RAMNIRANJAN JHUNJHUNWALA COLLEGE

GHATKOPAR (W), MUMBAI - 400 086

DEPARTMENT OF INFORMATION TECHNOLOGY

2020 - 2021

M.Sc.(I.T.) SEM I

Cloud Computing

Name: SHREYANS UPADHYAY

Roll No.: 18

Hindi Vidya Prachar Samiti's

RAMNIRANJAN JHUNJHUNWALA COLLEGE

(AUTONOMOUS)

Opposite Ghatkopar Railway Station, Ghatkopar West, Mumbai-400086

CERTIFICATE

This is to certify that Mr. **Upadhyay Shreyans Indresh** with Roll No. **18** 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 External Examiner

_____ _____

Head of Department College Seal

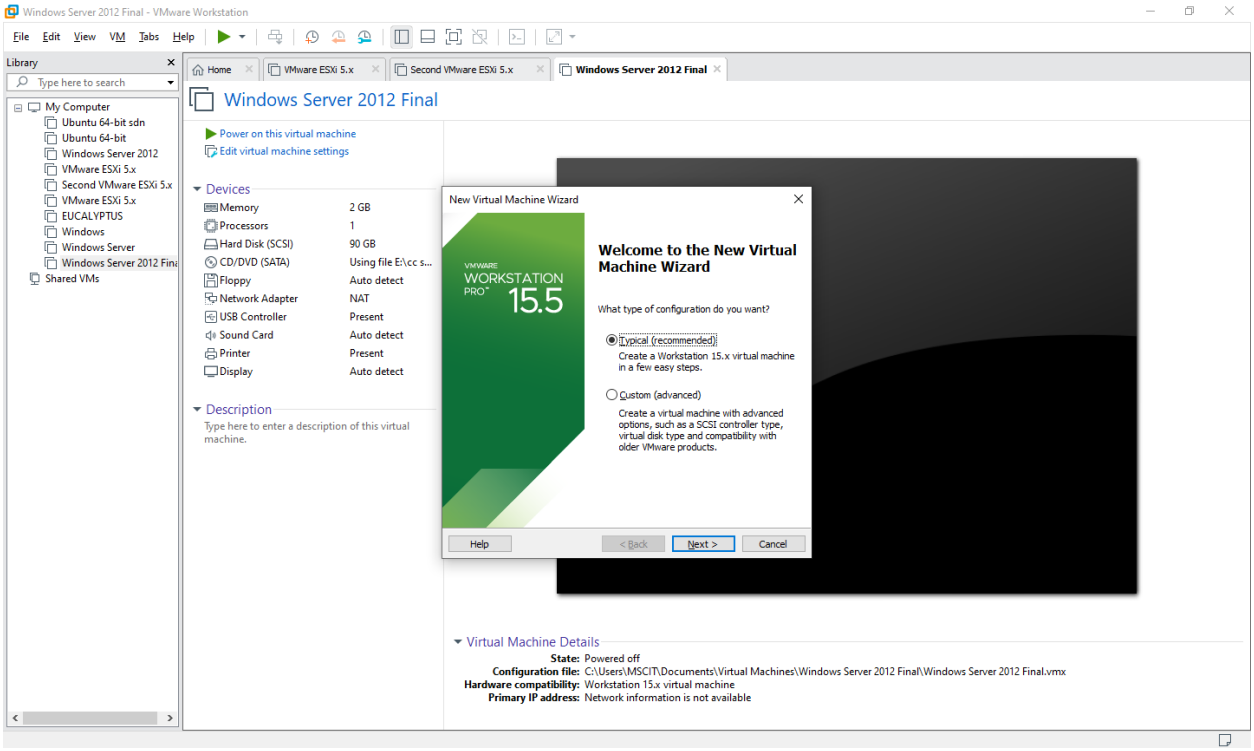
Index

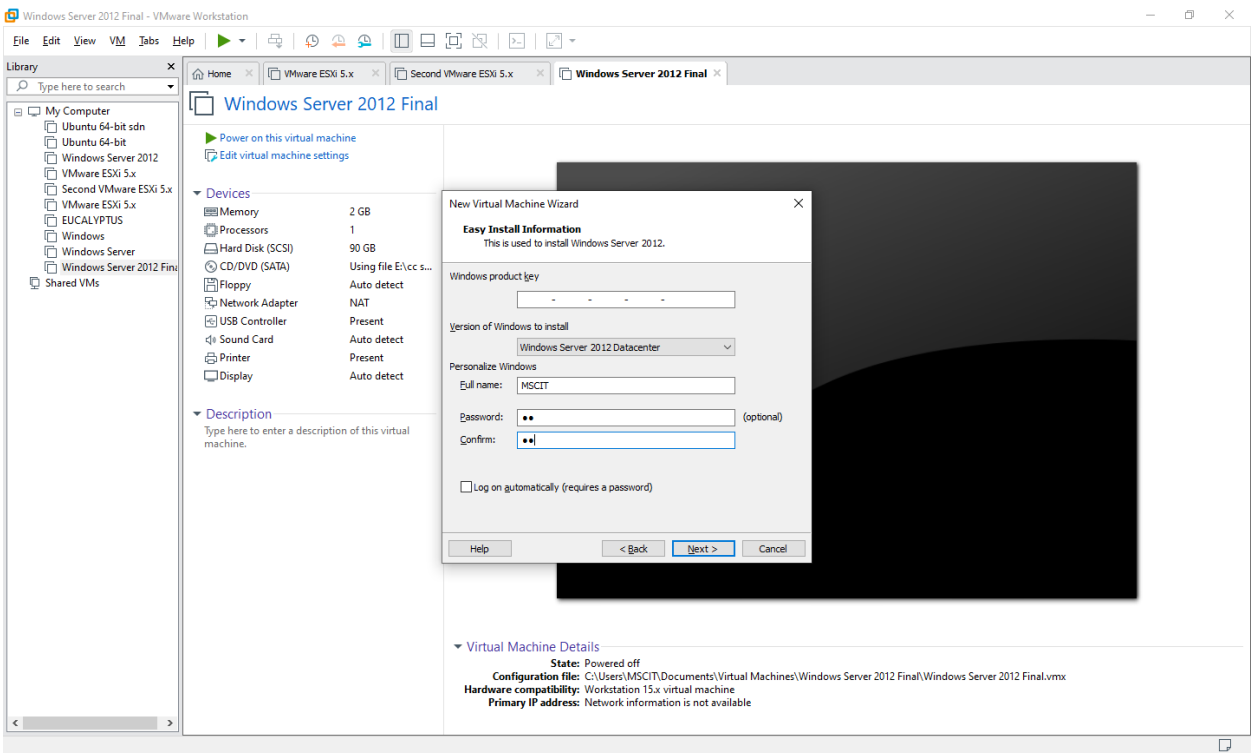
Practical No 1.

Implement 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.


Windows Server 2012 Final - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
Windows Server 2012 Final
Power on this virtual machine
Edit virtual machine settings
Devices
Memory 2 GB
Processors 1
Hard Disk (SCSI) 90 GB
CD/DVD (SATA) Using file E:\cc s...
Floppy Auto detect
Network Adapter NAT
USB Controller Present
Sound Card Auto detect
Printer Present
Display Auto detect
Description
Type here to enter a description of this virtual machine.
New Virtual Machine Wizard
VMWARE WORKSTATION PRO 15.5
Welcome to the New Virtual Machine Wizard
What type of configuration do you want?
Typical (recommended)
Create a Workstation 15.x virtual machine in a few easy steps.
Custom (advanced)
Create a virtual machine with advanced options, such as a SCSI controller type, virtual disk type and compatibility with older VMware products.
Help
< Back
Next >
Cancel
Virtual Machine Details
State: Powered off
Configuration file: C:\Users\MSCIT\Documents\Virtual Machines\Windows Server 2012 Final\Windows Server 2012 Final.vmx
Hardware compatibility: Workstation 15.x virtual machine
Primary IP address: Network information is not available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My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
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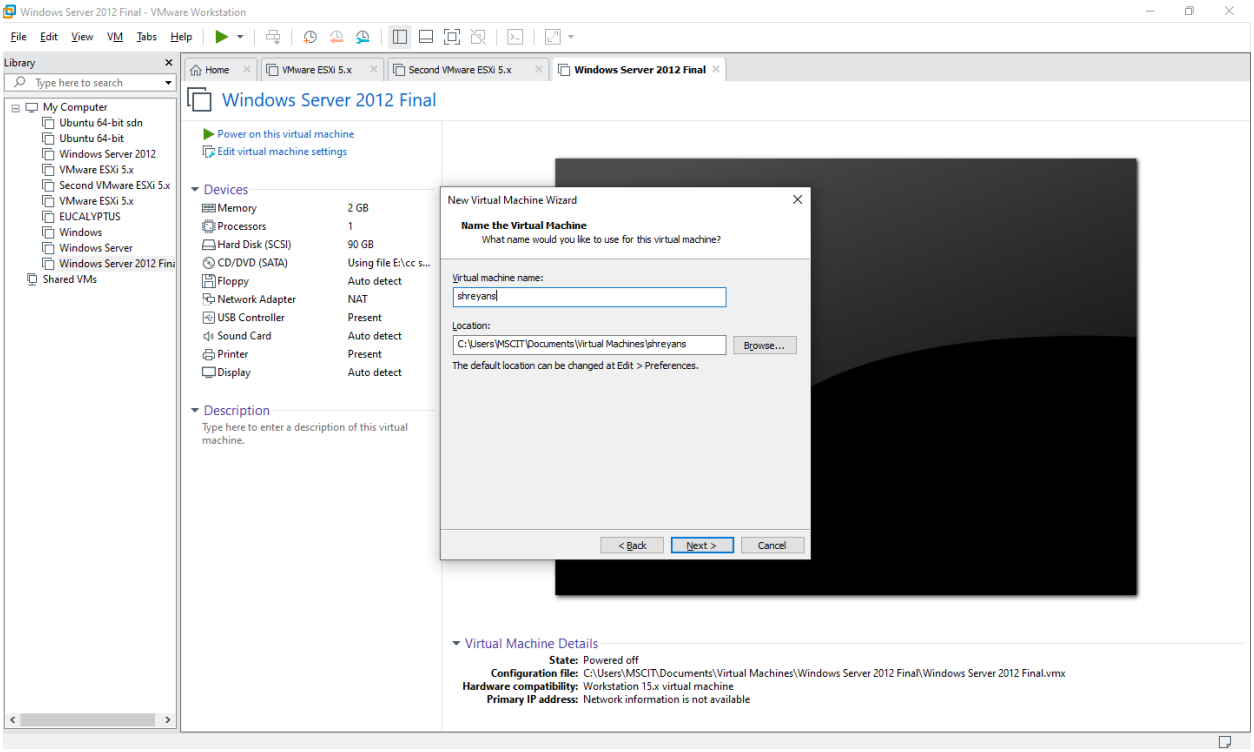
CD/DVD (SATA) Using file E:\cc s...
Floppy Auto detect
Network Adapter NAT
USB Controller Present
Sound Card Auto detect
Printer Present
Display Auto detect
Description
Type here to enter a description of this virtual machine.
New Virtual Machine Wizard
Easy Install Information
This is used to install Windows Server 2012.
Windows product key
Version of Windows to install
Windows Server 2012 Datacenter
Personalize Windows
Full name: MSCIT
Password: (optional)
Confirm:
Log on automatically (requires a password)
Help
< Back
Next >
Cancel
Virtual Machine Details
State: Powered off
Configuration file: C:\Users\MSCIT\Documents\Virtual Machines\Windows Server 2012 Final\Windows Server 2012 Final.vmx
Hardware compatibility: Workstation 15.x virtual machine
Primary IP address: Network information is not available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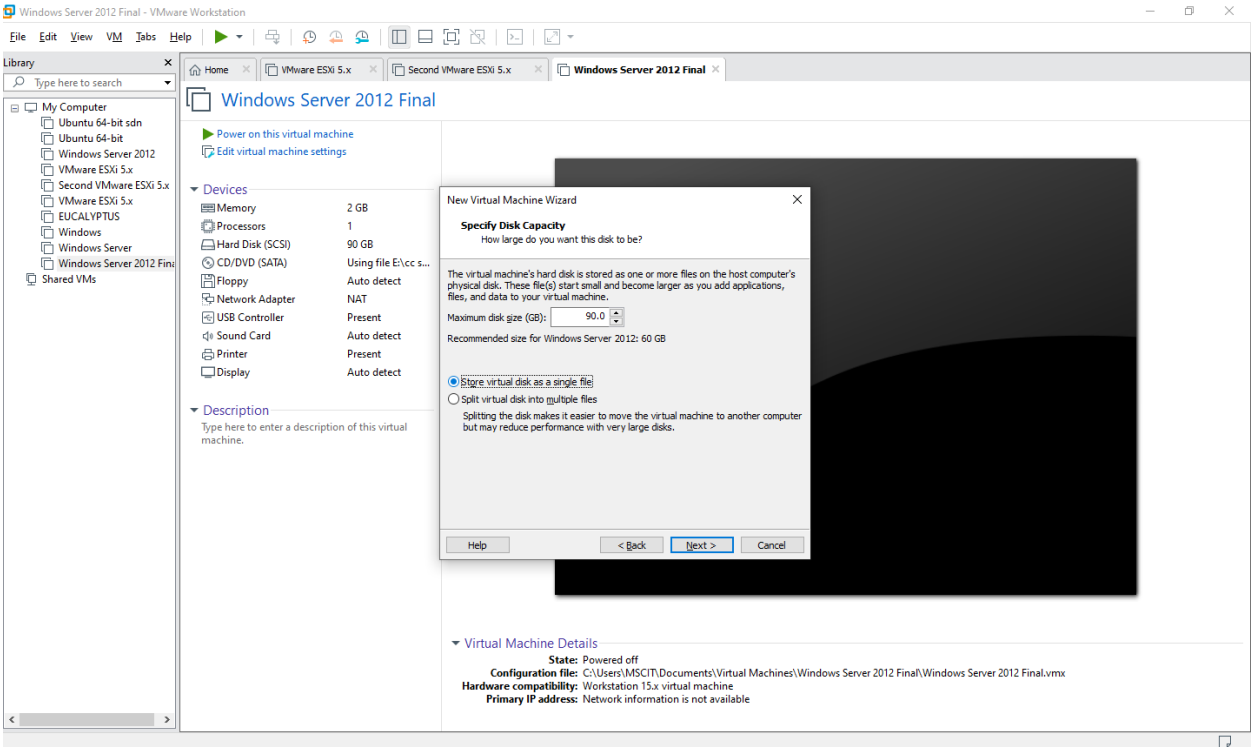
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
Windows Server 2012 Final
Power on this virtual machine
Edit virtual machine settings
Devices
Memory 2 GB
Processors 1
Hard Disk (SCSI) 90 GB
CD/DVD (SATA) Using file E:\cc s...
Floppy Auto detect
Network Adapter NAT
USB Controller Present
Sound Card Auto detect
Printer Present
Display Auto detect
Description
Type here to enter a description of this virtual machine.
New Virtual Machine Wizard
Name the Virtual Machine
What name would you like to use for this virtual machine?
Virtual machine name:
shreyans
Location:
C:\Users\MSCIT\Documents\Virtual Machines\shreyans
Browse...
The default location can be changed at Edit > Preferences.
< Back
Next >
Cancel
Virtual Machine Details
State: Powered off
Configuration file: C:\Users\MSCIT\Documents\Virtual Machines\Windows Server 2012 Final\Windows Server 2012 Final.vmx
Hardware compatibility: Workstation 15.x virtual machine
Primary IP address: Network information is not available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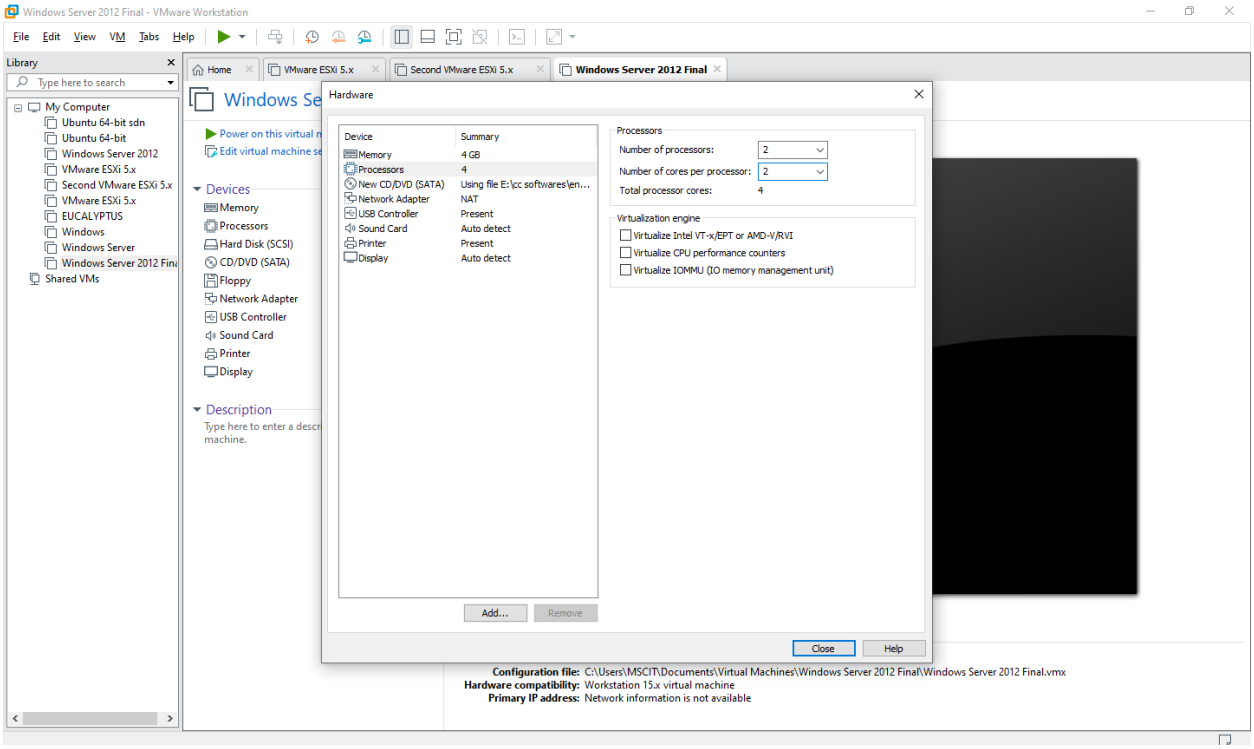
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
Windows Server 2012 Final
Power on this virtual machine
Edit virtual machine settings
Devices
Memory 2 GB
Processors 1
Hard Disk (SCSI) 90 GB
CD/DVD (SATA) Using file E:\cc s...
Floppy Auto detect
Network Adapter NAT
USB Controller Present
Sound Card Auto detect
Printer Present
Display Auto detect
Description
Type here to enter a description of this virtual machine.
New Virtual Machine Wizard
Specify Disk Capacity
How large do you want this disk to be?
The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.
Maximum disk size (GB): 90.0
Recommended size for Windows Server 2012: 60 GB
Store virtual disk as a single file
Split virtual disk into multiple files
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.
Help
< Back
Next >
Cancel
Virtual Machine Details
State: Powered off
Configuration file: C:\Users\MSCIT\Documents\Virtual Machines\Windows Server 2012 Final\Windows Server 2012 Final.vmx
Hardware compatibility: Workstation 15.x virtual machine
Primary IP address: Network information is not available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Ubuntu 64-bit sdn
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Windows Server 2012
VMware ESXi 5.x
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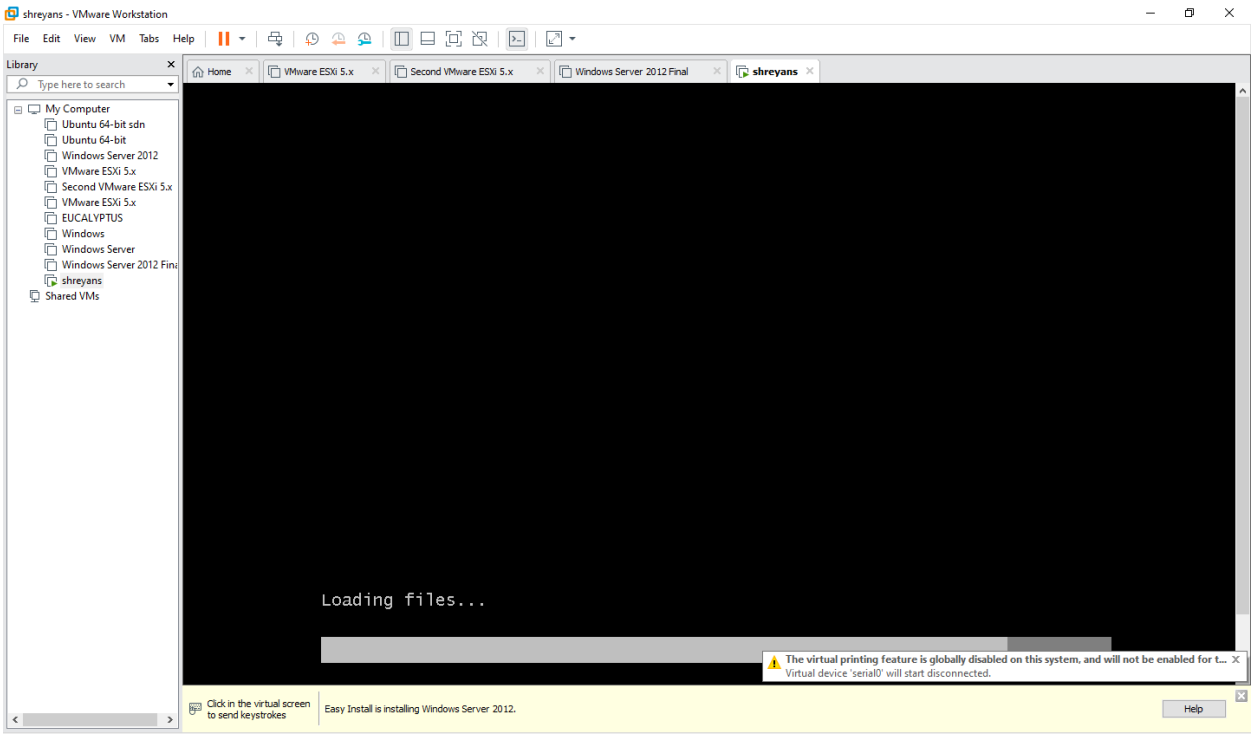
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
Windows Se
Power on this virtual
Edit virtual machine se
Devices
Memory
Processors
Hard Disk (SCSI)
CD/DVD (SATA)
Floppy
Network Adapter
USB Controller
Sound Card
Printer
Display
Description
Type here to enter a descr
machine.
Hardware
Device
Summary
Memory
4 GB
Processors
4
New CD/DVD (SATA)
Using file E:\cc softwares\en...
Network Adapter
NAT
USB Controller
Present
Sound Card
Auto detect
Printer
Present
Display
Auto detect
Add...
Remove
Processors
Number of processors:
2
Number of cores per processor:
2
Total processor cores:
4
Virtualization engine
Virtualize Intel VT-x/EPT or AMD-V/RVI
Virtualize CPU performance counters
Virtualize IOMMU (IO memory management unit)
Close
Help
Configuration file: C:\Users\MSCIT\Documents\Virtual Machines\Windows Server 2012 Final\Windows Server 2012 Final.vmx
Hardware compatibility: Workstation 15.x virtual machine
Primary IP address: Network information is not available


shreyans - VMware Workstation
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Ubuntu 64-bit sdn
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Windows Server 2012
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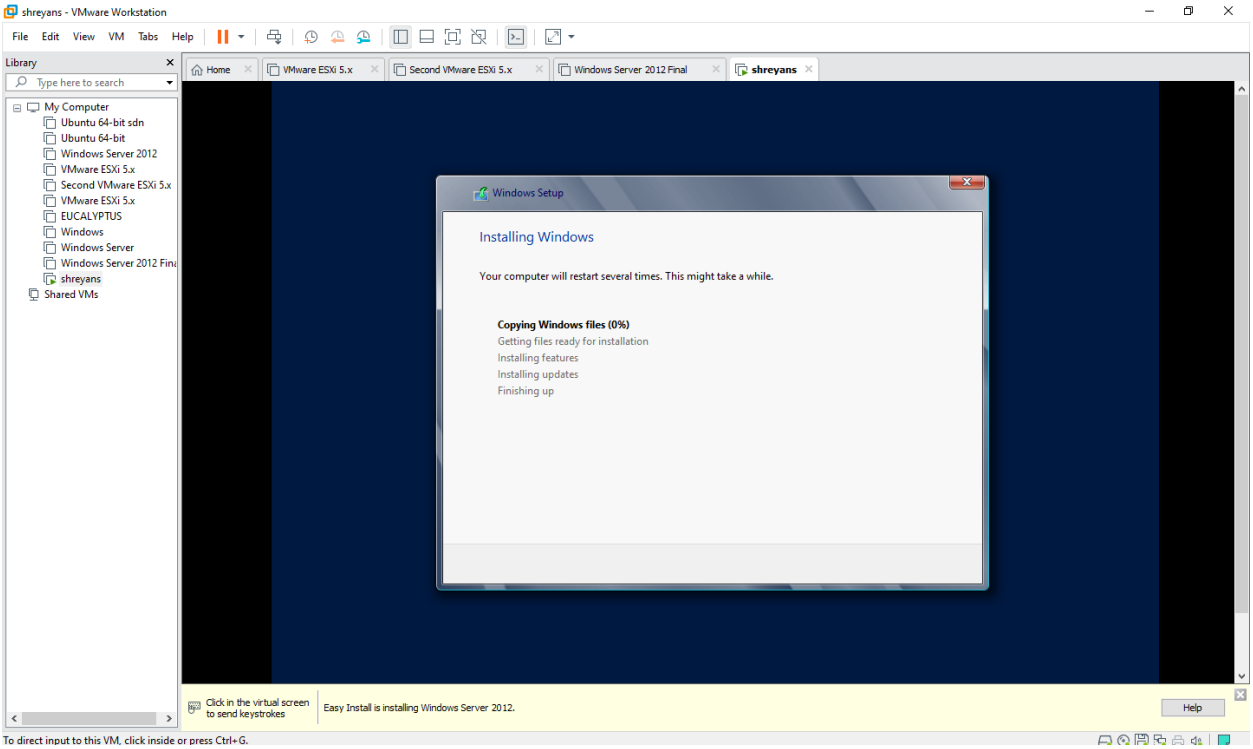
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Loading files...
The virtual printing feature is globally disabled on this system, and will not be enabled for t...
Virtual device 'serial0' will start disconnected.
Click in the virtual screen to send keystrokes
Easy Install is installing Windows Server 2012.
Help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Library
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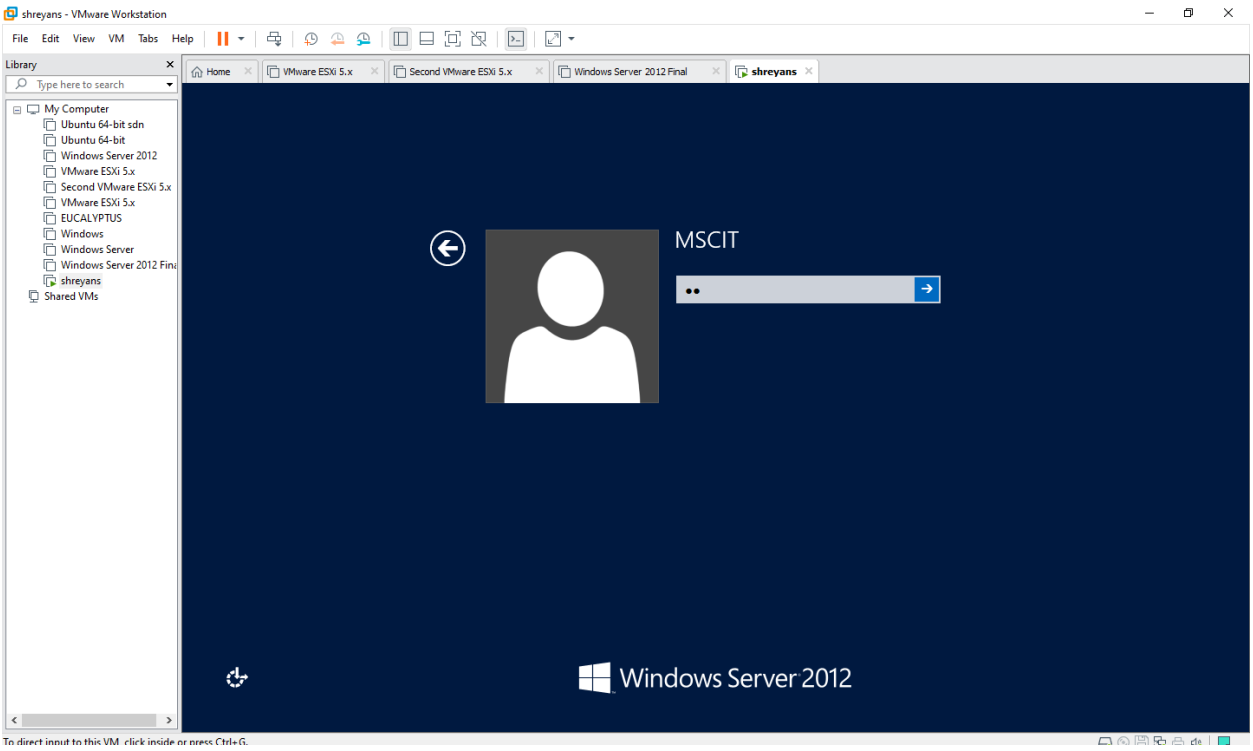
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Windows Setup
Installing Windows
Your computer will restart several times. This might take a while.
Copying Windows files (0%)
Getting files ready for installation
Installing features
Installing updates
Finishing up
Click in the virtual screen to send keystrokes
Easy Install is installing Windows Server 2012.
Help
To direct input to this VM, click inside or press Ctrl+G.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My Computer
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Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
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Windows Server 2012 Final
shreyans
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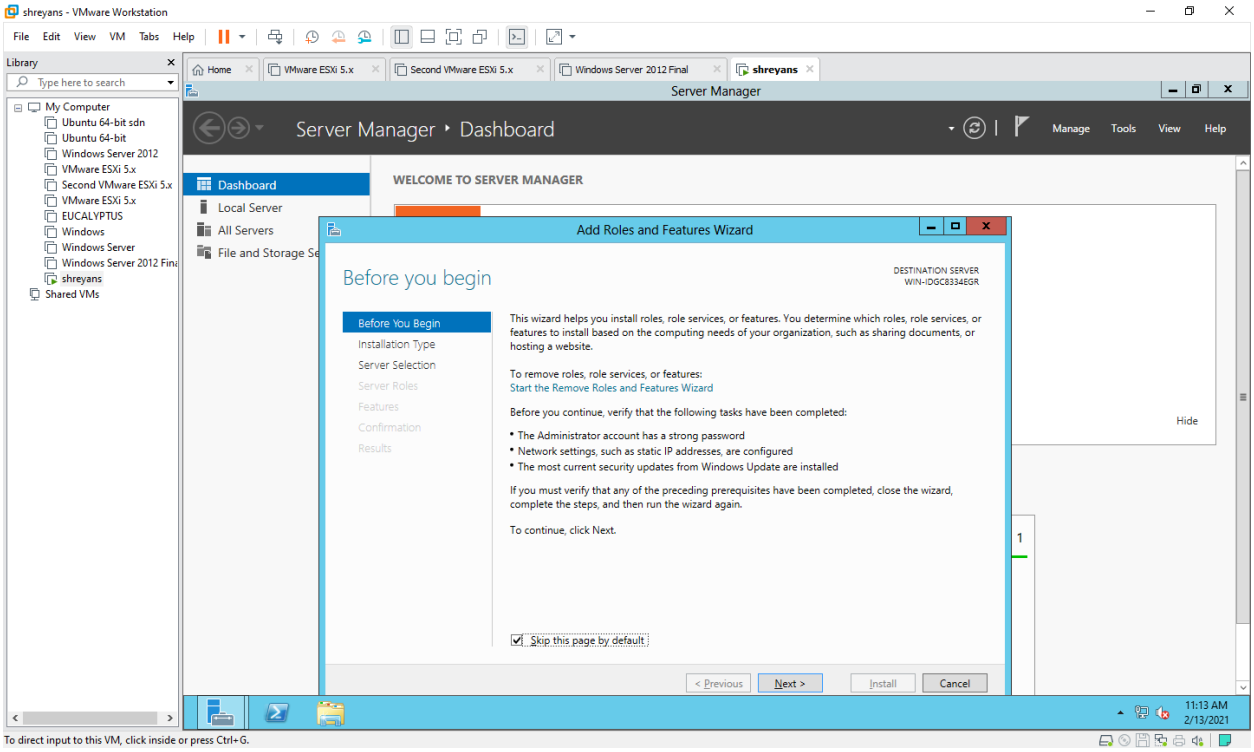
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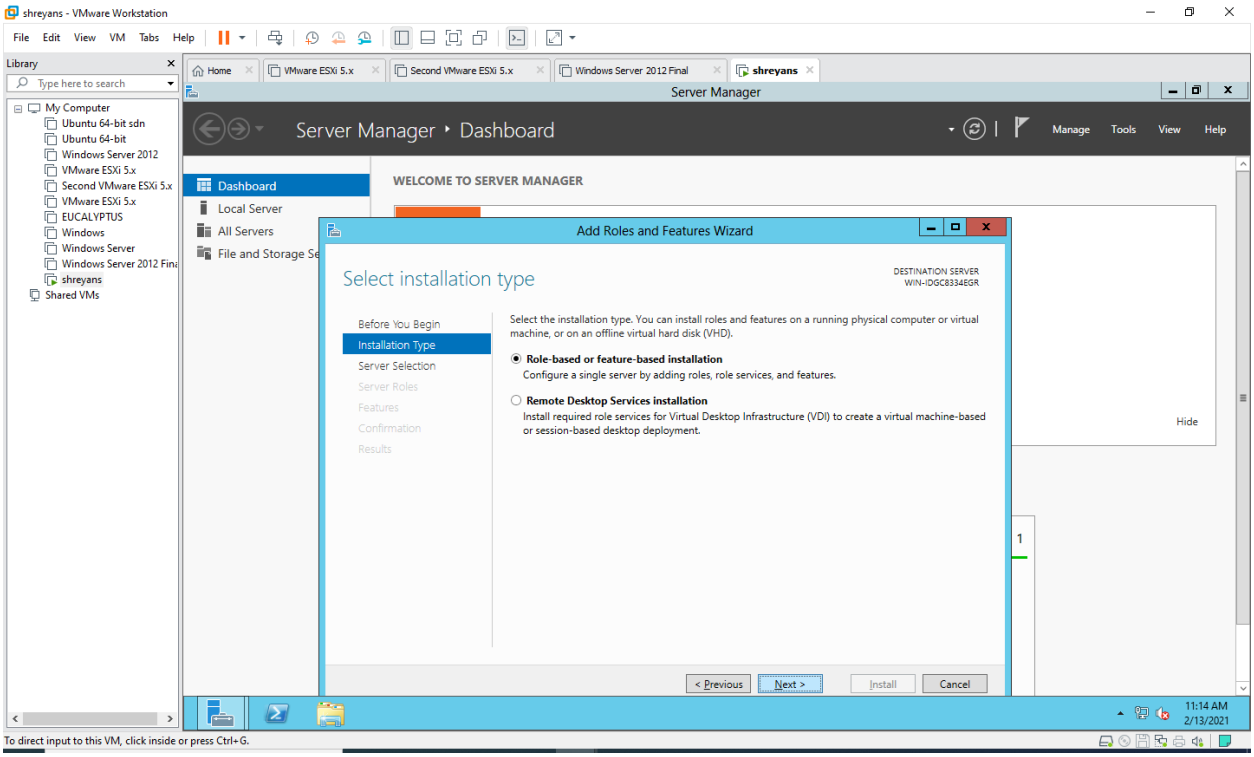
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager ‣ Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storage Se
WELCOME TO SERVER MANAGER
Add Roles and Features Wizard
Before you begin
DESTINATION SERVER
WIN-IDGC8334EGR
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.
To remove roles, role services, or features:
Start the Remove Roles and Features Wizard
Before you continue, verify that the following tasks have been completed:
• The Administrator account has a strong password
• Network settings, such as static IP addresses, are configured
• The most current security updates from Windows Update are installed
If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.
To continue, click Next.
Skip this page by default
< Previous
Next >
Install
Cancel
Hide
1
11:13 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.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Library
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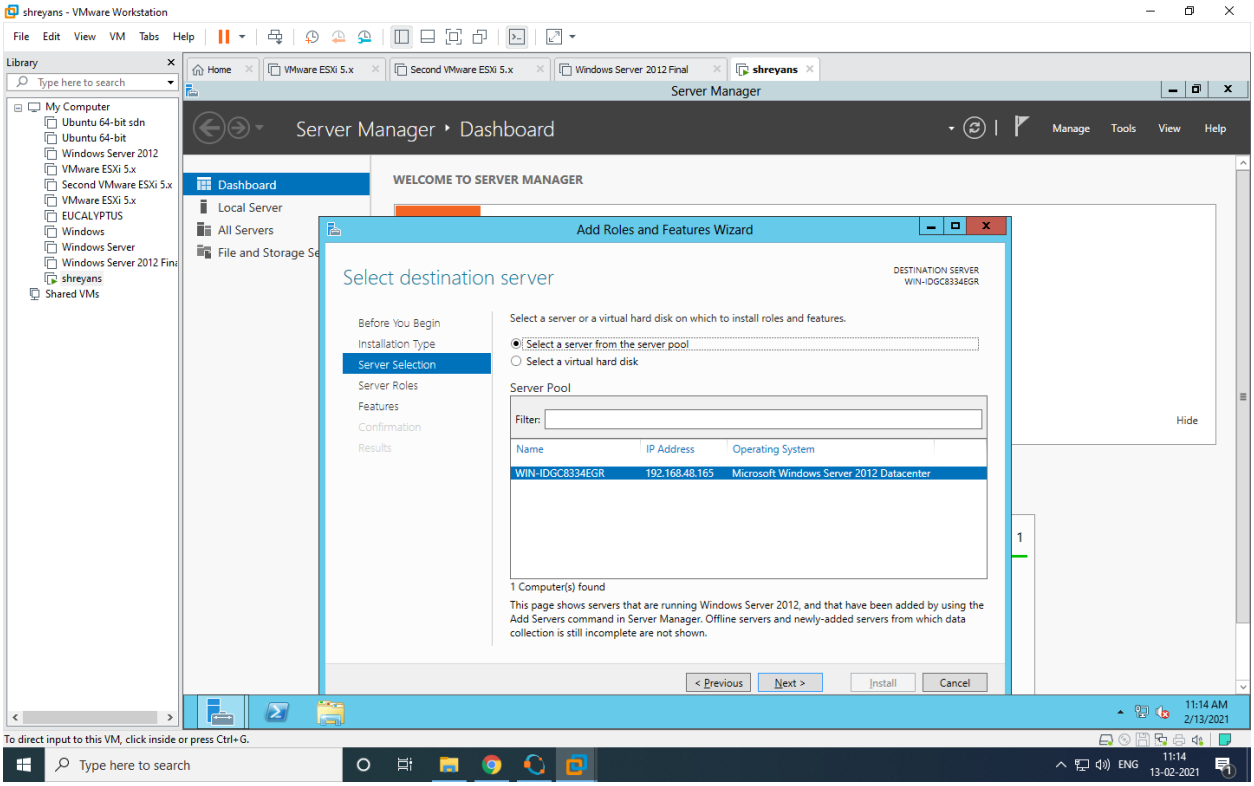
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager ‣ Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storage Se
WELCOME TO SERVER MANAGER
Add Roles and Features Wizard
Select installation type
DESTINATION SERVER
WIN-IDGC8334EGR
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).
Role-based or feature-based installation
Configure a single server by adding roles, role services, and features.
Remote Desktop Services installation
Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.
< Previous
Next >
Install
Cancel
Hide
1
11:14 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.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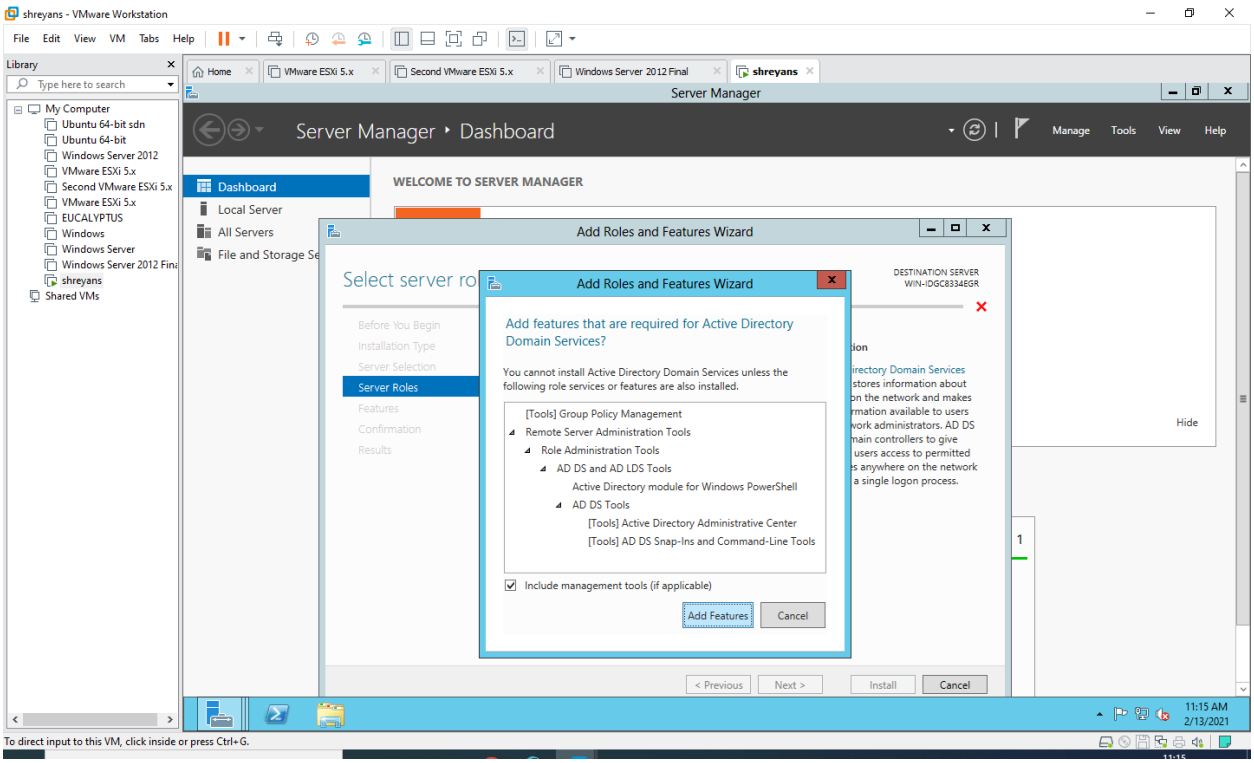
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storage Se
WELCOME TO SERVER MANAGER
Hide
Add Roles and Features Wizard
Select destination server
DESTINATION SERVER
WIN-IDGC8334EGR
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
Select a server or a virtual hard disk on which to install roles and features.
Select a server from the server pool
Select a virtual hard disk
Server Pool
Filter:
Name
IP Address
Operating System
WIN-IDGC8334EGR
192.168.48.165
Microsoft Windows Server 2012 Datacenter
1 Computer(s) found
This page shows servers that are running Windows Server 2012, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.
< Previous
Next >
Install
Cancel
11:14 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
11:14
13-02-2021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My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storage Se
WELCOME TO SERVER MANAGER
Hide
Add Roles and Features Wizard
Select server ro
DESTINATION SERVER
WIN-IDGC8334EGR
Add Roles and Features Wizard
Add features that are required for Active Directory Domain Services?
You cannot install Active Directory Domain Services unless the following role services or features are also installed.
[Tools] Group Policy Management
Remote Server Administration Tools
Role Administration Tools
AD DS and AD LDS Tools
Active Directory module for Windows PowerShell
AD DS Tools
[Tools] Active Directory Administrative Center
[Tools] AD DS Snap-Ins and Command-Line Tools
Include management tools (if applicable)
Add Features
Cancel
Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results
< Previous
Next >
Install
Cancel
11:15 AM
2/13/2021
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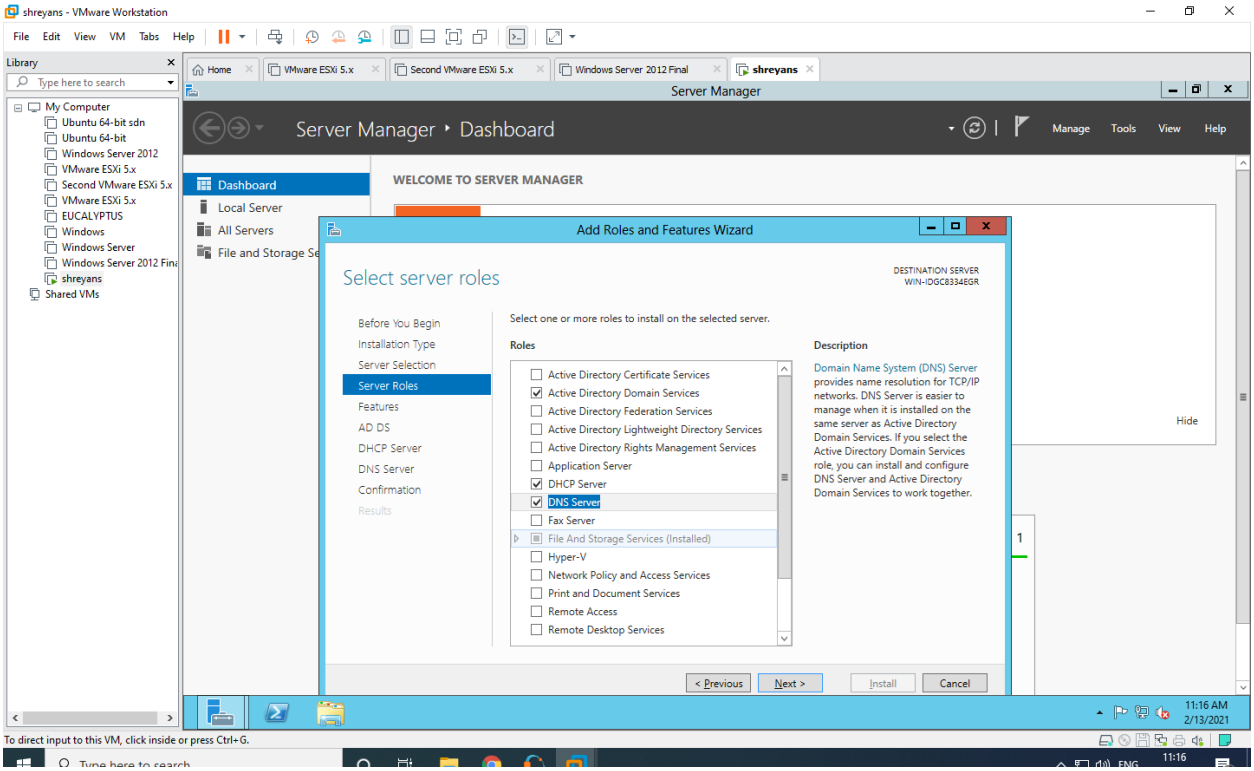
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Ubuntu 64-bit sdn
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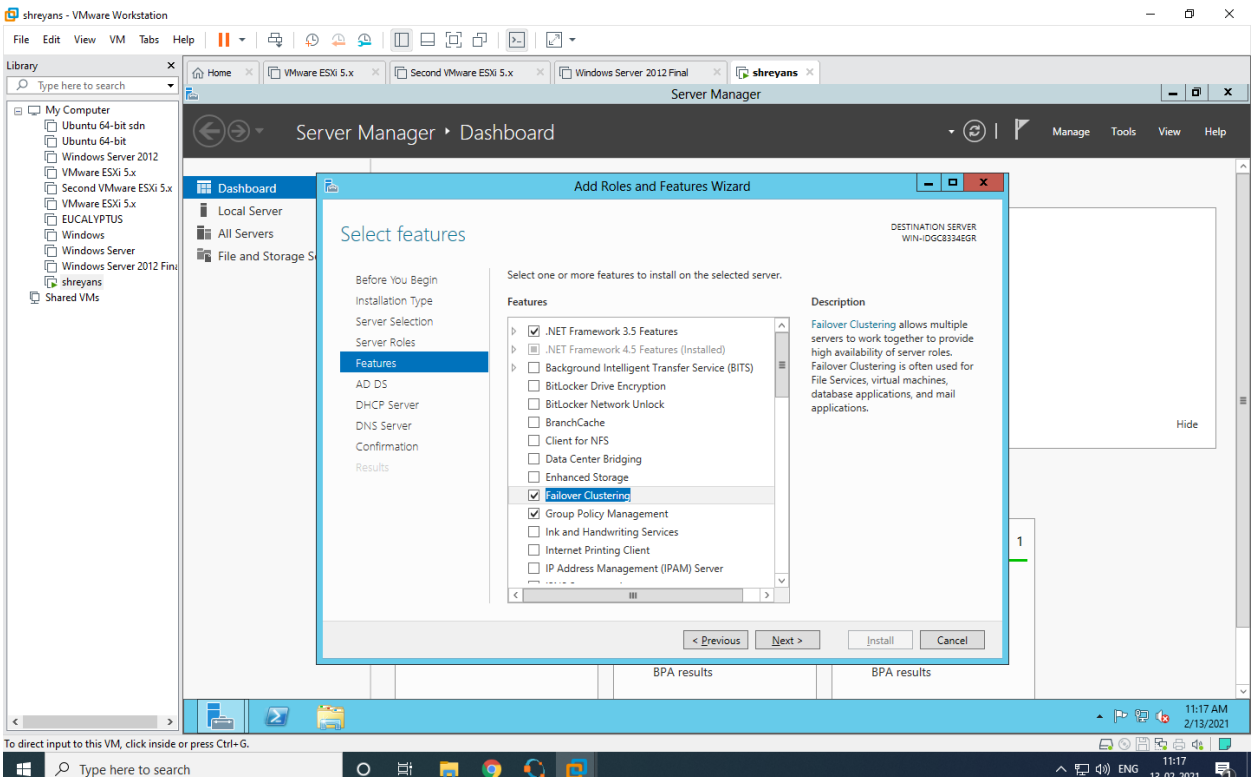
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager ‣ Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storage Se
WELCOME TO SERVER MANAGER
Add Roles and Features Wizard
Select server roles
DESTINATION SERVER
WIN-IDGC8334EGR
Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
DHCP Server
DNS Server
Confirmation
Results
Select one or more roles to install on the selected server.
Roles
Active Directory Certificate Services
Active Directory Domain Services
Active Directory Federation Services
Active Directory Lightweight Directory Services
Active Directory Rights Management Services
Application Server
DHCP Server
DNS Server
Fax Server
File And Storage Services (Installed)
Hyper-V
Network Policy and Access Services
Print and Document Services
Remote Access
Remote Desktop Services
Description
Domain Name System (DNS) Server provides name resolution for TCP/IP networks. DNS Server is easier to manage when it is installed on the same server as Active Directory Domain Services. If you select the Active Directory Domain Services role, you can install and configure DNS Server and Active Directory Domain Services to work together.
< Previous
Next >
Install
Cancel
Hide
11:16 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.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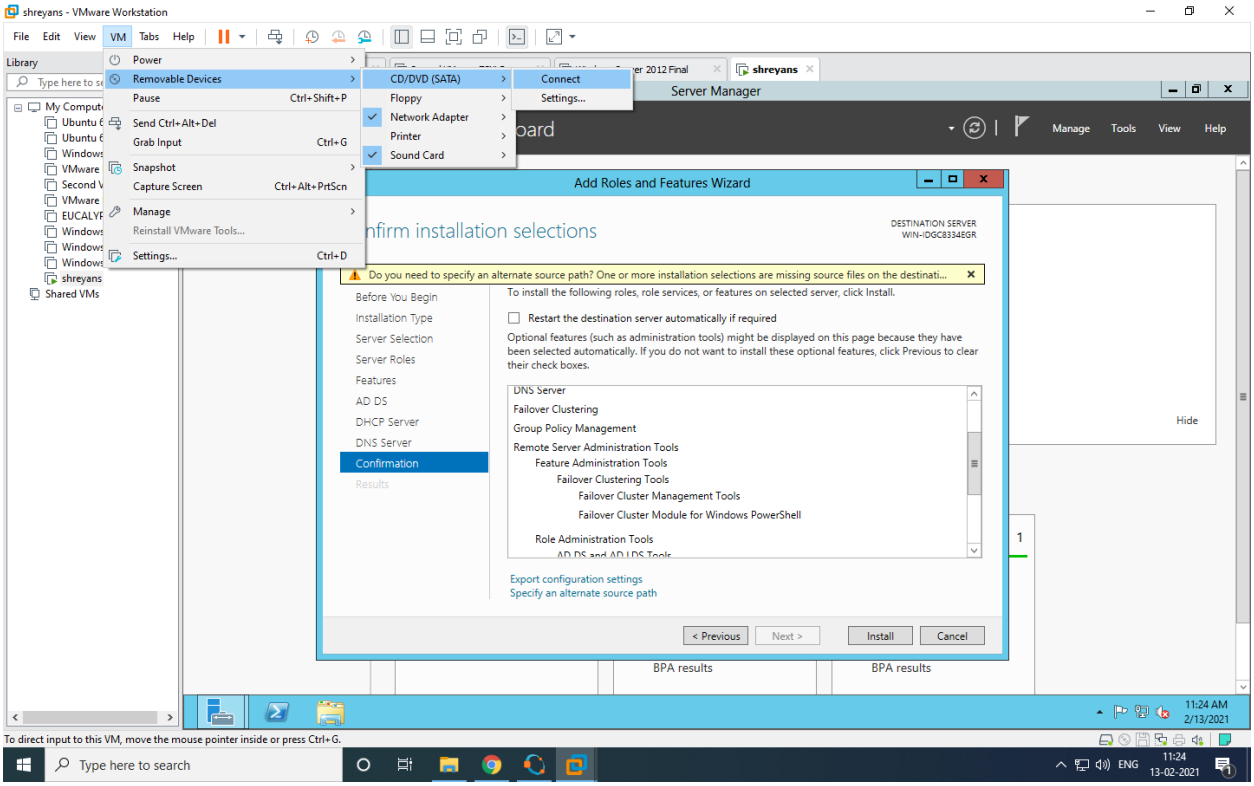
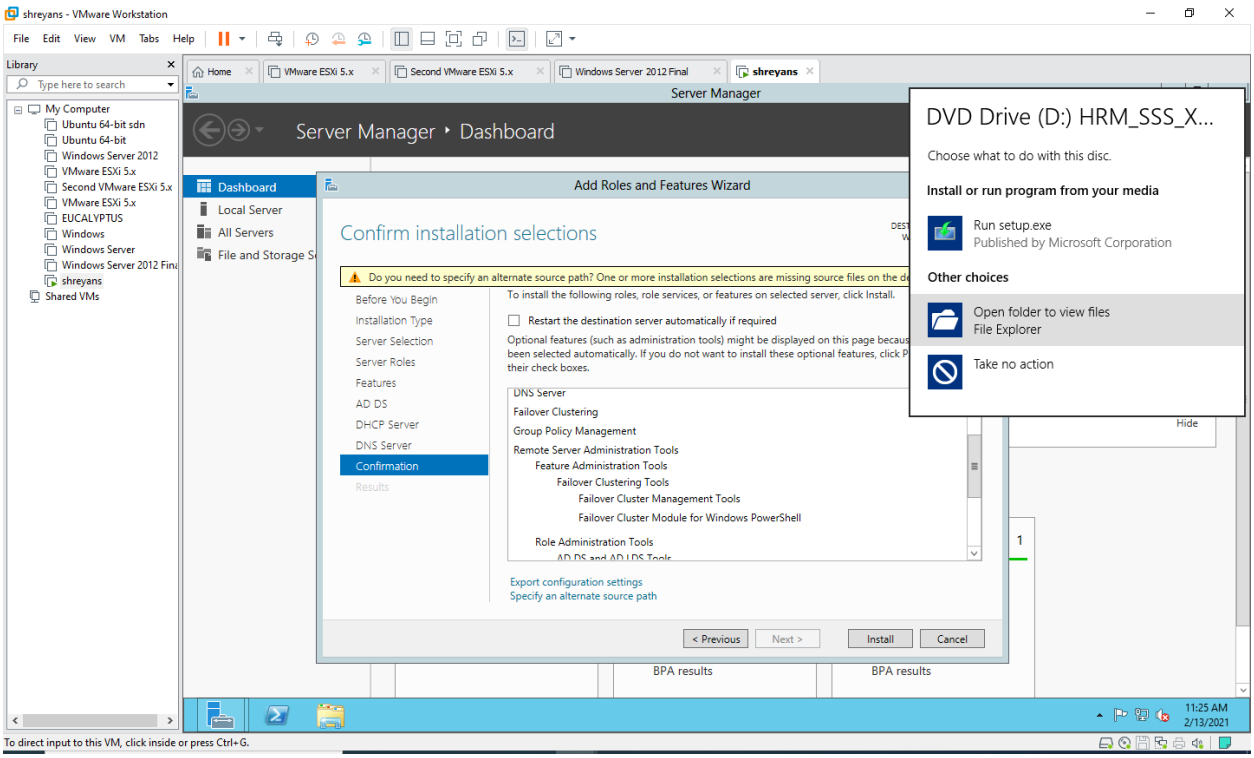
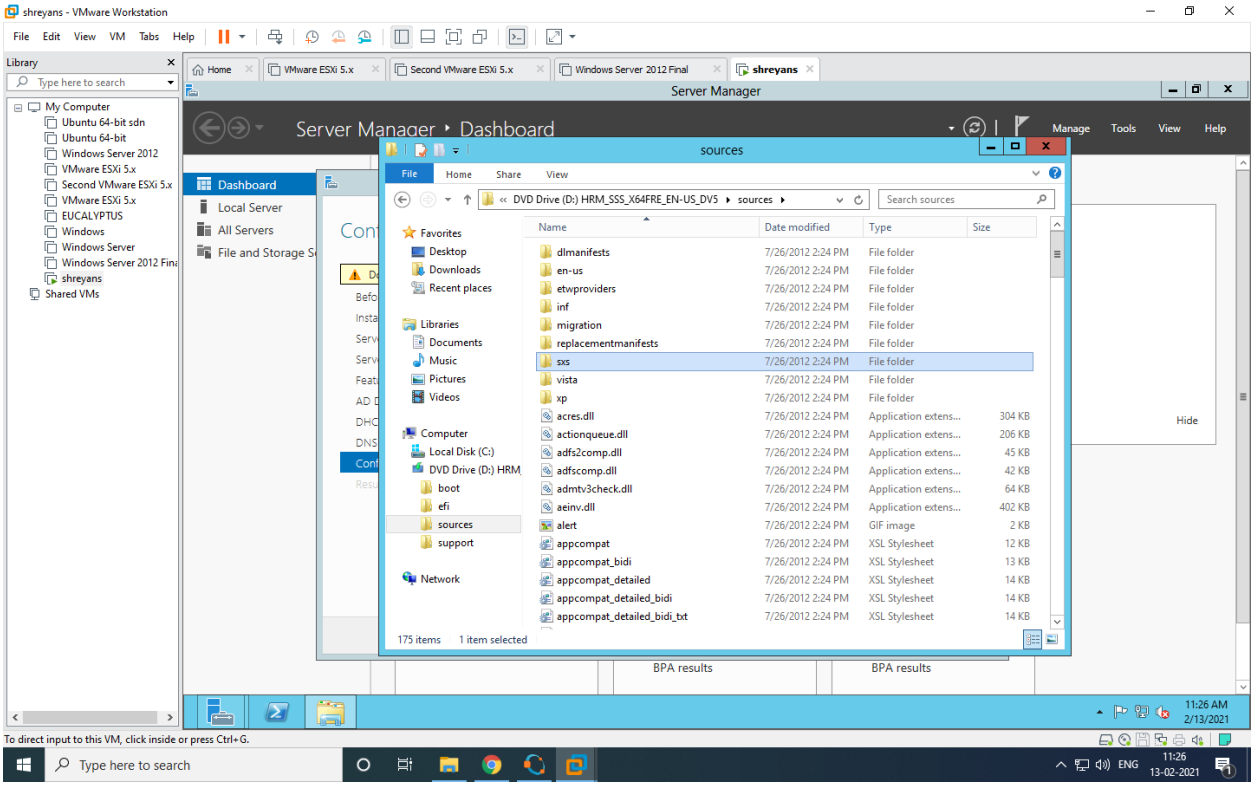
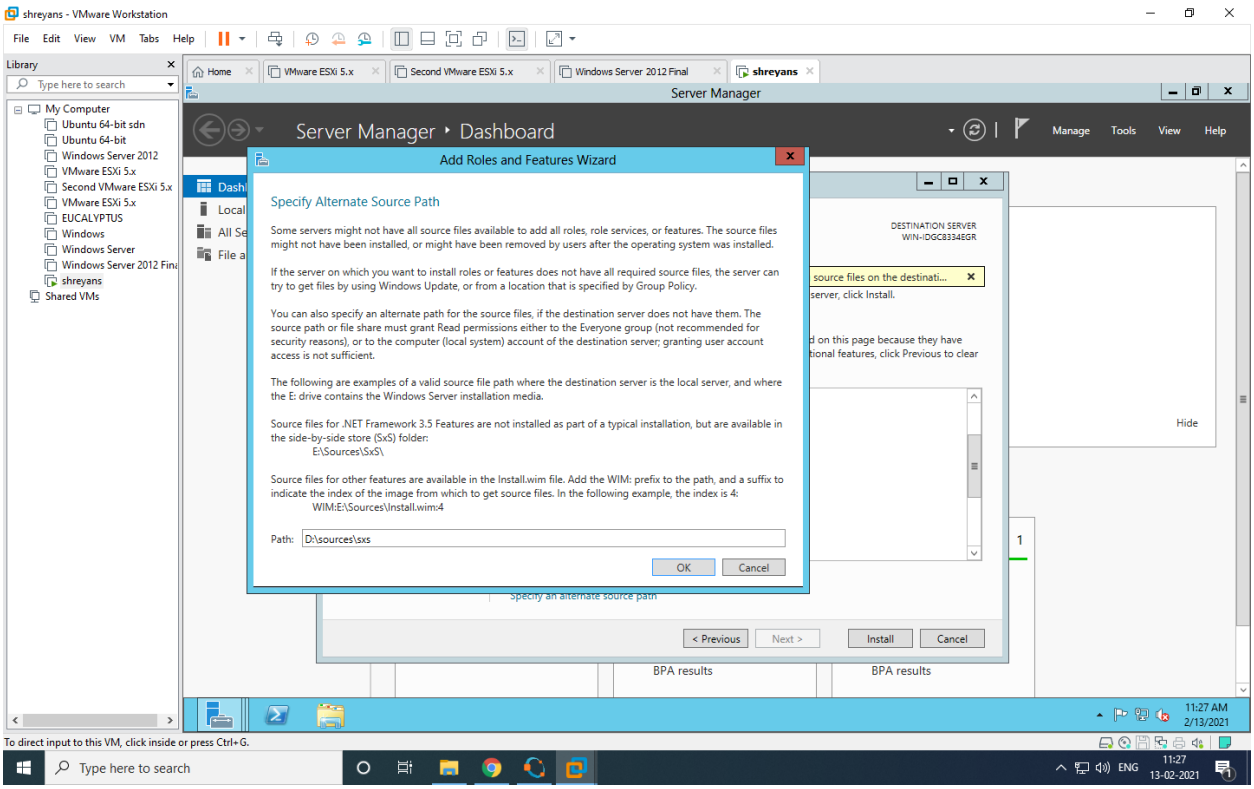
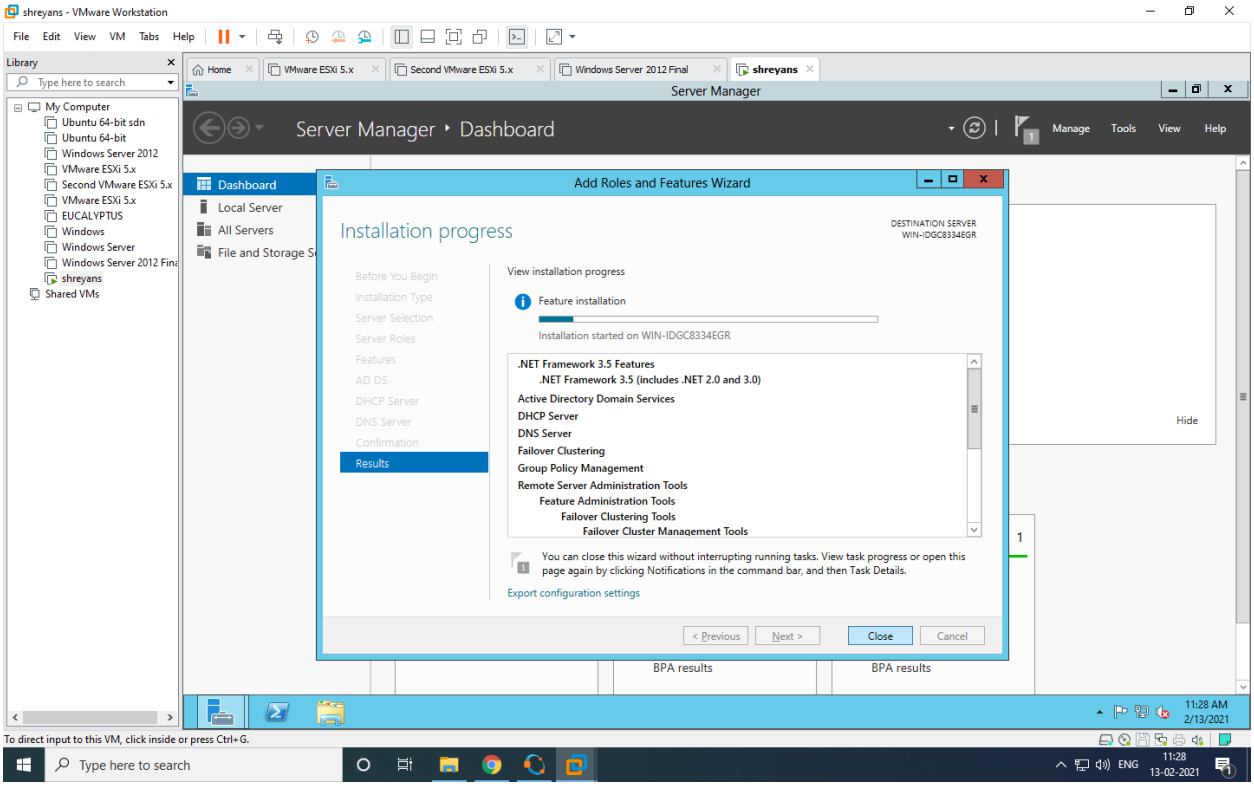
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager ‣ Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storage S
Add Roles and Features Wizard
Select features
DESTINATION SERVER
WIN-IDGC8334EGR
Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
DHCP Server
DNS Server
Confirmation
Results
Select one or more features to install on the selected server.
Features
.NET Framework 3.5 Features
.NET Framework 4.5 Features (Installed)
Background Intelligent Transfer Service (BITS)
BitLocker Drive Encryption
BitLocker Network Unlock
BranchCache
Client for NFS
Data Center Bridging
Enhanced Storage
Failover Clustering
Group Policy Management
Ink and Handwriting Services
Internet Printing Client
IP Address Management (IPAM) Server
Description
Failover Clustering allows multiple servers to work together to provide high availability of server roles. Failover Clustering is often used for File Services, virtual machines, database applications, and mail applications.
< Previous
Next >
Install
Cancel
BPA results
BPA results
Hide
11:17 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.
Type here to search

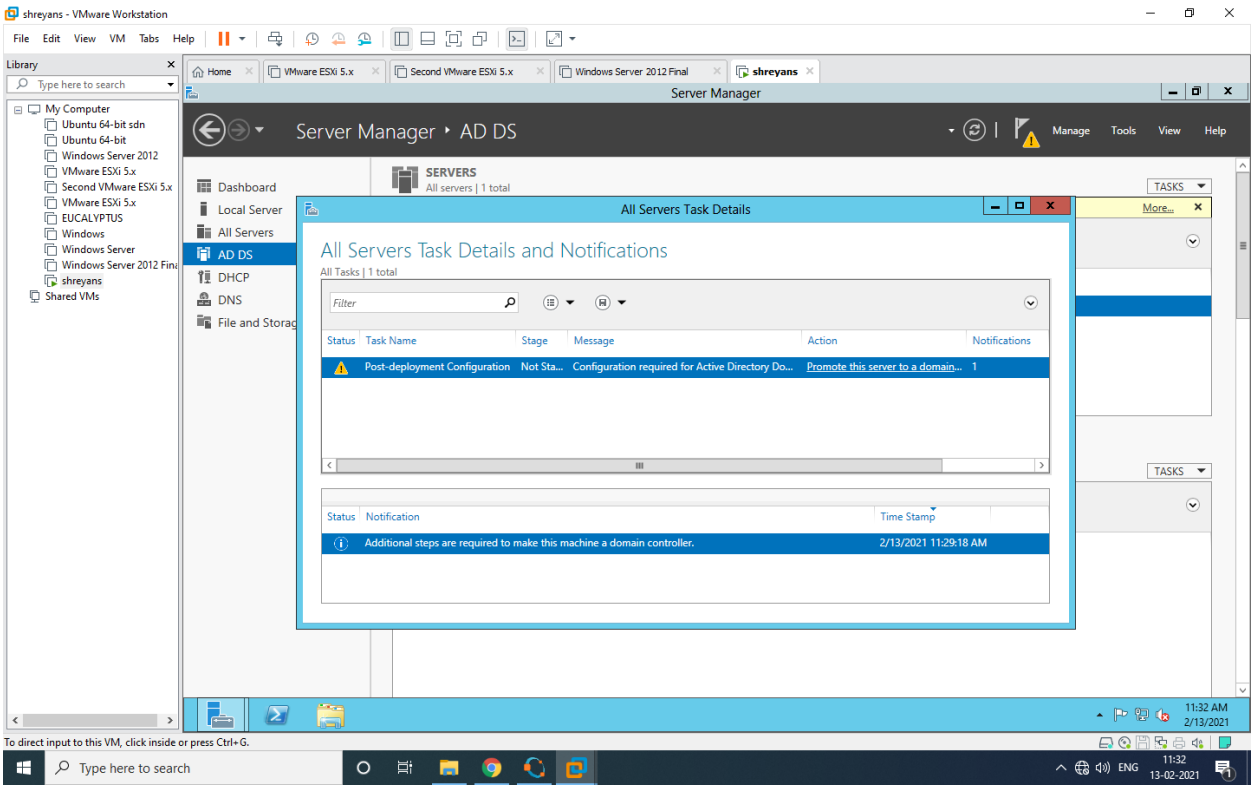

shreyans - VMware Workstation
File Edit View VM Tabs Help
Power
Removable Devices
Pause Ctrl+Shift+P
Send Ctrl+Alt+Del
Grab Input Ctrl+G
Snapshot
Capture Screen Ctrl+Alt+PrtScn
Manage
Reinstall VMware Tools...
Settings... Ctrl+D
CD/DVD (SATA)
Floppy
Network Adapter
Printer
Sound Card
Connect
Settings...
Server Manager
Add Roles and Features Wizard
Confirm installation selections
DESTINATION SERVER
WIN-IDGC8334EGR
Do you need to specify an alternate source path? One or more installation selections are missing source files on the destinati...
Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
DHCP Server
DNS Server
Confirmation
Results
To install the following roles, role services, or features on selected server, click Install.
Restart the destination server automatically if required
Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.
DNS Server
Failover Clustering
Group Policy Management
Remote Server Administration Tools
Feature Administration Tools
Failover Clustering Tools
Failover Cluster Management Tools
Failover Cluster Module for Windows PowerShell
Role Administration Tools
Export configuration settings
Specify an alternate source path
< Previous
Next >
Install
Cancel
BPA results
BPA results
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Type here to search
11:24 AM
2/13/2021
11:24
13-02-2021

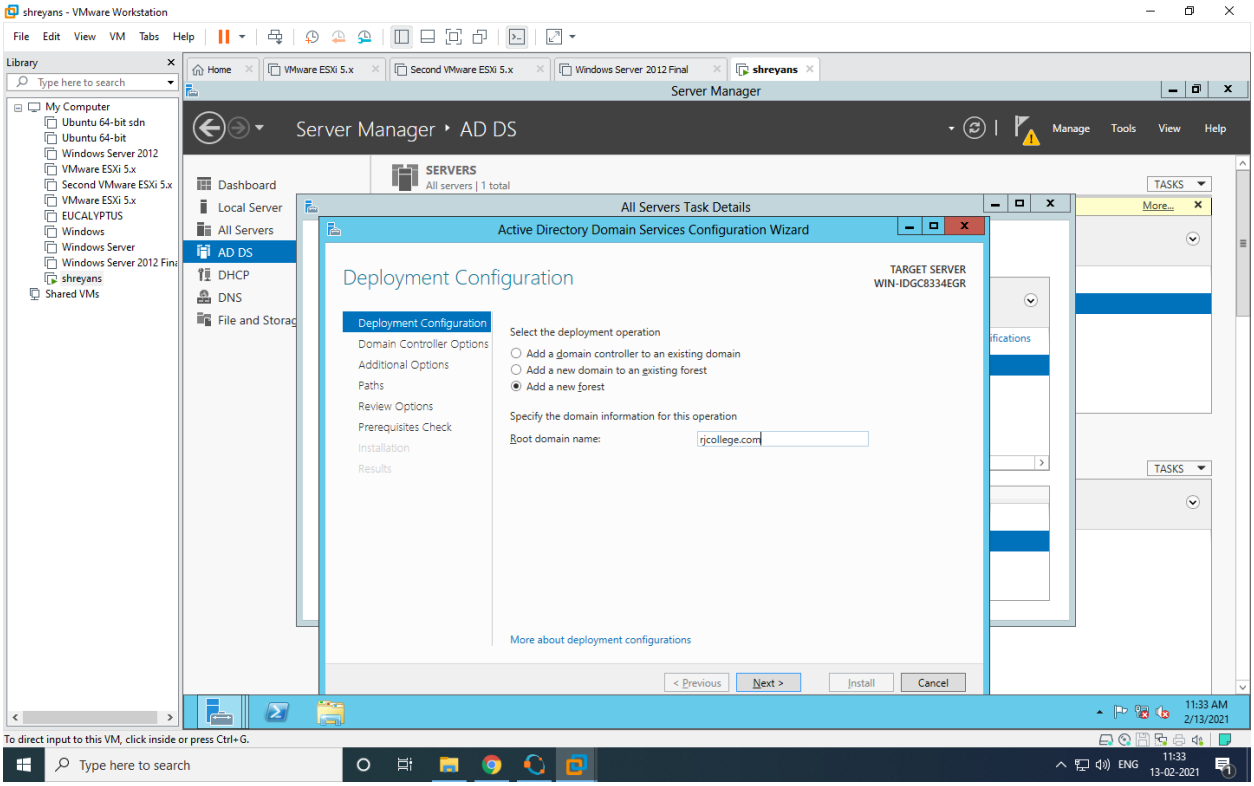

shreyans - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Final
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager • Dashboard
Dashboard
Local Server
All Servers
File and Storage Services
Add Roles and Features Wizard
Confirm installation selections
Do you need to specify an alternate source path? One or more installation selections are missing source files on the de
Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
DHCP Server
DNS Server
Confirmation
Results
To install the following roles, role services, or features on selected server, click Install.
Restart the destination server automatically if required
Optional features (such as administration tools) might be displayed on this page becaus
been selected automatically. If you do not want to install these optional features, click P
their check boxes.
DNS Server
Failover Clustering
Group Policy Management
Remote Server Administration Tools
Feature Administration Tools
Failover Clustering Tools
Failover Cluster Management Tools
Failover Cluster Module for Windows PowerShell
Role Administration Tools
Export configuration settings
Specify an alternate source path
< Previous
Next >
Install
Cancel
BPA results
BPA results
DVD Drive (D:) HRM_SSS_X...
Choose what to do with this disc.
Install or run program from your media
Run setup.exe
Published by Microsoft Corporation
Other choices
Open folder to view files
File Explorer
Take no action
Hide
To direct input to this VM, click inside or press Ctrl+G.
11:25 AM
2/13/2021

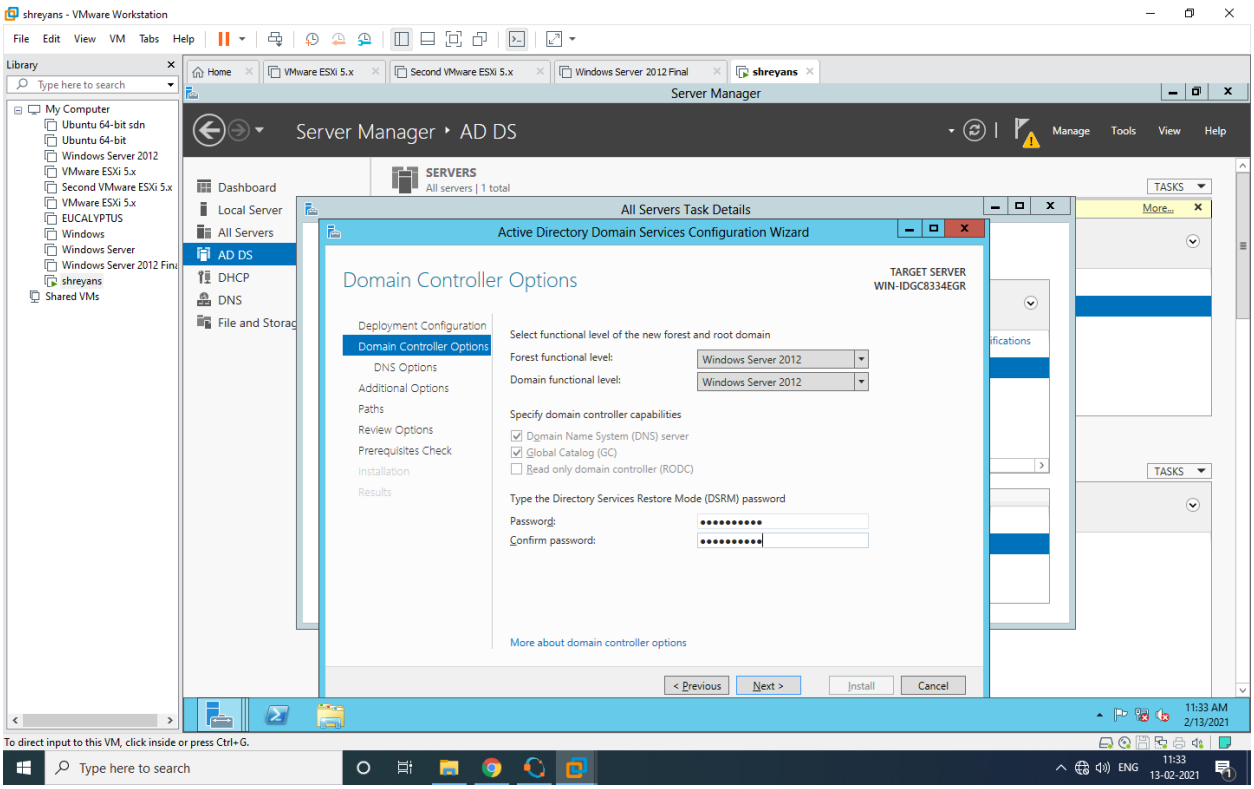

shreyans - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storage S
sources
File Home Share View
DVD Drive (D:) HRM_SSS_X64FRE_EN-US_DV5 • sources
Search sources
Favorites
Desktop
Downloads
Recent places
Libraries
Documents
Music
Pictures
Videos
Computer
Local Disk (C:)
DVD Drive (D:) HRM
boot
efi
sources
support
Network
Name
Date modified
Type
Size
dlmanifests 7/26/2012 2:24 PM File folder
en-us 7/26/2012 2:24 PM File folder
etwproviders 7/26/2012 2:24 PM File folder
inf 7/26/2012 2:24 PM File folder
migration 7/26/2012 2:24 PM File folder
replacementmanifests 7/26/2012 2:24 PM File folder
sxs 7/26/2012 2:24 PM File folder
vista 7/26/2012 2:24 PM File folder
xp 7/26/2012 2:24 PM File folder
acres.dll 7/26/2012 2:24 PM Application extens... 304 KB
actionqueue.dll 7/26/2012 2:24 PM Application extens... 206 KB
adfs2comp.dll 7/26/2012 2:24 PM Application extens... 45 KB
adfscomp.dll 7/26/2012 2:24 PM Application extens... 42 KB
admtv3check.dll 7/26/2012 2:24 PM Application extens... 64 KB
aeinv.dll 7/26/2012 2:24 PM Application extens... 402 KB
alert 7/26/2012 2:24 PM GIF image 2 KB
appcompat 7/26/2012 2:24 PM XSL Stylesheet 12 KB
appcompat_bidi 7/26/2012 2:24 PM XSL Stylesheet 13 KB
appcompat_detailed 7/26/2012 2:24 PM XSL Stylesheet 14 KB
appcompat_detailed_bidi 7/26/2012 2:24 PM XSL Stylesheet 14 KB
appcompat_detailed_bidi_txt 7/26/2012 2:24 PM XSL Stylesheet 14 KB
175 items 1 item selected
BPA results
BPA results
Hide
11:26 AM 2/13/2021
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG 11:26 13-02-2021

