

Ex No: 05

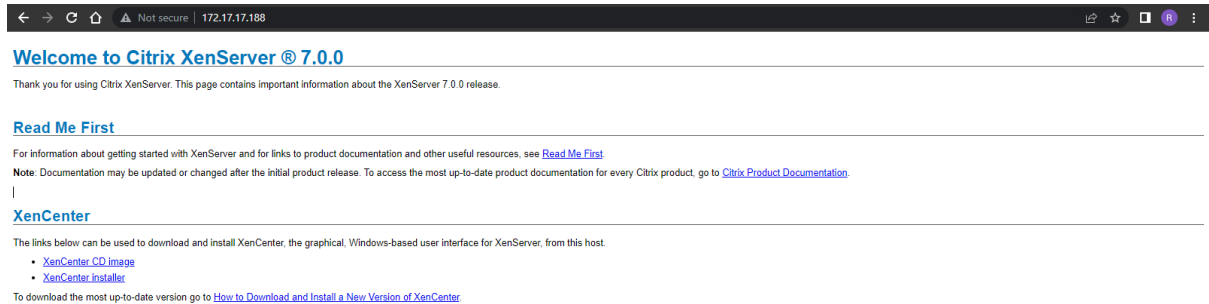
LIVE MIGRATION OF VM WITH XEN SERVER AND XEN CENTER

Aim:

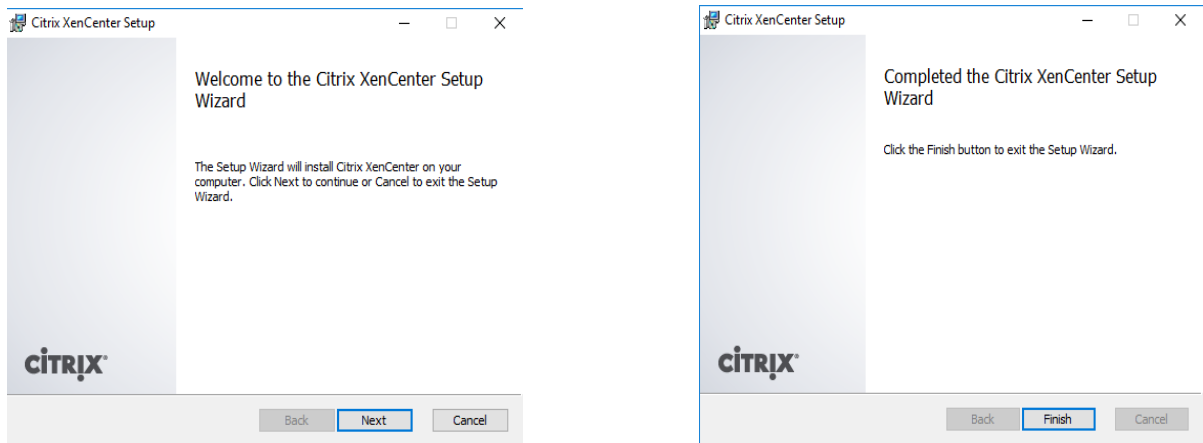
To implement live migration of VM with Xen server and Xen center.

Procedure:

Open browser type 172.17.17.188



Download XenCenter installer

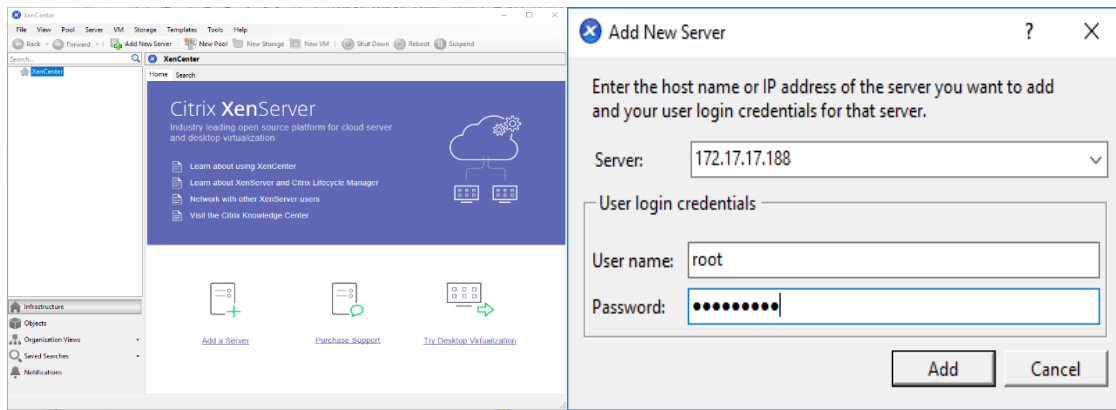


Click on the Add New Server Option. A dialog box to add a new server will appear. Type in the IP address of the server also the user's name and password.

