# Using SANDeploy iSCSI SAN for Citrix XenServer

Friday, October 8, 2010

www.sandeploy.com

## Table of Contents

# Overview

SANDeploy Storage virtualization solution will bring low cost and more convenient in data protection, data replication, data backup and failover than the real-hardware.

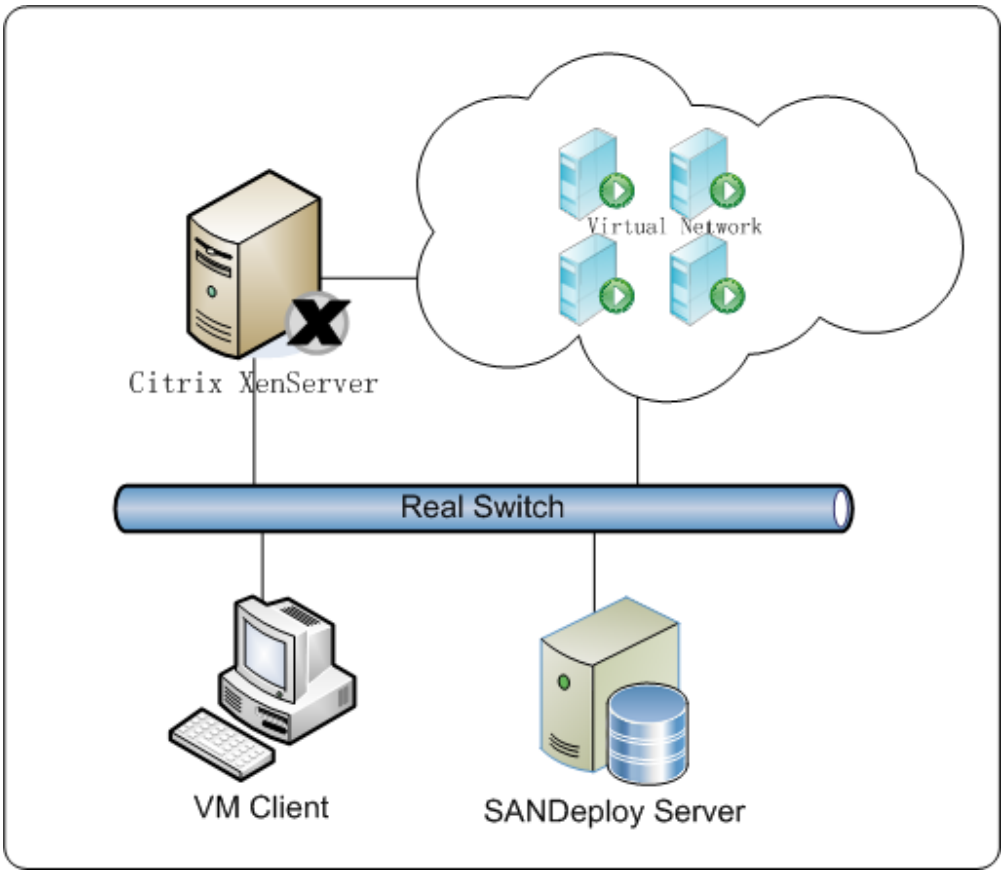


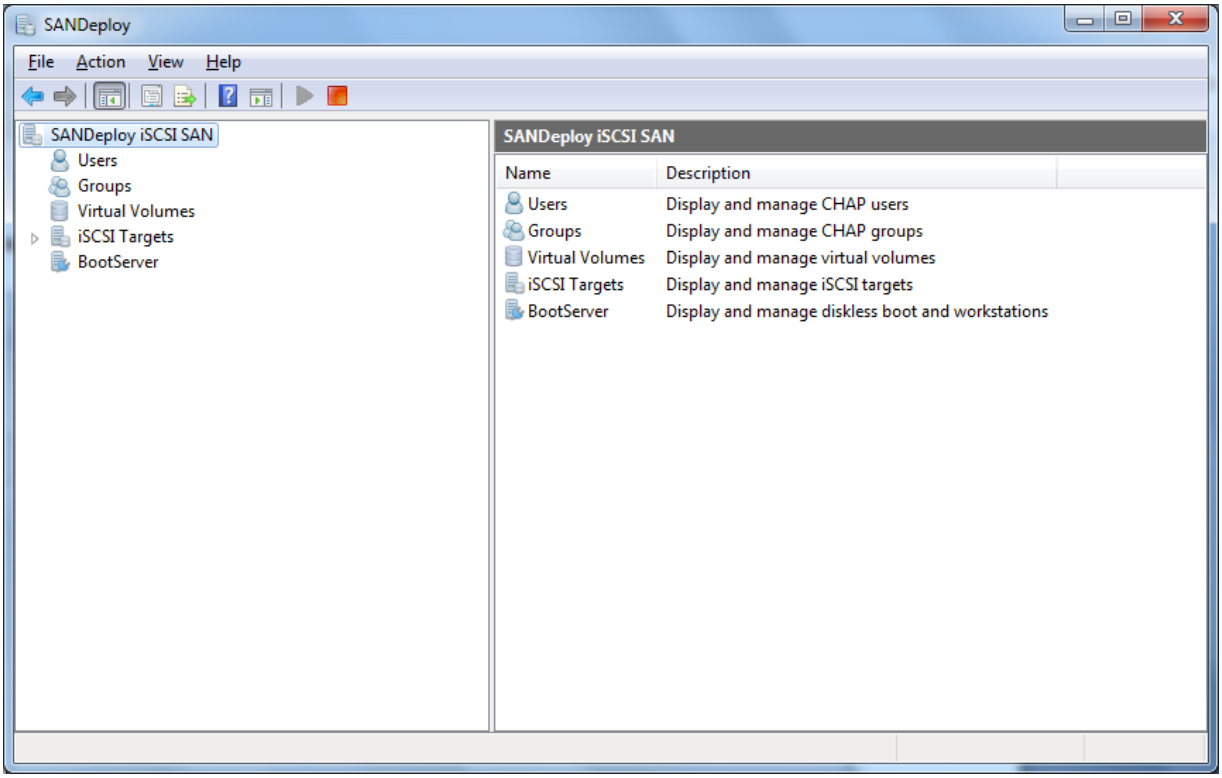

Figure 1, SANDeploy Offers shared-storage array for Citrix XenServer

This document gives users detailed step-by-step instructions on configuring SANDeploy iSCSI SAN for Citrix XenServer. Virtual Servers may need two or more computers use a few external storages such as iSCSI disks. With SANDeploy, you can quickly create a series of shared disks for virtualization servers.

# Preparing SANDeploy Storage

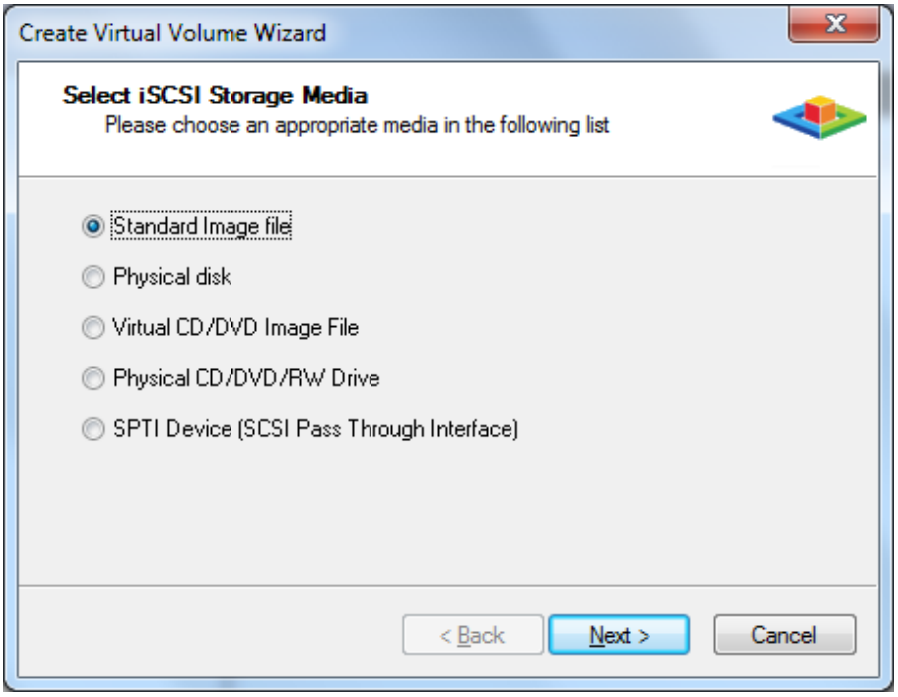
# Create Virtual Volume

Click All Programs->**SANDeploy**->**SANDeploy Boot Server** (or **SANDeploy Server**) to launch **SANDeploy Management Console**.



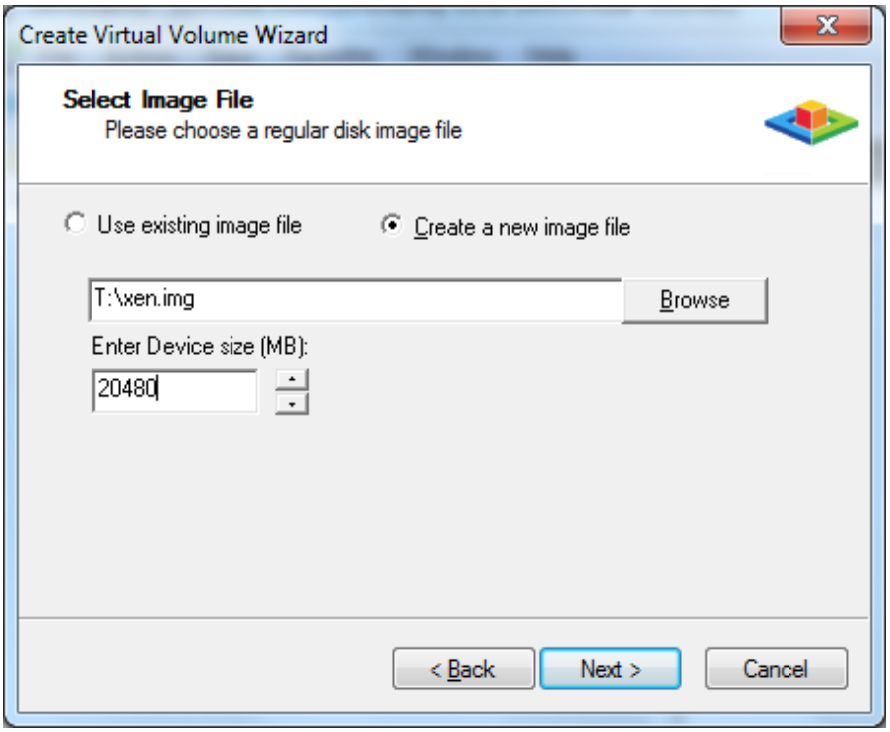

Right click on the **Virtual Volumes** node of left tree view in the main interface.

Select **Create Virtual Volume...** from the pop-up menu. The **Create Virtual Volume Wizard** appears.




Select **Standard Image file** and press the **Next** button to continue.