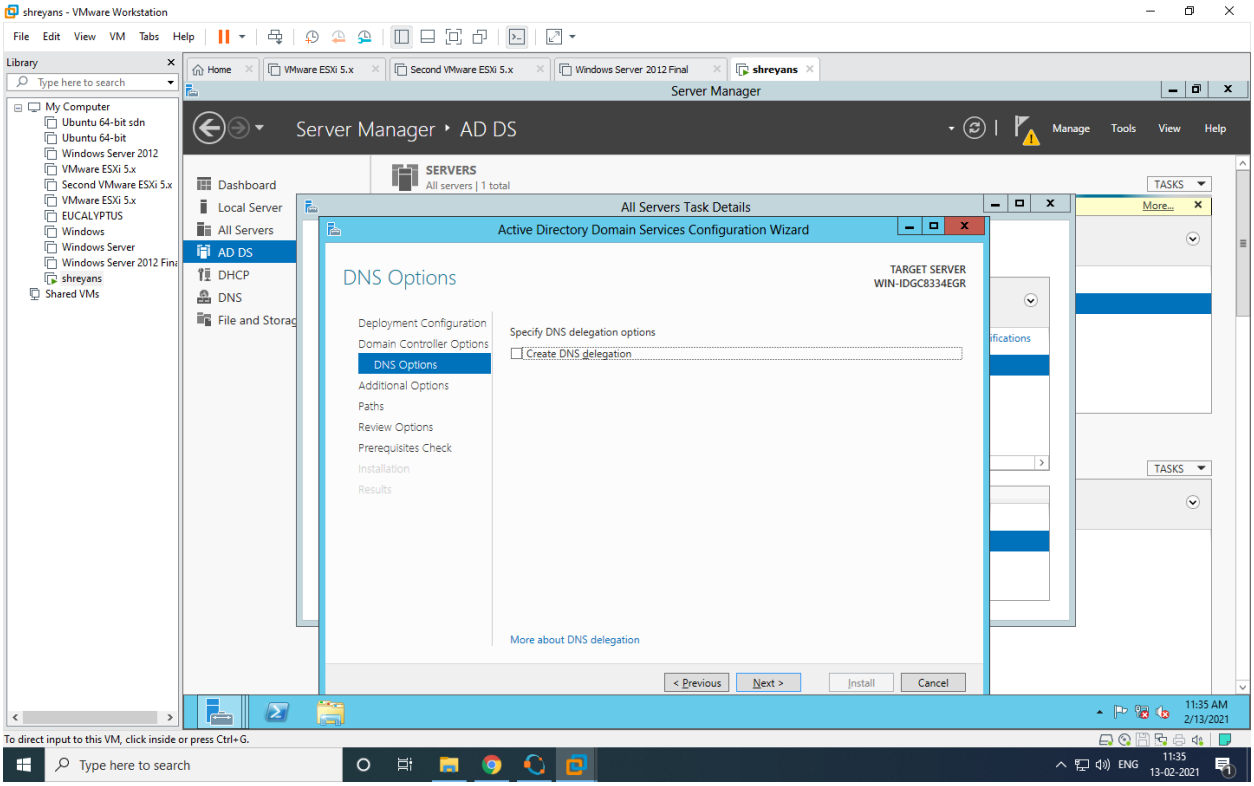

shreyans - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Add Roles and Features Wizard
Specify Alternate Source Path
Some servers might not have all source files available to add all roles, role services, or features. The source files might not have been installed, or might have been removed by users after the operating system was installed.
If the server on which you want to install roles or features does not have all required source files, the server can try to get files by using Windows Update, or from a location that is specified by Group Policy.
You can also specify an alternate path for the source files, if the destination server does not have them. The source path or file share must grant Read permissions either to the Everyone group (not recommended for security reasons), or to the computer (local system) account of the destination server; granting user account access is not sufficient.
The following are examples of a valid source file path where the destination server is the local server, and where the E: drive contains the Windows Server installation media.
Source files for .NET Framework 3.5 Features are not installed as part of a typical installation, but are available in the side-by-side store (SxS) folder:
E:\Sources\SxS\
Source files for other features are available in the Install.wim file. Add the WIM: prefix to the path, and a suffix to indicate the index of the image from which to get source files. In the following example, the index is 4:
WIM:E:\Sources\Install.wim:4
Path: D:\sources\sxs
OK
Cancel
DESTINATION SERVER
WIN-IDGC8334EGR
source files on the destinati...
server, click Install.
Specify an alternate source path
< Previous
Next >
Install
Cancel
BPA results
BPA results
Hide
11:27 AM 2/13/2021
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG 11:27 13-02-2021

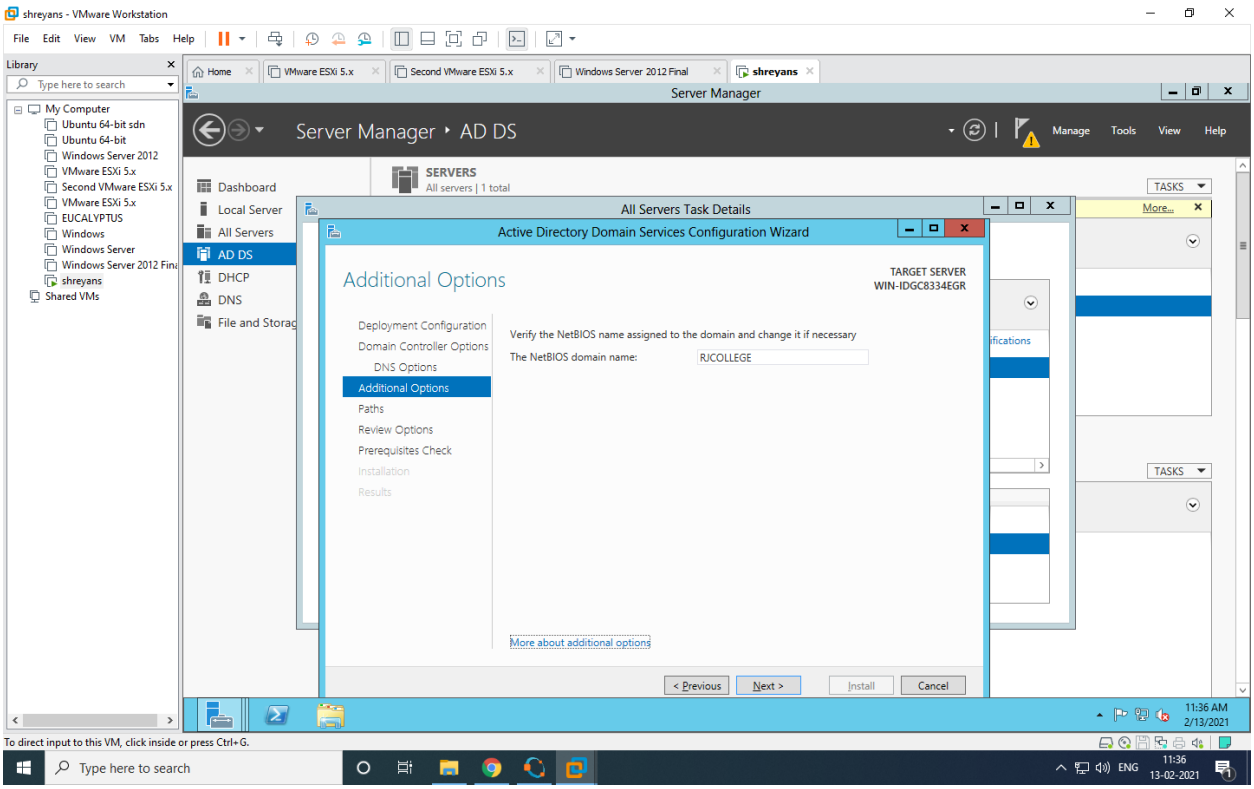

shreyans - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager • Dashboard
Manage Tools View Help
Dashboard
Local Server
All Servers
File and Storage S
Add Roles and Features Wizard
Installation progress
DESTINATION SERVER
WIN-IDGC8334EGR
Before You Begin
Installation Type
Server Selection
Server Roles
Features
AD DS
DHCP Server
DNS Server
Confirmation
Results
View installation progress
Feature installation
Installation started on WIN-IDGC8334EGR
.NET Framework 3.5 Features
.NET Framework 3.5 (includes .NET 2.0 and 3.0)
Active Directory Domain Services
DHCP Server
DNS Server
Failover Clustering
Group Policy Management
Remote Server Administration Tools
Feature Administration Tools
Failover Clustering Tools
Failover Cluster Management Tools
You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.
Export configuration settings
< Previous
Next >
Close
Cancel
Hide
BPA results
BPA results
11:28 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
11:28
13-02-2021

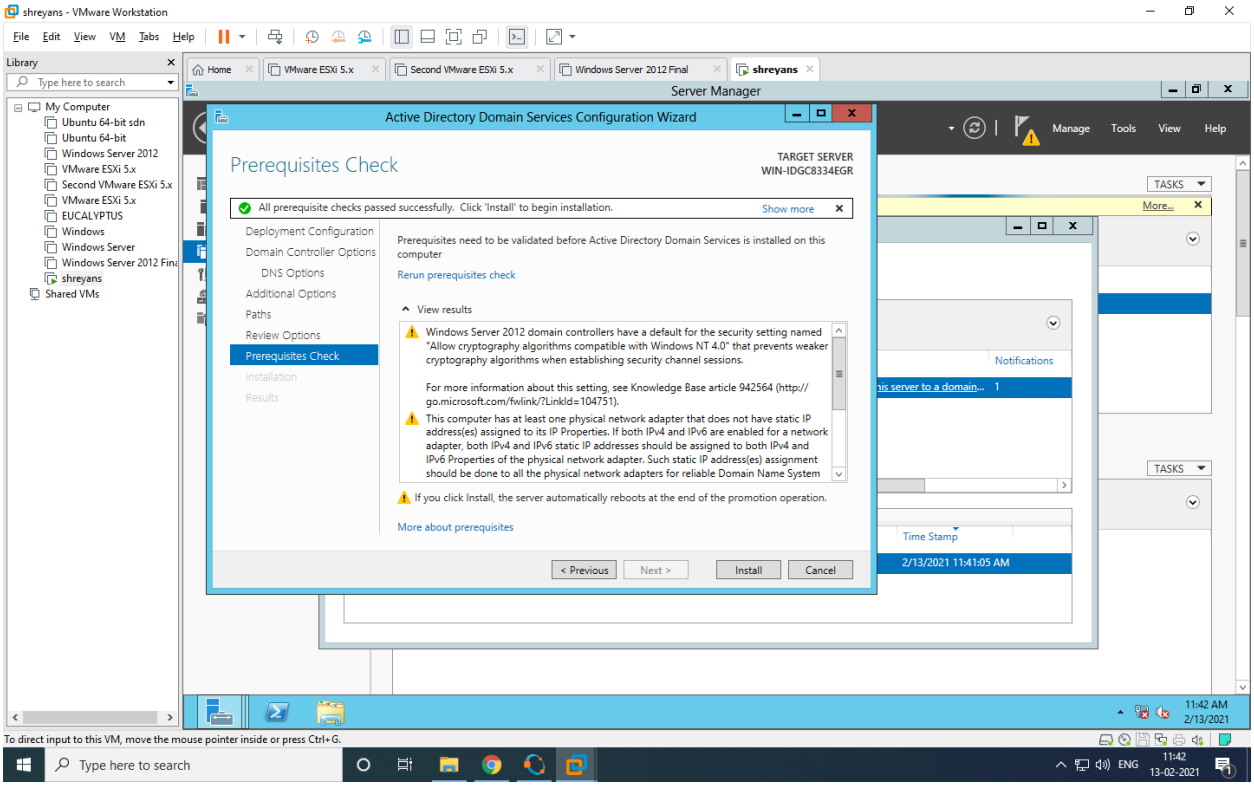

shreyans - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager • AD DS
Manage Tools View Help
Dashboard
Local Server
All Servers
AD DS
DHCP
DNS
File and Storag
SERVERS
All servers | 1 total
TASKS
More...
All Servers Task Details
All Servers Task Details and Notifications
All Tasks | 1 total
Filter
Status
Task Name
Stage
Message
Action
Notifications
Post-deployment Configuration
Not Sta...
Configuration required for Active Directory Do...
Promote this server to a domain...
1
Status
Notification
Time Stamp
Additional steps are required to make this machine a domain controller.
2/13/2021 11:29:18 AM
TASKS
11:32 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
11:32
13-02-2021

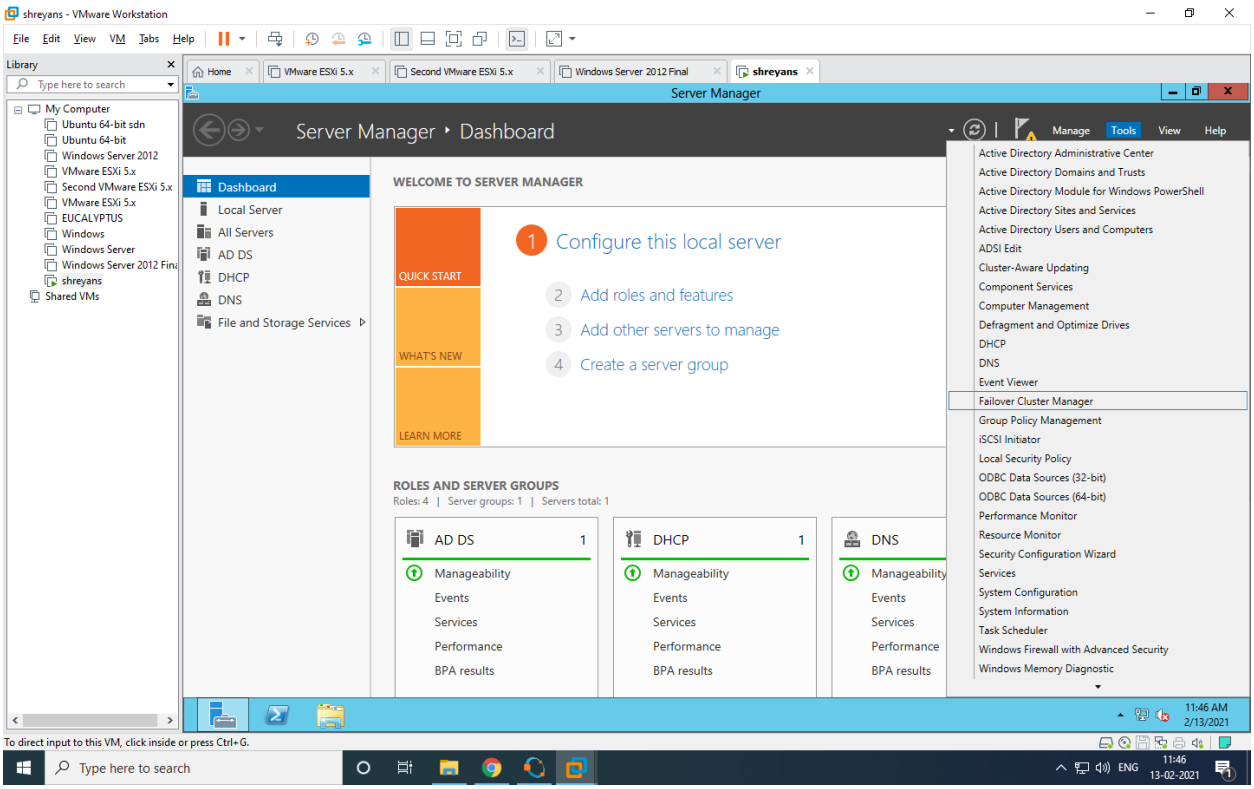

shreyans - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager • AD DS
Manage Tools View Help
Dashboard
Local Server
All Servers
AD DS
DHCP
DNS
File and Storag
SERVERS
All servers | 1 total
TASKS
More...
All Servers Task Details
Active Directory Domain Services Configuration Wizard
Deployment Configuration
TARGET SERVER
WIN-IDGC8334EGR
Deployment Configuration
Domain Controller Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Select the deployment operation
Add a domain controller to an existing domain
Add a new domain to an existing forest
Add a new forest
Specify the domain information for this operation
Root domain name:
rjcollege.com
More about deployment configurations
< Previous
Next >
Install
Cancel
11:33 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
11:33
13-02-2021


shreyans - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager • AD DS
Manage Tools View Help
Dashboard
Local Server
All Servers
AD DS
DHCP
DNS
File and Storag
SERVERS
All servers | 1 total
TASKS
More...
All Servers Task Details
Active Directory Domain Services Configuration Wizard
Domain Controller Options
TARGET SERVER
WIN-IDGC8334EGR
Deployment Configuration
Domain Controller Options
DNS Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Select functional level of the new forest and root domain
Forest functional level:
Windows Server 2012
Domain functional level:
Windows Server 2012
Specify domain controller capabilities
Domain Name System (DNS) server
Global Catalog (GC)
Read only domain controller (RODC)
Type the Directory Services Restore Mode (DSRM) password
Password:
Confirm password:
More about domain controller options
< Previous
Next >
Install
Cancel
11:33 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
11:33
13-02-2021


shreyans - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager • AD DS
Manage Tools View Help
Dashboard
Local Server
All Servers
AD DS
DHCP
DNS
File and Storag
SERVERS
All servers | 1 total
TASKS
More...
All Servers Task Details
Active Directory Domain Services Configuration Wizard
DNS Options
TARGET SERVER
WIN-IDGC8334EGR
Deployment Configuration
Domain Controller Options
DNS Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Specify DNS delegation options
Create DNS delegation
More about DNS delegation
< Previous
Next >
Install
Cancel
11:35 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
11:35
13-02-2021


shreyans - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager • AD DS
Manage Tools View Help
Dashboard
Local Server
All Servers
AD DS
DHCP
DNS
File and Storag
SERVERS
All servers | 1 total
TASKS
More...
All Servers Task Details
Active Directory Domain Services Configuration Wizard
Additional Options
TARGET SERVER
WIN-IDGC8334EGR
Deployment Configuration
Domain Controller Options
DNS Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Verify the NetBIOS name assigned to the domain and change it if necessary
The NetBIOS domain name:
RJCOLLEGE
More about additional options
< Previous
Next >
Install
Cancel
11:36 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
11:36
13-02-2021


shreyans - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Active Directory Domain Services Configuration Wizard
Prerequisites Check
TARGET SERVER
WIN-IDGC8334EGR
All prerequisite checks passed successfully. Click 'Install' to begin installation.
Show more
Deployment Configuration
Domain Controller Options
DNS Options
Additional Options
Paths
Review Options
Prerequisites Check
Installation
Results
Prerequisites need to be validated before Active Directory Domain Services is installed on this computer
Rerun prerequisites check
View results
Windows Server 2012 domain controllers have a default for the security setting named "Allow cryptography algorithms compatible with Windows NT 4.0" that prevents weaker cryptography algorithms when establishing security channel sessions.
For more information about this setting, see Knowledge Base article 942564 (http://go.microsoft.com/fwlink/?LinkId=104751).
This computer has at least one physical network adapter that does not have static IP address(es) assigned to its IP Properties. If both IPv4 and IPv6 are enabled for a network adapter, both IPv4 and IPv6 static IP addresses should be assigned to both IPv4 and IPv6 Properties of the physical network adapter. Such static IP address(es) assignment should be done to all the physical network adapters for reliable Domain Name System
If you click Install, the server automatically reboots at the end of the promotion operation.
More about prerequisites
< Previous
Next >
Install
Cancel
Manage
Tools
View
Help
TASKS
More...
Notifications
Time Stamp
2/13/2021 11:41:05 AM
11:42 AM
2/13/2021
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Type here to search
ENG
11:42
13-02-2021


shreyans - VMware Workstation
File Edit View VM Tabs Help
Library
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My Computer
Ubuntu 64-bit sdn
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Windows Server 2012
VMware ESXi 5.x
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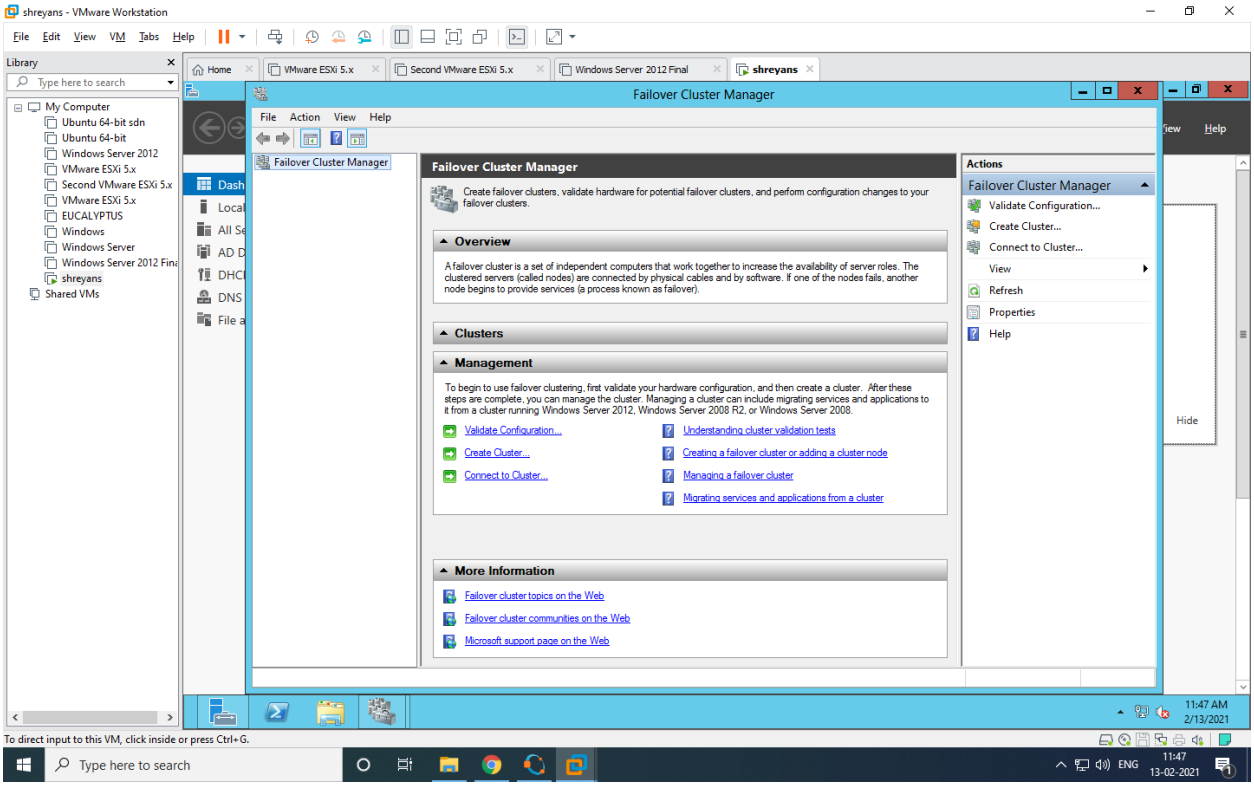
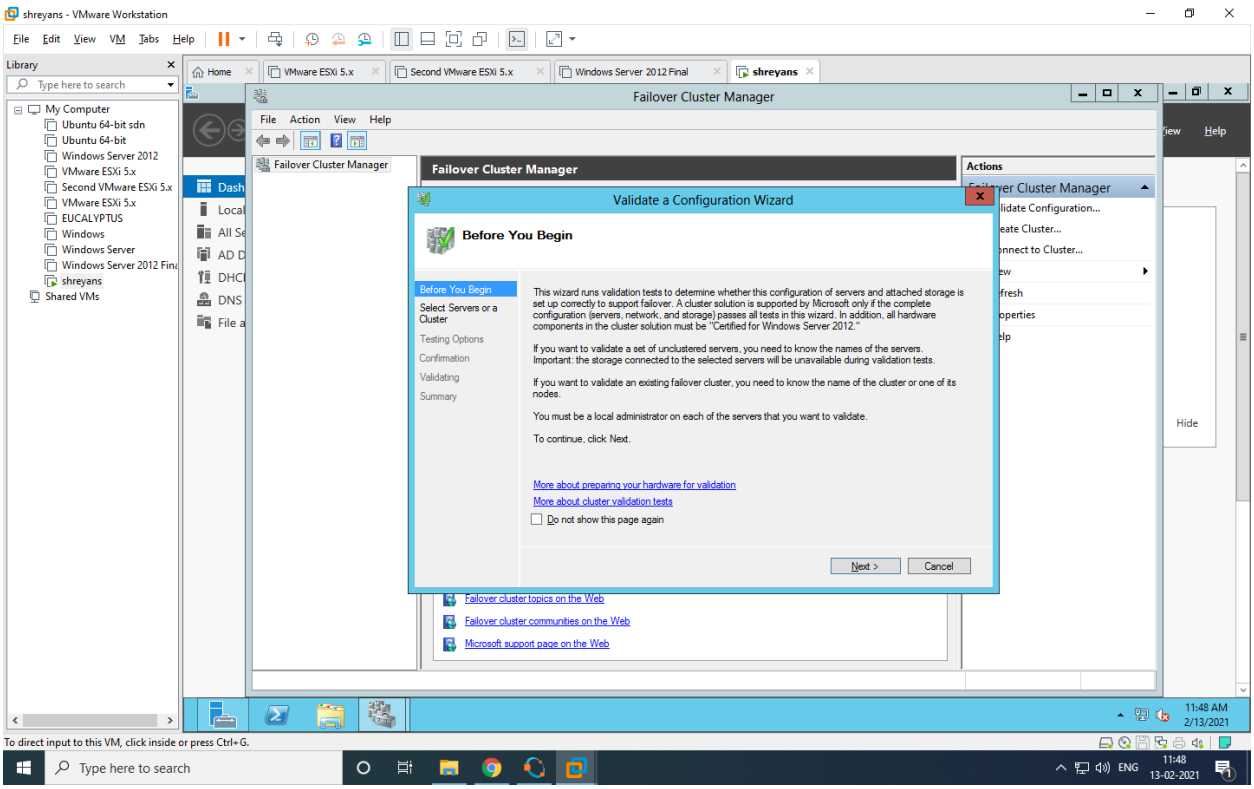
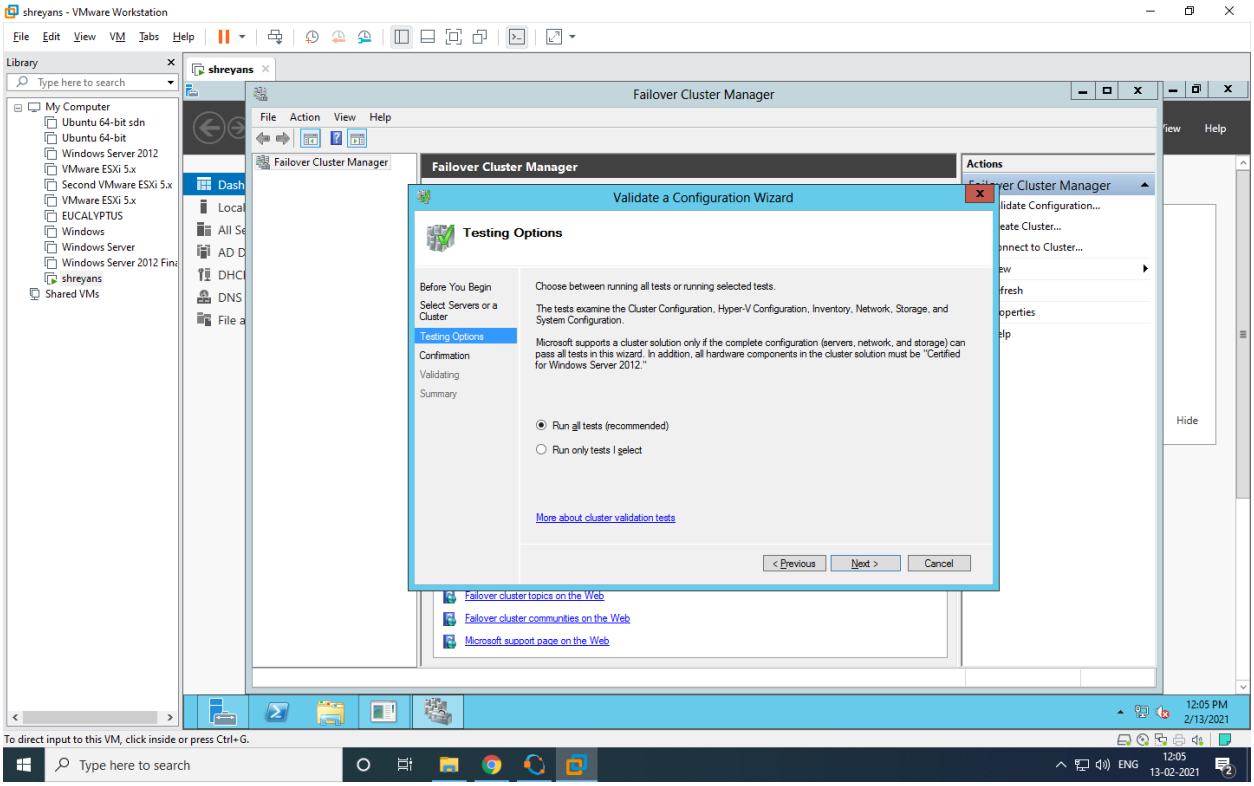
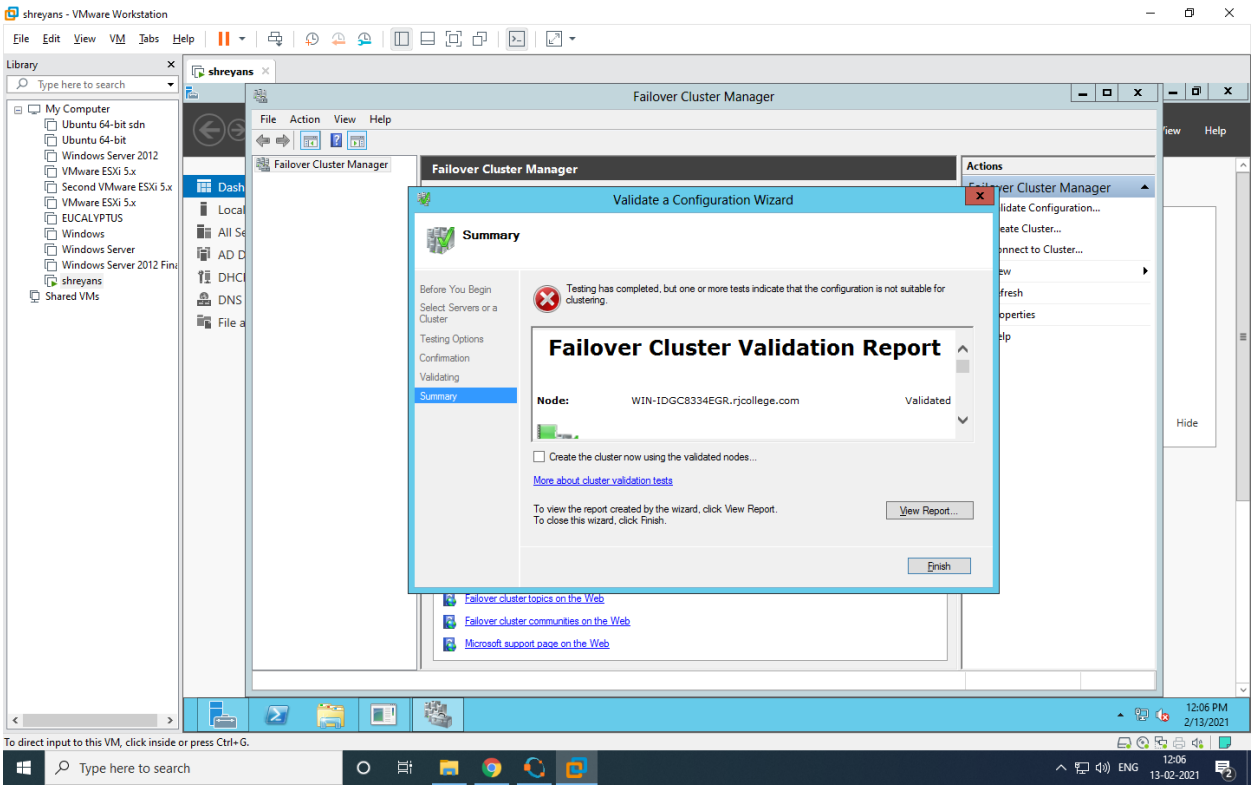
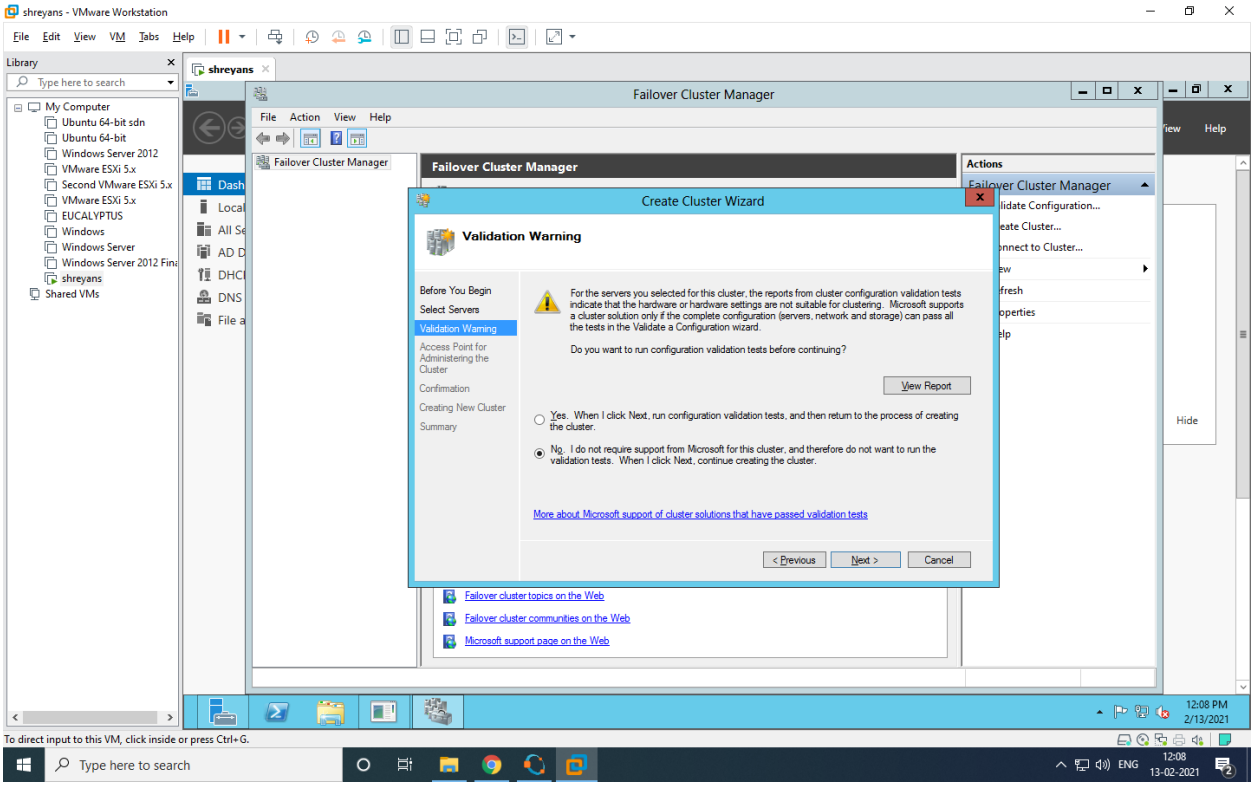
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Server Manager
Server Manager • Dashboard
Manage
Tools
View
Help
Dashboard
Local Server
All Servers
AD DS
DHCP
DNS
File and Storage Services
WELCOME TO SERVER MANAGER
QUICK START
WHAT'S NEW
LEARN MORE
1 Configure this local server
2 Add roles and features
3 Add other servers to manage
4 Create a server group
ROLES AND SERVER GROUPS
Roles: 4 | Server groups: 1 | Servers total: 1
AD DS 1
DHCP 1
DNS
Manageability
Events
Services
Performance
BPA results
Active Directory Administrative Center
Active Directory Domains and Trusts
Active Directory Module for Windows PowerShell
Active Directory Sites and Services
Active Directory Users and Computers
ADSI Edit
Cluster-Aware Updating
Component Services
Computer Management
Defragment and Optimize Drives
DHCP
DNS
Event Viewer
Failover Cluster Manager
Group Policy Management
iSCSI Initiator
Local Security Policy
ODBC Data Sources (32-bit)
ODBC Data Sources (64-bit)
Performance Monitor
Resource Monitor
Security Configuration Wizard
Services
System Configuration
System Information
Task Scheduler
Windows Firewall with Advanced Security
Windows Memory Diagnostic
11:46 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
11:46
13-02-2021

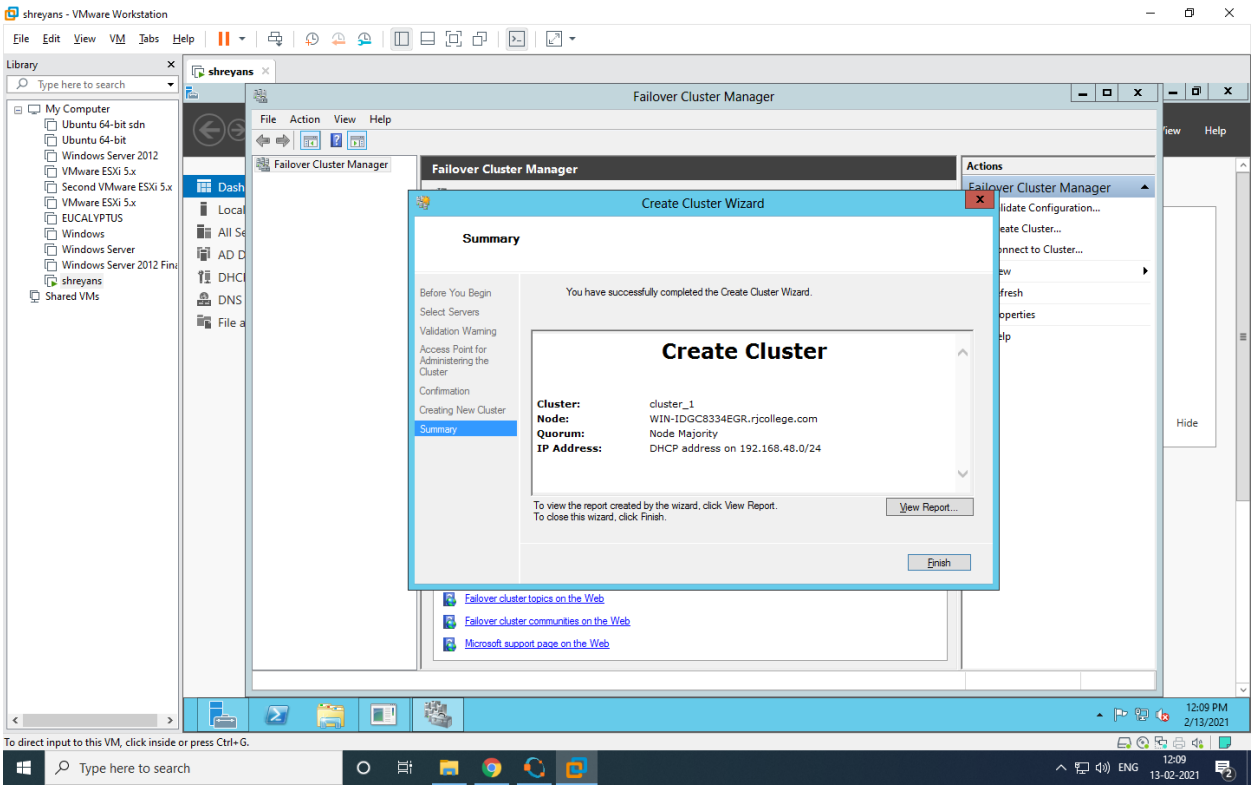

shreyans - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Failover Cluster Manager
File Action View Help
Failover Cluster Manager
Failover Cluster Manager
Create failover clusters, validate hardware for potential failover clusters, and perform configuration changes to your failover clusters.
Overview
A failover cluster is a set of independent computers that work together to increase the availability of server roles. The clustered servers (called nodes) are connected by physical cables and by software. If one of the nodes fails, another node begins to provide services (a process known as failover).
Clusters
Management
To begin to use failover clustering, first validate your hardware configuration, and then create a cluster. After these steps are complete, you can manage the cluster. Managing a cluster can include migrating services and applications to it from a cluster running Windows Server 2012, Windows Server 2008 R2, or Windows Server 2008.
Validate Configuration...
Create Cluster...
Connect to Cluster...
Understanding cluster validation tests
Creating a failover cluster or adding a cluster node
Managing a failover cluster
Migrating services and applications from a cluster
More Information
Failover cluster topics on the Web
Failover cluster communities on the Web
Microsoft support page on the Web
Actions
Failover Cluster Manager
Validate Configuration...
Create Cluster...
Connect to Cluster...
View
Refresh
Properties
Help
Hide
11:47 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
11:47
13-02-2021


shreyans - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Ubuntu 64-bit sdn
Ubuntu 64-bit
Windows Server 2012
VMware ESXi 5.x
Second VMware ESXi 5.x
VMware ESXi 5.x
EUCALYPTUS
Windows
Windows Server
Windows Server 2012 Fina
shreyans
Shared VMs
Home
VMware ESXi 5.x
Second VMware ESXi 5.x
Windows Server 2012 Final
shreyans
Failover Cluster Manager
File Action View Help
Failover Cluster Manager
Failover Cluster Manager
Validate a Configuration Wizard
Before You Begin
Before You Begin
Select Servers or a Cluster
Testing Options
Confirmation
Validating
Summary
This wizard runs validation tests to determine whether this configuration of servers and attached storage is set up correctly to support failover. A cluster solution is supported by Microsoft only if the complete configuration (servers, network, and storage) passes all tests in this wizard. In addition, all hardware components in the cluster solution must be "Certified for Windows Server 2012."
If you want to validate a set of unclustered servers, you need to know the names of the servers.
Important: the storage connected to the selected servers will be unavailable during validation tests.
If you want to validate an existing failover cluster, you need to know the name of the cluster or one of its nodes.
You must be a local administrator on each of the servers that you want to validate.
To continue, click Next.
More about preparing your hardware for validation
More about cluster validation tests
Do not show this page again
Next >
Cancel
Failover cluster topics on the Web
Failover cluster communities on the Web
Microsoft support page on the Web
Actions
Hide
11:48 AM
2/13/2021
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
11:48
13-02-2021


shreyans - VMware Workstation
Failover Cluster Manager
Validate a Configuration Wizard
Testing Options
Before You Begin
Select Servers or a Cluster
Testing Options
Confirmation
Validating
Summary
Choose between running all tests or running selected tests.
The tests examine the Cluster Configuration, Hyper-V Configuration, Inventory, Network, Storage, and System Configuration.
Microsoft supports a cluster solution only if the complete configuration (servers, network, and storage) can pass all tests in this wizard. In addition, all hardware components in the cluster solution must be "Certified for Windows Server 2012."
Run all tests (recommended)
Run only tests I select
More about cluster validation tests
< Previous
Next >
Cancel
Failover cluster topics on the Web
Failover cluster communities on the Web
Microsoft support page on the Web
Actions
12:05 PM
2/13/2021
12:05
13-02-2021


shreyans - VMware Workstation
Failover Cluster Manager
Validate a Configuration Wizard
Summary
Before You Begin
Select Servers or a Cluster
Testing Options
Confirmation
Validating
Summary
Testing has completed, but one or more tests indicate that the configuration is not suitable for clustering.
Failover Cluster Validation Report
Node: WIN-IDGC8334EGR.rjcollege.com Validated
Create the cluster now using the validated nodes...
More about cluster validation tests
To view the report created by the wizard, click View Report.
To close this wizard, click Finish.
View Report...
Finish
Failover cluster topics on the Web
Failover cluster communities on the Web
Microsoft support page on the Web
Actions
12:06 PM
2/13/2021
12:06
13-02-2021

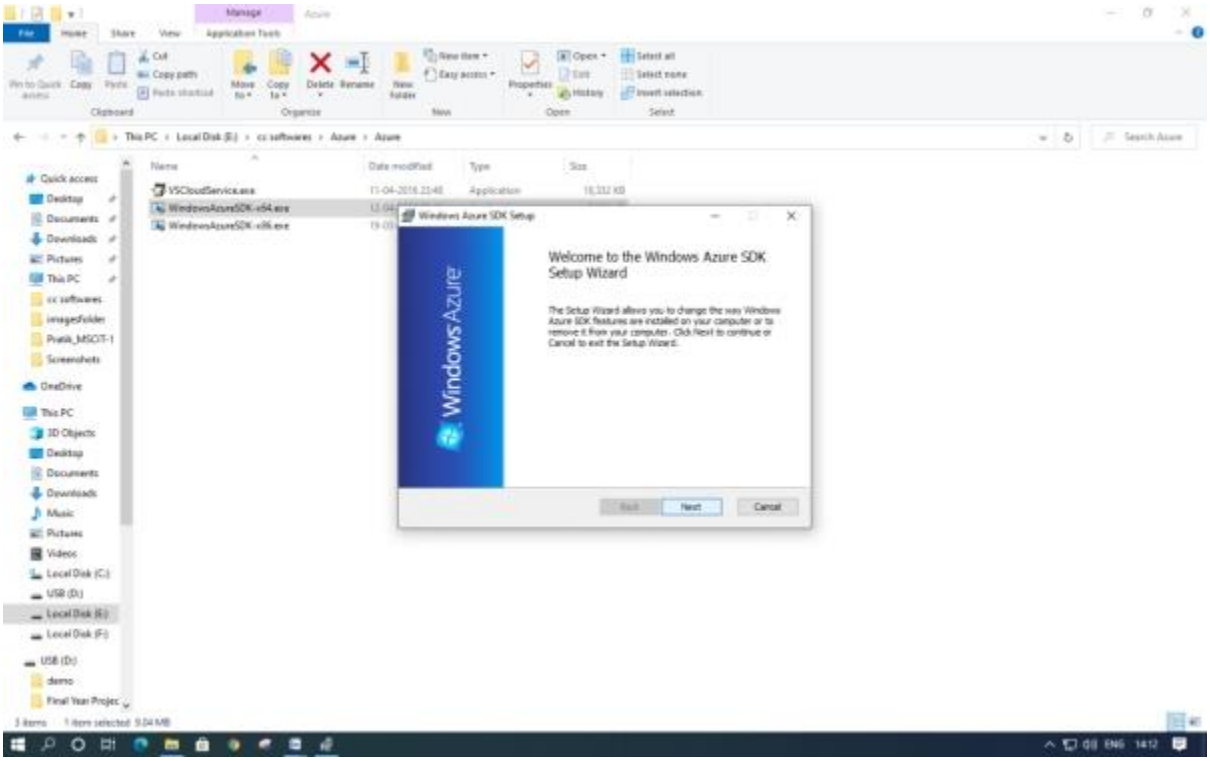

shreyans - VMware Workstation
Failover Cluster Manager
Create Cluster Wizard
Validation Warning
Before You Begin
Select Servers
Validation Warning
Access Point for Administering the Cluster
Confirmation
Creating New Cluster
Summary
For the servers you selected for this cluster, the reports from cluster configuration validation tests indicate that the hardware or hardware settings are not suitable for clustering. Microsoft supports a cluster solution only if the complete configuration (servers, network and storage) can pass all the tests in the Validate a Configuration wizard.
Do you want to run configuration validation tests before continuing?
View Report
Yes. When I click Next, run configuration validation tests, and then return to the process of creating the cluster.
No. I do not require support from Microsoft for this cluster, and therefore do not want to run the validation tests. When I click Next, continue creating the cluster.
More about Microsoft support of cluster solutions that have passed validation tests
< Previous
Next >
Cancel
Failover cluster topics on the Web
Failover cluster communities on the Web
Microsoft support page on the Web
Actions
Hide
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
12:08 PM
2/13/2021
13-02-2021

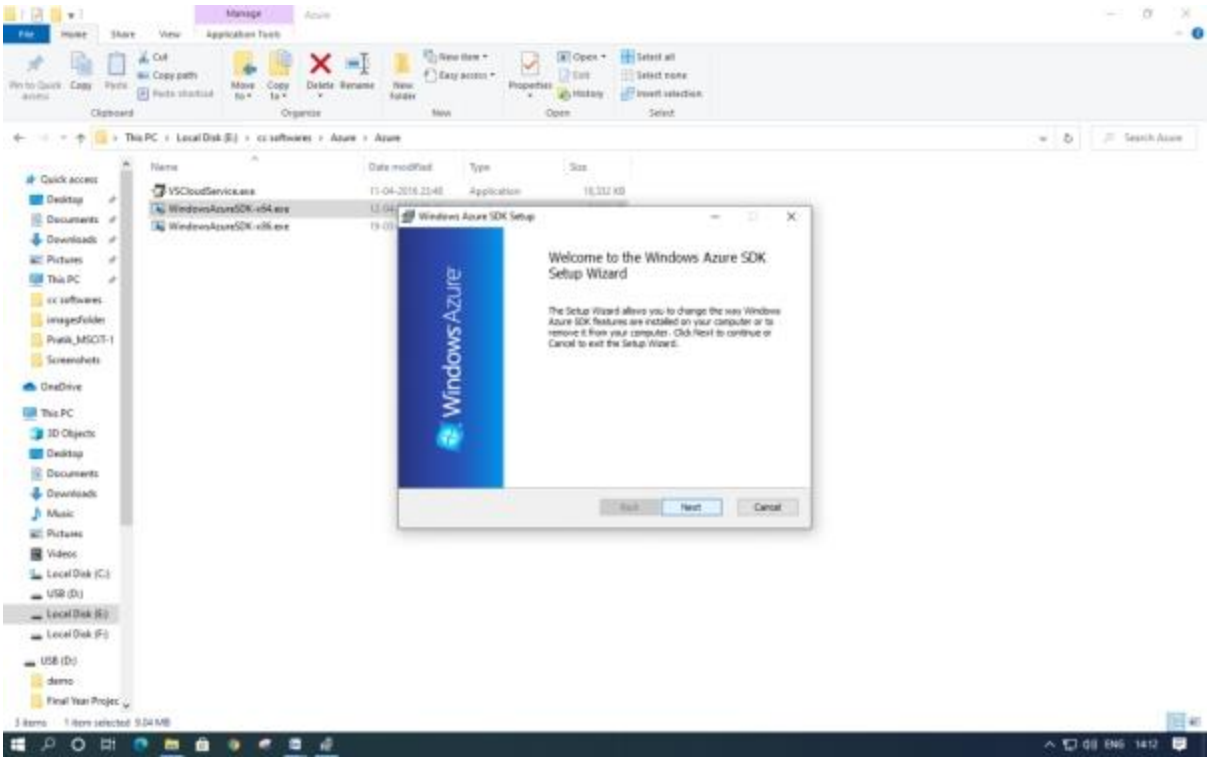

shreyans - VMware Workstation
Failover Cluster Manager
Create Cluster Wizard
Summary
Before You Begin
Select Servers
Validation Warning
Access Point for Administering the Cluster
Confirmation
Creating New Cluster
Summary
You have successfully completed the Create Cluster Wizard.
Create Cluster
Cluster: cluster_1
Node: WIN-IDGC8334EGR.rjcollege.com
Quorum: Node Majority
IP Address: DHCP address on 192.168.48.0/24
To view the report created by the wizard, click View Report.
To close this wizard, click Finish.
View Report...
Finish
Failover cluster topics on the Web
Failover cluster communities on the Web
Microsoft support page on the Web
Actions
Hide
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
12:09 PM
2/13/2021
13-02-2021

Practical No. 2

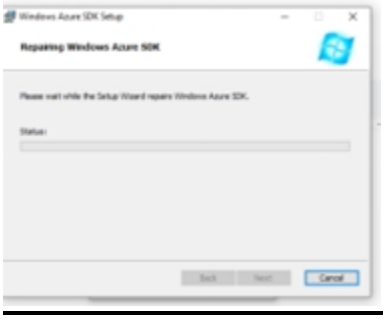
Developing applications for Windows Azure

First install VScloudService.exe and WindowAzureSDK-x64.exe

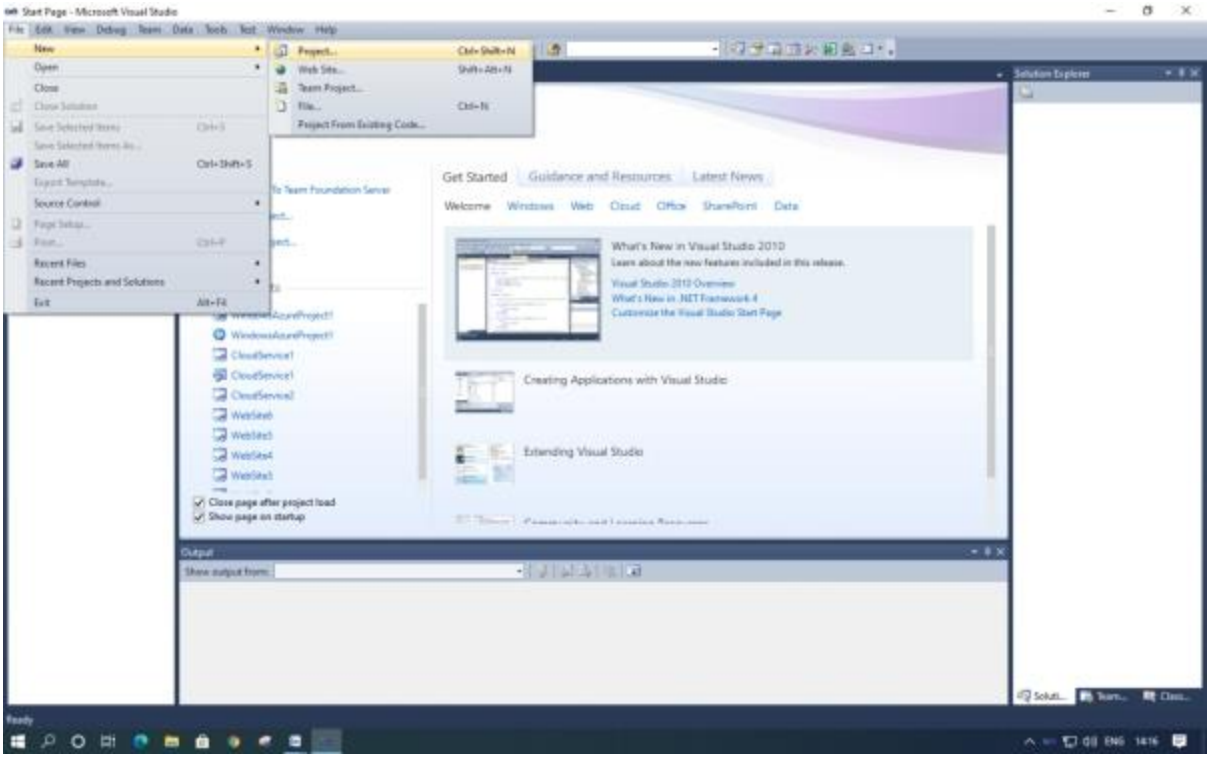


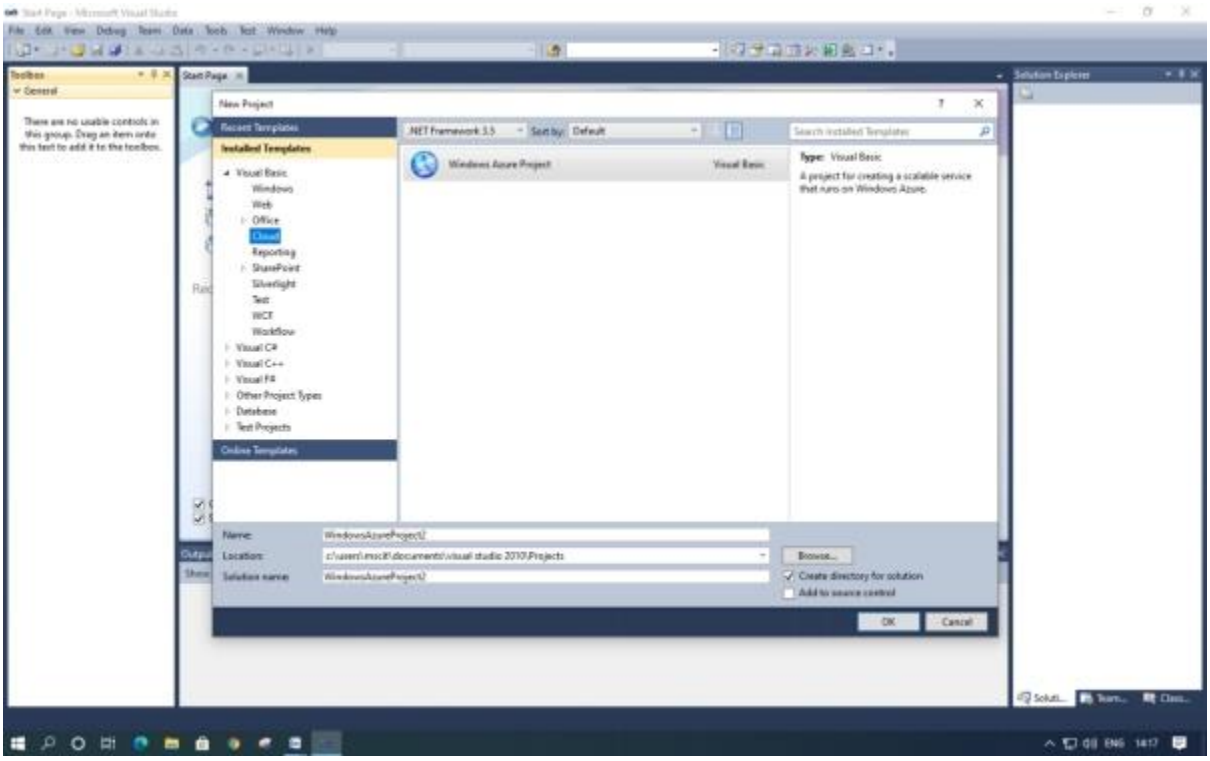


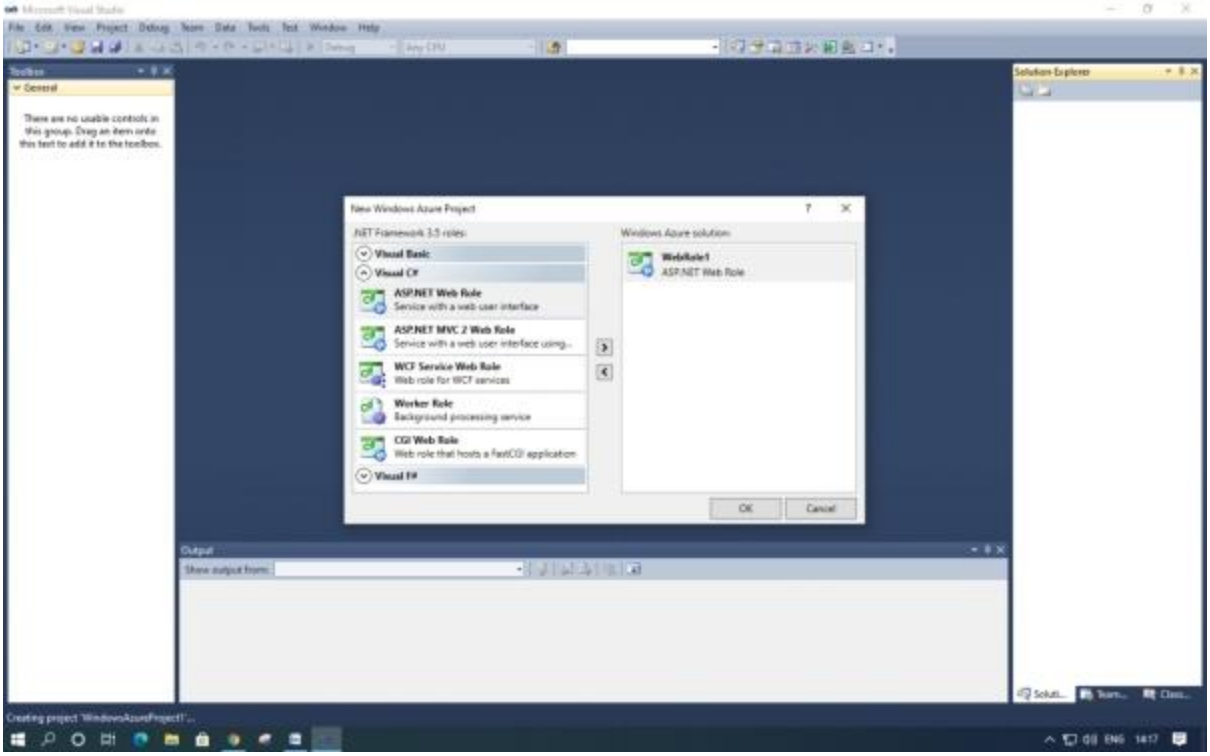
First install VScloudService.exe and WindowAzureSDK-x64.exe

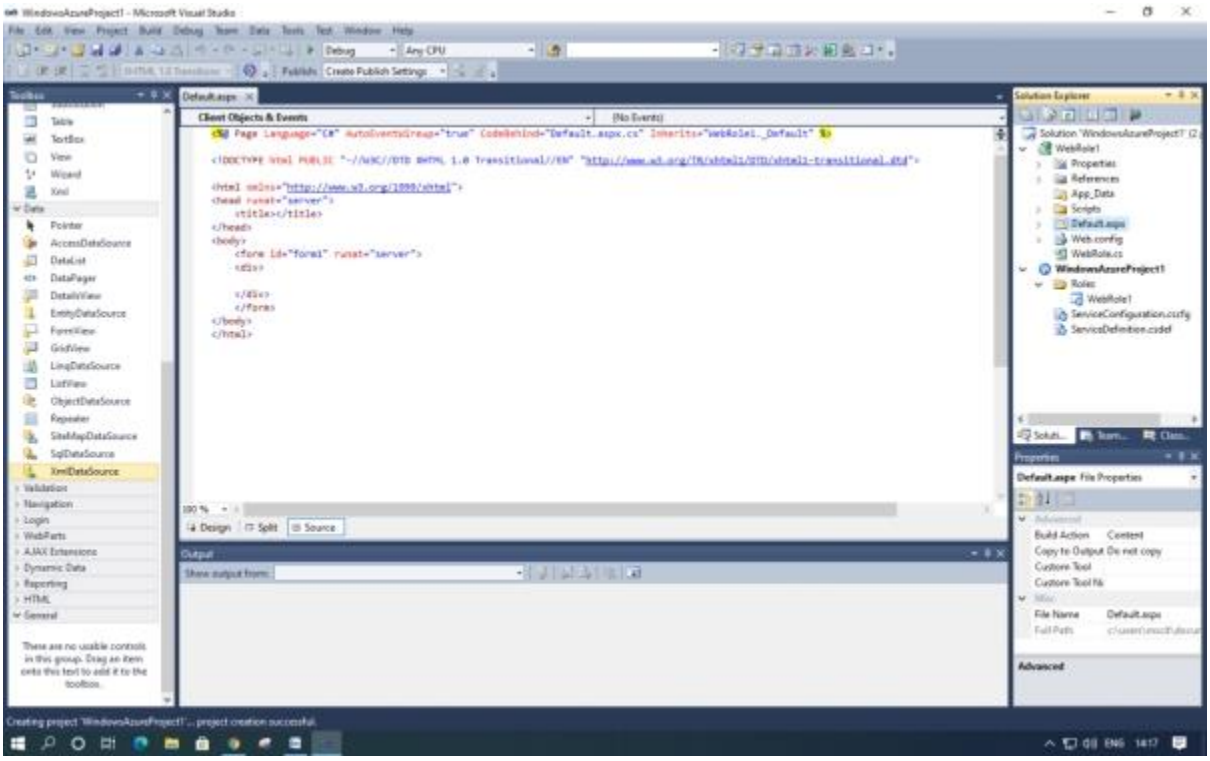


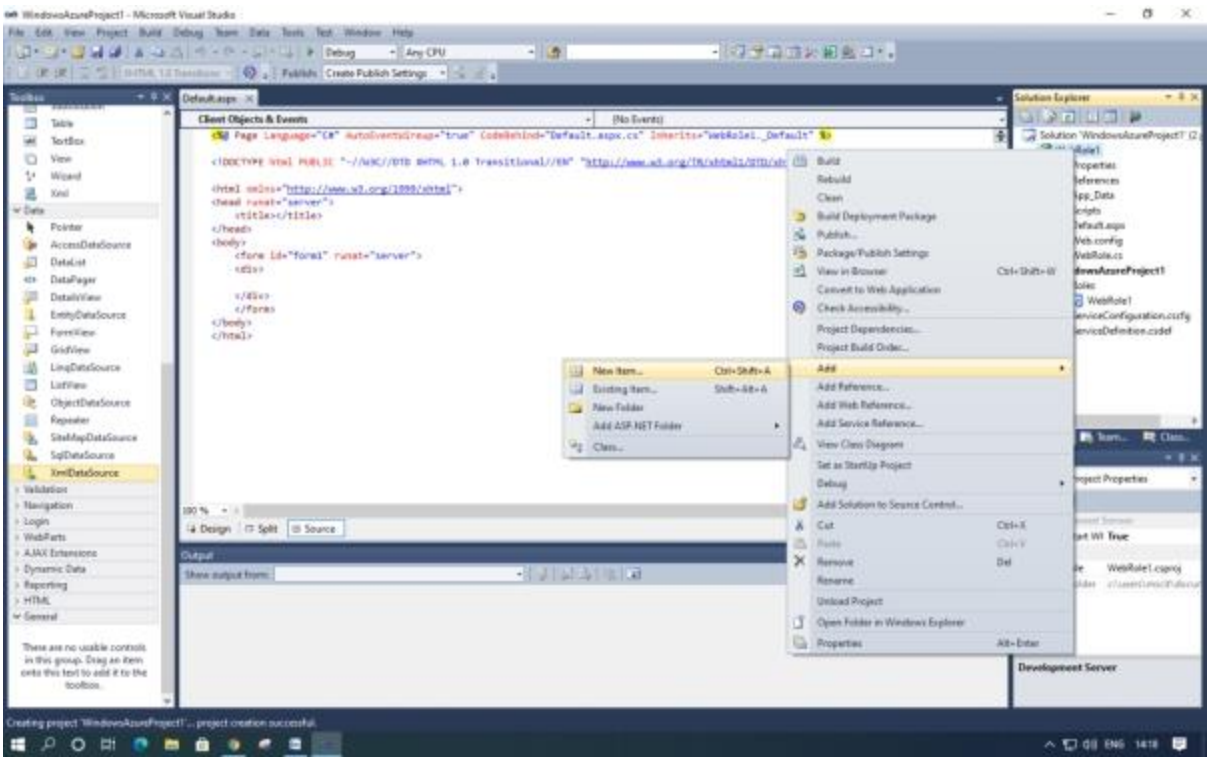
Open Visual Studio 2010


Start Page - Microsoft Visual Studio
File Edit View Debug Team Data Tools Test Window Help
New
Open
Close
Close Solution
Save Selected Items
Save Selected Items As...
Save All
Export Template...
Source Control
Page Setup...
Print...
Recent Files
Recent Projects and Solutions
Exit
Project...
Web Site...
Team Project...
File...
Project From Existing Code...
Get Started
Guidance and Resources
Latest News
Welcome
Windows
Web
Cloud
Office
SharePoint
Data
What's New in Visual Studio 2010
Learn about the new features included in this release.
Visual Studio 2010 Overview
What's New in .NET Framework 4
Customize the Visual Studio Start Page
Creating Applications with Visual Studio
Extending Visual Studio
Close page after project load
Show page on startup
Output
Show output from:
Solution Explorer
Ready

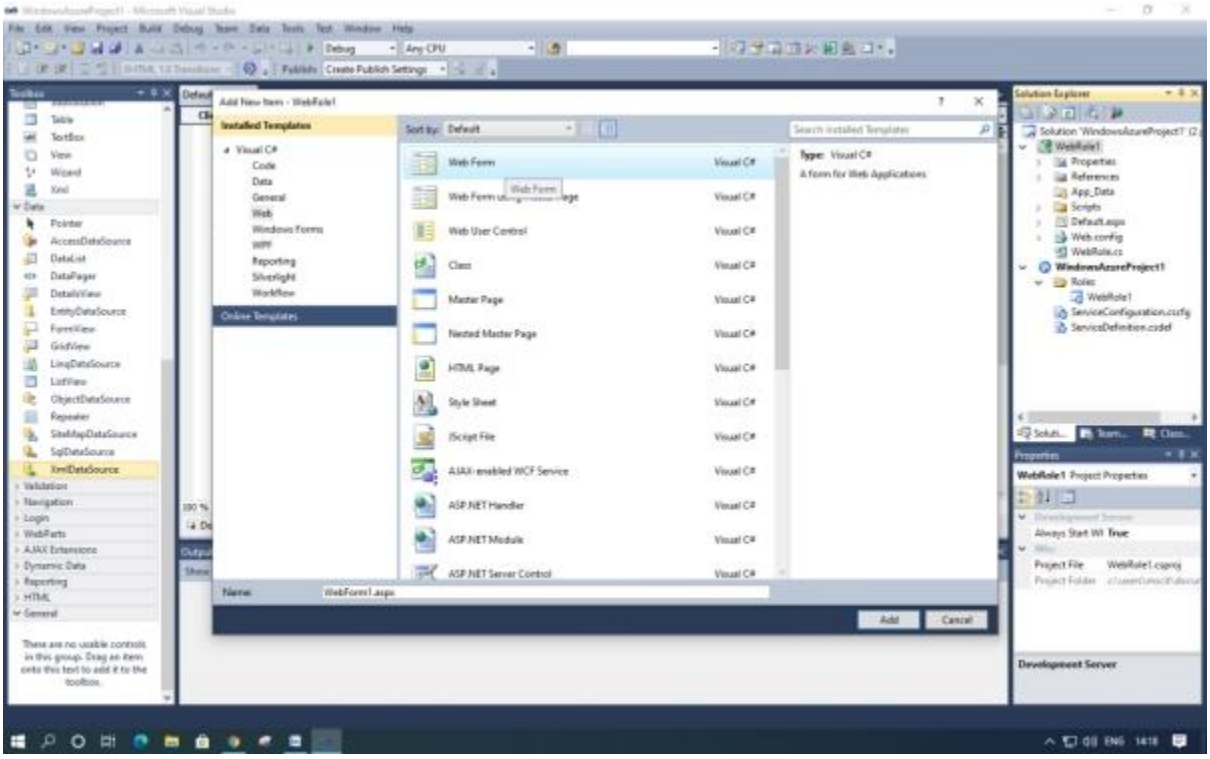

Toolbox
General
There are no usable controls in this group. Drag an item onto this text to add it to the toolbox.
Start Page
New Project
Recent Templates
Installed Templates
.NET Framework 3.5
Sort by: Default
Search Installed Templates
Visual Basic
Windows
Web
Office
Cloud
Reporting
SharePoint
Silverlight
Test
WCF
Workflow
Visual C#
Visual C++
Visual F#
Other Project Types
Database
Test Projects
Online Templates
Windows Azure Project
Visual Basic
Type: Visual Basic
A project for creating a scalable service that runs on Windows Azure.
Name:
Location:
C:\Users\mscli\Documents\Visual Studio 2010\Projects
Browse...
Solution name:
Create directory for solution
Add to source control
OK
Cancel
Solution Explorer

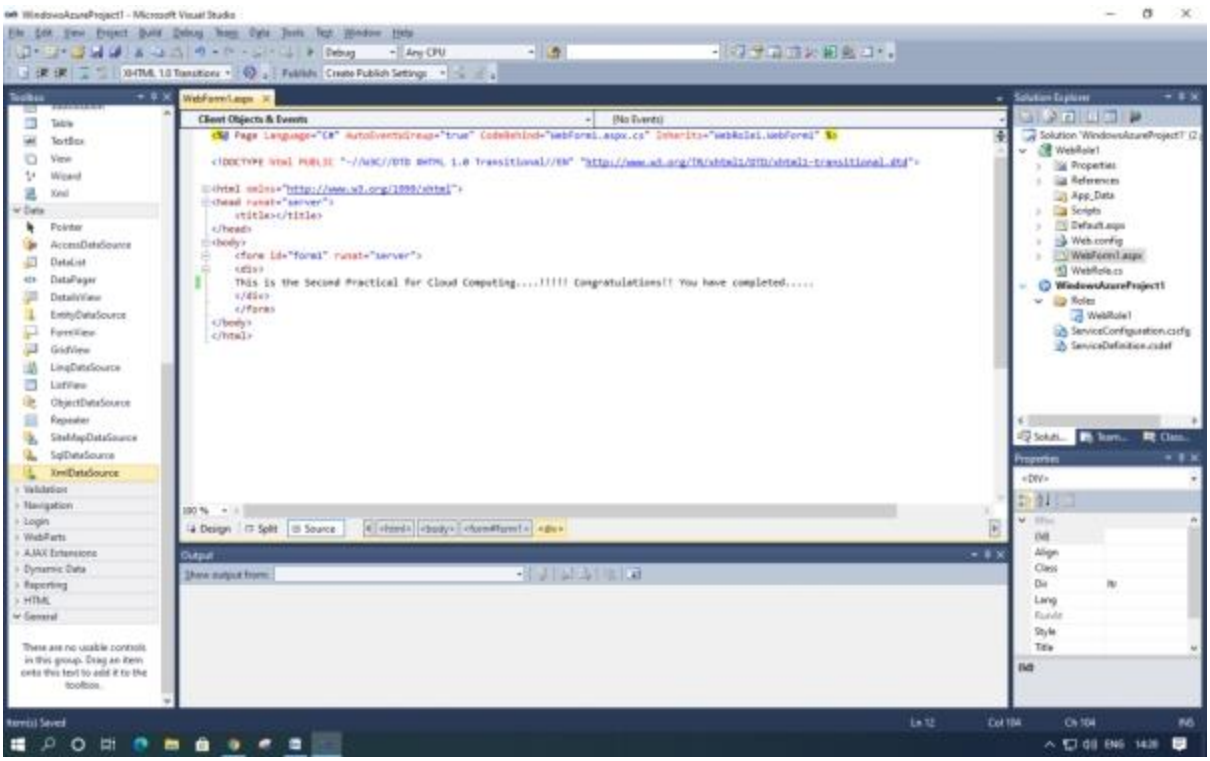

New Windows Azure Project
.NET Framework 3.5 roles:
Visual Basic
Visual C#
ASP.NET Web Role
Service with a web user interface
ASP.NET MVC 2 Web Role
Service with a web user interface using...
WCF Service Web Role
Web role for WCF services
Worker Role
Background processing service
CGI Web Role
Web role that hosts a FastCGI application
Visual F#
Windows Azure solution:
WebRole1
ASP.NET Web Role
OK
Cancel



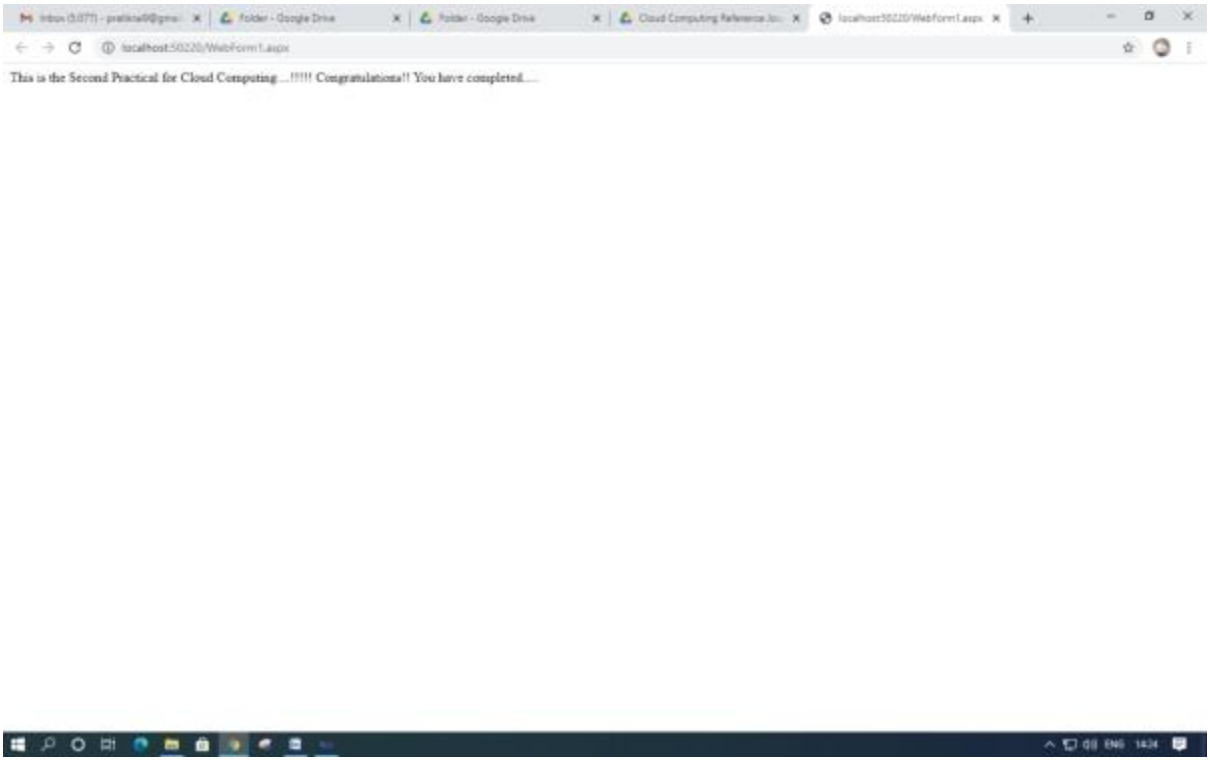


Create a webform



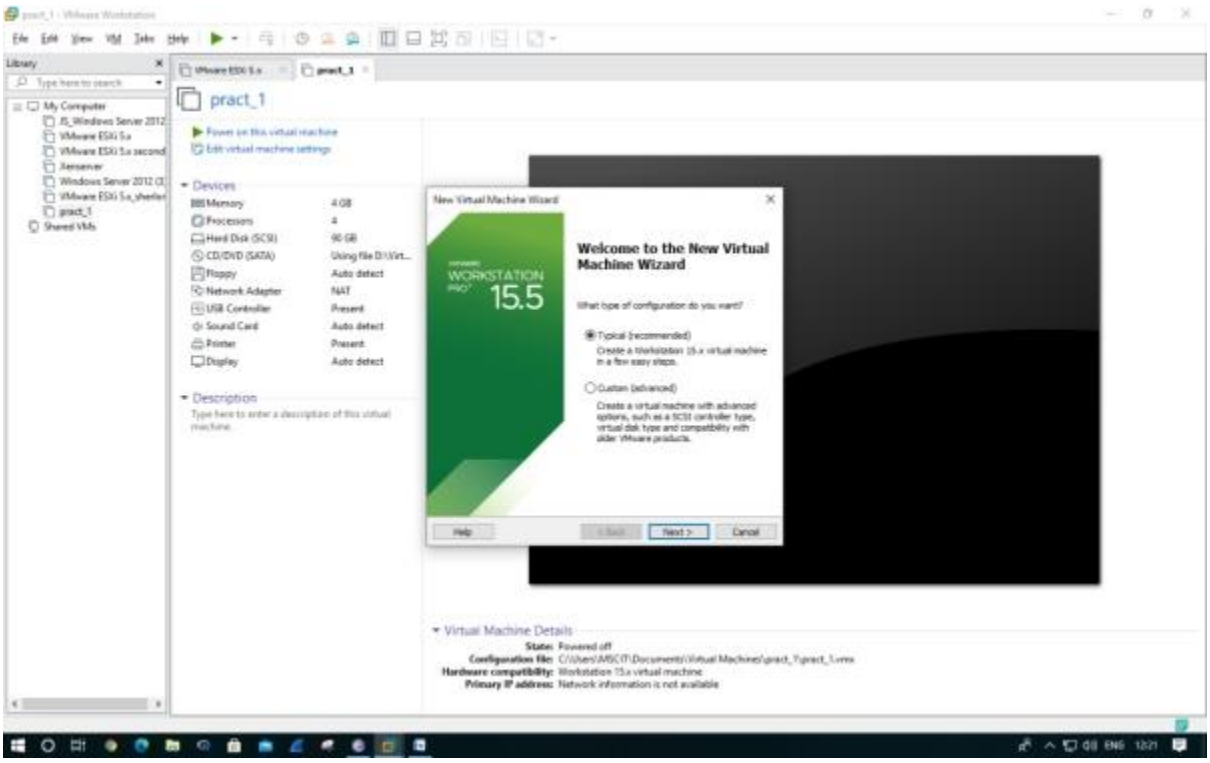


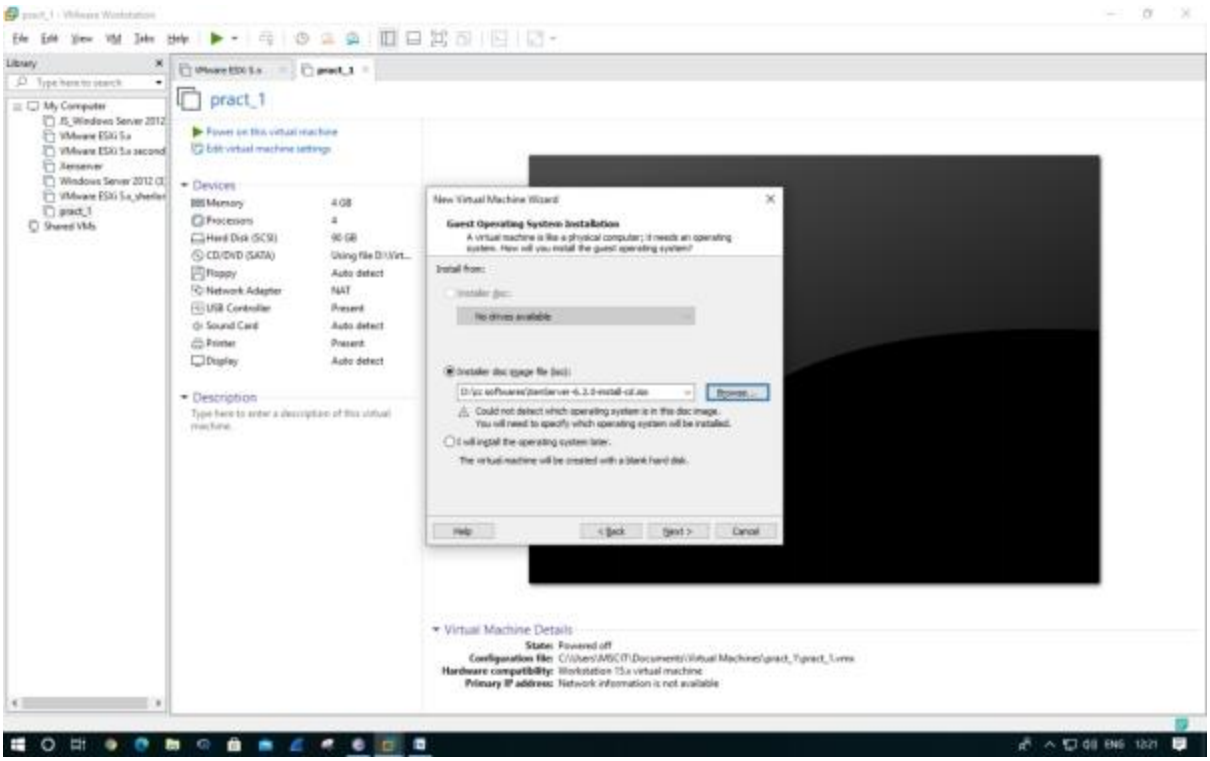
Run the project in administrator also debug 'run it without debug' option.

