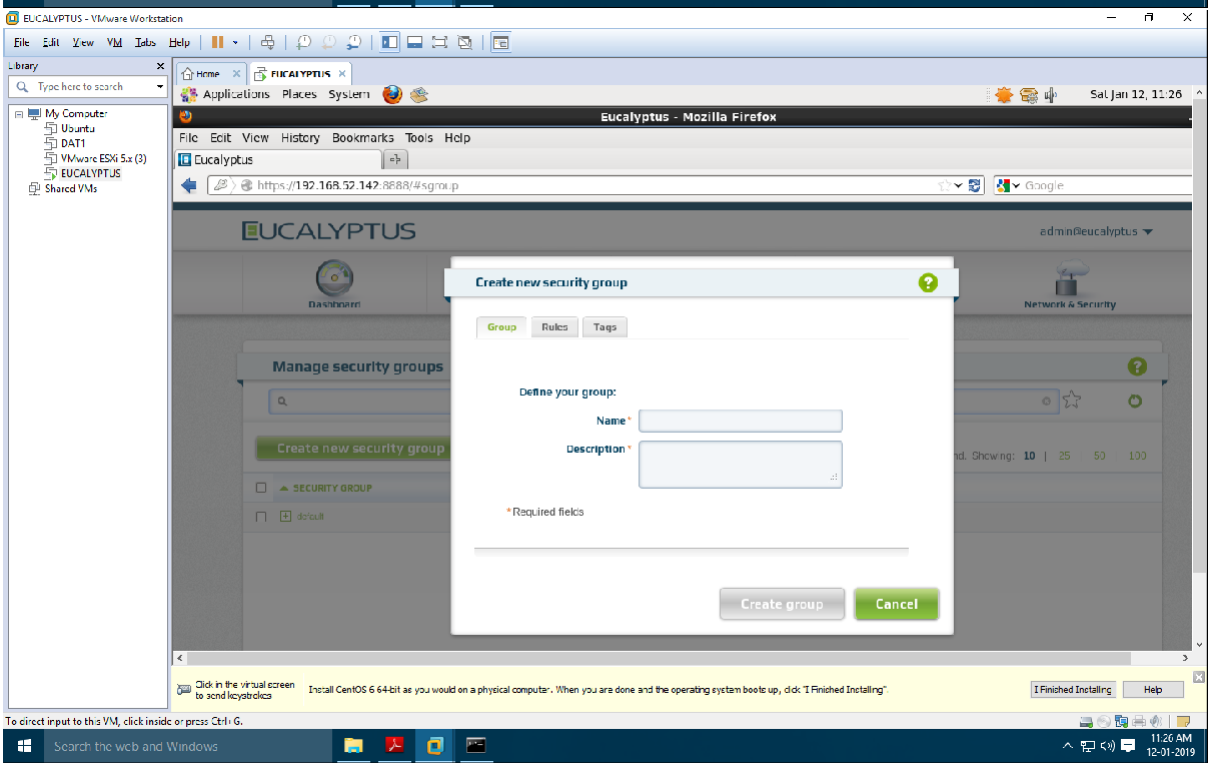

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Downloads
Demo_key1.pem
1.6 KB — 192.168.52.142:8888
Downloads Complete
All files have finished downloading.
Clear List
Search...
KEY FINGERPRINT
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
Search the web and Windows

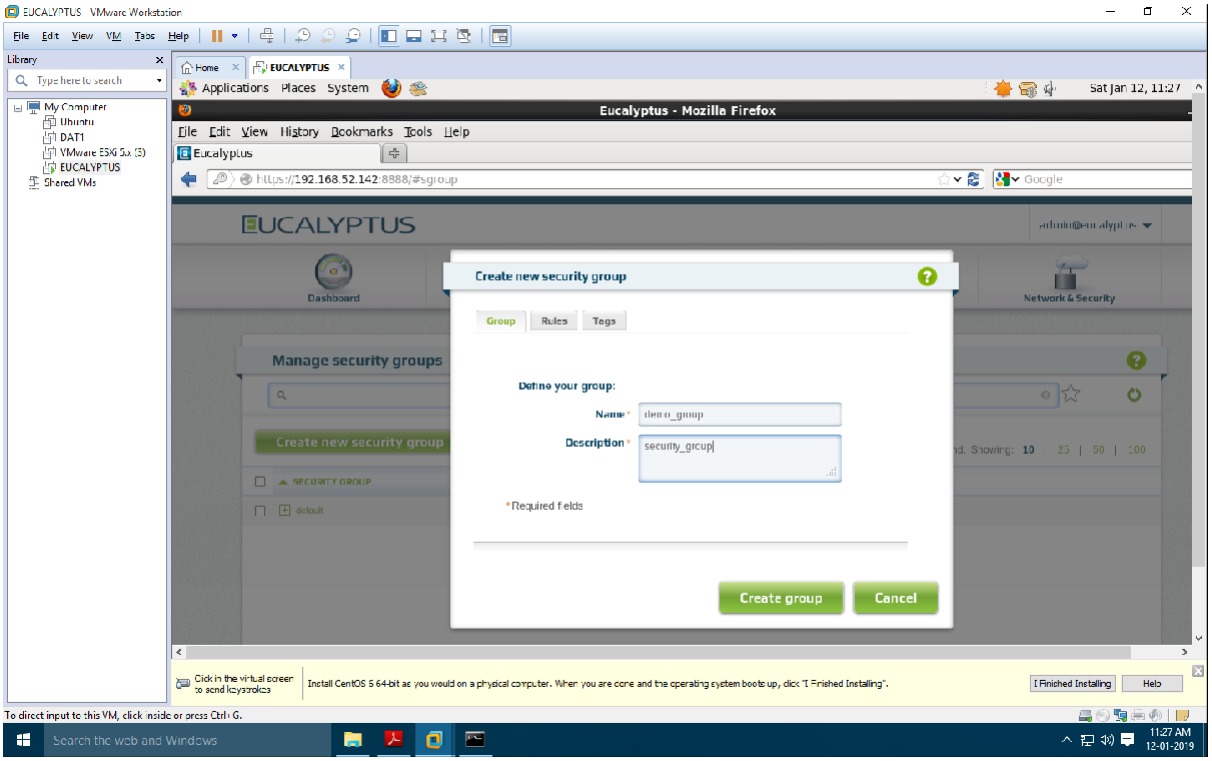

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Manage key pairs
Create new key pair
Import public key
More actions
KEY PAIR
KEY FINGERPRINT
Demo_key1
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
Search the web and Windows

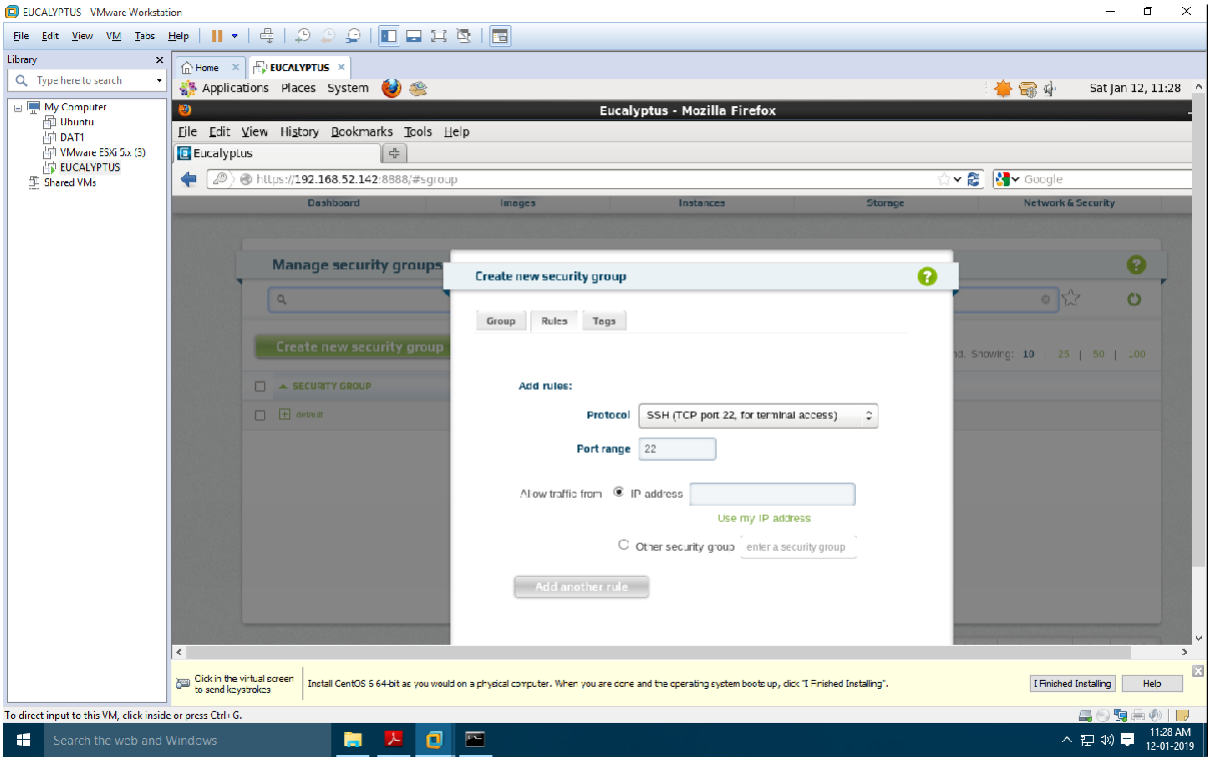

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
EUCALYPTUS
Dashboard
Images
Instances
Storage
Network & Security
Snapshots
Launch new instance
Running
Stopped
Security Groups
Key Pairs
IP Addresses