Select Image File

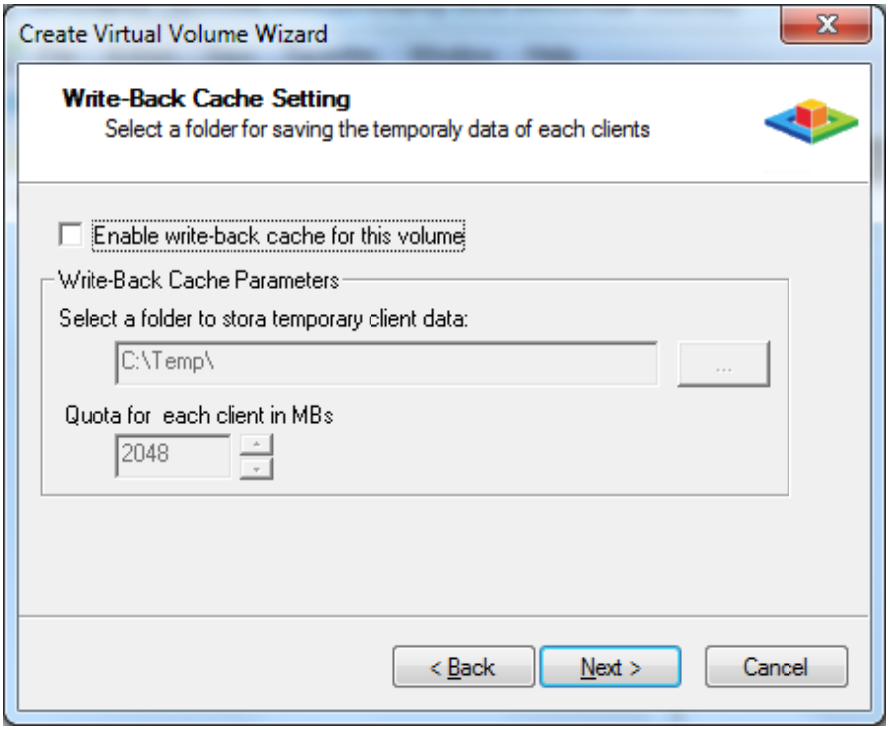


User can either select to open an existed image file or choose to create a new image file.

To create new image file, please select the location of the file where user wants to create the file, specify the capacity of the image file.

Specify Write-Back Cache Setting

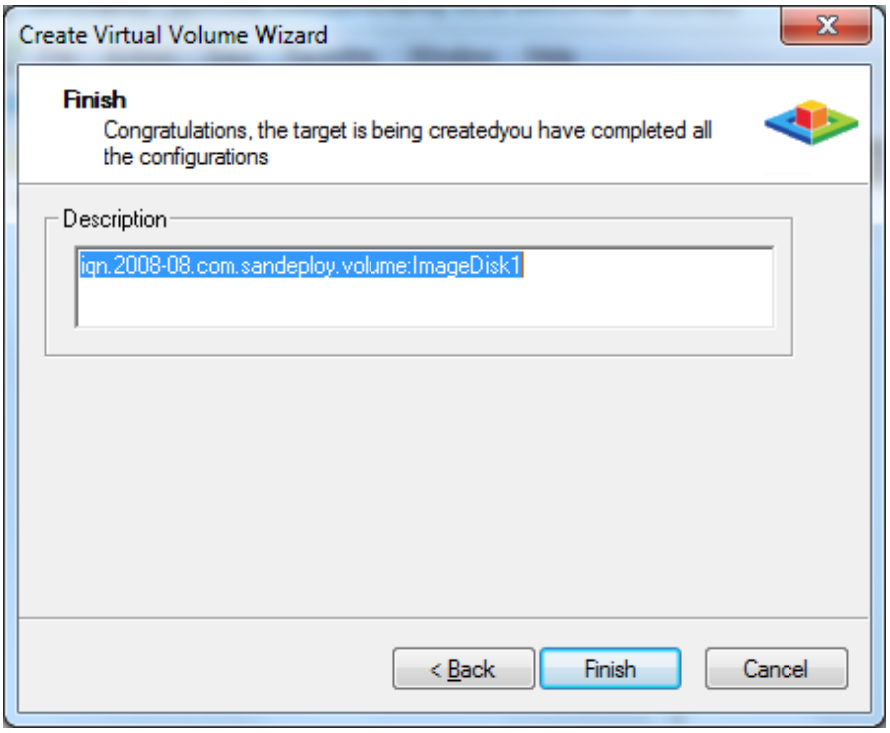
When using SANDeploy Boot Server, the following page will appear.




Do not need to use Write-Back option.

Press the **Next** button to continue.

Finish the virtual volume creating.




On the finish window, user can input some descriptions of the volume.

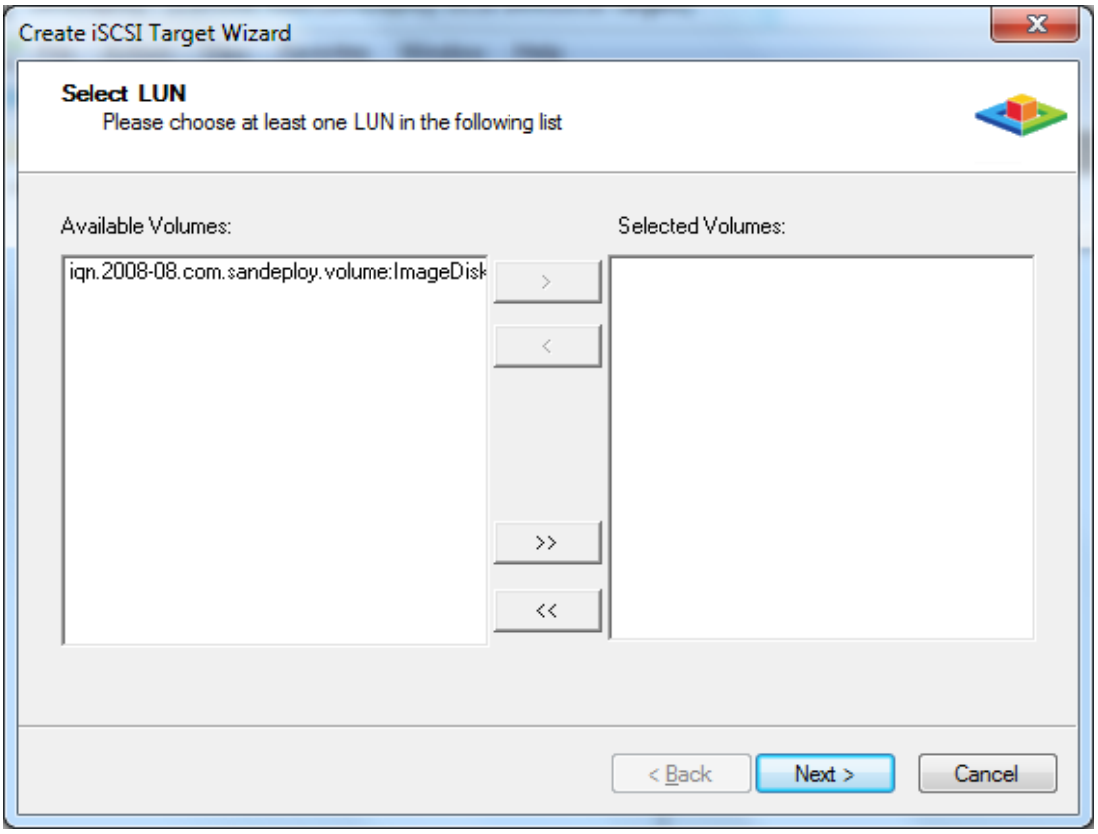
Press **Finish** to exit.

# Create iSCSI Target

Right click on the **iSCSI Targets** node of the left tree view in the main interface.

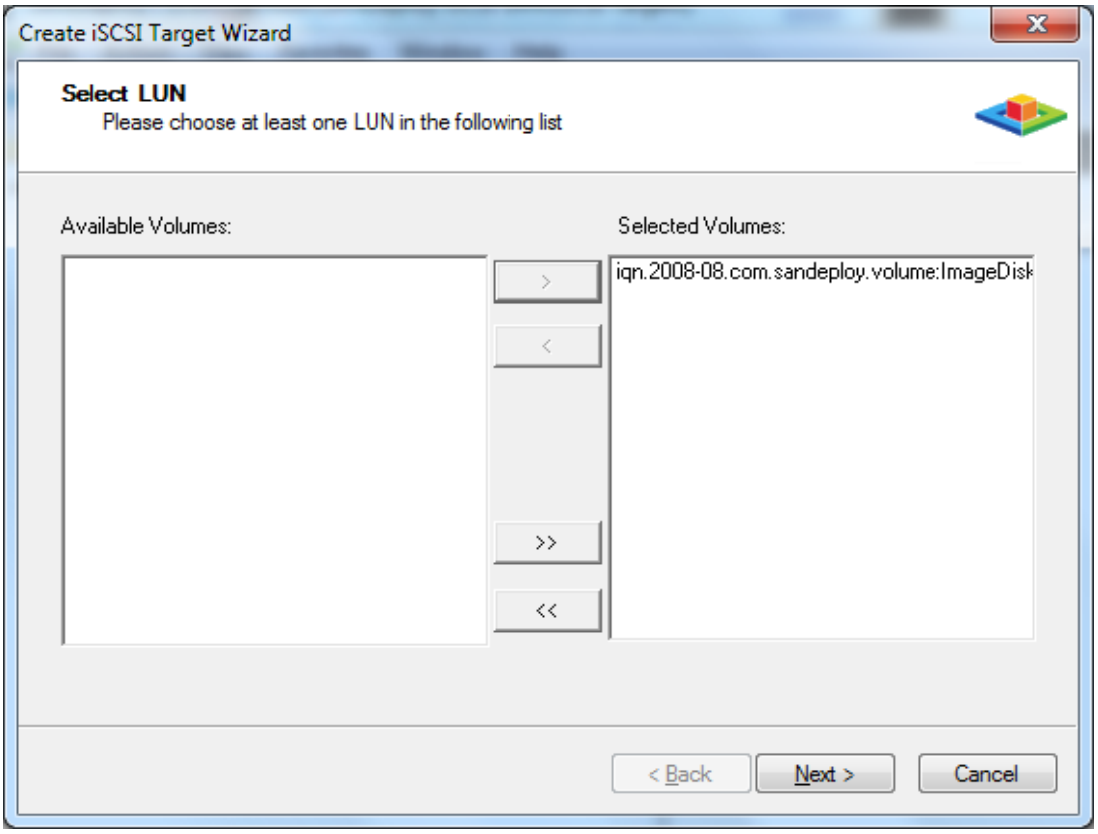
Select **Create Target...** from the pop-up menu. The Create iSCSI Target Wizard displays.

Select LUN




Select the volume in the **Available Volumes** box, and then press the **>** button to add it to the **Selected Volumes** box.

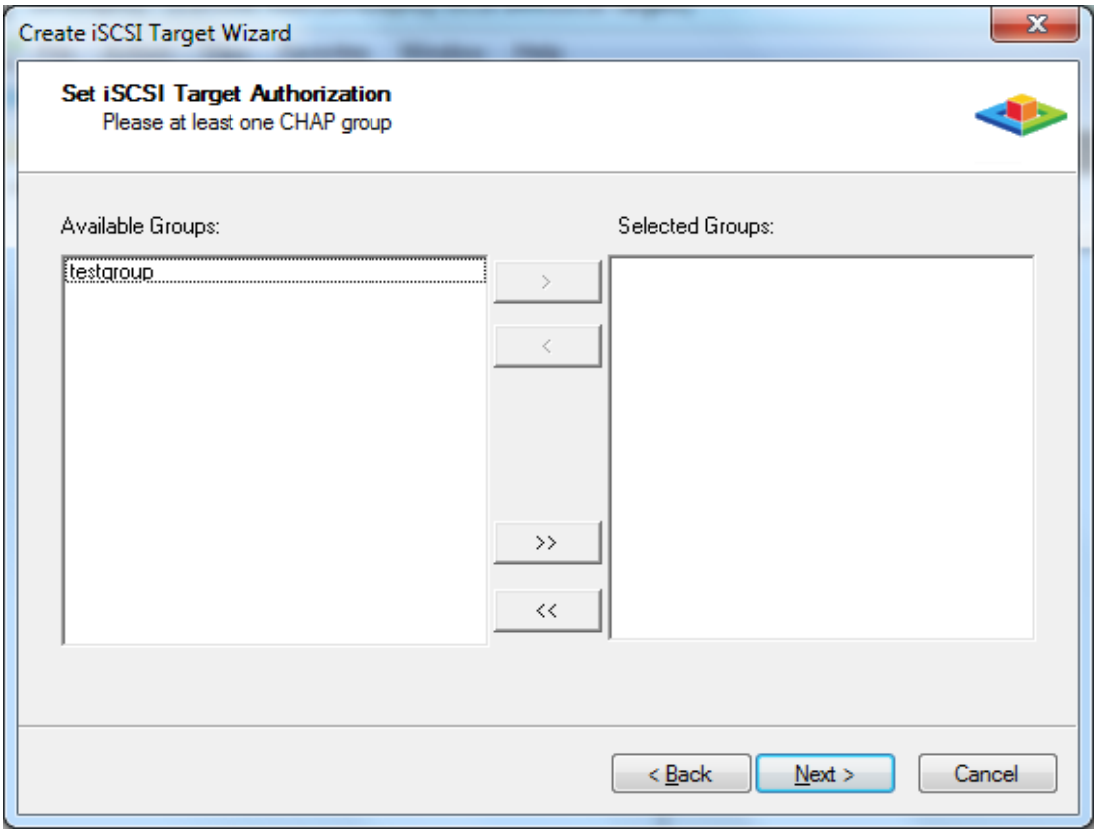
Press the **Next** button to continue.