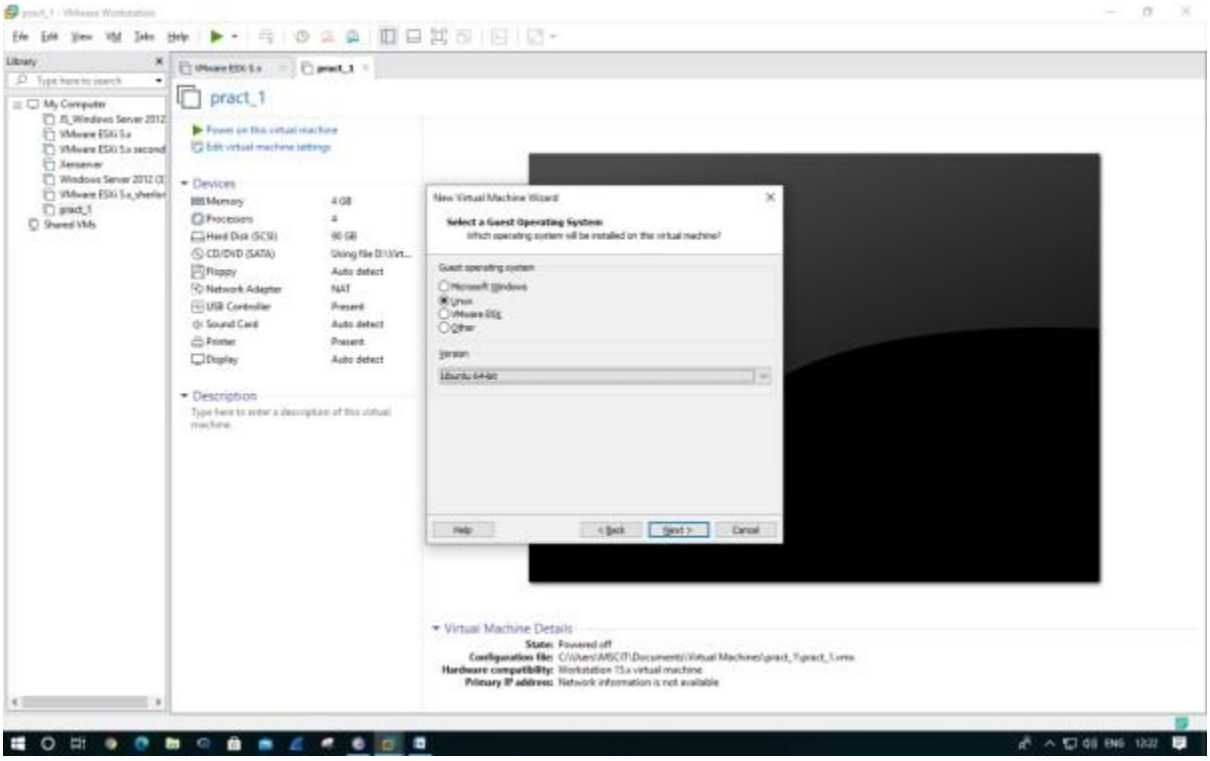


Practical No. 3

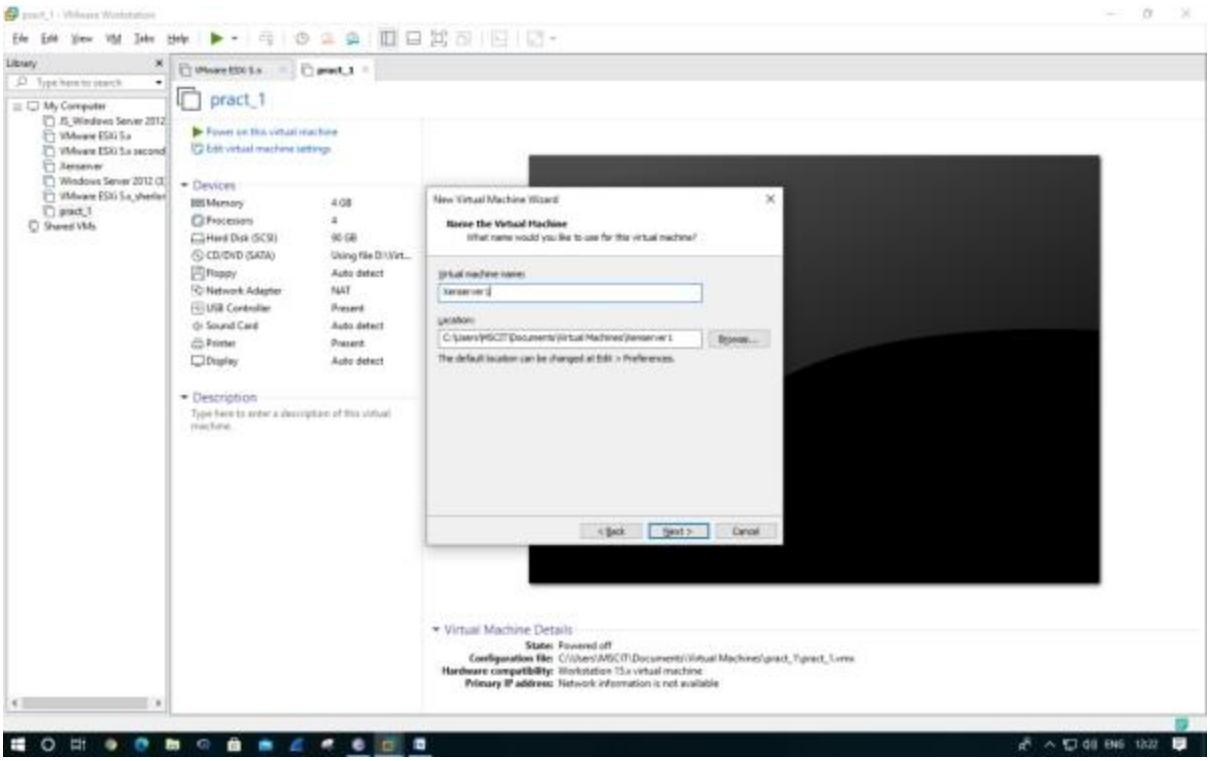
Implementing Private Cloud with Xenserver

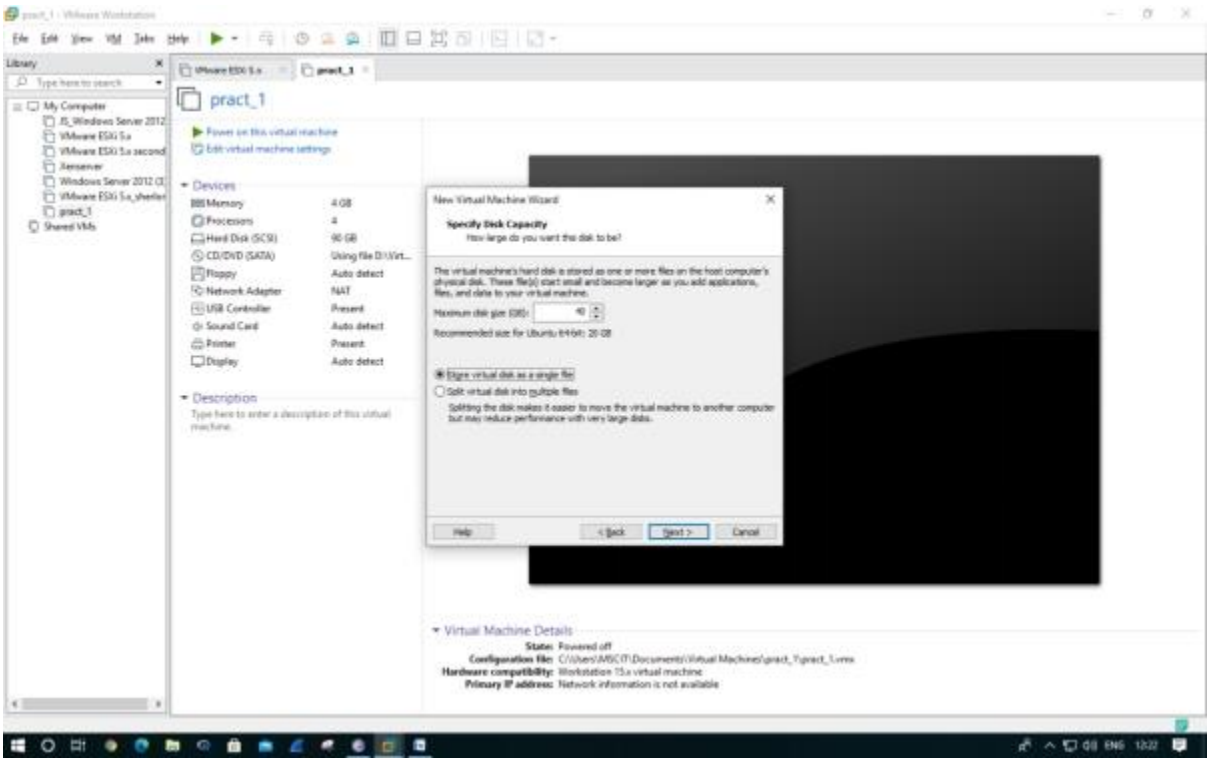


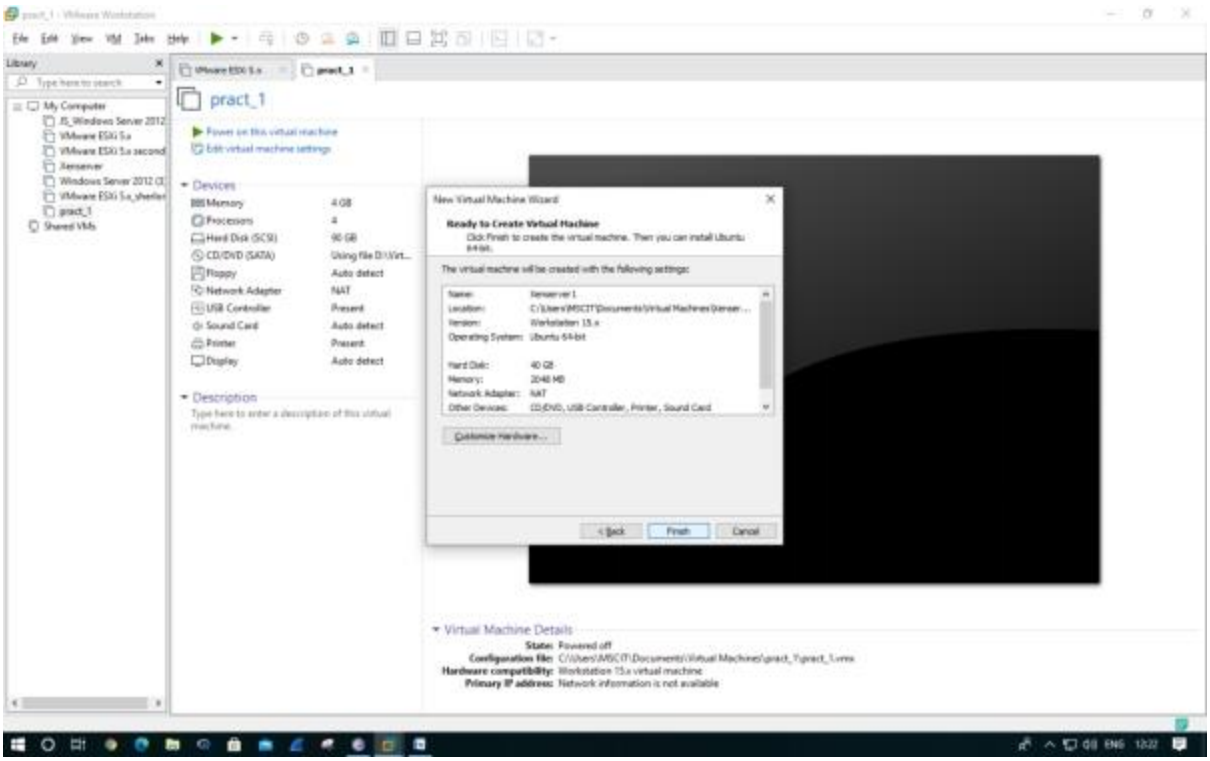


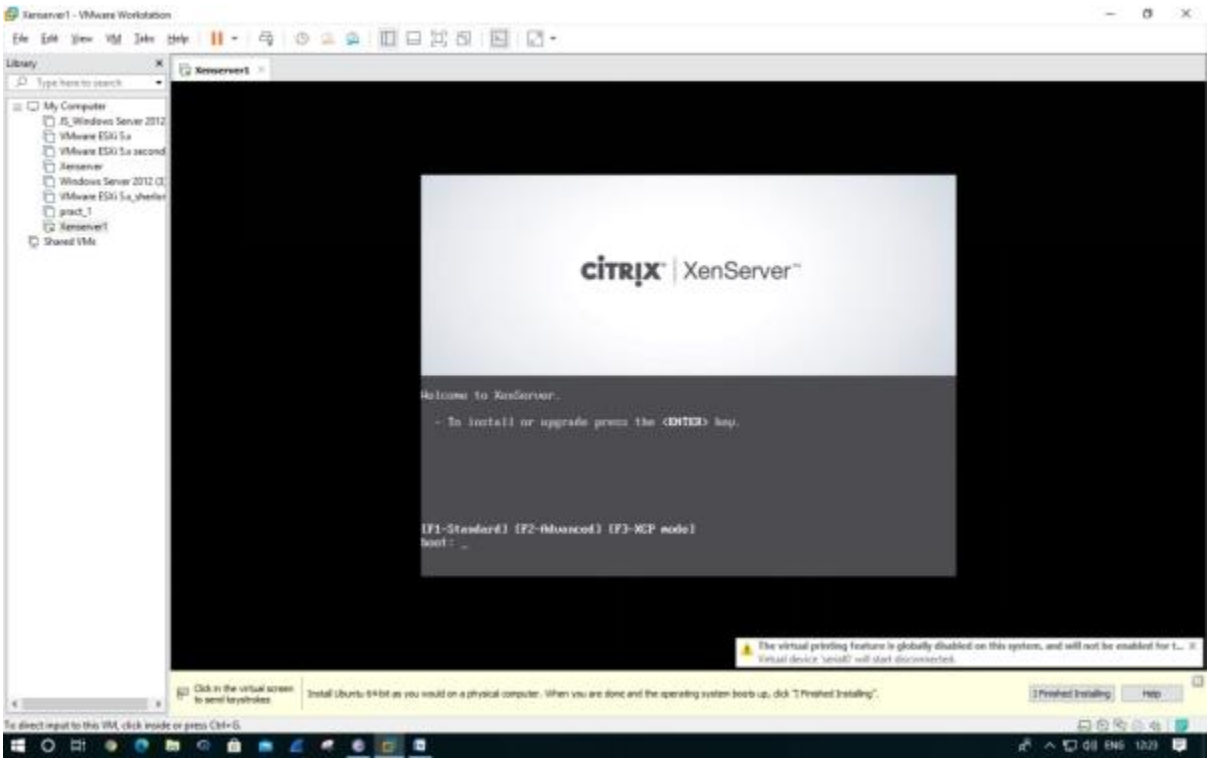


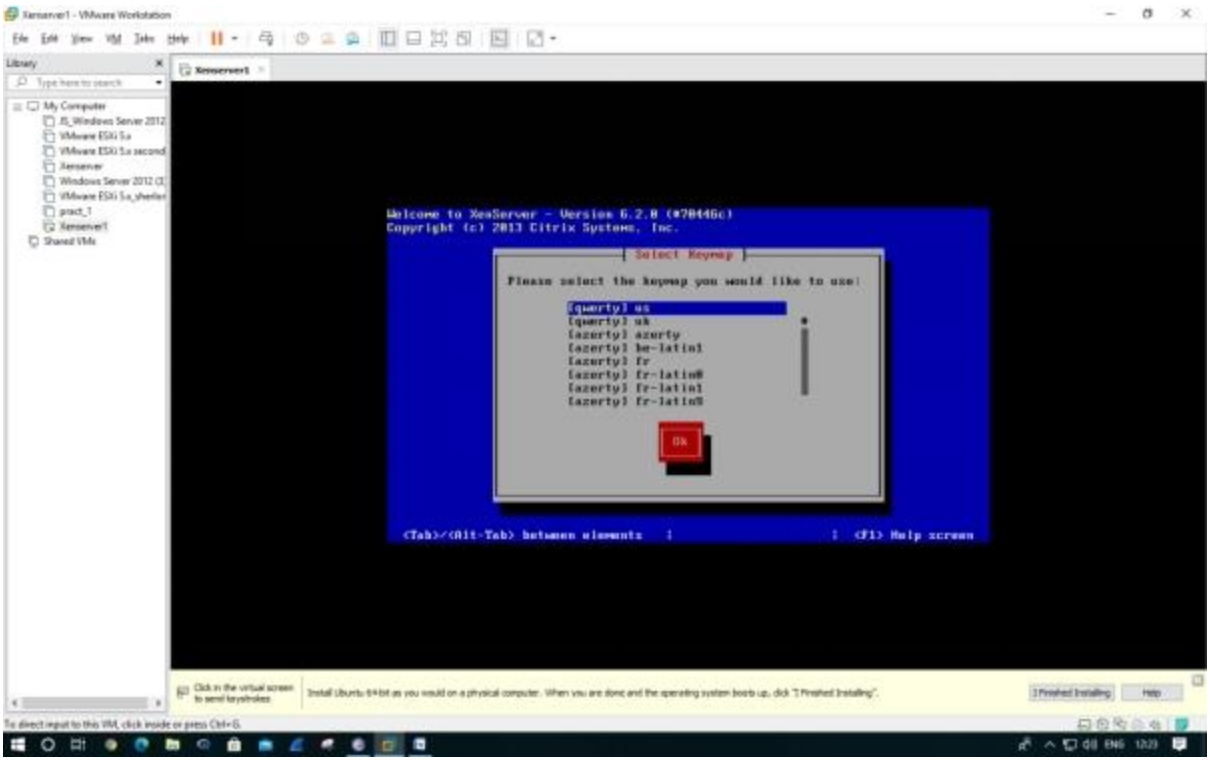
Select Linux Ubuntu version 64 bit

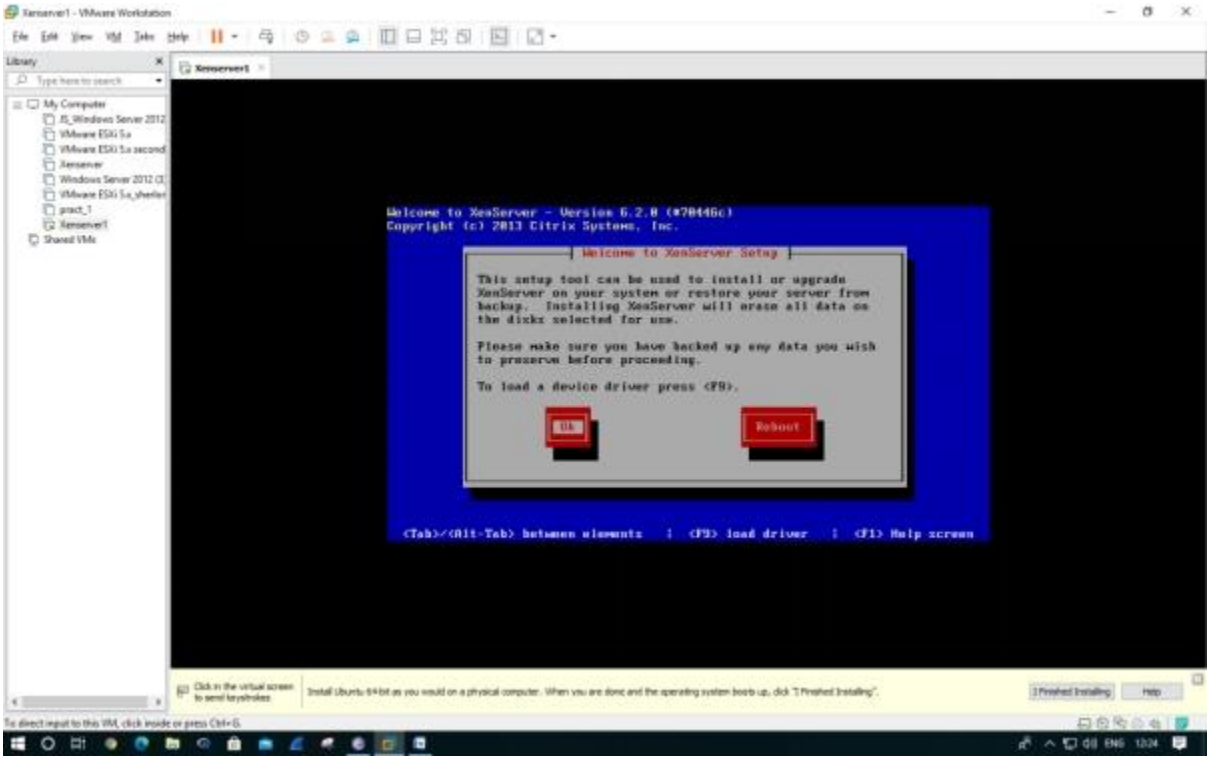

pract_1
Power on this virtual machine
Edit virtual machine settings
Devices
Memory 4 GB
Processors 4
Hard Disk (SCSI) 90 GB
CD/DVD (SATA) Using file D:\Virt...
Floppy Auto detect
Network Adapter NAT
USB Controller Present
Sound Card Auto detect
Printer Present
Display Auto detect
Description
Type here to enter a description of this virtual machine.
New Virtual Machine Wizard
Name the Virtual Machine
What name would you like to use for this virtual machine?
Virtual machine name:
Location:
The default location can be changed at Edit > Preferences.
< Back
Next >
Cancel
Virtual Machine Details
State: Powered off
Hardware compatibility: Workstation 15.x virtual machine
Primary IP address: Network information is not available

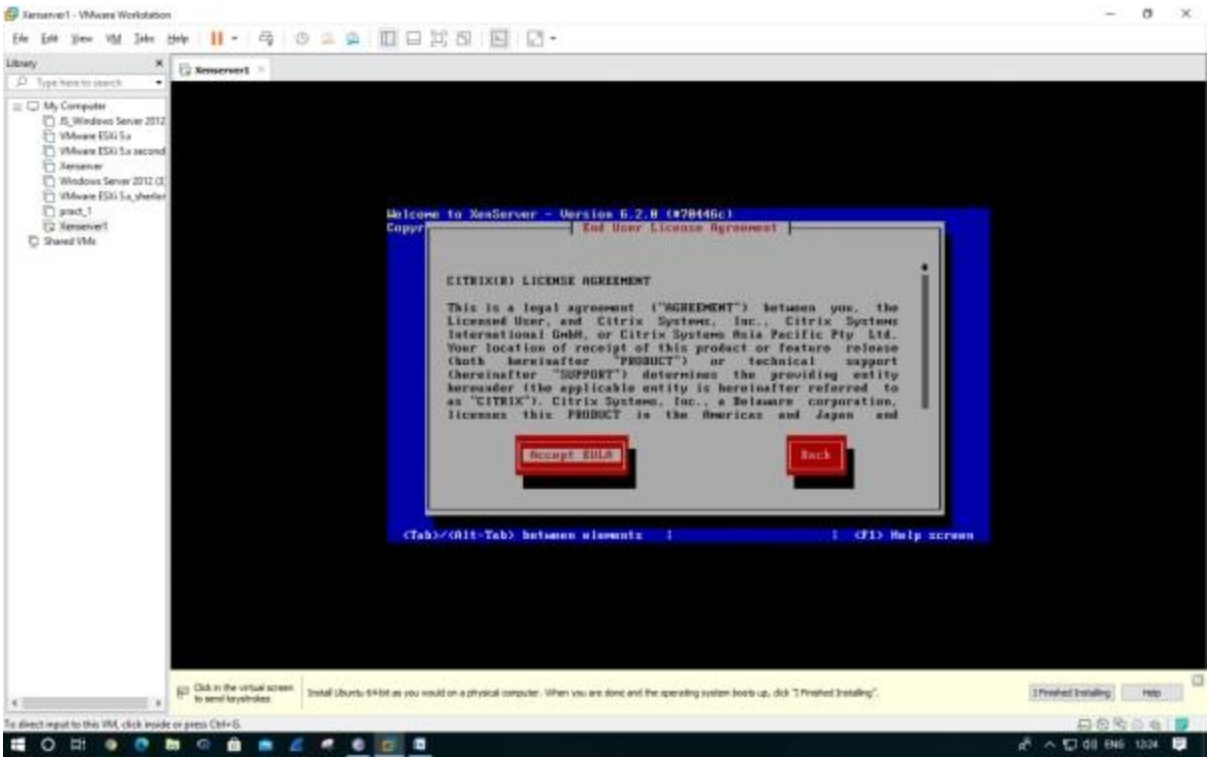

pract_1
Power on this virtual machine
Edit virtual machine settings
Devices
Memory 4 GB
Processors 4
Hard Disk (SCSI) 90 GB
CD/DVD (SATA) Using file D:\Virt...
Floppy Auto detect
Network Adapter NAT
USB Controller Present
Sound Card Auto detect
Printer Present
Display Auto detect
Description
Type here to enter a description of this virtual machine.
New Virtual Machine Wizard
Specify Disk Capacity
How large do you want this disk to be?
Maximum disk size (GB):
Recommended size for Ubuntu 64-bit: 20 GB
Store virtual disk as a single file
Split virtual disk into multiple files
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.
Help
< Back
Next >
Cancel
Virtual Machine Details
State: Powered off
Hardware compatibility: Workstation 15.x virtual machine
Primary IP address: Network information is not available

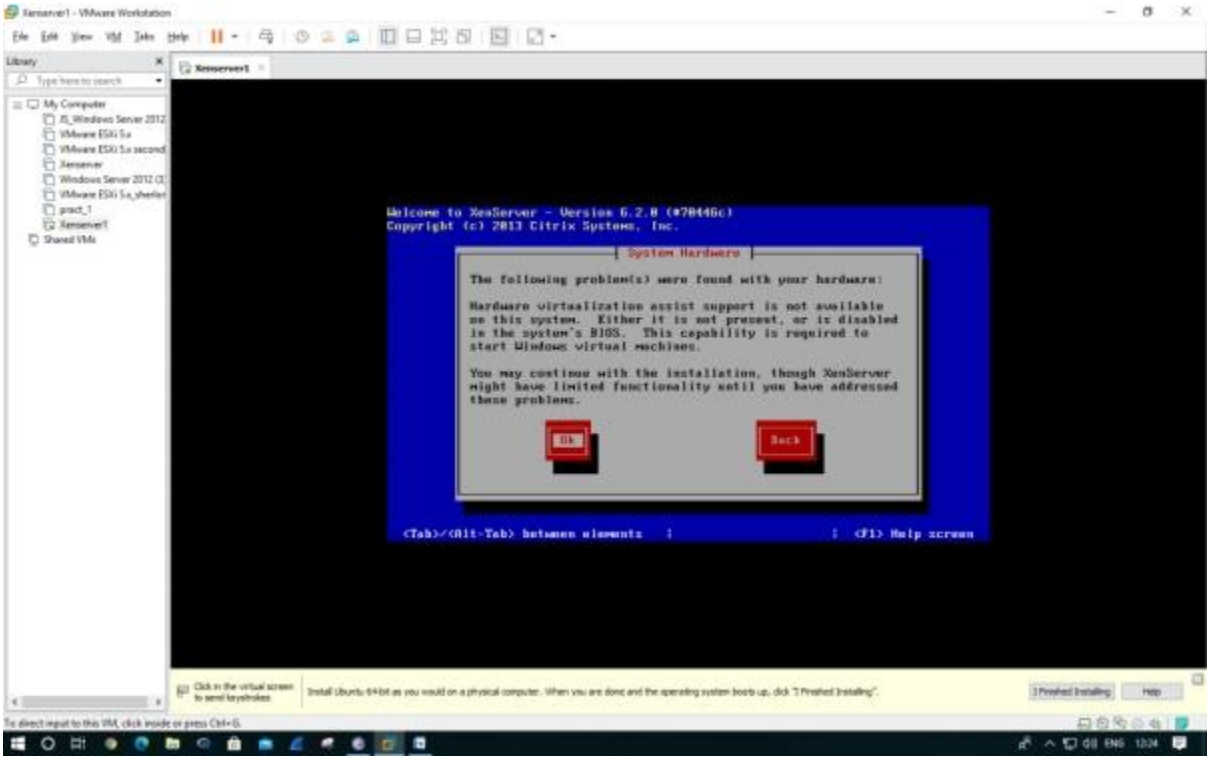

pract_1
Power on this virtual machine
Edit virtual machine settings
Devices
Description
New Virtual Machine Wizard
Ready to Create Virtual Machine
Click Finish to create the virtual machine. Then you can install Ubuntu 64-bit.
The virtual machine will be created with the following settings:
Customize Hardware...
< Back
Finish
Cancel
Virtual Machine Details

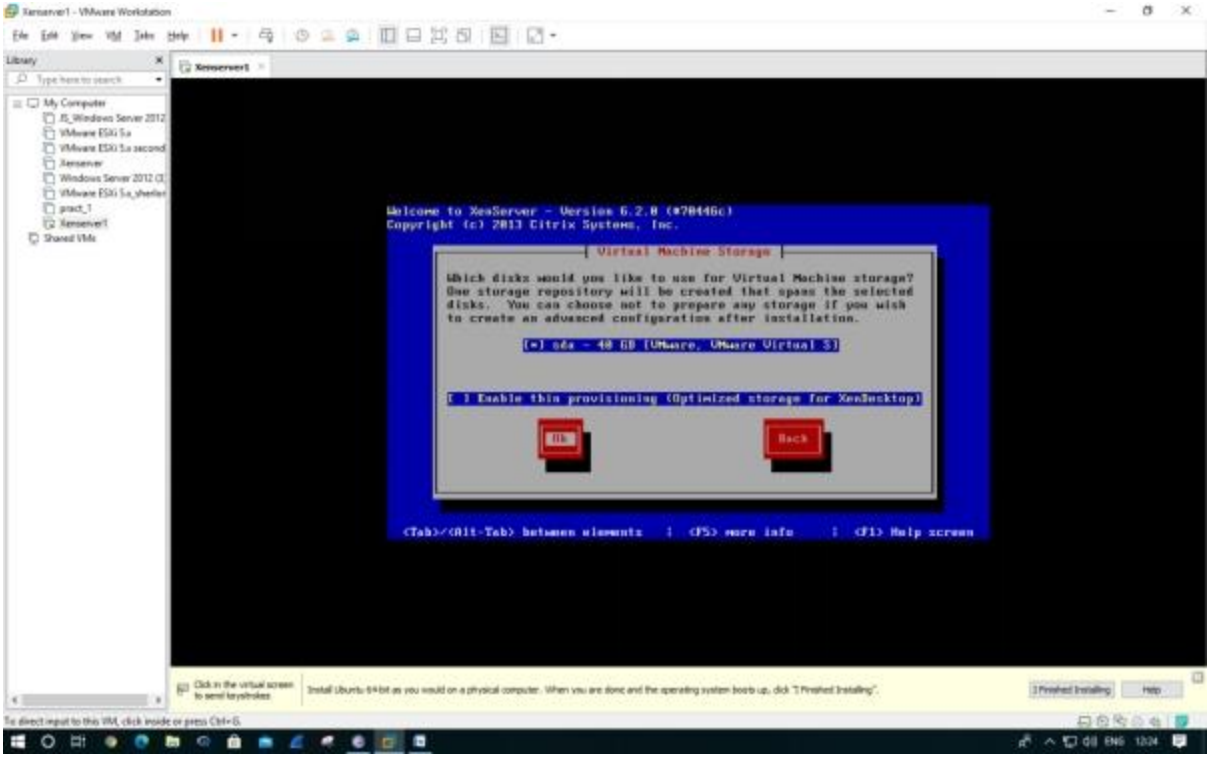

Xenserver1 - VMware Workstation
CITRIX | XenServer
Welcome to XenServer.
- To install or upgrade press the <ENTER> key.
[F1-Standard] [F2-Advanced] [F3-XCP mode]
boot:

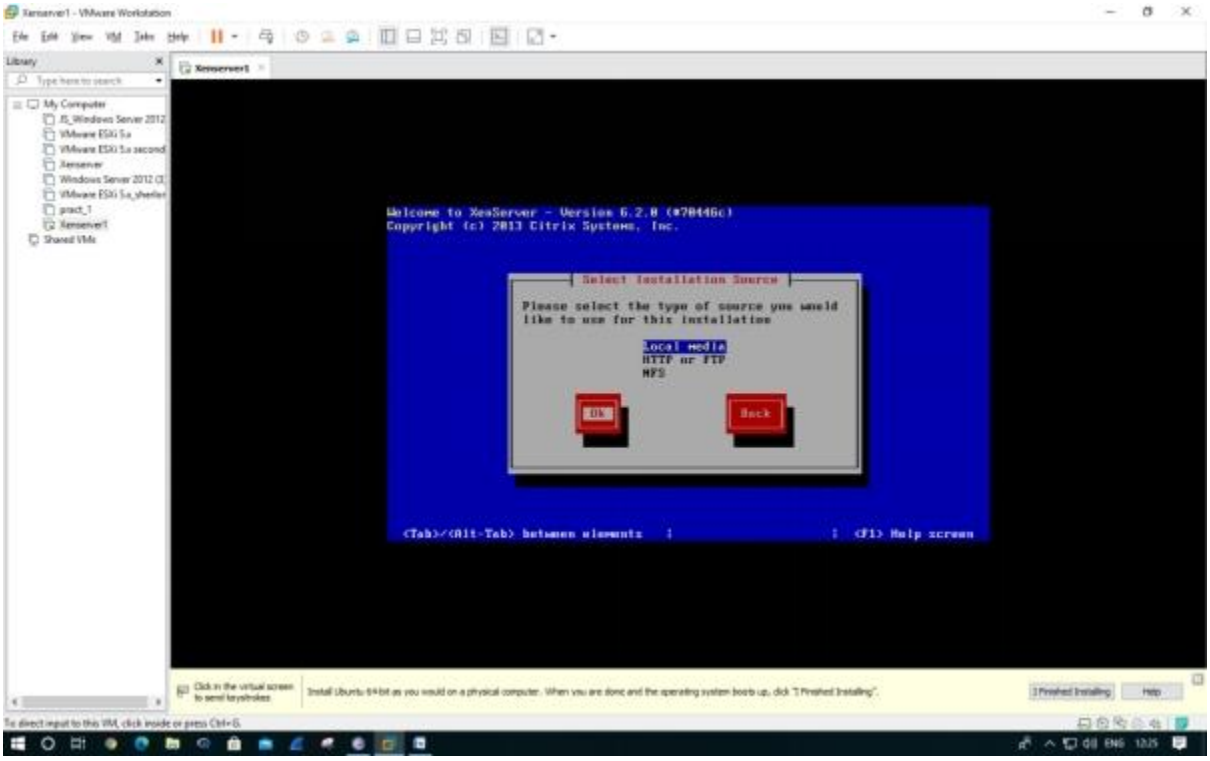

Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
Select Keymap
Please select the keymap you would like to use:
[qwerty] us
[qwerty] uk
[azerty] azerty
[azerty] be-latin1
[azerty] fr
[azerty] fr-latin0
[azerty] fr-latin1
[azerty] fr-latin9
Ok
<Tab>/<Alt-Tab> between elements
<F1> Help screen

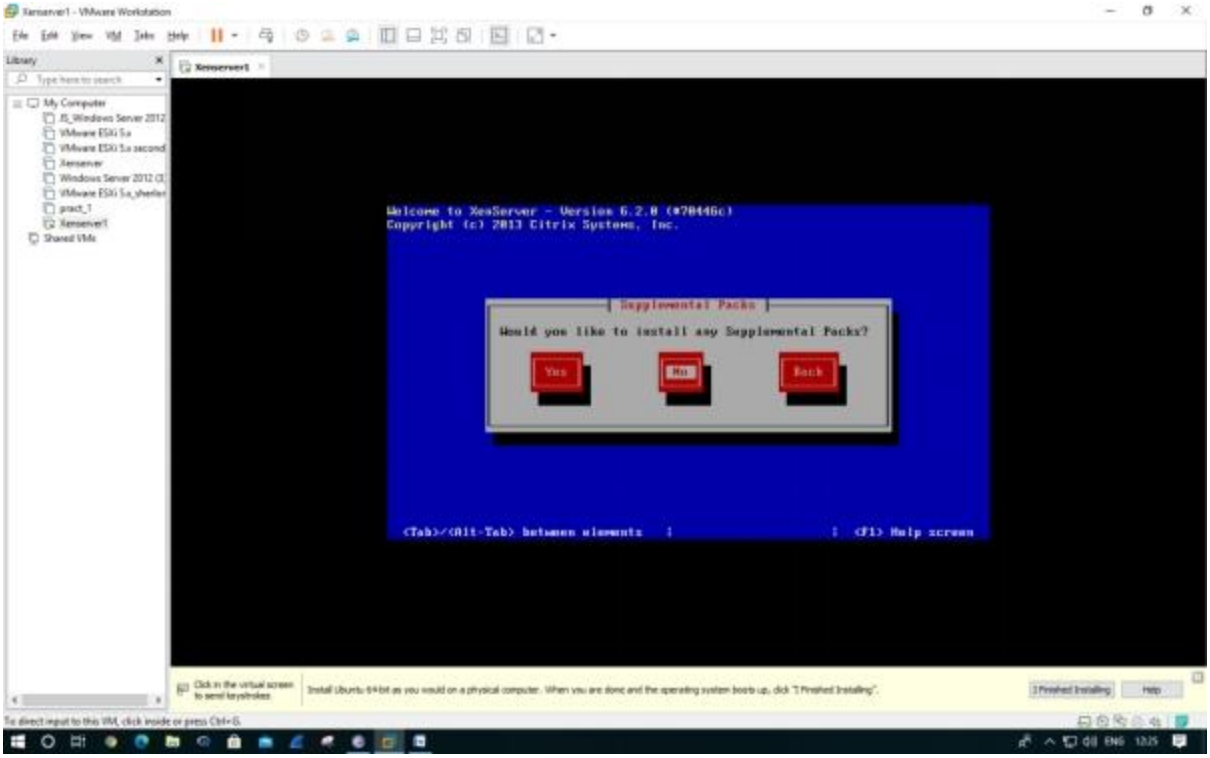

Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
Welcome to XenServer Setup
This setup tool can be used to install or upgrade XenServer on your system or restore your server from backup. Installing XenServer will erase all data on the disks selected for use.
Please make sure you have backed up any data you wish to preserve before proceeding.
To load a device driver press <F9>.
Ok
Reboot
<Tab>/<Alt-Tab> between elements
<F9> load driver
<F1> Help screen

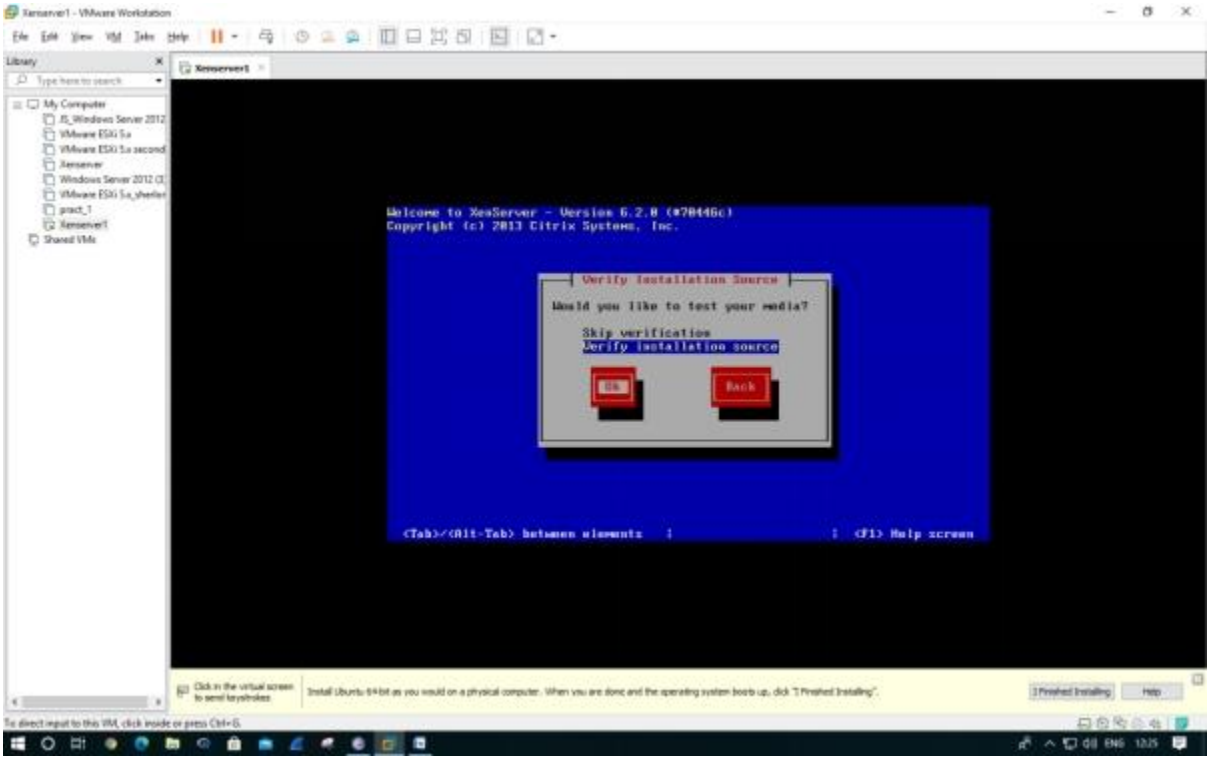

Welcome to XenServer - Version 6.2.0 (#70446c)
End User License Agreement
CITRIX(R) LICENSE AGREEMENT
This is a legal agreement ("AGREEMENT") between you, the Licensed User, and Citrix Systems, Inc., Citrix Systems International GmbH, or Citrix Systems Asia Pacific Pty Ltd. Your location of receipt of this product or feature release (both hereinafter "PRODUCT") or technical support (hereinafter "SUPPORT") determines the providing entity hereunder (the applicable entity is hereinafter referred to as "CITRIX"). Citrix Systems, Inc., a Delaware corporation, licenses this PRODUCT in the Americas and Japan and
Accept EULA
Back
<Tab>/<Alt-Tab> between elements
<F1> Help screen

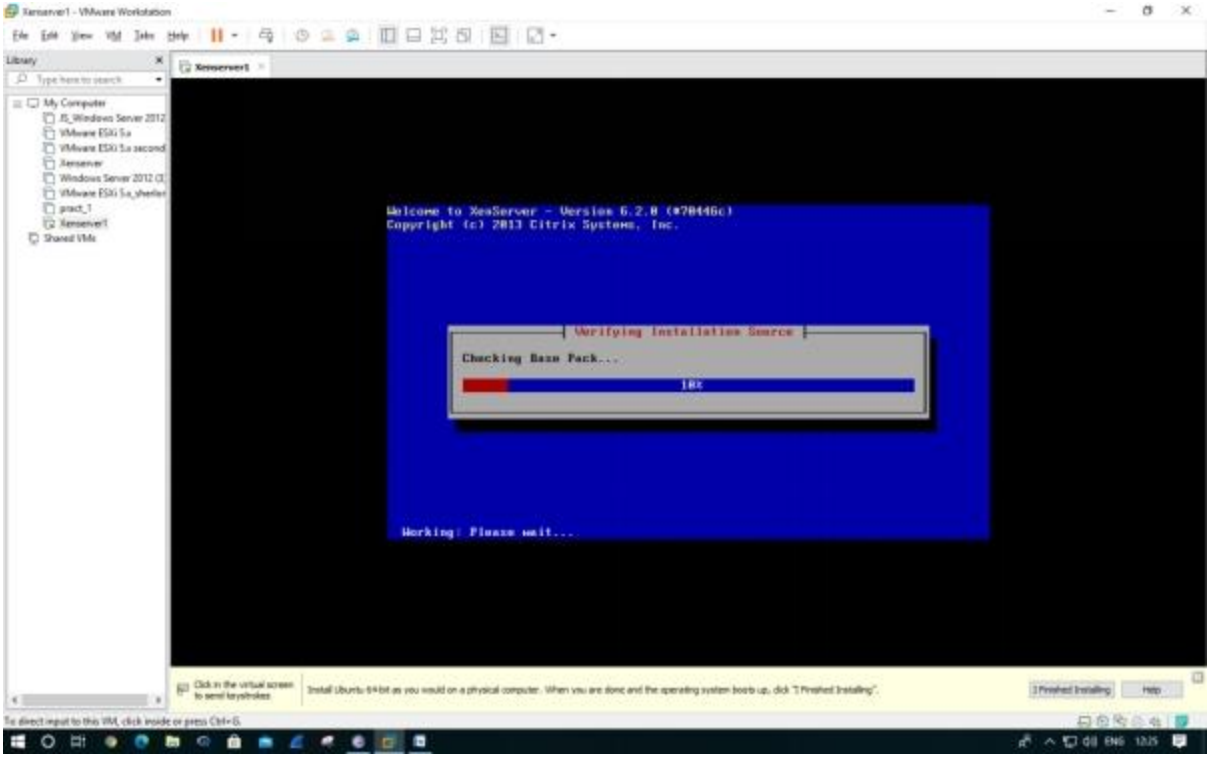

Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
System Hardware
The following problem(s) were found with your hardware:
Hardware virtualization assist support is not available on this system. Either it is not present, or is disabled in the system's BIOS. This capability is required to start Windows virtual machines.
You may continue with the installation, though XenServer might have limited functionality until you have addressed these problems.
Ok
Back
<Tab>/<Alt-Tab> between elements
<F1> Help screen

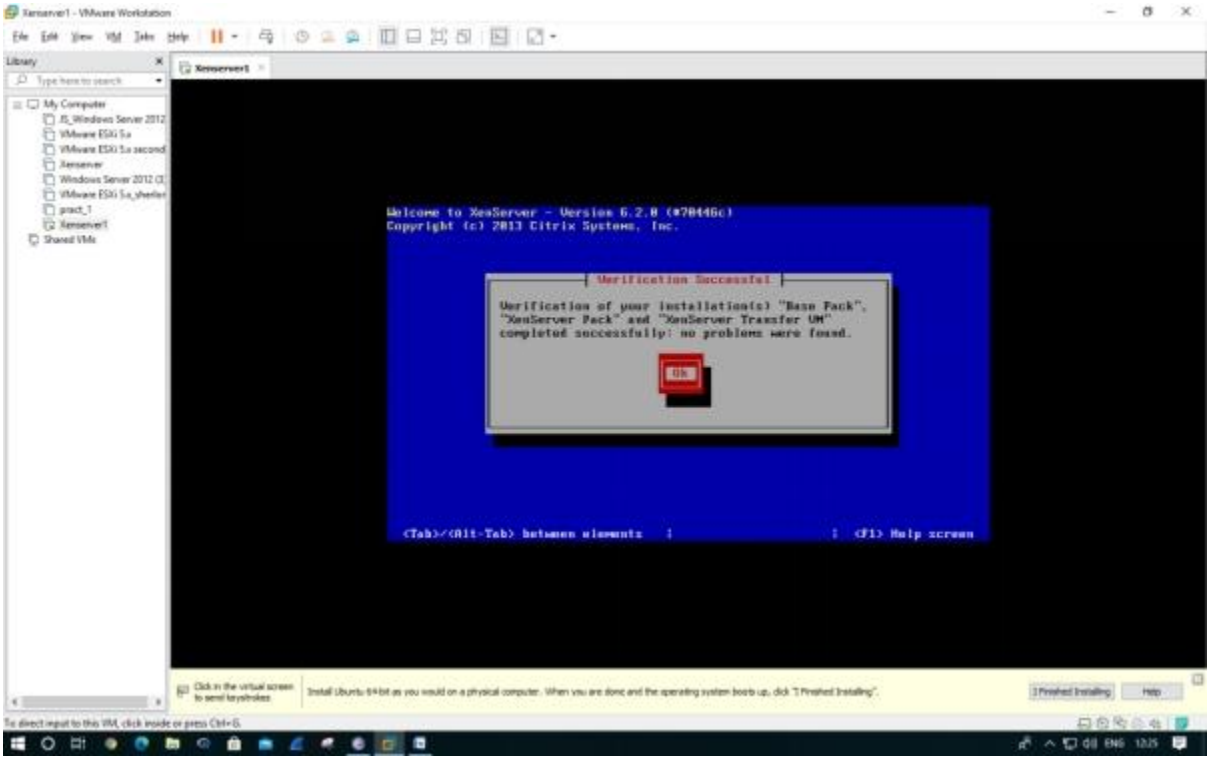

Xenserver1 - VMware Workstation
Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
Virtual Machine Storage
Which disks would you like to use for Virtual Machine storage?
One storage repository will be created that spans the selected
disks. You can choose not to prepare 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

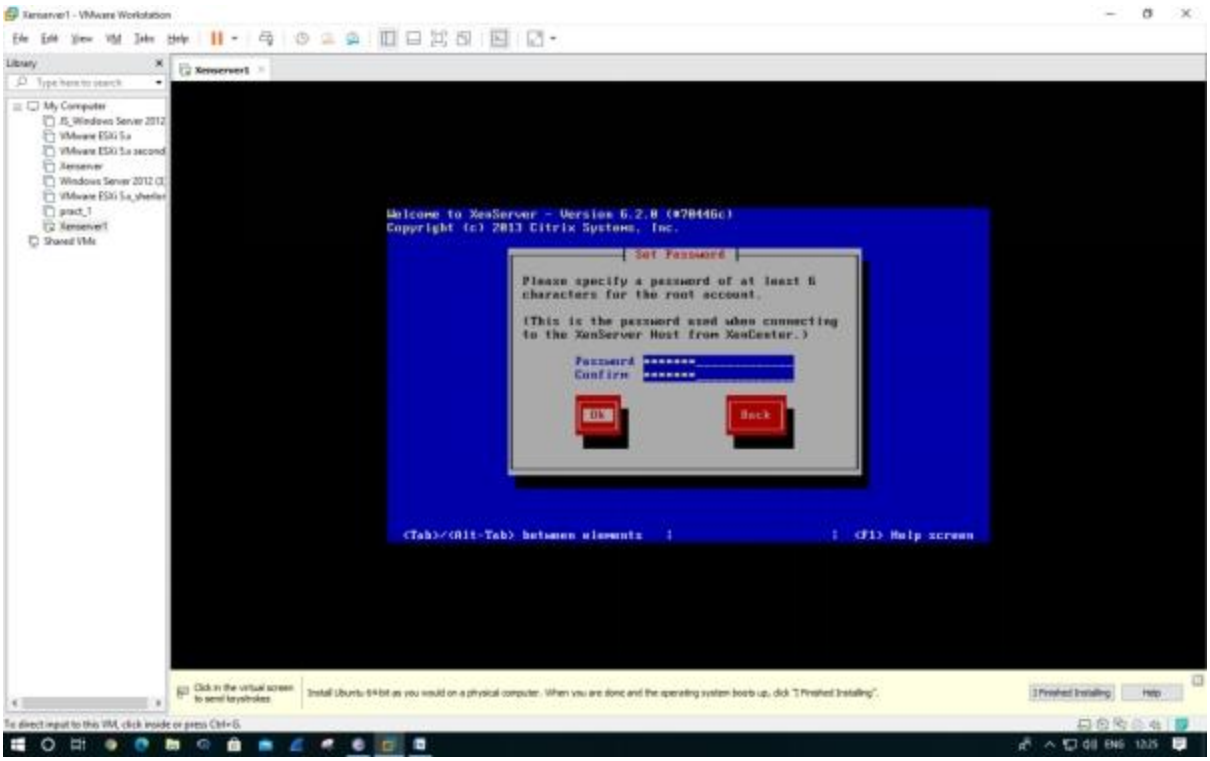

Xenserver1 - VMware Workstation
Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
Select Installation Source
Please select the type of source you would
like to use for this installation
Local media
HTTP or FTP
NFS
OK
Back
<Tab>/<Alt-Tab> between elements | <F1> Help screen


Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
Supplemental Packs
Would you like to install any Supplemental Packs?
Yes
No
Back
<Tab>/<Alt-Tab> between elements
<F1> Help screen

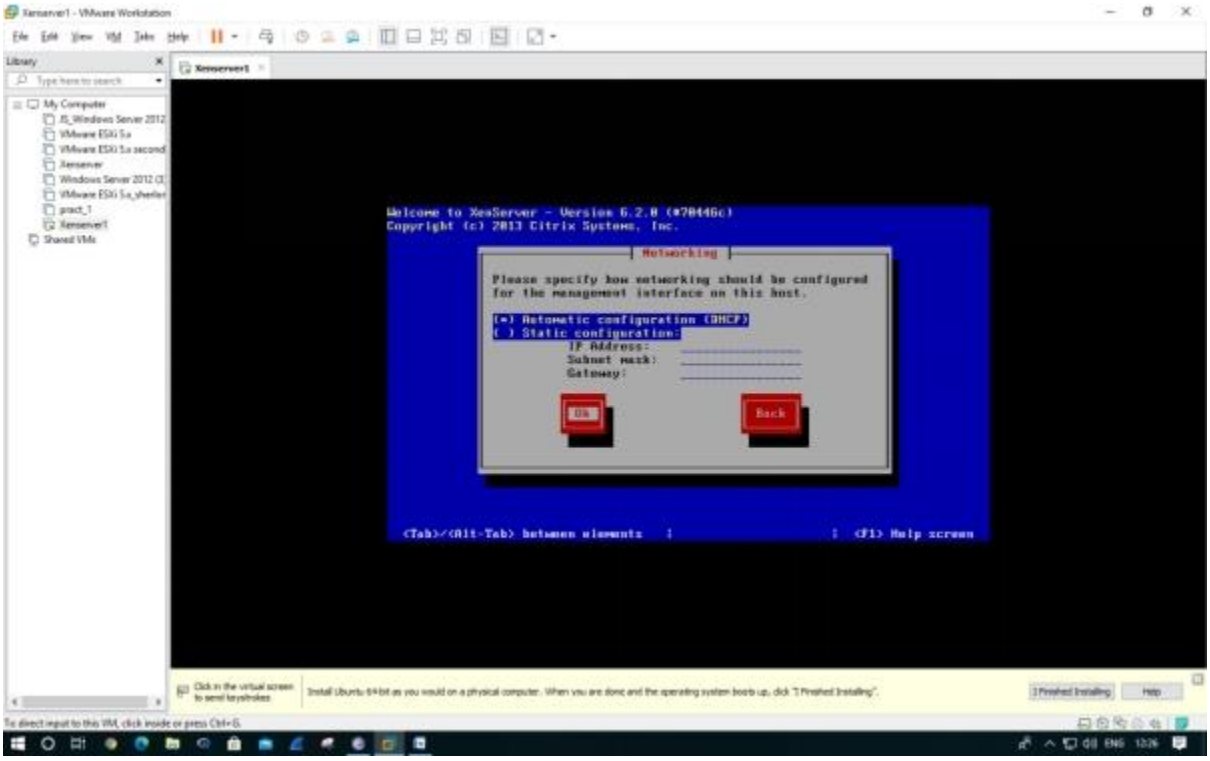

Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
Verify Installation Source
Would you like to test your media?
Skip verification
Verify installation source
OK
Back
<Tab>/<Alt-Tab> between elements
<F1> Help screen

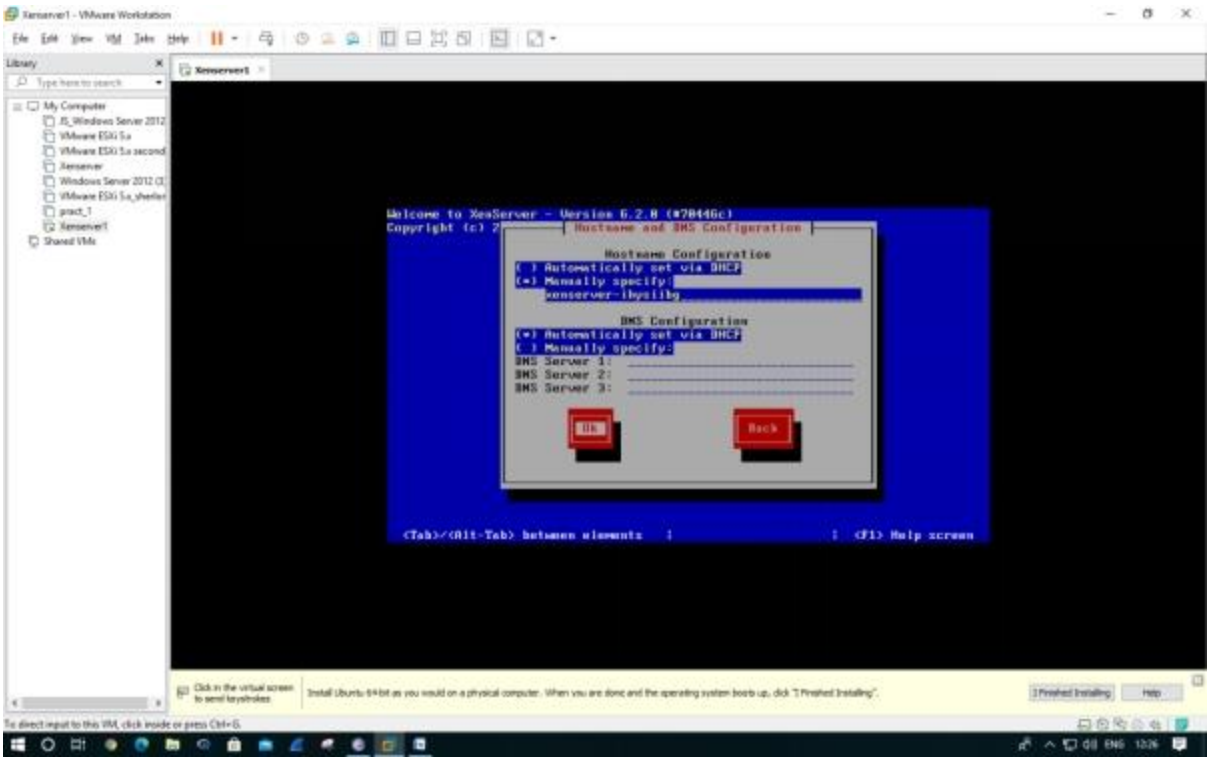

Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
Verifying Installation Source
Checking Base Pack...
18%
Working: Please wait...

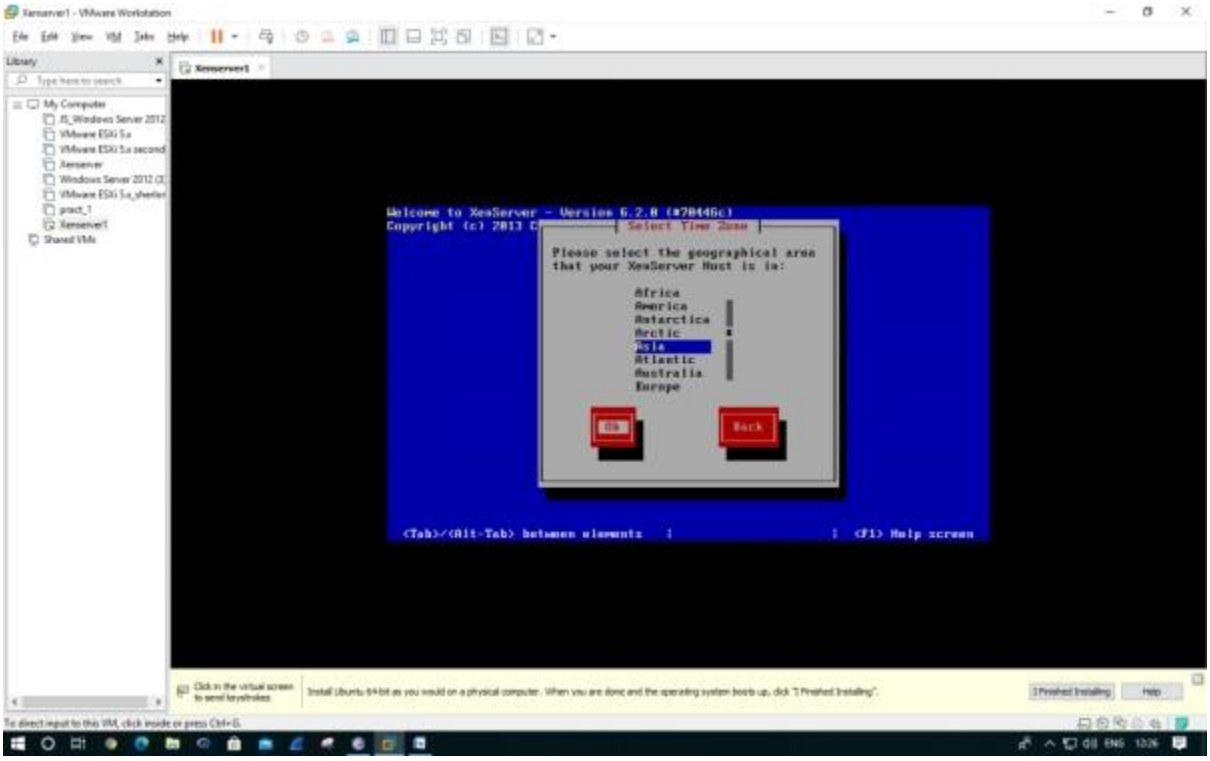

Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
Verification Successful
Verification of your installation(s) "Base Pack", "XenServer Pack" and "XenServer Transfer VM" completed successfully: no problems were found.
OK
<Tab>/<Alt-Tab> between elements
<F1> Help screen

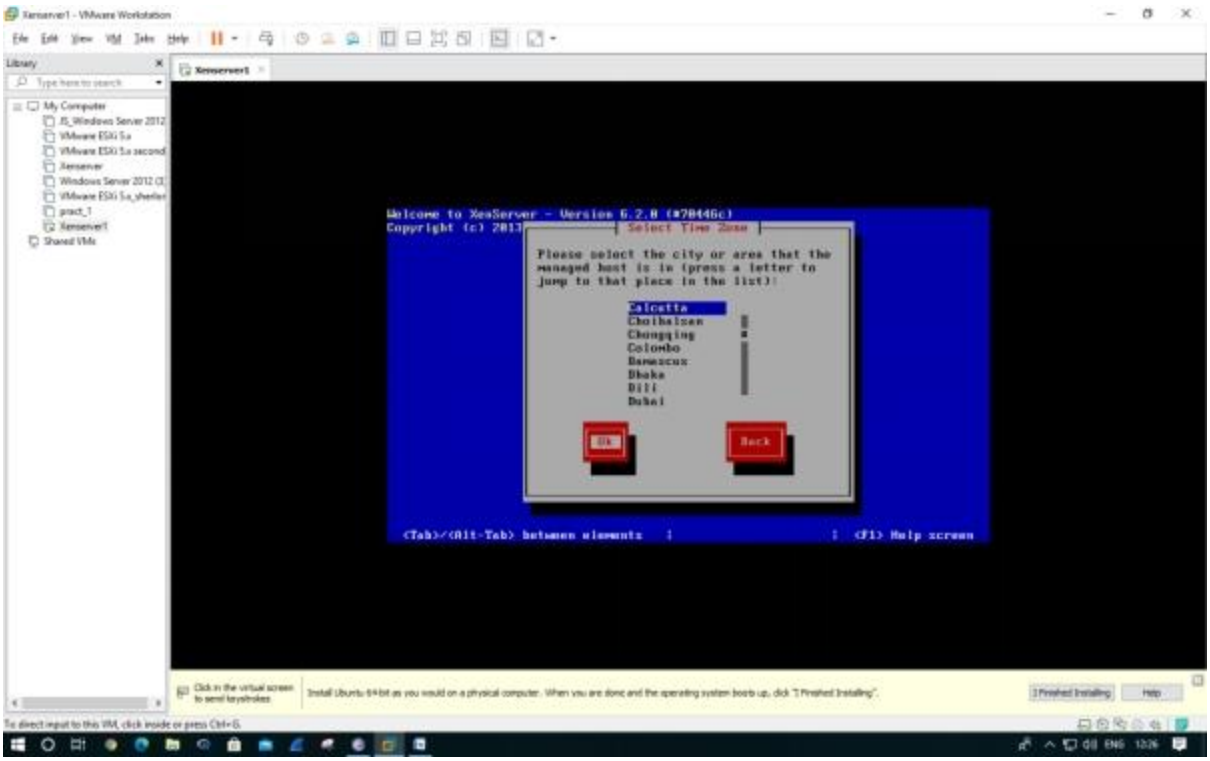


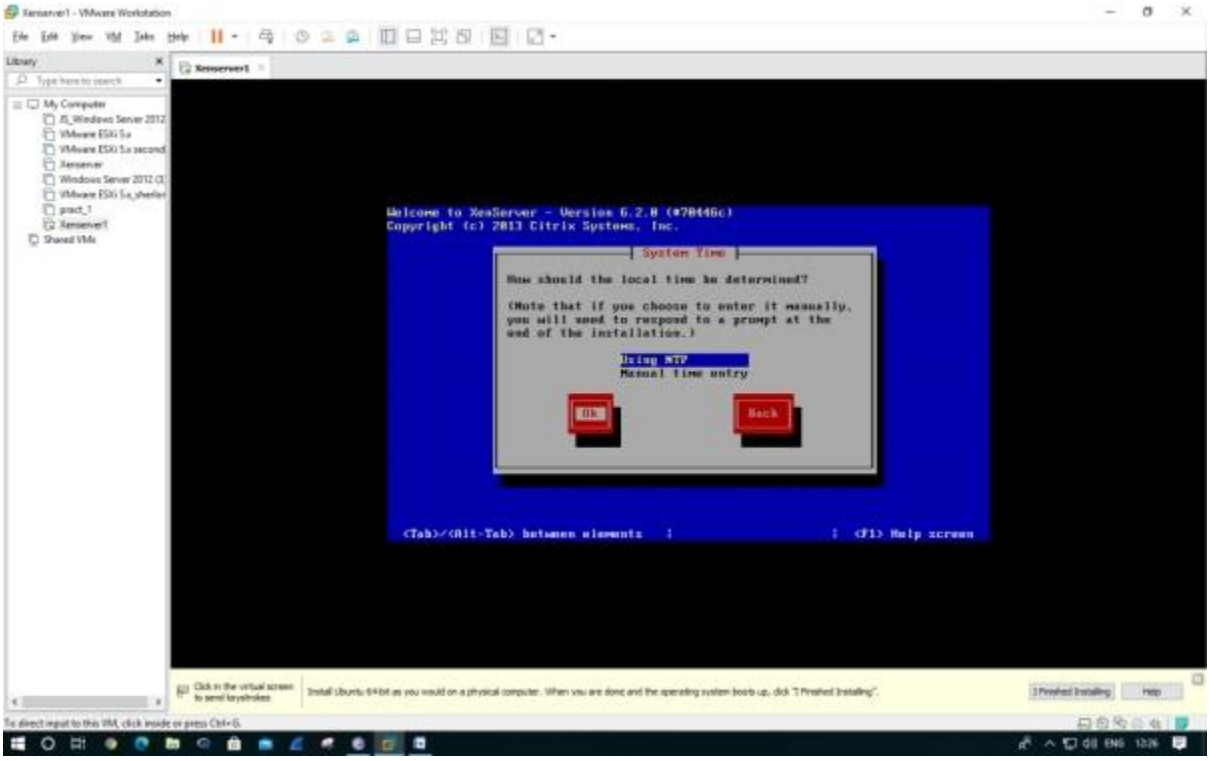
Password root123

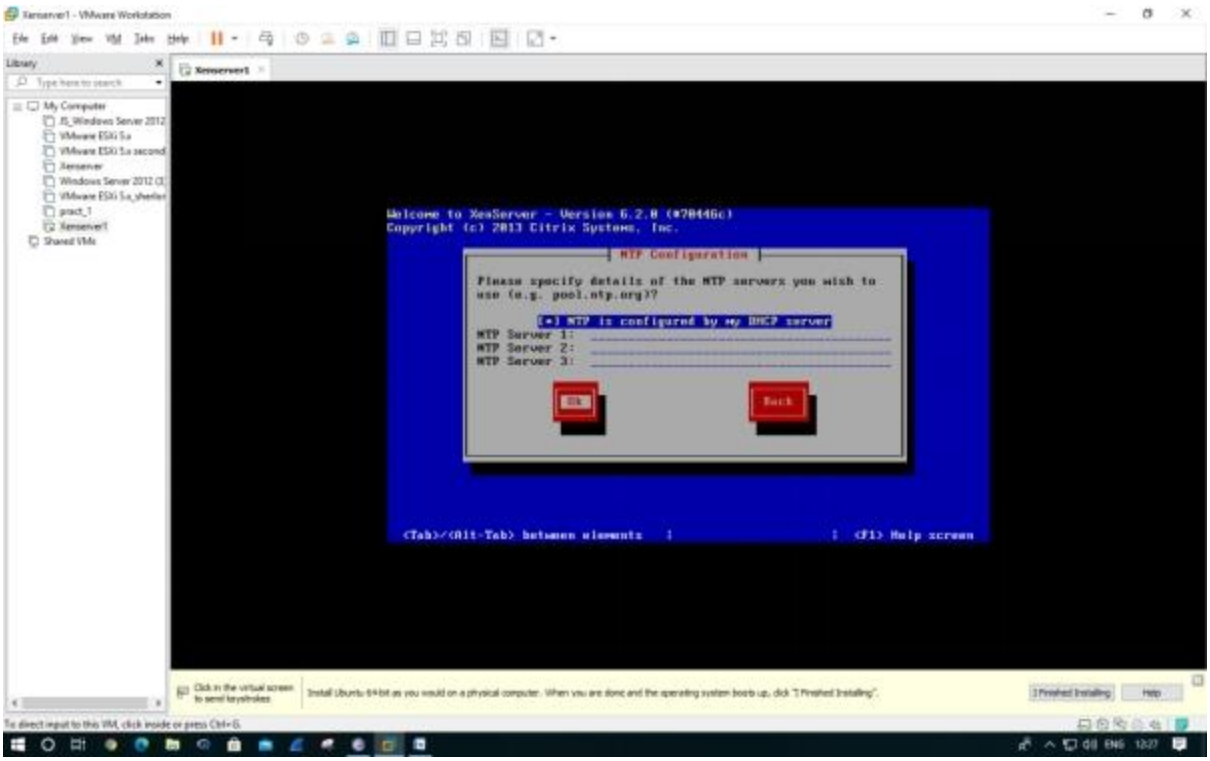


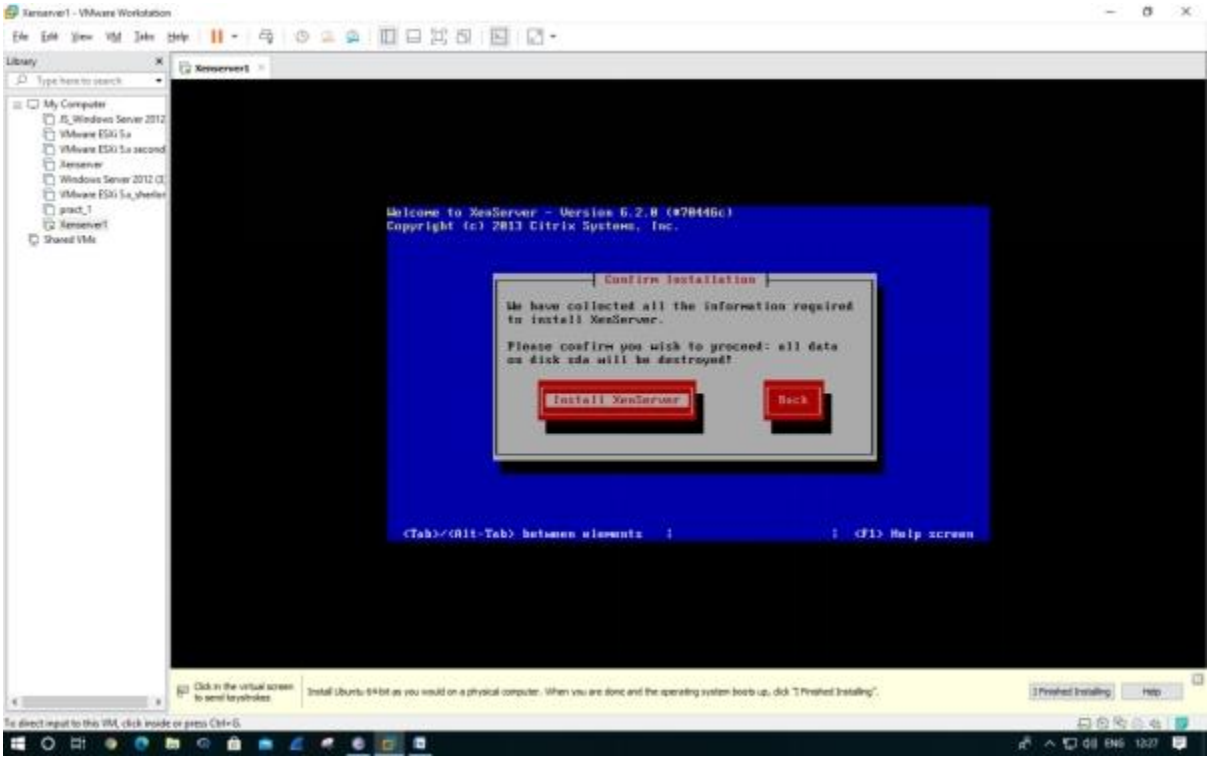

Welcome to XenServer - Version 6.2.0 (#70446c)
Hostname and DNS Configuration
Hostname Configuration
( ) Automatically set via DHCP
(*) Manually specify:
xenserver-ibysiibg
DNS Configuration
(*) Automatically set via DHCP
( ) Manually specify:
DNS Server 1:
DNS Server 2:
DNS Server 3:
OK
Back
<Tab>/<Alt-Tab> between elements
<F1> Help screen