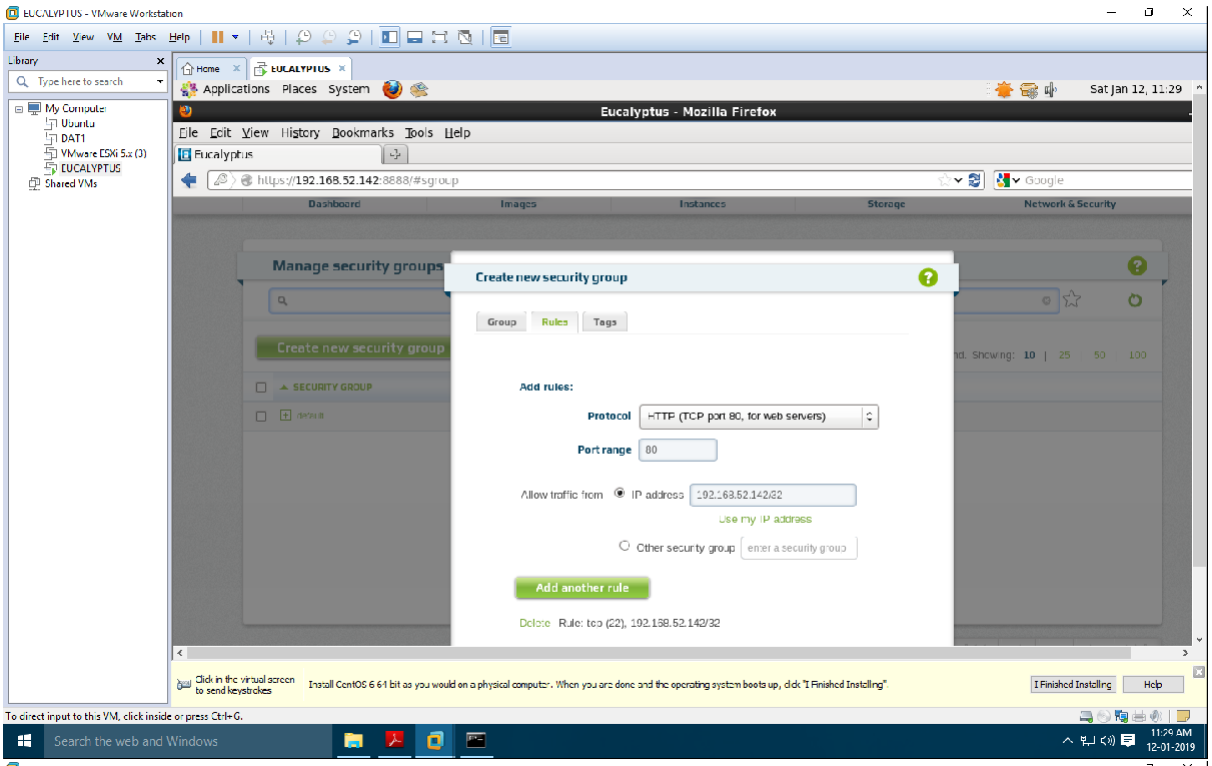

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
EUCALYPTUS
Create new volume
General
Tags
Name
Volume size (GB)
Availability zone
CLUSTER01
Required fields
Create volume
Cancel
Manage volumes

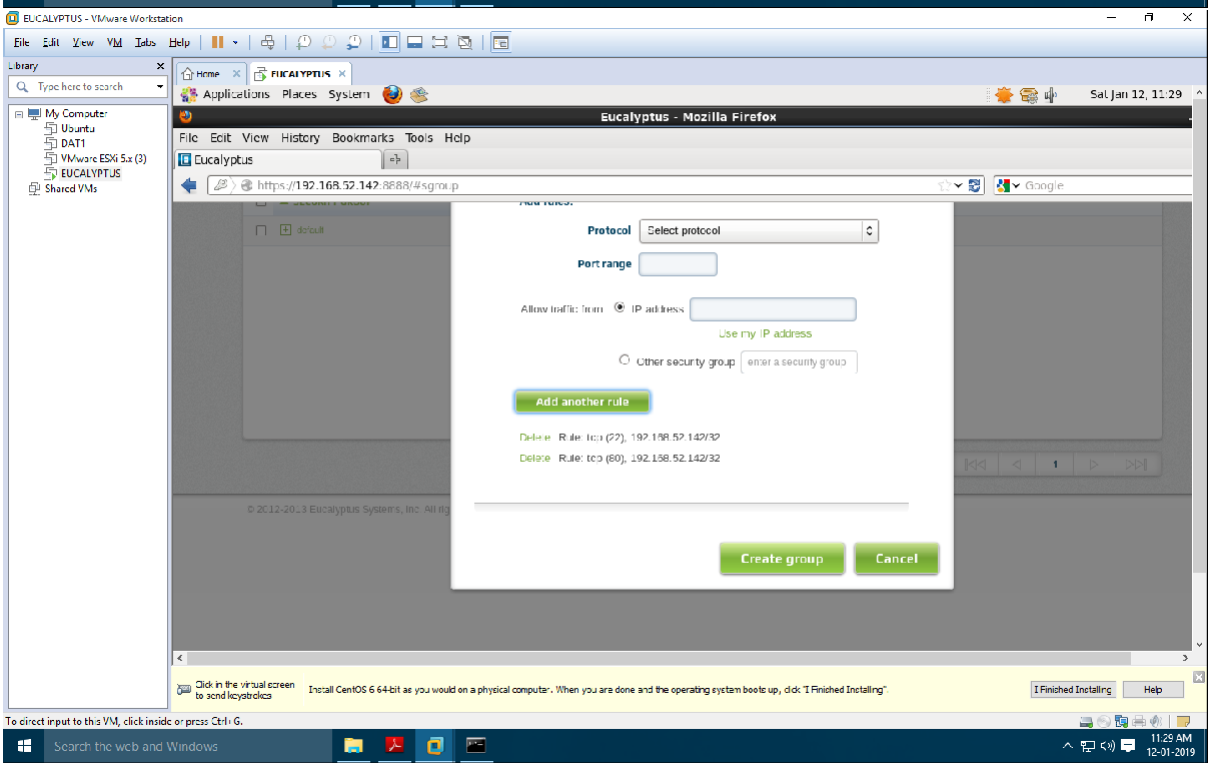

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
EUCALYPTUS
Dashboard
Images
Instances
Storage
Network & Security
Key Pairs
IP Addresses
Launch new instance
Running
Stopped
Volumes
Snapshots
Security Groups
Key Pairs
IP Addresses
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help