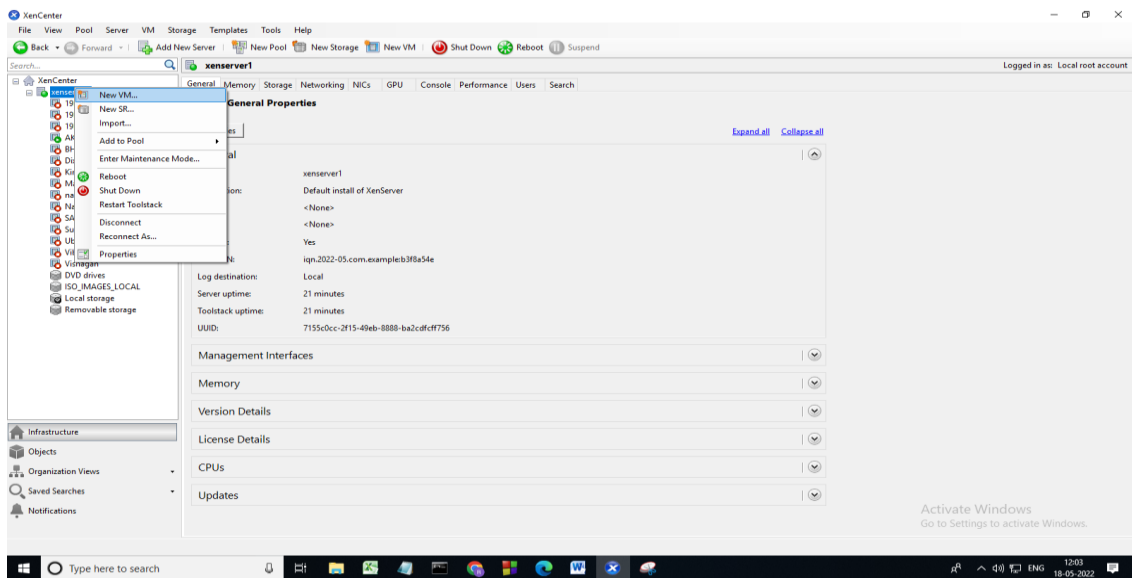
Server : 172.17.17.188

Username : root

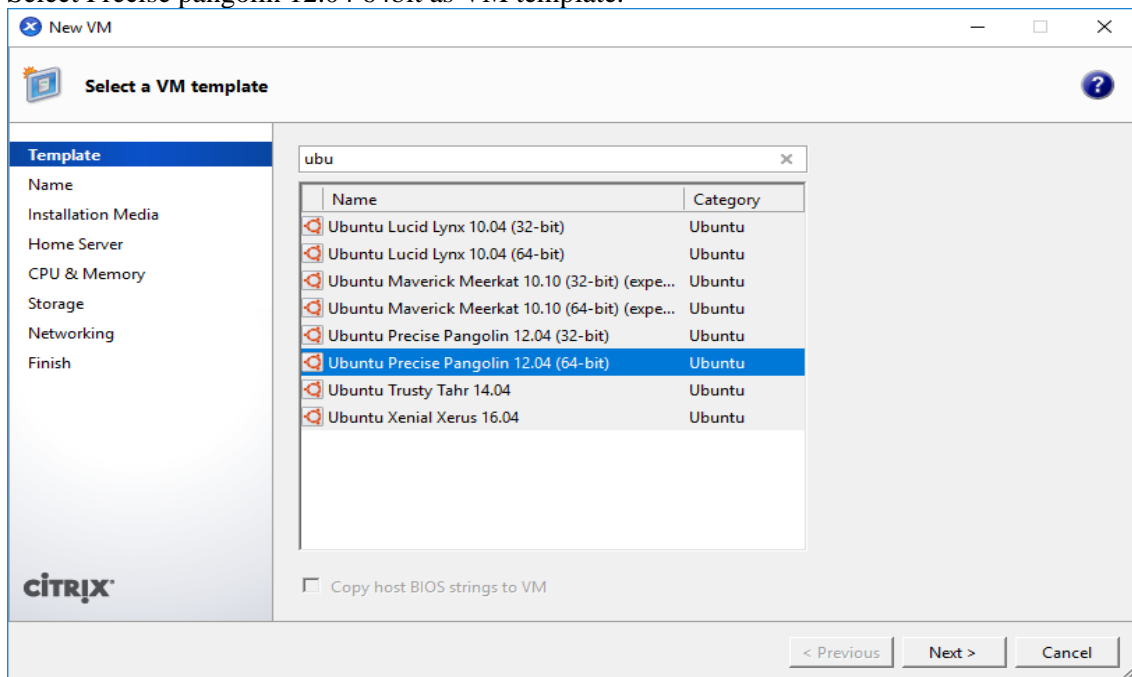
Password : tceit@123



Create a new server VM



Select Precise pangolin 12.04 64bit as VM template.



Name the newly created VM

The screenshot shows the 'New VM' window with the 'Name' tab selected. The left sidebar lists steps: Template, Name, Installation Media, Home Server, CPU & Memory, Storage, Networking, and Finish. The main area contains instructions to name the VM and a text box with '19IT077 Reshma' entered. A description box is also present but empty. Navigation buttons at the bottom are '< Previous', 'Next >', and 'Cancel'.

New VM

Name the new virtual machine

Template

Name

Installation Media

Home Server

CPU & Memory

Storage

Networking

Finish

Enter a name that will help you to identify the virtual machine later. This could be a name that describes its software and hardware such as RHEL DHCP Server or Exchange 2007 Client Access Server. This name will also be displayed in XenCenter's Resources pane and can be changed later.

You can also add a more detailed description of the VM, if you wish.

Name: 19IT077 Reshma

Description:

CITRIX

< Previous Next > Cancel

Click install from ISO library or DVD drive and select ubuntu12.iso from dropdown list.
Click next.

The screenshot shows the 'New VM' window with the 'Installation Media' tab selected. The left sidebar highlights 'Installation Media'. The main area shows two radio buttons: 'Install from ISO library or DVD drive' (selected) and 'Install from URL'. The first option has a dropdown menu showing 'ubuntu12.iso' and a link to 'New ISO library...'. Below is an 'Advanced OS boot parameters' section with a text box containing '-- quiet console=hvc0'. Navigation buttons at the bottom are '< Previous', 'Next >', and '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:

ubuntu12.iso [New ISO library...](#)

☐ Install from URL:

Advanced OS boot parameters

Enter any advanced boot parameters here. Leave this box blank if you do not wish to supply any parameters.

-- quiet console=hvc0

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.

☐ Don't assign this VM a home server. The VM will be started on any server with the necessary resources. (Shared storage required).
 ☒ Place the VM on this server:

xenserver1
 910 MB available (3.9 GB total)

< 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, their topology and the amount of memory that will be initially allocated to the new virtual machine.

Number of vCPUs:

Topology:

Memory: MB

< Previous

Next >

Cancel

New VM

Configure storage for the new VM

Template

Name

Installation Media

Home Server

CPU & Memory

Storage

Networking

Finish

The virtual machine template you selected earlier provides the virtual disks listed below. You can change the properties of these virtual disks, and add more disks if required.

Alternatively, you can select the second option below to create a diskless VM that can be booted from the network and does not use any virtual disks.

When you have finished configuring disks for the new virtual machine, click Next to continue to the next step.