You can choose the CHAP group from the **Available Groups,** then add it to the **Selected Groups by** clicking **>** button.

Press the **Next** button to continue.

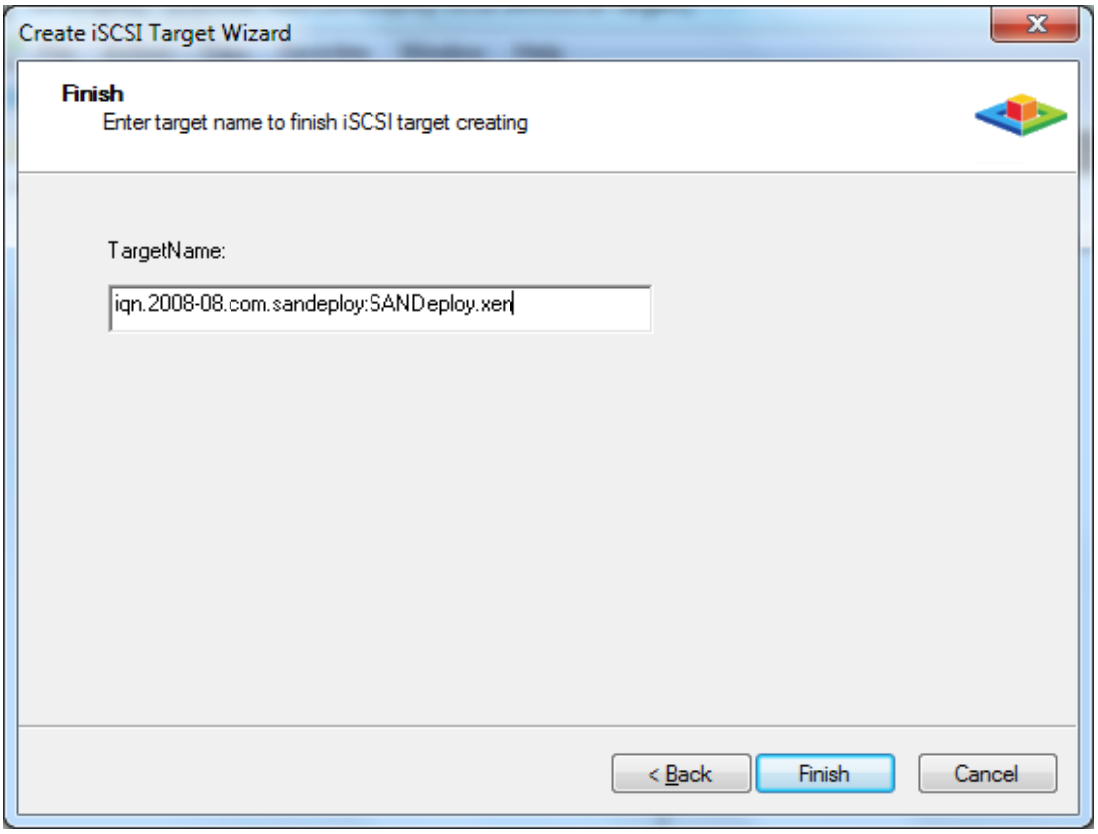
Authorization Settings




When you want to use **CHAP**, select some groups from **Available Groups** box, and then click **>** button to add them to **Selected Groups**.

Press the **Next** button to continue.

Finish iSCSI Target Creating



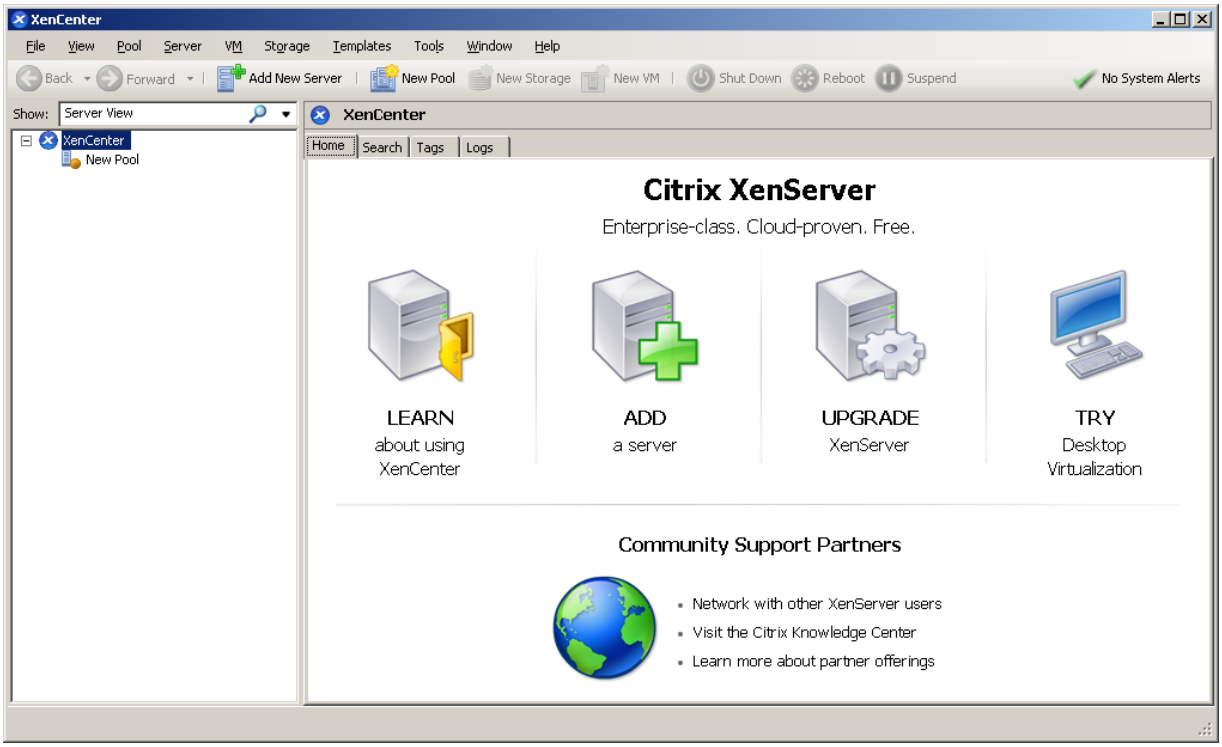

In the finish widow, type target name as you wish.

Press the **Finish** button to exit.

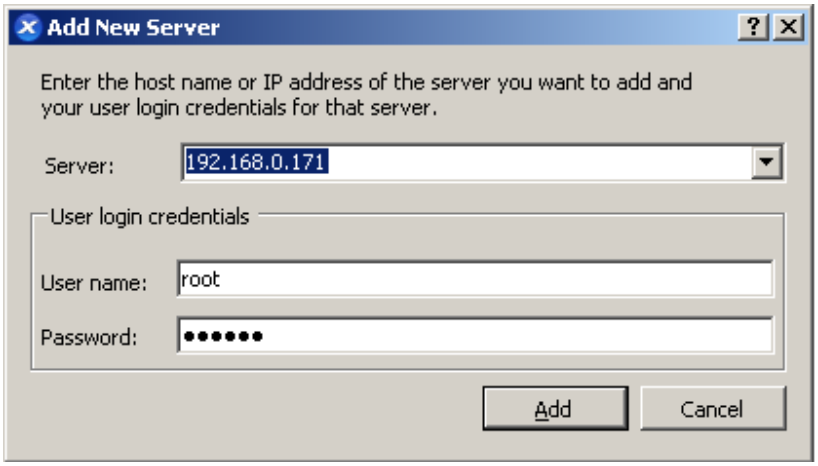
# Configuring on the XenServer

# Logon to XenServer

Launch XenCenter




Click **Add New Server** in the tool bar. The **Add New Server** dialog appears.

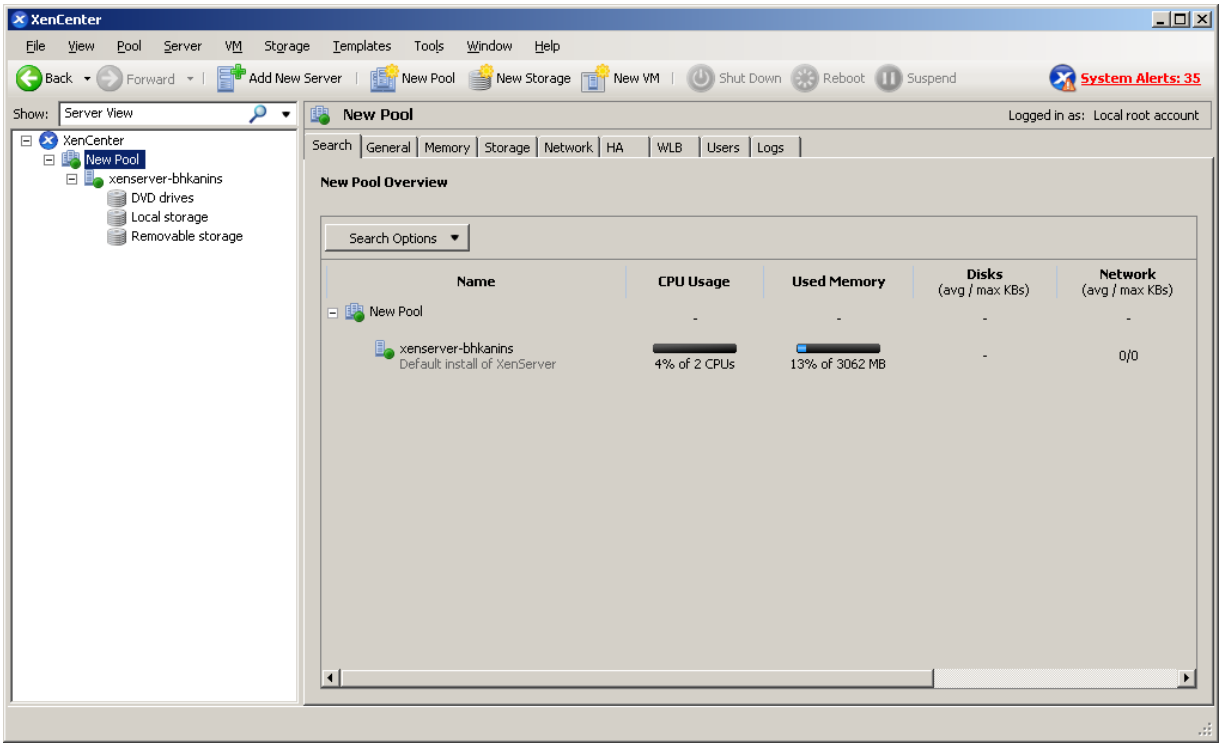



Type the IP address / Name with which running XenServer.