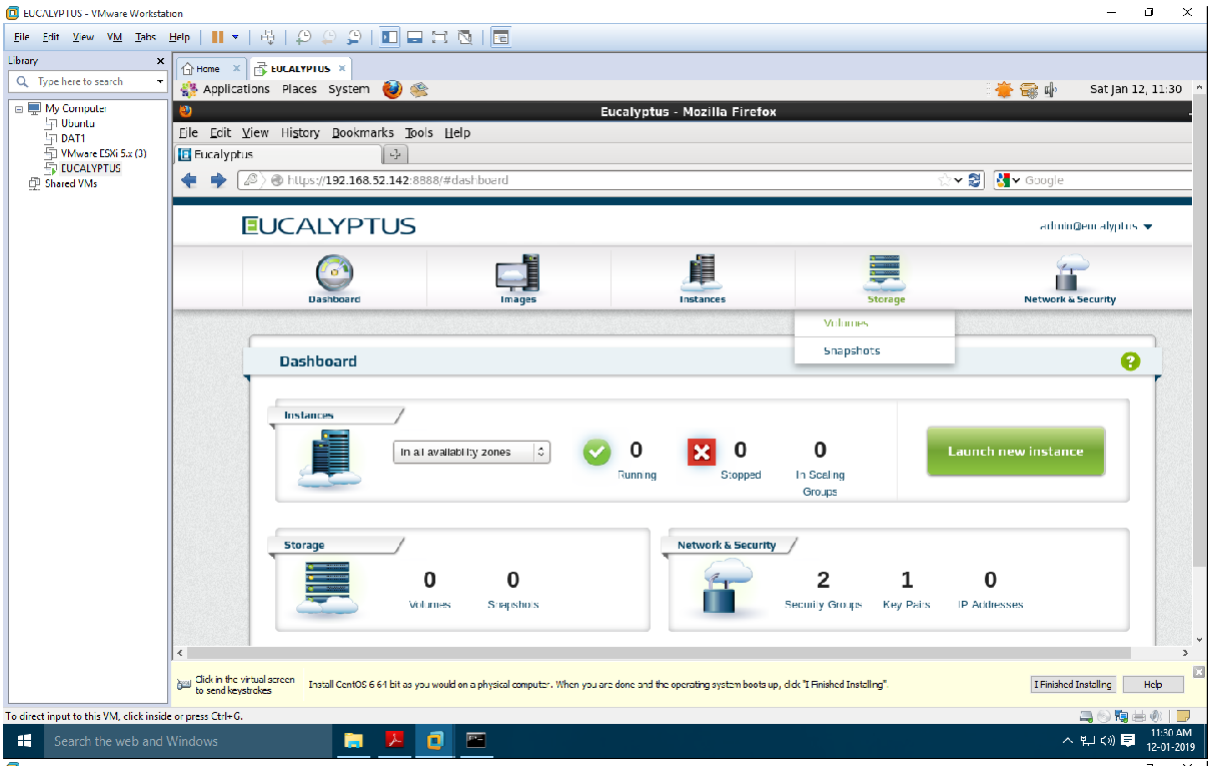

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
EUCALYPTUS
Manage security groups
Create new security group
Define your group:
Name *
Description *
*Required fields
Create group
Cancel
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help

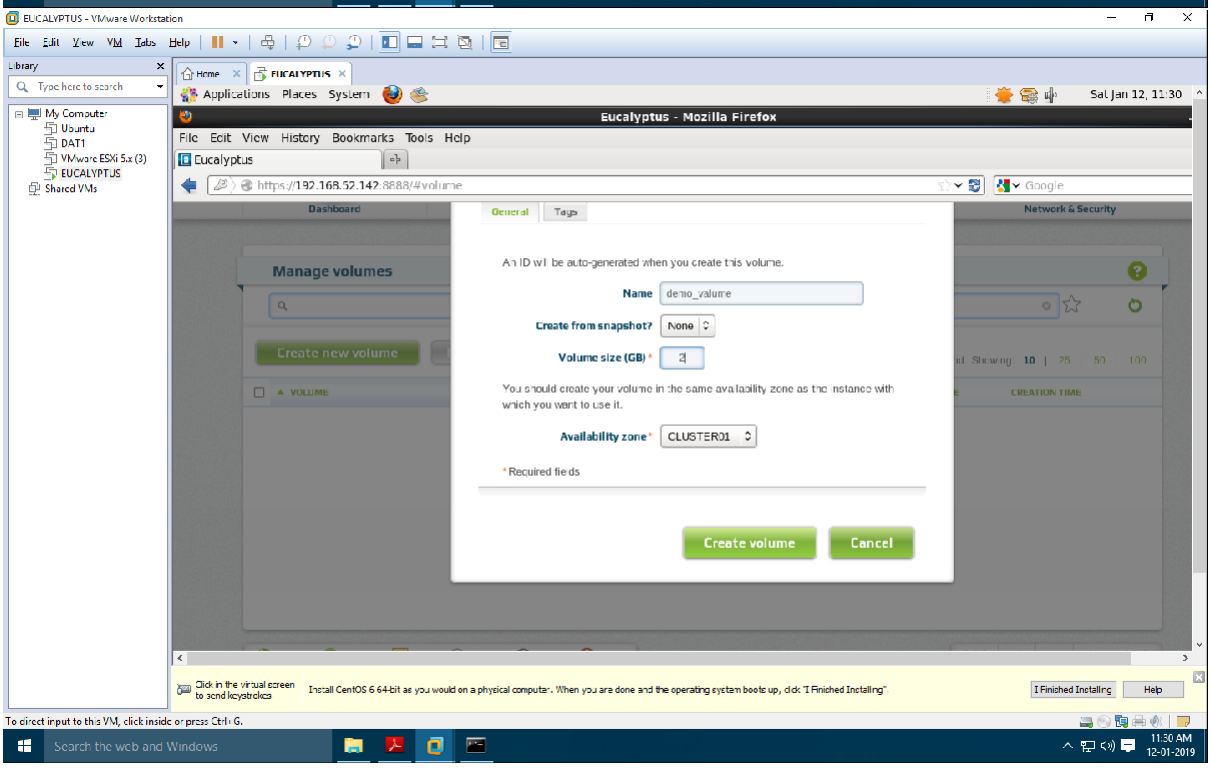

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
EUCALYPTUS
Dashboard
Network & Security
Manage security groups
Create new security group
Group
Rules
Tags
Define your group:
Name *
demo_group
Description *
security_group
*Required fields
Create group
Cancel

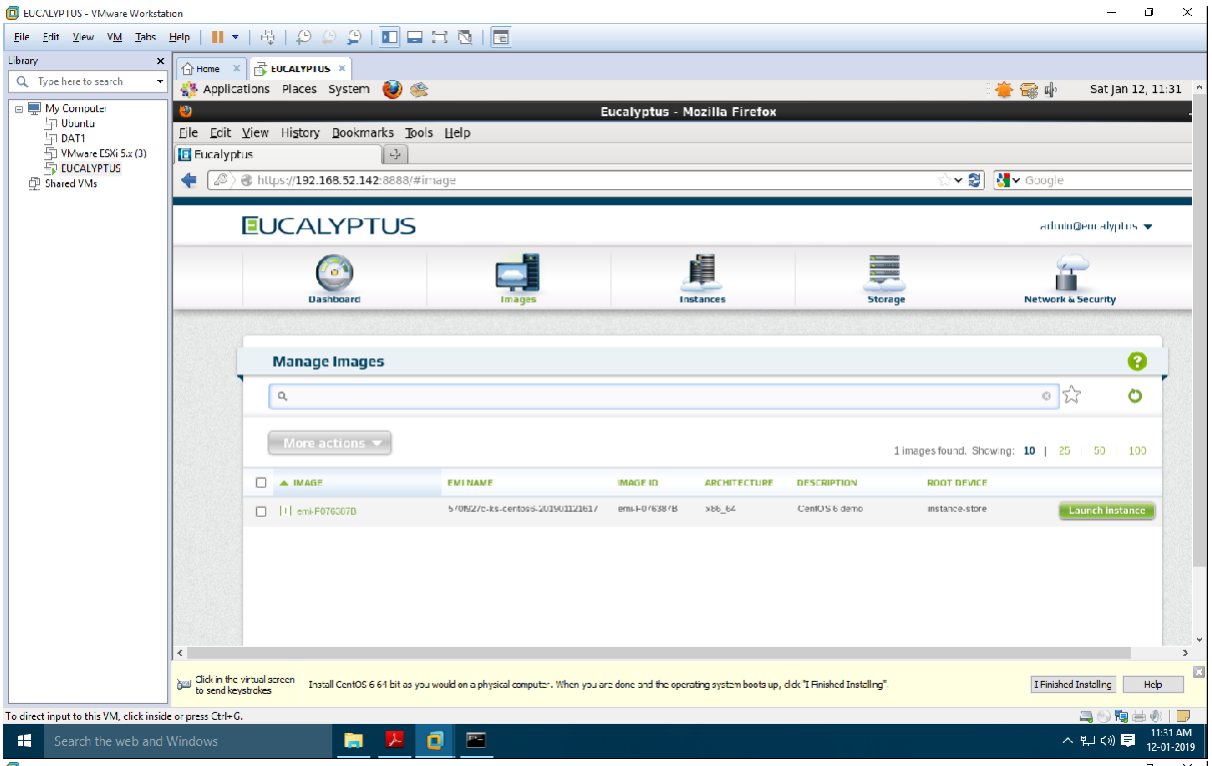

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Dashboard
Images
Instances
Storage
Network & Security
Manage security groups
Create new security group
Group
Rules
Tags
Add rules:
Protocol
SSH (TCP port 22, for terminal access)
Port range
22
Allow traffic from
IP address
Use my IP address
Other security group
enter a security group
Add another rule