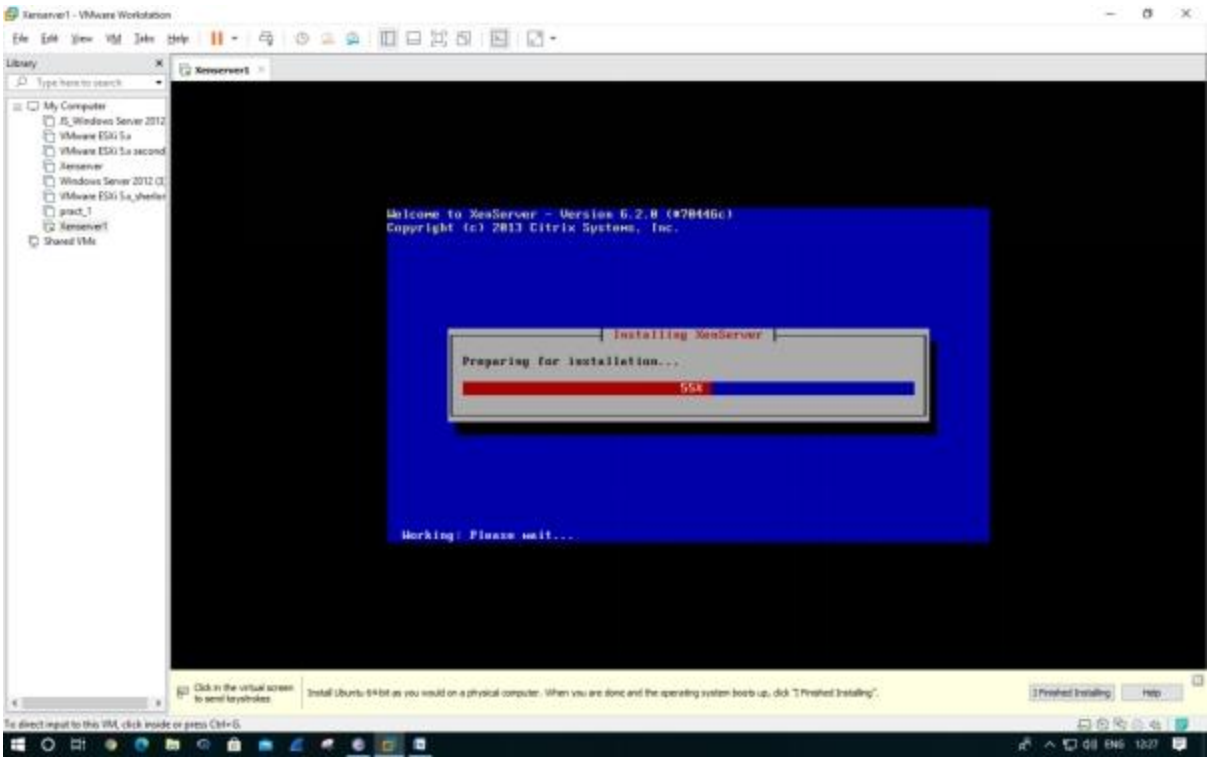

Welcome to XenServer - Version 6.2.0 (#70446c)
Select Time Zone
Please select the geographical area
that your XenServer Host is in:
Africa
America
Antarctica
Arctic
Asia
Atlantic
Australia
Europe
OK
Back
<Tab>/<Alt-Tab> between elements
<F1> Help screen

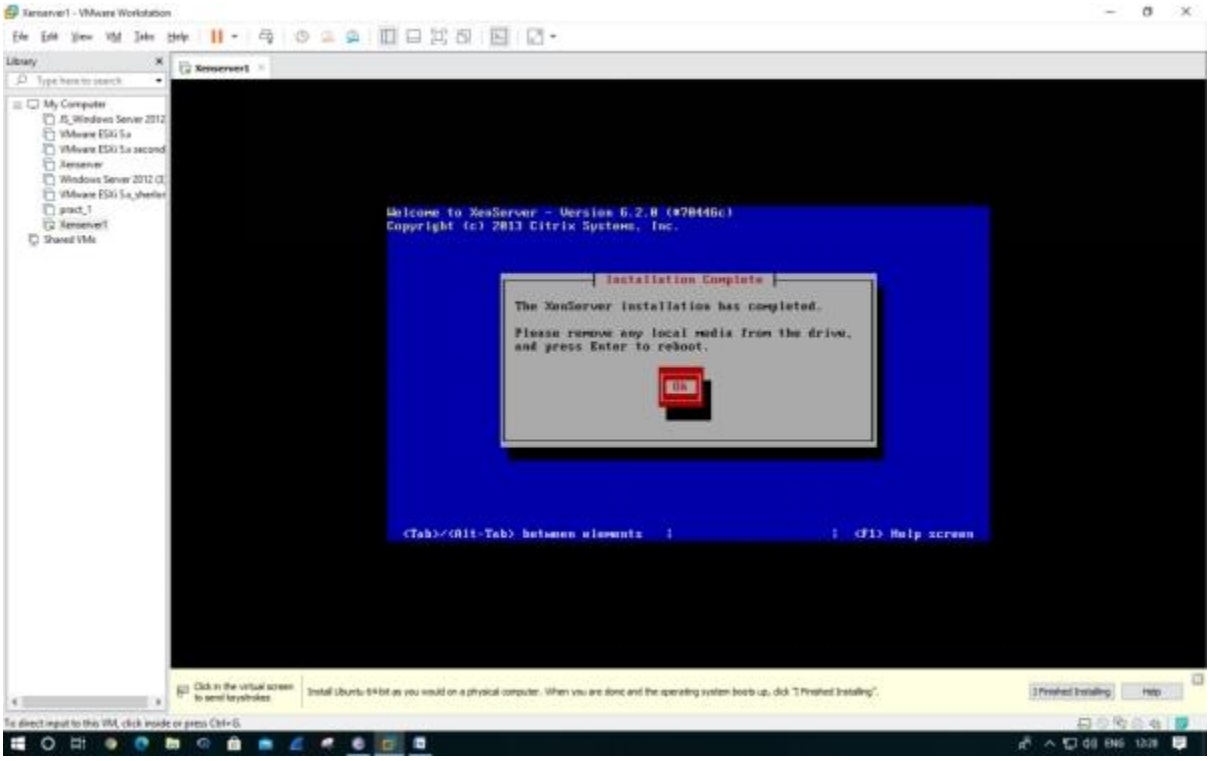

Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013
Select Time Zone
Please select the city or area that the managed host is in (press a letter to jump to that place in the list):
Calcutta
Chokhalsen
Chongqing
Colombo
Damascus
Dhaka
Dili
Dubai
Ok
Back
<Tab>/<Alt-Tab> between elements
<F1> Help screen

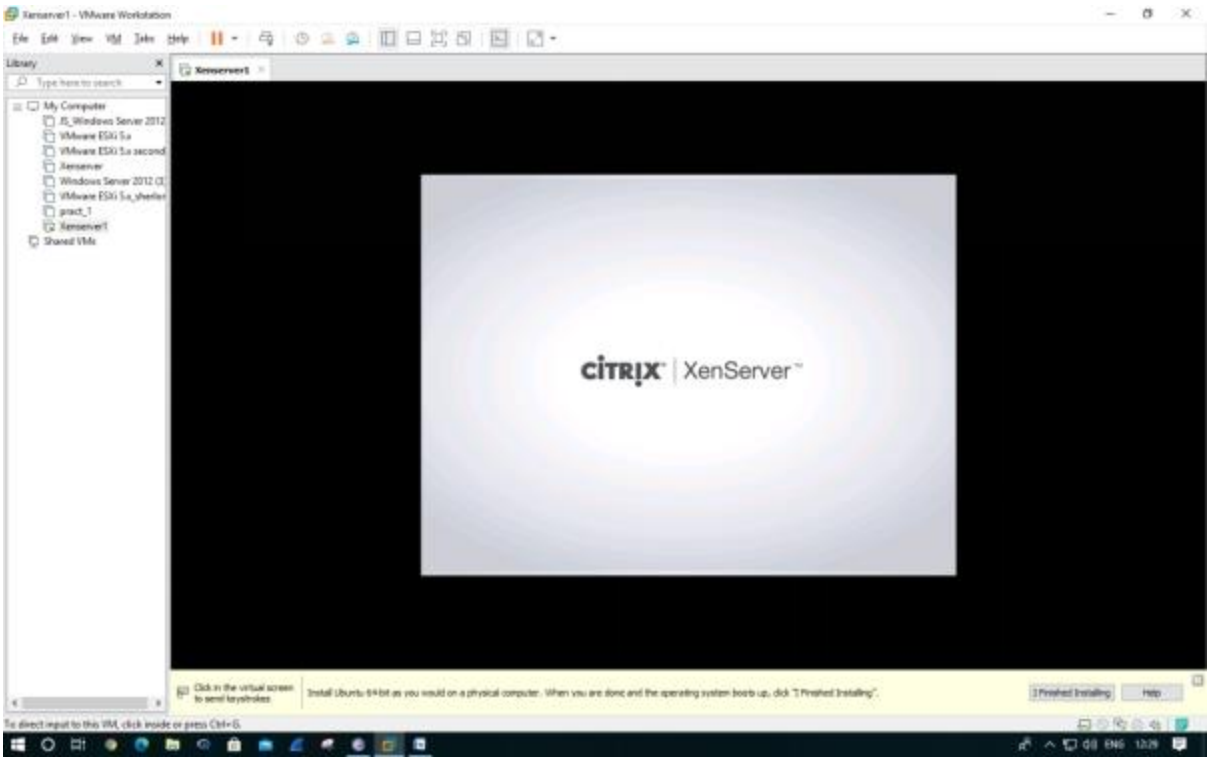

Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
System Time
How should the local time be determined?
(Note that if you choose to enter it manually, you will need to respond to a prompt at the end of the installation.)
Using NTP
Manual time entry
Ok
Back
<Tab>/<Alt-Tab> between elements
<F1> Help screen

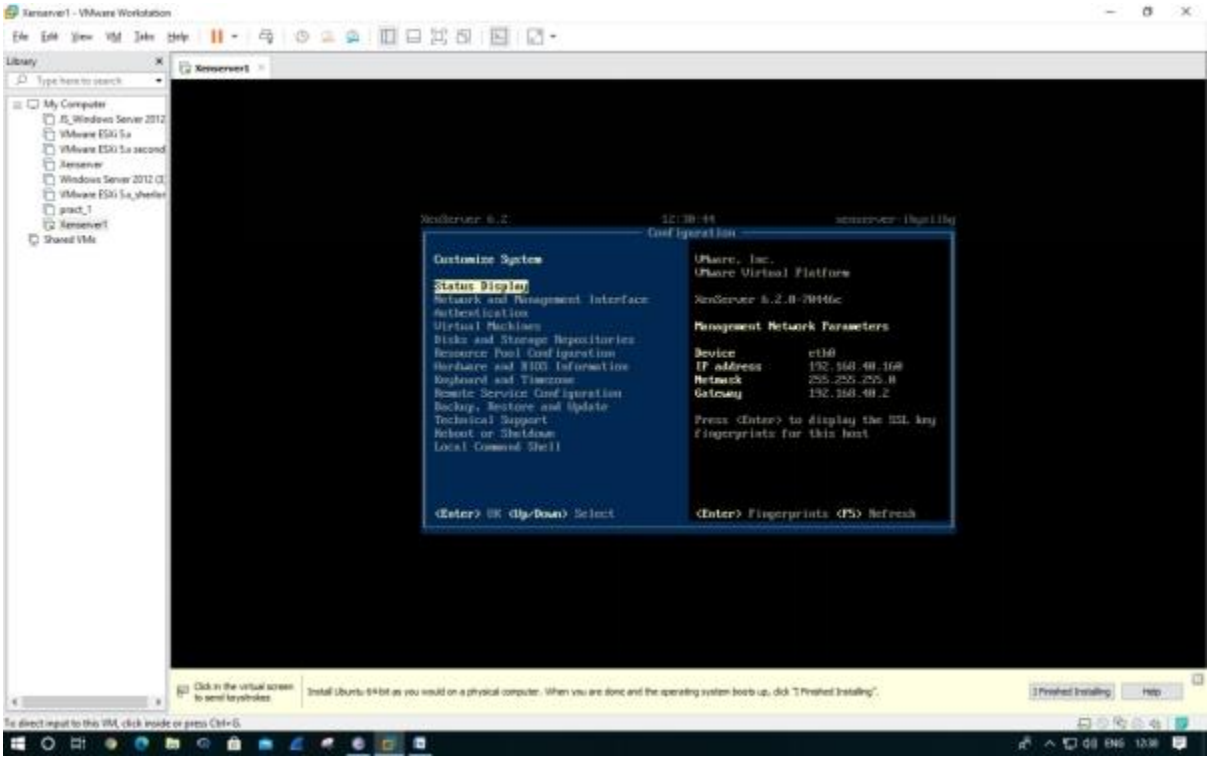

Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
NTP Configuration
Please specify details of the NTP servers you wish to use (e.g. pool.ntp.org)?
[*] NTP is configured by my DHCP server
NTP Server 1:
NTP Server 2:
NTP Server 3:
OK
Back
<Tab>/<Alt-Tab> between elements
<F1> Help screen

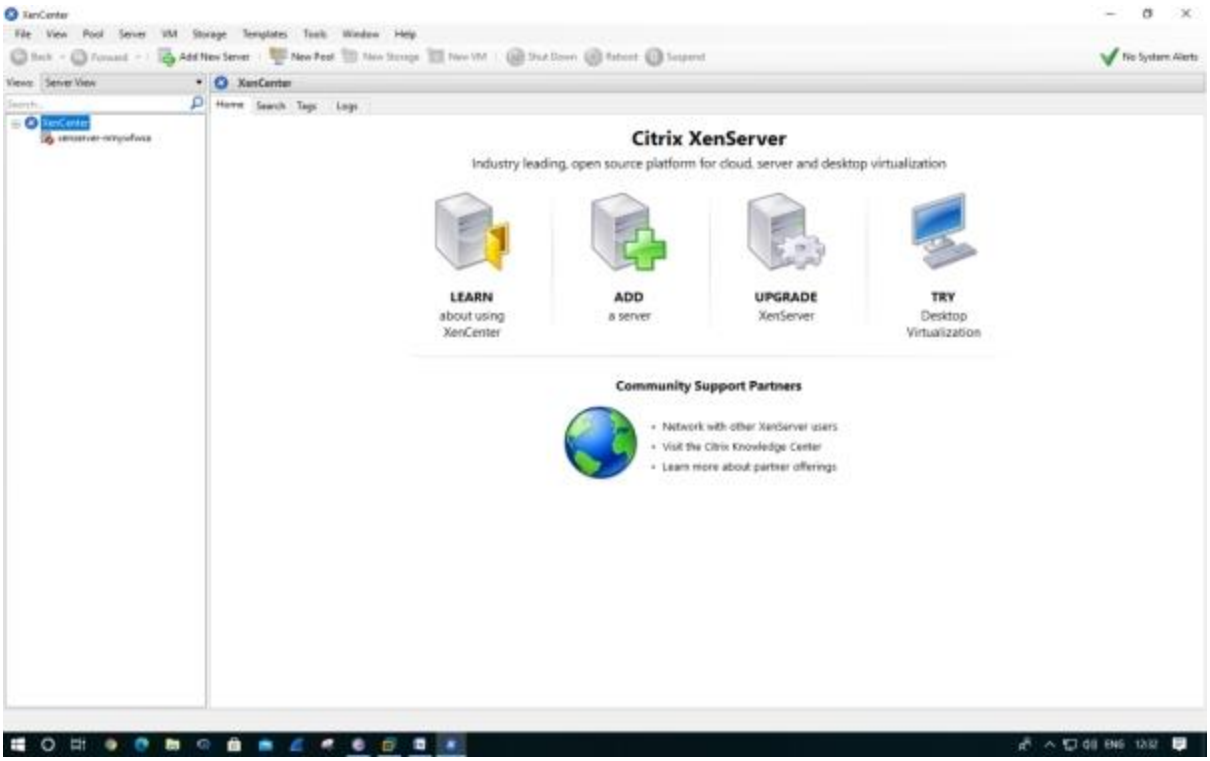

Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
Confirm Installation
We have collected all the information required to install XenServer.
Please confirm you wish to proceed: all data on disk xda will be destroyed!
Install XenServer
Back
<Tab>/<Alt-Tab> between elements
<F1> Help screen


Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
Installing XenServer
Preparing for installation...
55%
Working: Please wait...

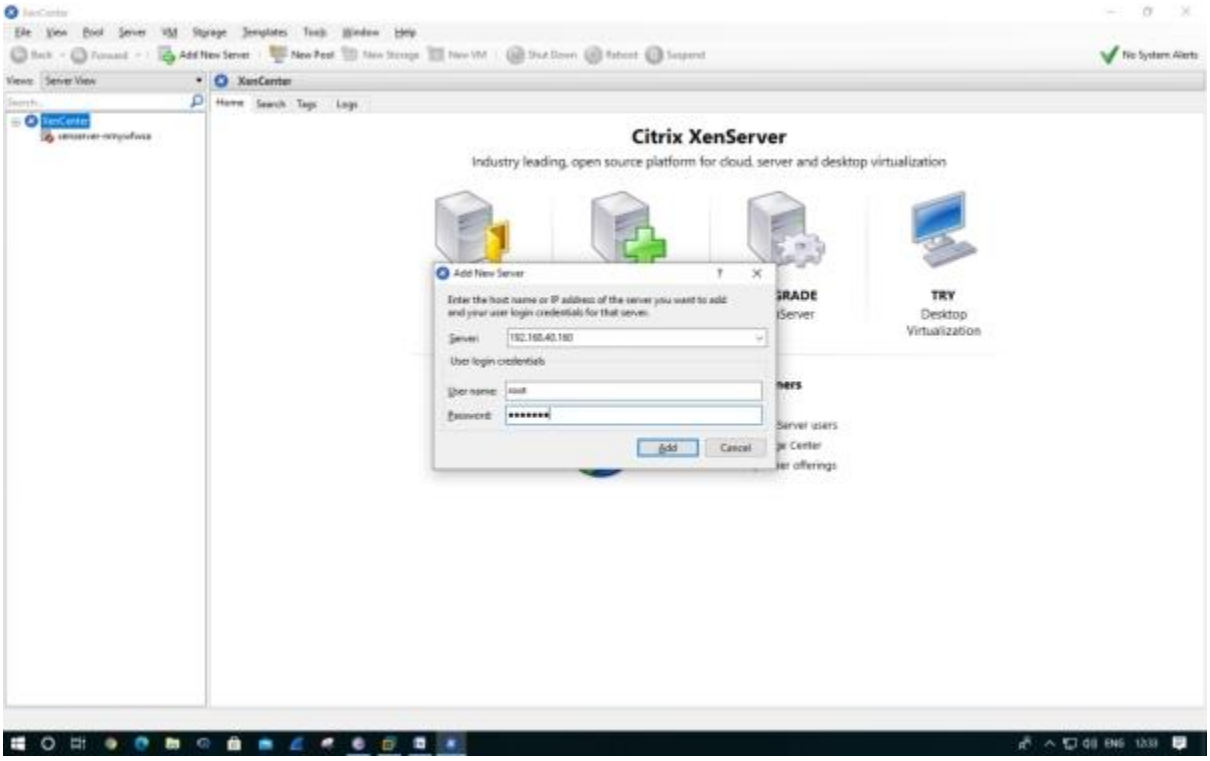

Welcome to XenServer - Version 6.2.0 (#70446c)
Copyright (c) 2013 Citrix Systems, Inc.
Installation Complete
The XenServer installation has completed.
Please remove any local media from the drive,
and press Enter to reboot.
OK
<Tab>/<Alt-Tab> between elements
<F1> Help screen


CITRIX | XenServer™

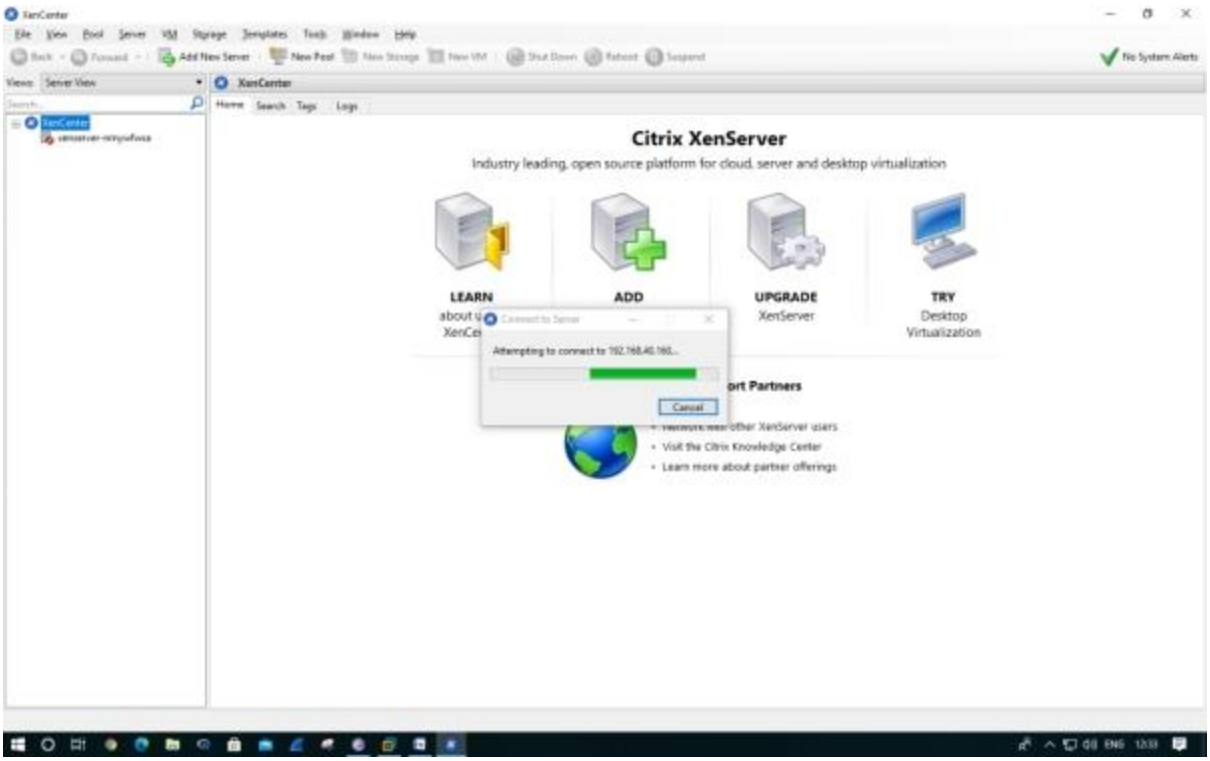

Configuration
Customize System
Status Display
Network and Management Interface
Authentication
Virtual Machines
Disks and Storage Repositories
Resource Pool Configuration
Hardware and BIOS Information
Keyboard and Timezone
Remote Service Configuration
Backup, Restore and Update
Technical Support
Reboot or Shutdown
Local Command Shell
VMware, Inc.
VMware Virtual Platform
Management Network Parameters
Device eth0
IP address 192.168.40.160
Netmask 255.255.255.0
Gateway 192.168.40.2
Press <Enter> to display the SSL key fingerprints for this host
<Enter> OK <Up/Down> Select
<Enter> Fingerprints <F5> Refresh

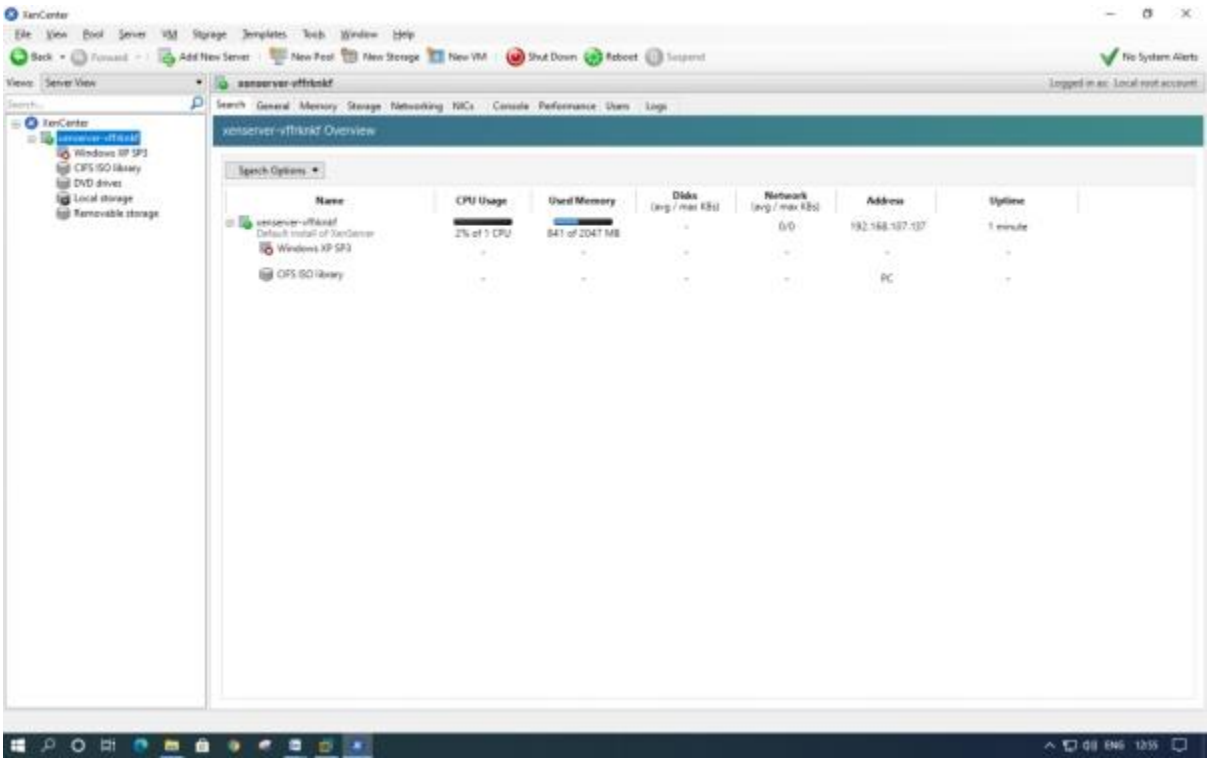


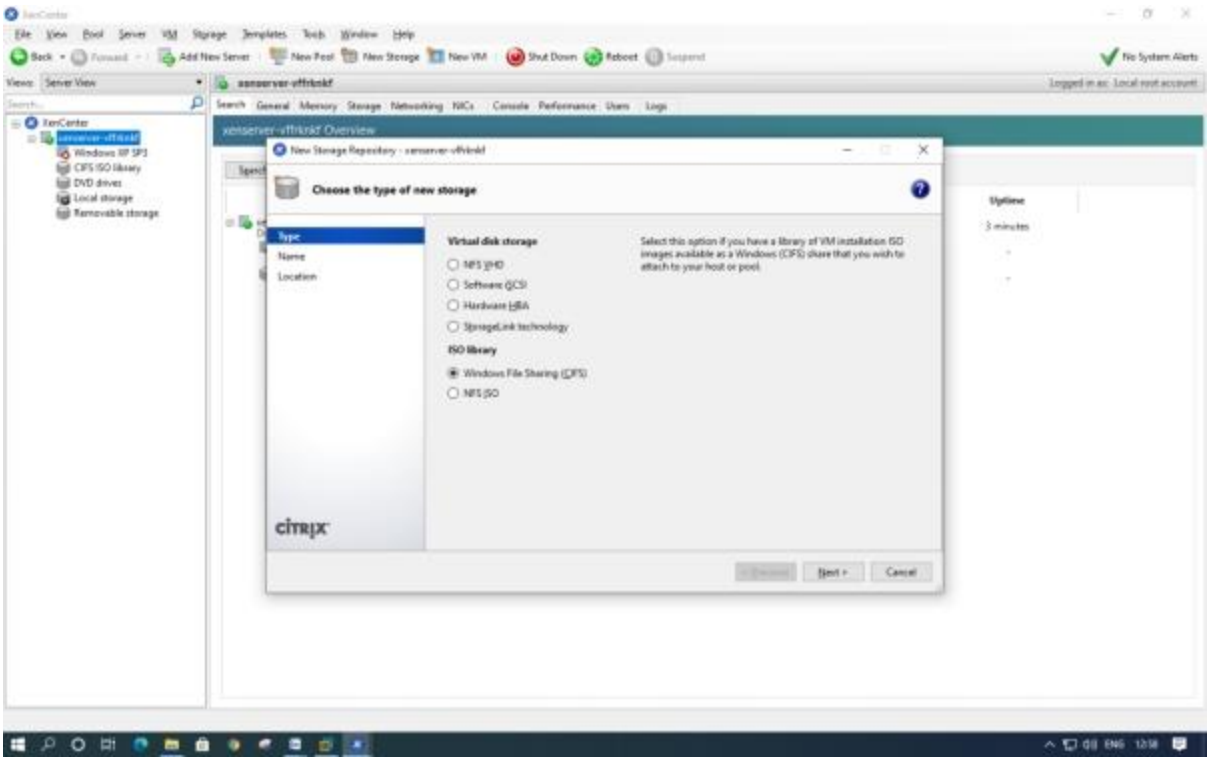
Open Citrix Xenserver



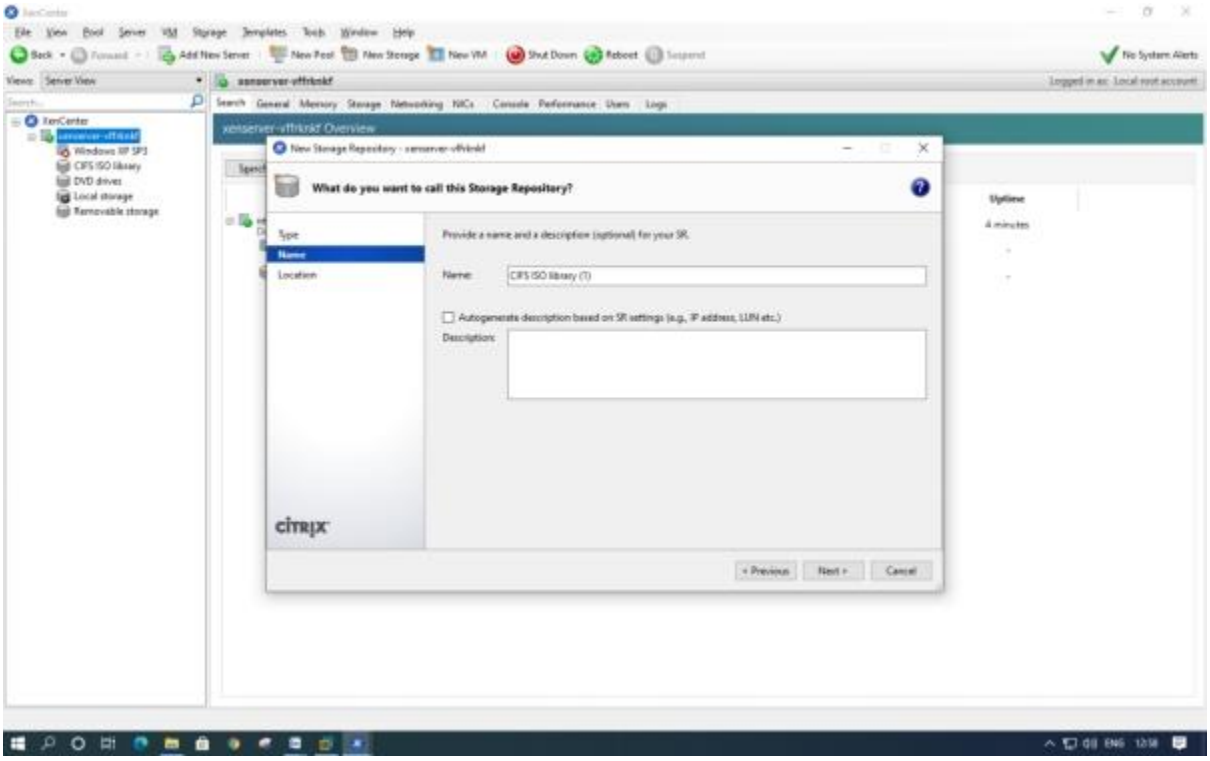
Connect it with the output we got in workstation select server as we got in the output with password as ‘root123’.

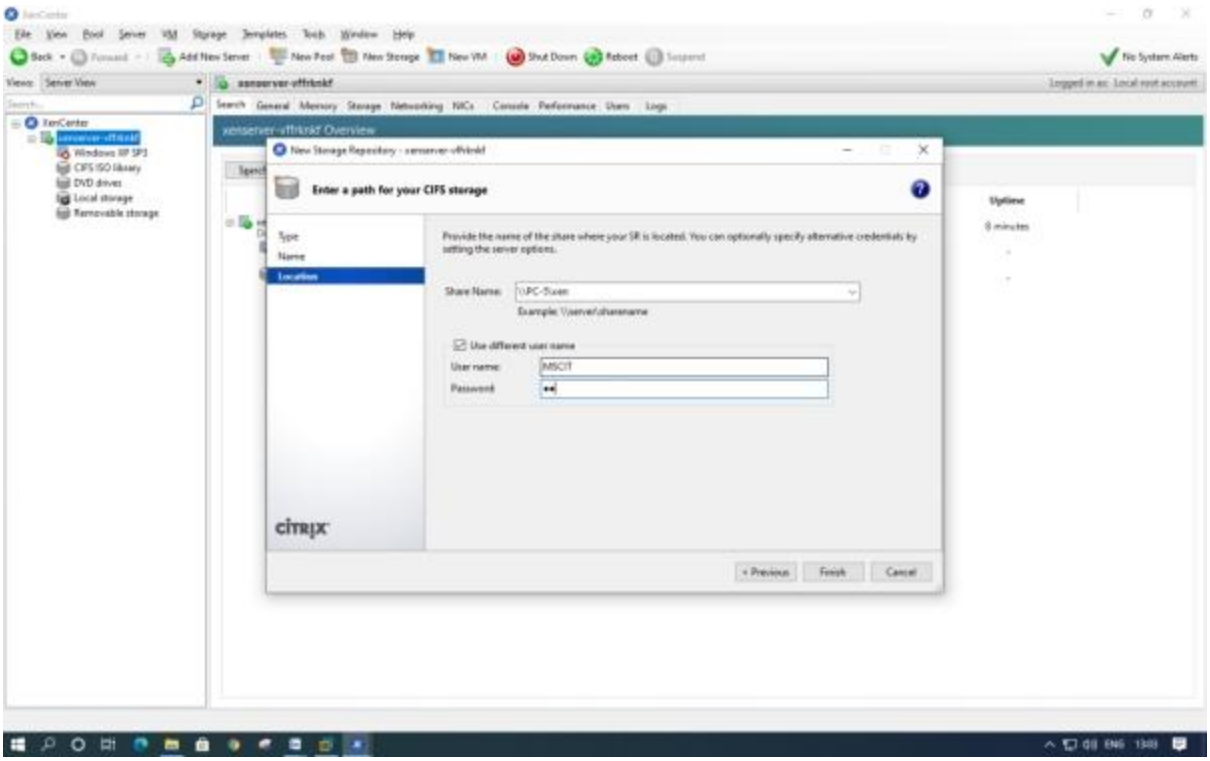

XenCenter
Citrix XenServer
Industry leading, open source platform for cloud, server and desktop virtualization
LEARN
ADD
UPGRADE
XenServer
TRY
Desktop
Virtualization
Cancel

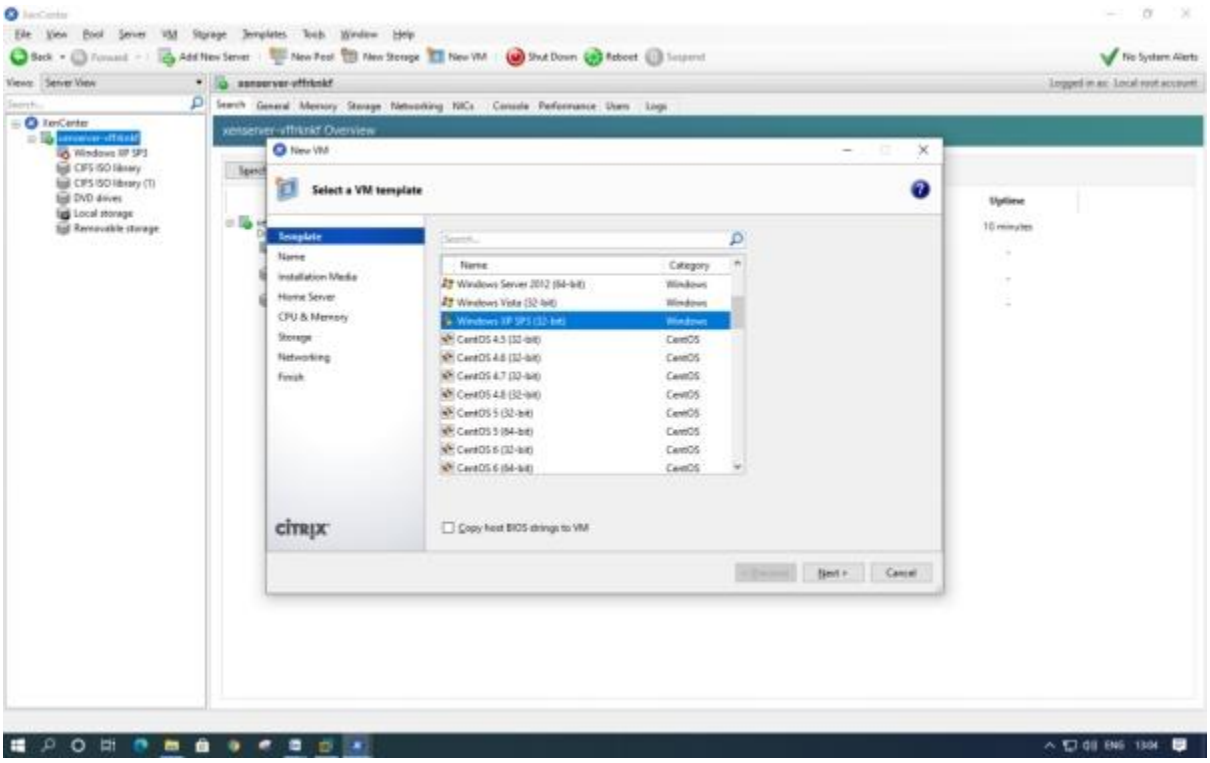

XenCenter
xenserver-vffrknkf Overview
Name
CPU Usage
Used Memory
Address
Uptime



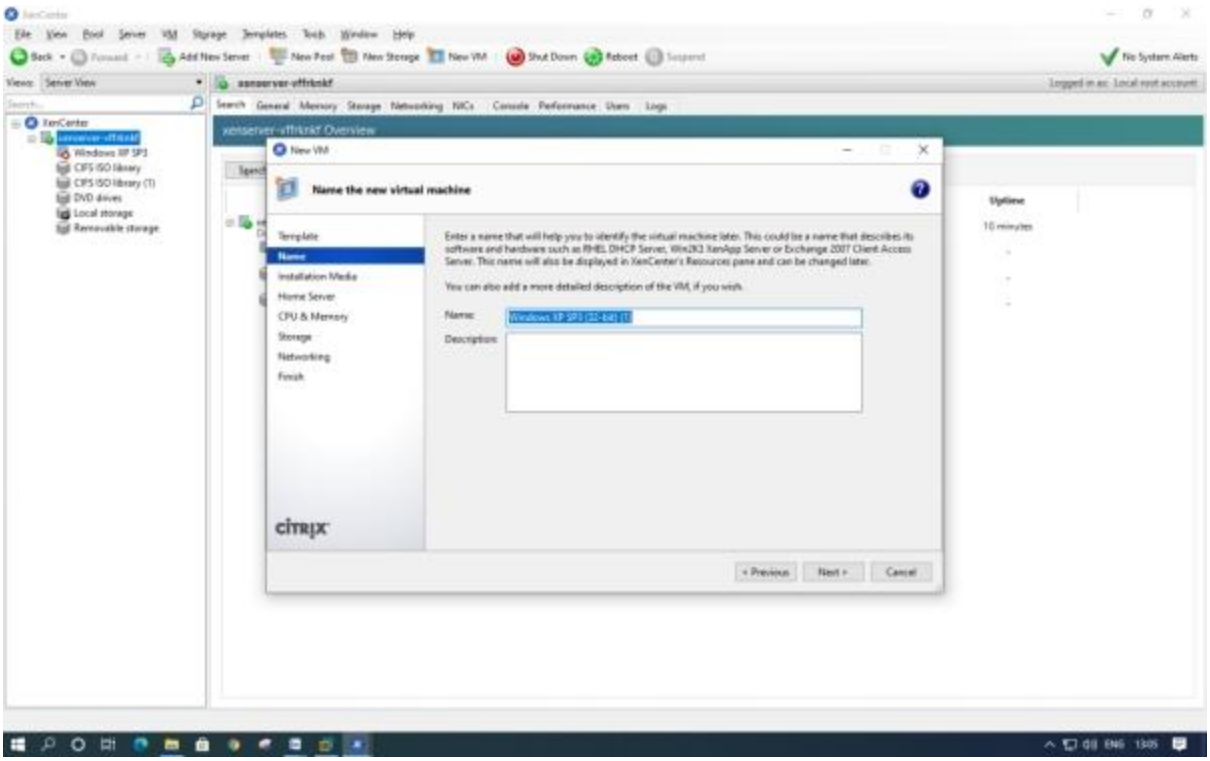
Select iso library option

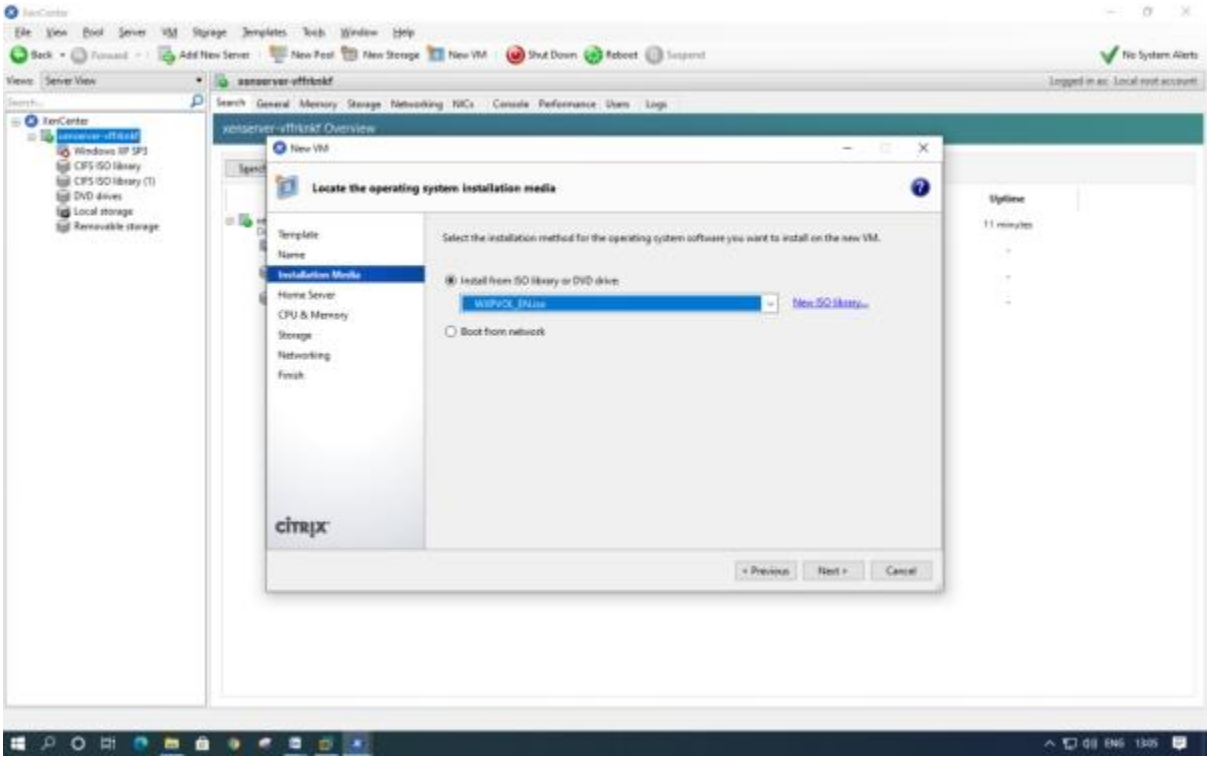


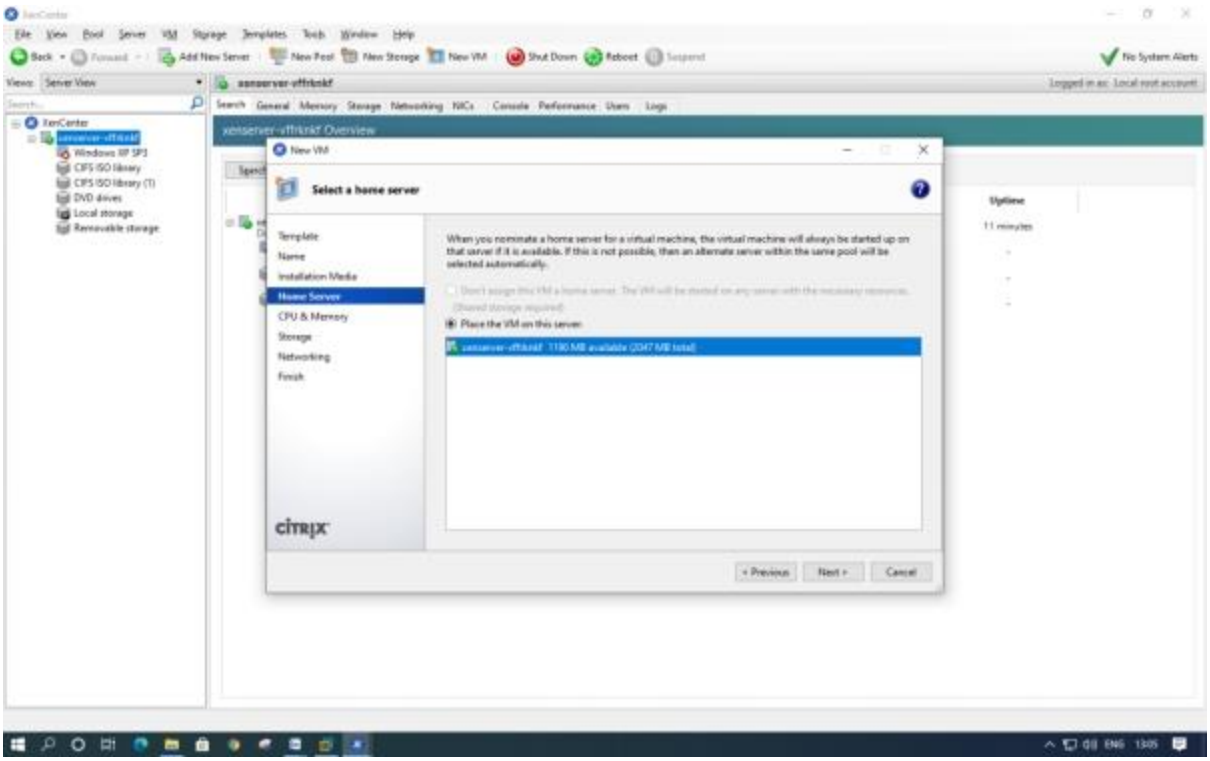


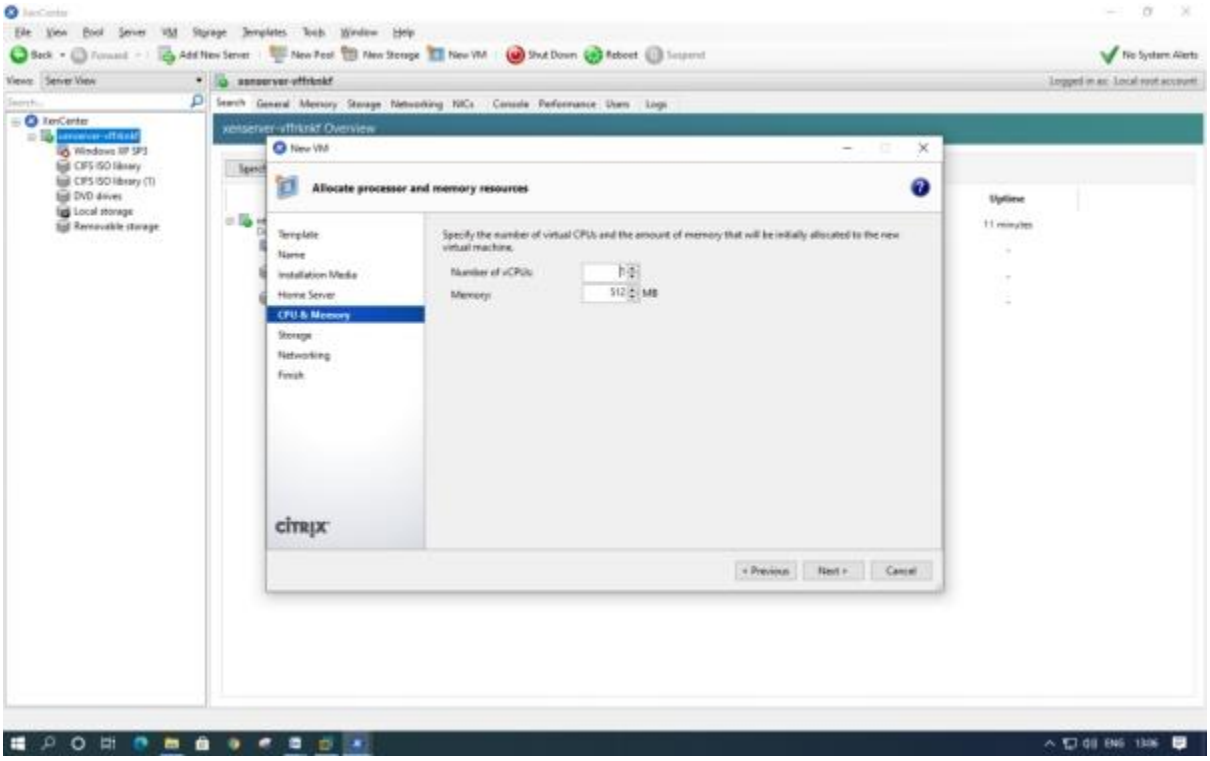


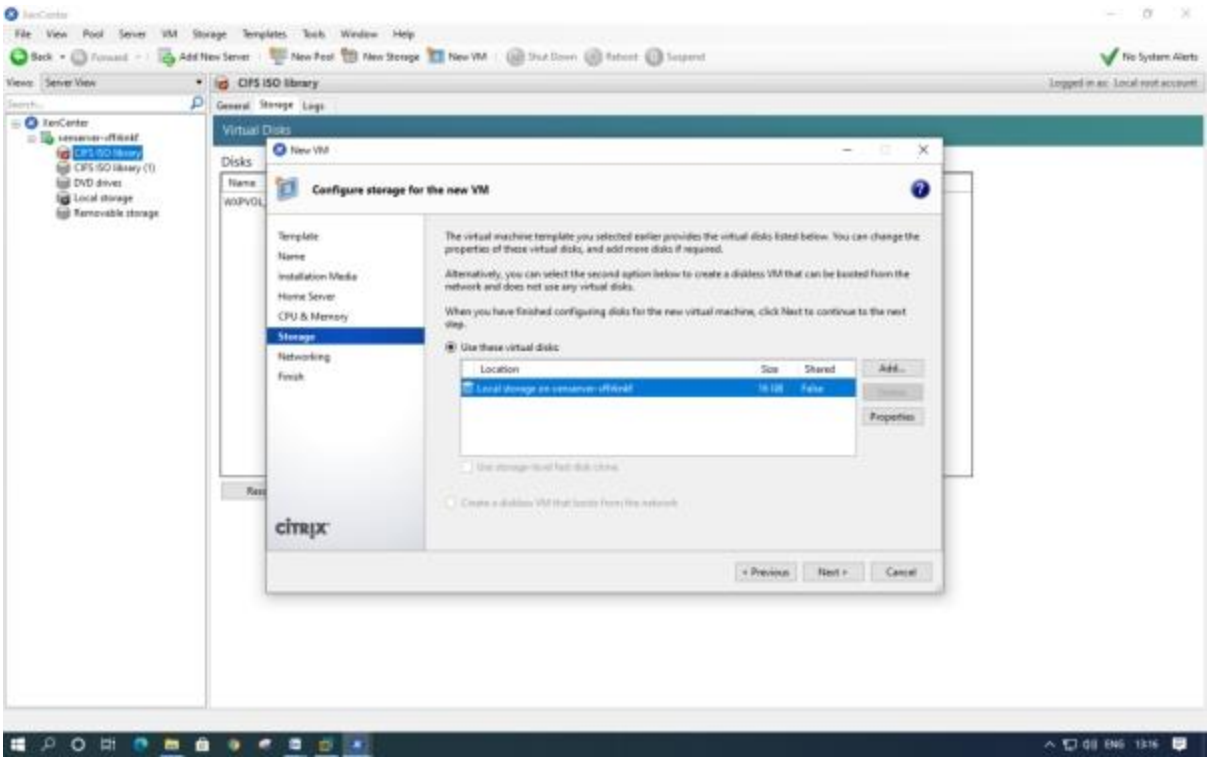
Open new VM option select Windows XP SP3(32-bit) option.

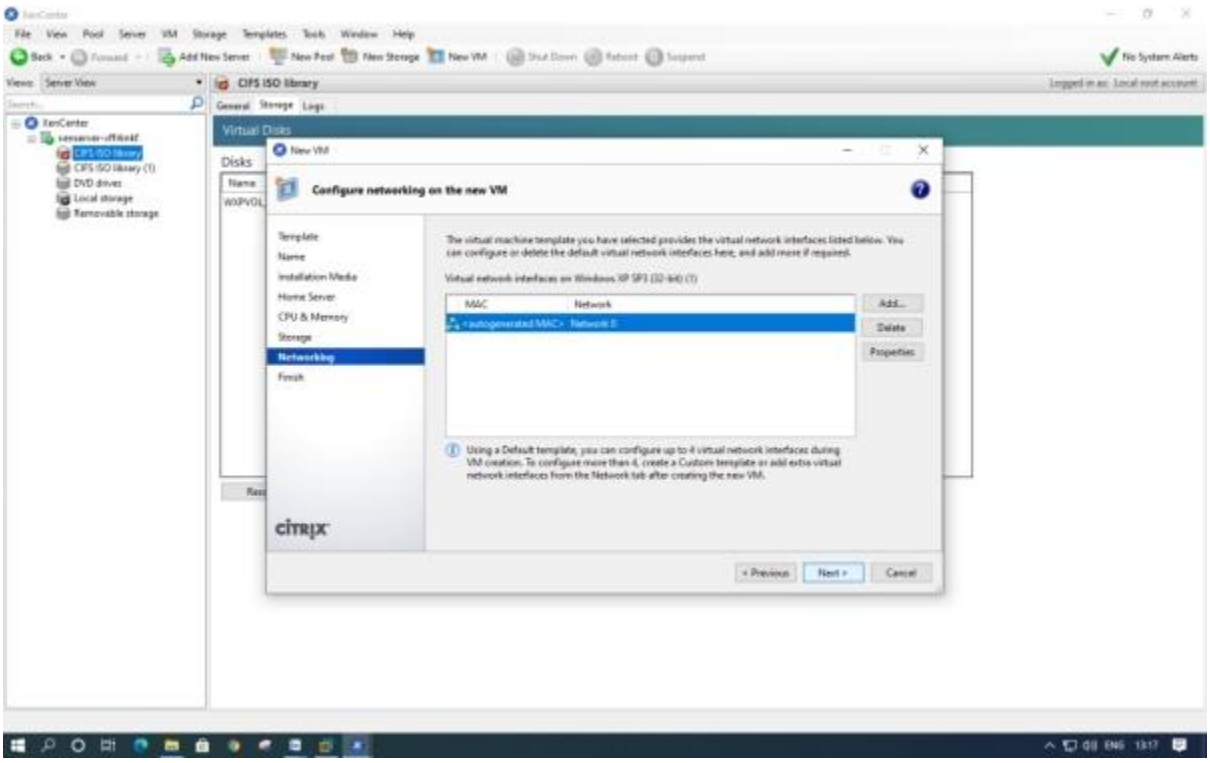

New VM
Name the new virtual machine
Template
Name
Installation Media
Home Server
CPU & Memory
Storage
Networking
Finish
Name:
Description:
CITRIX
< Previous
Next >
Cancel

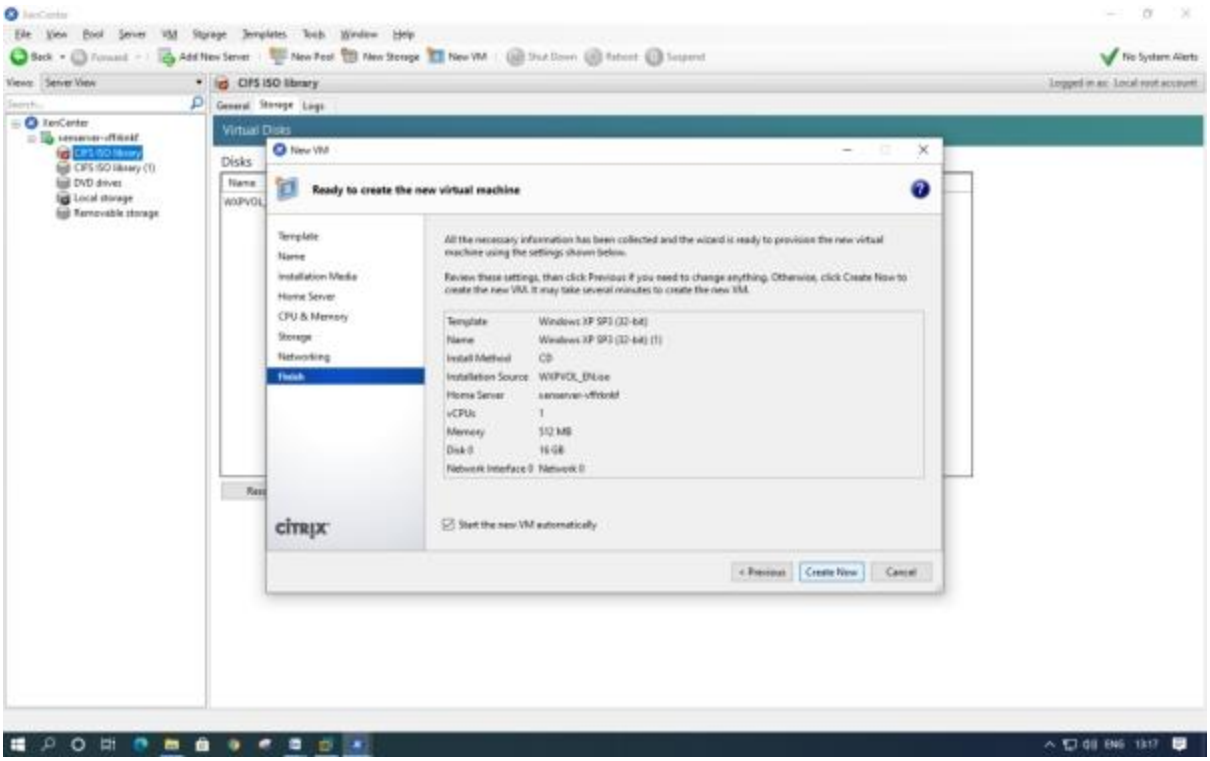

New VM
Locate the operating system installation media
Template
Name
Installation Media
Home Server
CPU & Memory
Storage
Networking
Finish
Select the installation method for the operating system software you want to install on the new VM.
Install from ISO library or DVD drive:
New ISO library...
Boot from network
CITRIX
< Previous
Next >
Cancel

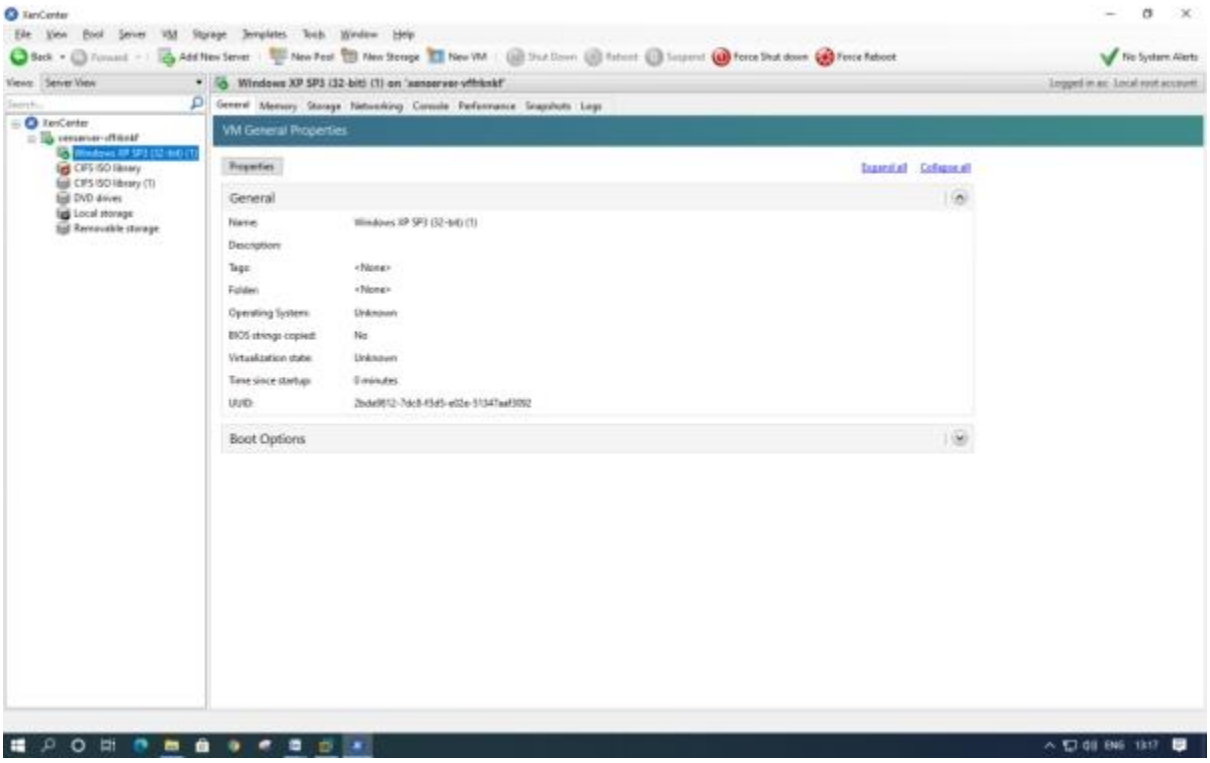

New VM
Select a home server
Template
Name
Installation Media
Home Server
CPU & Memory
Storage
Networking
Finish
When you nominate a home server for a virtual machine, the virtual machine will always be started up on that server if it is available. If this is not possible, then an alternate server within the same pool will be selected automatically.
Place the VM on this server:
< Previous
Next >
Cancel

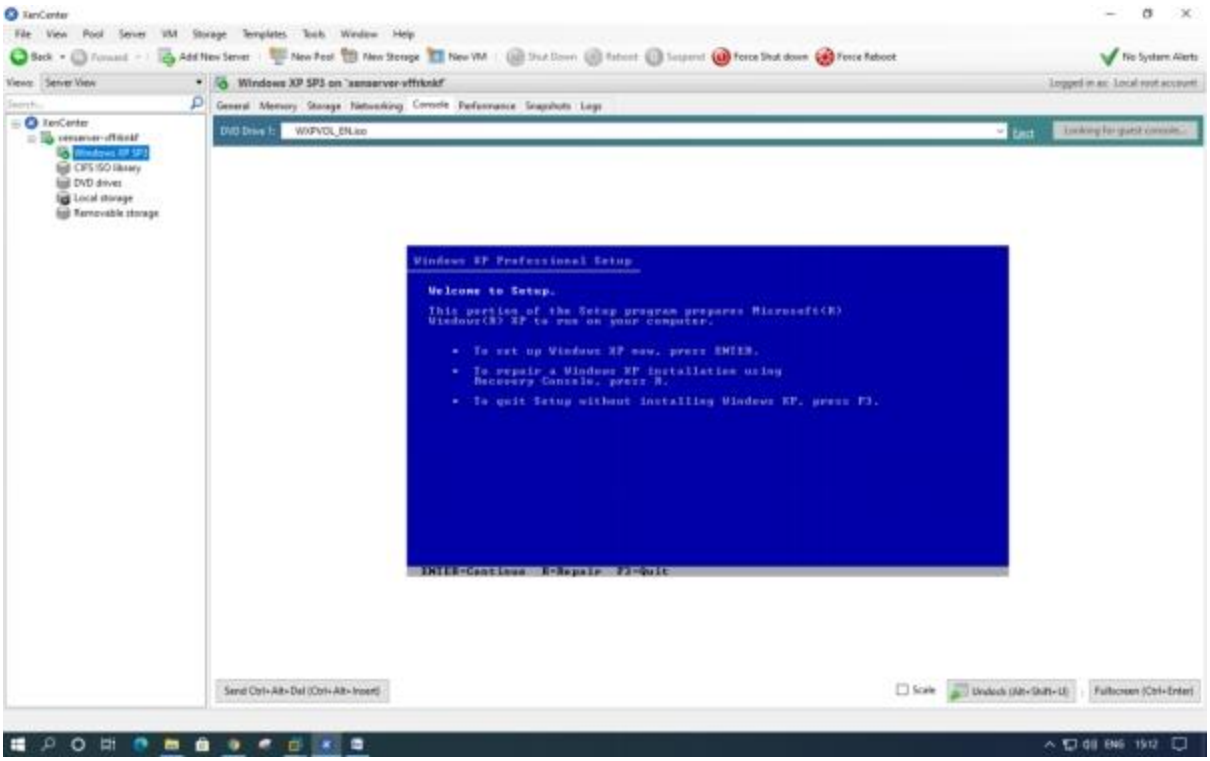

New VM
Allocate processor and memory resources
Template
Name
Installation Media
Home Server
CPU & Memory
Storage
Networking
Finish
Specify the number of virtual CPUs and the amount of memory that will be initially allocated to the new virtual machine.
Number of vCPUs:
Memory:
512
MB
< Previous
Next >
Cancel


New VM
Configure storage for the new VM
Template
Name
Installation Media
Home Server
CPU & Memory
Storage
Networking
Finish
Use these virtual disks
Location
Size
Shared
Add...
Delete
Properties
CITRIX
< Previous
Next >
Cancel


New VM
Configure networking on the new VM
Template
Name
Installation Media
Home Server
CPU & Memory
Storage
Networking
Finish
MAC
Network
Add...
Delete
Properties
CITRIX
< Previous
Next >
Cancel


New VM
Ready to create the new virtual machine
Template
Name
Installation Media
Home Server
CPU & Memory
Storage
Networking
Finish
Windows XP SP3 (32-bit)
Windows XP SP3 (32-bit) (1)
CD
512 MB
16 GB
Start the new VM automatically
< Previous
Create Now
Cancel

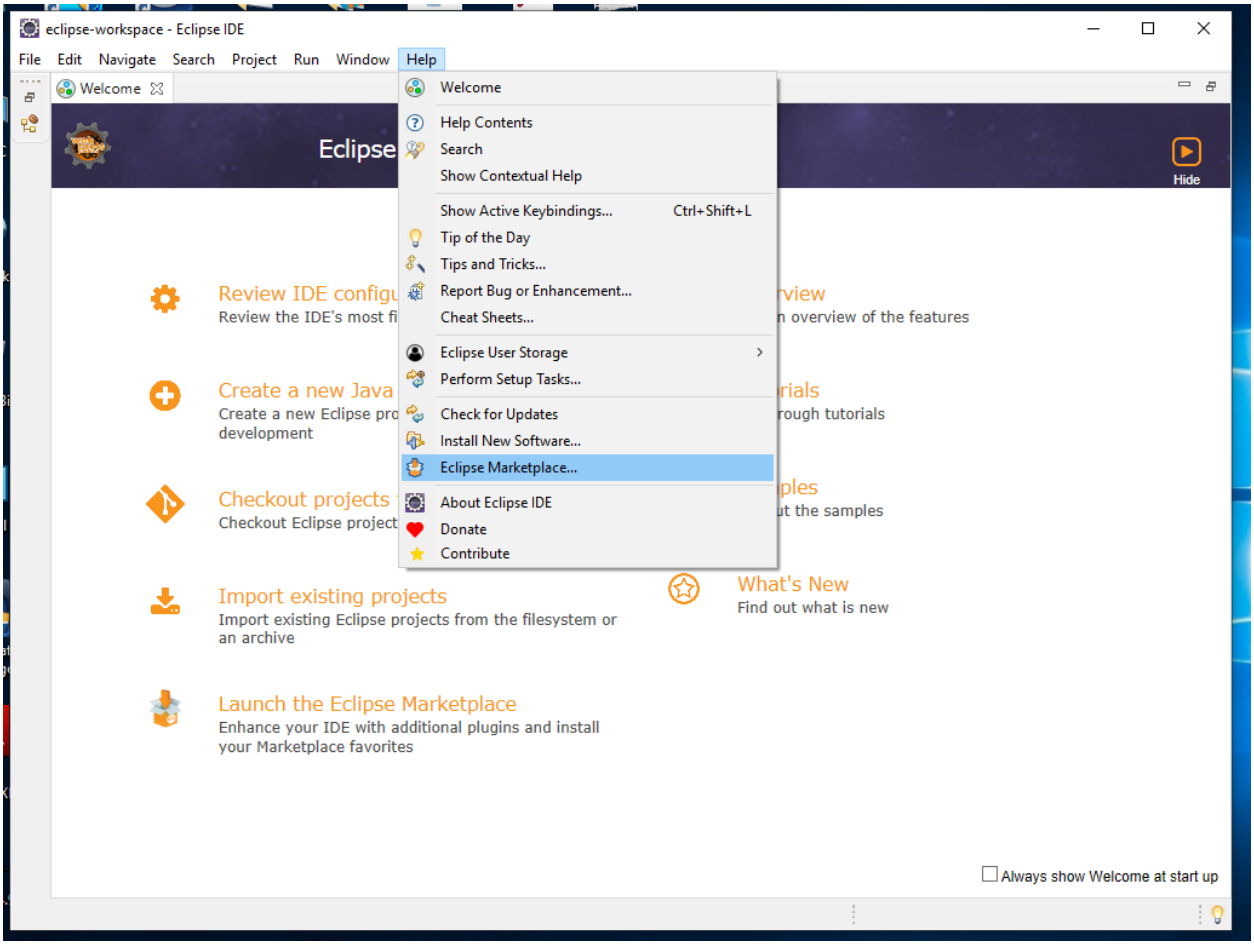

Windows XP SP3 (32-bit) (1) on 'xenserver-vffhknkf'
VM General Properties
General
Name
Windows XP SP3 (32-bit) (1)
Description
Tags
Folder
Operating System
Unknown
BIOS strings copied
No
Virtualization state
Unknown
Time since startup
UUID
Boot Options


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
No System Alerts
Views: Server View
Search...
XenCenter
xenserver-vffrknkf
Windows XP SP3
CIFS ISO library
DVD drives
Local storage
Removable storage
Windows XP SP3 on 'xenserver-vffrknkf'
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
Unstuck (Alt+Shift+U)
Fullscreen (Ctrl+Enter)
ENG
15:12

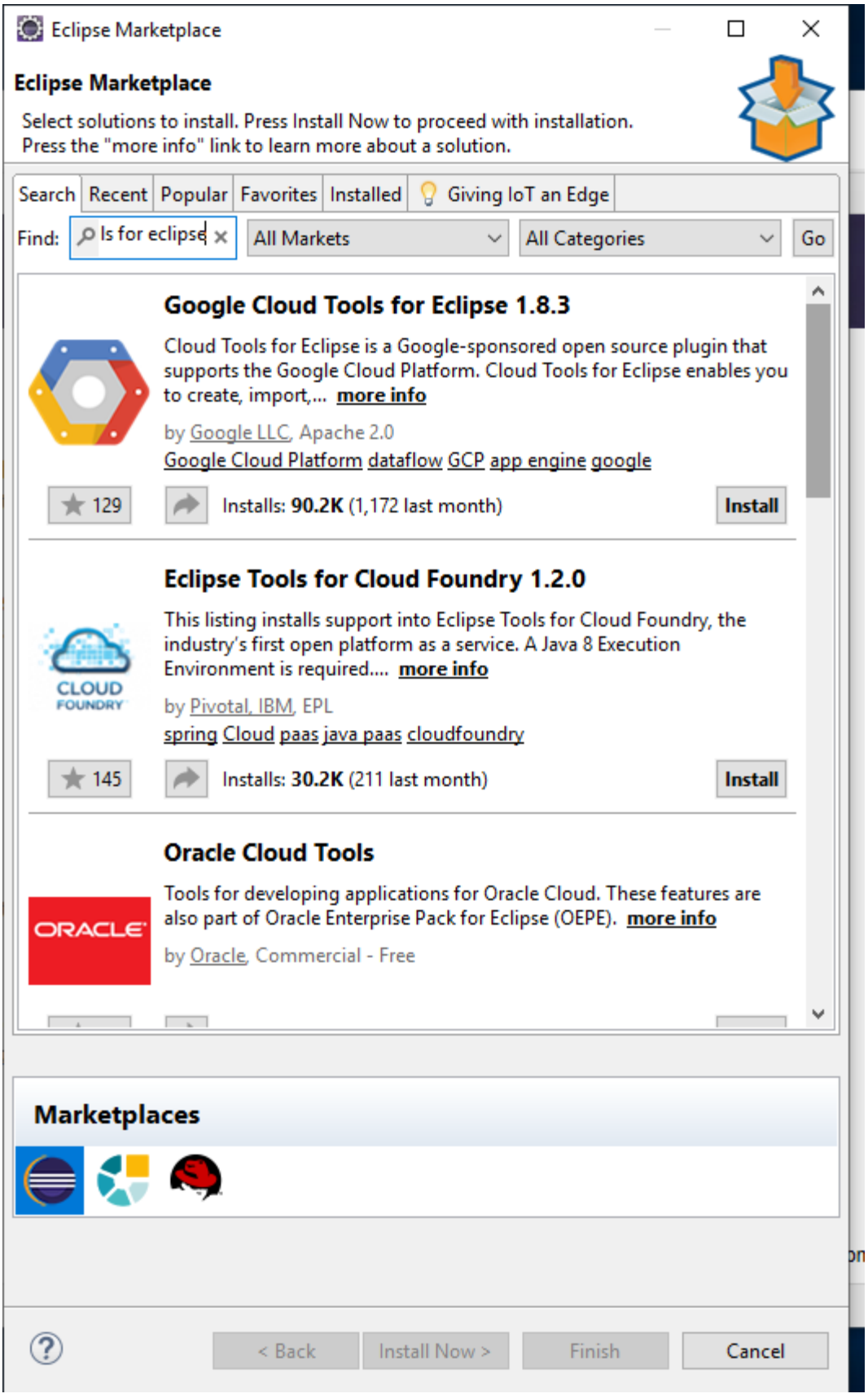
Practical No. 4

Implementing search Engine (Google App Engine)

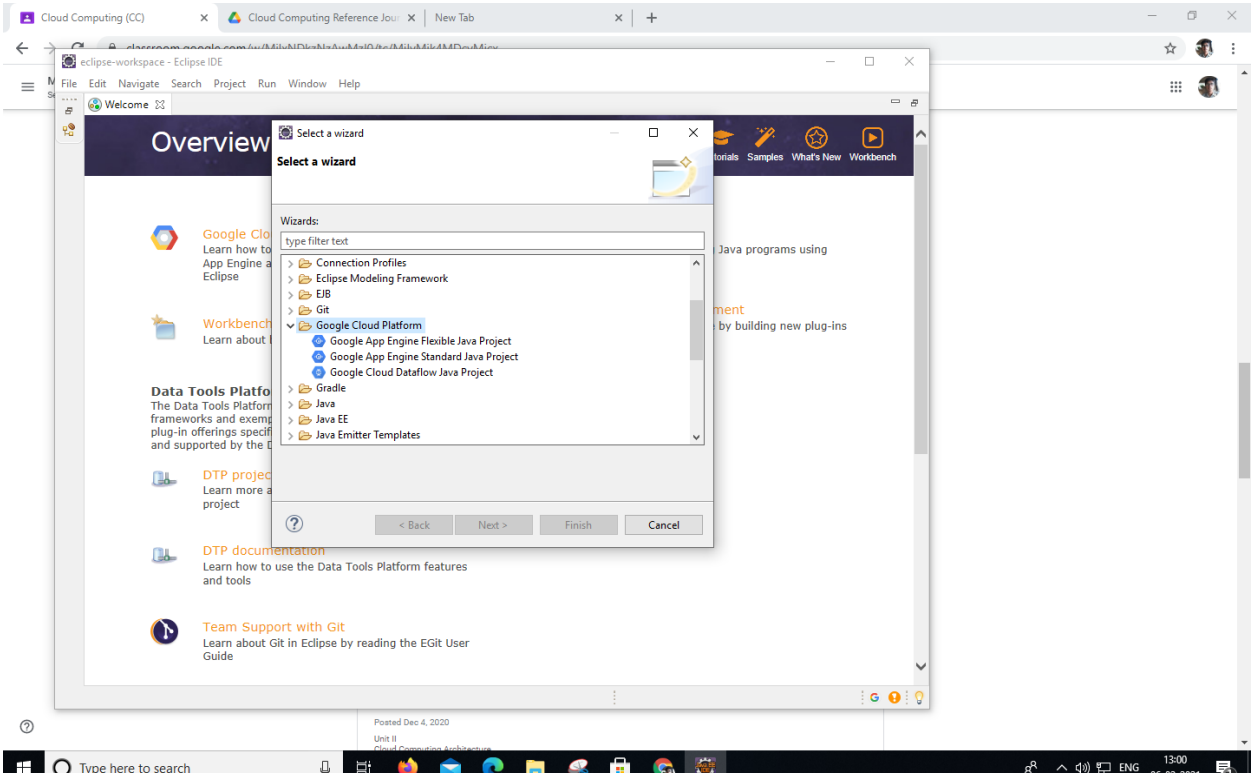
Open Eclispe IDE 2020-12. Go to Help Menu-> Eclipse Marketplace


eclipse-workspace - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Welcome
Eclipse
Hide
Welcome
Help Contents
Search
Show Contextual Help
Show Active Keybindings... Ctrl+Shift+L
Tip of the Day
Tips and Tricks...
Report Bug or Enhancement...
Cheat Sheets...
Eclipse User Storage
Perform Setup Tasks...
Check for Updates
Install New Software...
Eclipse Marketplace...
About Eclipse IDE
Donate
Contribute
Review IDE configu
Review the IDE's most fi
rview
n overview of the features
Create a new Java
Create a new Eclipse pro
development
rials
rough tutorials
Checkout projects
Checkout Eclipse project
ples
ut the samples
Import existing projects
Import existing Eclipse projects from the filesystem or an archive
What's New
Find out what is new
Launch the Eclipse Marketplace
Enhance your IDE with additional plugins and install your Marketplace favorites
Always show Welcome at start up