☒ Use these virtual disks:

Location	Size	Shared	
Local storage	8 GB	False	<div>Add...</div> <div>Delete</div> <div>Properties</div>

☐ Use storage-level fast disk clone

☐ Create a diskless VM that boots from the network

< Previous

Next >

Cancel

New VM

Configure networking on the new VM

Template

Name

Installation Media

Home Server

CPU & Memory

Storage

Networking

Finish

The virtual machine template you have selected provides the virtual network interfaces listed below. You can configure or delete the default virtual network interfaces here, and add more if required.

Virtual network interfaces on 19IT077 Reshma

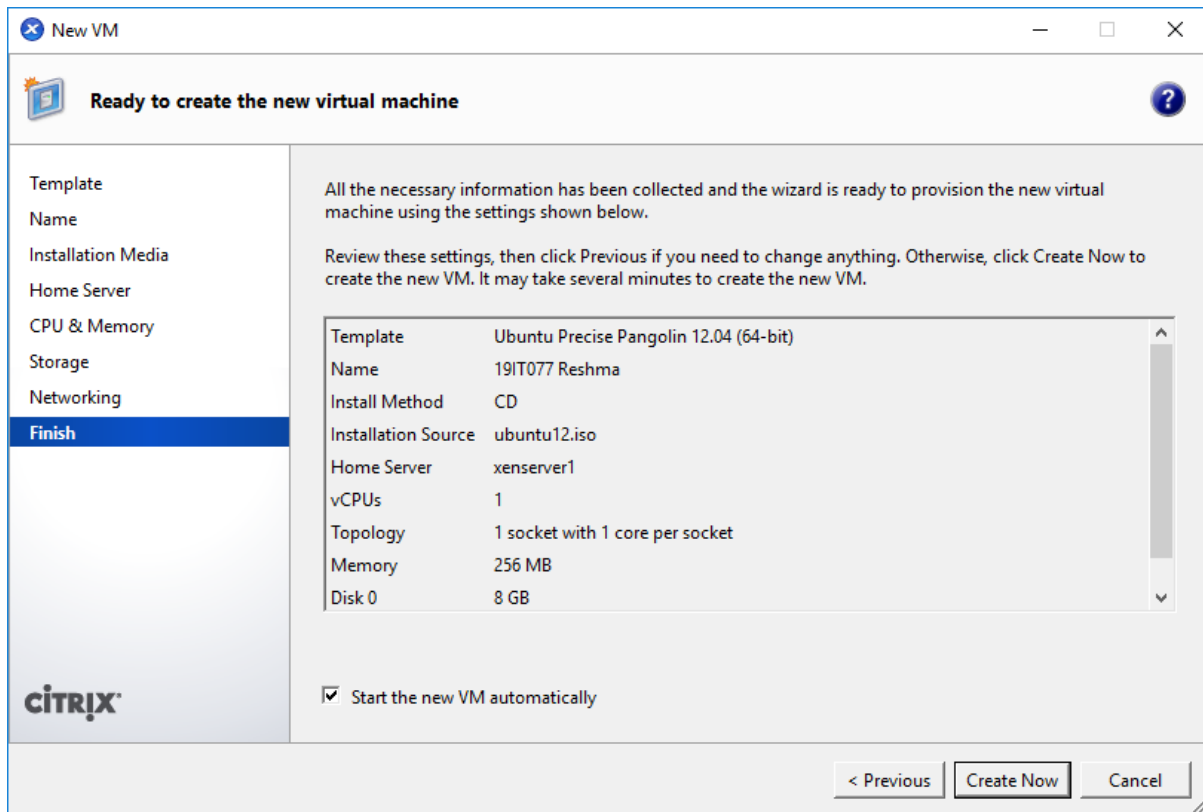
MAC	Network	
<autogenerated MAC>	Network 0	<div>Add...</div> <div>Delete</div> <div>Properties</div>

☒ Using a Default template, you can configure up to 4 virtual network interfaces during VM creation. To configure more than 4, create a Custom template or add extra virtual network interfaces from the Network tab after creating the new VM.