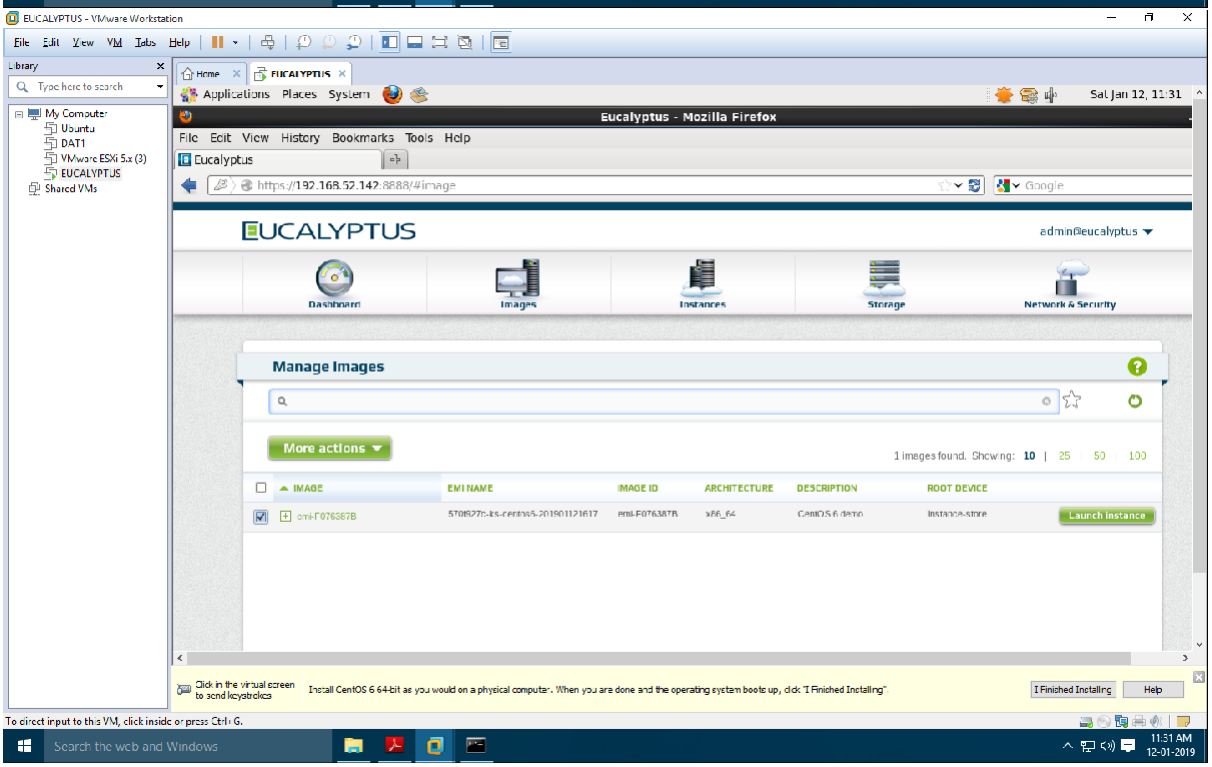

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Manage security groups
Create new security group
Group
Rules
Tags
Add rules:
Protocol
HTTP (TCP port 80, for web servers)
Port range
80
Allow traffic from
IP address
192.168.52.142/32
Use my IP address
Other security group
enter a security group
Add another rule
Delete Rule: tcp (22), 192.168.52.142/32
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
11:29 AM
12-01-2019

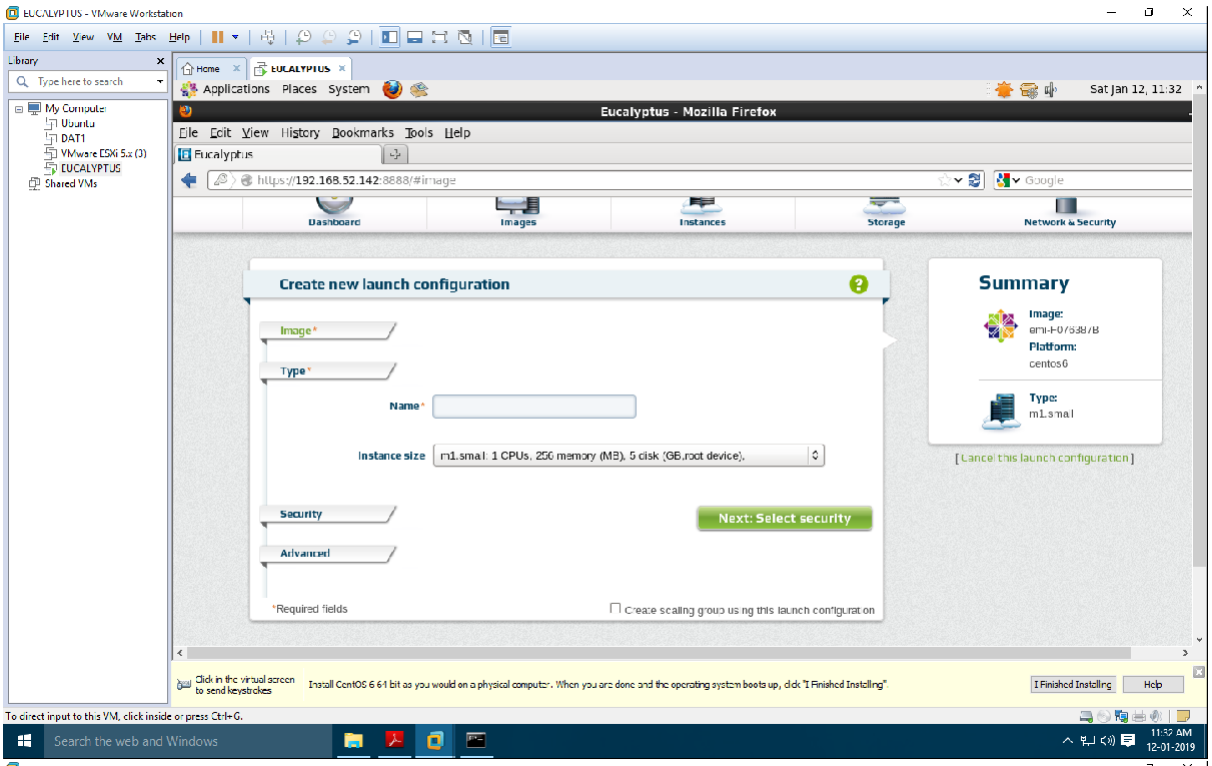

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Protocol
Select protocol
Port range
Allow traffic from
IP address
Use my IP address
Other security group
enter a security group
Add another rule
Delete Rule: tcp (22), 192.168.52.142/32
Delete Rule: tcp (80), 192.168.52.142/32
Create group
Cancel
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
11:29 AM
12-01-2019