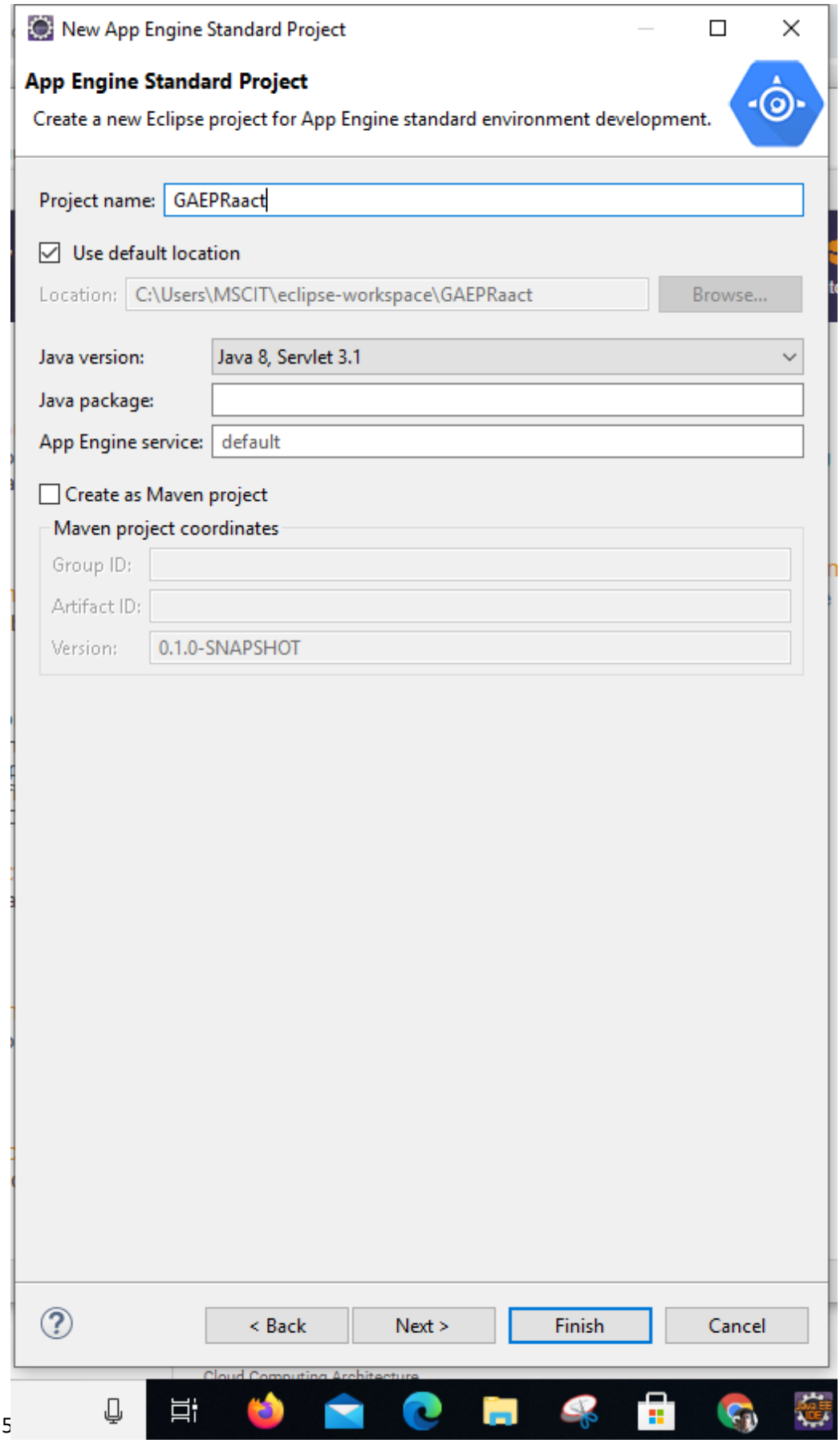
Select Google Cloud Tools for Eclipse 1.8.3 and Install


Eclipse Marketplace
Eclipse Marketplace
Select solutions to install. Press Install Now to proceed with installation.
Press the "more info" link to learn more about a solution.
Search
Recent
Popular
Favorites
Installed
Giving IoT an Edge
Find:
ls for eclipse
All Markets
All Categories
Go
Google Cloud Tools for Eclipse 1.8.3
Cloud Tools for Eclipse is a Google-sponsored open source plugin that supports the Google Cloud Platform. Cloud Tools for Eclipse enables you to create, import,... more info
by Google LLC, Apache 2.0
Google Cloud Platform dataflow GCP app engine google
129
Installs: 90.2K (1,172 last month)
Install
Eclipse Tools for Cloud Foundry 1.2.0
This listing installs support into Eclipse Tools for Cloud Foundry, the industry's first open platform as a service. A Java 8 Execution Environment is required.... more info
by Pivotal, IBM, EPL
spring Cloud paas java paas cloudfoundry
145
Installs: 30.2K (211 last month)
Install
Oracle Cloud Tools
Tools for developing applications for Oracle Cloud. These features are also part of Oracle Enterprise Pack for Eclipse (OEPE). more info
by Oracle, Commercial - Free
Marketplaces
< Back
Install Now >
Finish
Cancel

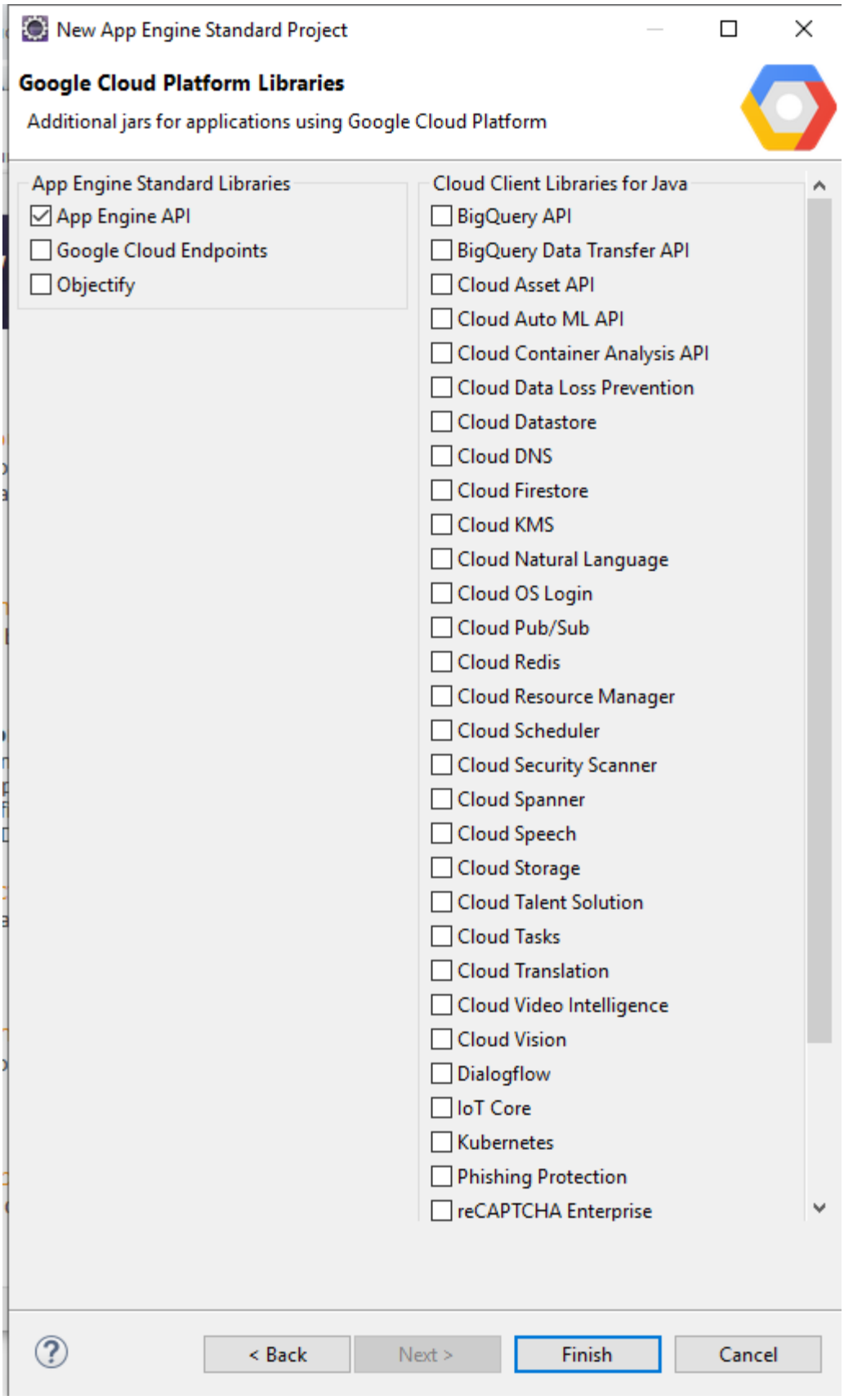
From SELECT A WIZARD, click Google Cloud Platform and select Google App Engine Standard Java Project

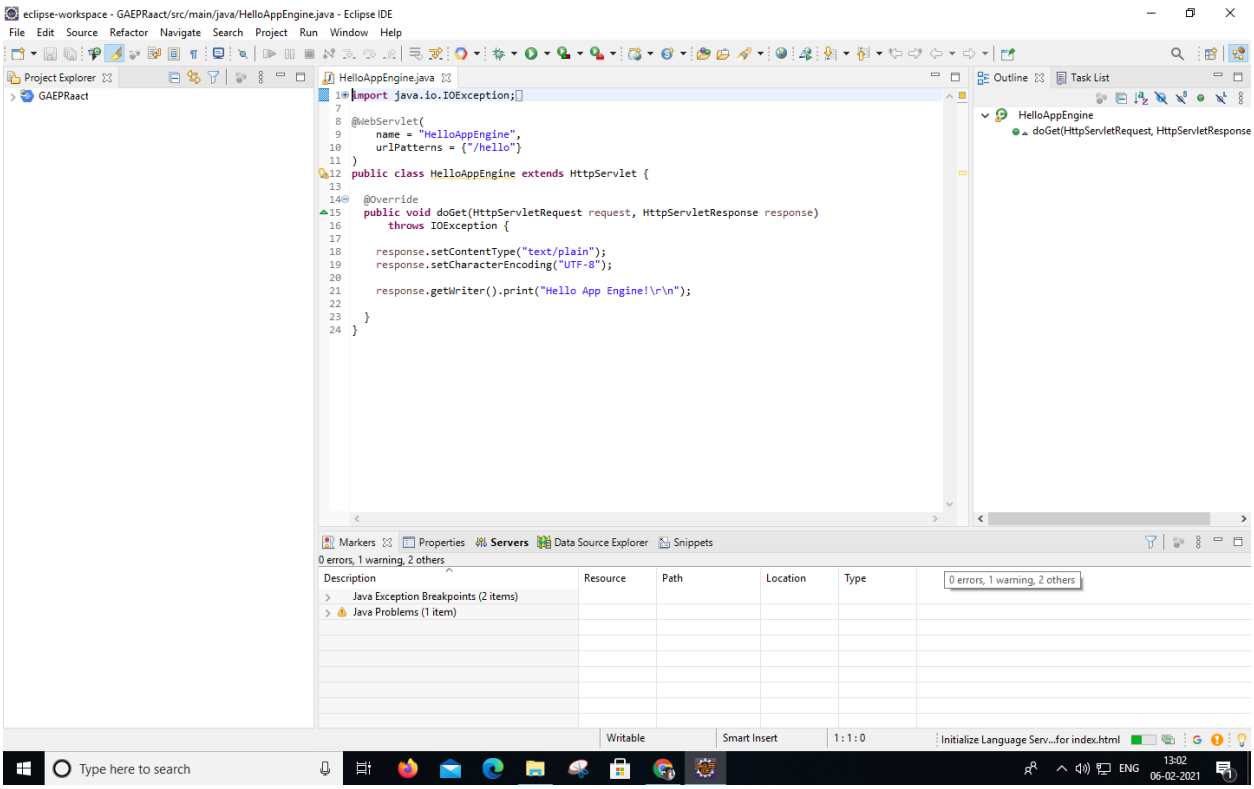


In App Engine Standard Project give the project name and click Next


New App Engine Standard Project
App Engine Standard Project
Create a new Eclipse project for App Engine standard environment development.
Project name: GAEPRaact
Use default location
Location: C:\Users\MSCIT\eclipse-workspace\GAEPRaact
Browse...
Java version: Java 8, Servlet 3.1
Java package:
App Engine service: default
Create as Maven project
Maven project coordinates
Group ID:
Artifact ID:
Version: 0.1.0-SNAPSHOT
< Back
Next >
Finish
Cancel

Select App engine Api and click Finish


New App Engine Standard Project
Google Cloud Platform Libraries
Additional jars for applications using Google Cloud Platform
App Engine Standard Libraries
App Engine API
Google Cloud Endpoints
Objectify
Cloud Client Libraries for Java
BigQuery API
BigQuery Data Transfer API
Cloud Asset API
Cloud Auto ML API
Cloud Container Analysis API
Cloud Data Loss Prevention
Cloud Datastore
Cloud DNS
Cloud Firestore
Cloud KMS
Cloud Natural Language
Cloud OS Login
Cloud Pub/Sub
Cloud Redis
Cloud Resource Manager
Cloud Scheduler
Cloud Security Scanner
Cloud Spanner
Cloud Speech
Cloud Storage
Cloud Talent Solution
Cloud Tasks
Cloud Translation
Cloud Video Intelligence
Cloud Vision
Dialogflow
IoT Core
Kubernetes
Phishing Protection
reCAPTCHA Enterprise
< Back
Next >
Finish
Cancel

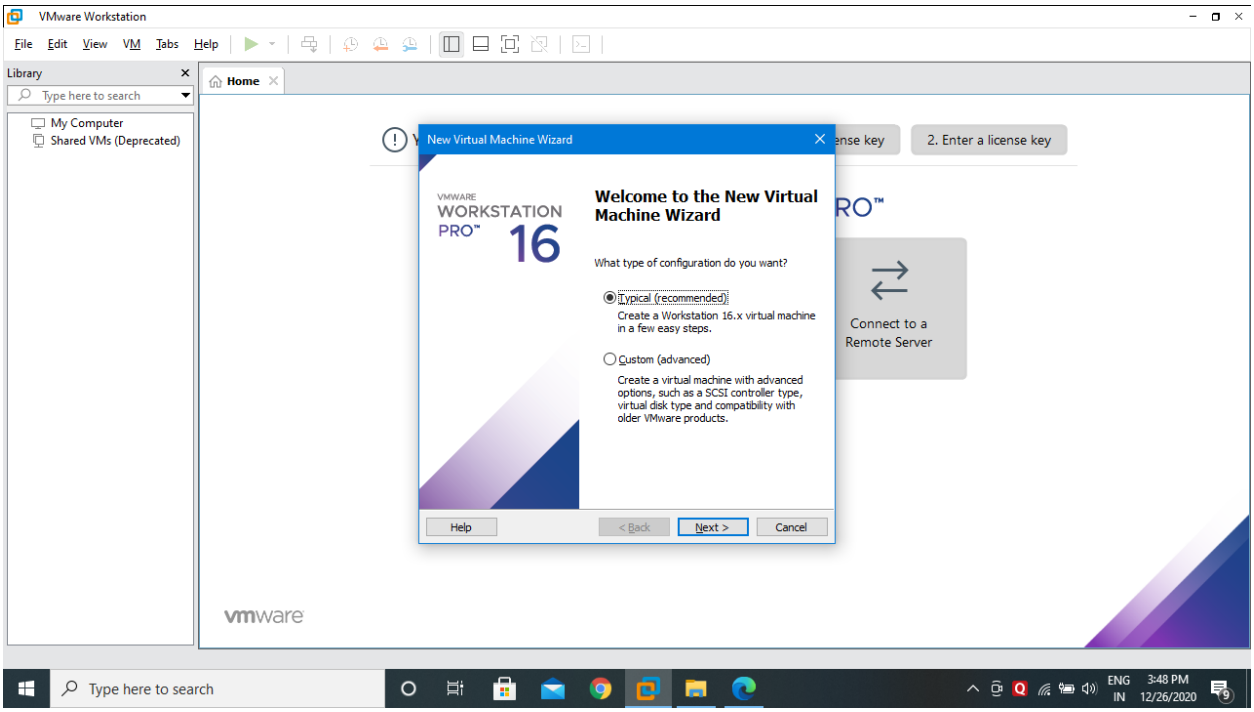

eclipse-workspace - GAEPRaact/src/main/java/HelloAppEngine.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer
GAEPRaact
HelloAppEngine.java
import java.io.IOException;
@WebServlet(
name = "HelloAppEngine",
urlPatterns = {"/hello"}
)
public class HelloAppEngine extends HttpServlet {
@Override
public void doGet(HttpServletRequest request, HttpServletResponse response)
throws IOException {
response.setContentType("text/plain");
response.setCharacterEncoding("UTF-8");
response.getWriter().print("Hello App Engine!\r\n");
}
}
Outline
Task List
HelloAppEngine
doGet(HttpServletRequest, HttpServletResponse
Markers
Properties
Servers
Data Source Explorer
Snippets
0 errors, 1 warning, 2 others
Description
Resource
Path
Location
Type
Java Exception Breakpoints (2 items)
Java Problems (1 item)
Writable
Smart Insert
1 : 1 : 0
Initialize Language Serv...for index.html
Type here to search
ENG
13:02
06-02-2021

Practical No. 5

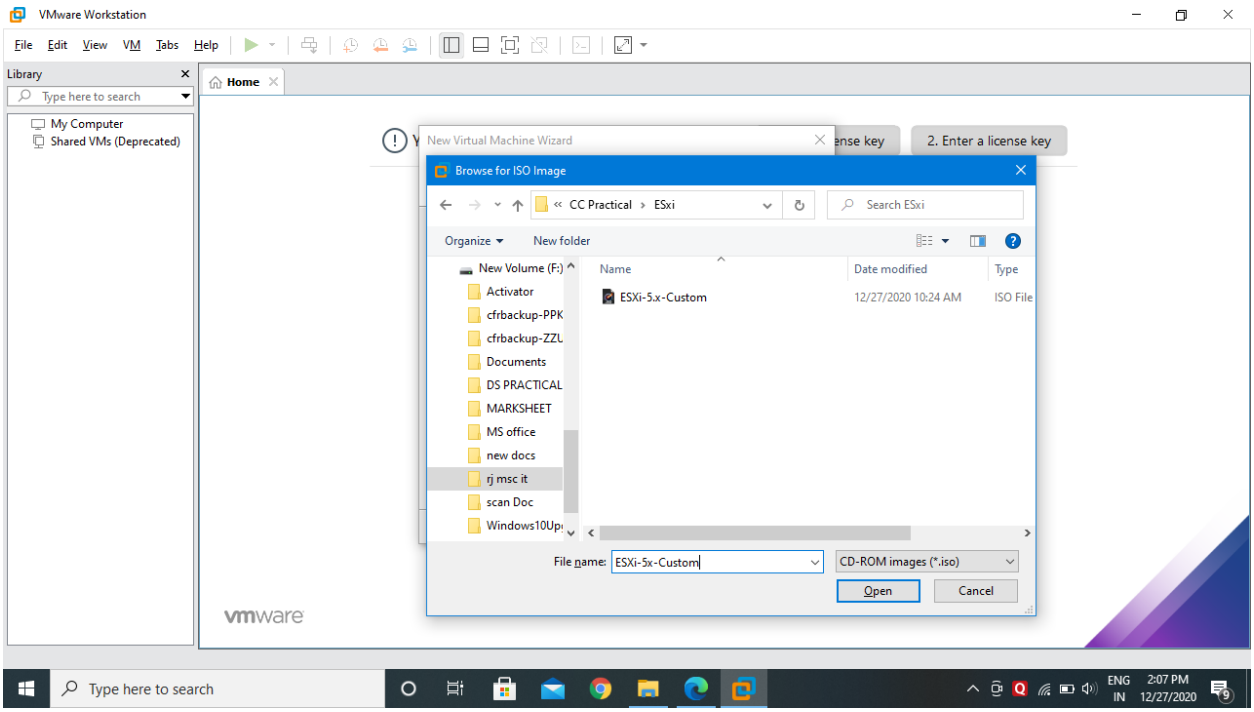
Implement ESXi Server

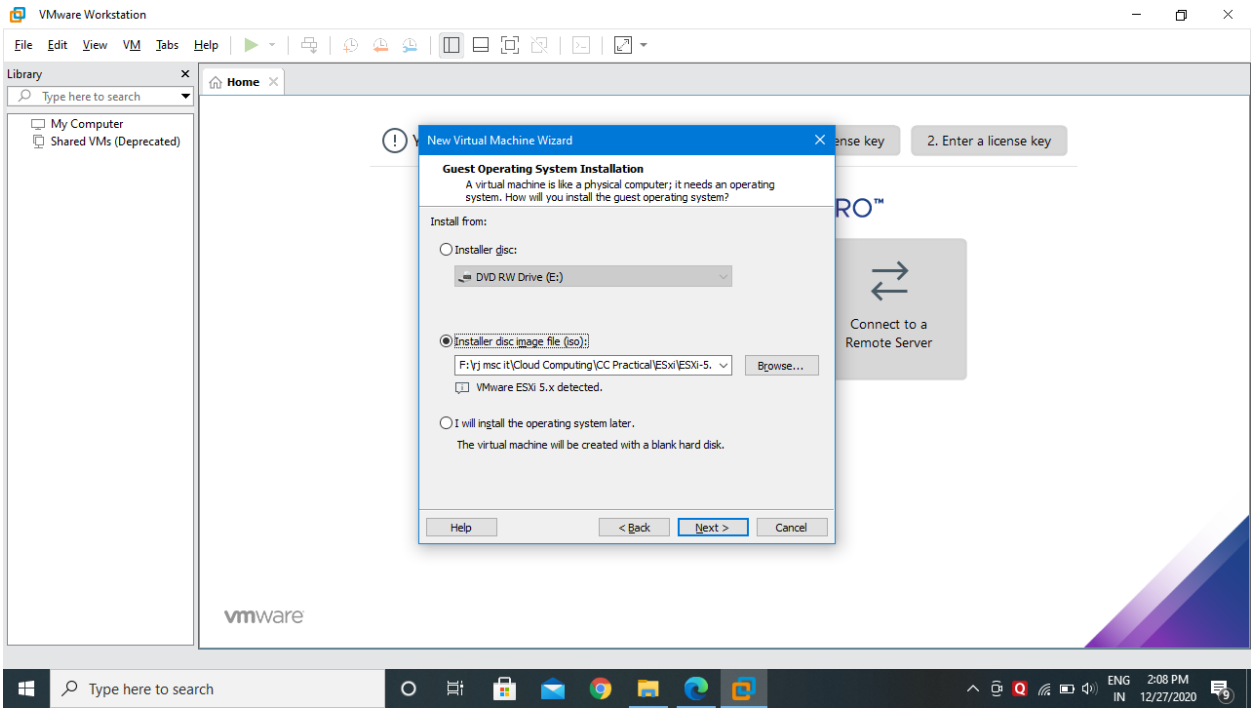
Open VMWare Workstation and select Create new Virtual machine

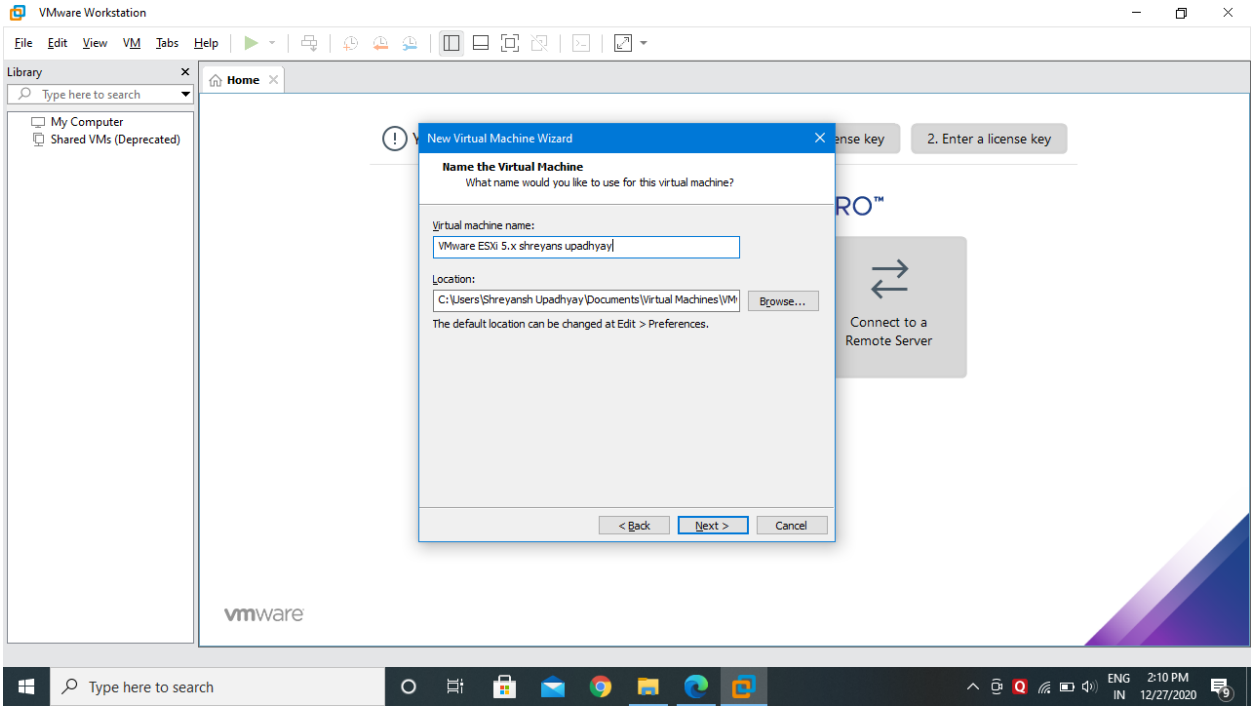
Select Typical and click Next

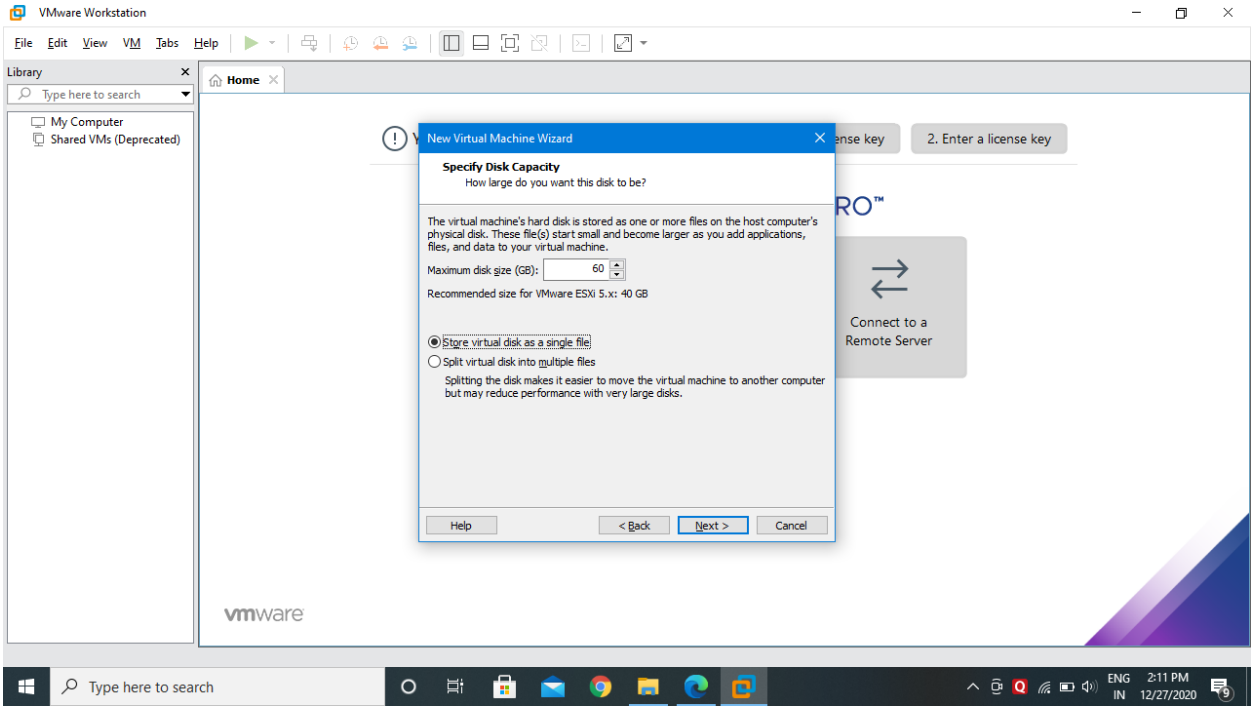


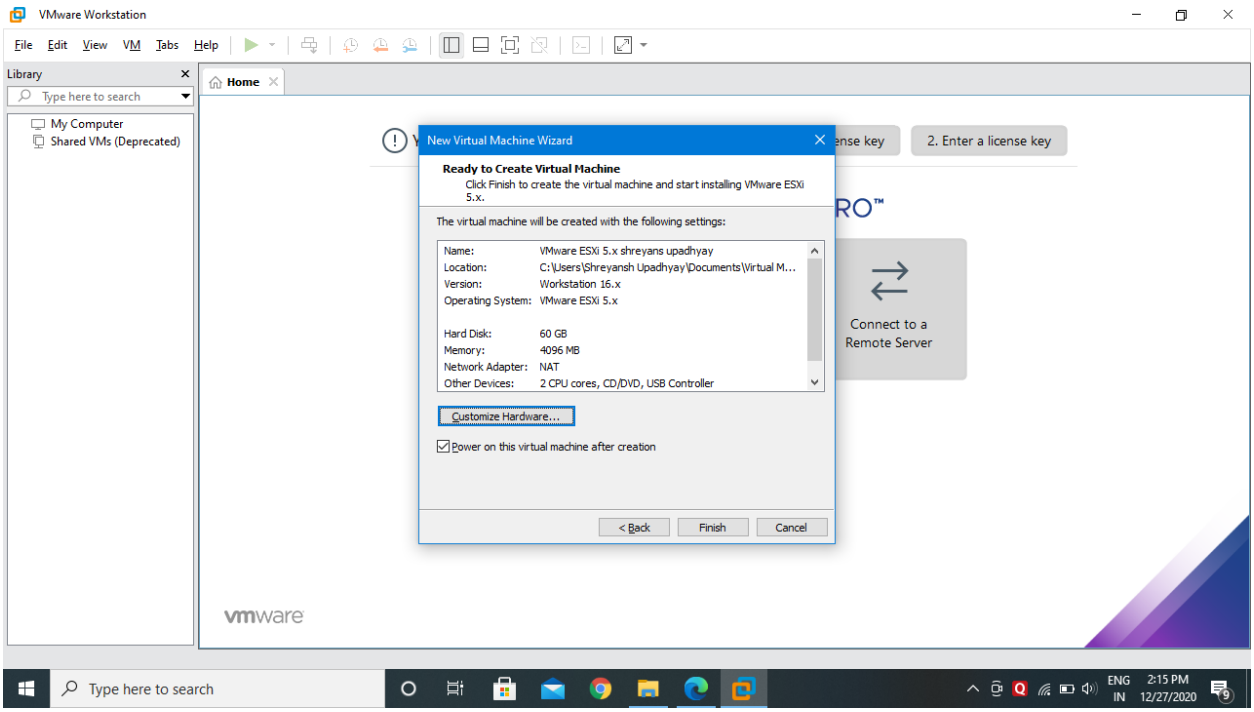
Select Installer disc_image file(ISO). Click Browse -ESXi-5.xCustom.iso Iso

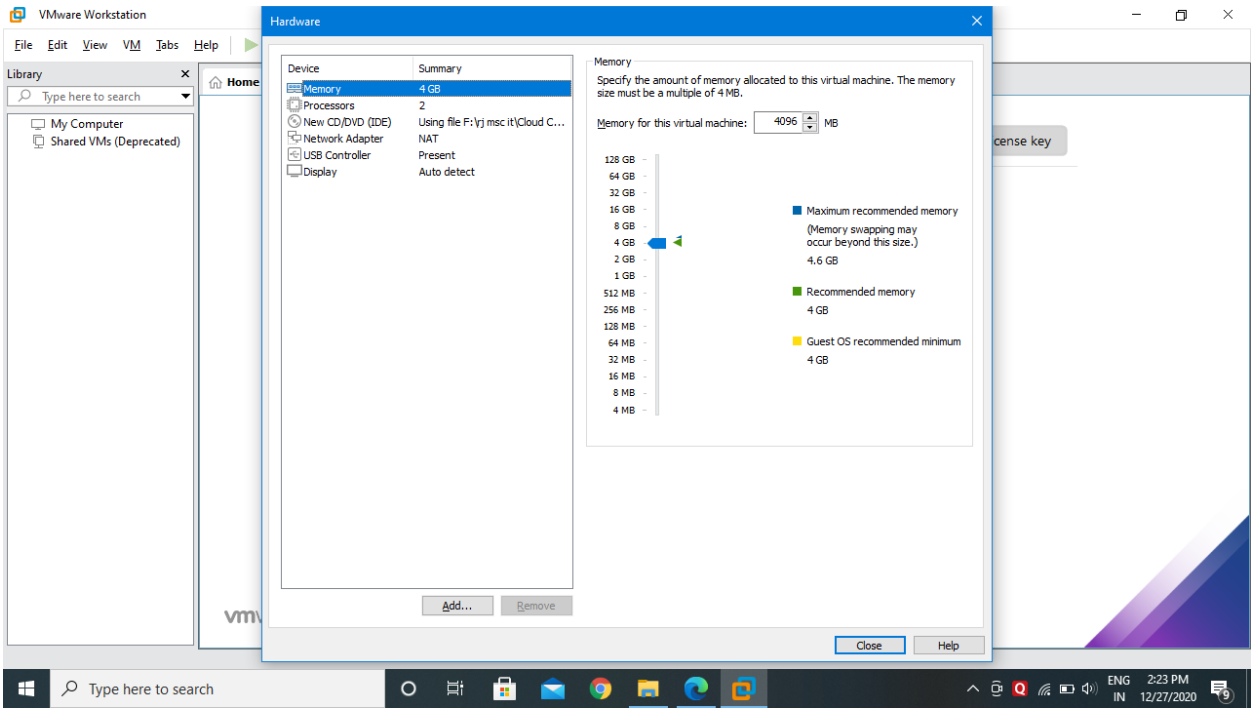


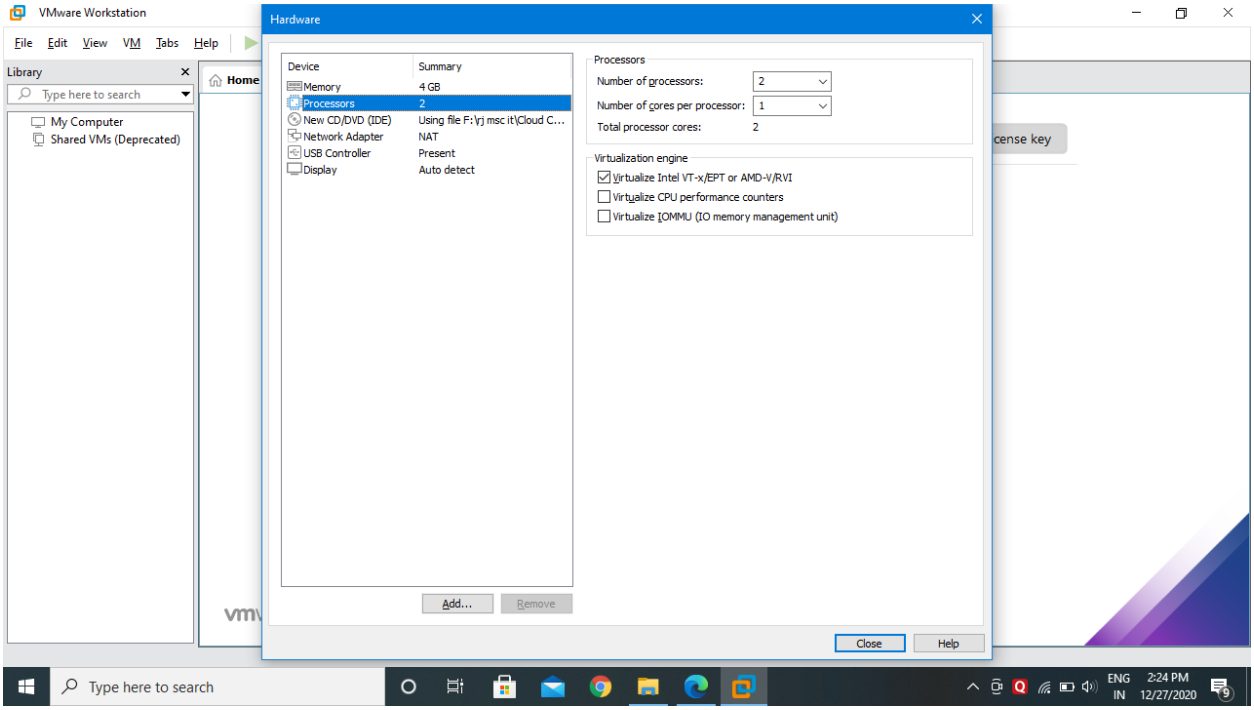


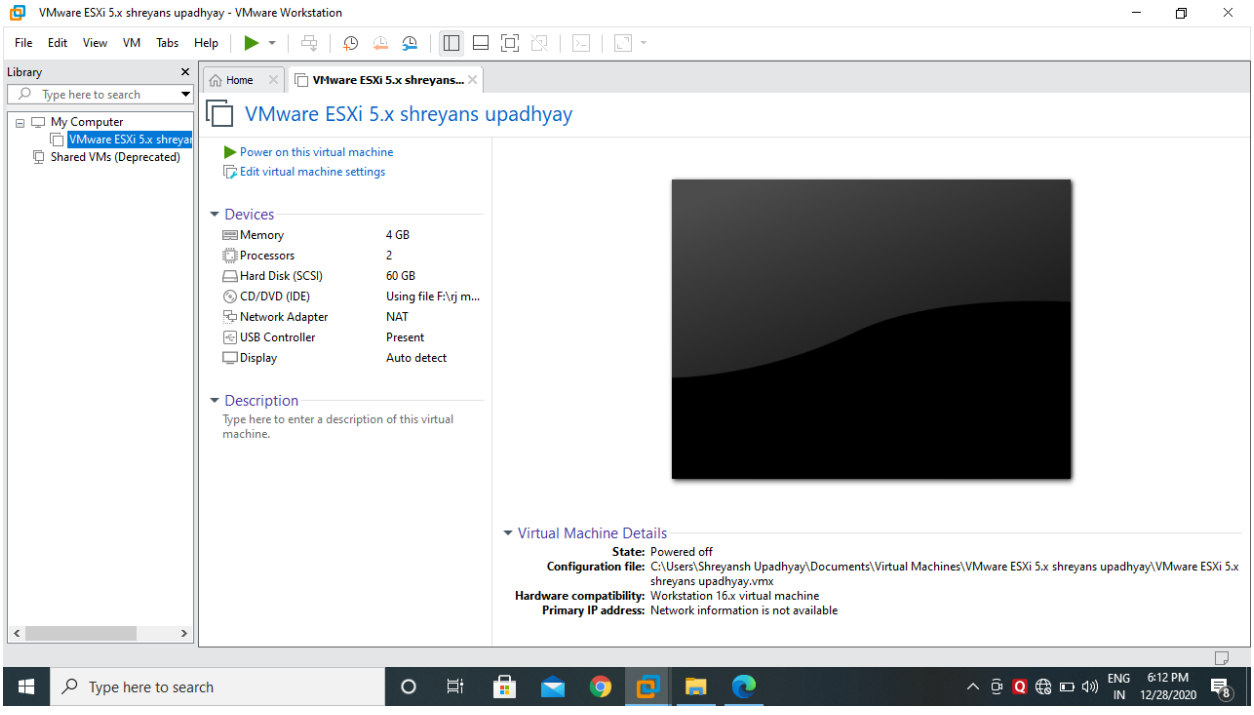

VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Shared VMs (Deprecated)
Home
New Virtual Machine Wizard
Name the Virtual Machine
What name would you like to use for this virtual machine?
Virtual machine name:
VMware ESXi 5.x shreyans upadhyay
Location:
C:\Users\Shreyansh Upadhyay\Documents\Virtual Machines\VM
Browse...
The default location can be changed at Edit > Preferences.
< Back
Next >
Cancel
2. Enter a license key
Connect to a Remote Server
vmware
Type here to search
ENG IN
2:10 PM 12/27/2020

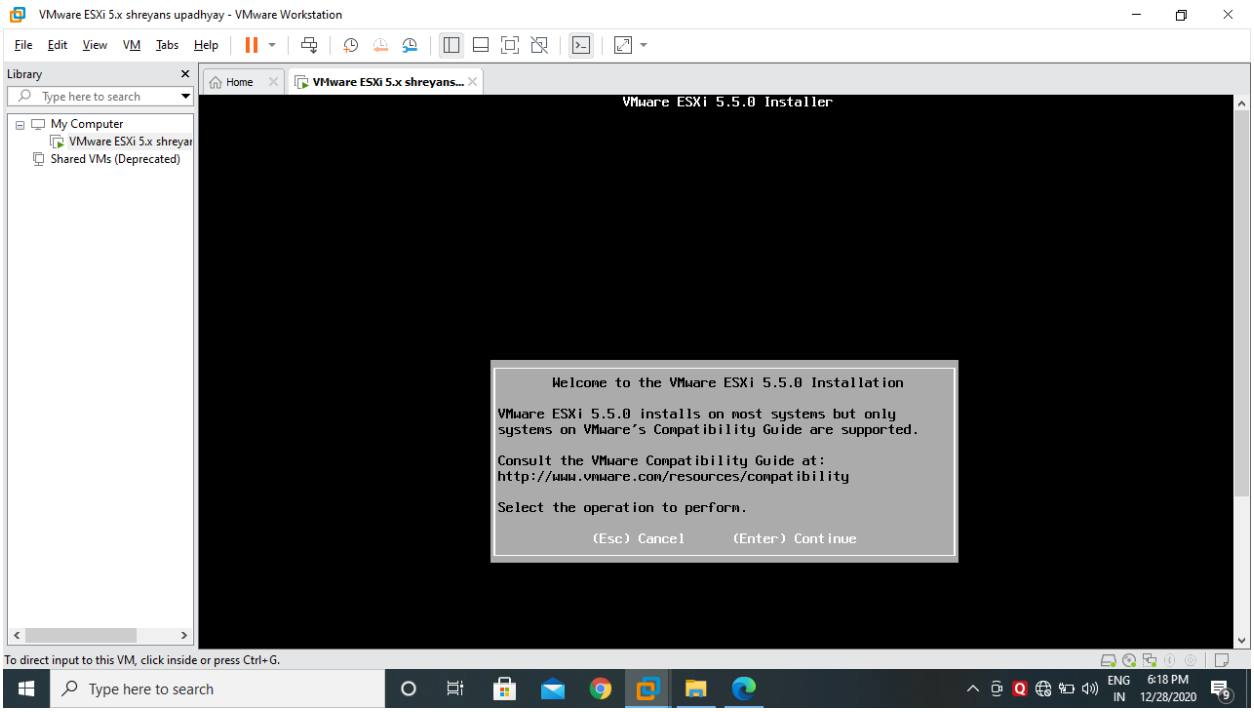

VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Shared VMs (Deprecated)
Home
New Virtual Machine Wizard
Specify Disk Capacity
How large do you want this disk to be?
The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.
Maximum disk size (GB): 60
Recommended size for VMware ESXi 5.x: 40 GB
Store virtual disk as a single file
Split virtual disk into multiple files
Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.
Help
< Back
Next >
Cancel
2. Enter a license key
Connect to a Remote Server
vmware
Type here to search
ENG IN
2:11 PM 12/27/2020

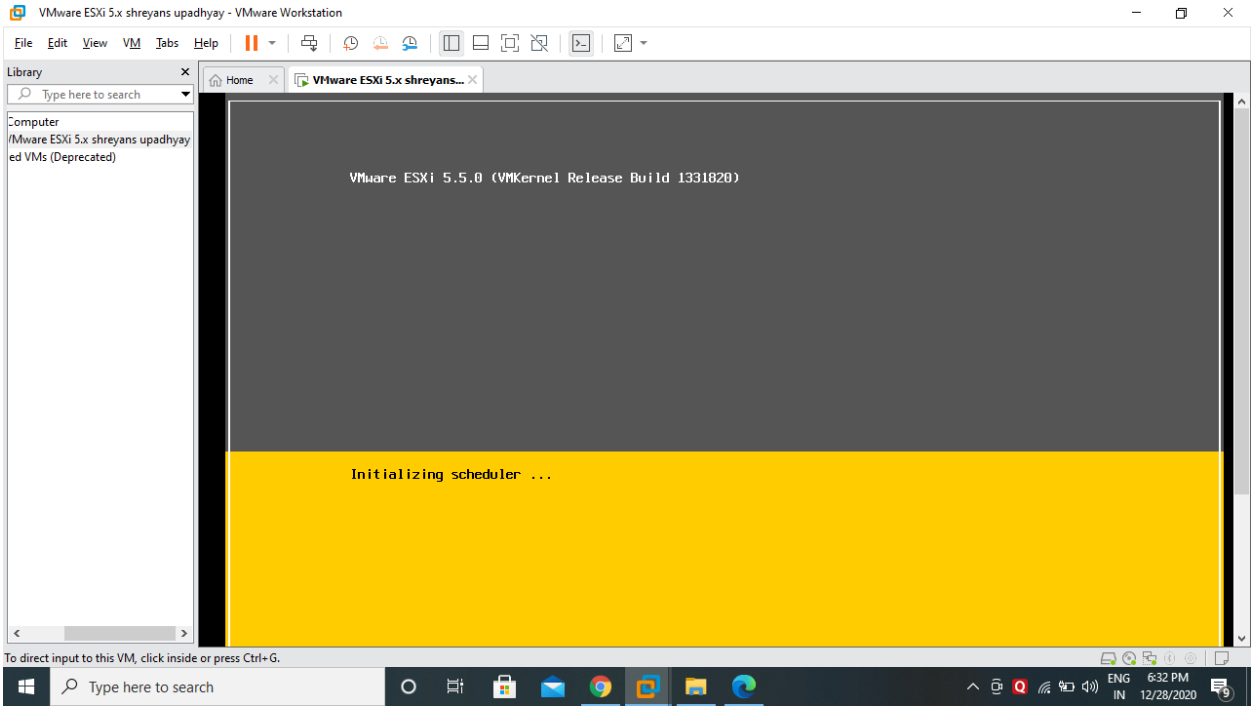

VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Shared VMs (Deprecated)
Home
New Virtual Machine Wizard
Ready to Create Virtual Machine
Click Finish to create the virtual machine and start installing VMware ESXi 5.x.
The virtual machine will be created with the following settings:
Name: VMware ESXi 5.x shreyans upadhyay
Location: C:\Users\Shreyansh Upadhyay\Documents\Virtual M...
Version: Workstation 16.x
Operating System: VMware ESXi 5.x
Hard Disk: 60 GB
Memory: 4096 MB
Network Adapter: NAT
Other Devices: 2 CPU cores, CD/DVD, USB Controller
Customize Hardware...
Power on this virtual machine after creation
< Back
Finish
Cancel
2. Enter a license key
Connect to a Remote Server
vmware
Type here to search
ENG IN
2:15 PM 12/27/2020

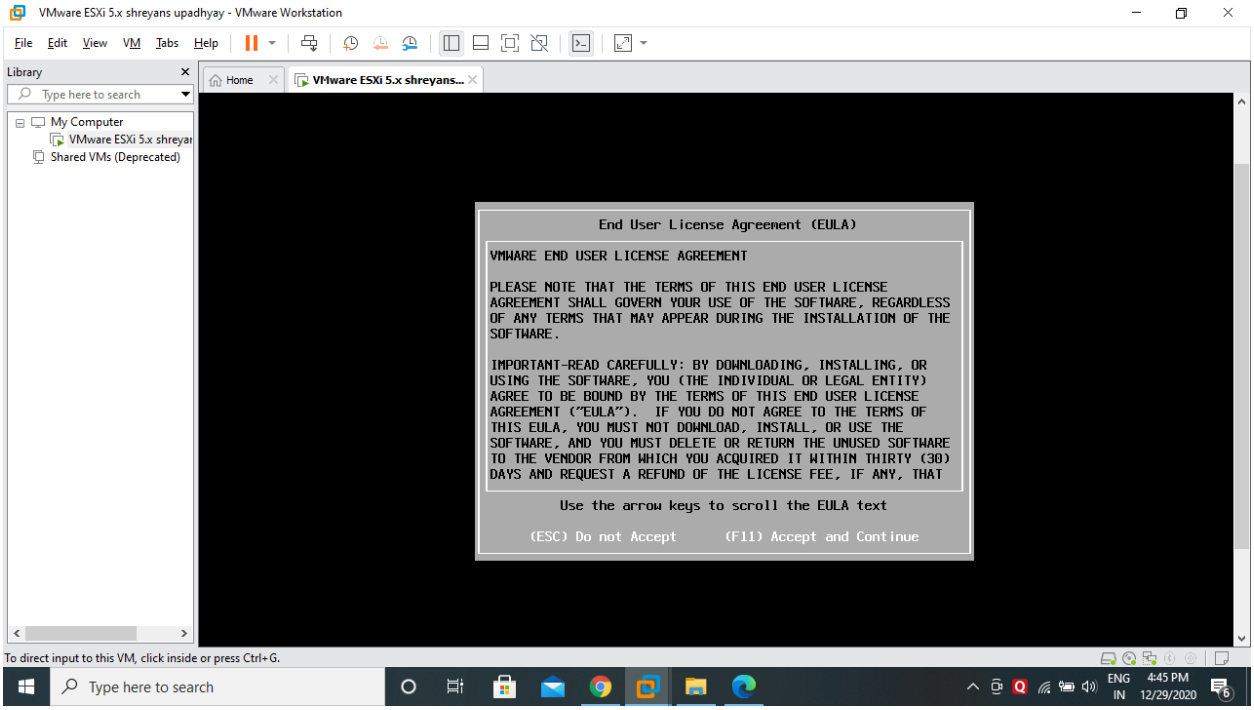

VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Shared VMs (Deprecated)
Home
Hardware
Device Summary
Memory 4 GB
Processors 2
New CD/DVD (IDE) Using file F:\rj msc it\Cloud C...
Network Adapter NAT
USB Controller Present
Display Auto detect
Add... Remove
Memory
Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.
Memory for this virtual machine: 4096 MB
128 GB
64 GB
32 GB
16 GB
8 GB
4 GB
2 GB
1 GB
512 MB
256 MB
128 MB
64 MB
32 MB
16 MB
8 MB
4 MB
Maximum recommended memory
(Memory swapping may occur beyond this size.)
4.6 GB
Recommended memory
4 GB
Guest OS recommended minimum
4 GB
Close
Help
Type here to search
ENG IN
2:23 PM 12/27/2020

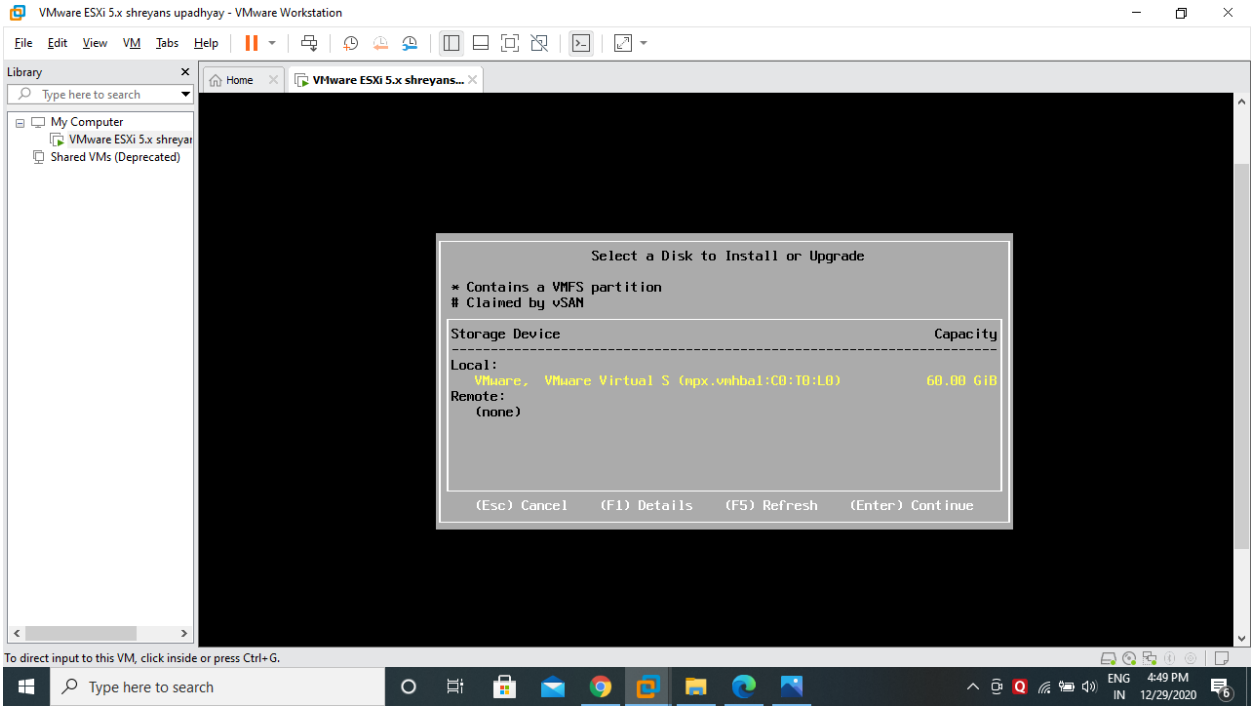

VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
Shared VMs (Deprecated)
Home
Hardware
Device
Summary
Memory
4 GB
Processors
2
New CD/DVD (IDE)
Using file F:\rj msc it\Cloud C...
Network Adapter
NAT
USB Controller
Present
Display
Auto detect
Add...
Remove
Processors
Number of processors:
2
Number of cores per processor:
1
Total processor cores:
2
Virtualization engine
Virtualize Intel VT-x/EPT or AMD-V/RVI
Virtualize CPU performance counters
Virtualize IOMMU (IO memory management unit)
Close
Help
cense key
Type here to search
ENG
IN
2:24 PM
12/27/2020

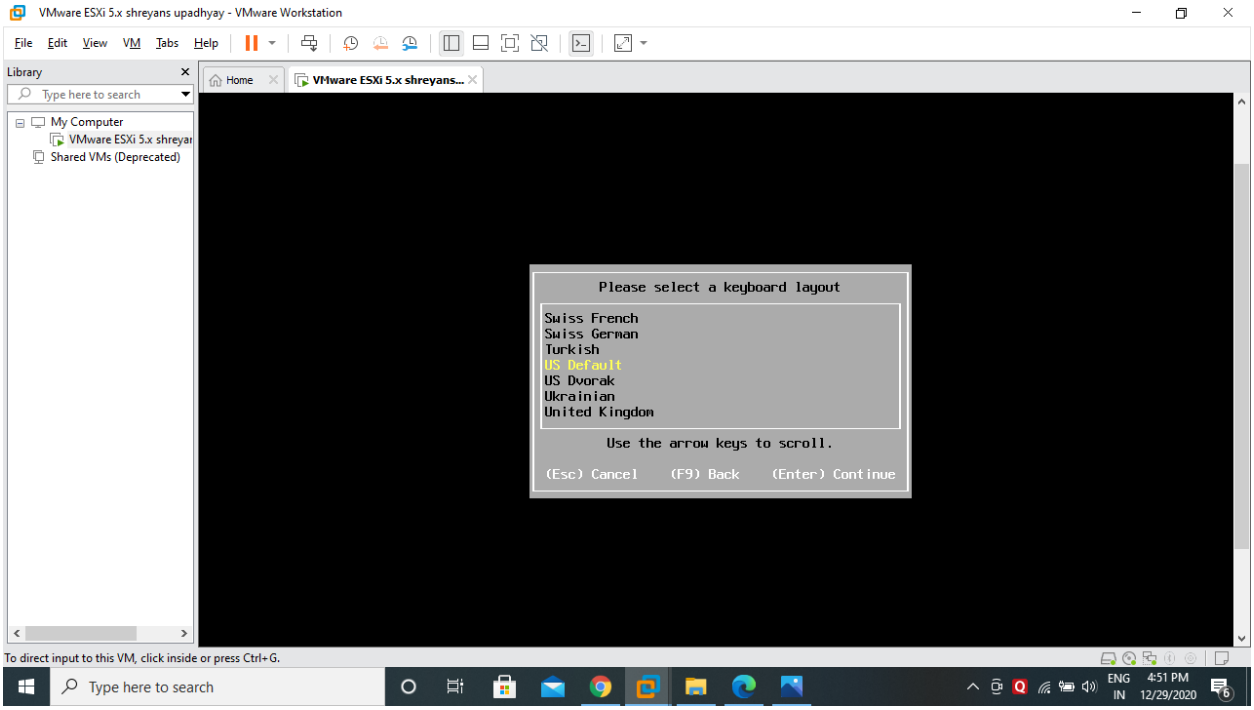

VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
VMware ESXi 5.x shreyans upadhyay
Power on this virtual machine
Edit virtual machine settings
Devices
Memory
4 GB
Processors
2
Hard Disk (SCSI)
60 GB
CD/DVD (IDE)
Using file F:\rj m...
Network Adapter
NAT
USB Controller
Present
Display
Auto detect
Description
Type here to enter a description of this virtual machine.
Virtual Machine Details
State: Powered off
Configuration file: C:\Users\Shreyansh Upadhyay\Documents\Virtual Machines\VMware ESXi 5.x shreyans upadhyay\VMware ESXi 5.x shreyans upadhyay.vmx
Hardware compatibility: Workstation 16.x virtual machine
Primary IP address: Network information is not available
Type here to search
ENG
IN
6:12 PM
12/28/2020

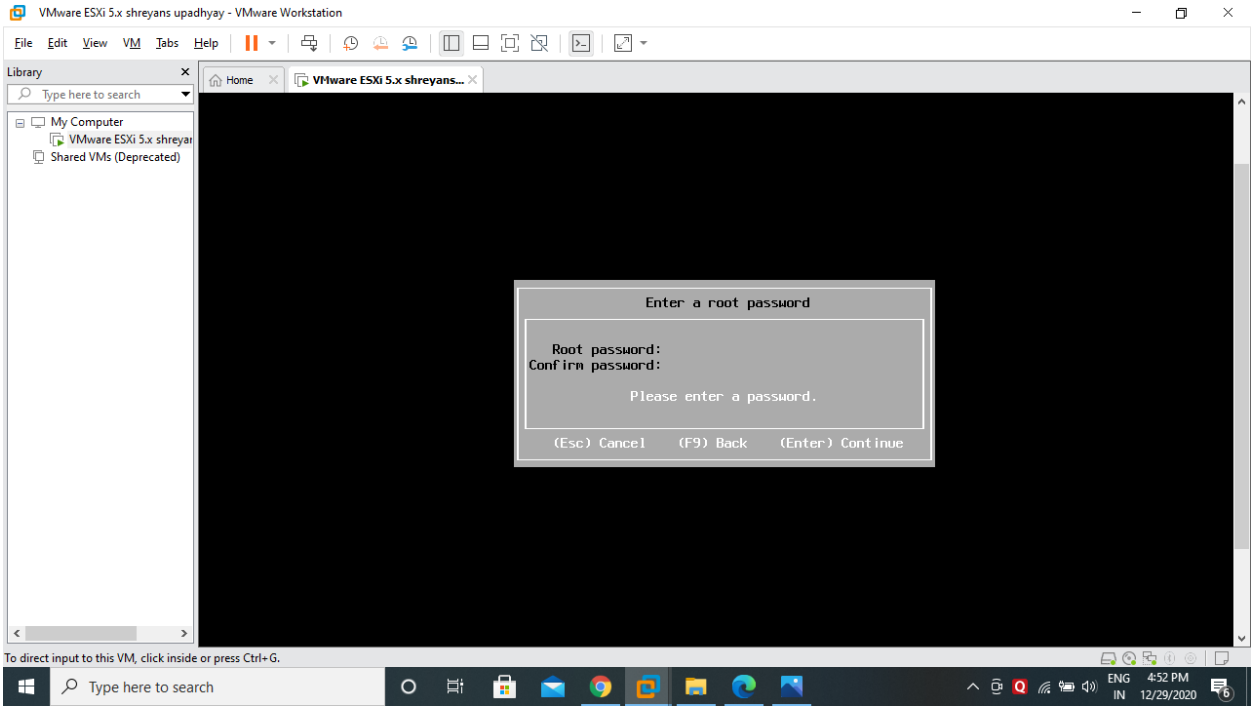

VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
VMware ESXi 5.5.0 Installer
Welcome to the VMware ESXi 5.5.0 Installation
VMware ESXi 5.5.0 installs on most systems but only
systems on VMware's Compatibility Guide are supported.
Consult the VMware Compatibility Guide at:
http://www.vmware.com/resources/compatibility
Select the operation to perform.
(Esc) Cancel
(Enter) Continue
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
6:18 PM
12/28/2020


VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
Computer
/Mware ESXi 5.x shreyans upadhyay
ed VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
VMware ESXi 5.5.0 (VMKernel Release Build 1331820)
Initializing scheduler ...
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
6:32 PM
12/28/2020

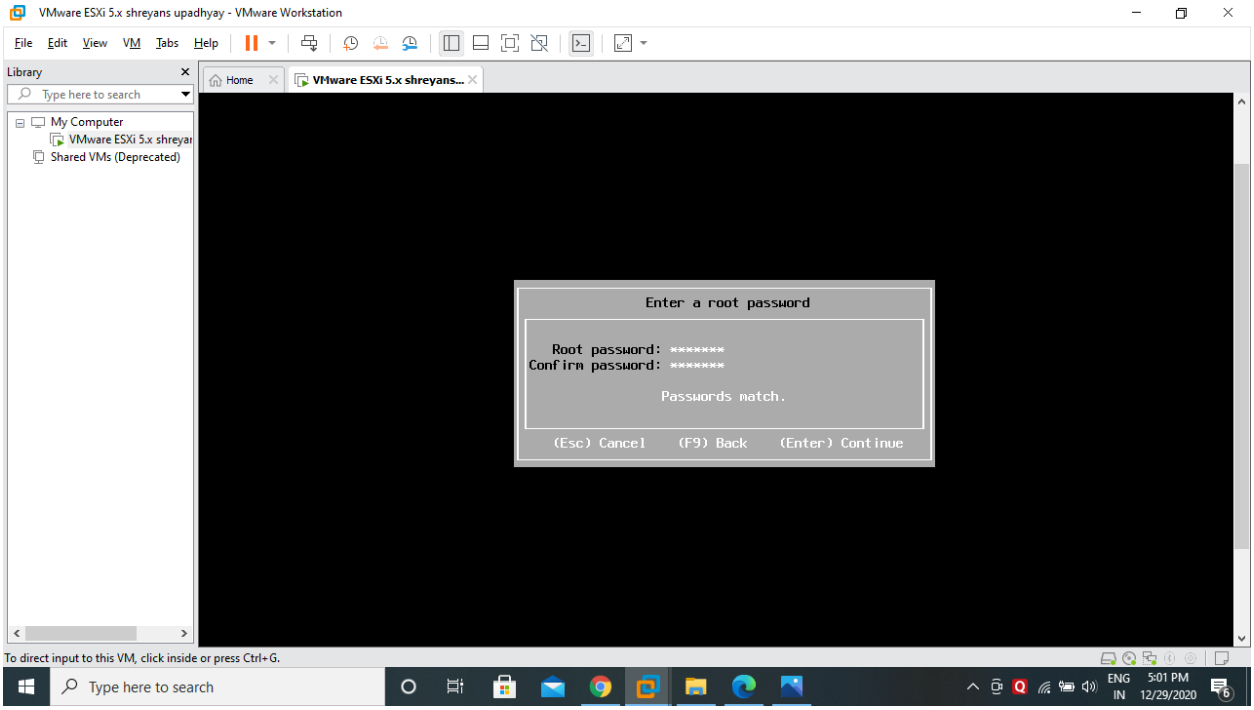

VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
End User License Agreement (EULA)
VMWARE END USER LICENSE AGREEMENT
PLEASE NOTE THAT THE TERMS OF THIS END USER LICENSE AGREEMENT SHALL GOVERN YOUR USE OF THE SOFTWARE, REGARDLESS OF ANY TERMS THAT MAY APPEAR DURING THE INSTALLATION OF THE SOFTWARE.
IMPORTANT-READ CAREFULLY: BY DOWNLOADING, INSTALLING, OR USING THE SOFTWARE, YOU (THE INDIVIDUAL OR LEGAL ENTITY) AGREE TO BE BOUND BY THE TERMS OF THIS END USER LICENSE AGREEMENT ("EULA"). IF YOU DO NOT AGREE TO THE TERMS OF THIS EULA, YOU MUST NOT DOWNLOAD, INSTALL, OR USE THE SOFTWARE, AND YOU MUST DELETE OR RETURN THE UNUSED SOFTWARE TO THE VENDOR FROM WHICH YOU ACQUIRED IT WITHIN THIRTY (30) DAYS AND REQUEST A REFUND OF THE LICENSE FEE, IF ANY, THAT
Use the arrow keys to scroll the EULA text
(ESC) Do not Accept (F11) Accept and Continue
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG IN 4:45 PM 12/29/2020

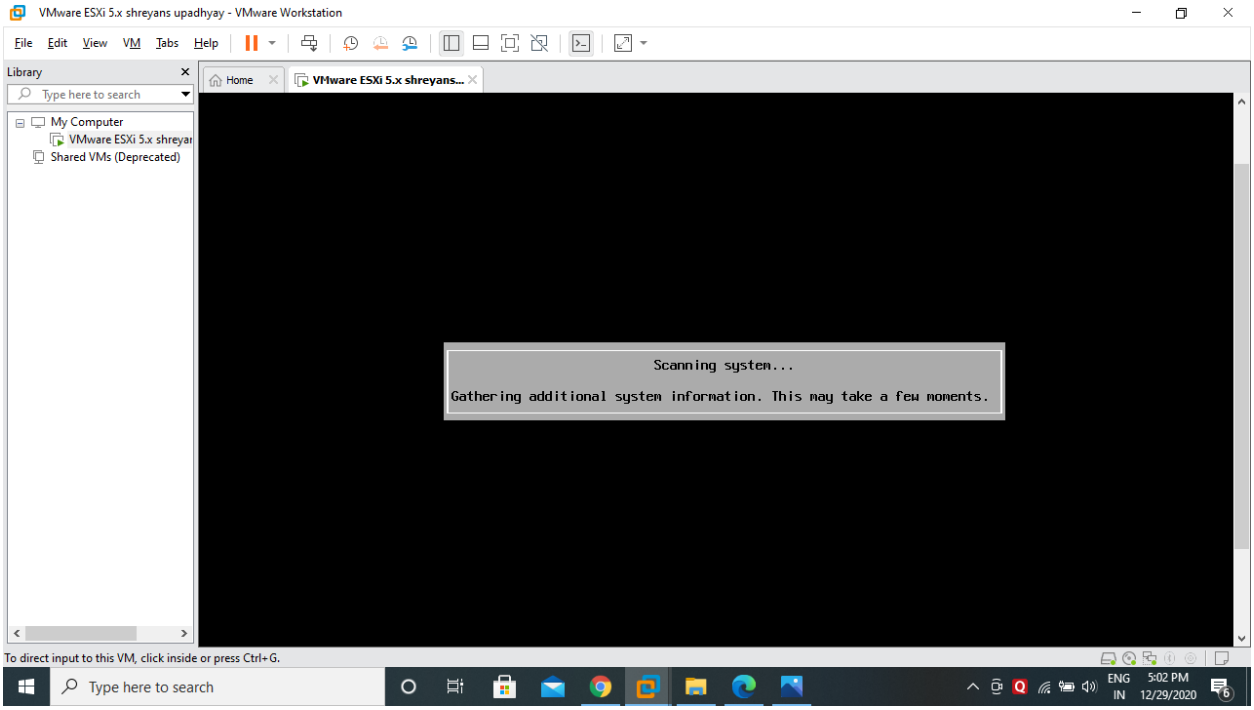

VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
Select a Disk to Install or Upgrade
* Contains a VMFS partition
# Claimed by vSAN
Storage Device Capacity
Local:
VMware, VMware Virtual S (mpx.vmhba1:C0:T0:L0) 60.00 GiB
Remote:
(none)
(Esc) Cancel (F1) Details (F5) Refresh (Enter) Continue
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG IN 4:49 PM 12/29/2020


VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
Please select a keyboard layout
Swiss French
Swiss German
Turkish
US Default
US Dvorak
Ukrainian
United Kingdom
Use the arrow keys to scroll.
(Esc) Cancel (F9) Back (Enter) Continue
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
4:51 PM
12/29/2020

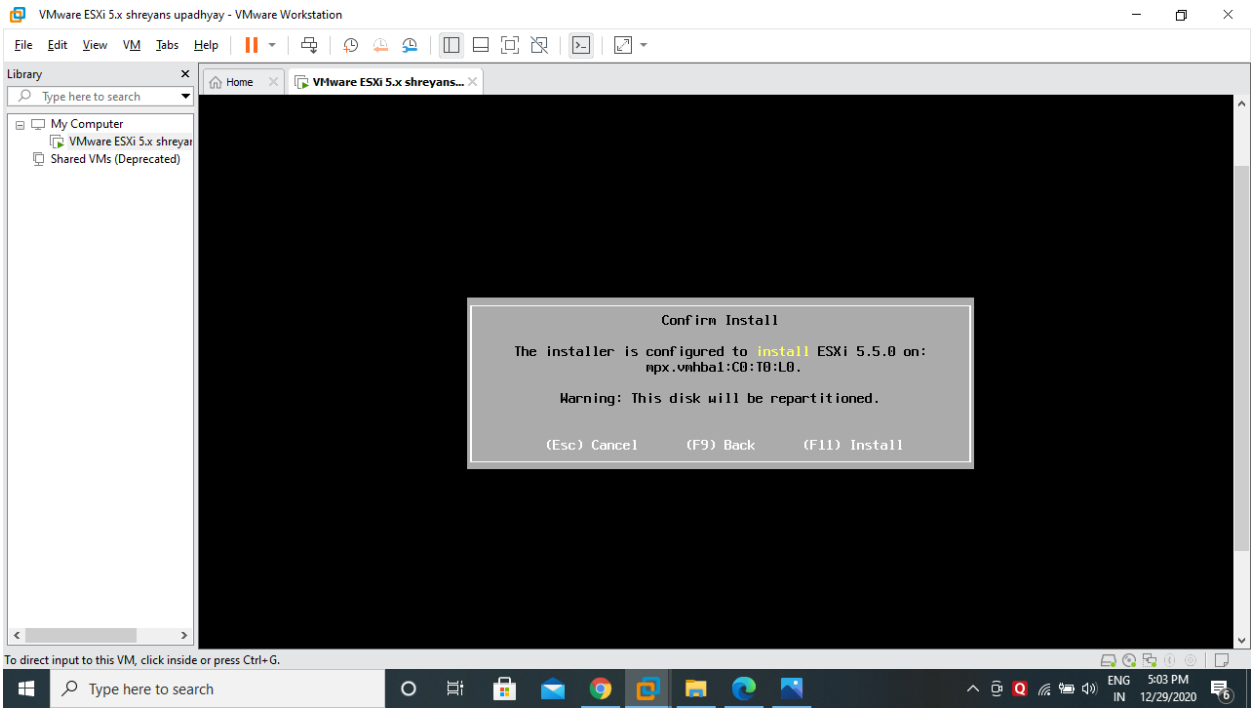

VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
Enter a root password
Root password:
Confirm password:
Please enter a password.
(Esc) Cancel (F9) Back (Enter) Continue
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
4:52 PM
12/29/2020