Type user name and password.

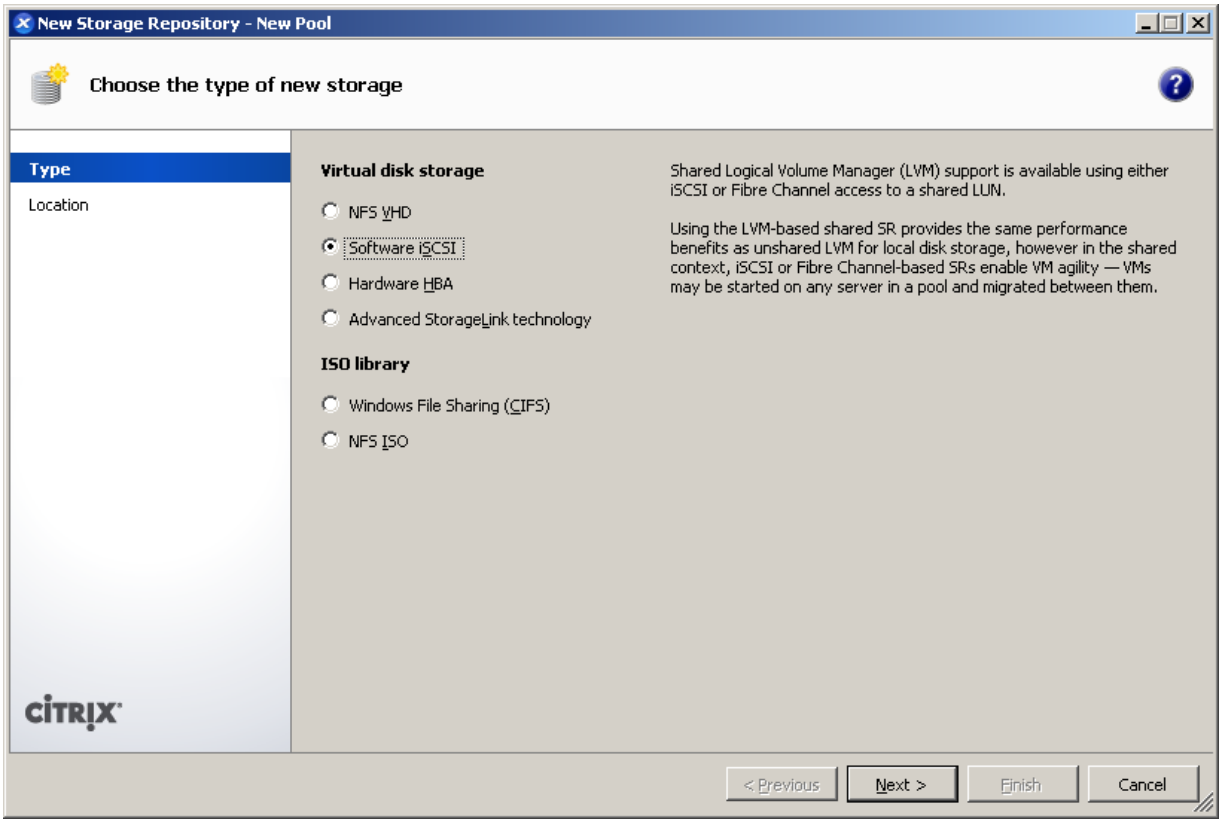
Press the **Add** button to continue.

Now entering XenCenter main interface.



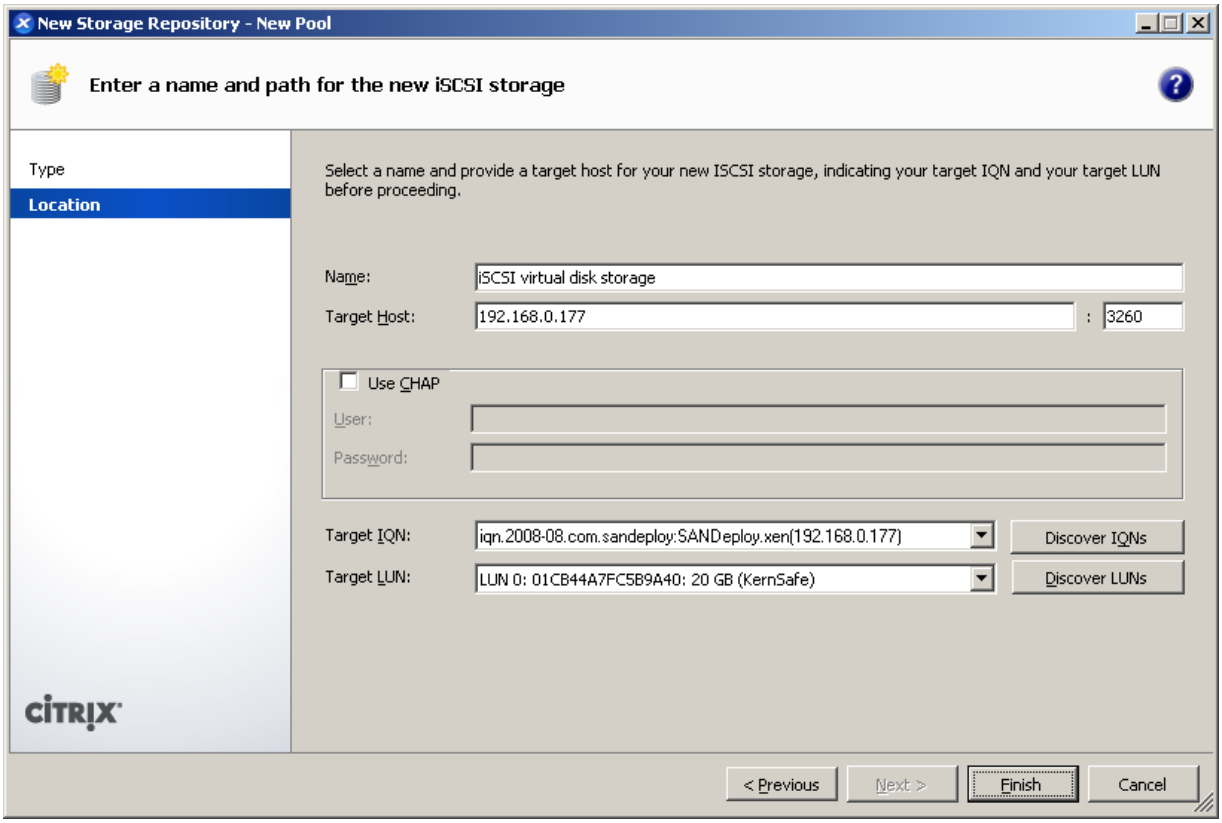

# Add iSCSI Storage device into XenServer

Click **New Storage**, **New Storage Repository** dialog appears.




Choose the type of new storage, we select **Software iSCSI.**

Press the **Next** button to continue.




Input IP address and port (if not 3260) of the Host that runs SANDeploy Server, press the **Discover IQNS** button, a list of targets in drop-down control is shown.

Select desired target in the list.

If the target you want to connect to has CHAP Authentication, check **Use CHAP** and input user name and secret.

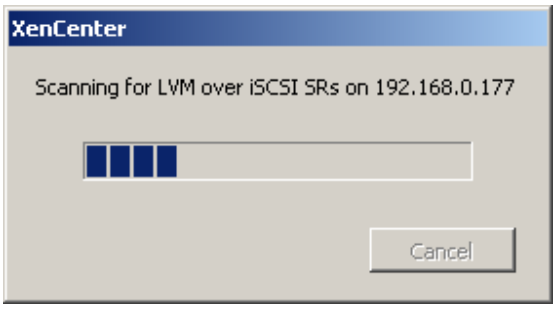
Press the **Discover LUNs** button.

The iSCSI Target now contains a valid LUN. Here we create a 20G image file device as a demo.

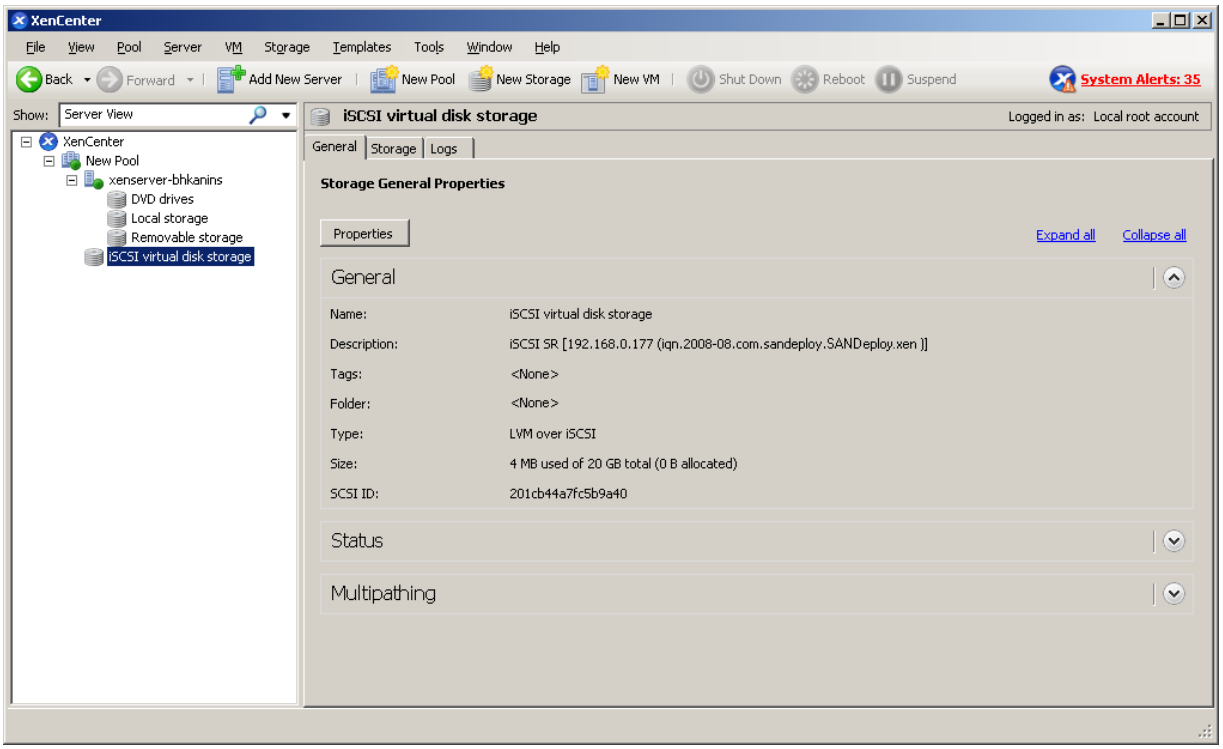
Press the **Finish** button to continue.

There will pop up a dialog, press the **Yes** button to proceed.

Now, XenServer is carrying on a series of operations, such as Creating SR, to create data structures required by data repositories.