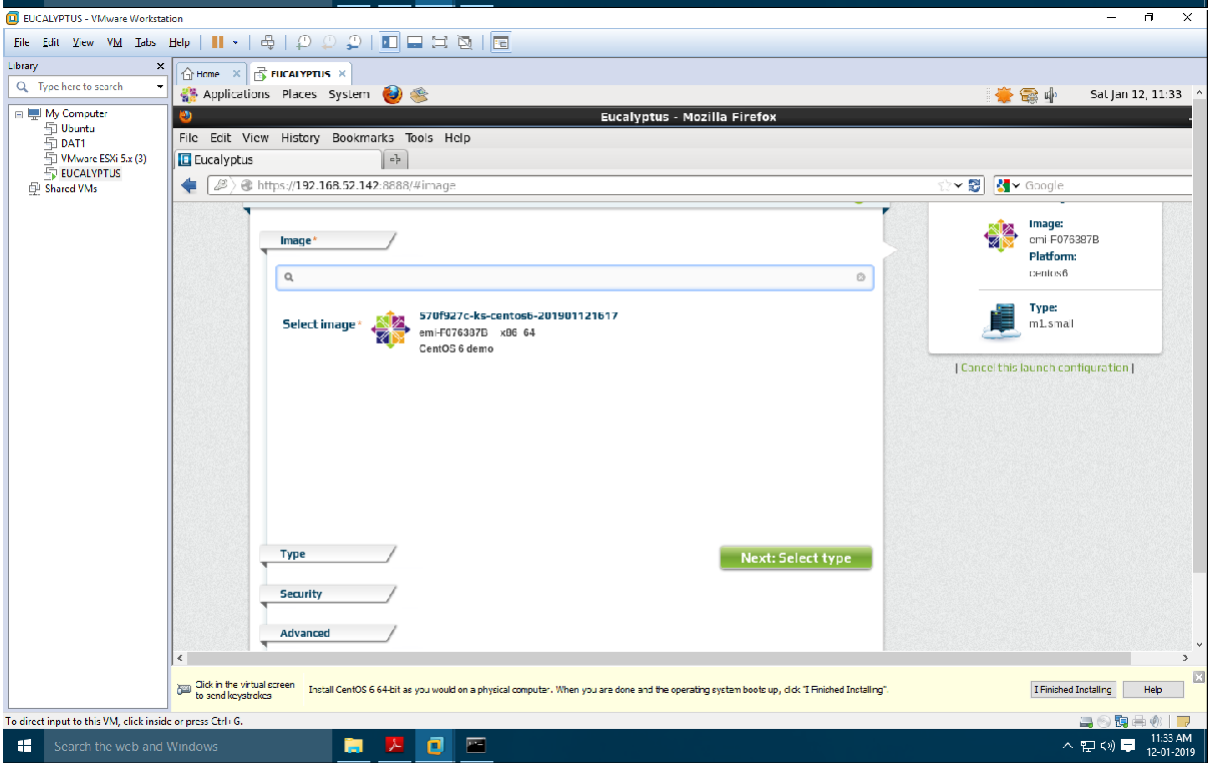

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
EUCALYPTUS
Dashboard
Images
Instances
Storage
Network & Security
Volumes
Snapshots
Launch new instance
Running
Stopped
In Scaling Groups
Volumes
Snapshots
Security Groups
Key Pairs
IP Addresses
I Finished Installing
Help

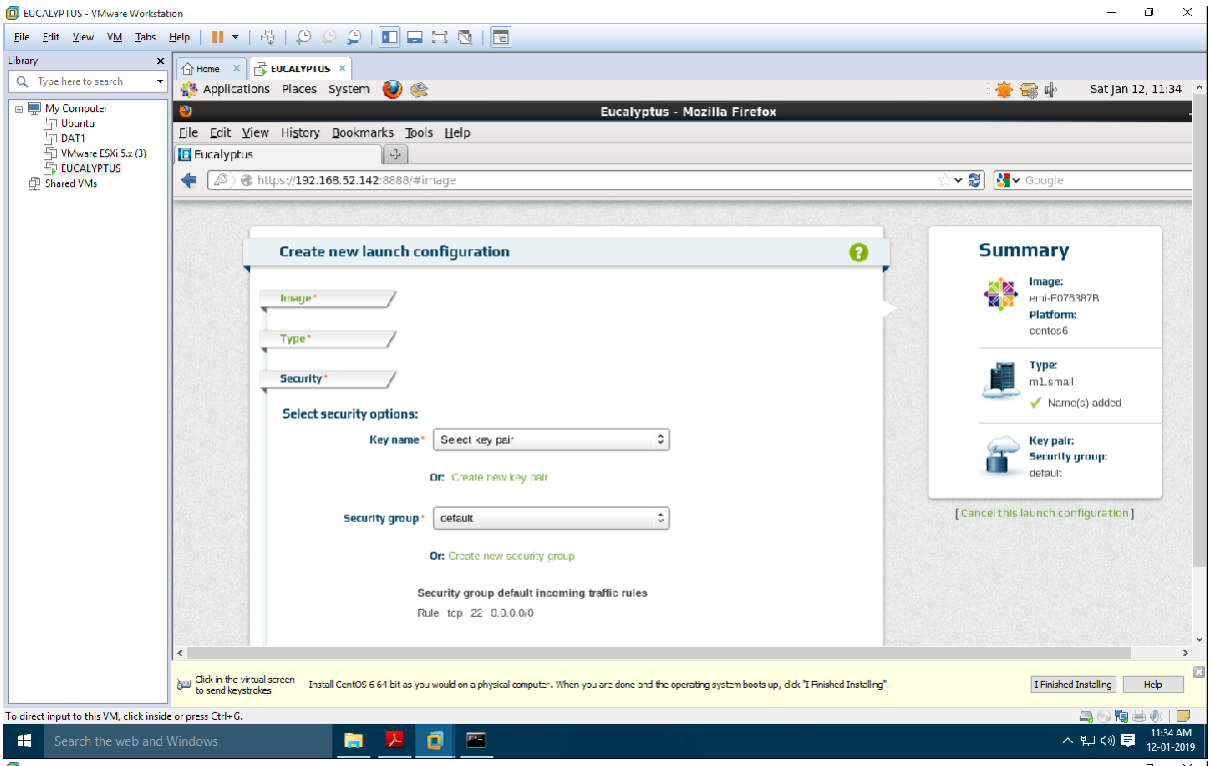

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Manage volumes
Create new volume
General
Tags
An ID will be auto-generated when you create this volume.
Name
demo_volume
Create from snapshot?
None
Volume size (GB) *
You should create your volume in the same availability zone as the instance with which you want to use it.
Availability zone *
CLUSTER01
* Required fields
Create volume
Cancel
I Finished Installing
Help

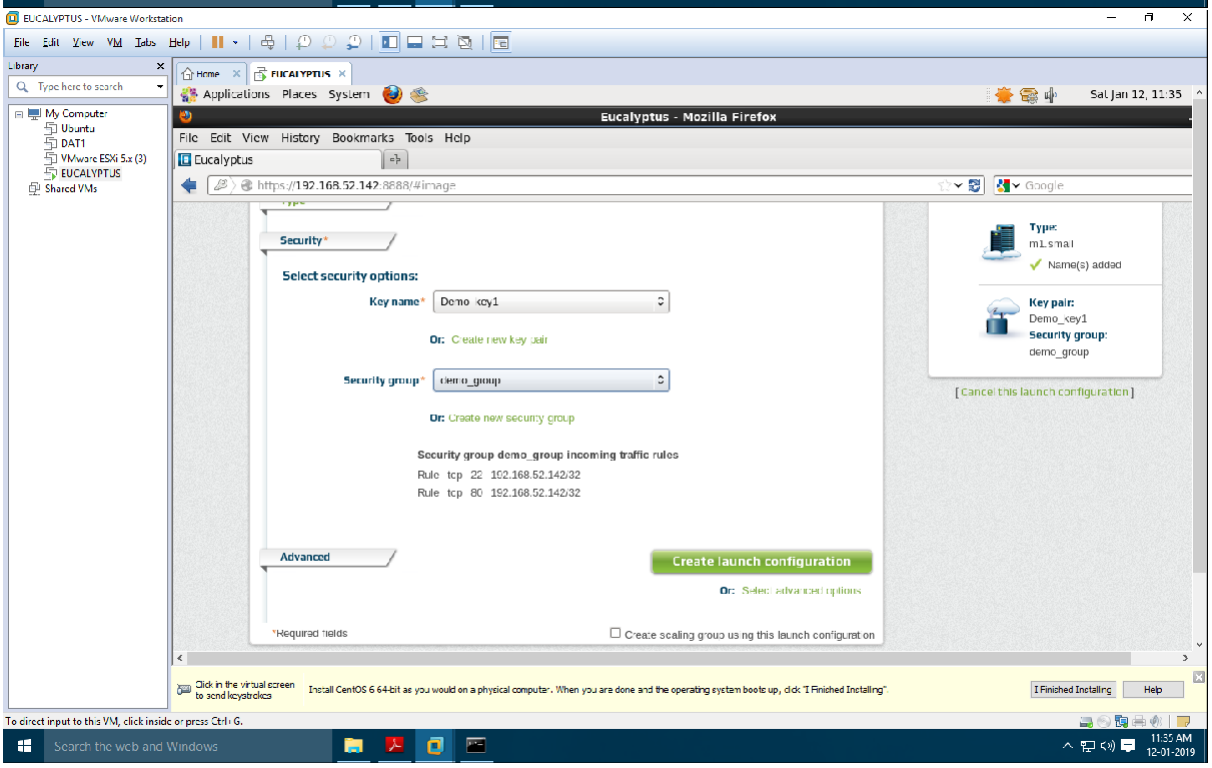

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
EUCALYPTUS
Dashboard
Images
Instances
Storage
Network & Security
Manage Images
More actions
Launch instance
I Finished Installing
Help


EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
EUCALYPTUS
Dashboard
Images
Instances
Storage
Network & Security
Manage Images
More actions
Launch instance
I Finished Installing
Help


EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Create new launch configuration
Image *
Type *
Name *
Instance size
m1.small: 1 CPUs, 256 memory (MB), 5 disk (GB,root device).
Security
Advanced
Next: Select security
*Required fields
Summary
Image:
Platform:
centos6
Type:
m1.small
[Cancel this launch configuration]
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows


EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Image *
Select image *
570f927c-ks-centos6-201901121617
emi-F076337B x86_64
CentOS 6 demo
Type
Security
Advanced
Next: Select type
Image:
Platform:
Type:
m1.small
[Cancel this launch configuration]
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows


EUCALYPTUS - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Applications Places System
Sat Jan 12, 11:34
Eucalyptus - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Eucalyptus
https://192.168.52.142:8888/#image
Google
Create new launch configuration
Image *
Type *
Security *
Select security options:
Key name * Select key pair
Or: Create new key pair
Security group * default
Or: Create new security group
Security group default incoming traffic rules
Rule tcp 22 0.0.0.0/0
Summary
Image:
emi-F07B3R7R
Platform:
centos6
Type:
m1.small
None(s) added
Key pair:
Security group:
default
[Cancel this launch configuration]
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
11:34 AM
12-01-2019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Type here to search
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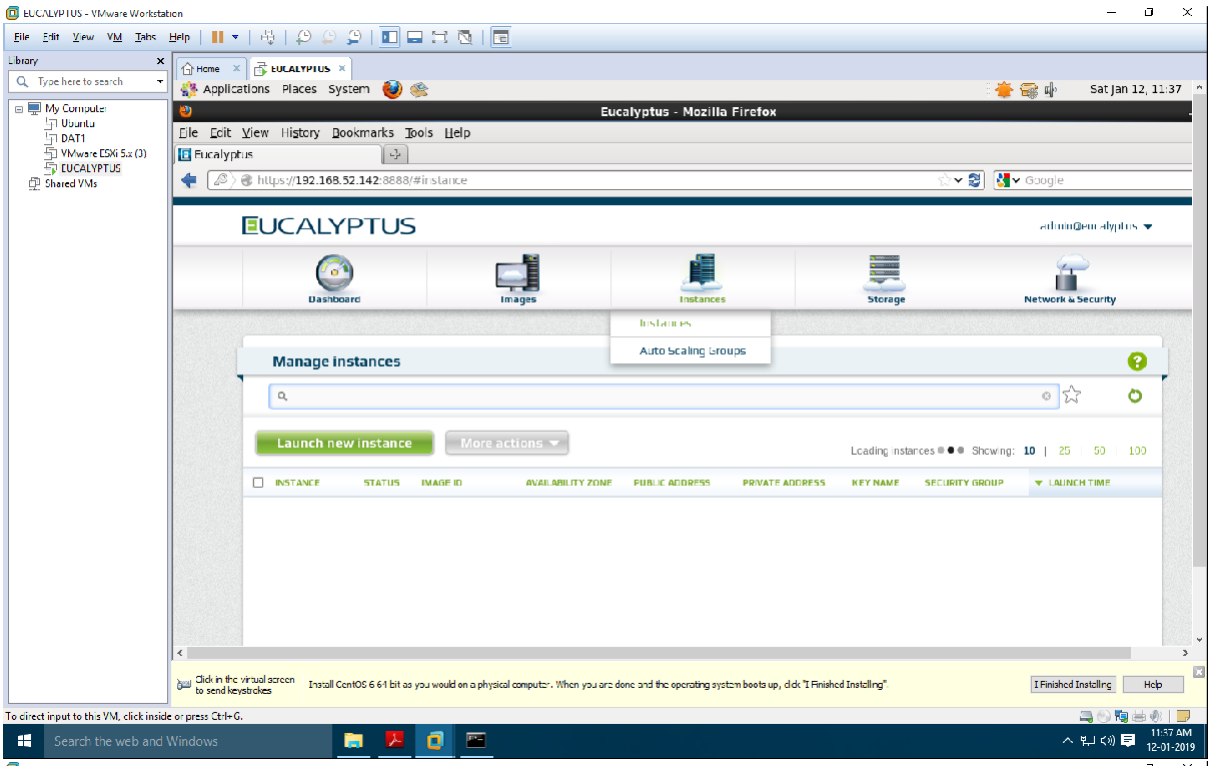
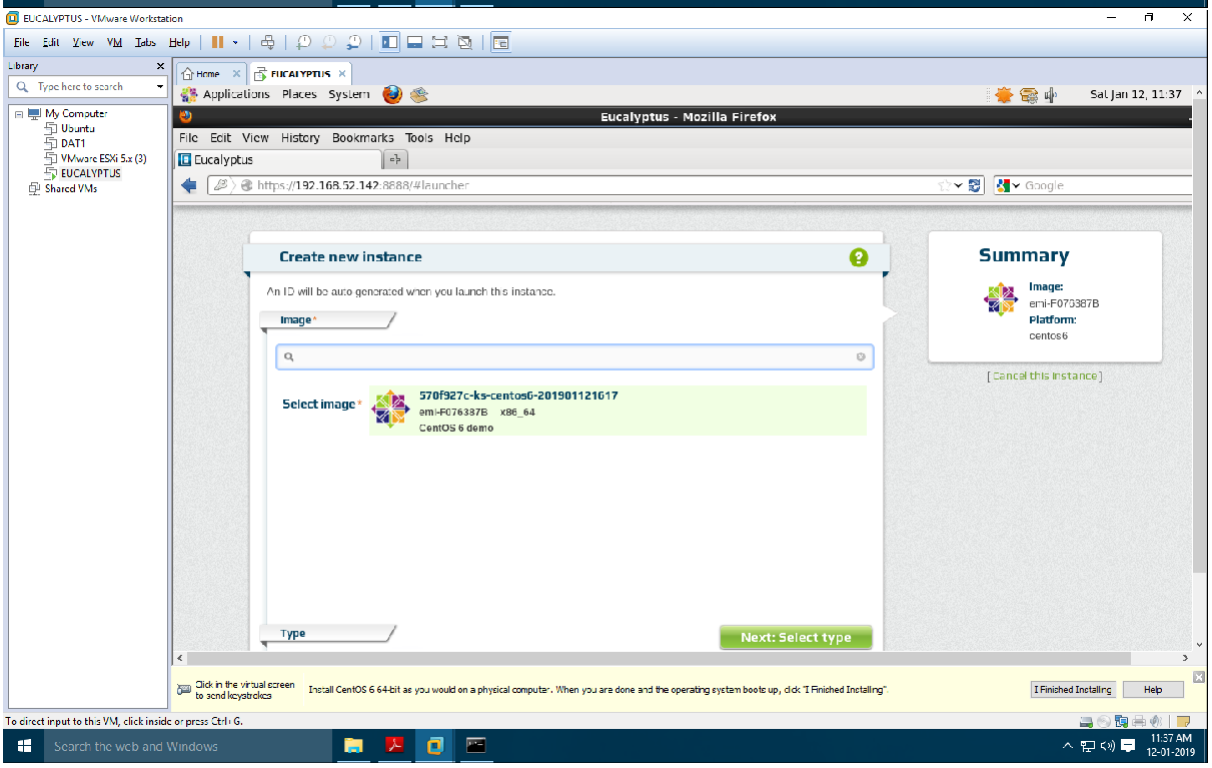
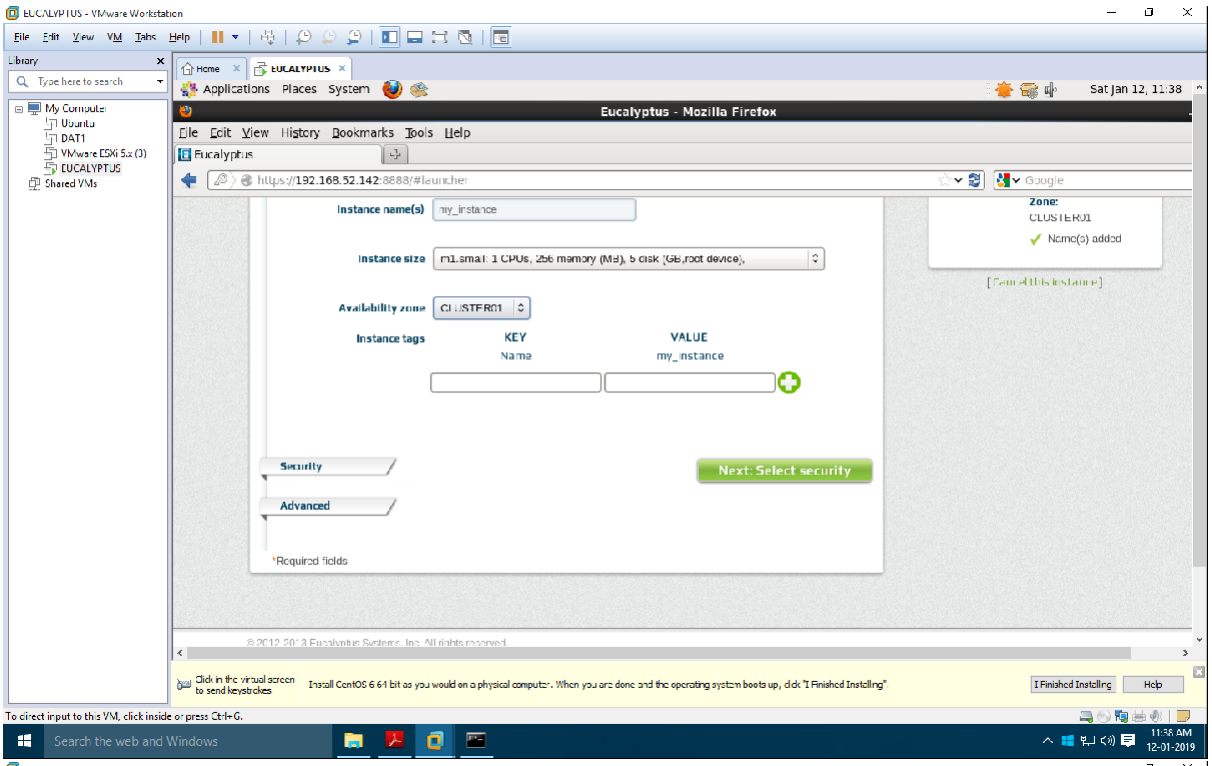
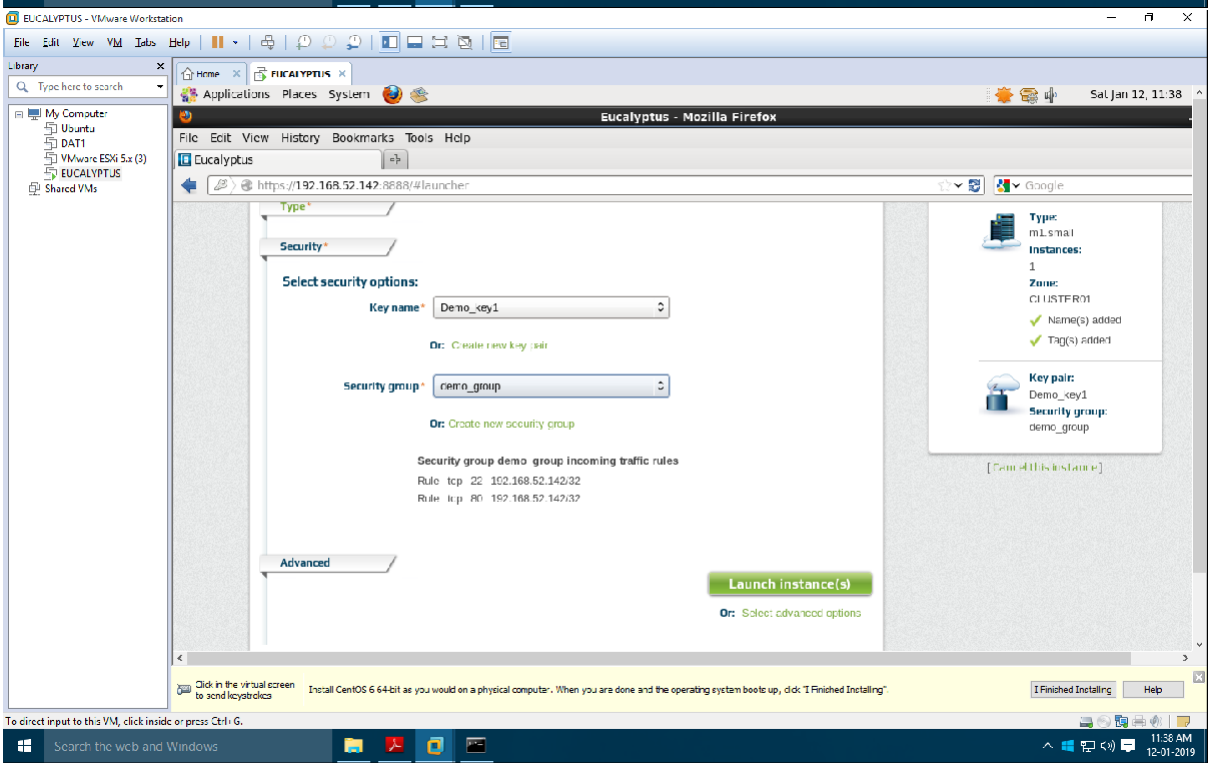