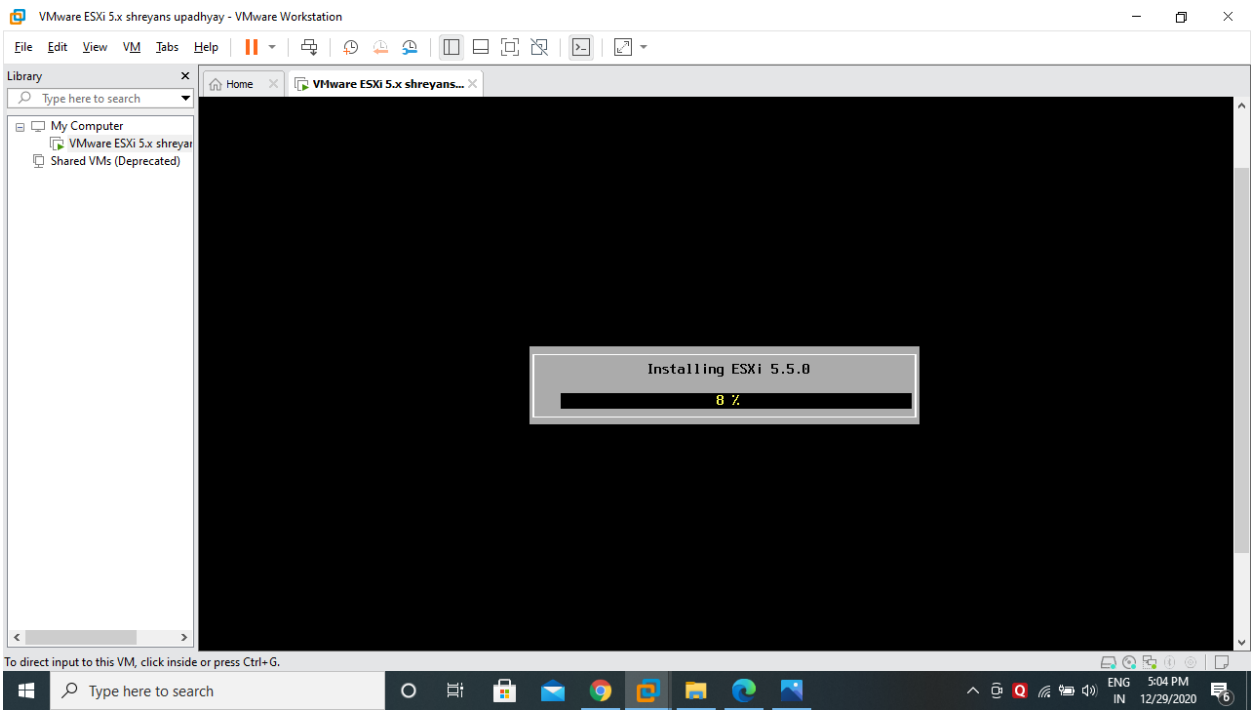
Password rjit123

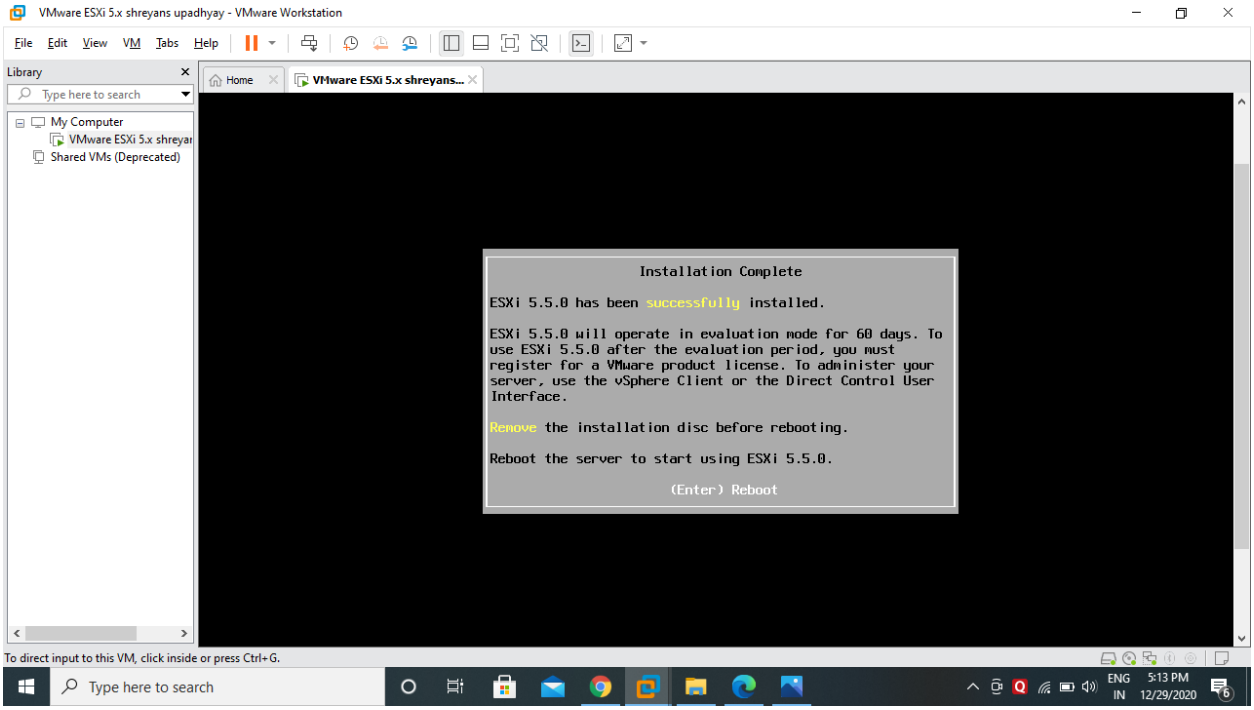


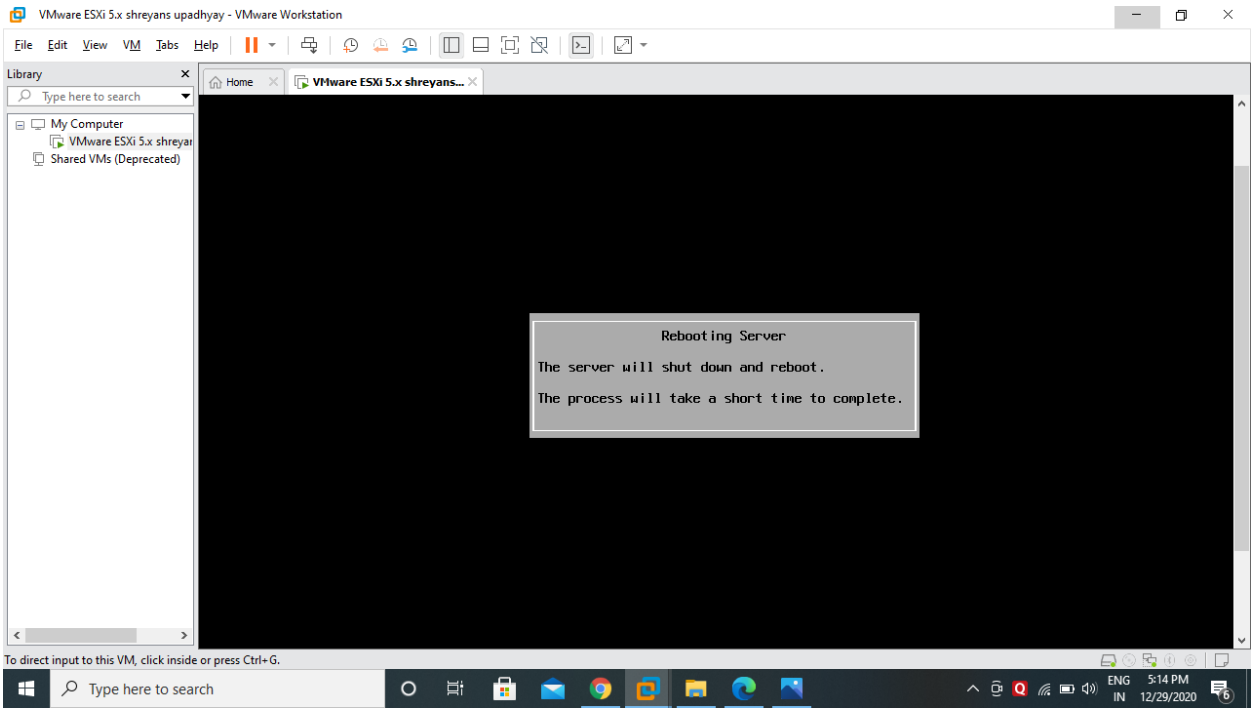


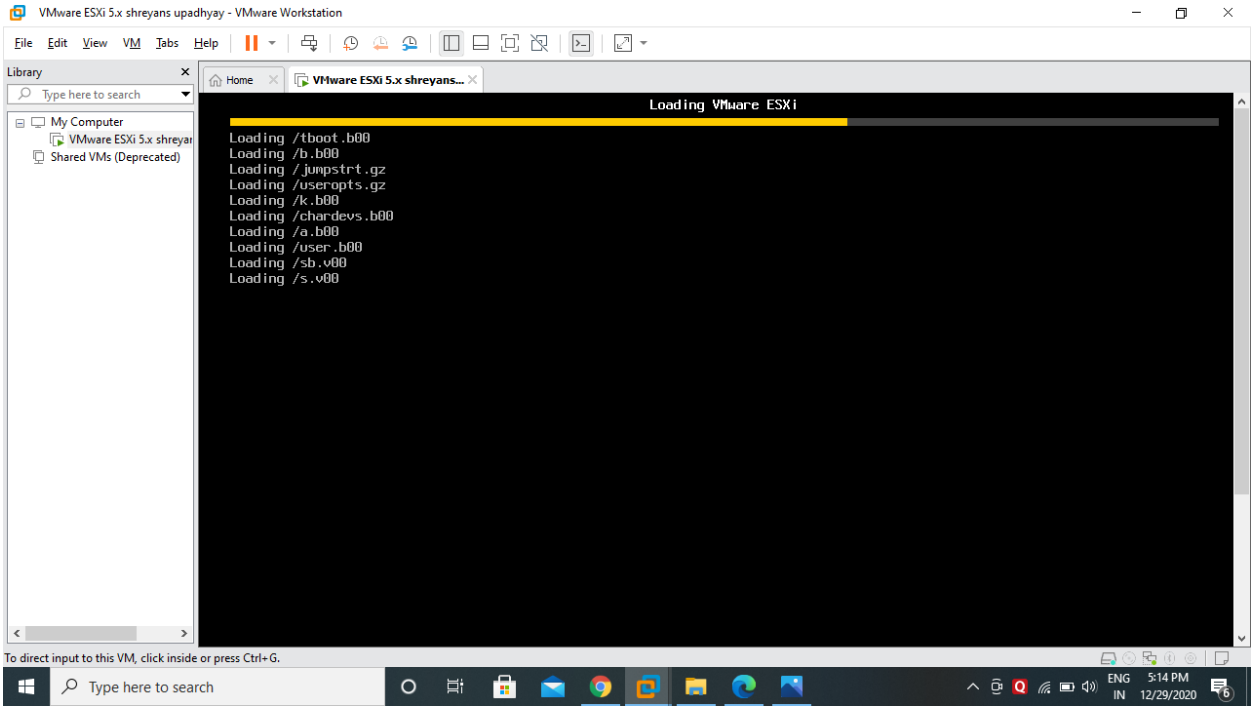
Click Install

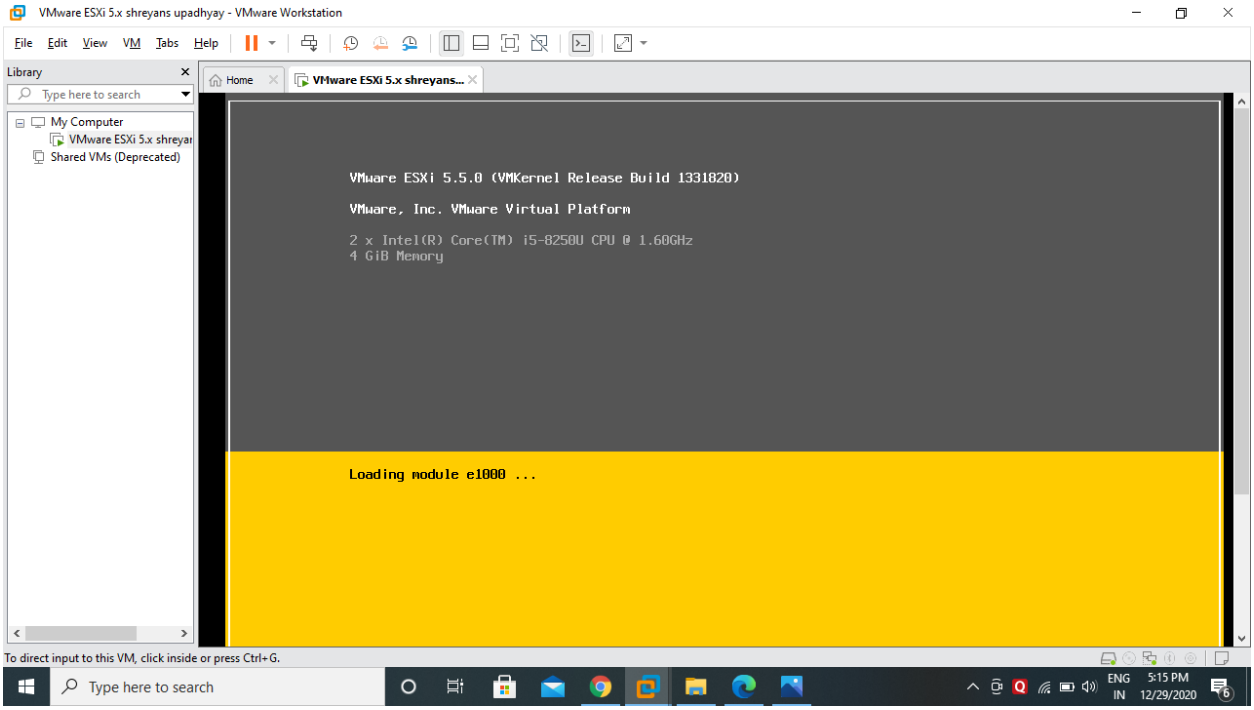


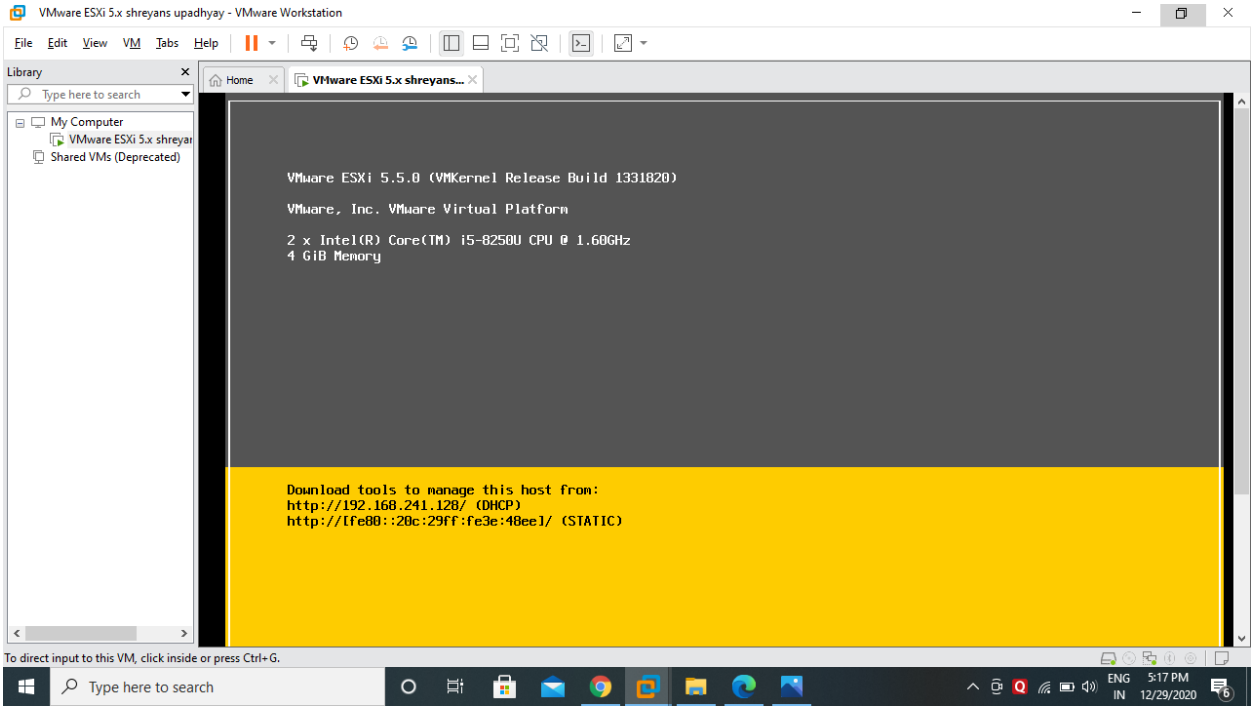


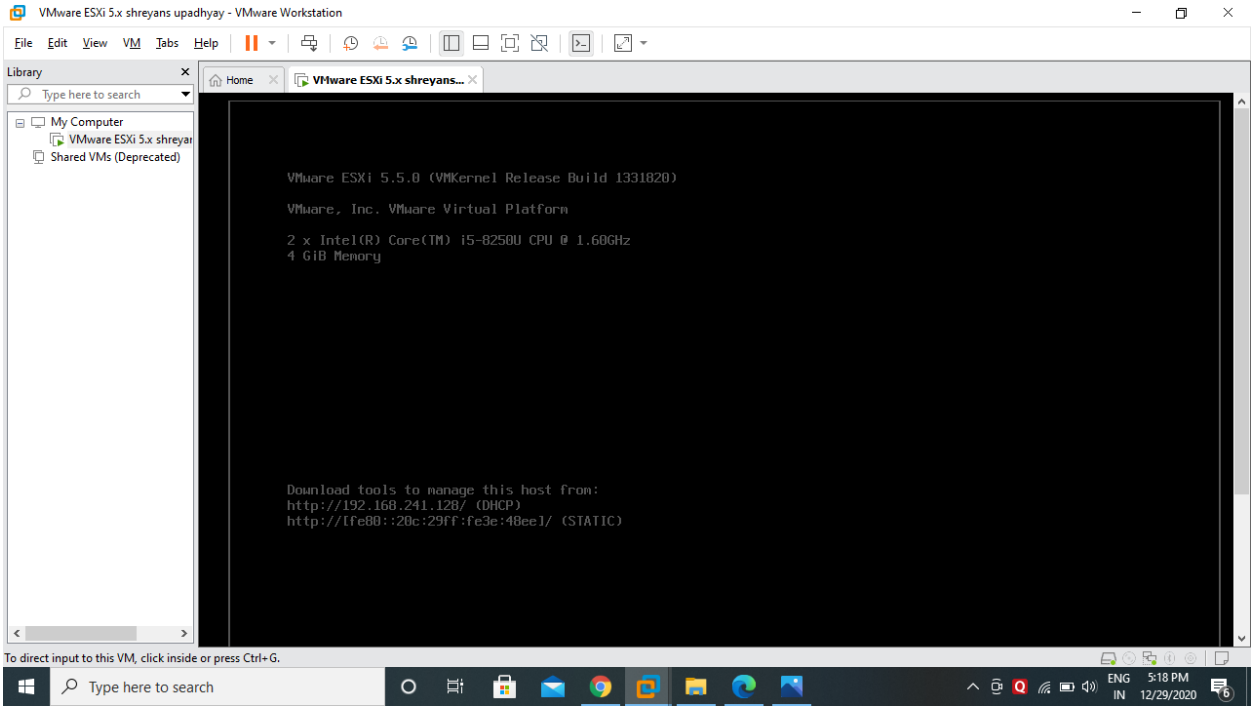

VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
Installation Complete
ESXi 5.5.0 has been successfully installed.
ESXi 5.5.0 will operate in evaluation mode for 60 days. To use ESXi 5.5.0 after the evaluation period, you must register for a VMware product license. To administer your server, use the vSphere Client or the Direct Control User Interface.
Remove the installation disc before rebooting.
Reboot the server to start using ESXi 5.5.0.
(Enter) Reboot
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
5:13 PM
12/29/2020

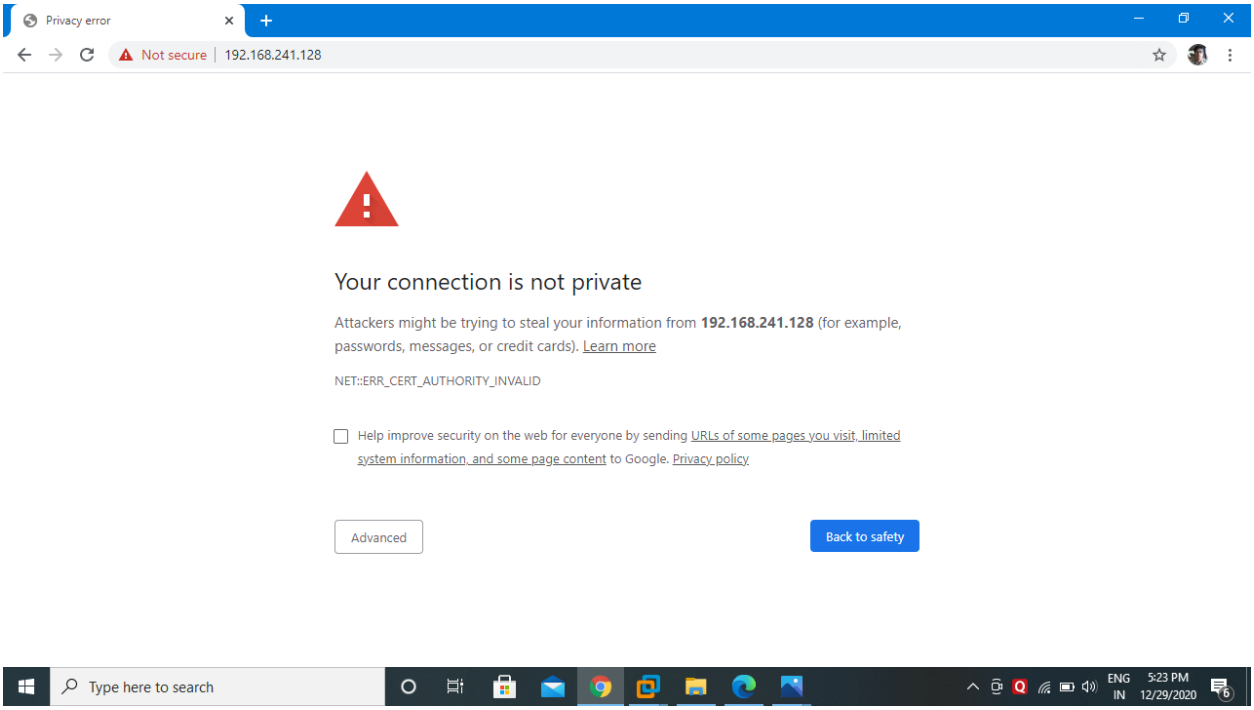

VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
Rebooting Server
The server will shut down and reboot.
The process will take a short time to complete.
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
5:14 PM
12/29/2020

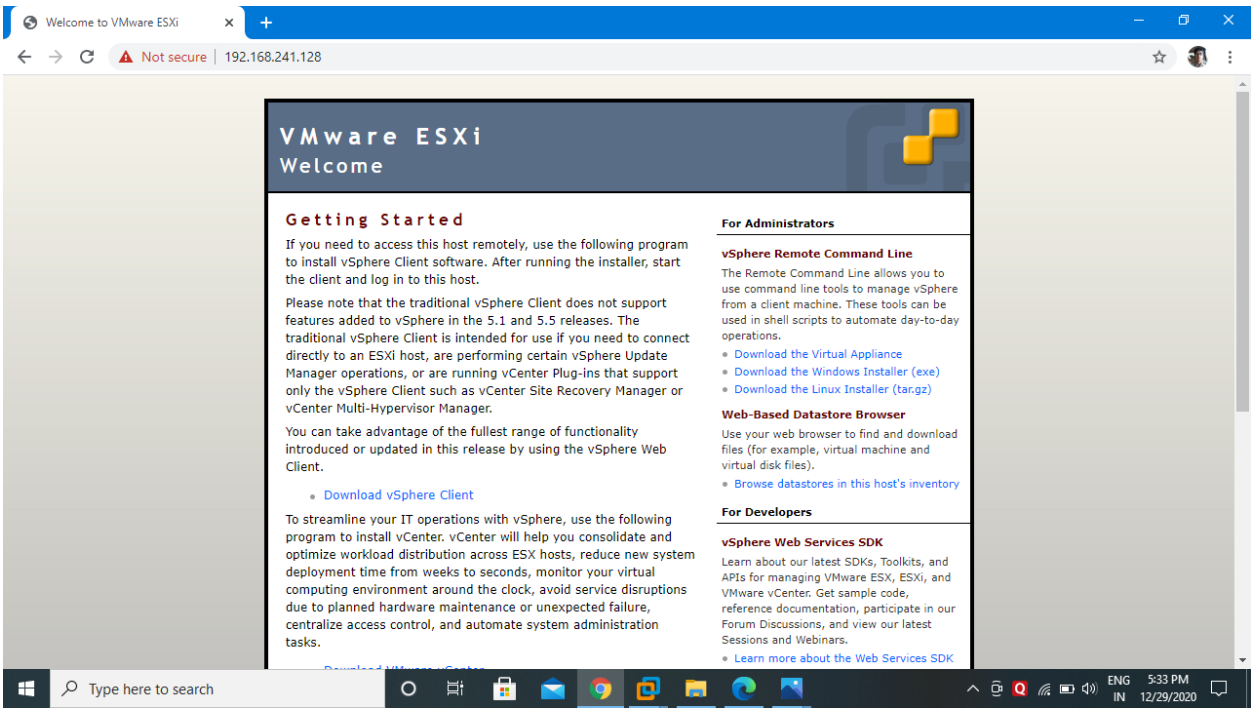

VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
Loading VMware ESXi
Loading /tboot.b00
Loading /b.b00
Loading /jumpstrt.gz
Loading /useropts.gz
Loading /k.b00
Loading /chardevs.b00
Loading /a.b00
Loading /user.b00
Loading /sb.v00
Loading /s.v00
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
5:14 PM
12/29/2020

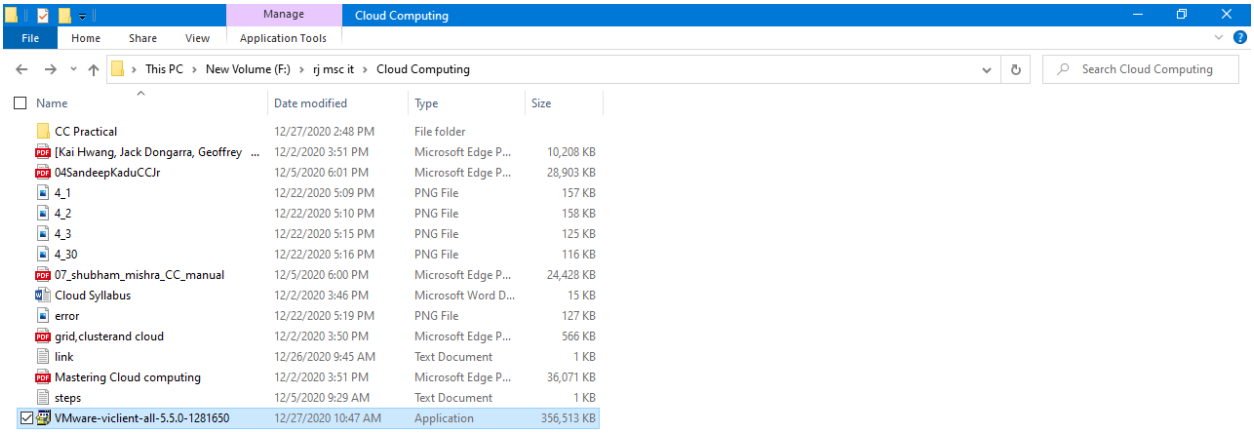

VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
VMware ESXi 5.5.0 (VMKernel Release Build 1331820)
VMware, Inc. VMware Virtual Platform
2 x Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz
4 GiB Memory
Loading module e1000 ...
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
5:15 PM
12/29/2020


VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
VMware ESXi 5.5.0 (VMKernel Release Build 1331820)
VMware, Inc. VMware Virtual Platform
2 x Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz
4 GiB Memory
Download tools to manage this host from:
http://192.168.241.128/ (DHCP)
http://[fe80::20c:29ff:fe3e:48ee]/ (STATIC)
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
5:17 PM
12/29/2020

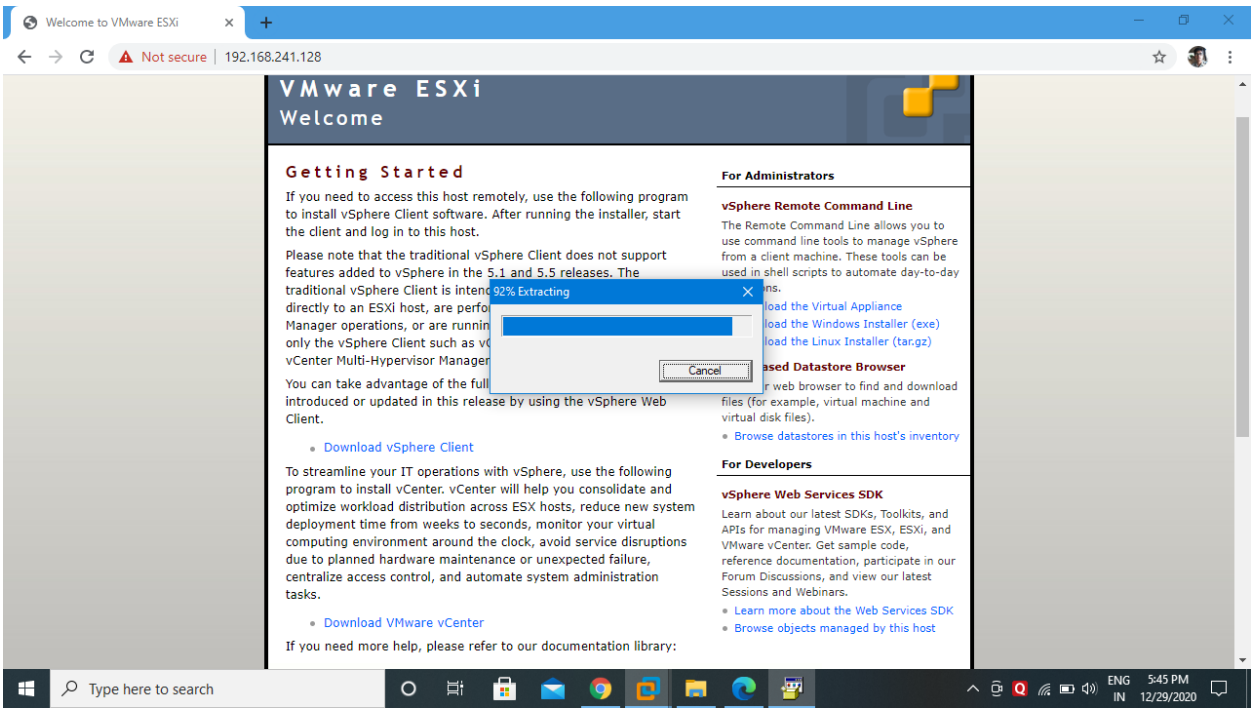

VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
VMware ESXi 5.5.0 (VMKernel Release Build 1331820)
VMware, Inc. VMware Virtual Platform
2 x Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz
4 GiB Memory
Download tools to manage this host from:
http://192.168.241.128/ (DHCP)
http://[fe80::20c:29ff:fe3e:48ee]/ (STATIC)
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
5:18 PM
12/29/2020

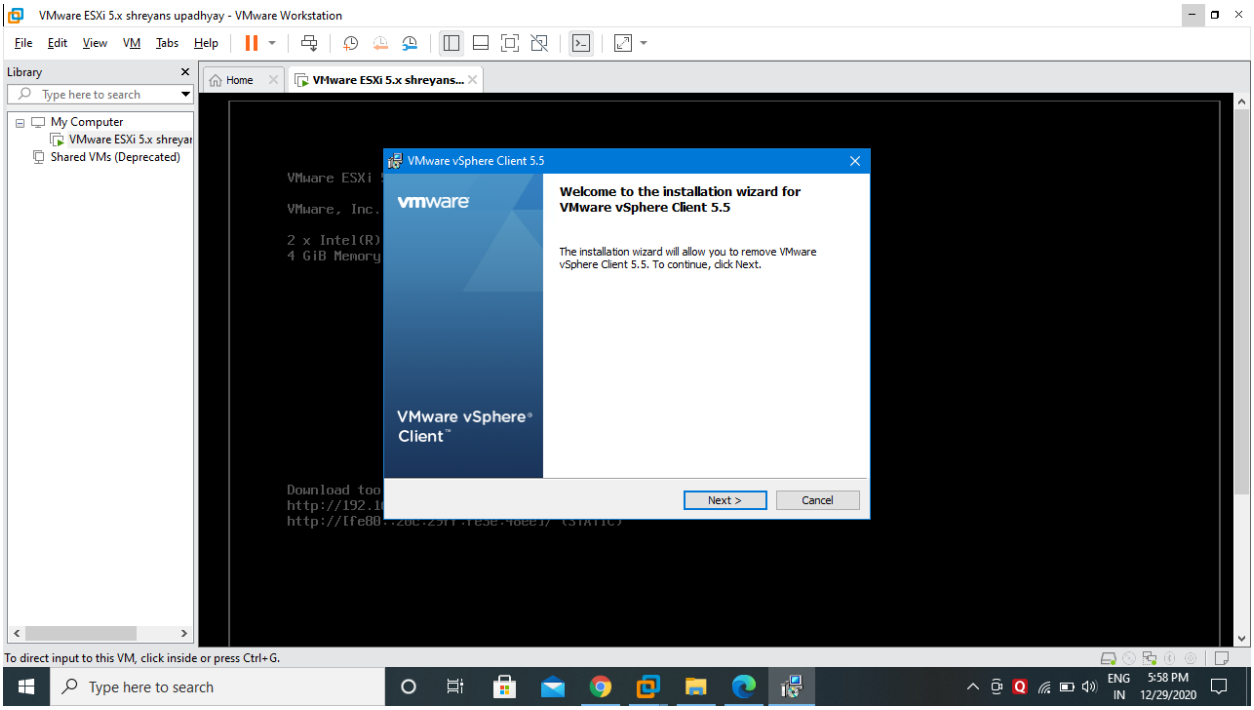

Privacy error
Not secure | 192.168.241.128
Your connection is not private
Attackers might be trying to steal your information from 192.168.241.128 (for example, passwords, messages, or credit cards). Learn more
NET::ERR_CERT_AUTHORITY_INVALID
Help improve security on the web for everyone by sending URLs of some pages you visit, limited system information, and some page content to Google. Privacy policy
Advanced
Back to safety
Type here to search
ENG IN
5:23 PM 12/29/2020


Welcome to VMware ESXi
Not secure | 192.168.241.128
VMware ESXi
Welcome
Getting Started
If you need to access this host remotely, use the following program to install vSphere Client software. After running the installer, start the client and log in to this host.
Please note that the traditional vSphere Client does not support features added to vSphere in the 5.1 and 5.5 releases. The traditional vSphere Client is intended for use if you need to connect directly to an ESXi host, are performing certain vSphere Update Manager operations, or are running vCenter Plug-ins that support only the vSphere Client such as vCenter Site Recovery Manager or vCenter Multi-Hypervisor Manager.
You can take advantage of the fullest range of functionality introduced or updated in this release by using the vSphere Web Client.
Download vSphere Client
To streamline your IT operations with vSphere, use the following program to install vCenter. vCenter will help you consolidate and optimize workload distribution across ESX hosts, reduce new system deployment time from weeks to seconds, monitor your virtual computing environment around the clock, avoid service disruptions due to planned hardware maintenance or unexpected failure, centralize access control, and automate system administration tasks.
For Administrators
vSphere Remote Command Line
The Remote Command Line allows you to use command line tools to manage vSphere from a client machine. These tools can be used in shell scripts to automate day-to-day operations.
Download the Virtual Appliance
Download the Windows Installer (exe)
Download the Linux Installer (tar.gz)
Web-Based Datastore Browser
Use your web browser to find and download files (for example, virtual machine and virtual disk files).
Browse datastores in this host's inventory
For Developers
vSphere Web Services SDK
Learn about our latest SDKs, Toolkits, and APIs for managing VMware ESX, ESXi, and VMware vCenter. Get sample code, reference documentation, participate in our Forum Discussions, and view our latest Sessions and Webinars.
Learn more about the Web Services SDK
Type here to search
ENG IN
5:33 PM 12/29/2020

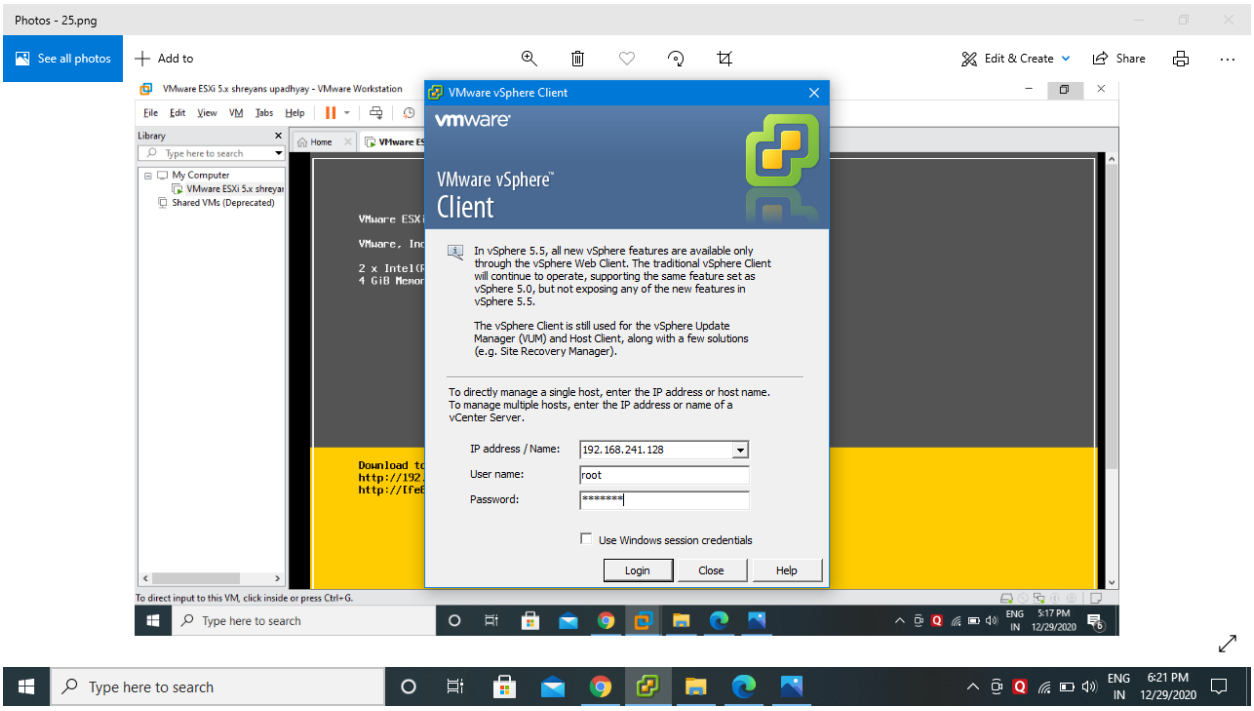

Manage
Cloud Computing
File
Home
Share
View
Application Tools
This PC › New Volume (F:) › rj msc it › Cloud Computing
Search Cloud Computing
Name
Date modified
Type
Size
CC Practical 12/27/2020 2:48 PM File folder
[Kai Hwang, Jack Dongarra, Geoffrey ... 12/2/2020 3:51 PM Microsoft Edge P... 10,208 KB
04SandeepKaduCCJr 12/5/2020 6:01 PM Microsoft Edge P... 28,903 KB
4_1 12/22/2020 5:09 PM PNG File 157 KB
4_2 12/22/2020 5:10 PM PNG File 158 KB
4_3 12/22/2020 5:15 PM PNG File 125 KB
4_30 12/22/2020 5:16 PM PNG File 116 KB
07_shubham_mishra_CC_manual 12/5/2020 6:00 PM Microsoft Edge P... 24,428 KB
Cloud Syllabus 12/2/2020 3:46 PM Microsoft Word D... 15 KB
error 12/22/2020 5:19 PM PNG File 127 KB
grid,clusterand cloud 12/2/2020 3:50 PM Microsoft Edge P... 566 KB
link 12/26/2020 9:45 AM Text Document 1 KB
Mastering Cloud computing 12/2/2020 3:51 PM Microsoft Edge P... 36,071 KB
steps 12/5/2020 9:29 AM Text Document 1 KB
VMware-viclient-all-5.5.0-1281650 12/27/2020 10:47 AM Application 356,513 KB

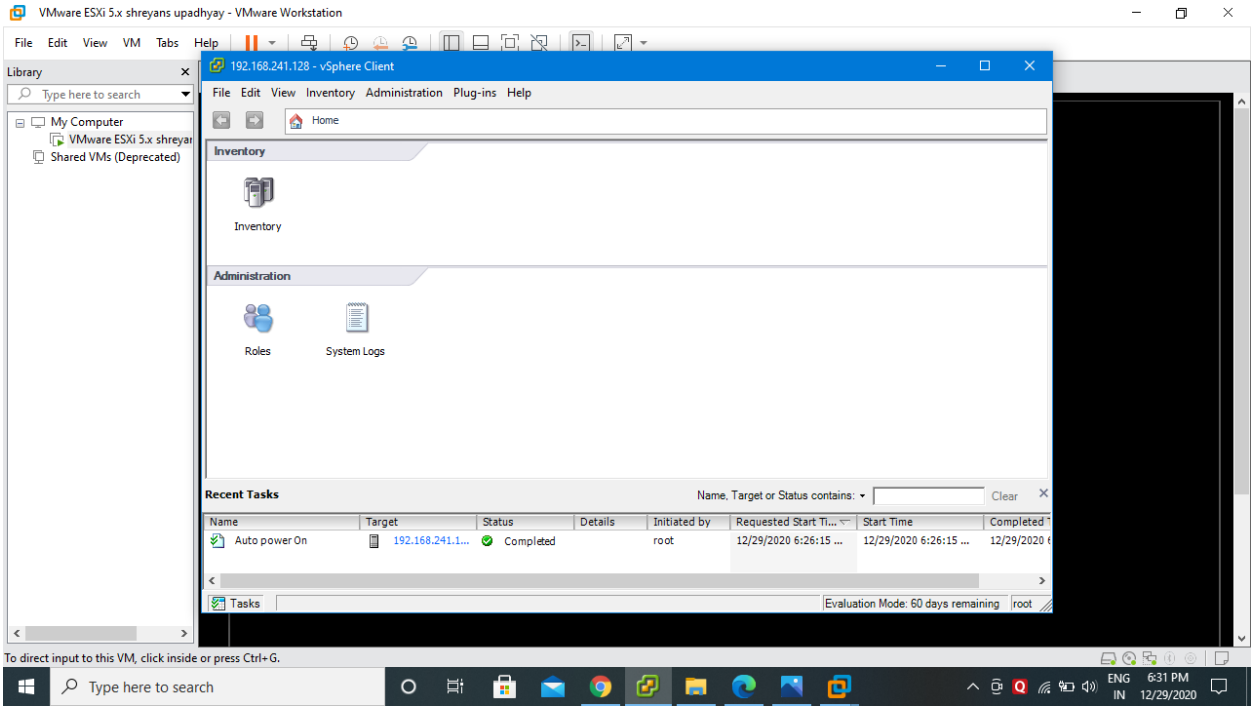

15 items
1 item selected 348 MB
Type here to search
ENG
IN
5:42 PM
12/29/2020

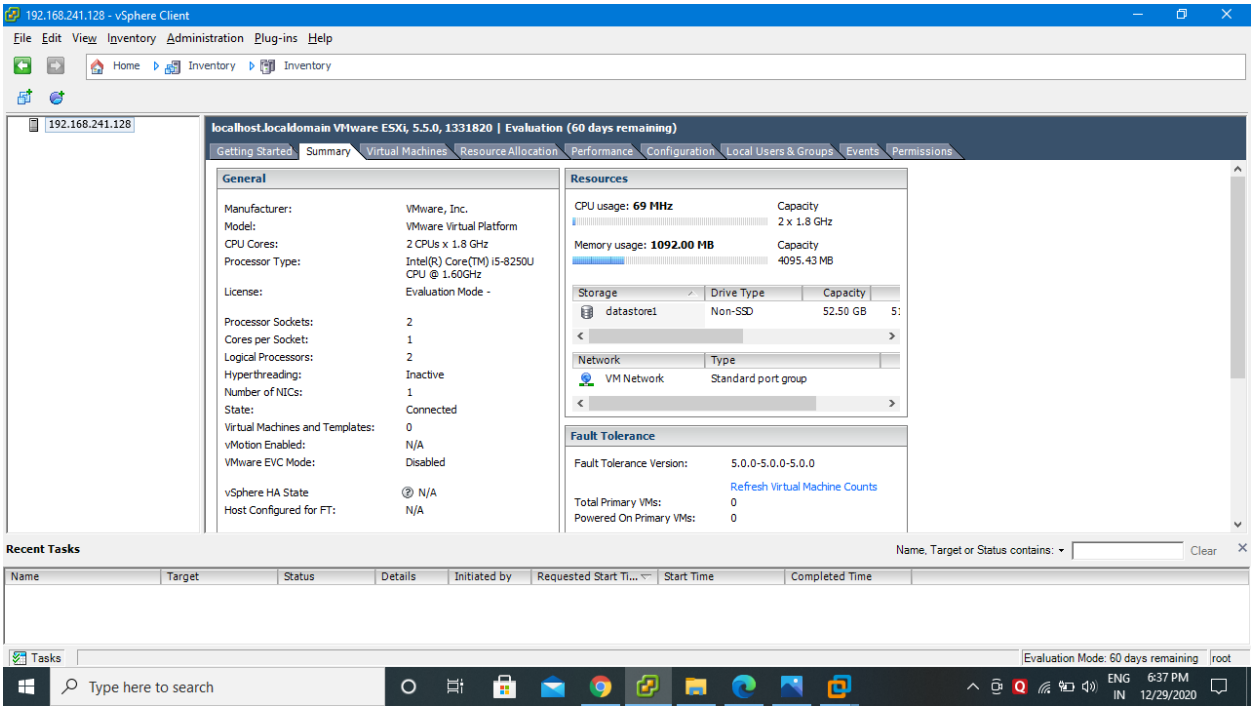

Welcome to VMware ESXi
Not secure | 192.168.241.128
VMware ESXi
Welcome
Getting Started
If you need to access this host remotely, use the following program to install vSphere Client software. After running the installer, start the client and log in to this host.
Please note that the traditional vSphere Client does not support features added to vSphere in the 5.1 and 5.5 releases. The traditional vSphere Client is intend
directly to an ESXi host, are perfo
Manager operations, or are runnin
only the vSphere Client such as v
vCenter Multi-Hypervisor Manager
You can take advantage of the full
introduced or updated in this release by using the vSphere Web Client.
Download vSphere Client
To streamline your IT operations with vSphere, use the following program to install vCenter. vCenter will help you consolidate and optimize workload distribution across ESX hosts, reduce new system deployment time from weeks to seconds, monitor your virtual computing environment around the clock, avoid service disruptions due to planned hardware maintenance or unexpected failure, centralize access control, and automate system administration tasks.
Download VMware vCenter
If you need more help, please refer to our documentation library:
92% Extracting
Cancel
For Administrators
vSphere Remote Command Line
The Remote Command Line allows you to use command line tools to manage vSphere from a client machine. These tools can be used in shell scripts to automate day-to-day
load the Virtual Appliance
load the Windows Installer (exe)
load the Linux Installer (tar.gz)
sed Datastore Browser
r web browser to find and download files (for example, virtual machine and virtual disk files).
Browse datastores in this host's inventory
For Developers
vSphere Web Services SDK
Learn about our latest SDKs, Toolkits, and APIs for managing VMware ESX, ESXi, and VMware vCenter. Get sample code, reference documentation, participate in our Forum Discussions, and view our latest Sessions and Webinars.
Learn more about the Web Services SDK
Browse objects managed by this host
Type here to search
ENG
IN
5:45 PM
12/29/2020

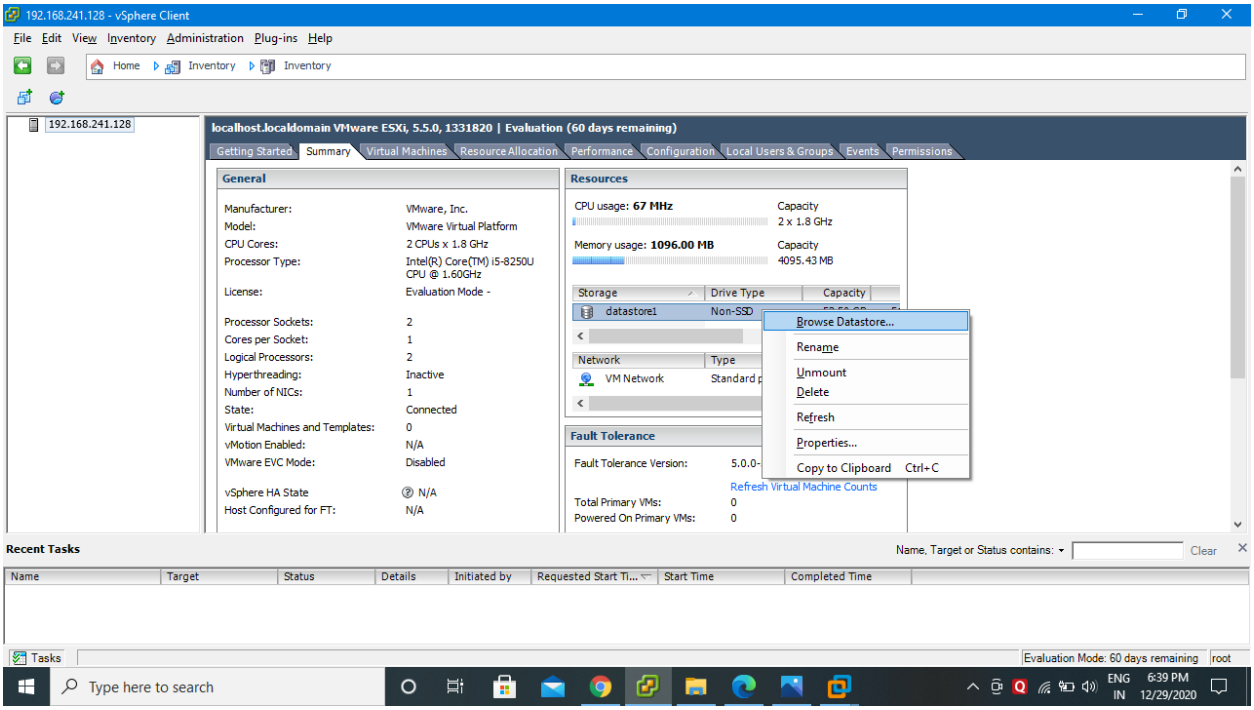


Enter the IP address (which was assigned dynamically) and enter the username and passowrd




VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
192.168.241.128 - 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
192.168.241.1...
Completed
root
12/29/2020 6:26:15 ...
12/29/2020 6:26:15 ...
Tasks
Evaluation Mode: 60 days remaining
root
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
6:31 PM
12/29/2020


192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home
Inventory
Inventory
192.168.241.128
localhost.localdomain VMware ESXi, 5.5.0, 1331820 | Evaluation (60 days remaining)
Getting Started
Summary
Virtual Machines
Resource Allocation
Performance
Configuration
Local Users & Groups
Events
Permissions
General
Manufacturer: VMware, Inc.
Model: VMware Virtual Platform
CPU Cores: 2 CPUs x 1.8 GHz
Processor Type: Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz
License: Evaluation Mode -
Processor Sockets: 2
Cores per Socket: 1
Logical Processors: 2
Hyperthreading: Inactive
Number of NICs: 1
State: Connected
Virtual Machines and Templates: 0
vMotion Enabled: N/A
VMware EVC Mode: Disabled
vSphere HA State N/A
Host Configured for FT: N/A
Resources
CPU usage: 69 MHz
Capacity
2 x 1.8 GHz
Memory usage: 1092.00 MB
Capacity
4095.43 MB
Storage
Drive Type
Capacity
datastore1
Non-SSD
52.50 GB
Network
Type
VM Network
Standard port group
Fault Tolerance
Fault Tolerance Version: 5.0.0-5.0.0-5.0.0
Refresh Virtual Machine Counts
Total Primary VMs: 0
Powered On Primary VMs: 0
Recent Tasks
Name, Target or Status contains:
Clear
Name
Target
Status
Details
Initiated by
Requested Start Ti...
Start Time
Completed Time
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
6:37 PM
12/29/2020


192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
192.168.241.128
localhost.localdomain VMware ESXi, 5.5.0, 1331820 | Evaluation (60 days remaining)
Getting Started Summary Virtual Machines Resource Allocation Performance Configuration Local Users & Groups Events Permissions
General
Manufacturer: VMware, Inc.
Model: VMware Virtual Platform
CPU Cores: 2 CPUs x 1.8 GHz
Processor Type: Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz
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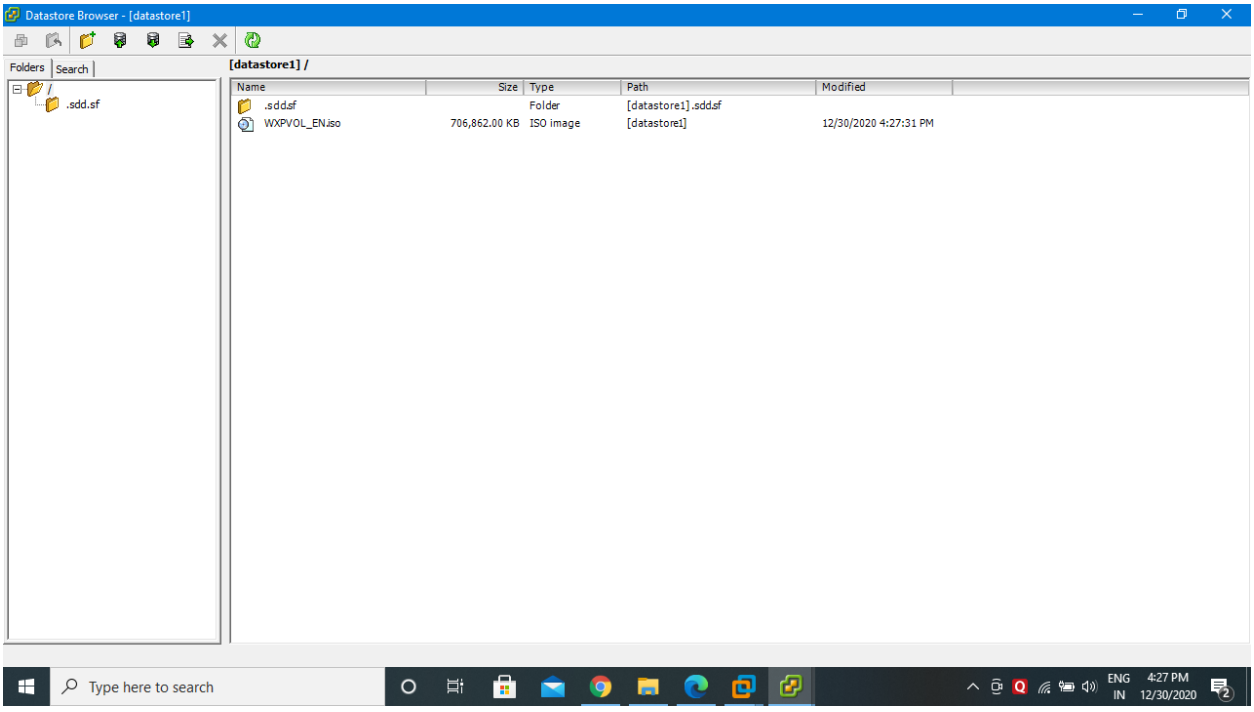
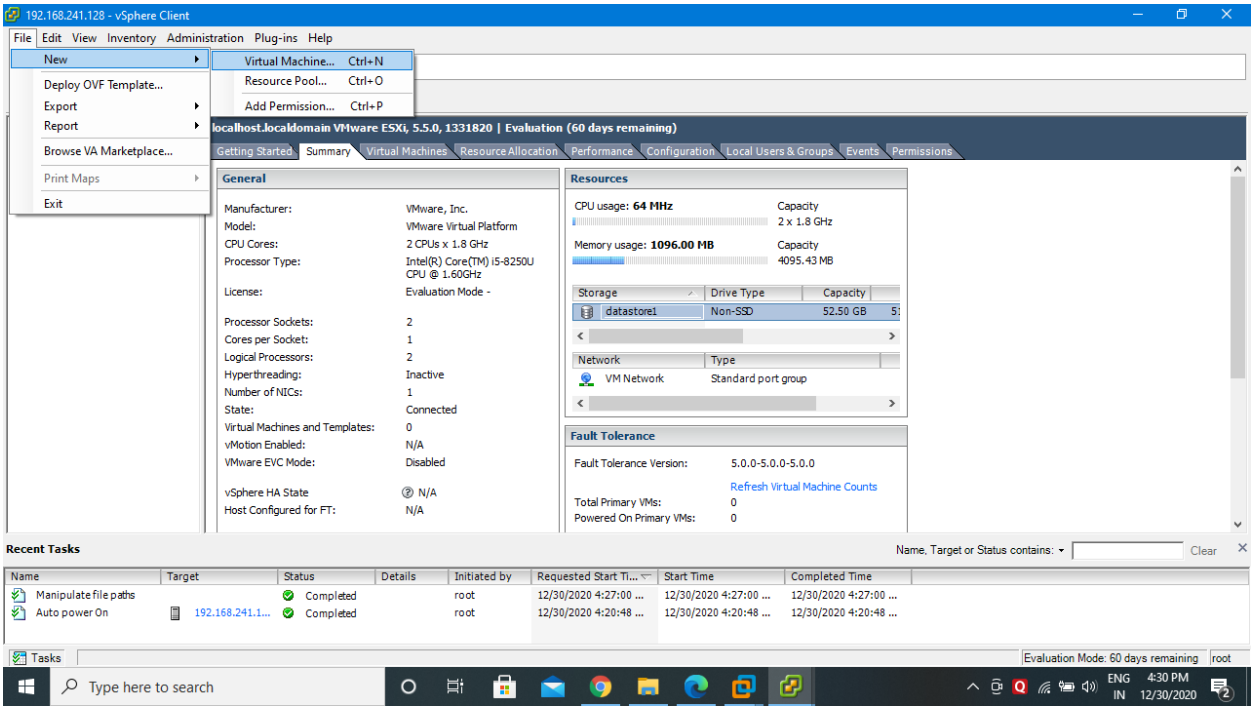
Hyperthreading: Inactive
Number of NICs: 1
State: Connected
Virtual Machines and Templates: 0
vMotion Enabled: N/A
VMware EVC Mode: Disabled
vSphere HA State N/A
Host Configured for FT: N/A
Resources
CPU usage: 67 MHz
Capacity
2 x 1.8 GHz
Memory usage: 1096.00 MB
Capacity
4095.43 MB
Storage
Drive Type
Capacity
datastore1
Non-SSD
Network
Type
VM Network
Standard
Browse Datastore...
Rename
Unmount
Delete
Refresh
Properties...
Copy to Clipboard Ctrl+C
Fault Tolerance
Fault Tolerance Version: 5.0.0-
Refresh Virtual Machine Counts
Total Primary VMs: 0
Powered On Primary VMs: 0
Recent Tasks
Name, Target or Status contains:
Clear
Name
Target
Status
Details
Initiated by
Requested Start Ti...
Start Time
Completed Time
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
6:39 PM
12/29/2020


Datastore Browser - [datastore1]
Folders Search
/
.sdd.sf
[datastore1] /
Name
Size
Type
Path
Modified
.sdd.sf
Folder
[datastore1] .sdd.sf
WXPVOL_EN.iso
706,862.00 KB
ISO image
[datastore1]
12/30/2020 4:27:31 PM
Type here to search
ENG
IN
4:27 PM
12/30/2020


192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
New
Virtual Machine... Ctrl+N
Resource Pool... Ctrl+O
Add Permission... Ctrl+P
Deploy OVF Template...
Export
Report
Browse VA Marketplace...
Print Maps
Exit
localhost.localdomain VMware ESXi, 5.5.0, 1331820 | Evaluation (60 days remaining)
Getting Started Summary Virtual Machines Resource Allocation Performance Configuration Local Users & Groups Events Permissions
General
Manufacturer: VMware, Inc.
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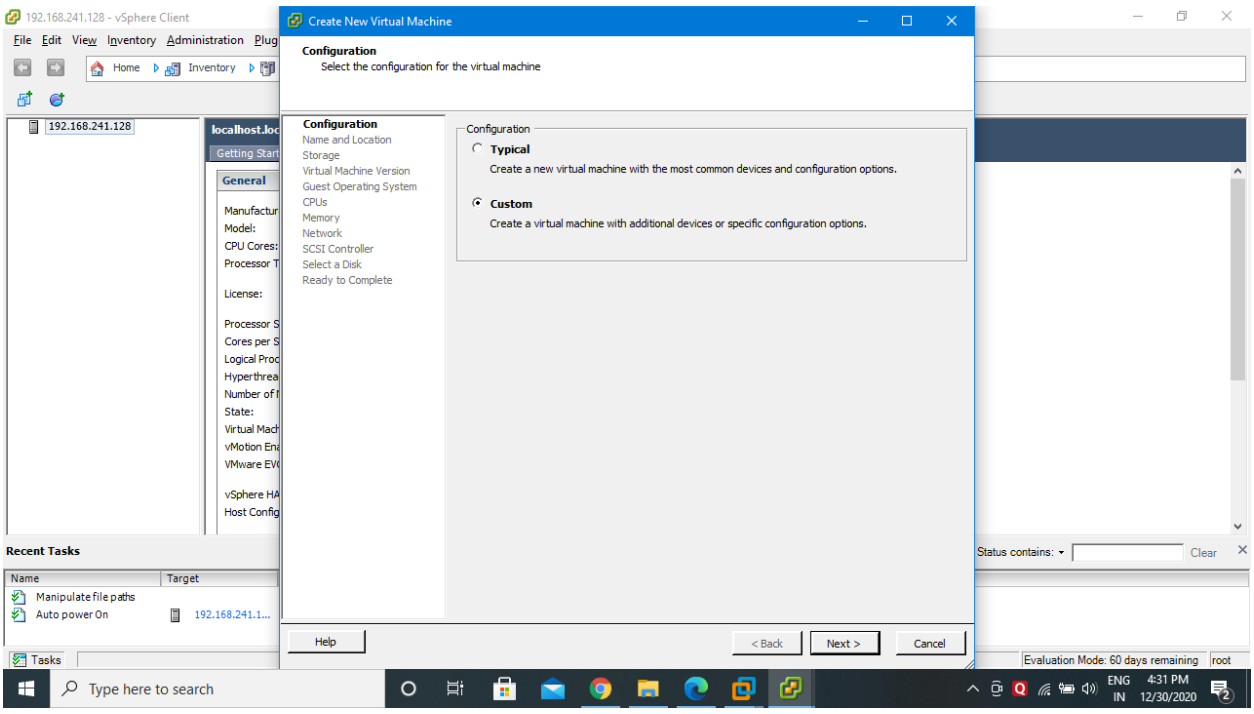
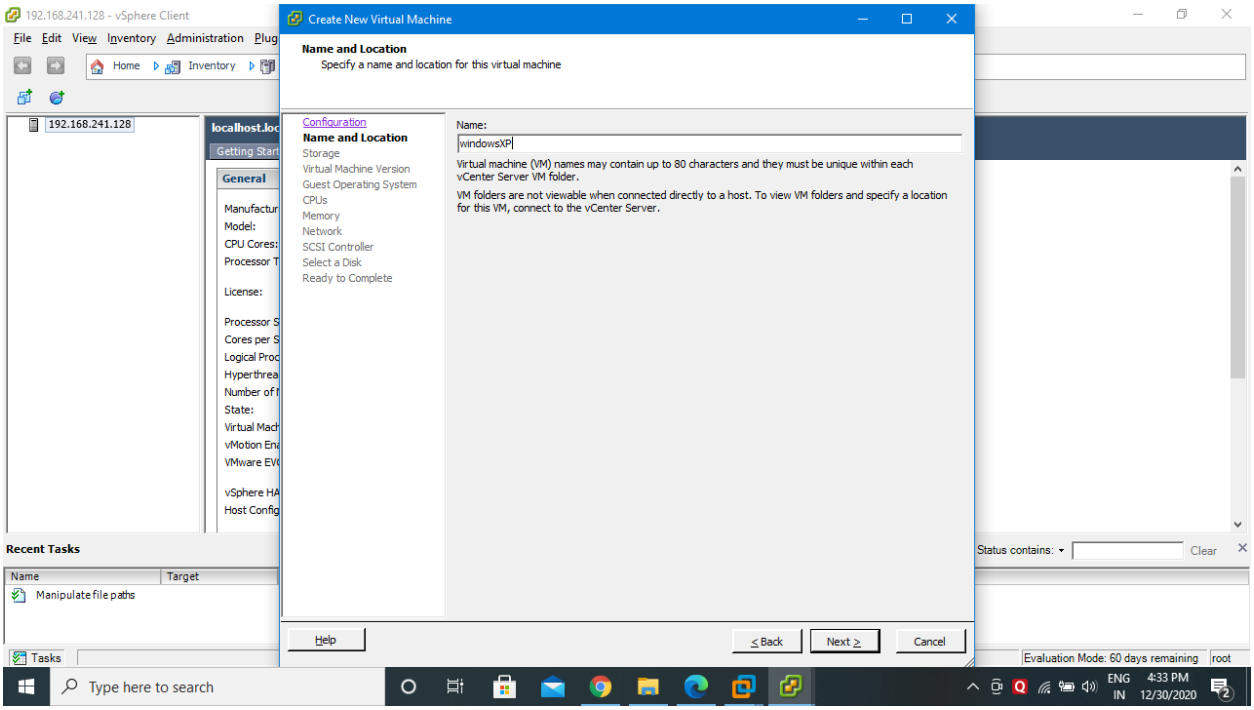
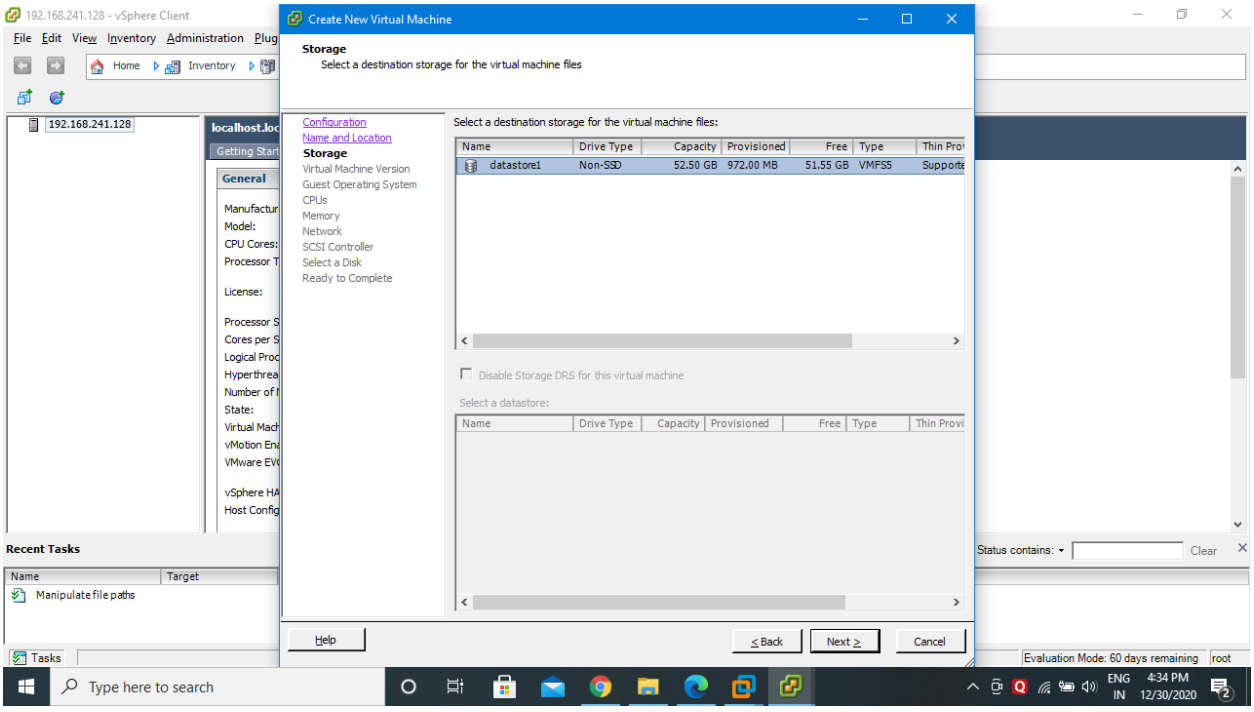
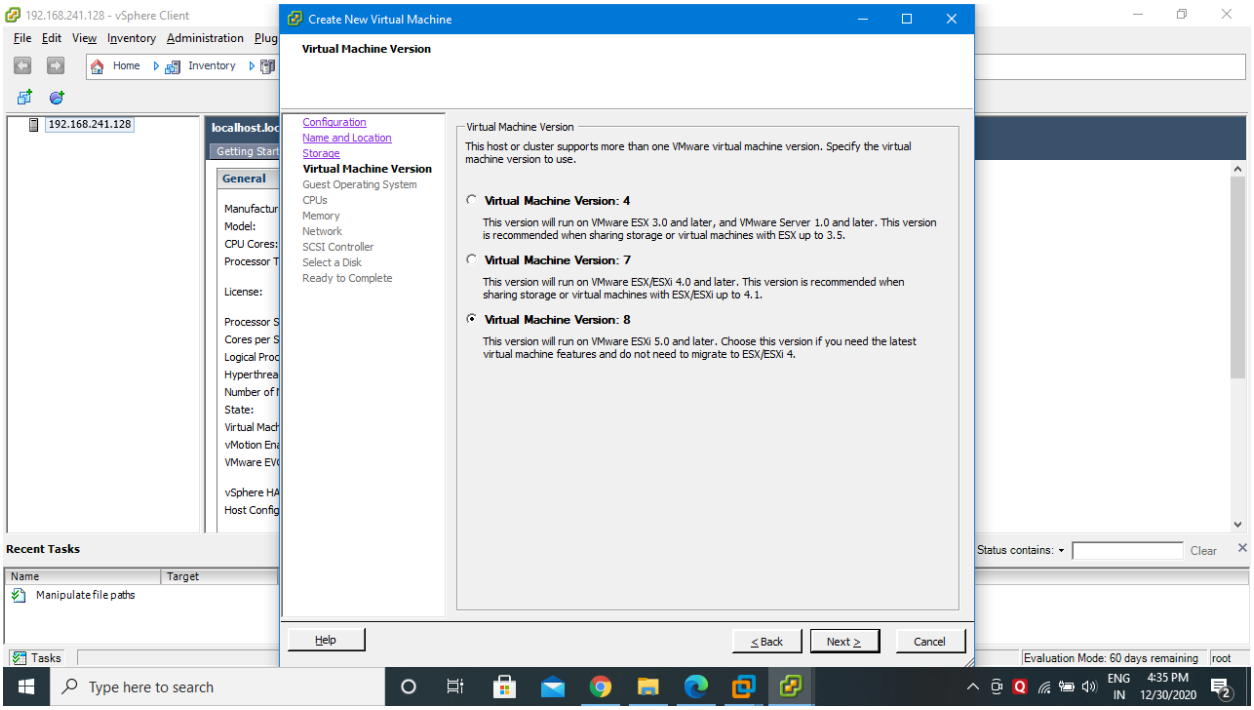
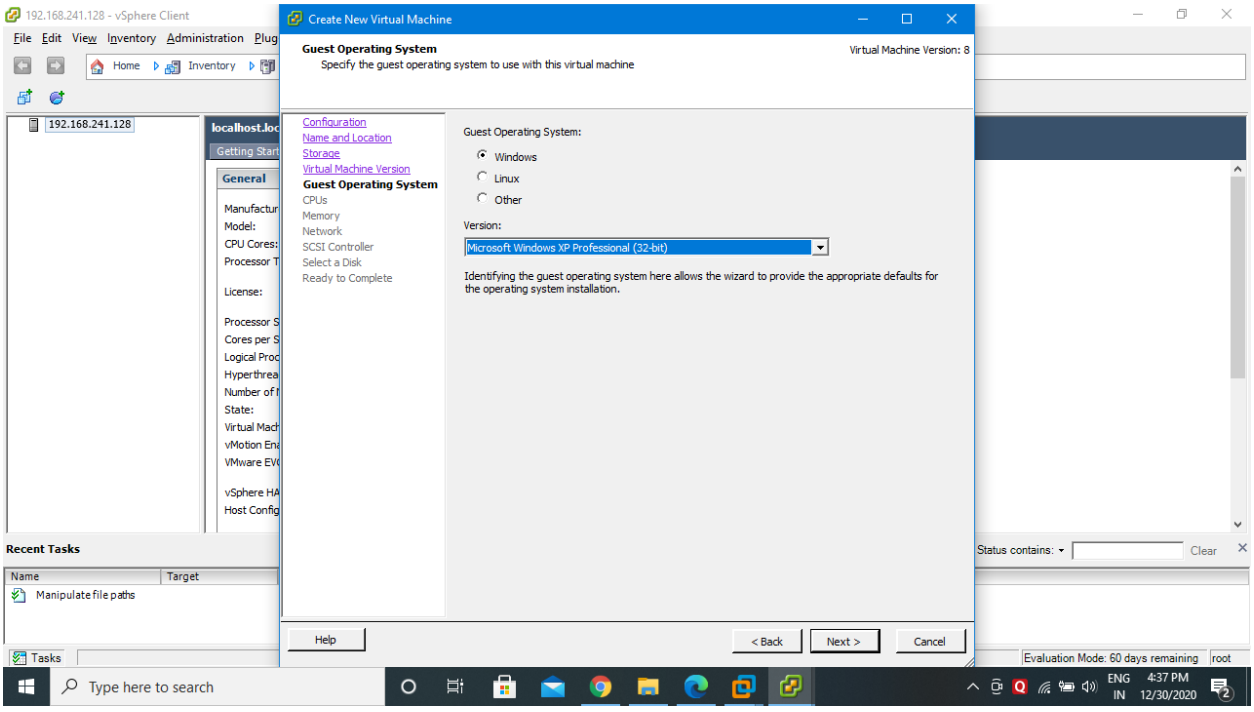
Cores per Socket: 1
Logical Processors: 2
Hyperthreading: Inactive
Number of NICs: 1
State: Connected
Virtual Machines and Templates: 0
vMotion Enabled: N/A
VMware EVC Mode: Disabled
vSphere HA State N/A
Host Configured for FT: N/A
Resources
CPU usage: 64 MHz Capacity 2 x 1.8 GHz
Memory usage: 1096.00 MB Capacity 4095.43 MB
Storage Drive Type Capacity
datastore1 Non-SSD 52.50 GB
Network Type
VM Network Standard port group
Fault Tolerance
Fault Tolerance Version: 5.0.0-5.0.0-5.0.0
Refresh Virtual Machine Counts
Total Primary VMs: 0
Powered On Primary VMs: 0
Recent Tasks
Name, Target or Status contains: Clear
Name Target Status Details Initiated by Requested Start Ti... Start Time Completed Time
Manipulate file paths Completed root 12/30/2020 4:27:00 ... 12/30/2020 4:27:00 ... 12/30/2020 4:27:00 ...
Auto power On 192.168.241.1... Completed root 12/30/2020 4:20:48 ... 12/30/2020 4:20:48 ... 12/30/2020 4:20:48 ...
Tasks
Evaluation Mode: 60 days remaining root
Type here to search
ENG IN 4:30 PM 12/30/2020

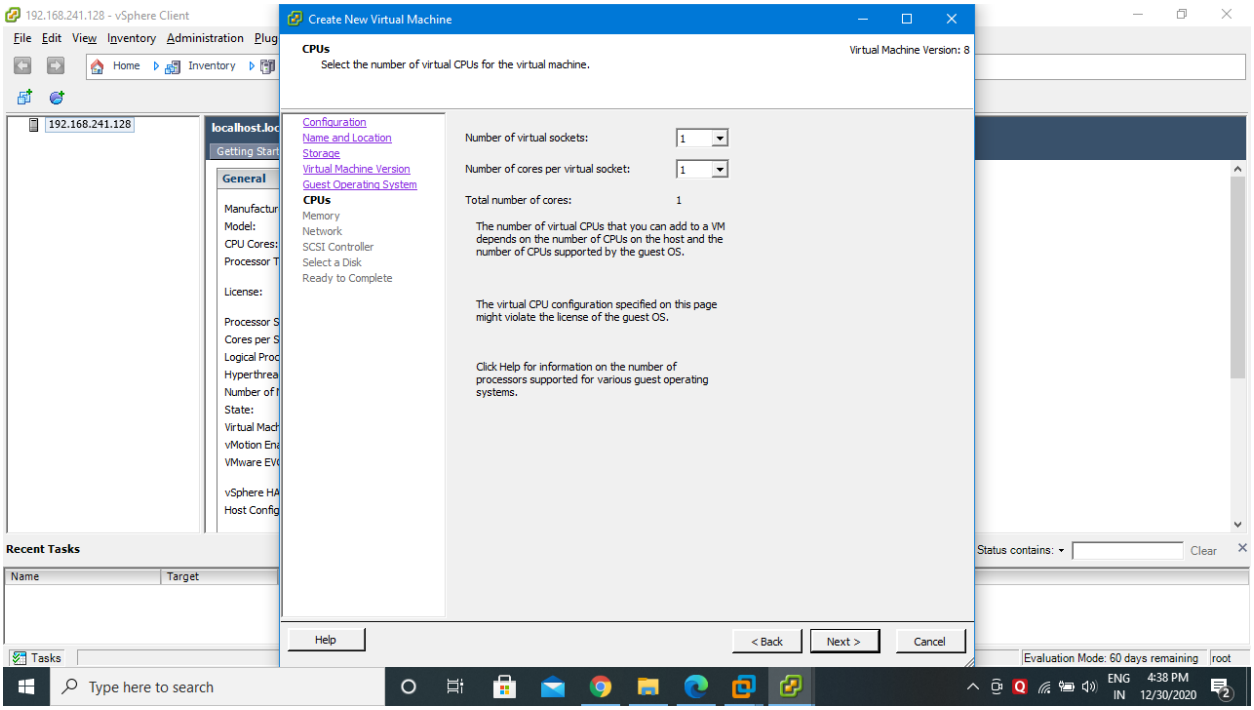

192.168.241.128 - vSphere Client
Create New Virtual Machine
Configuration
Select the configuration for the virtual machine
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Ready to Complete
Configuration
Typical
Create a new virtual machine with the most common devices and configuration options.
Custom
Create a virtual machine with additional devices or specific configuration options.
Help
< Back
Next >
Cancel
Recent Tasks
Status contains: Clear
Name Target
Manipulate file paths
Auto power On 192.168.241.1...
Tasks
Evaluation Mode: 60 days remaining root
Type here to search
ENG IN 4:31 PM 12/30/2020

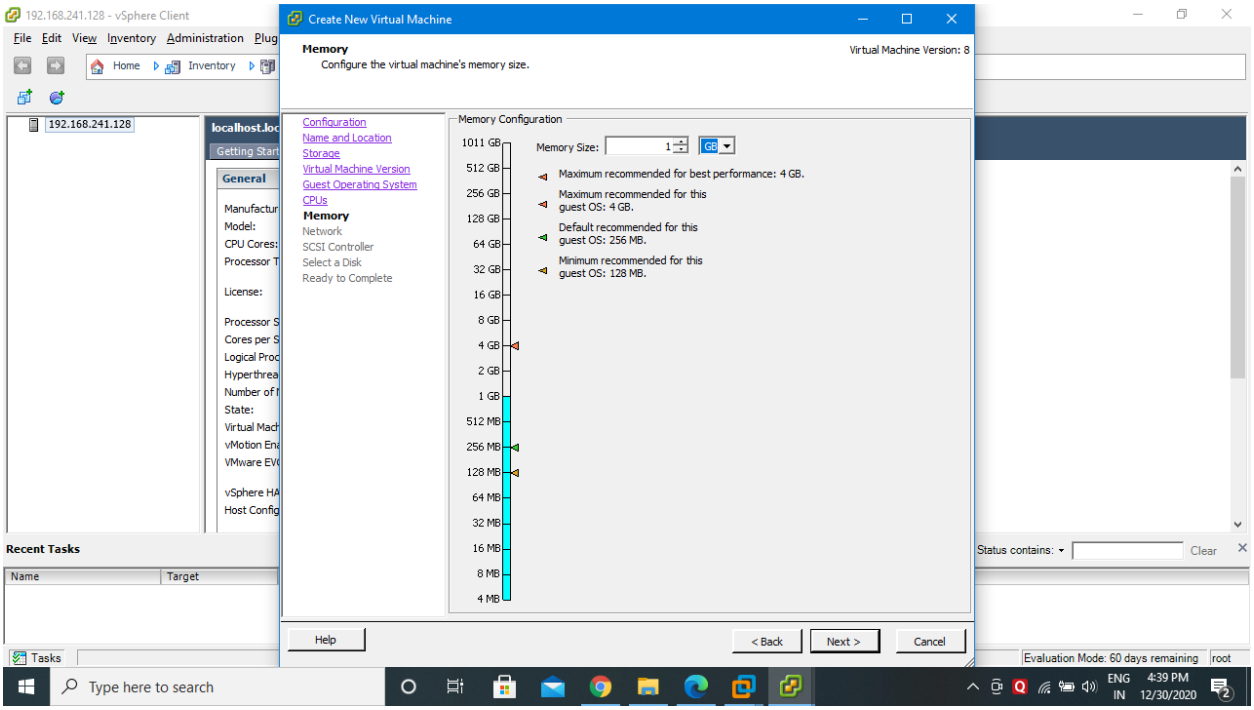

192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
Name and Location
Specify a name and location for this virtual machine
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Ready to Complete
Name:
windowsXP
Virtual machine (VM) names may contain up to 80 characters and they must be unique within each vCenter Server VM folder.
VM folders are not viewable when connected directly to a host. To view VM folders and specify a location for this VM, connect to the vCenter Server.
Help
< Back
Next >
Cancel
Recent Tasks
Name
Target
Manipulate file paths
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
4:33 PM
12/30/2020

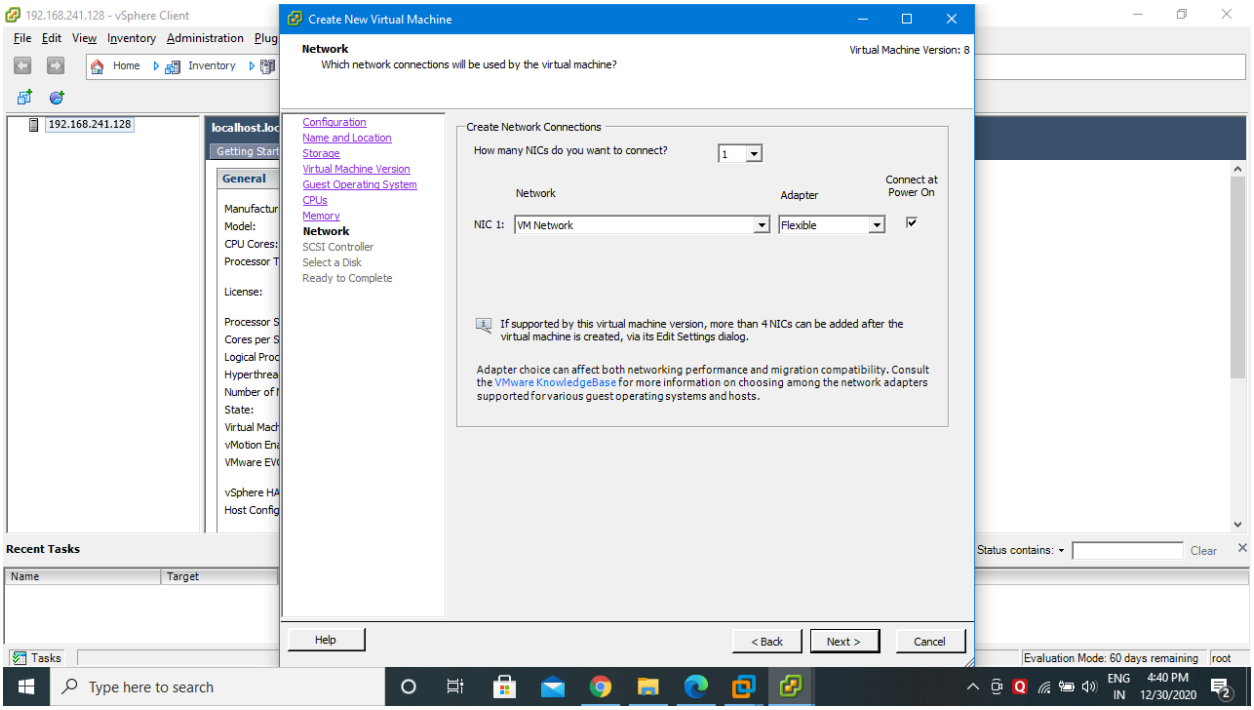

192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
Storage
Select a destination storage for the virtual machine files
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Ready to Complete
Select a destination storage for the virtual machine files:
Name
Drive Type
Capacity
Provisioned
Free
Type
Thin Pro
datastore1
Non-SSD
52.50 GB
972.00 MB
51.55 GB
VMFS5
Supporte
Disable Storage DRS for this virtual machine
Select a datastore:
Name
Drive Type
Capacity
Provisioned
Free
Type
Thin Provi
Help
< Back
Next >
Cancel
Recent Tasks
Name
Target
Manipulate file paths
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
4:34 PM
12/30/2020

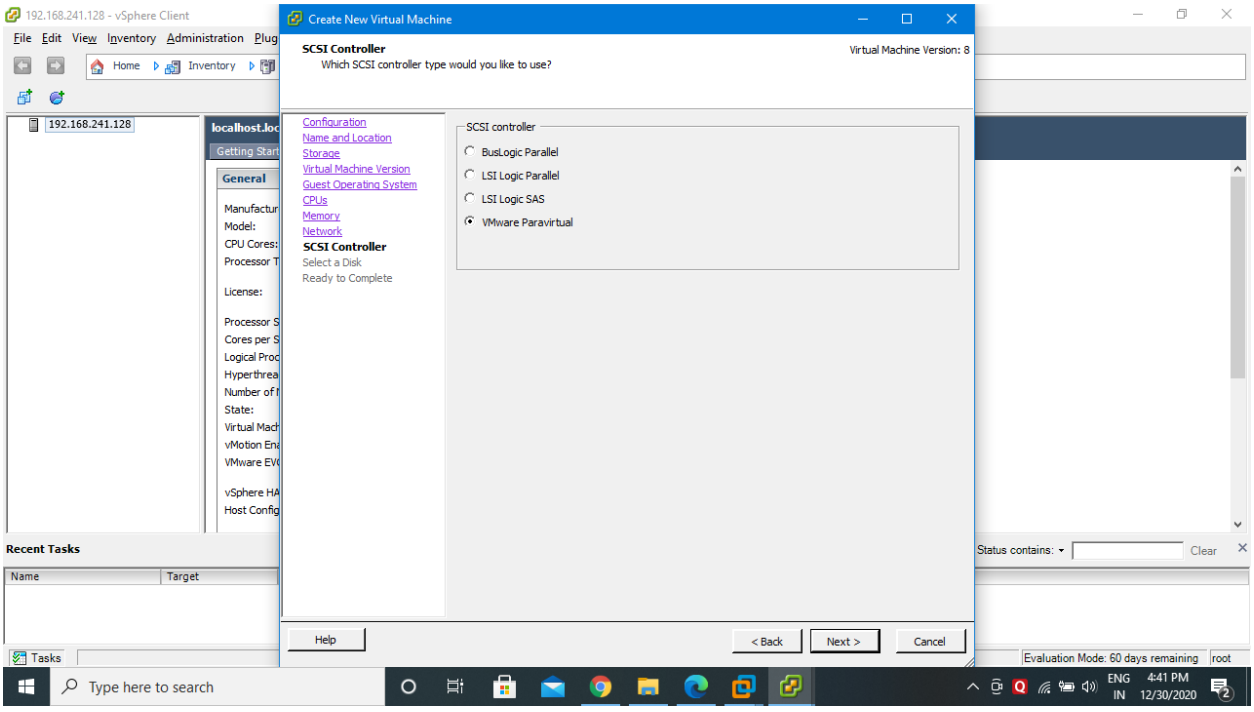

192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
Virtual Machine Version
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Ready to Complete
Virtual Machine Version
This host or cluster supports more than one VMware virtual machine version. Specify the virtual machine version to use.
Virtual Machine Version: 4
This version will run on VMware ESX 3.0 and later, and VMware Server 1.0 and later. This version is recommended when sharing storage or virtual machines with ESX up to 3.5.
Virtual Machine Version: 7
This version will run on VMware ESX/ESXi 4.0 and later. This version is recommended when sharing storage or virtual machines with ESX/ESXi up to 4.1.
Virtual Machine Version: 8
This version will run on VMware ESXi 5.0 and later. Choose this version if you need the latest virtual machine features and do not need to migrate to ESX/ESXi 4.
Help
< Back
Next >
Cancel
Recent Tasks
Name
Target
Manipulate file paths
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
4:35 PM
12/30/2020