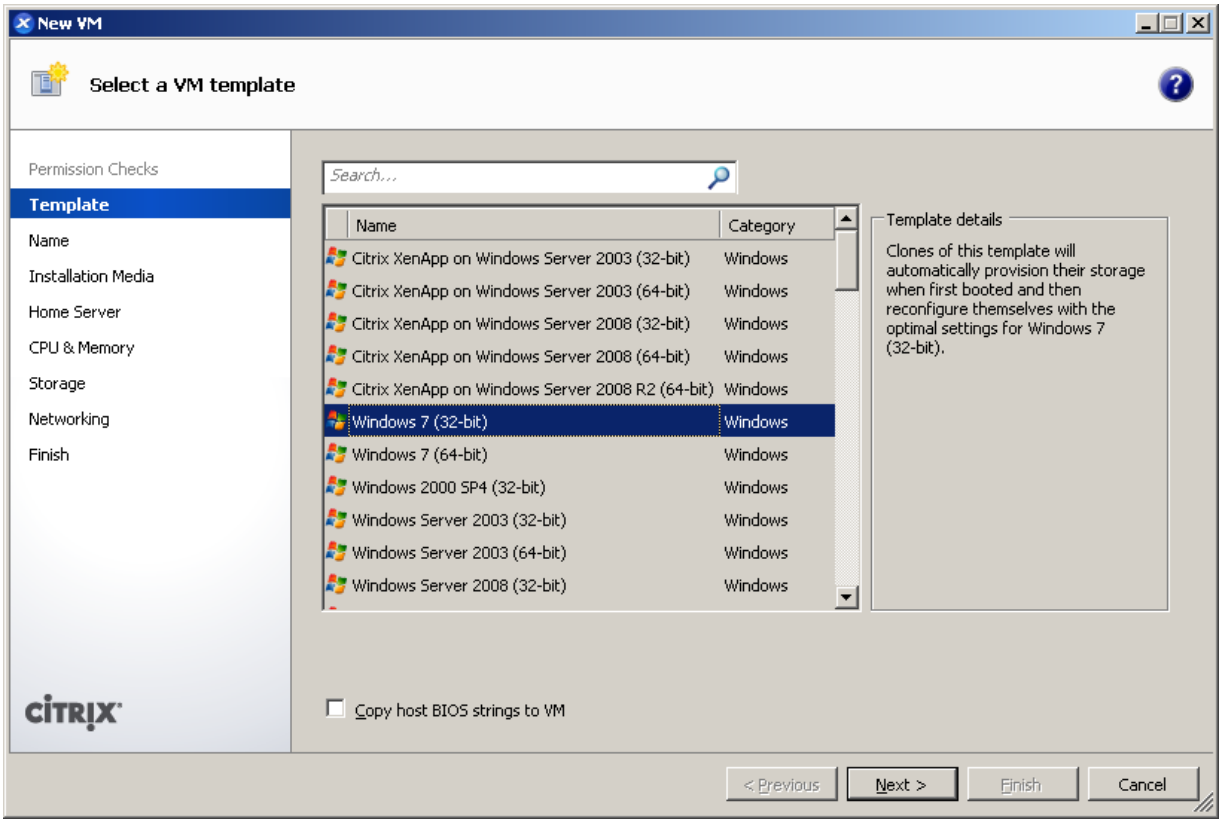



Sorted! You now see an iSCSI storage device successfully added into XenServer.




# Create Virtual Machine

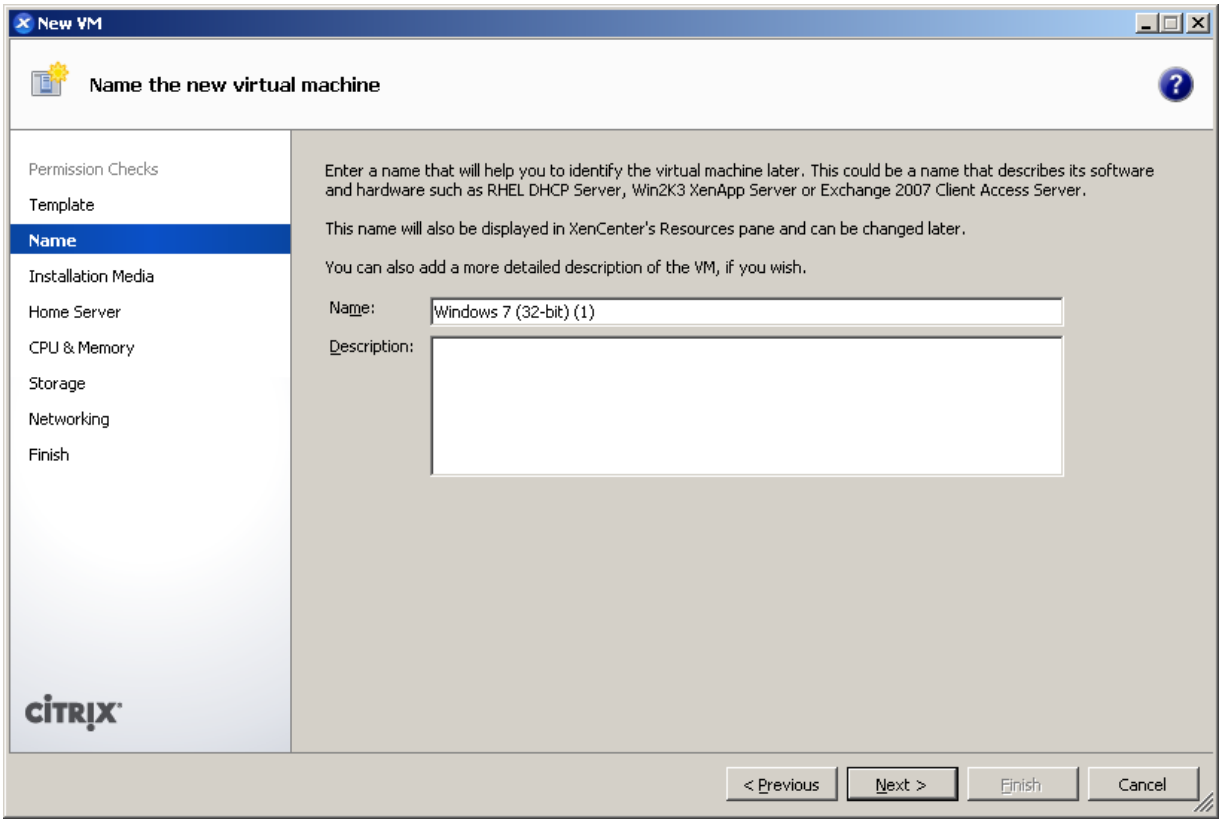
Click **New VM** on XenServer console, the **New VM** wizard appears.




Select **Windows 7(32-bit)** in the following wizard.

Press the **Next** button to continue.

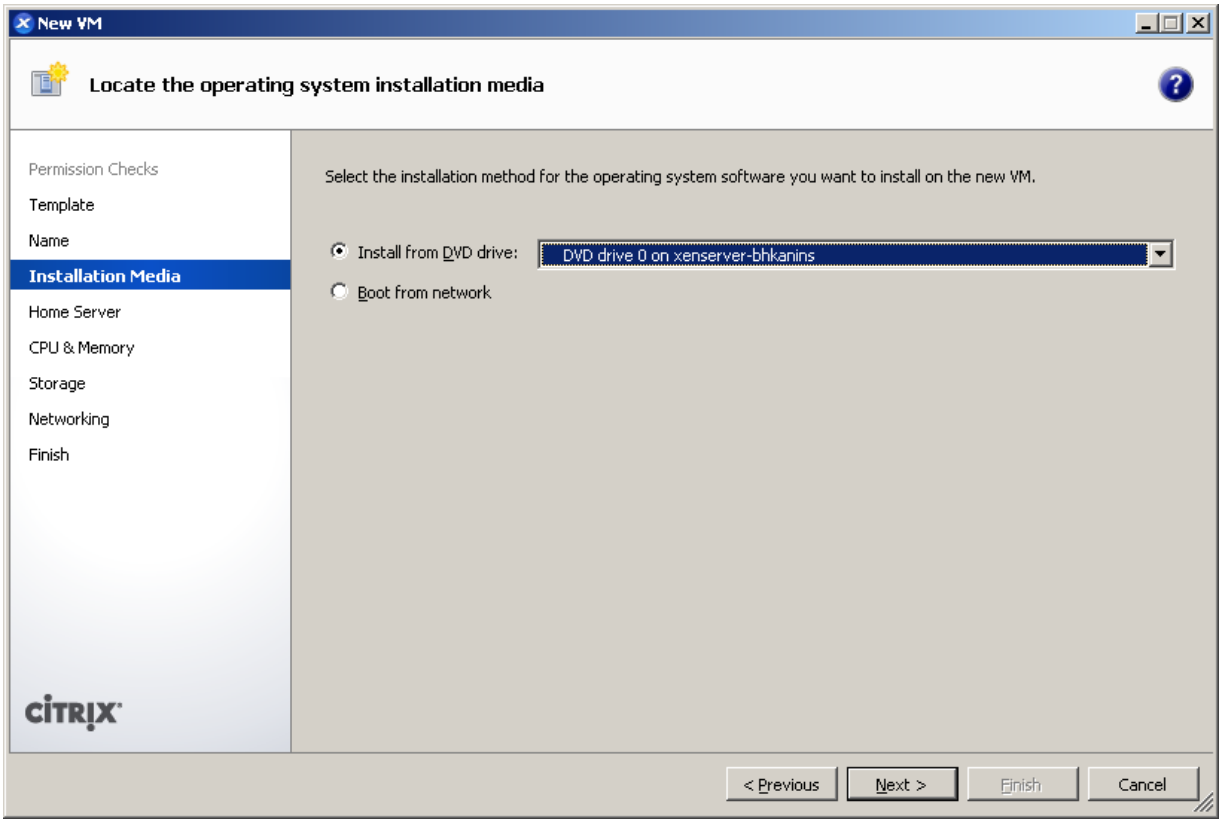
Specify the name




Input the desired name and description.

Press the **Next** to continue.

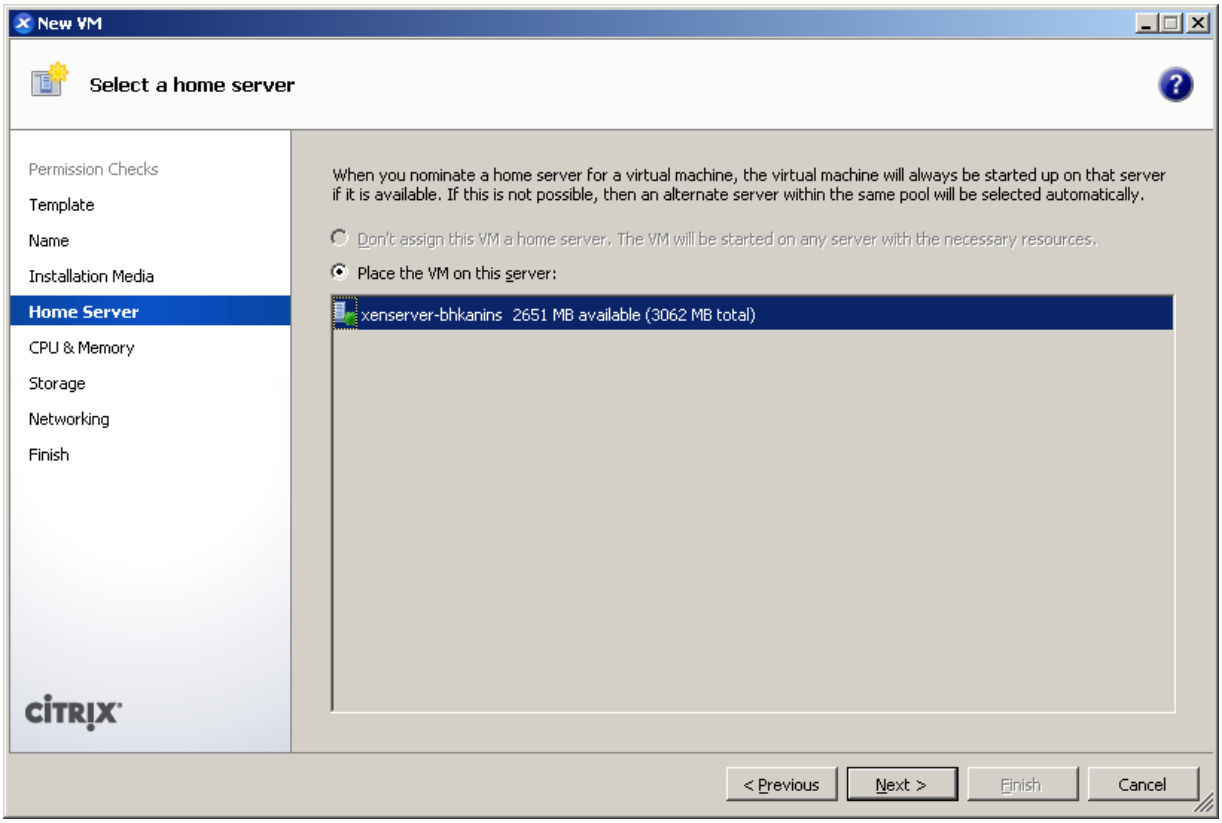
Select install Mode




Choose physical DVD Drive on XenServer.