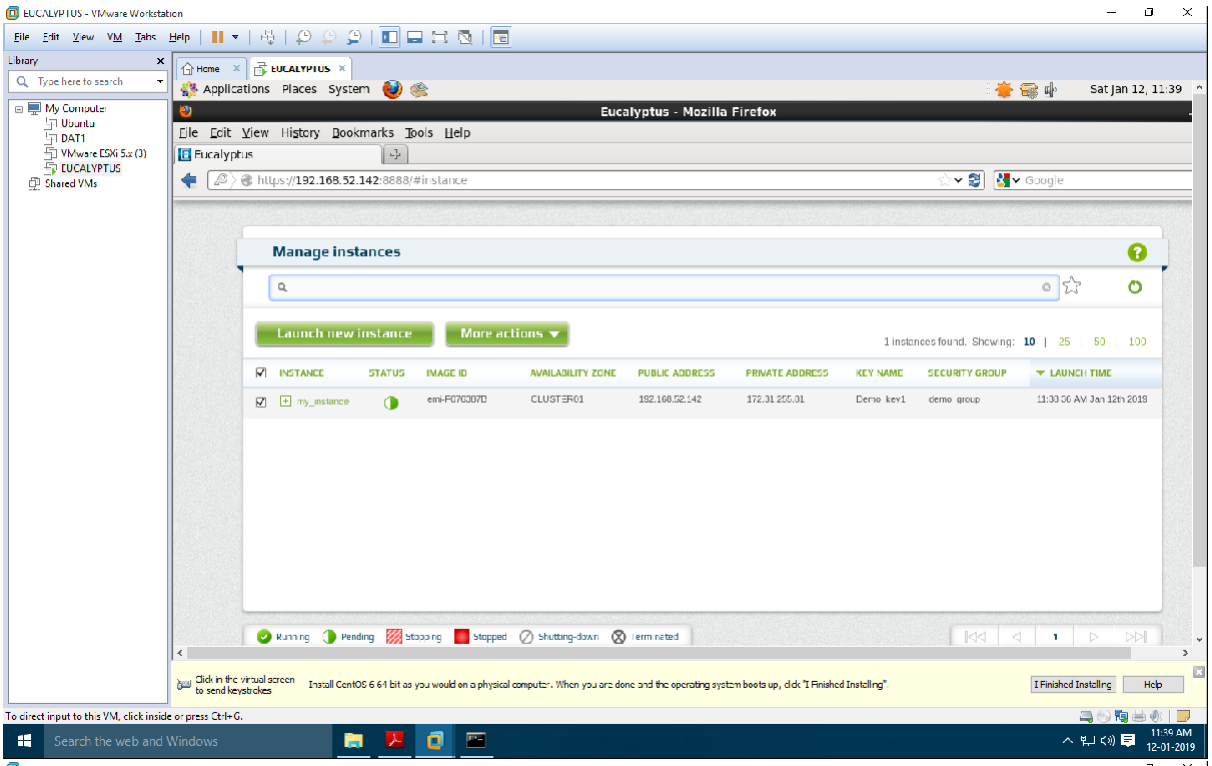
Ubuntu
DAT1
VMware ESXi 5.x (3)
EUCALYPTUS
Shared VMs
Home
EUCALYPTUS
Applications Places System
Sat Jan 12, 11:35
Eucalyptus - Mozilla Firefox
File Edit View History Bookmarks Tools Help
Eucalyptus
https://192.168.52.142:8888/#image
Google
Security *
Select security options:
Key name * Demo_key1
Or: Create new key pair
Security group * demo_group
Or: Create new security group
Security group demo_group incoming traffic rules
Rule tcp 22 192.168.52.142/32
Rule tcp 80 192.168.52.142/32
Advanced
Create launch configuration
Or: Select advanced options
*Required fields
Create scaling group using this launch configuration
Type:
m1.small
None(s) added
Key pair:
Demo_key1
Security group:
demo_group
[Cancel this launch configuration]
Click in the virtual screen to send keystrokes
Install CentOS 6 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "I Finished Installing"
I Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
11:35 AM
12-01-2019

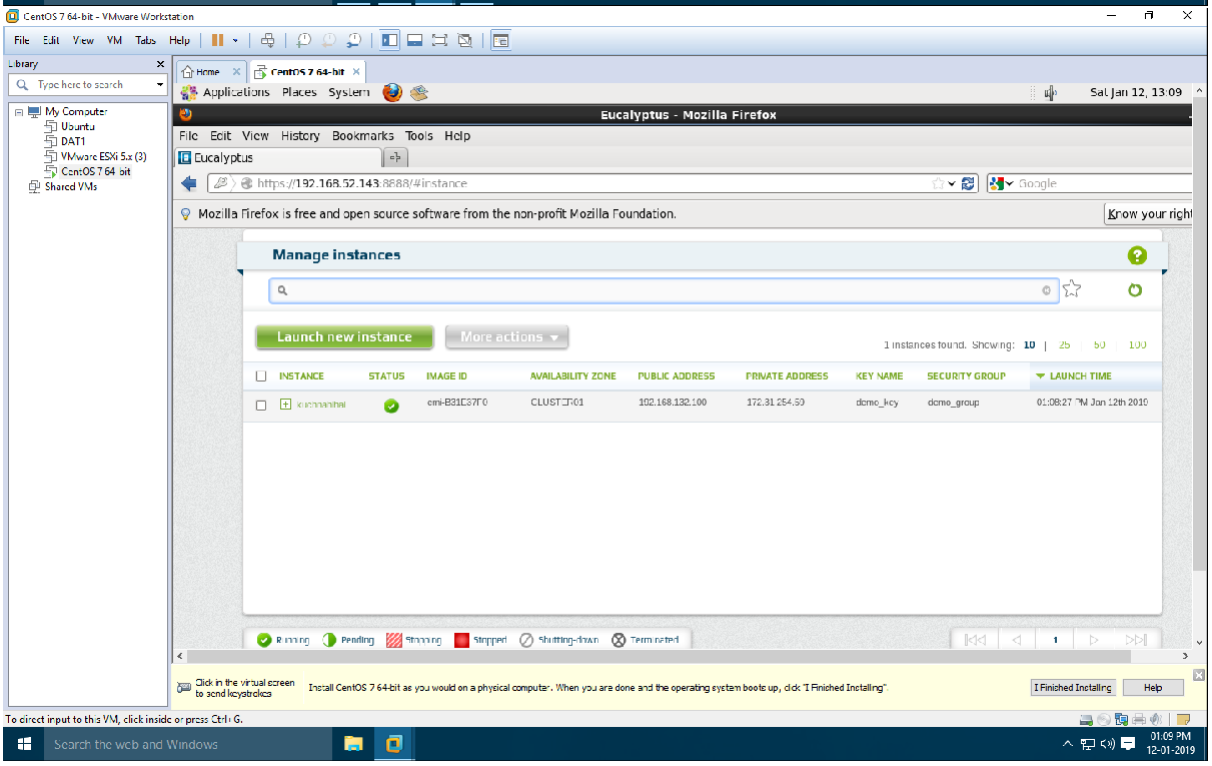

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
EUCALYPTUS
Dashboard
Images
Instances
Storage
Network & Security
Auto Scaling Groups
Manage instances
Launch new instance
More actions
INSTANCE
STATUS
IMAGE ID
AVAILABILITY ZONE
PUBLIC ADDRESS
PRIVATE ADDRESS
KEY NAME
SECURITY GROUP
LAUNCH TIME
I Finished Installing
Help

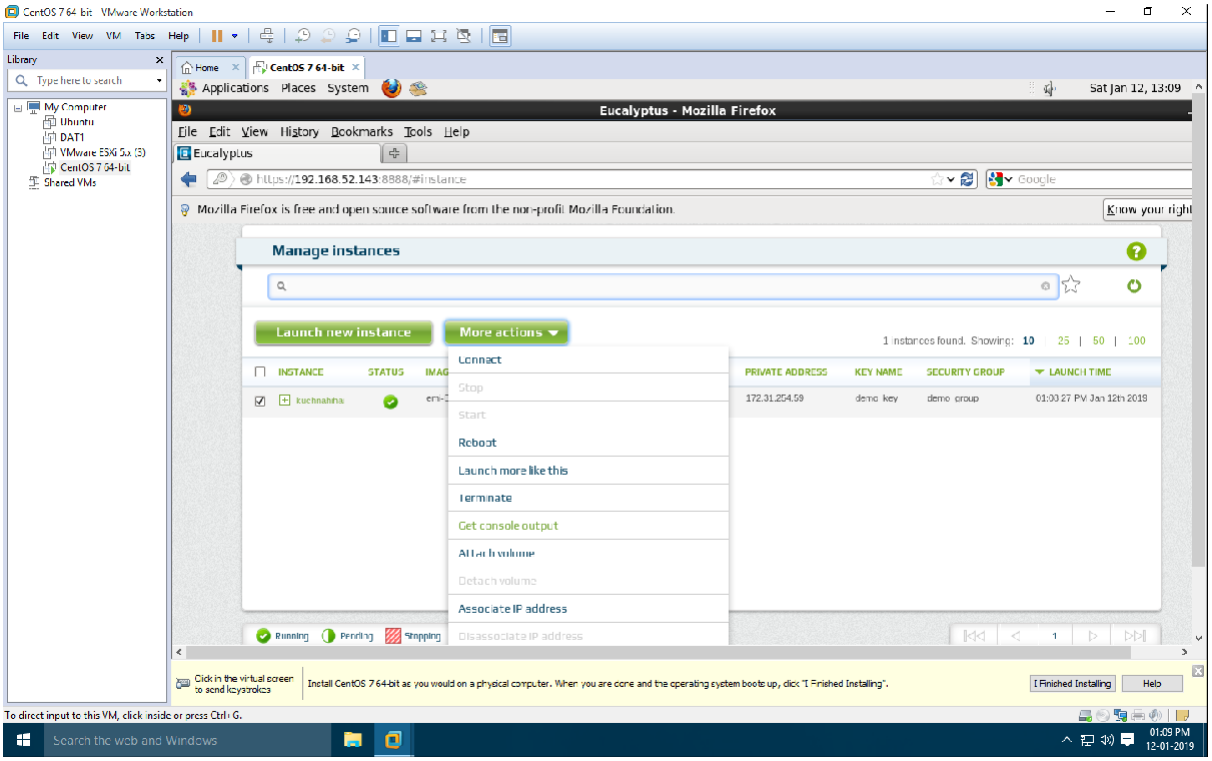

EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Create new instance
An ID will be auto generated when you launch this instance.
Image *
Select image *
570f927c-ks-centos6-201901121617
emi-F076387B x86_64
CentOS 6 demo
Type
Next: Select type
Summary
Image:
emi-F076387B
Platform:
centos6
[Cancel this instance]
I Finished Installing
Help


EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Instance name(s)
my_instance
Instance size
Availability zone
CLUSTER01
Instance tags
KEY
VALUE
Name
my_instance
Security
Advanced
Next: Select security
*Required fields
Zone:
CLUSTER01
Name(s) added
I Finished Installing
Help


EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Type*
Security*
Select security options:
Key name*
Demo_key1
Or: Create new key pair
Security group*
demo_group
Or: Create new security group
Security group demo_group incoming traffic rules
Advanced
Launch instance(s)
Or: Select advanced options
Type:
m1.small
Instances:
1
Zone:
CLUSTER01
Name(s) added
Tag(s) added
Key pair:
Demo_key1
Security group:
demo_group
I Finished Installing
Help


EUCALYPTUS - VMware Workstation
Eucalyptus - Mozilla Firefox
Manage instances
Launch new instance
More actions
INSTANCE
STATUS
IMAGE ID
AVAILABILITY ZONE
PUBLIC ADDRESS
PRIVATE ADDRESS
KEY NAME
SECURITY GROUP
LAUNCH TIME
I Finished Installing
Help


CentOS 7 64-bit - VMware Workstation
Eucalyptus - Mozilla Firefox
Manage instances
Launch new instance
More actions
INSTANCE
STATUS
IMAGE ID
AVAILABILITY ZONE
PUBLIC ADDRESS
PRIVATE ADDRESS
KEY NAME
SECURITY GROUP
LAUNCH TIME
I Finished Installing
Help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CentOS 7 64-bit
Applications Places System
Sat Jan 12, 13:09
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File Edit View History Bookmarks Tools Help
Eucalyptus
https://192.168.52.143:8888/#instance
Google
Mozilla Firefox is free and open source software from the non-profit Mozilla Foundation.
Know your right
Manage instances
Launch new instance
More actions
1 instances found. Showing: 10 | 25 | 50 | 100
INSTANCE
STATUS
PRIVATE ADDRESS
KEY NAME
SECURITY GROUP
LAUNCH TIME
172.31.254.59
demo key
demo group
01:00:27 PM Jan 12th 2019
Connect
Stop
Start
Reboot
Launch more like this
Terminate
Get console output
Attach volume
Detach volume
Associate IP address
Disassociate IP address
Running
Pending
Stopping
Click in the virtual screen to send keystrokes
Install CentOS 7 64-bit as you would on a physical computer. When you are done and the operating system boots up, click "Finished Installing".
Finished Installing
Help
To direct input to this VM, click inside or press Ctrl+G.
Search the web and Windows
01:09 PM
12-01-2019