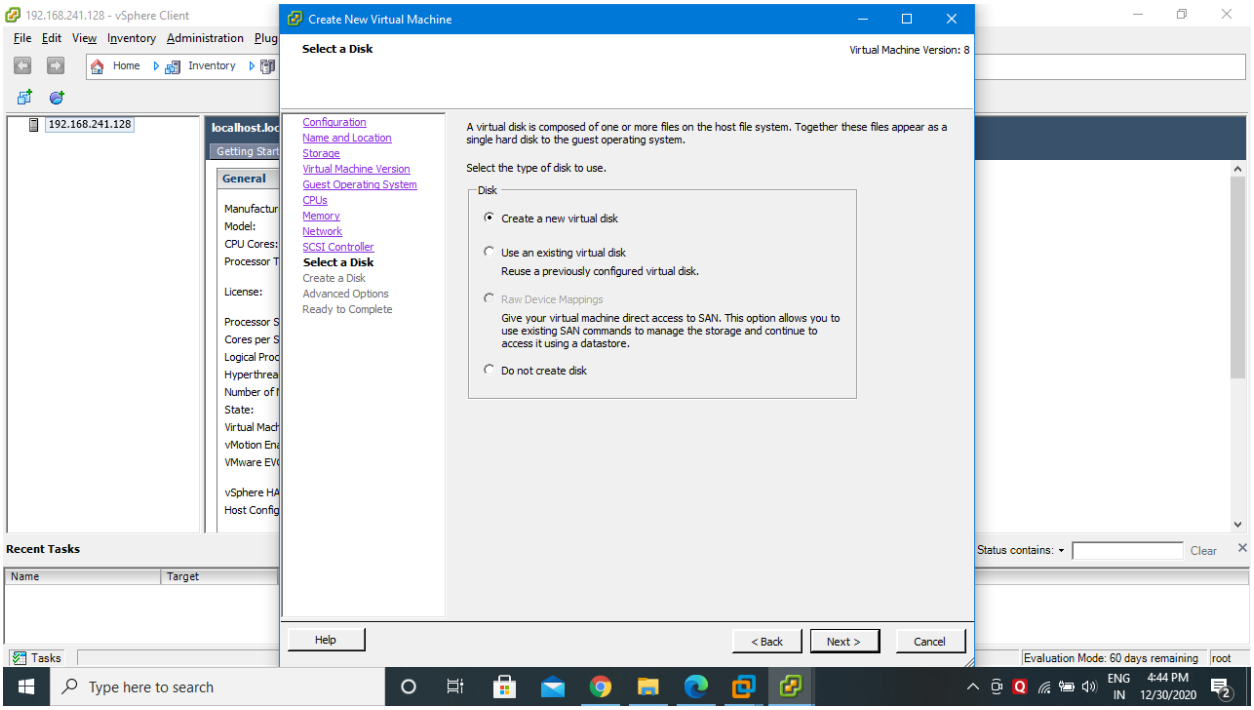

192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
Guest Operating System
Specify the guest operating system to use with this virtual machine
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Ready to Complete
Guest Operating System:
Windows
Linux
Other
Version:
Microsoft Windows XP Professional (32-bit)
Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.
Help
< Back
Next >
Cancel
Recent Tasks
Name
Target
Manipulate file paths
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
4:37 PM
12/30/2020

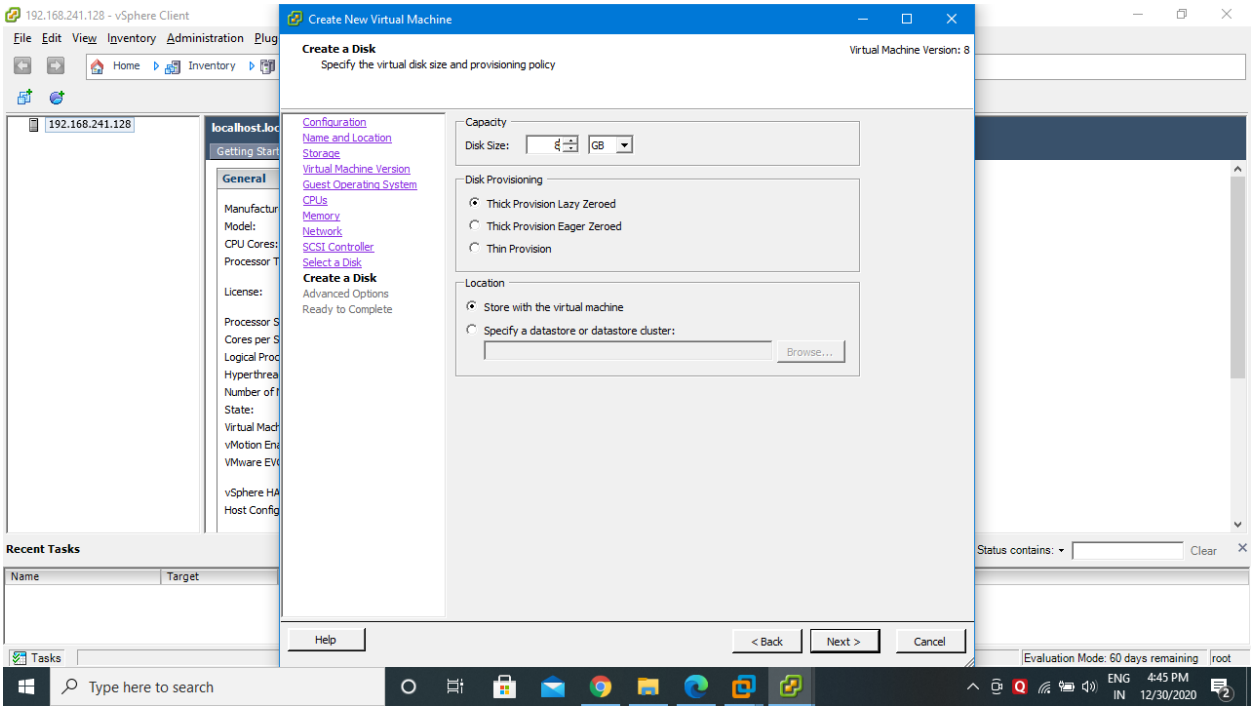

192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
CPUs
Select the number of virtual CPUs for the virtual machine.
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Ready to Complete
Number of virtual sockets:
Number of cores per virtual socket:
Total number of cores:
The number of virtual CPUs that you can add to a VM depends on the number of CPUs on the host and the number of CPUs supported by the guest OS.
The virtual CPU configuration specified on this page might violate the license of the guest OS.
Click Help for information on the number of processors supported for various guest operating systems.
Help
< Back
Next >
Cancel
Recent Tasks
Name
Target
Status contains:
Clear
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
4:38 PM
12/30/2020

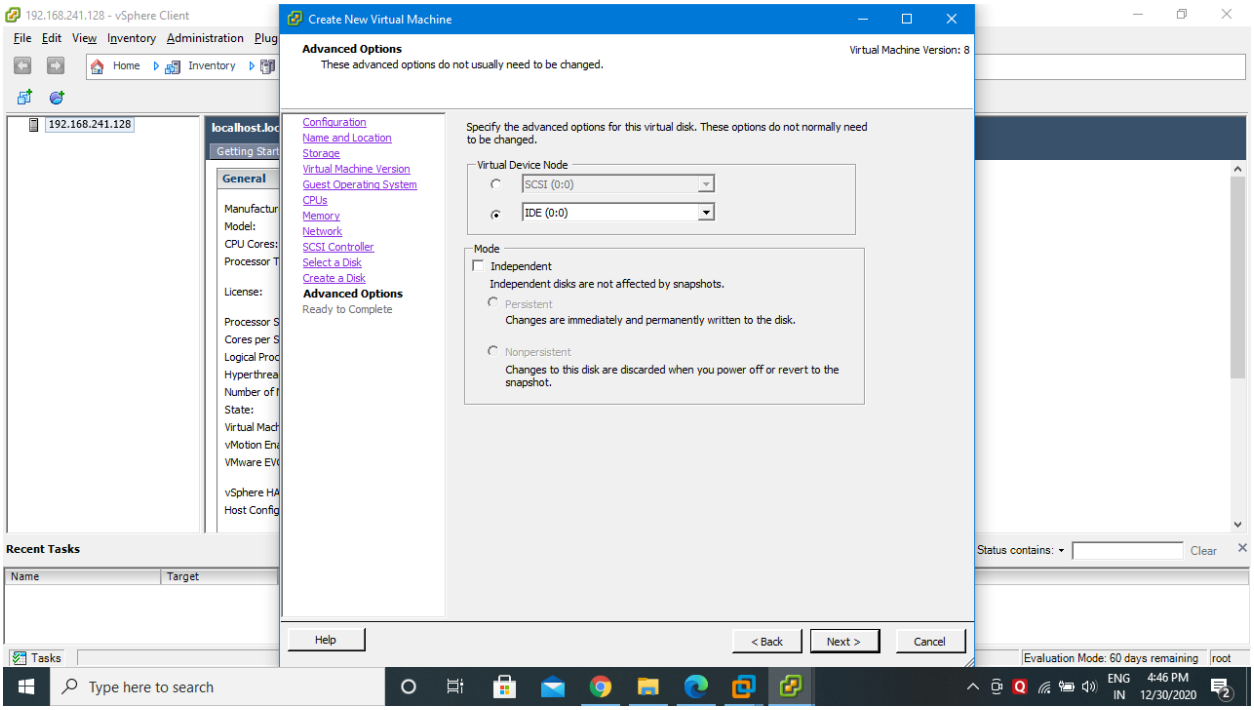

192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
Memory
Configure the virtual machine's memory size.
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Ready to Complete
Memory Configuration
Memory Size:
1011 GB
512 GB
256 GB
128 GB
64 GB
32 GB
16 GB
8 GB
4 GB
2 GB
1 GB
512 MB
256 MB
128 MB
64 MB
32 MB
16 MB
8 MB
4 MB
Maximum recommended for best performance: 4 GB.
Maximum recommended for this guest OS: 4 GB.
Default recommended for this guest OS: 256 MB.
Minimum recommended for this guest OS: 128 MB.
Help
< Back
Next >
Cancel
Recent Tasks
Name
Target
Status contains:
Clear
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
4:39 PM
12/30/2020

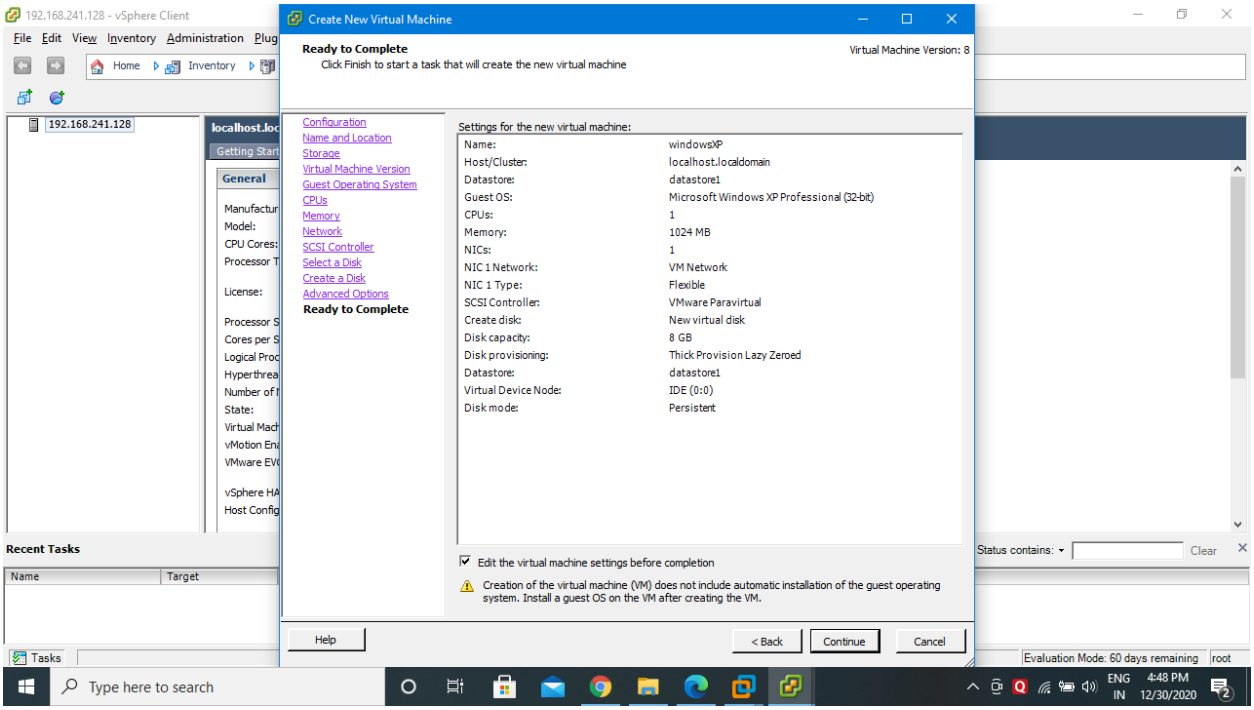

192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
Network
Which network connections will be used by the virtual machine?
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Ready to Complete
Create Network Connections
How many NICs do you want to connect?
1
Network
Adapter
Connect at Power On
NIC 1:
VM Network
Flexible
If supported by this virtual machine version, more than 4 NICs can be added after the virtual machine is created, via its Edit Settings dialog.
Adapter choice can affect both networking performance and migration compatibility. Consult the VMware KnowledgeBase for more information on choosing among the network adapters supported for various guest operating systems and hosts.
Help
< Back
Next >
Cancel
Recent Tasks
Name
Target
Status contains:
Clear
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
4:40 PM
12/30/2020

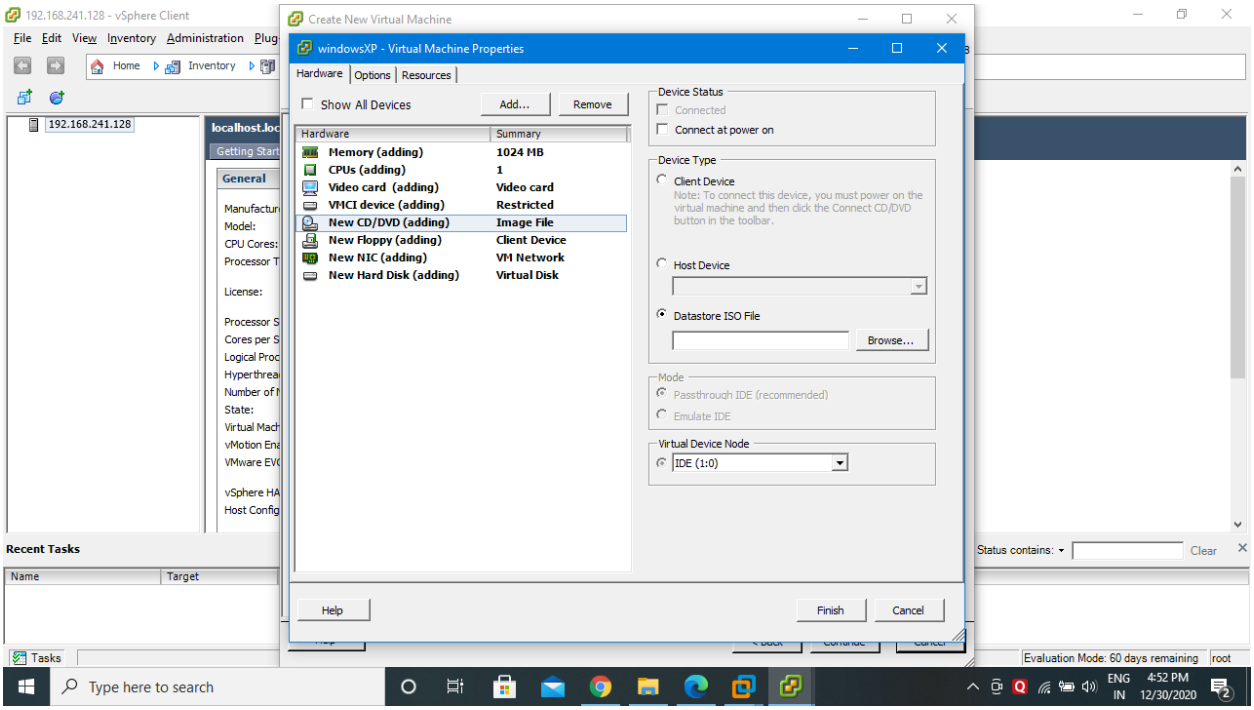

192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
SCSI Controller
Which SCSI controller type would you like to use?
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Ready to Complete
SCSI controller
BusLogic Parallel
LSI Logic Parallel
LSI Logic SAS
VMware Paravirtual
Help
< Back
Next >
Cancel
Recent Tasks
Name
Target
Status contains:
Clear
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
4:41 PM
12/30/2020

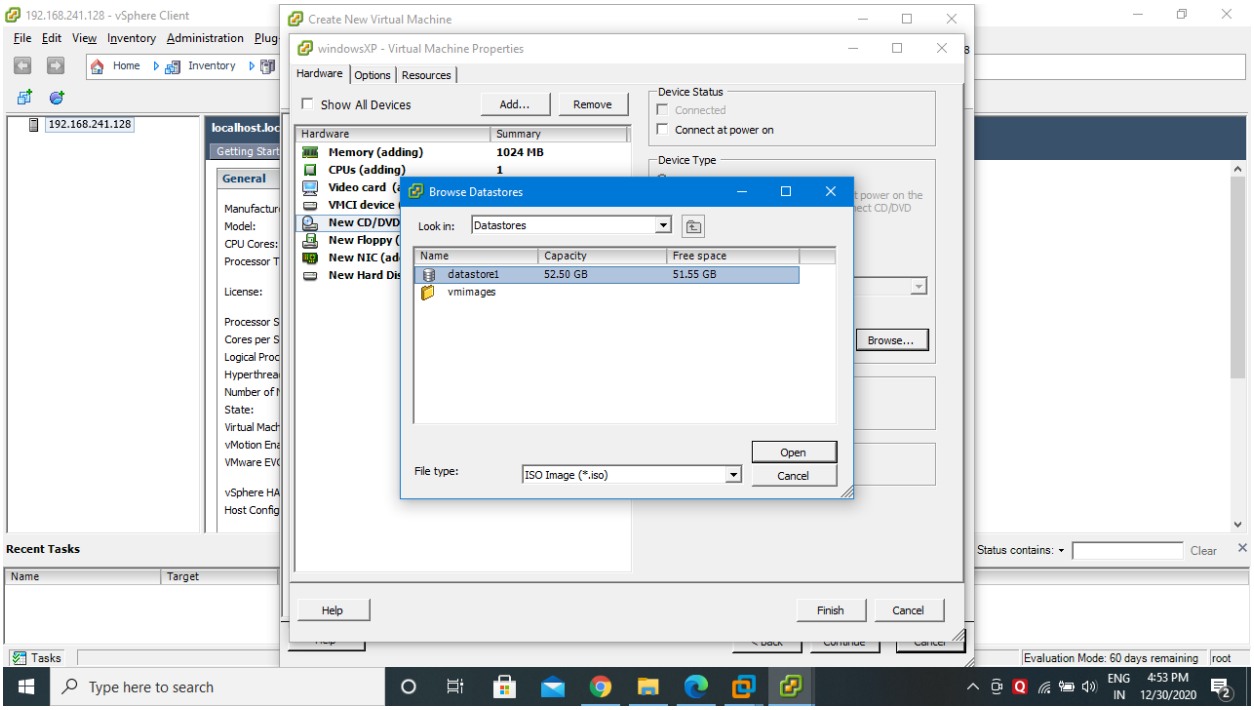

192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
Select a Disk
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Create a Disk
Advanced Options
Ready to Complete
A virtual disk is composed of one or more files on the host file system. Together these files appear as a single hard disk to the guest operating system.
Select the type of disk to use.
Disk
Create a new virtual disk
Use an existing virtual disk
Reuse a previously configured virtual disk.
Raw Device Mappings
Give your virtual machine direct access to SAN. This option allows you to use existing SAN commands to manage the storage and continue to access it using a datastore.
Do not create disk
Help
< Back
Next >
Cancel
Recent Tasks
Name
Target
Status contains:
Clear
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
4:44 PM
12/30/2020

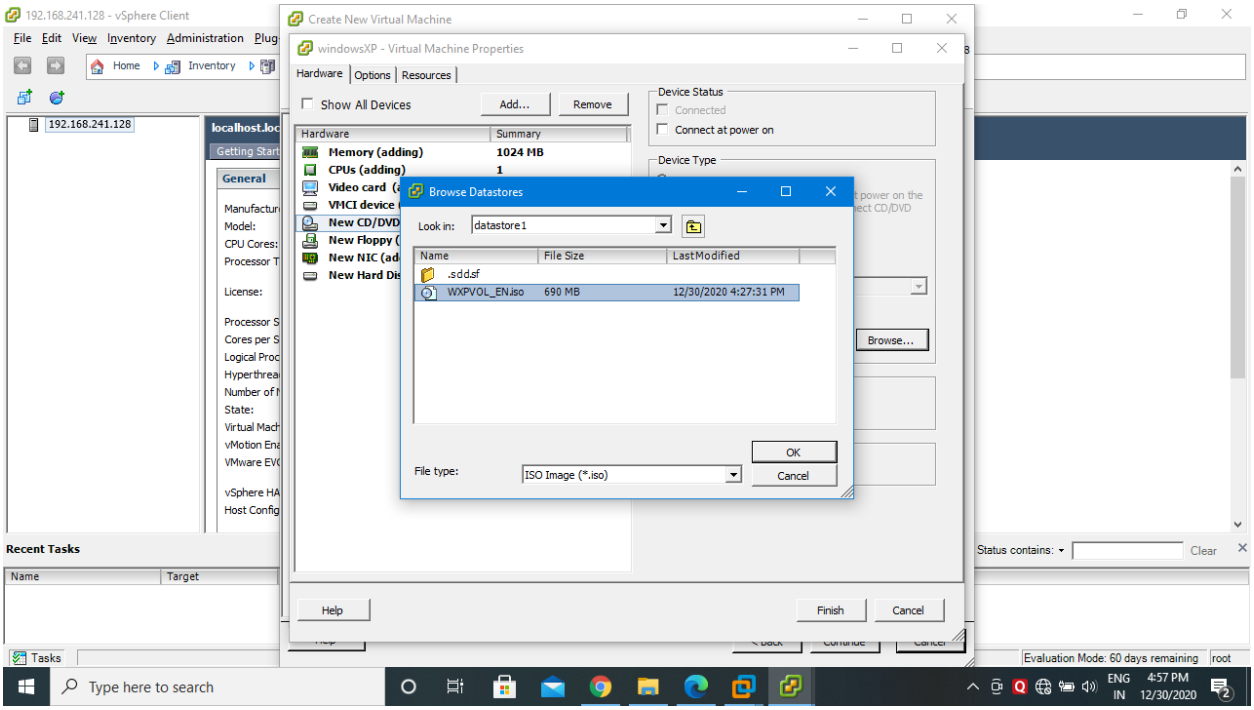

192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
Create a Disk
Specify the virtual disk size and provisioning policy
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Create a Disk
Advanced Options
Ready to Complete
Capacity
Disk Size:
GB
Disk Provisioning
Thick Provision Lazy Zeroed
Thick Provision Eager Zeroed
Thin Provision
Location
Store with the virtual machine
Specify a datastore or datastore cluster:
Browse...
Help
< Back
Next >
Cancel
Recent Tasks
Name
Target
Status contains:
Clear
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
4:45 PM
12/30/2020

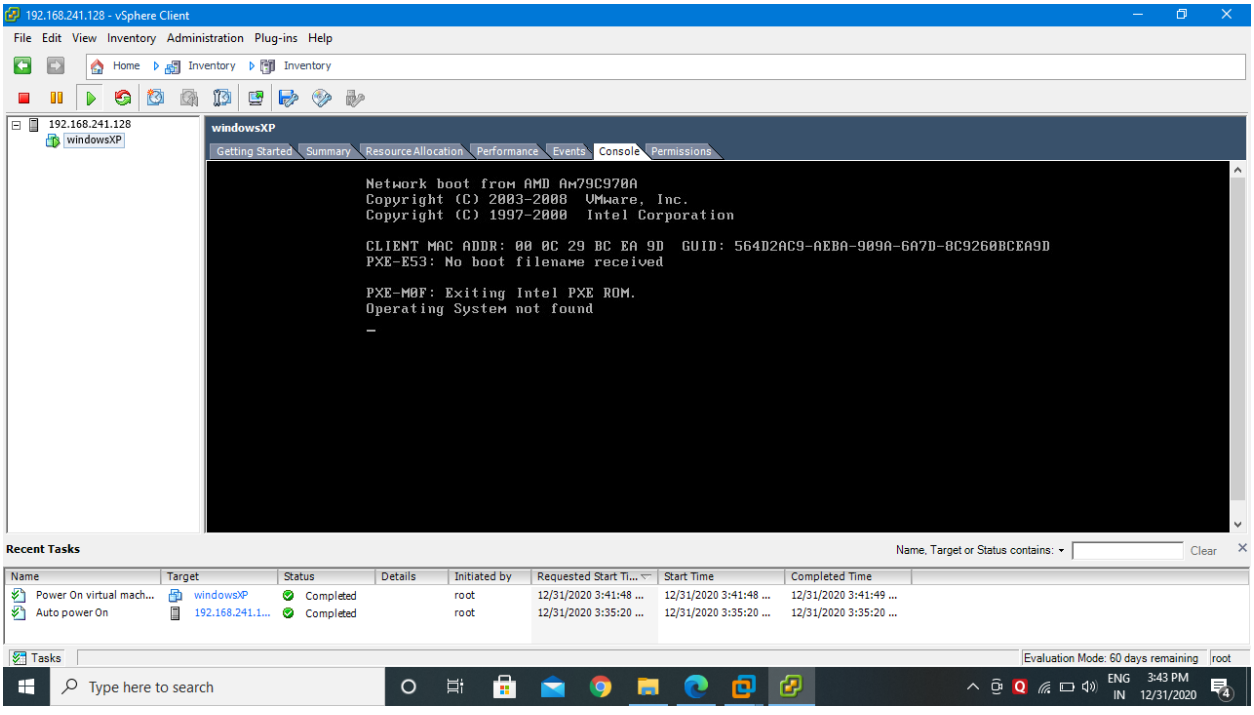

192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
Advanced Options
These advanced options do not usually need to be changed.
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Create a Disk
Advanced Options
Ready to Complete
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
Recent Tasks
Name
Target
Status contains:
Clear
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
4:46 PM
12/30/2020

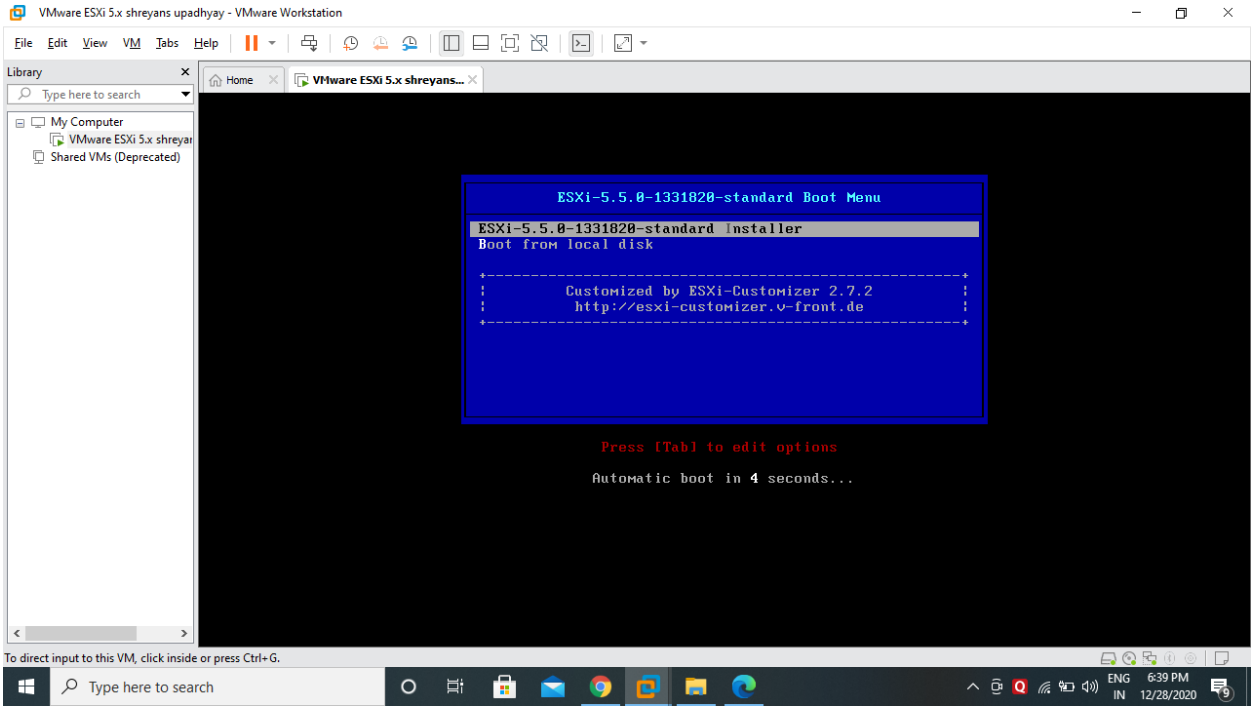

192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
Ready to Complete
Click Finish to start a task that will create the new virtual machine
Virtual Machine Version: 8
Configuration
Name and Location
Storage
Virtual Machine Version
Guest Operating System
CPUs
Memory
Network
SCSI Controller
Select a Disk
Create a Disk
Advanced Options
Ready to Complete
Settings for the new virtual machine:
Name: windowsXP
Host/Cluster: localhost.localdomain
Datastore: datastore1
Guest OS: Microsoft Windows XP Professional (32-bit)
CPUs: 1
Memory: 1024 MB
NICs: 1
NIC 1 Network: VM Network
NIC 1 Type: Flexible
SCSI Controller: VMware Paravirtual
Create disk: New virtual disk
Disk capacity: 8 GB
Disk provisioning: Thick Provision Lazy Zeroed
Datastore: datastore1
Virtual Device Node: IDE (0:0)
Disk mode: Persistent
Edit the virtual machine settings before completion
Creation of the virtual machine (VM) does not include automatic installation of the guest operating system. Install a guest OS on the VM after creating the VM.
Help
< Back
Continue
Cancel
Recent Tasks
Name
Target
Status contains:
Clear
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG
IN
4:48 PM
12/30/2020

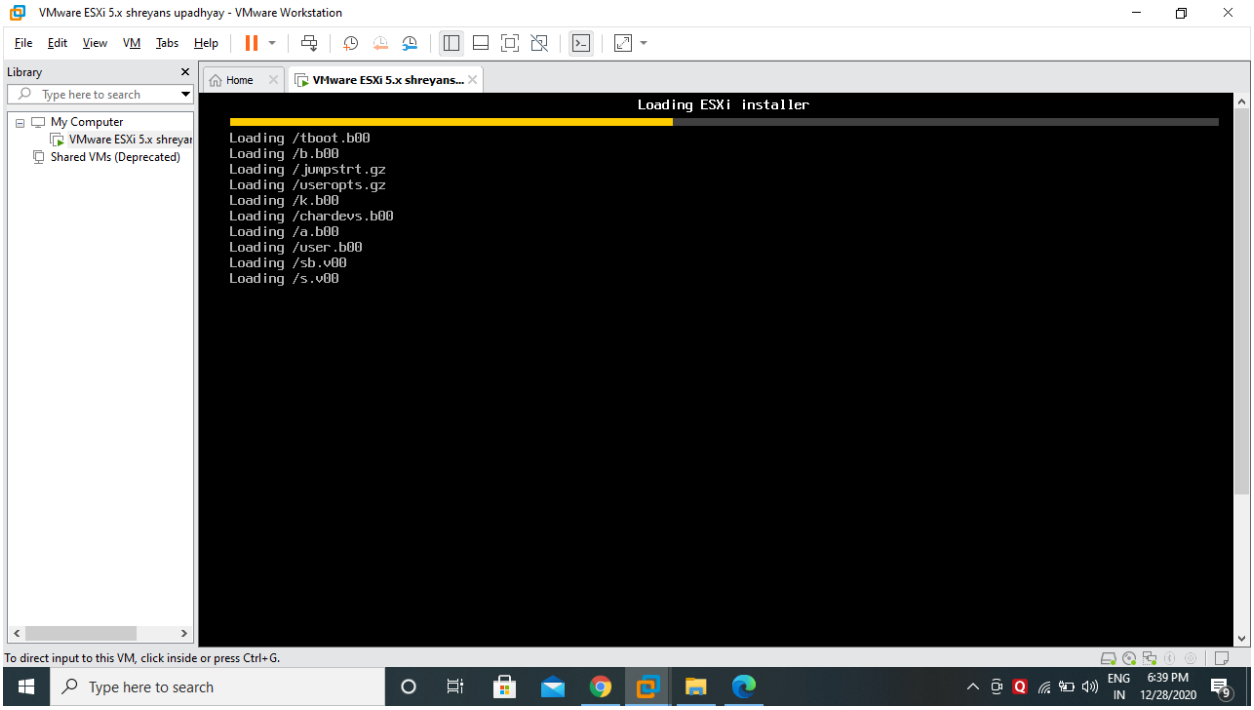

192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
windowsXP - Virtual Machine Properties
Hardware Options Resources
Show All Devices
Add... Remove
Hardware Summary
Memory (adding) 1024 MB
CPUs (adding) 1
Video card (adding) Video card
VMCI device (adding) Restricted
New CD/DVD (adding) Image File
New Floppy (adding) Client Device
New NIC (adding) VM Network
New Hard Disk (adding) Virtual Disk
Device Status
Connected
Connect at power on
Device Type
Client Device
Note: To connect this device, you must power on the virtual machine and then click the Connect CD/DVD button in the toolbar.
Host Device
Datastore ISO File
Browse...
Mode
Passthrough IDE (recommended)
Emulate IDE
Virtual Device Node
IDE (1:0)
Help
Finish
Cancel
Recent Tasks
Name Target
Status contains:
Clear
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG IN 4:52 PM 12/30/2020

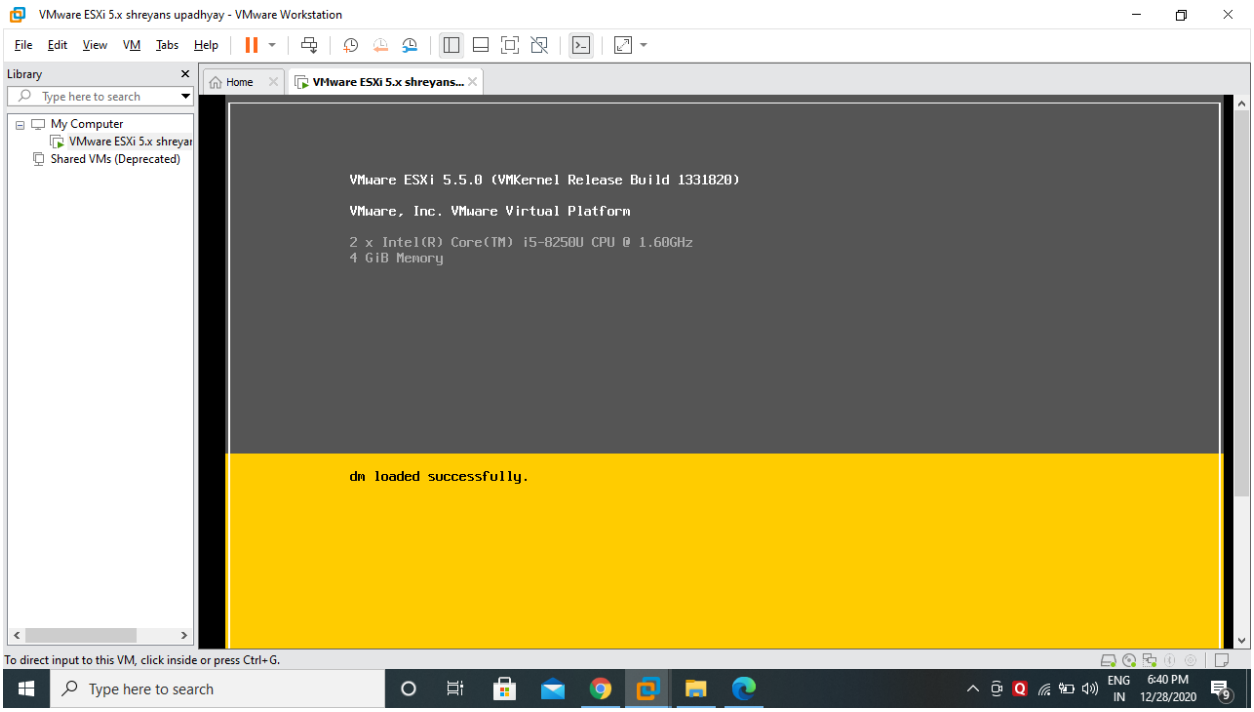

192.168.241.128 - vSphere Client
Create New Virtual Machine
windowsXP - Virtual Machine Properties
Browse Datastores
Look in: Datastores
Name Capacity Free space
datastore1 52.50 GB 51.55 GB
vmimages
Open
Cancel
File type: ISO Image (*.iso)
Browse...
Finish
Cancel
Recent Tasks
Tasks
Evaluation Mode: 60 days remaining
Type here to search
ENG IN 4:53 PM 12/30/2020


192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug
Home Inventory
192.168.241.128
Create New Virtual Machine
windowsXP - Virtual Machine Properties
Hardware Options Resources
Show All Devices
Add... Remove
Hardware Summary
Memory (adding) 1024 MB
CPUs (adding) 1
Device Status
Connected
Connect at power on
Device Type
Browse Datastores
Look in: datastore1
Name File Size LastModified
.sdd.sf
WXPVOL_EN.iso 690 MB 12/30/2020 4:27:31 PM
Browse...
OK
Cancel
File type: ISO Image (*.iso)
Help
Finish
Cancel
Recent Tasks
Name Target
Status contains:
Clear
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG IN 4:57 PM 12/30/2020


192.168.241.128 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
192.168.241.128
windowsXP
windowsXP
Getting Started Summary Resource Allocation Performance Events Console Permissions
Network boot from AMD Am79C970A
Copyright (C) 2003-2008 VMware, Inc.
Copyright (C) 1997-2000 Intel Corporation
CLIENT MAC ADDR: 00 0C 29 BC EA 9D GUID: 564D2AC9-AEBA-909A-6A7D-8C9260BCEA9D
PXE-E53: No boot filename received
PXE-M0F: Exiting Intel PXE ROM.
Operating System not found
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 12/31/2020 3:41:48 ... 12/31/2020 3:41:48 ... 12/31/2020 3:41:49 ...
Auto power On 192.168.241.1... Completed root 12/31/2020 3:35:20 ... 12/31/2020 3:35:20 ... 12/31/2020 3:35:20 ...
Tasks
Evaluation Mode: 60 days remaining
root
Type here to search
ENG IN 3:43 PM 12/31/2020


VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
ESXi-5.5.0-1331820-standard Boot Menu
ESXi-5.5.0-1331820-standard Installer
Boot from local disk
Customized by ESXi-Customizer 2.7.2
http://esxi-customizer.v-front.de
Press [Tab] to edit options
Automatic boot in 4 seconds...
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
6:39 PM
12/28/2020


VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
Loading ESXi installer
Loading /tboot.b00
Loading /b.b00
Loading /jumpstrt.gz
Loading /useropts.gz
Loading /k.b00
Loading /chardevs.b00
Loading /a.b00
Loading /user.b00
Loading /sb.v00
Loading /s.v00
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
6:39 PM
12/28/2020

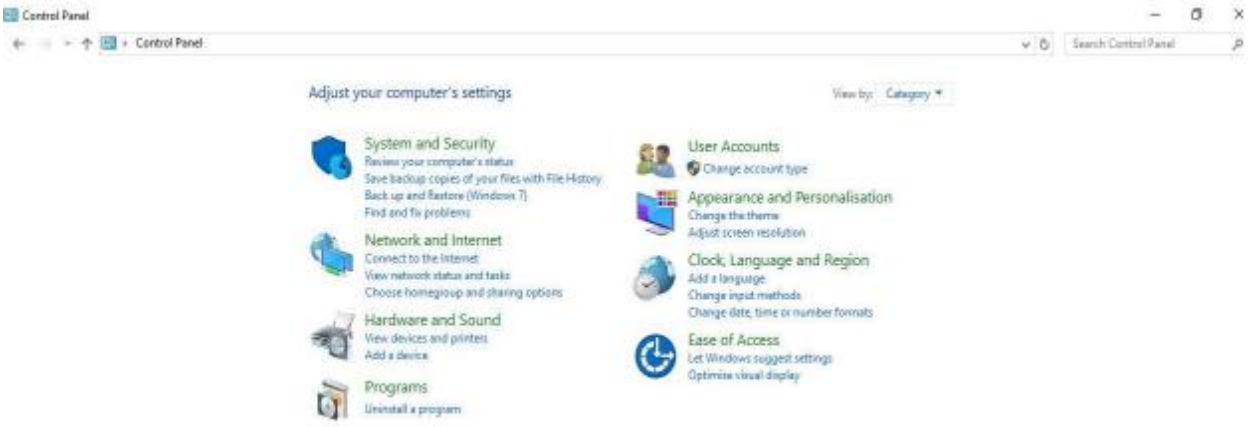

VMware ESXi 5.x shreyans upadhyay - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
VMware ESXi 5.x shreyar
Shared VMs (Deprecated)
Home
VMware ESXi 5.x shreyans...
VMware ESXi 5.5.0 (VMKernel Release Build 1331820)
VMware, Inc. VMware Virtual Platform
2 x Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz
4 GiB Memory
dm loaded successfully.
To direct input to this VM, click inside or press Ctrl+G.
Type here to search
ENG
IN
6:40 PM
12/28/2020


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

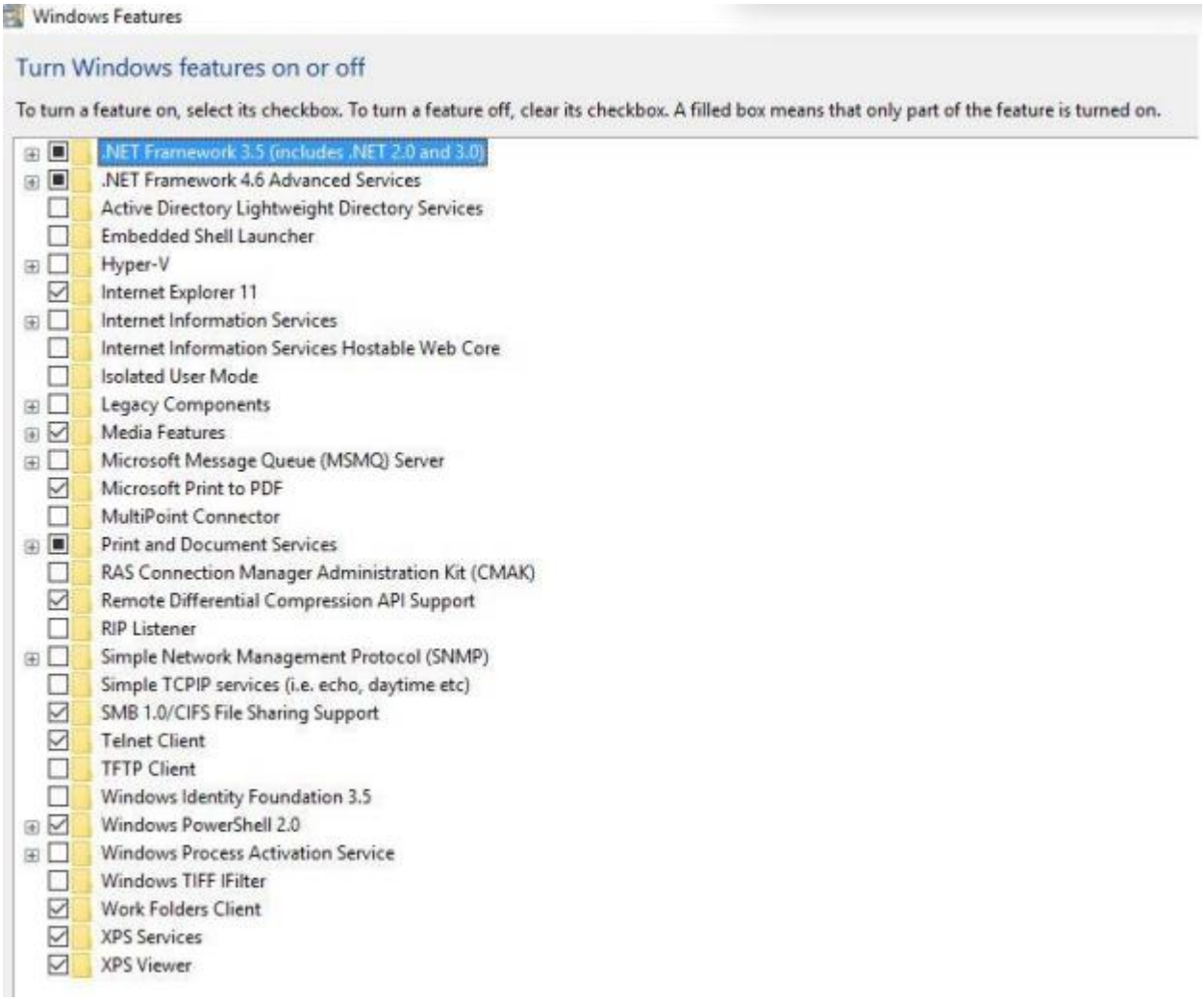
Practical No 6

Native Virtualization using HyperV

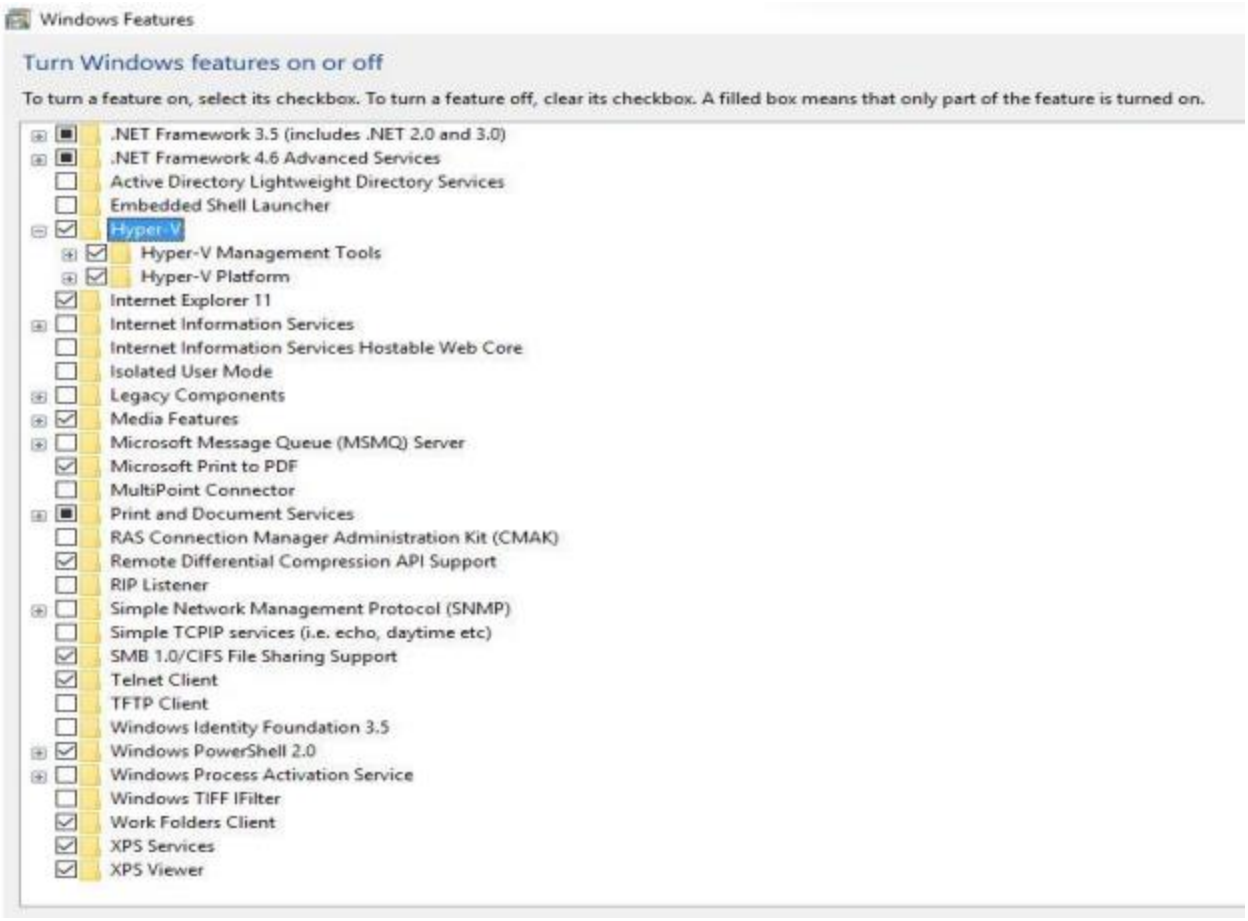
First we have to uninstall vmware software if already installed on computer because the VMware Workstation installer does not support running on a Hyper-V virtual machine. After uninstalling VMware, we can proceed to next step - go to control panel and click on uninstall a program



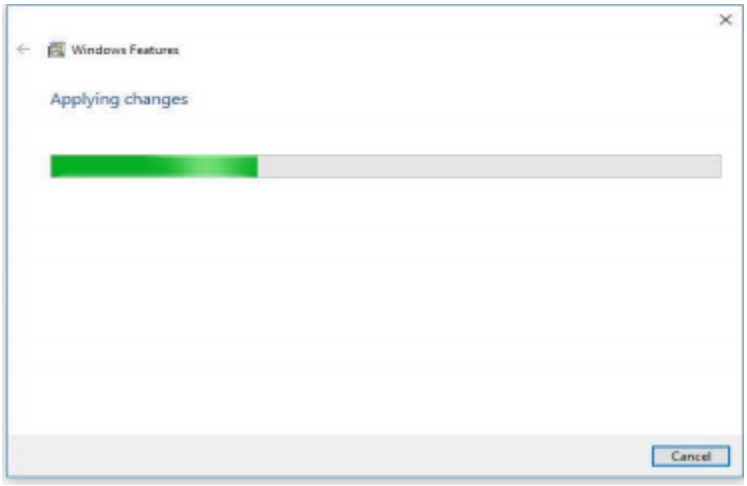
Click on Turn windows features on or off

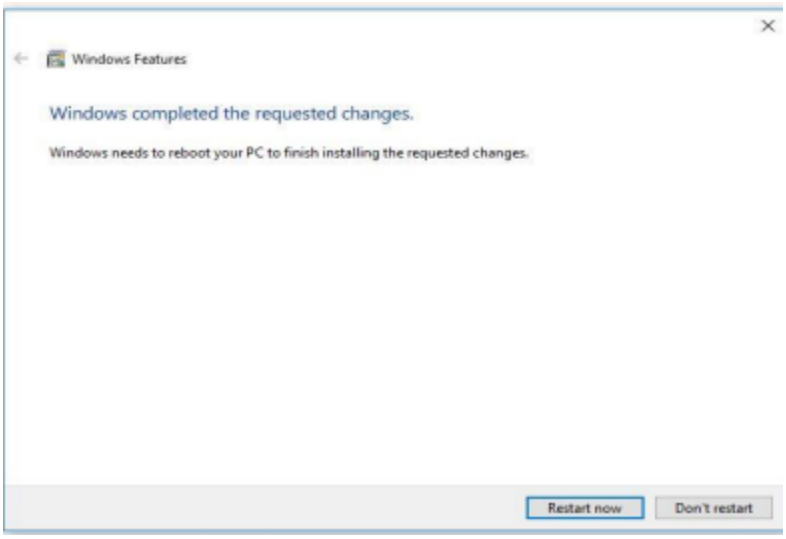


Now in windows features check on Hyper-V option

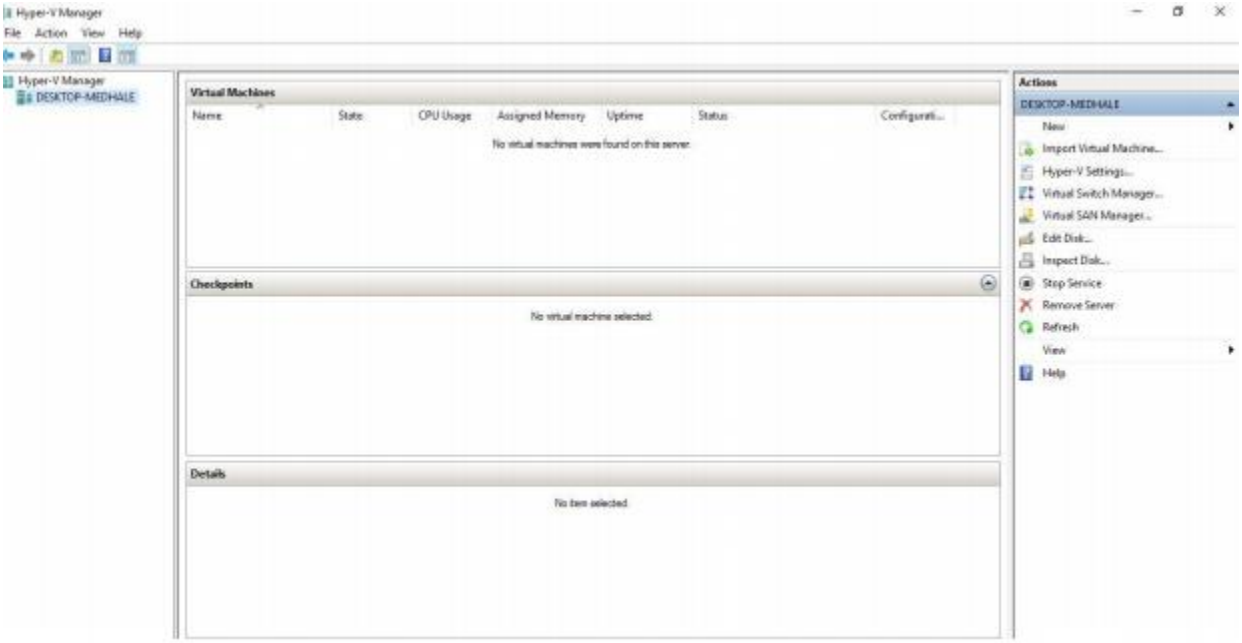


Click on OK button



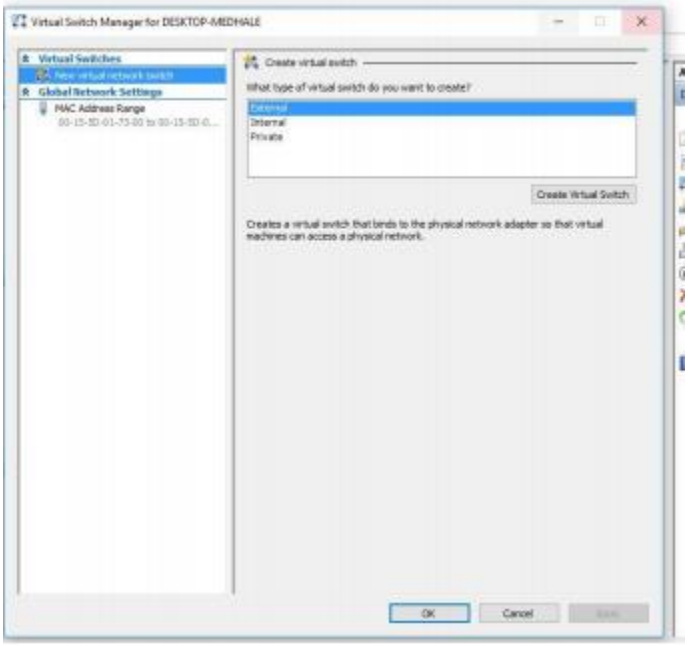


Click on Restart Now, after Retsart search for Hyper-V in search box

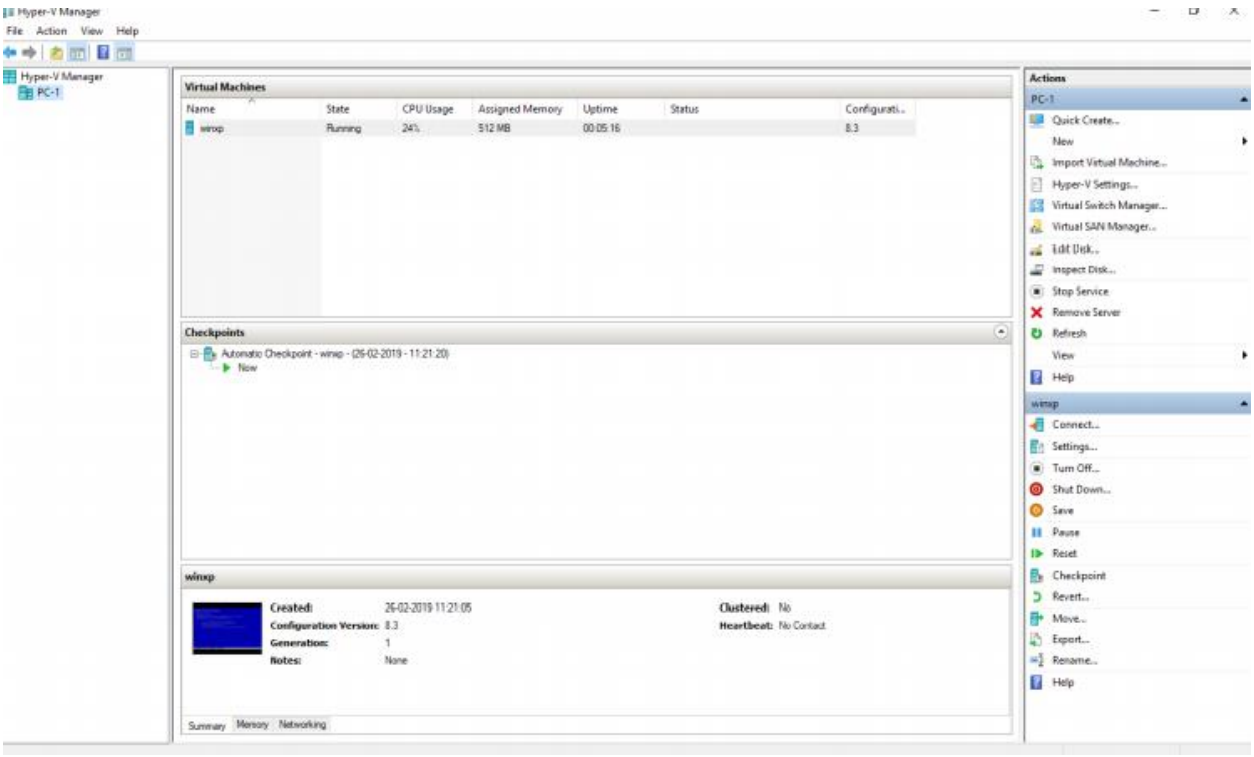


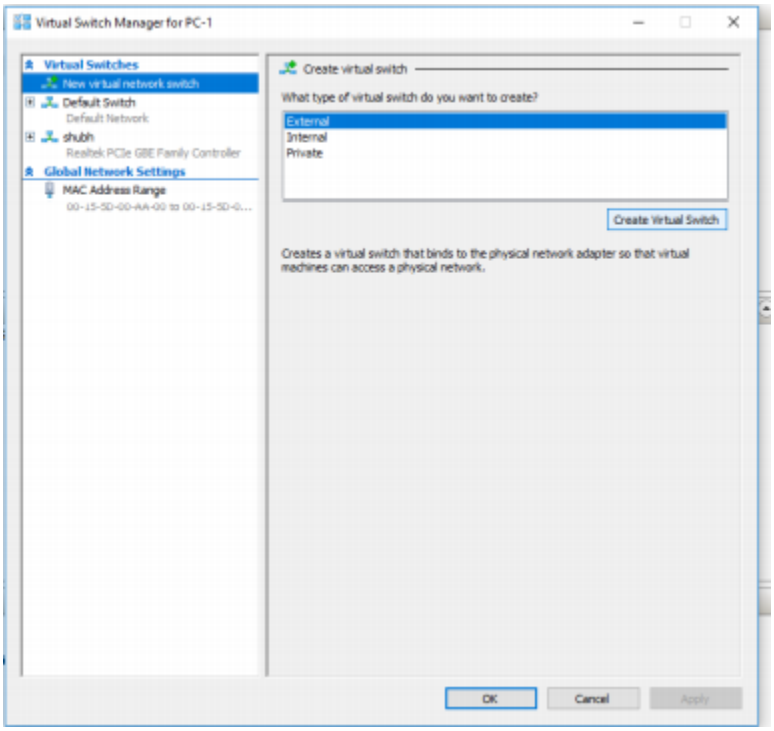
For creating virtual machine, first we have to create virtual swtich, click on virtual switch manager option

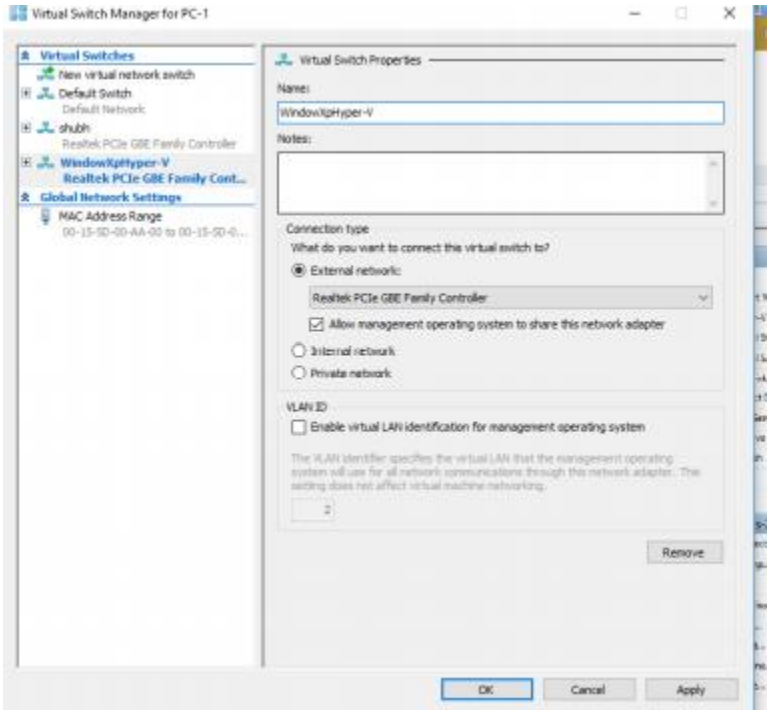
Select External as connection type and click on create virtual switch



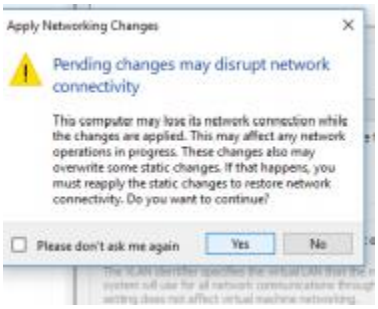
Give name to the virtual switch and click on Apply button



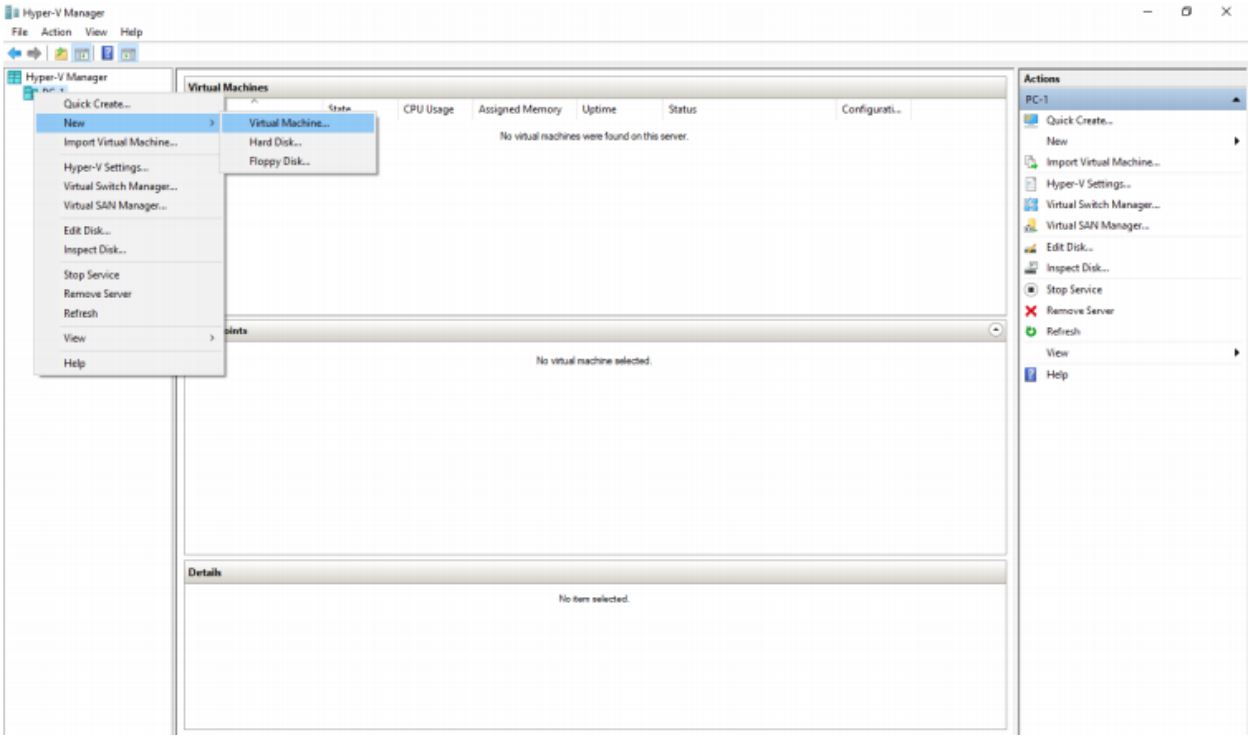




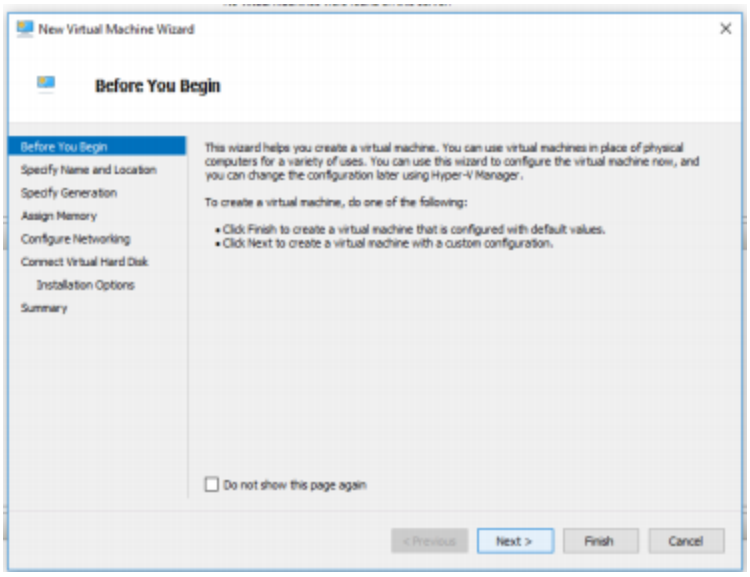
After clicking Apply button, it will show the warning about the connection, click on Yes



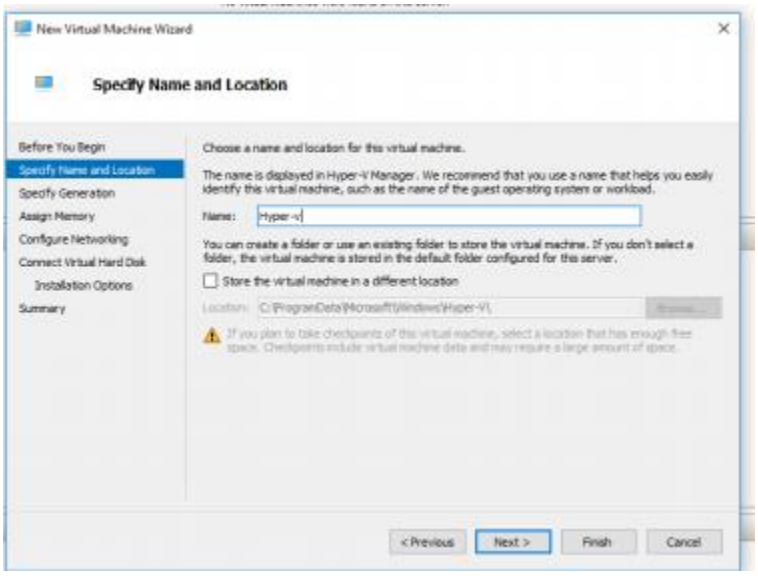
Right click on Server and select New Virtual machine



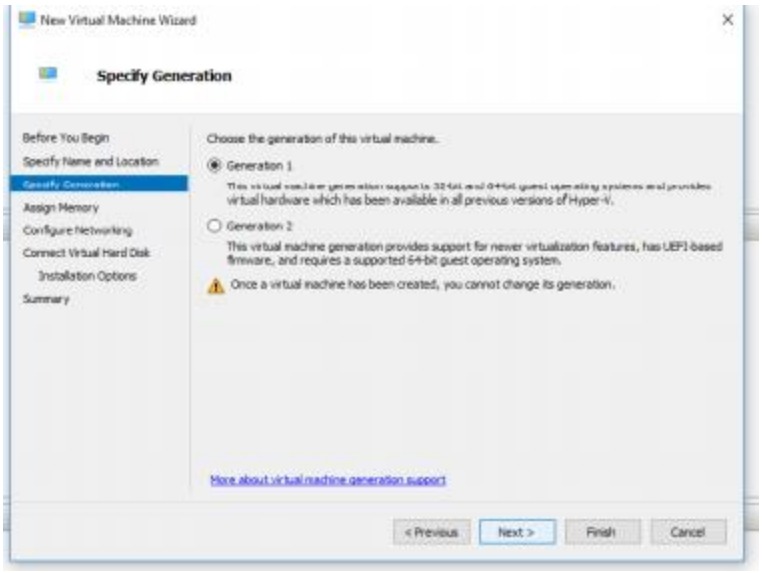
Click on Next button



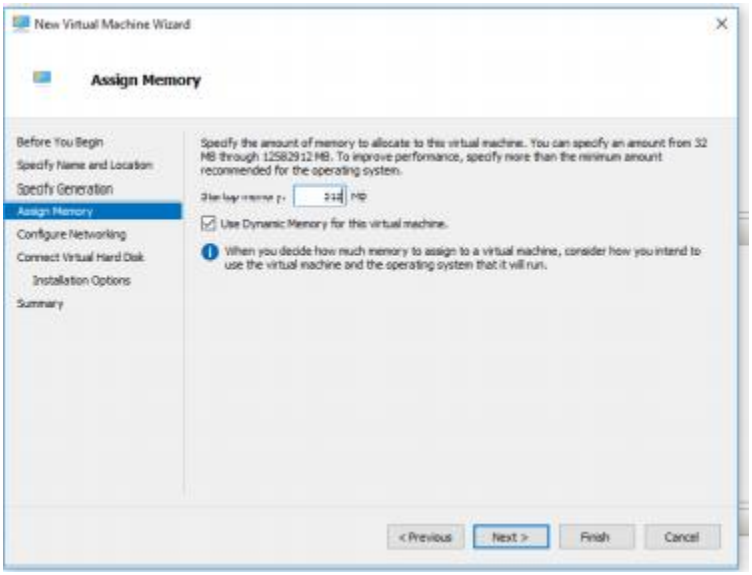
Provide the name to the virtual Machine and click on Next



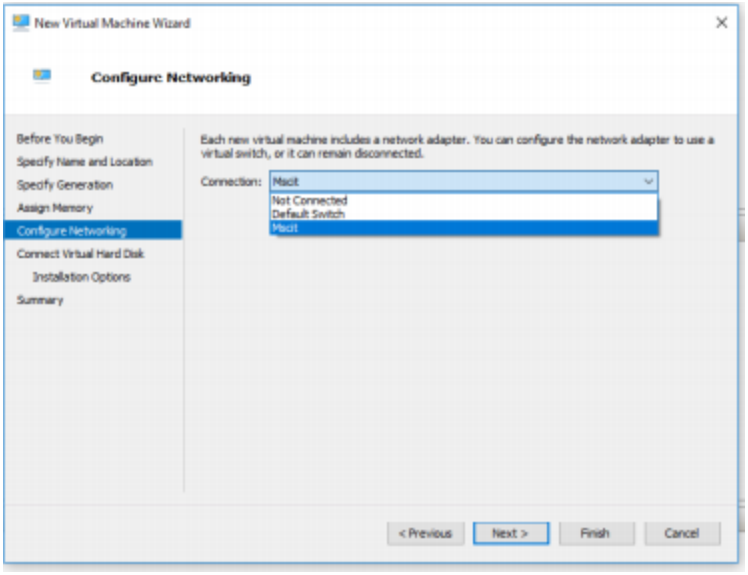
Specify Generation: Generation 1



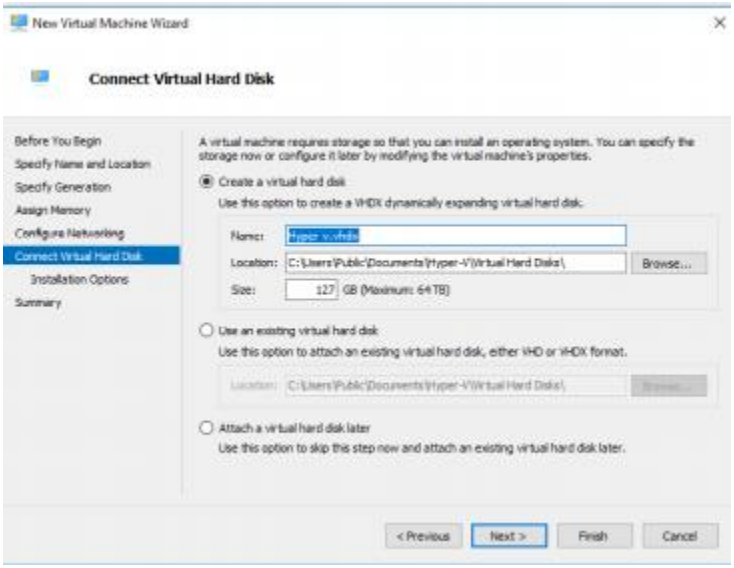
Tick on use Dynamic Memory for this Virtual Machine



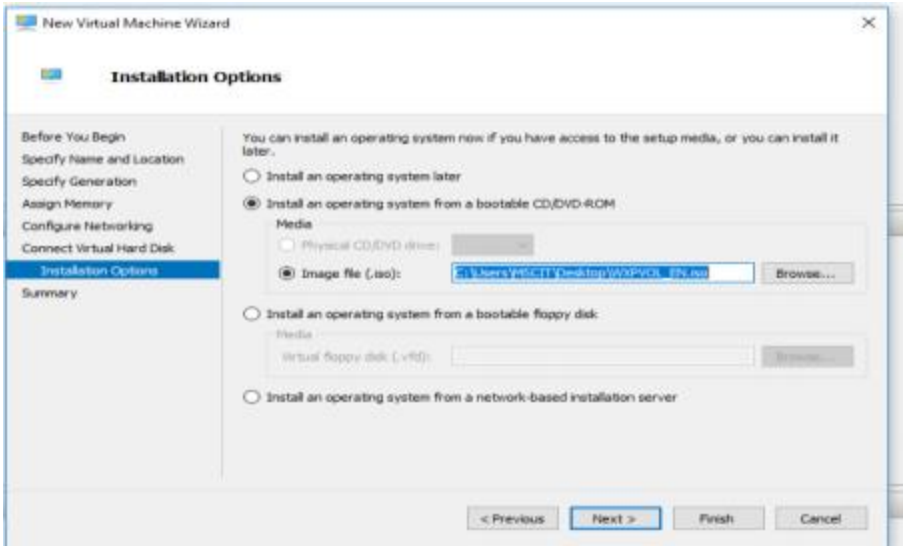
Select the switch which was created earlier from the drop-down list and click NEXT



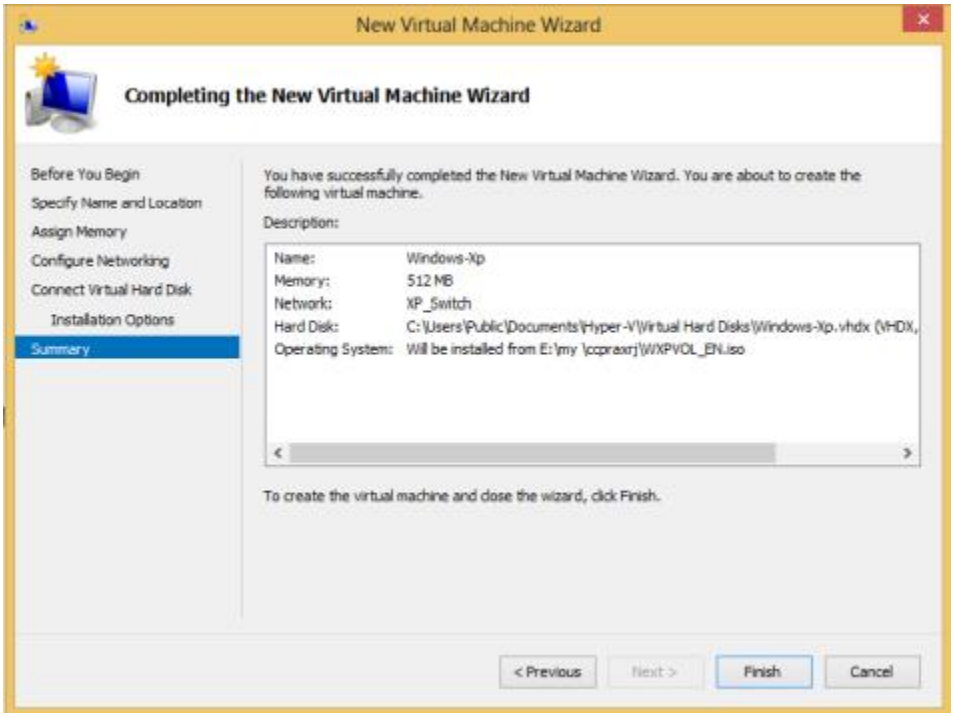
Description of virtual machine and location where it will store virtual machine related files and size require for this machine click on next