Press the **Next** button to continue.

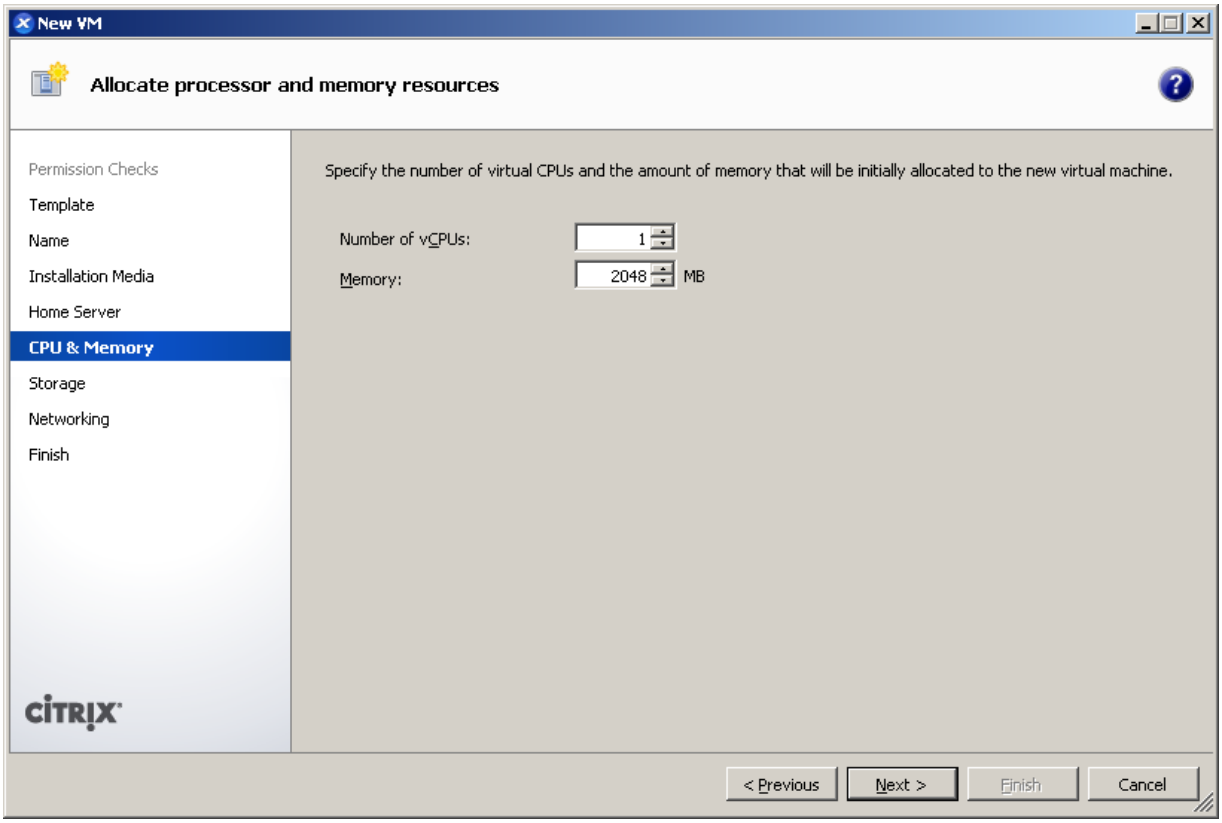
Select a home server.




Select server for running this VM.

Press the **Next** button to continue.

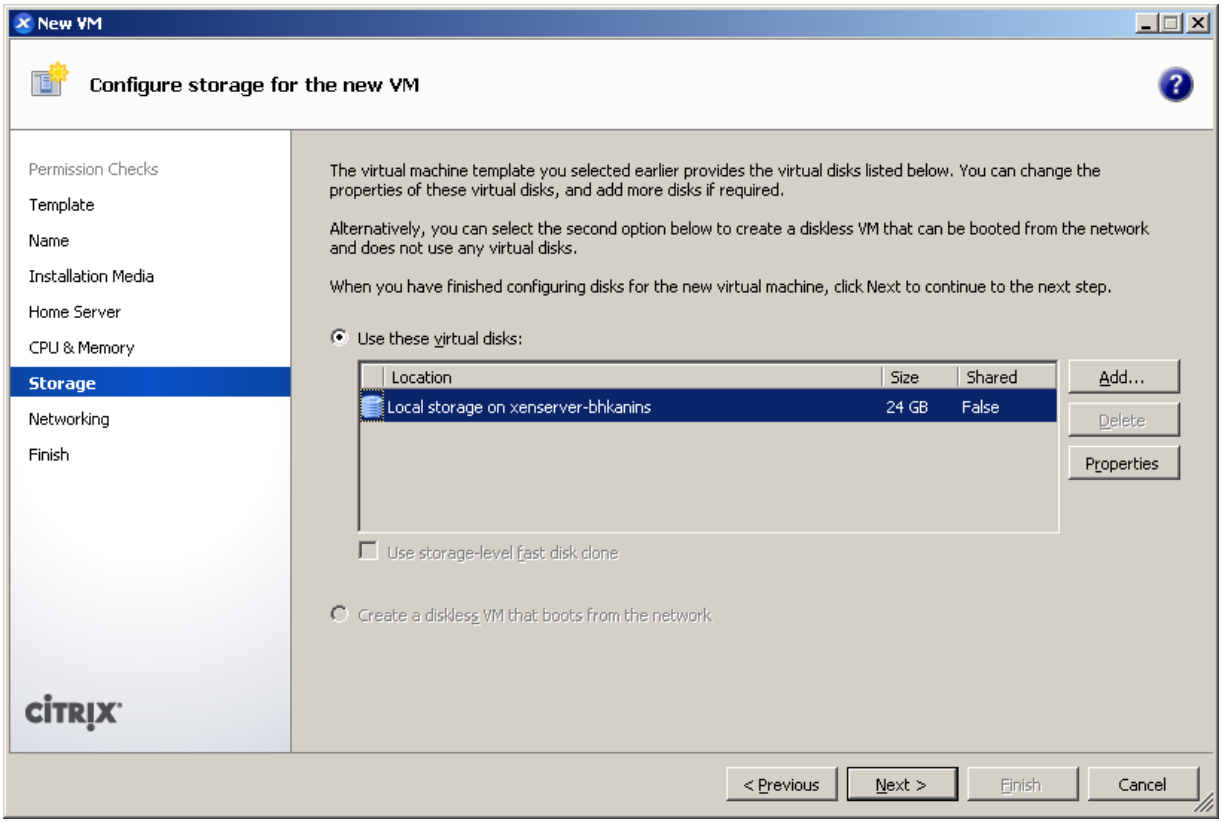
Allocate resources



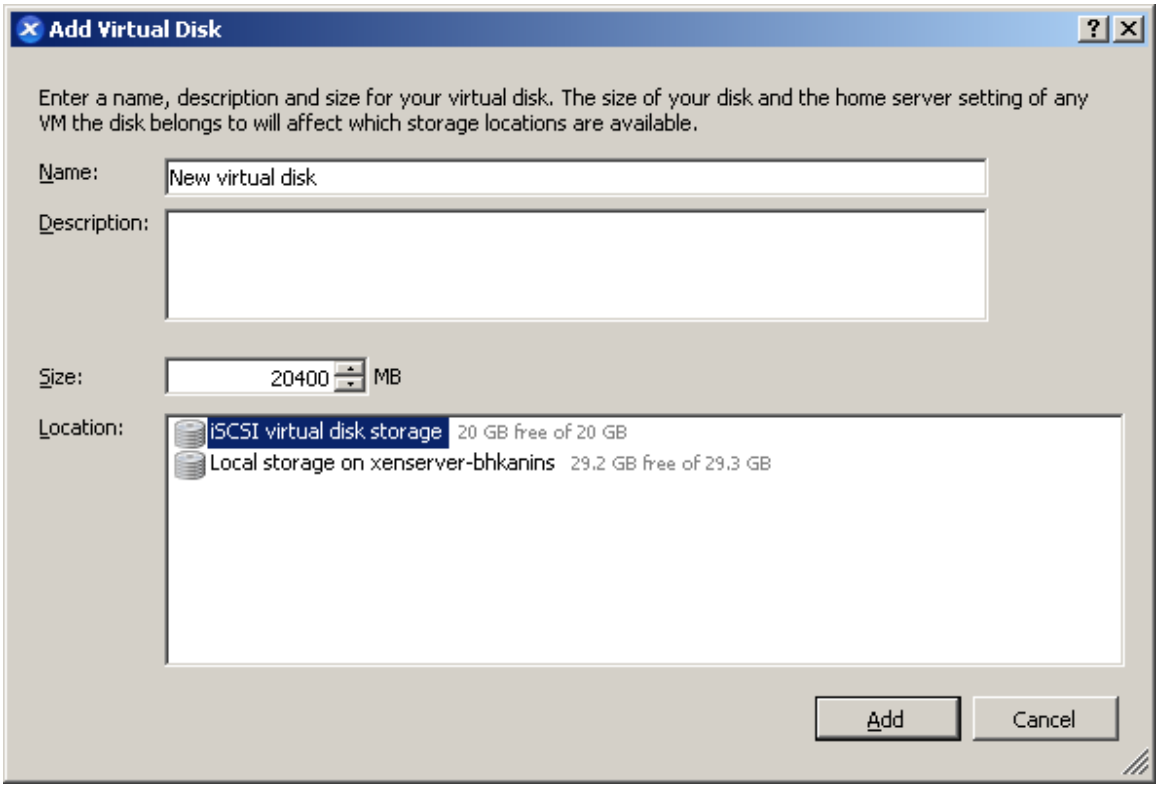

.Specify the number of CPUs and memory size.

Press the **Next** button to continue.

Select storage device.



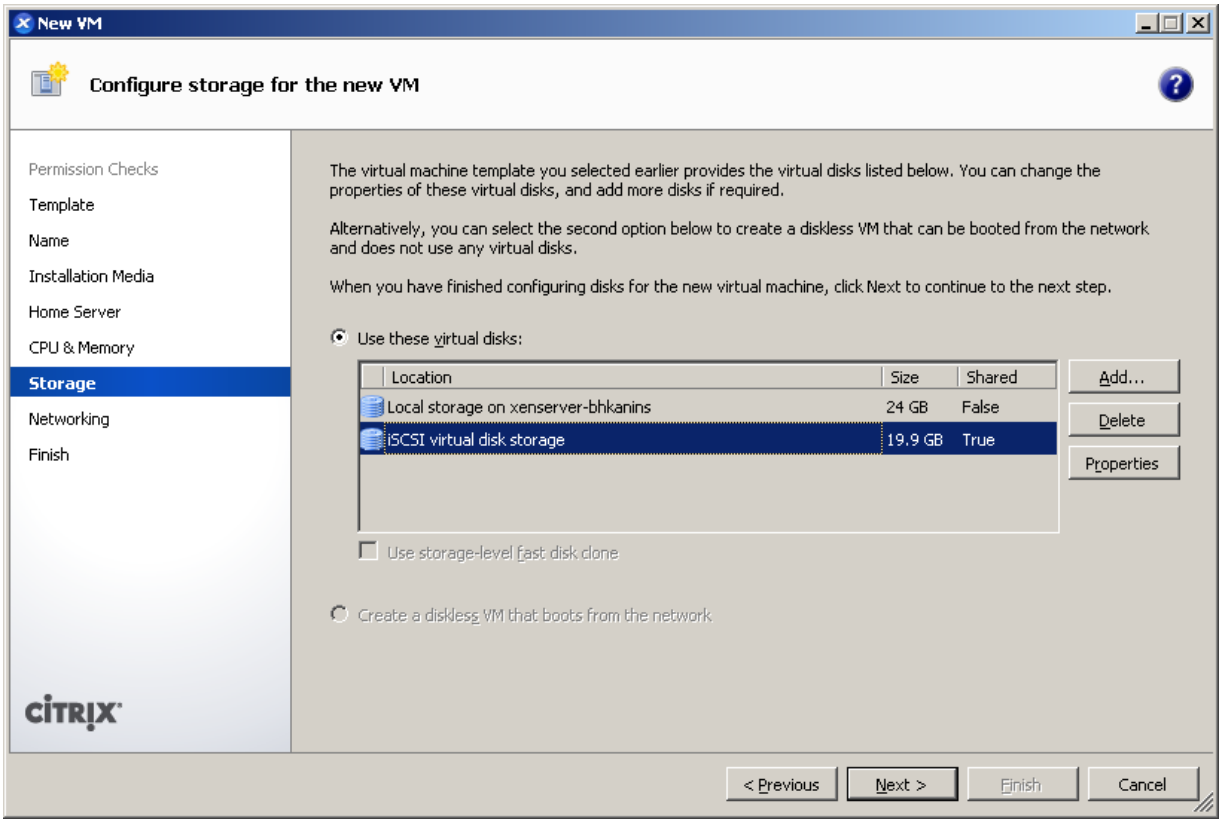

First you see an iSCSI Virtual disk storage device, which is the local storage on XenServer. It is XenServer's default storage device. If you want to add other virtual disk, press the **Add** button.




Select the storage you want to add.

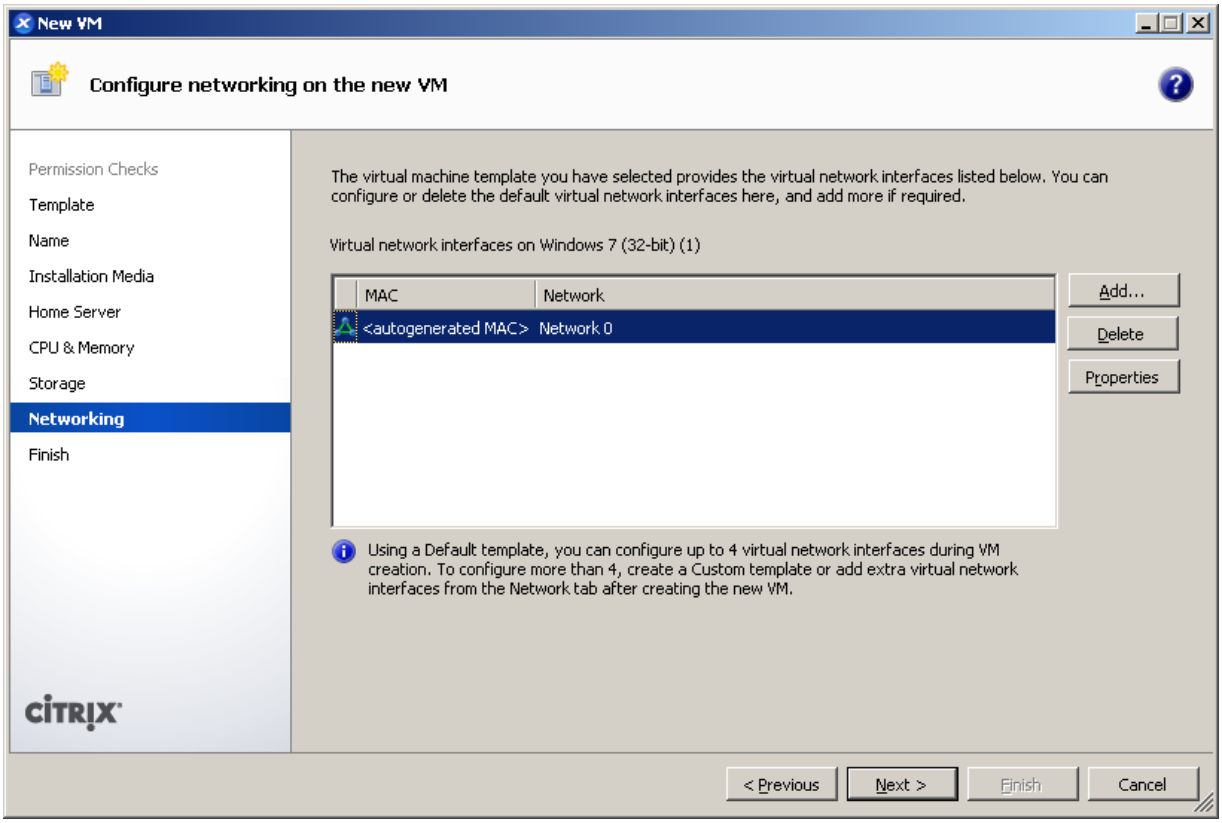
Specify the size of the new virtual disk.

Press the **Add** button to finish the wizard.




Select the storage you just add, and then press the **Next** button to continue.

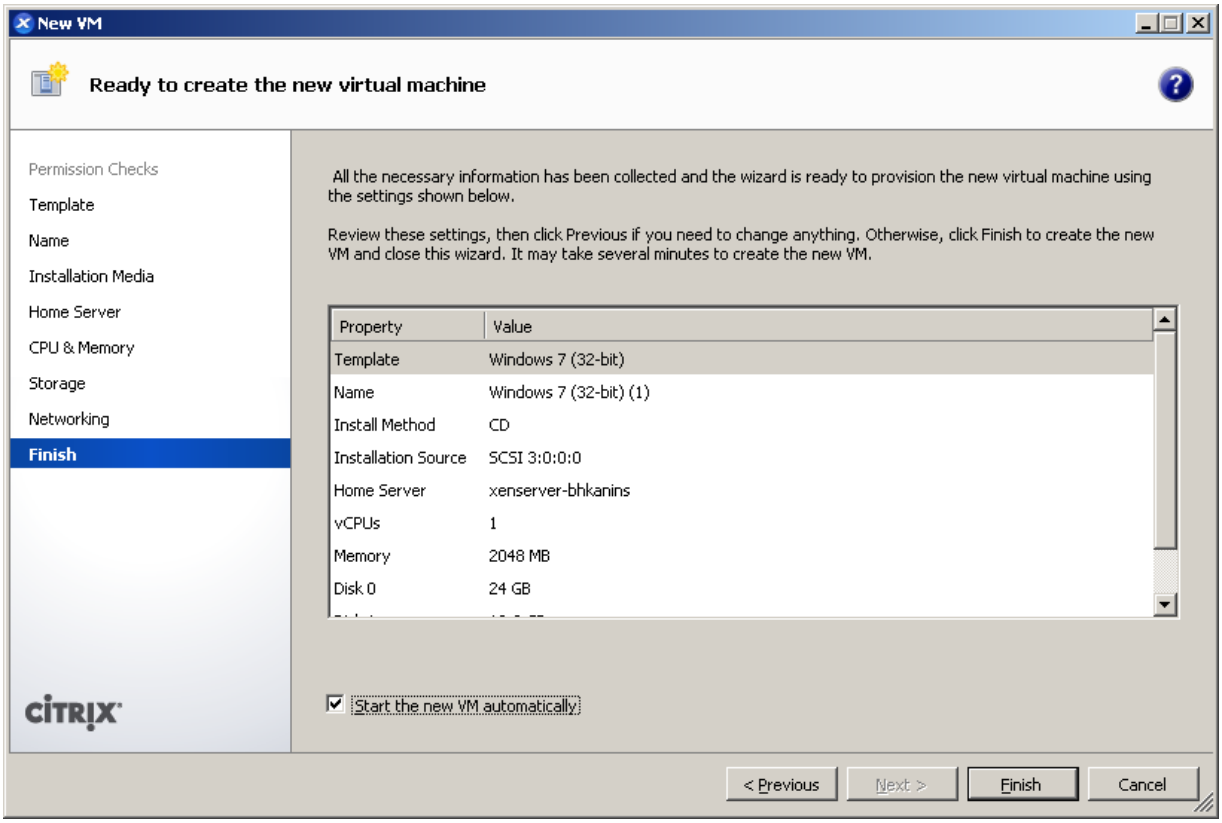
Networking settings for the VM




We use the default network.

Press the **Next** button to continue.

Finish the VM creating

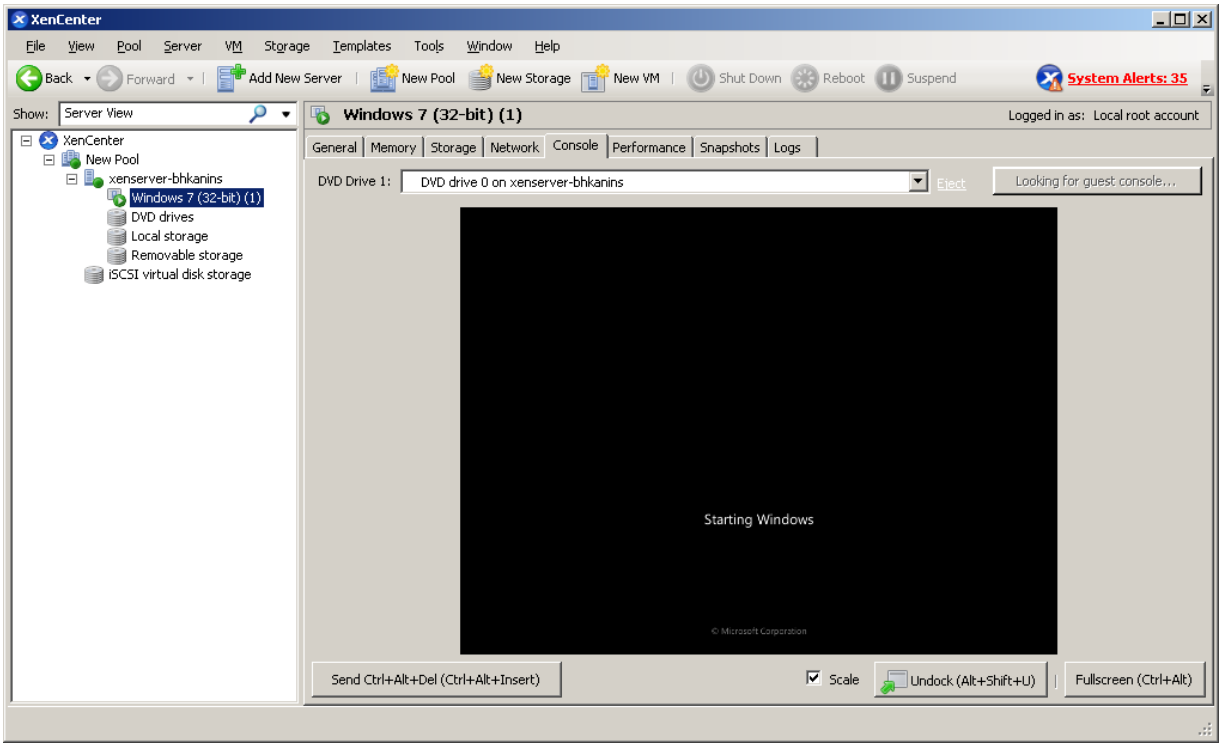



Press the **Finish** button to complete creating new virtual machine.

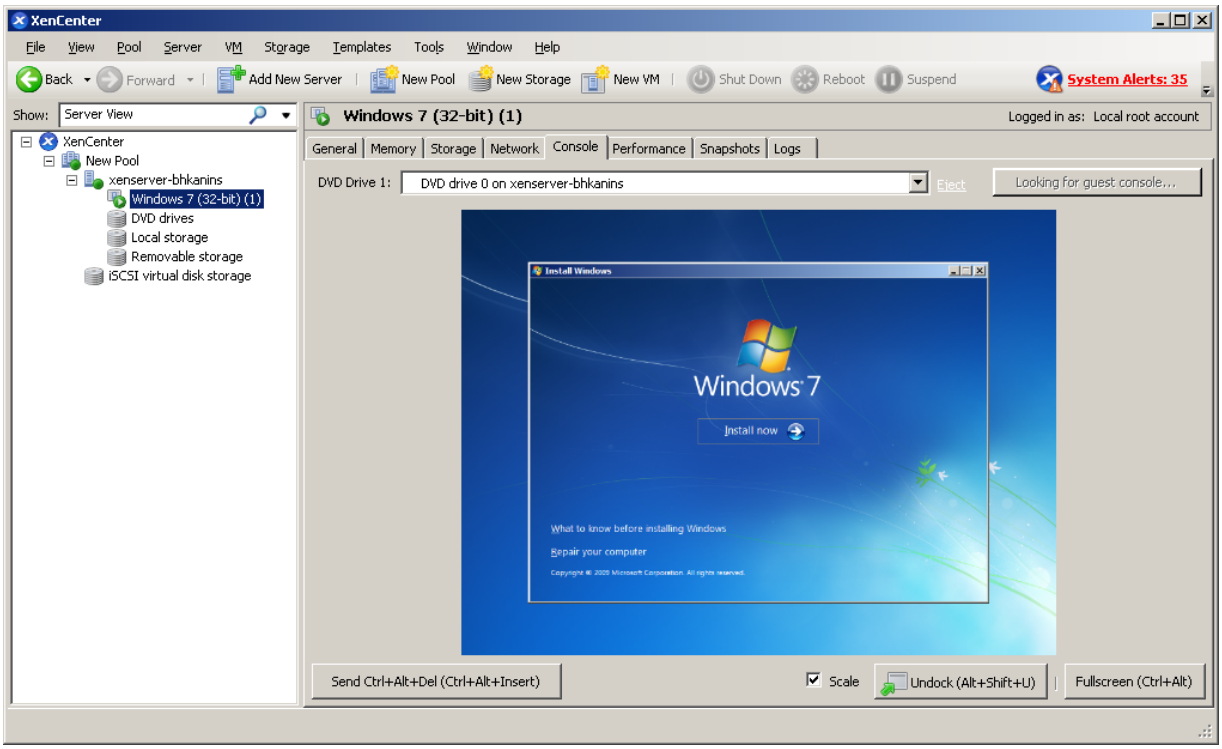
# Install Operation System

Run the virtual machine and set up the operating system.

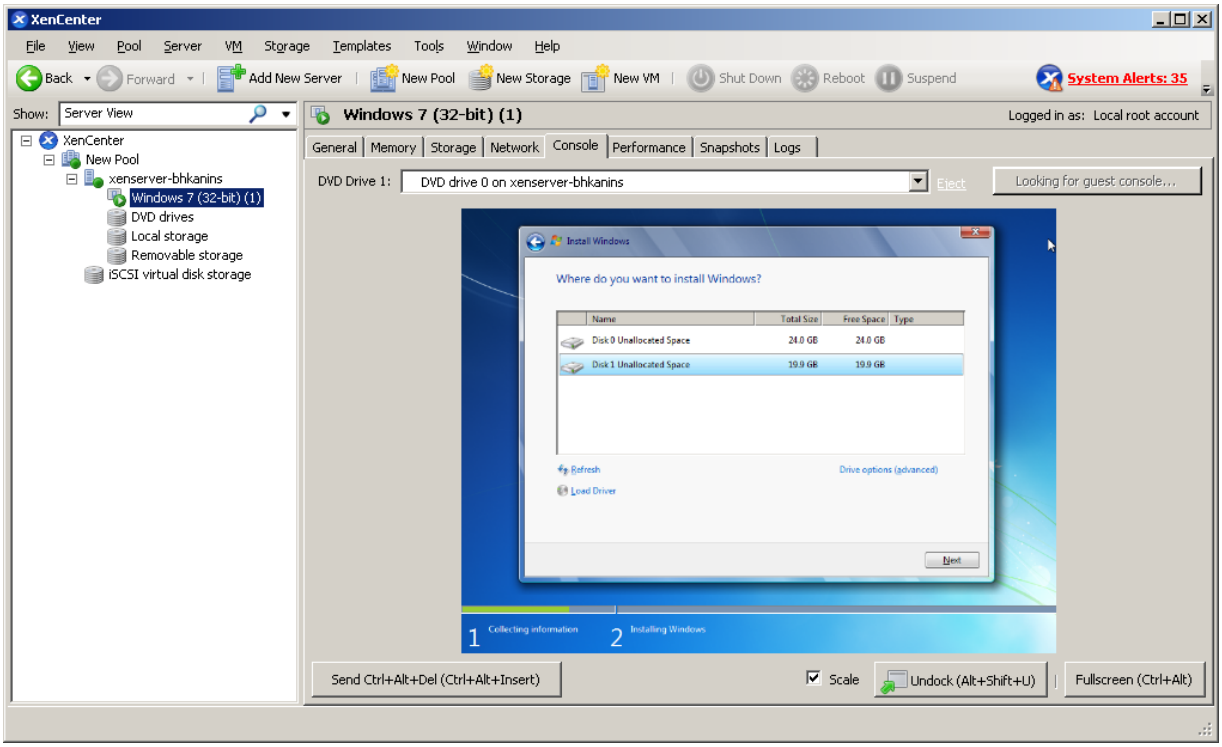
The process is just like that on real machine.



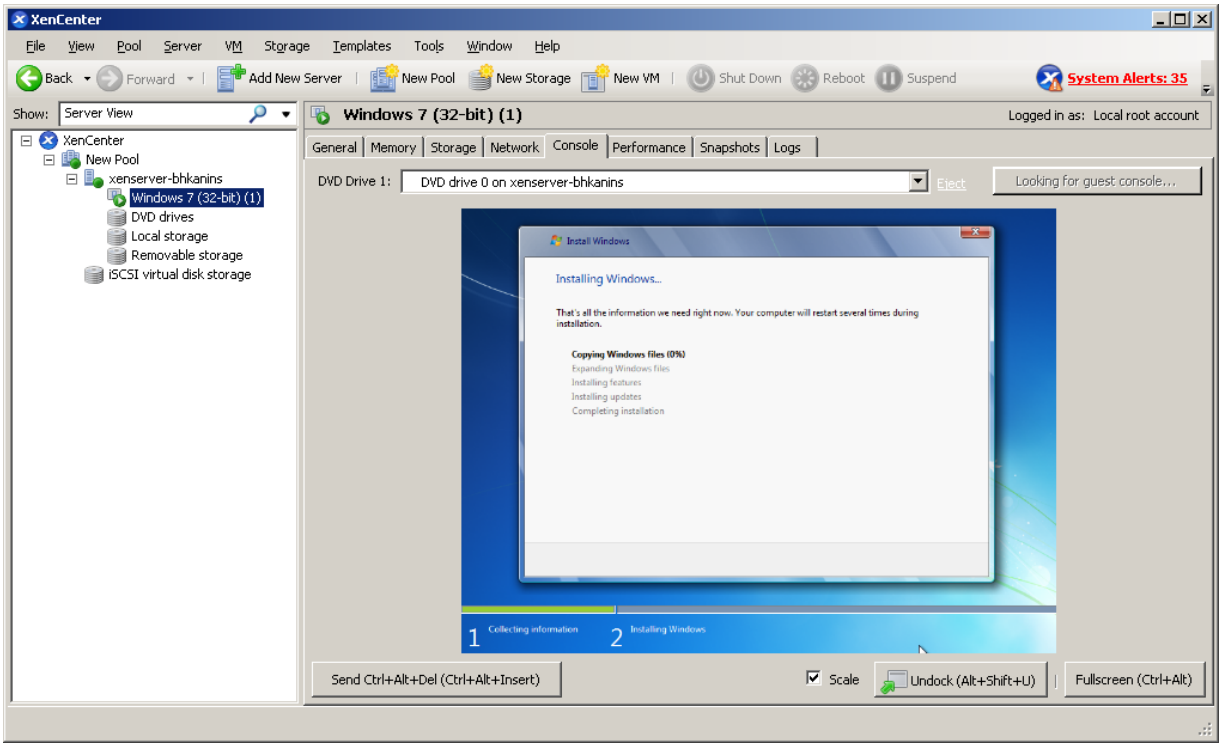

Press the **Install Now** button to install OS.

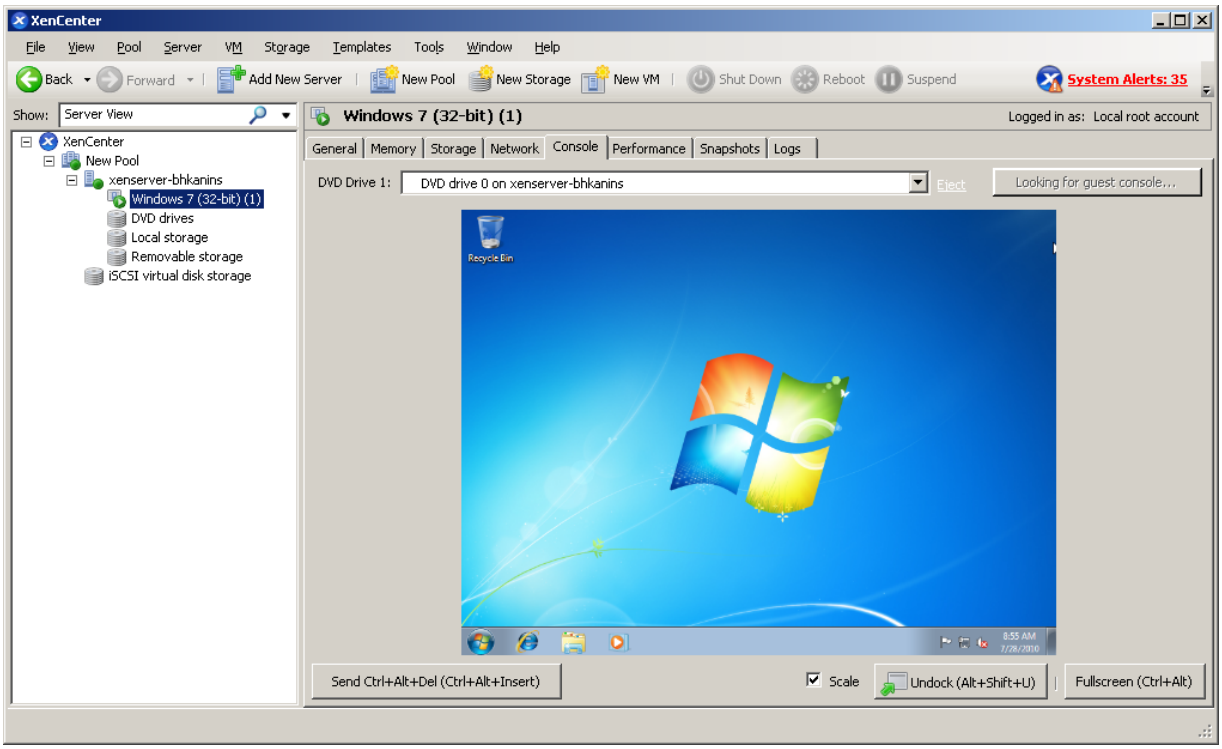


Select the 19.9G disk. Just like that on a real hard disk.




Setup starts copying files




Likewise, you may install Windows Server 2003, Windows XP, Vista and Windows Server 2008, or even any version of Linux as you wish.

# Contact

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