< Previous

Next >

Cancel



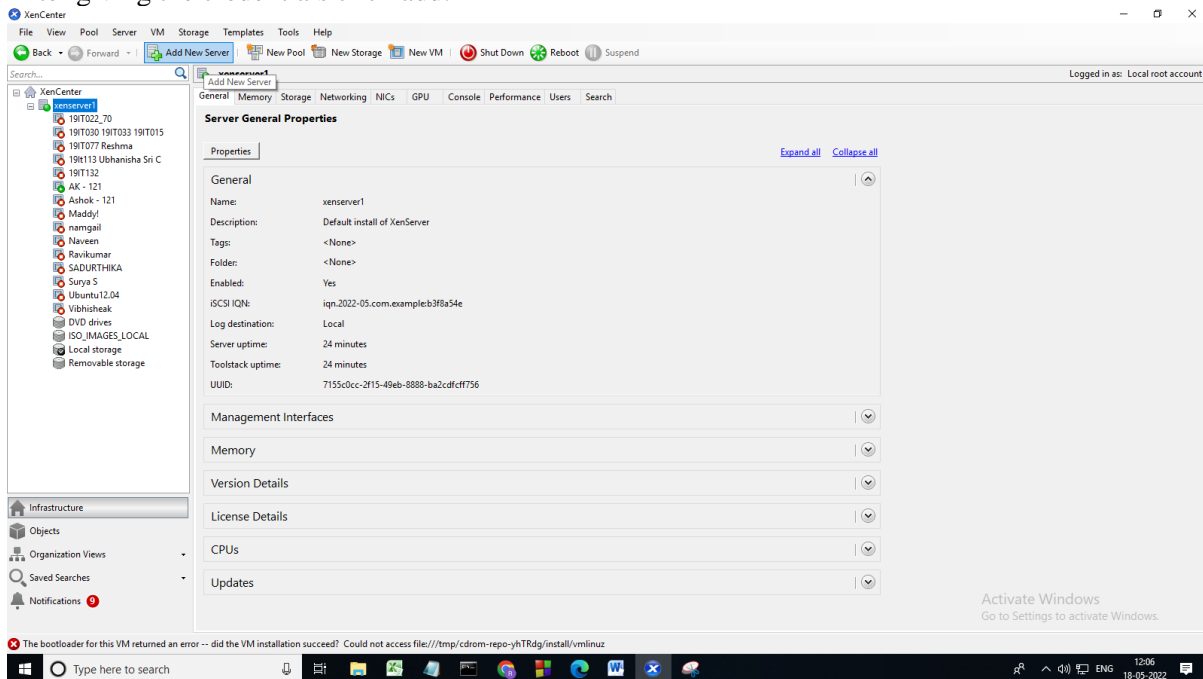
After creating the new virtual machine open the xen center and give add new user.

Server : 172.17.17.101

Username : root

Password : tceit@1234

After giving the credentials click add.



Add New Server

Enter the host name or IP address of the server you want to add and your user login credentials for that server.

Server: 172.17.17.101

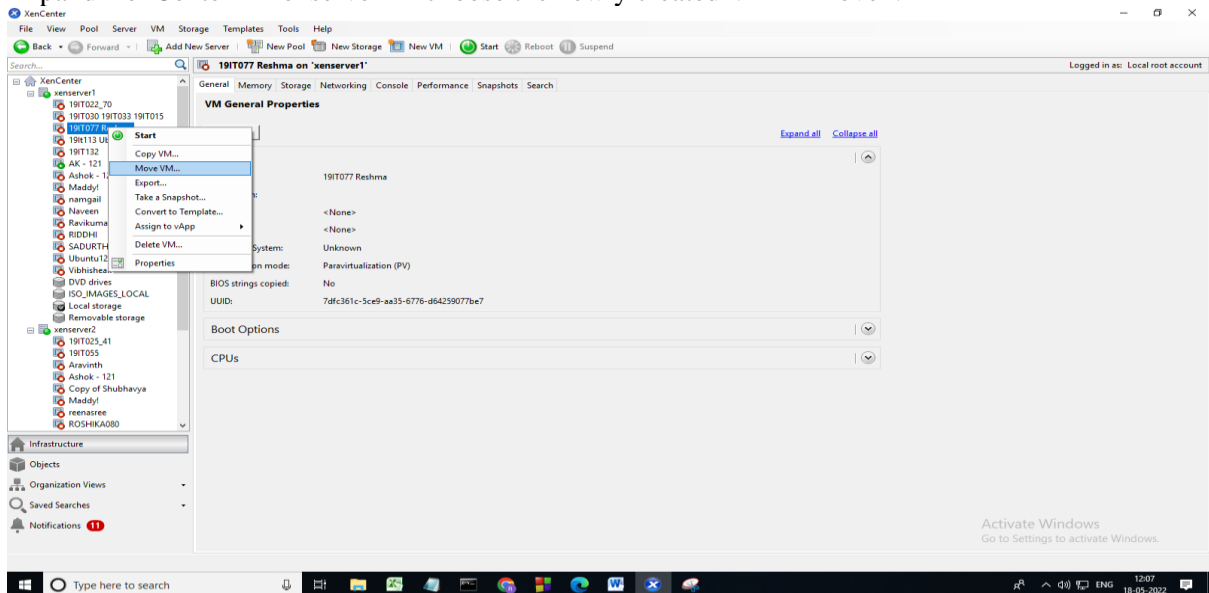
User login credentials

User name: root

Password: ••••••••

Add Cancel

Expand XenCenter → xenserver1 → choose the newly created VM → Move VM



Select destination pool as xenserver2 → Next

Move VM

Select the destination pool or standalone server

Destination Pool

Storage

Finish

Select the pool or standalone server where you want to migrate the selected VM to.

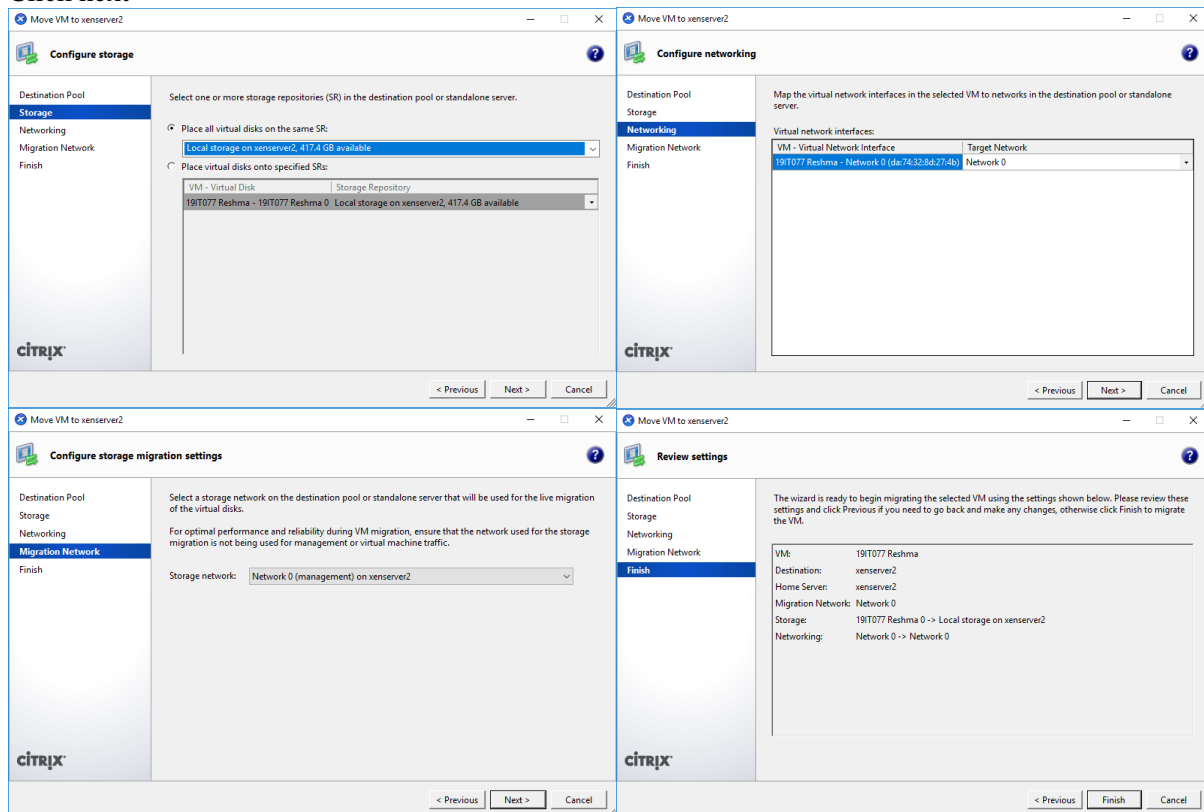
Destination: xenserver2

Specify a home server in the destination pool (optional):

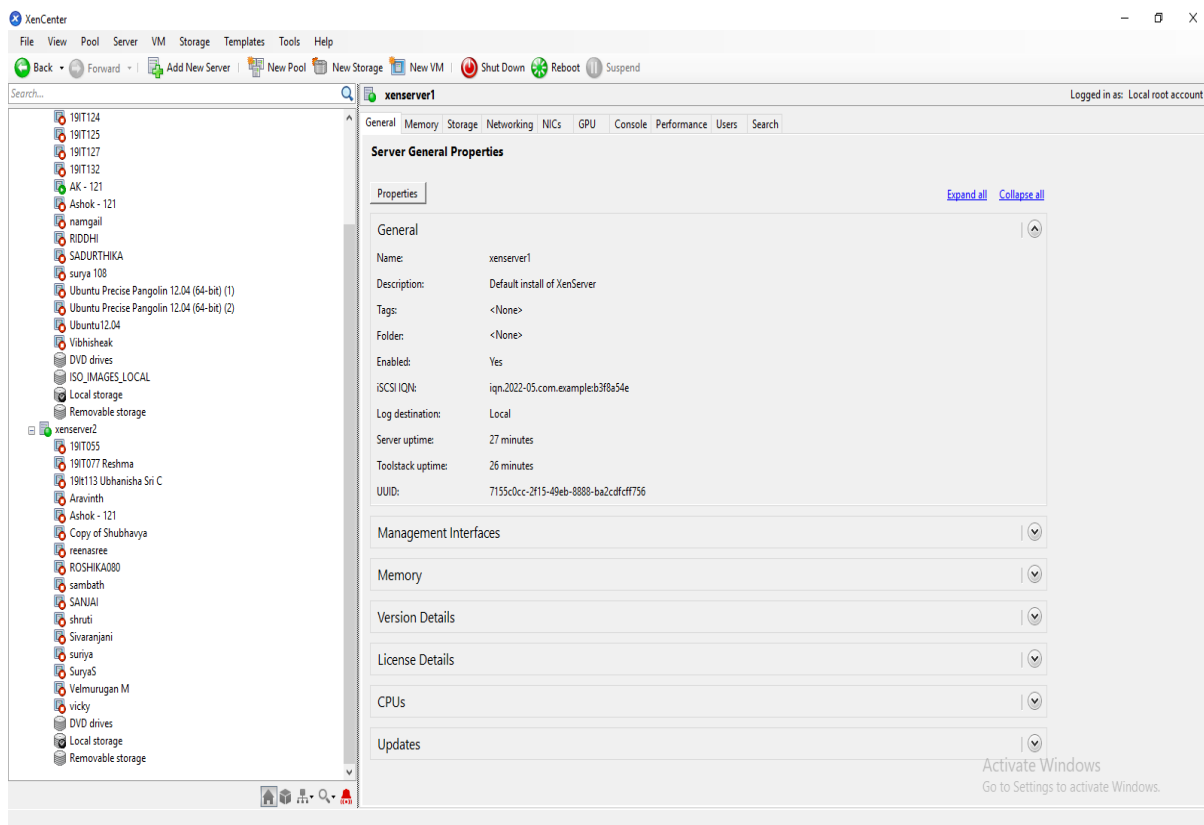
VM	Home Server
19IT077 Reshma	xenserver2

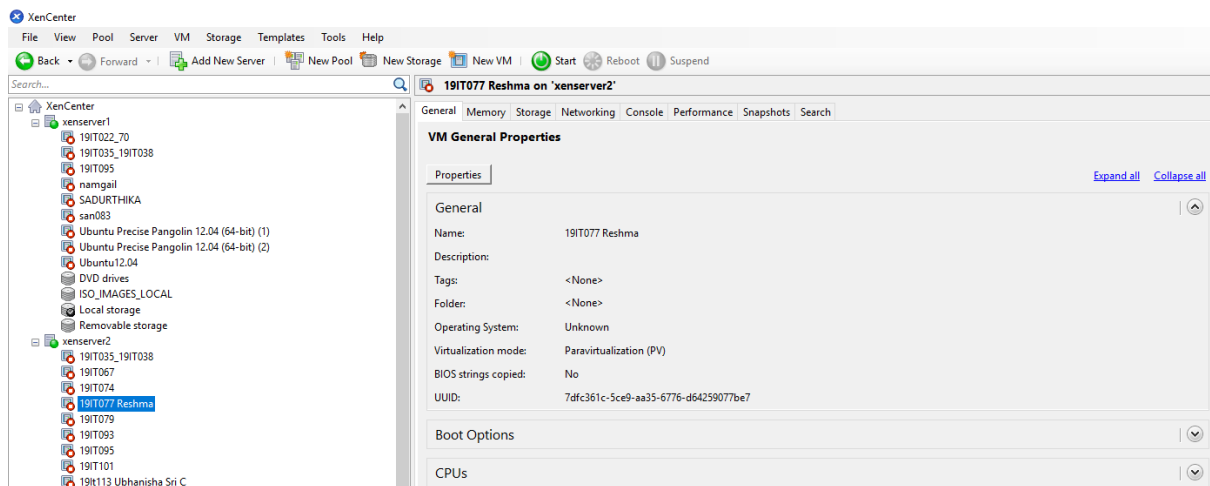
< Previous Next > Cancel

Click place all virtual disks on the same SR
 Select local storage xenserver2 from dropdown list.
 Click next

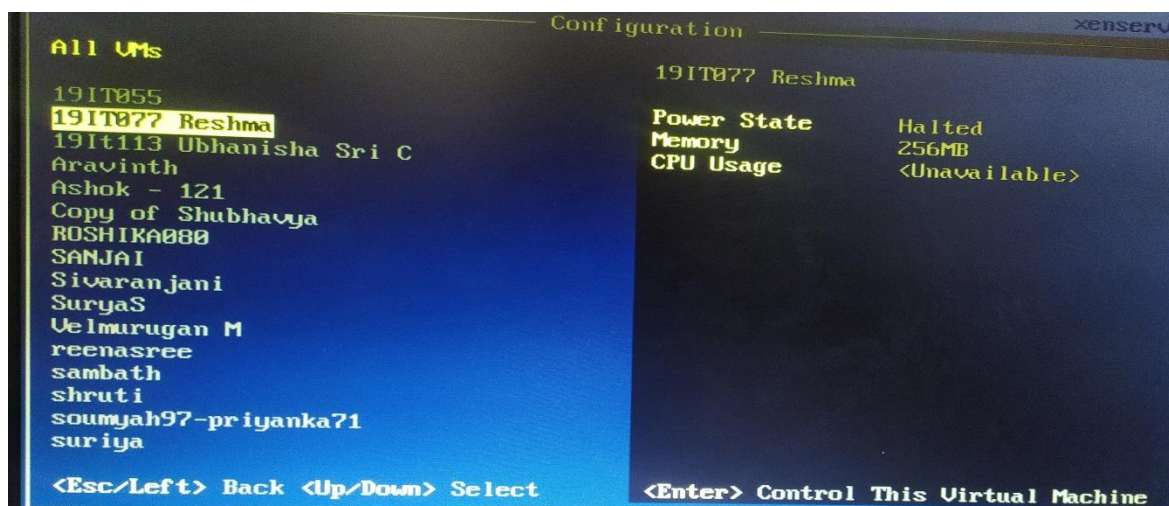


Now VM has been moved to xenserver2 from xenserver1.





Output:
The moved VM is now seen in xenserver2.



Result:
Thus, the Live Migration of VMs with XEN Server and XEN Center was implemented Successfully.