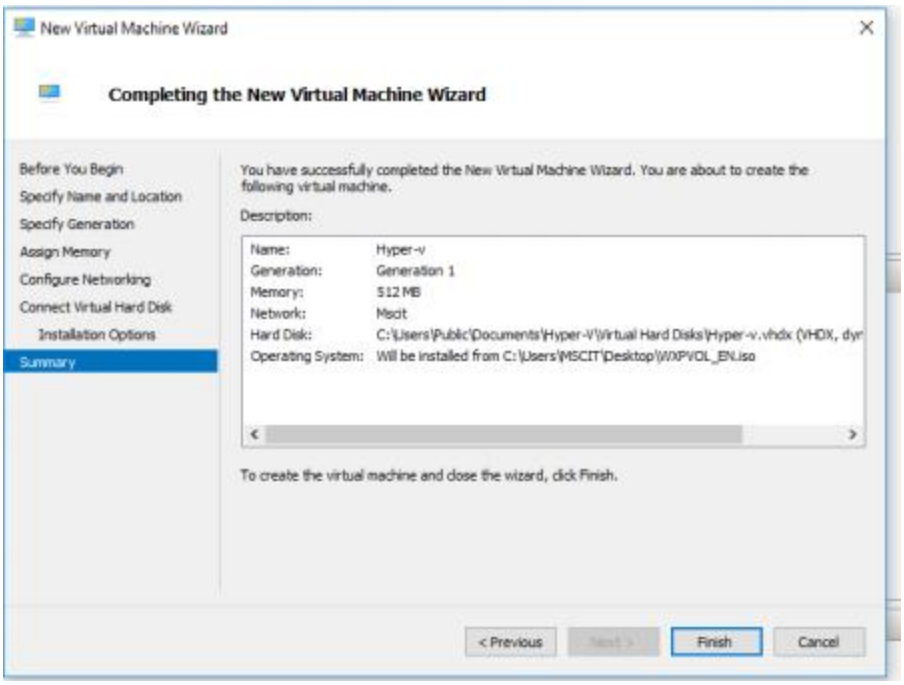
New virtual machine wizard panel will appear, where we will choose operating system which we want to install on virtual machine select install an operating system from boot CD/DVD-ROM and then select Image file(.iso) and browse our OS iso file then click on next button



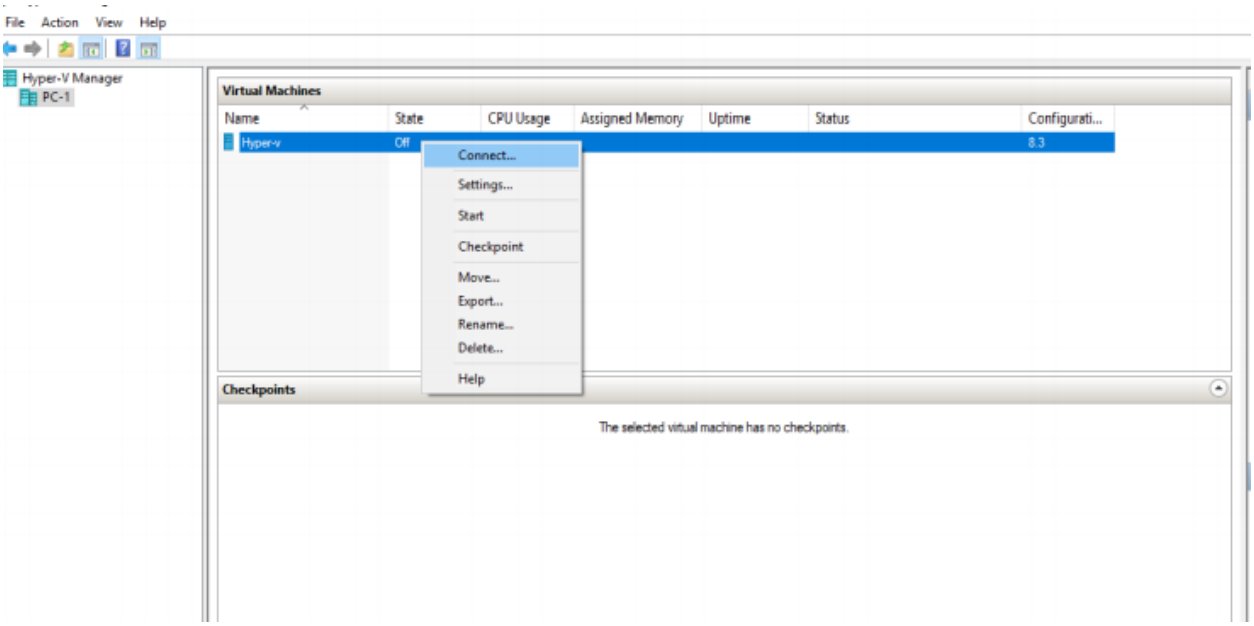
Summary report will be generated about virtual machine then click on Finish button



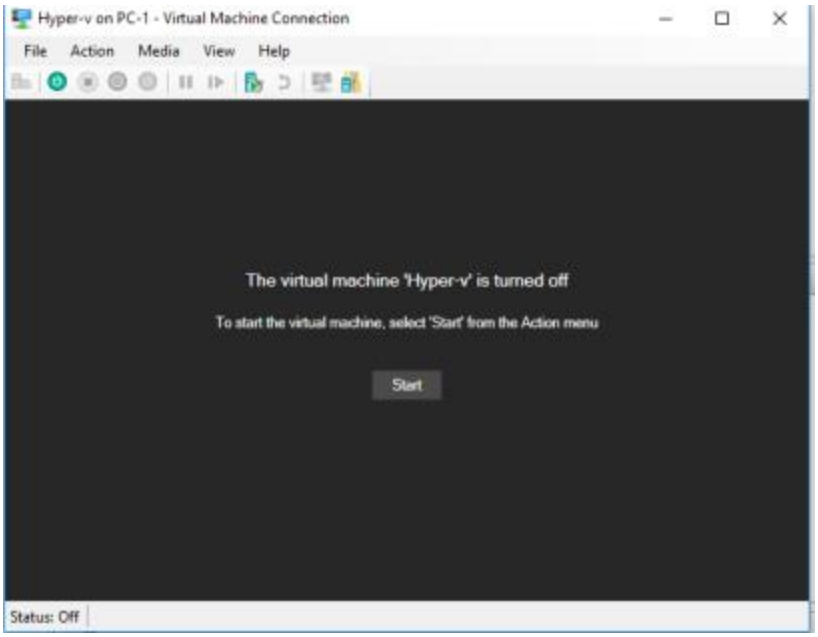
Click Finish



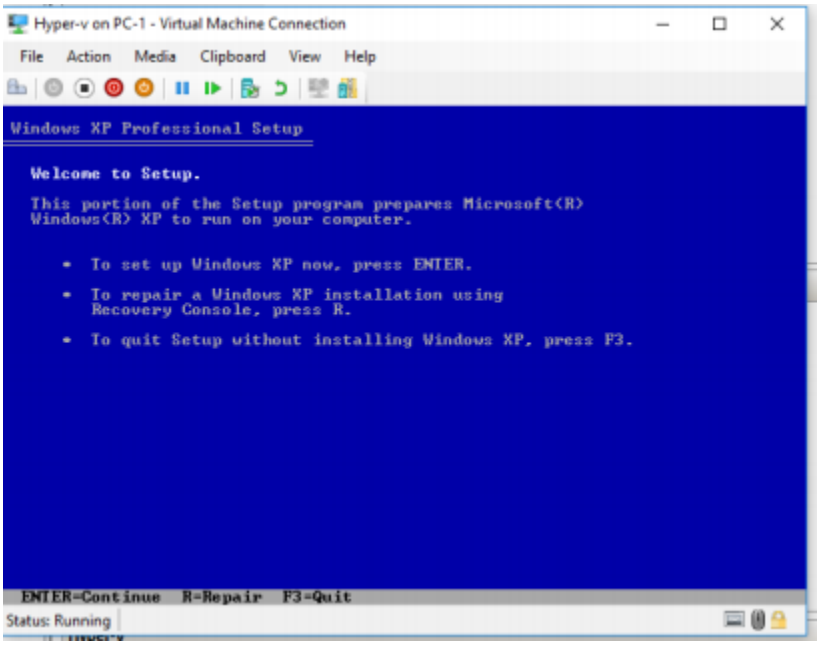
Right click on virtual machine and click on connect option



Turn Virtual Machine ON



VM will Start in below screen



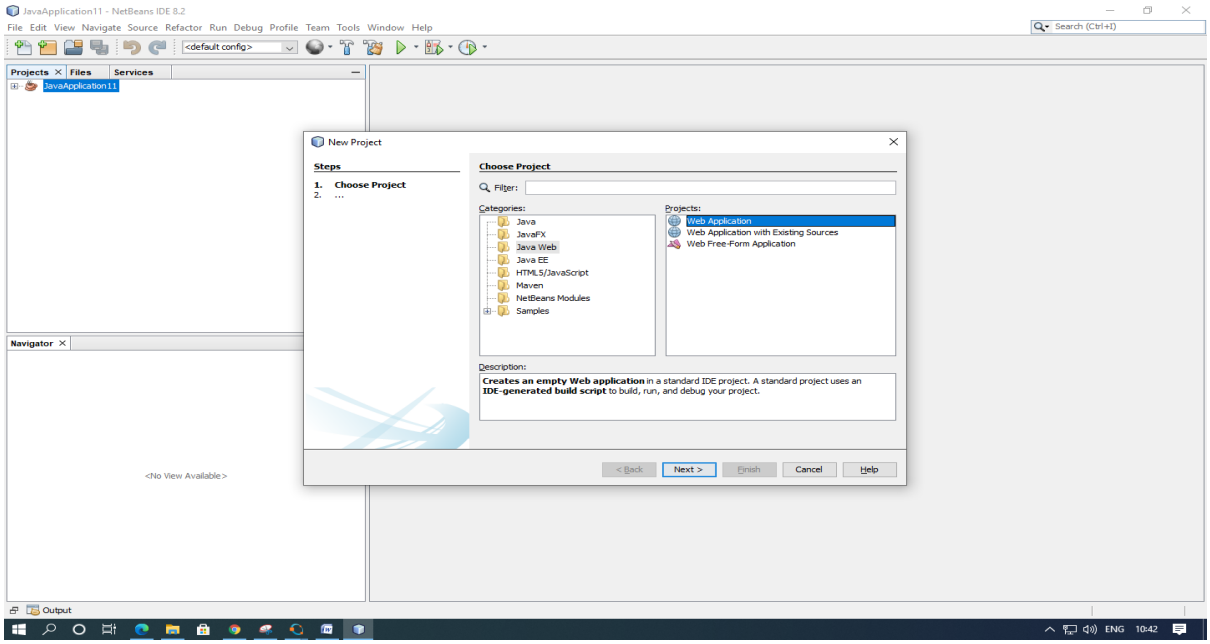
Practical No 8

Implementing “Big” Web Services

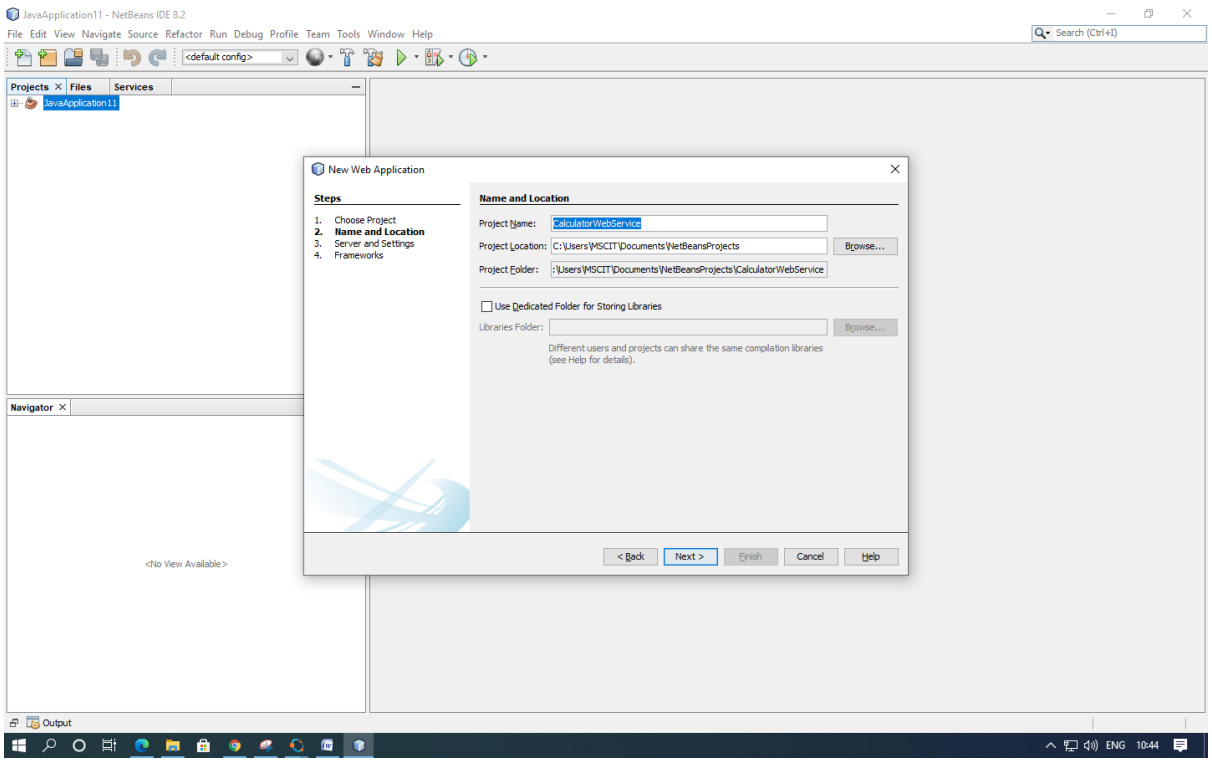
1) Creating a Web Service

A. Choosing a Container: Open NetBeans IDE 8.2

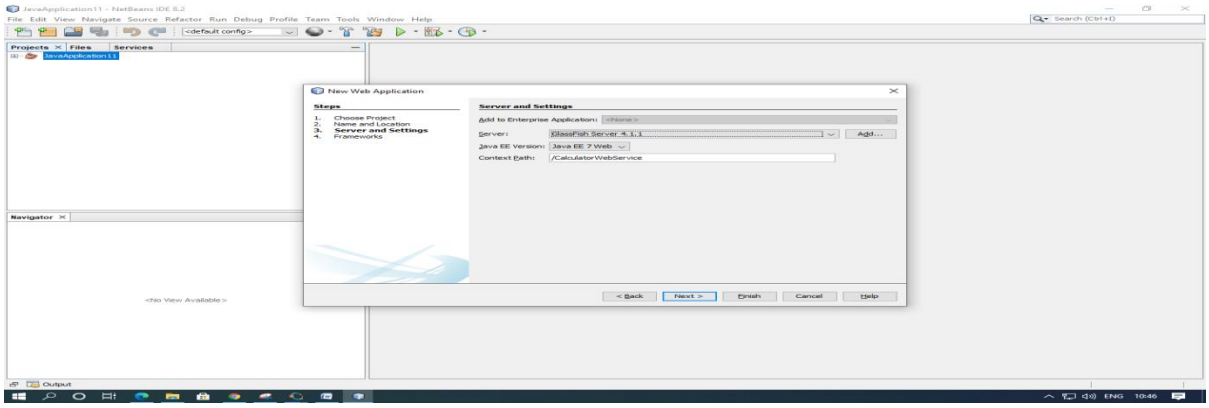
1. Choose File > New Project. Select Web Application from the Java Web.



2. Name the project “CalculatorWebService”. Select a location for the project. Click Next.

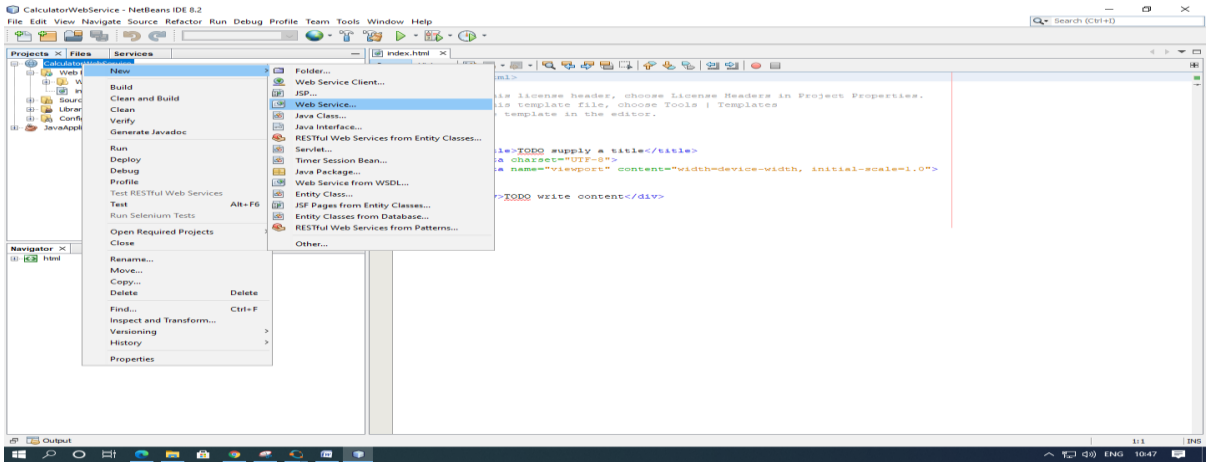


3. Select your server and Java EE version and click Finish. (Do not do anything in Framework)

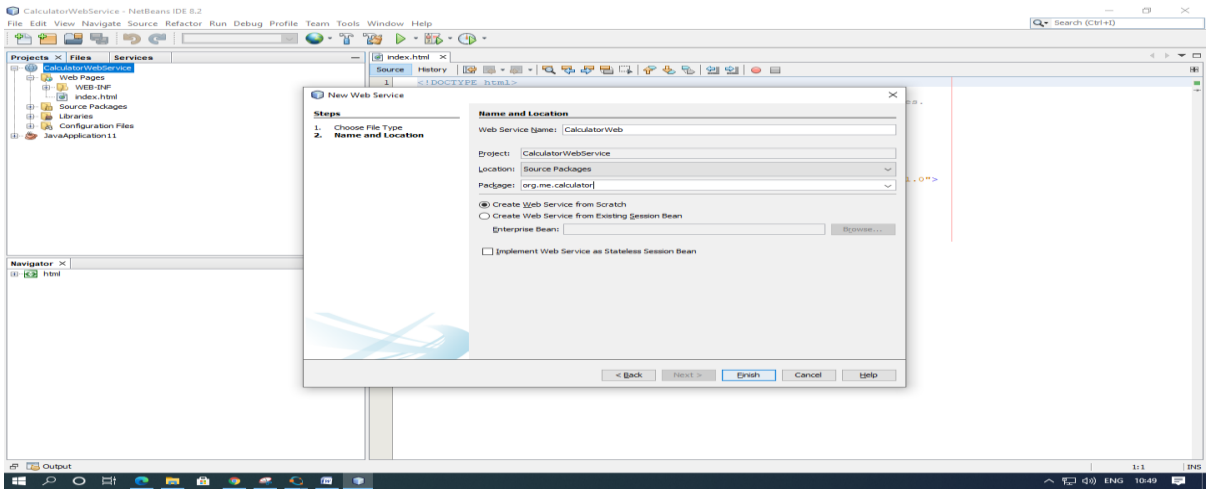


B. Creating a Web Service from a Java Class

1. Right-click the “CalculatorWebService” node and choose New > Web Service.



2. Name the web service “CalculatorWeb” and type org.me.calculator in Package. Leave Create Web Service from Scratch selected.

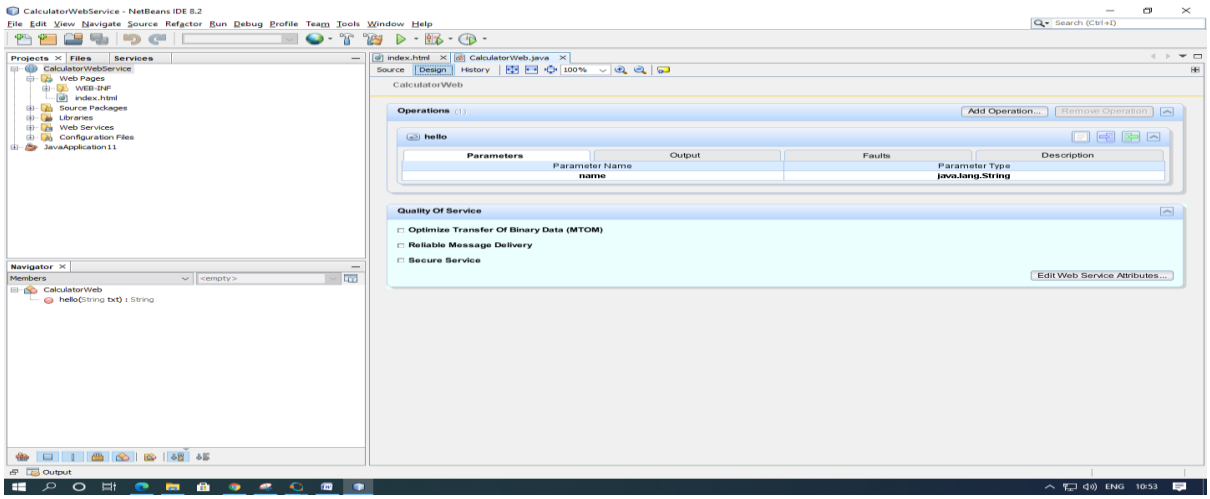


3. Click Finish. The Projects window displays the structure of the new web service and the source code is shown in the editor area.

2) Adding an Operation to the Web Service : The goal of this exercise is to add to the web service an operation that adds two numbers received from a client. The NetBeans IDE provides a dialog for adding an operation to a web service. You can open this dialog either in the web service visual designer or in the web service context menu.

A. To add an operation to the web service:

1. Change to the Design view in the editor.

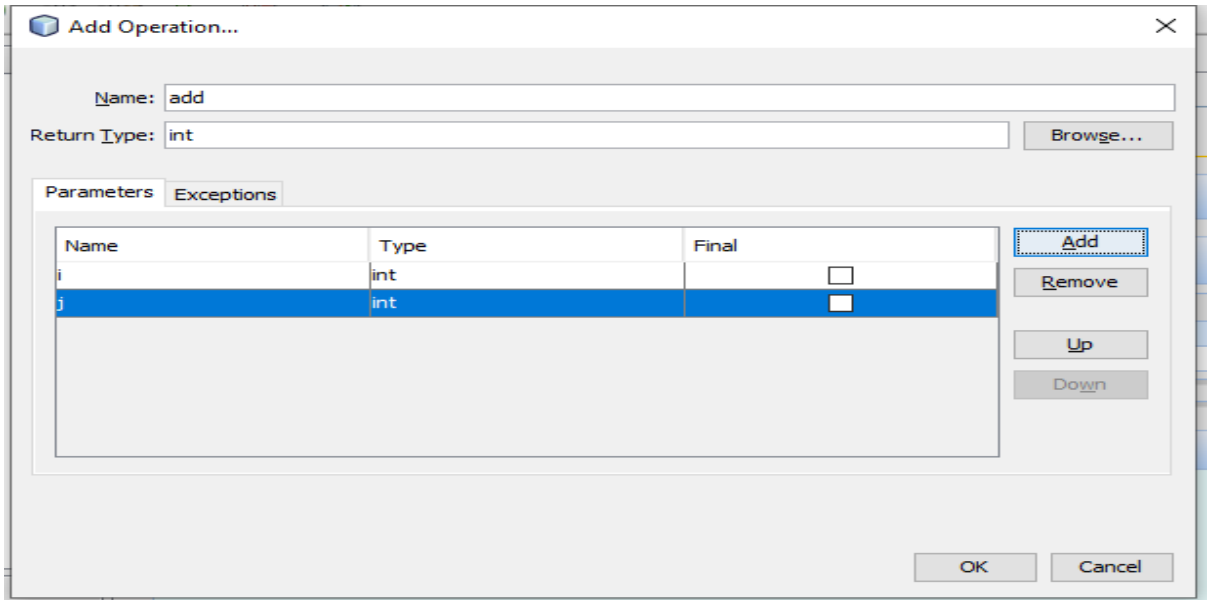


2. Click Add Operation in either the visual designer or the context menu. The Add Operation dialog opens.

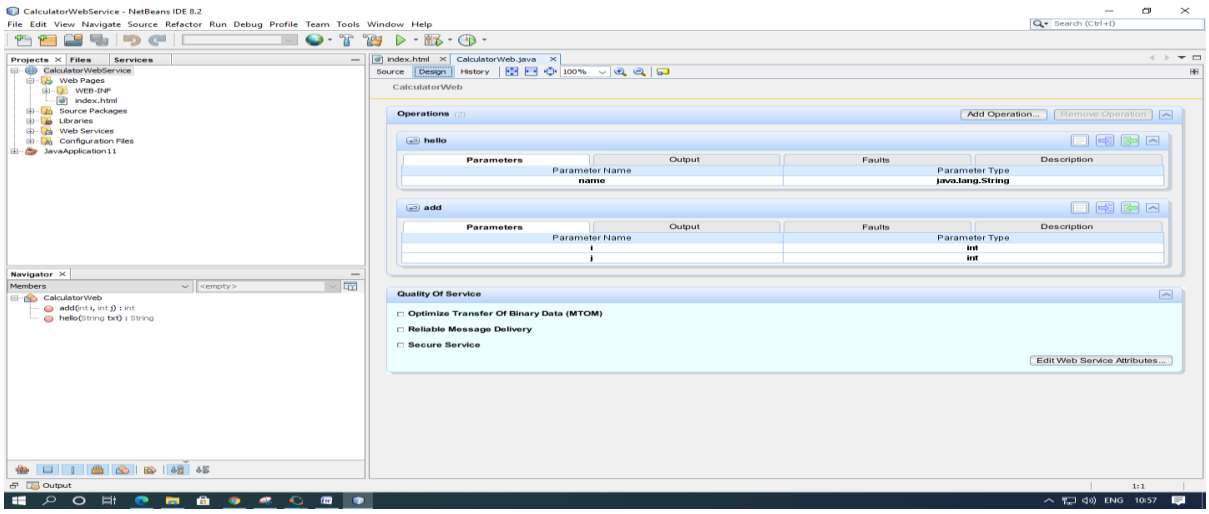
3. In the upper part of the Add Operation dialog box, type add in Name and type int in the Return Type drop-down list.

4. In the lower part of the Add Operation dialog box, click Add and create a parameter of type int named i.

5. Click Add again and create a parameter of type int called j. You now see the following:

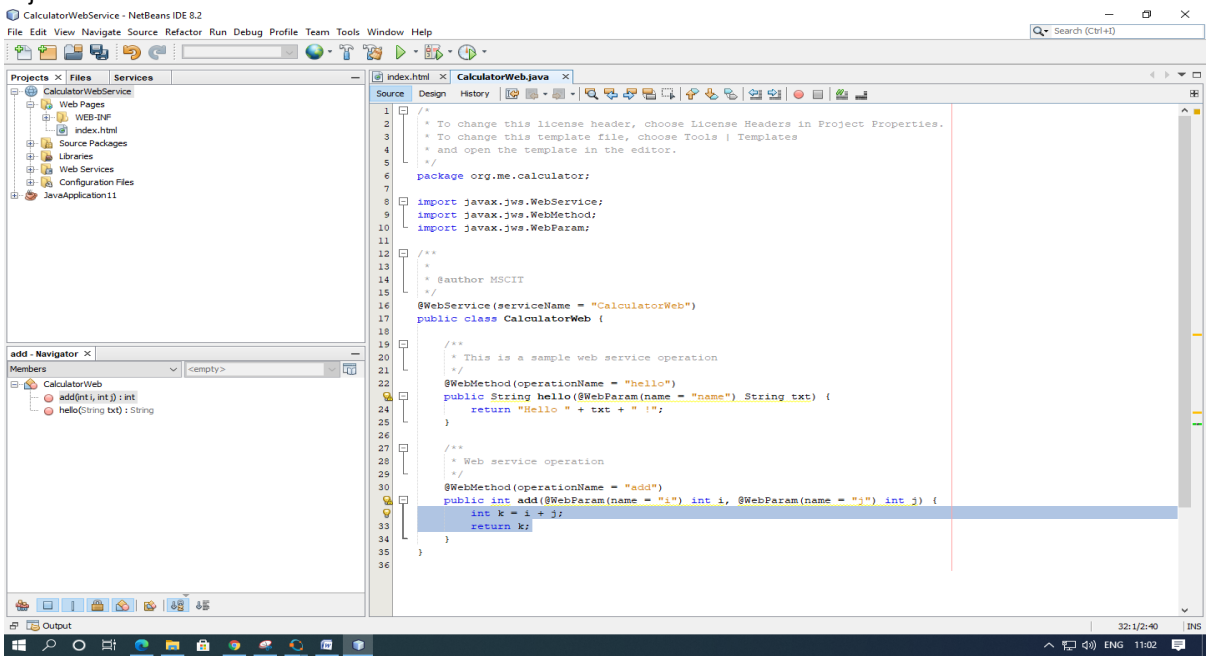


6. Click OK at the bottom of the Add Operation dialog box. You return to the editor.
7. The visual designer now displays the following:



8. Click Source. And code the following.

```
@WebMethod(operationName = "add")
public int add(@WebParam(name = "i") int i, @WebParam(name = "j") int j) {
    int k = i + j;
    return k;
}
```

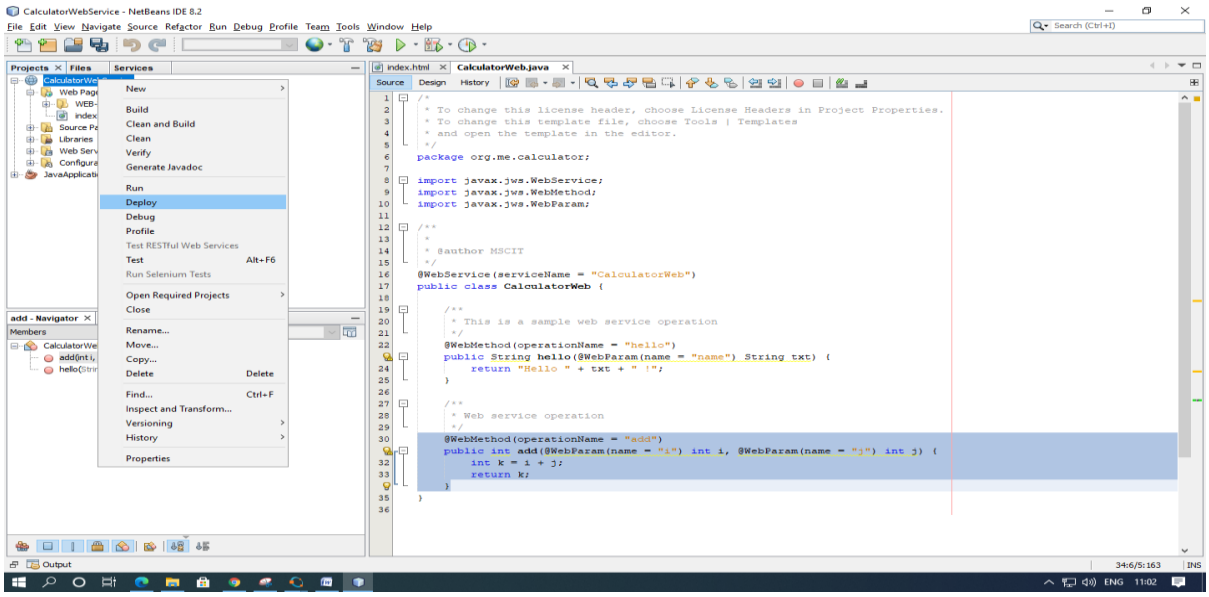


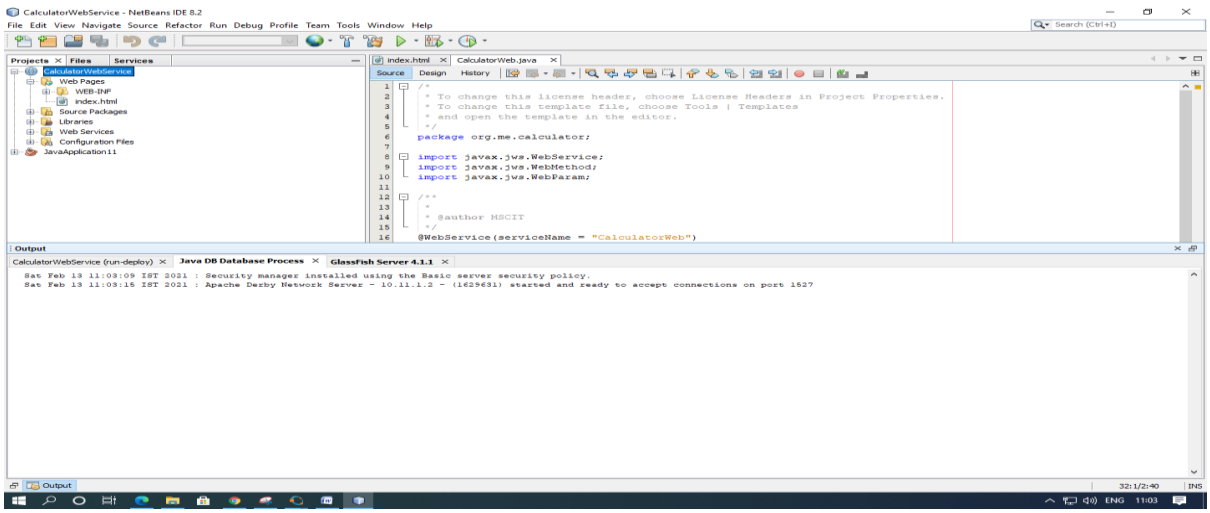
3) Deploying and Testing the Web Service

After you deploy a web service to a server, you can use the IDE to open the server's test client, if the server has a test client. The GlassFish and WebLogic servers provide test clients.

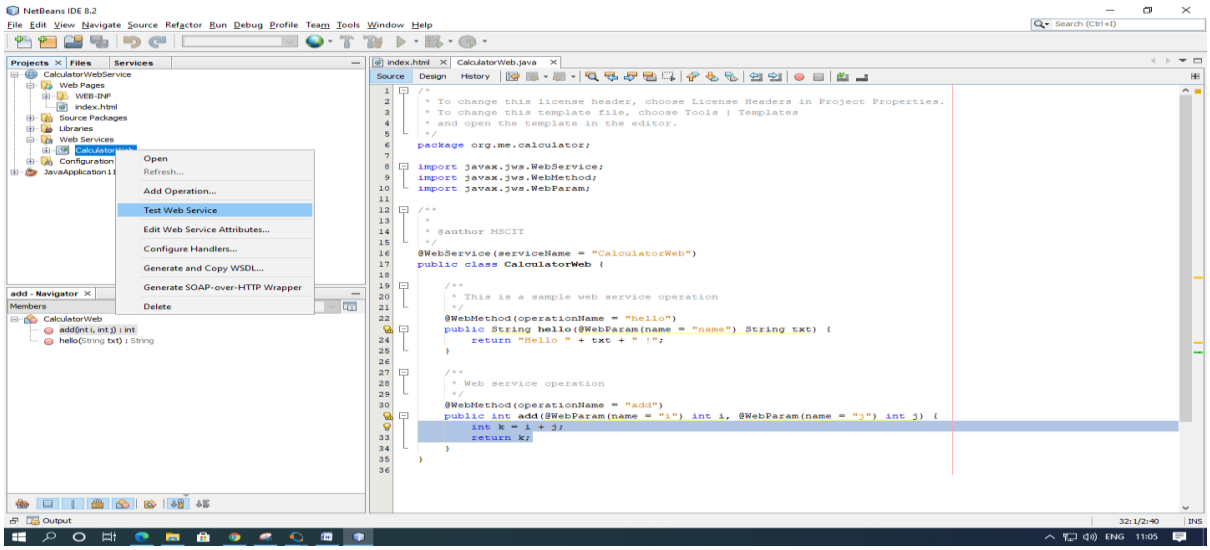
A. To test successful deployment to a GlassFish or WebLogic server:

1. Right-click the project and choose Deploy. The IDE starts the application server, builds the application, and deploys the application to the server

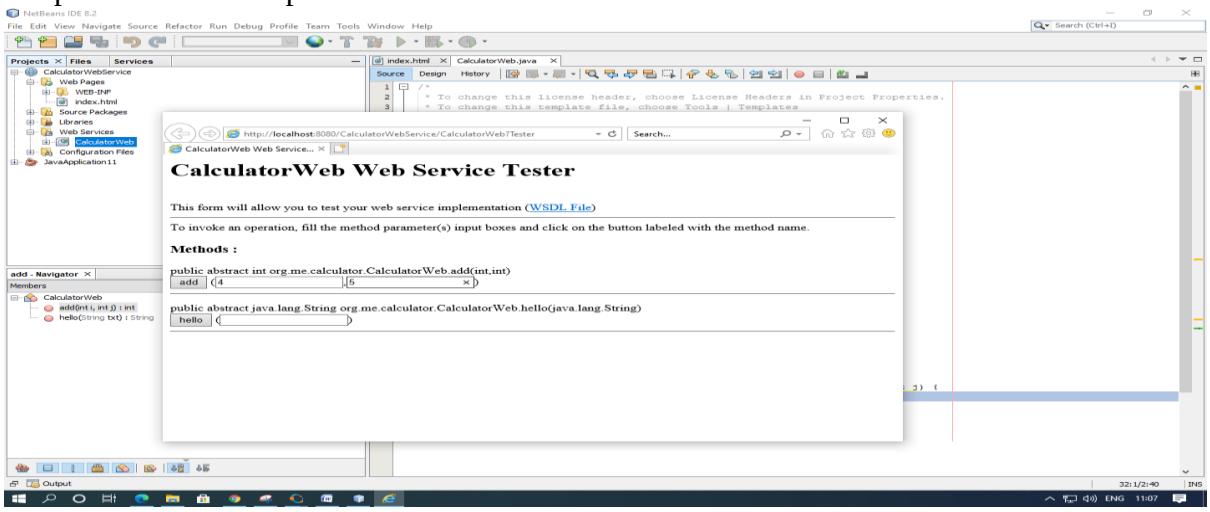




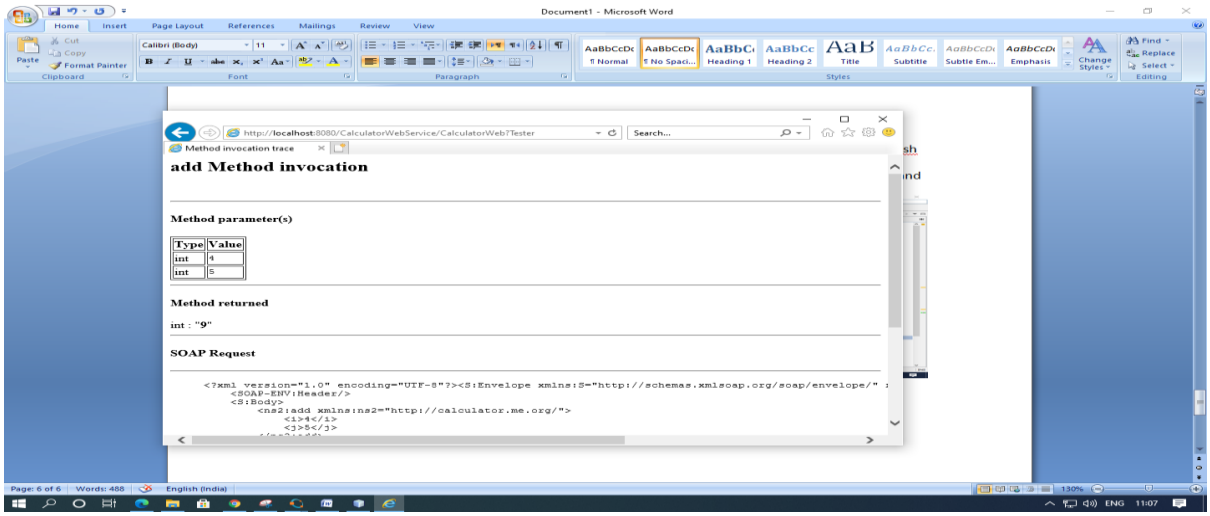
2. In the IDE's Projects tab, expand the Web Services node of the “CalculatorWebService” project. Right-click the “CalculatorWeb” node, and choose Test Web Service.



3. The IDE opens the tester page in your browser, if you deployed a web application to the GlassFish server.
4. If you deployed to the GlassFish server, type two numbers in the tester page, as shown below and press enter for output.



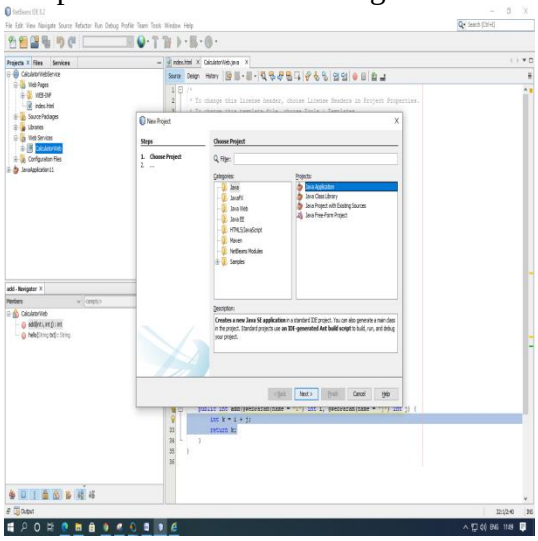
5. The sum of the two numbers is displayed:

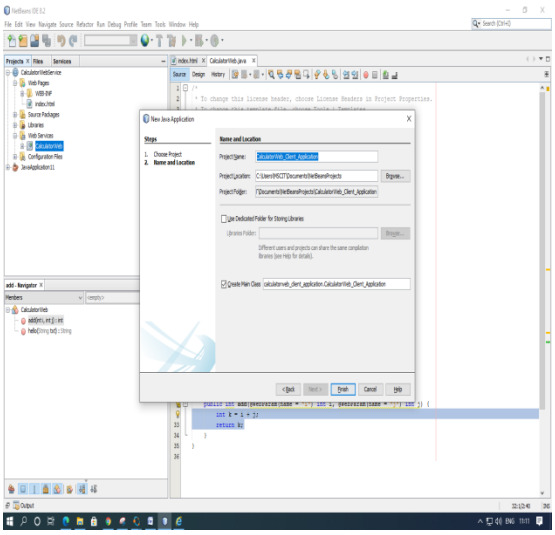


4) Consuming the Web Service
Now that you have deployed the web service, you need to create a client to make use of the web service's add method.

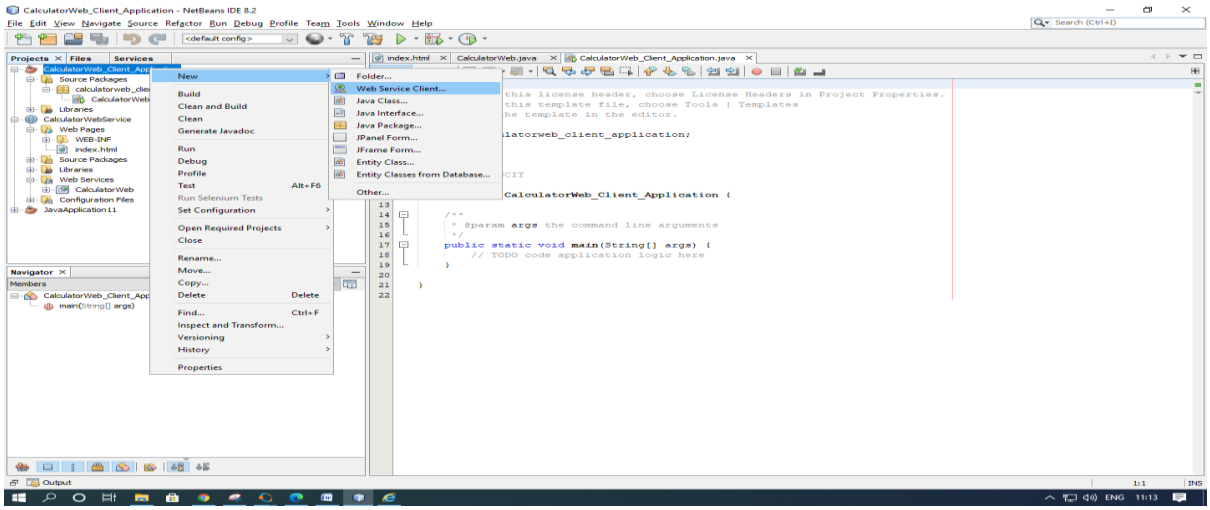
1. Client: Java Class in Java SE Application

1. Choose File > New Project. Select Java Application from the Java category.
Name the project “CalculatorWeb_Client_Application”. Leave Create Main Class selected and accept all other default settings. Click Finish.

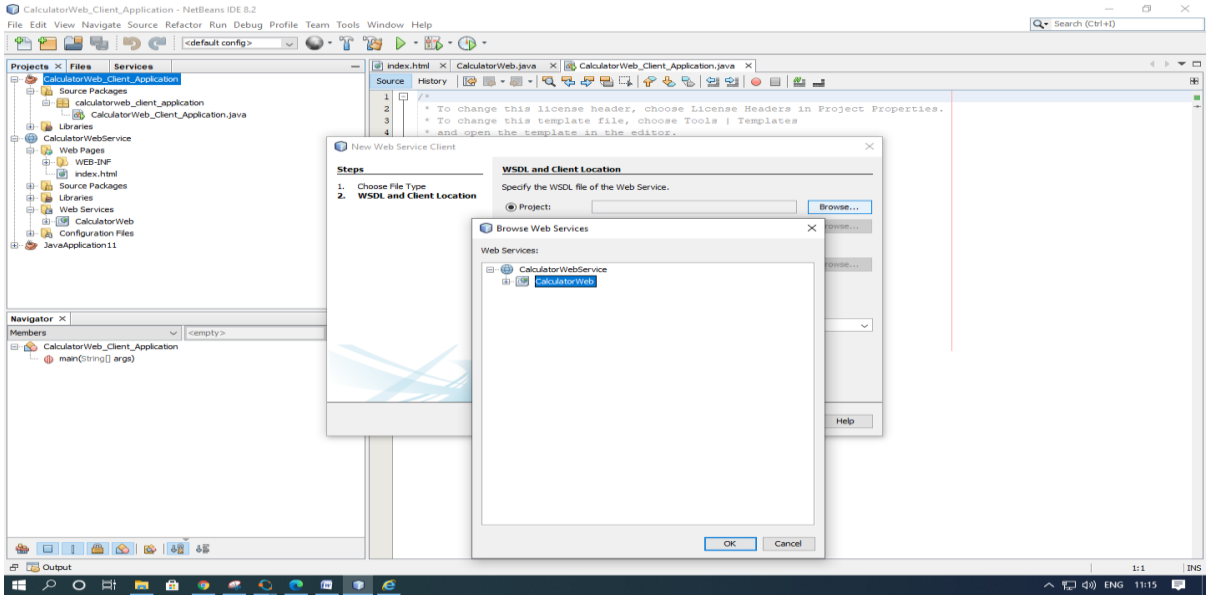




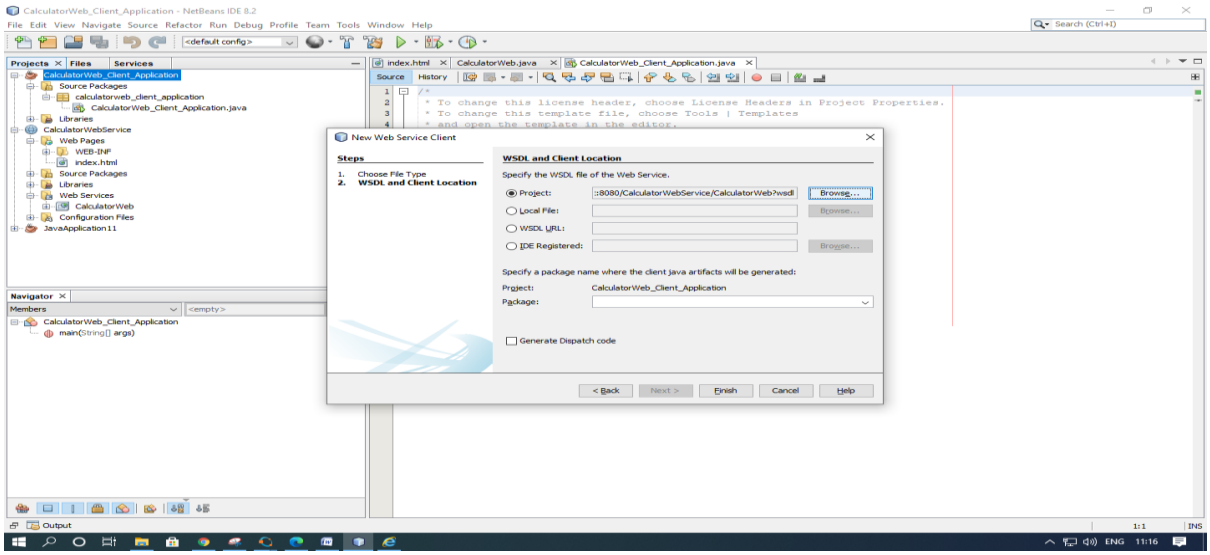
2. Right-click the “CalculatorWeb_Client_Application” node and choose New > Web Service Client. The New Web Service Client wizard opens.



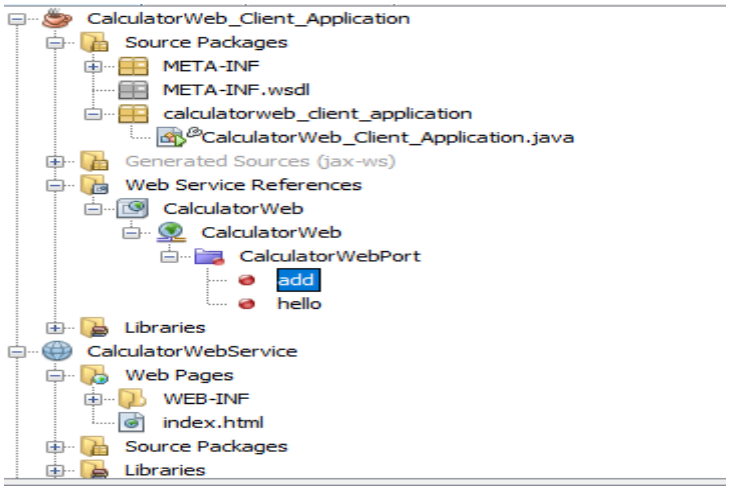
3. Select Project as the WSDL source. Click Browse. Browse to the “CalculatorWeb” web service in the “CalculatorWebService” project. When you have selected the web service, click OK.



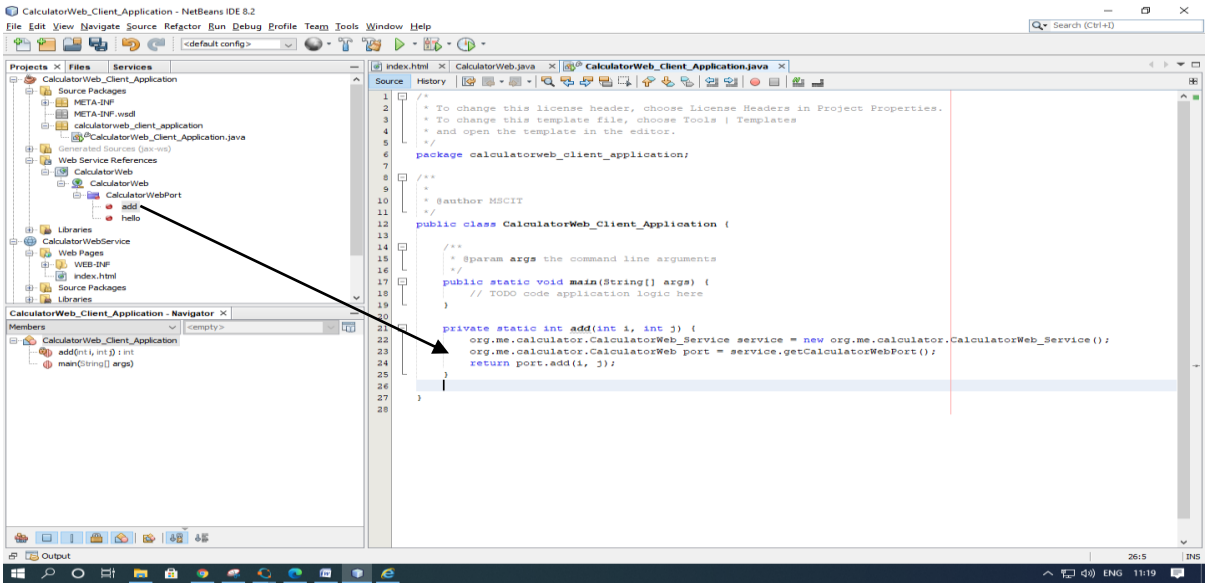
4. Do not select a package name. Leave this field empty. Leave the other settings at default and click Finish.



5. The Projects window displays the new web service client, with a node for the add method that you created:

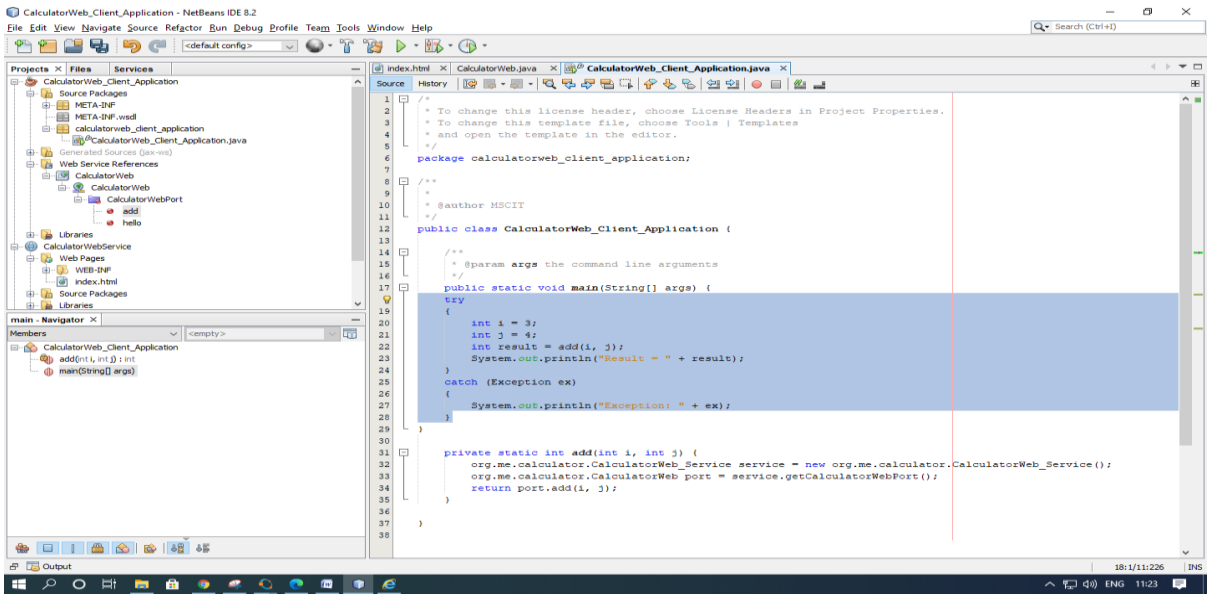


6. Double-click your main class so that it opens in the Source Editor. Drag the add node below the main() method.

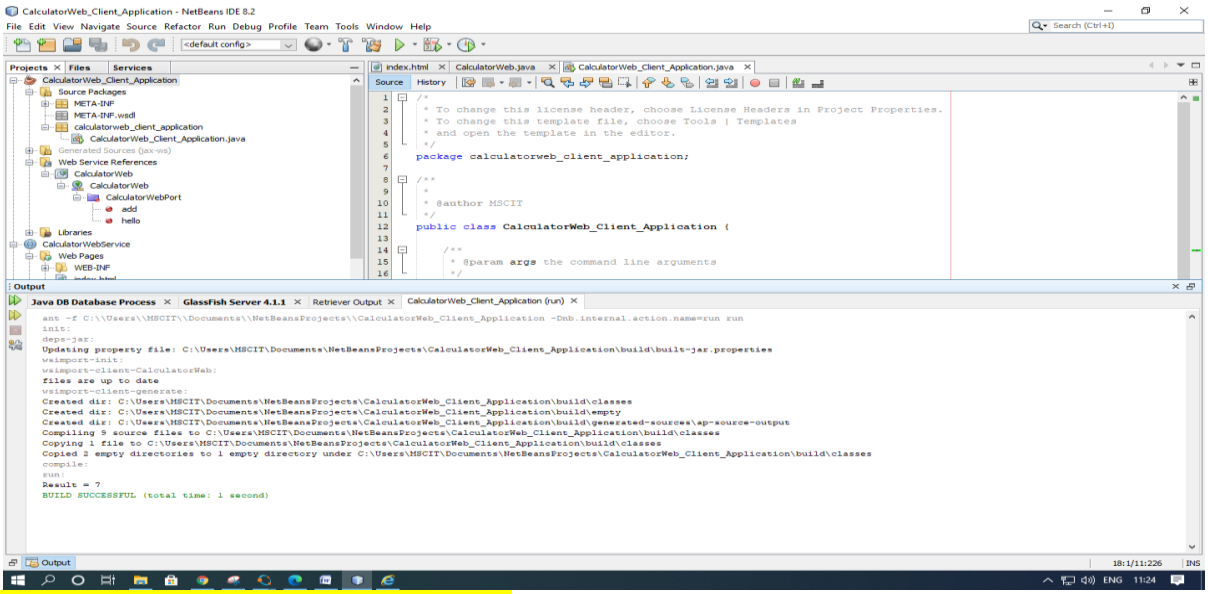


7. In the main() method body, replace the TODO comment with code that initializes values for i and j, calls add(), and prints the result.

```
try
{
    int i = 3;
    int j = 4;
    int result = add(i, j);
    System.out.println("Result = " + result);
}
catch (Exception ex)
{
    System.out.println("Exception: " + ex);
}
```



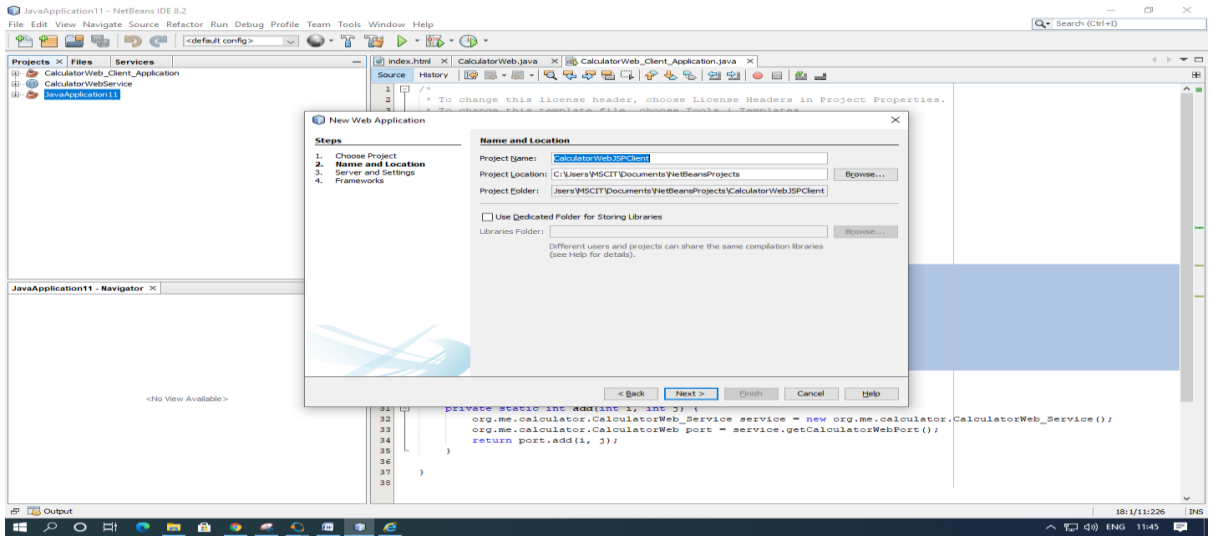
8. Right-click the project node and choose Run.
The Output window now shows the sum:
compile: run: Result = 7 BUILD SUCCESSFUL (total time: 1 second)



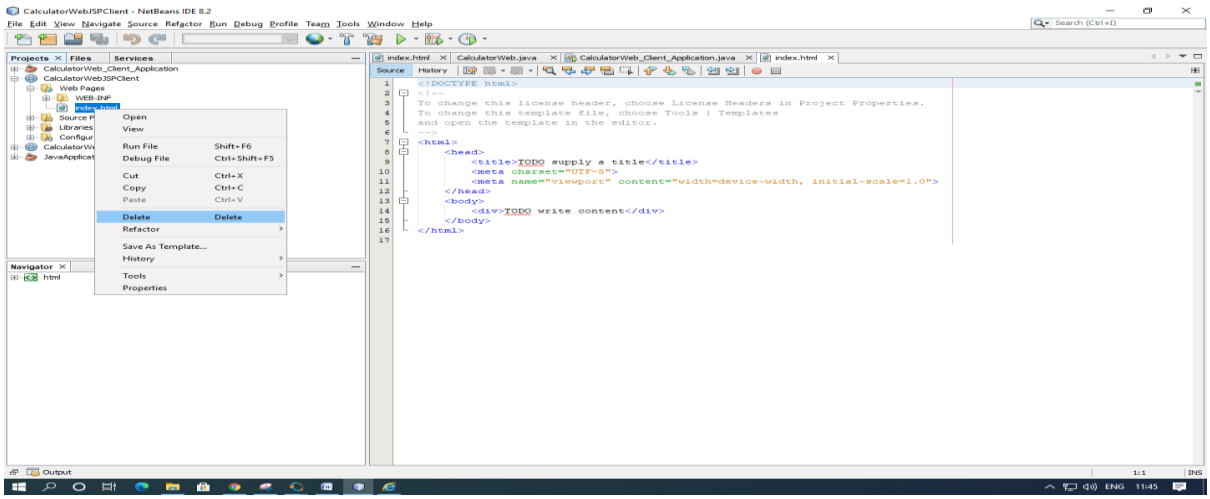
Client : JSP Page in Web Application

In this section, you create a new web application and then consume the web service in the default JSP page that the Web Application wizard creates.

1. Choose File > New Project. Select Web Application from the Java Web category. Name the project CalculatorWebJSPClient. Click Next and then click Finish.

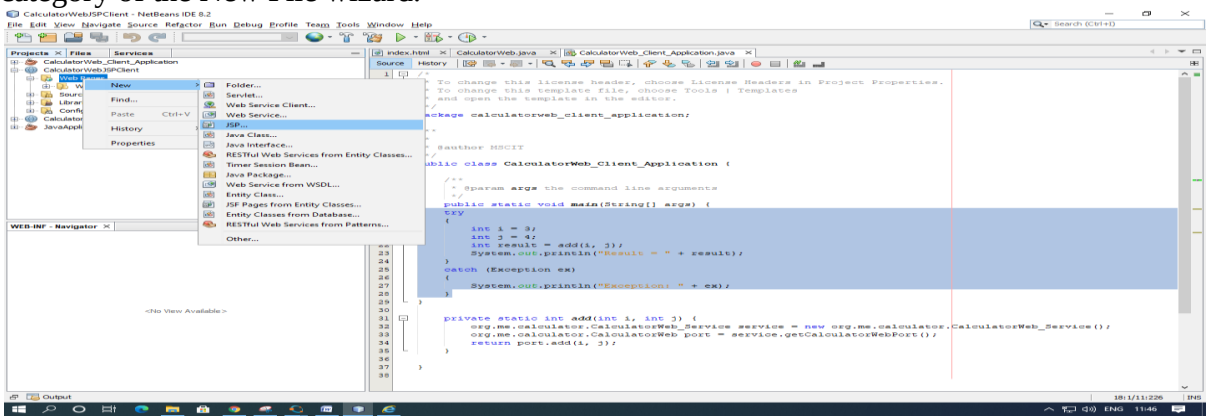


2. Expand the Web Pages node under the project node and delete index.html.

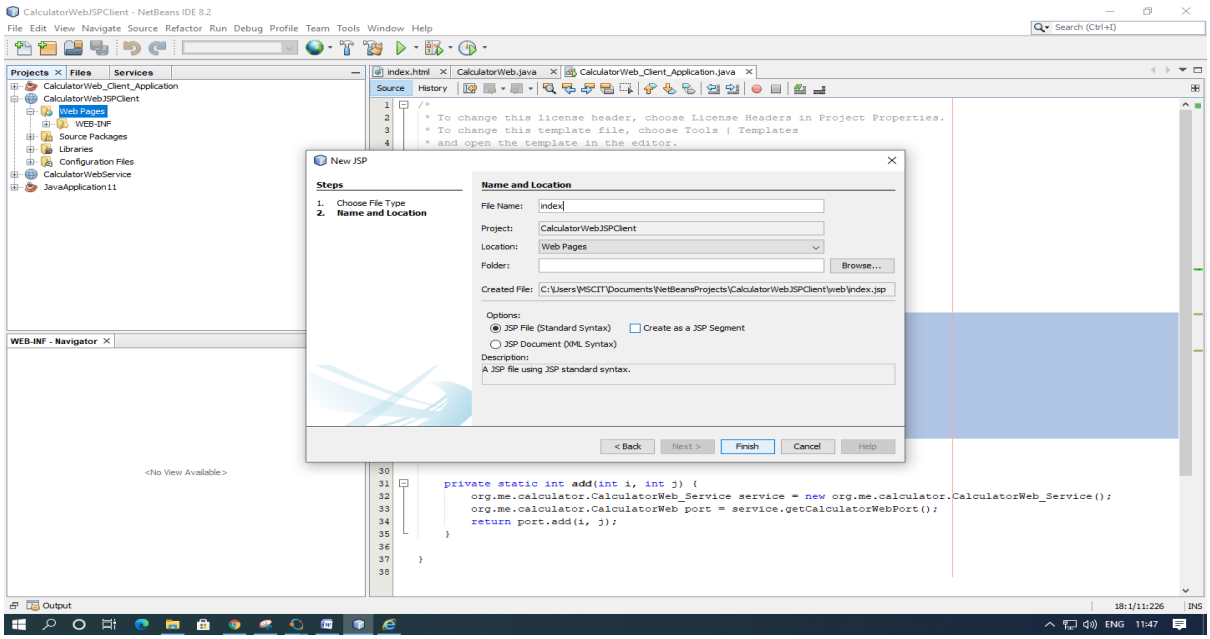


3. Right-click the Web Pages node and choose New > JSP in the popup menu.

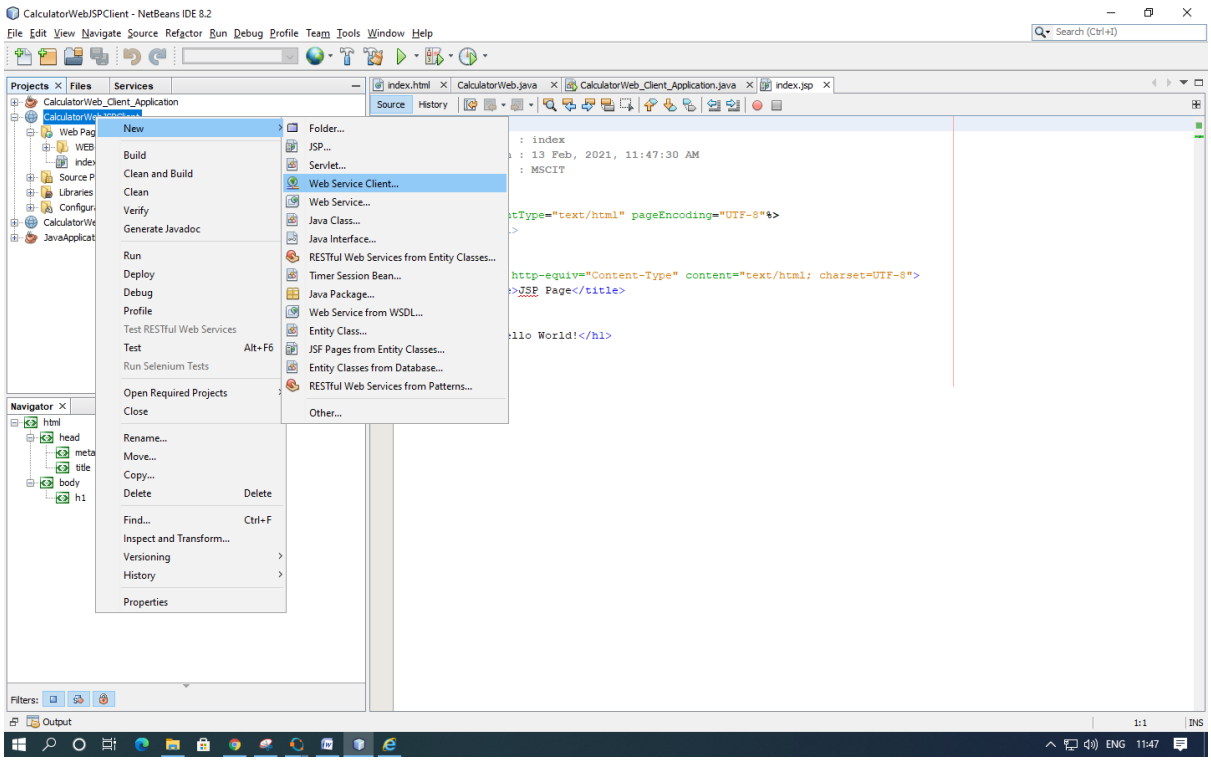
   If JSP is not available in the popup menu, choose New > Other and select JSP in the Web category of the New File wizard.



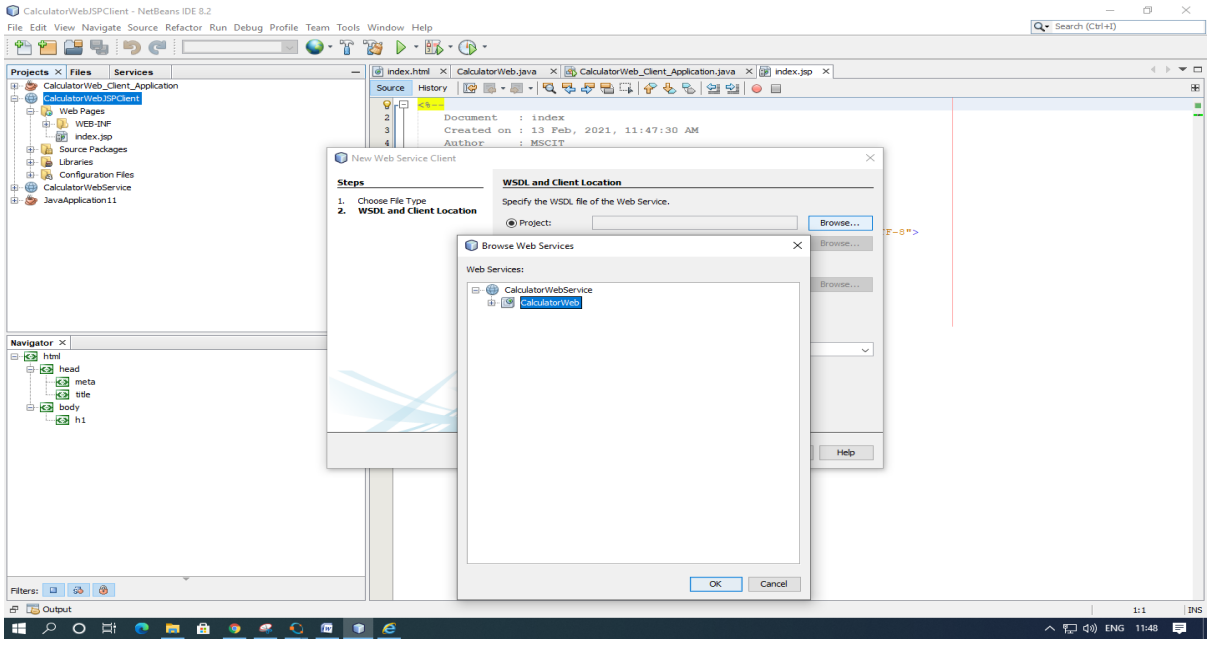
4. Type index for the name of the JSP file in the New File wizard. Click Finish.



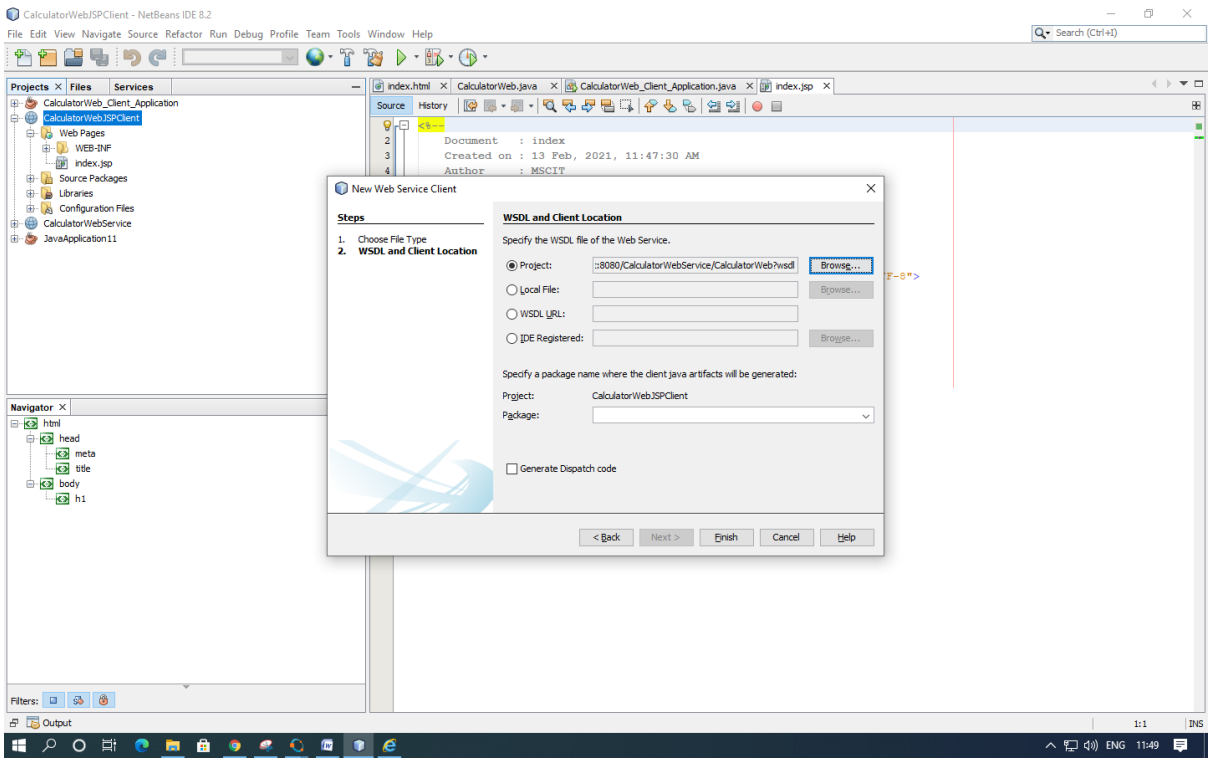
5. Right-click the CalculatorWebJSPClient node and choose New > Web Service Client.



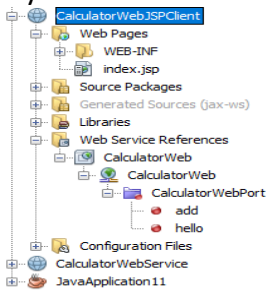
6. Select Project as the WSDL source. Click Browse. Browse to the CalculatorWeb web service in the CalculatorWebService project. When you have selected the web service, click OK.



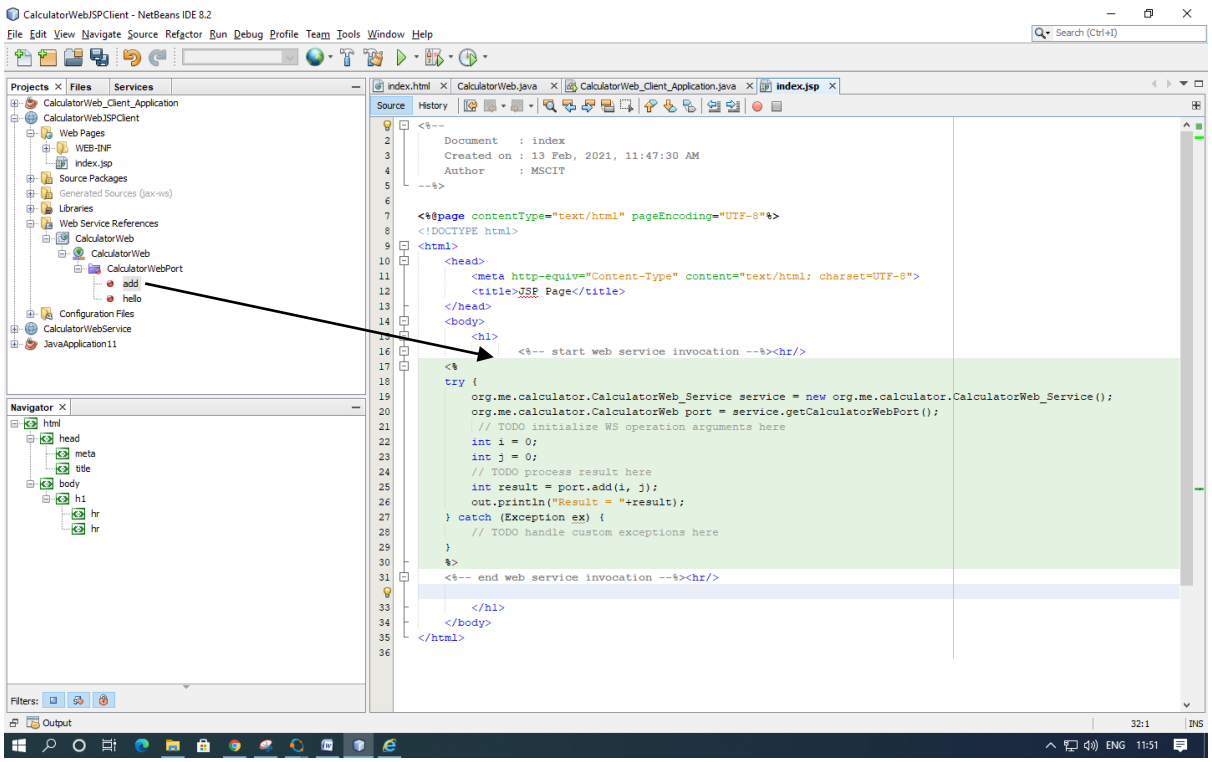
7. Do not select a package name. Leave this field empty.
8. Leave the other settings at default and click Finish.



The Projects window displays the new web service client, as shown below:



9. In the Web Service References node, expand the node that represents the web service. The add operation, which you will invoke from the client, is now exposed.
10. Drag the add operation to the client's index.jsp page, and drop it below the H1 tags. The code for invoking the service's operation is now generated in the index.jsp page, as you can see here:



Change the value for i and j from 0 to other integers, such as 3 and 4. Replace the commented out TODO line in the catch block with out.println("exception" + ex);

```
<%
try {
    org.me.calculator.CalculatorWeb_Service service = new org.me.calculator.CalculatorWeb_Service();
    org.me.calculator.CalculatorWeb port = service.getCalculatorWebPort();
     // TODO initialize WS operation arguments here
    int i = 3;
    int j = 4;
    // TODO process result here
    int result = port.add(i, j);
    out.println("Result = "+result);
} catch (Exception ex) {
    out.println("exception" + ex);
}
%>
<%-- end web service invocation --%><hr/>
```

11. Right-click the project node and choose Run.

    The server starts, if it wasn't running already. The application is built and deployed, and the browser opens, displaying the calculation result: