Procedure

To install, import and configure the NetScaler VPX instance, complete the following procedure:

1. Installing and Configuring ESXi 4.0 on the Server
2. Deploying a NetScaler VPX Instance
3. Adding More Ports to the NetScaler VPX VM
4. NetScaler VM Shutdown Procedure

## Installing and Configuring ESXi 4.0 on the Server

If you do not have a server with VMware ESX 4.0 installed, then you can get a 60 day evaluation version of VMware ESX 4.0:

1. Make a CD of the EXSi 4.0 VMVisor evaluation (60 day) installer located at http://www.vmware.com/products/esxi/.
2. Open the VGA console and install the .iso on the server. The installation takes about 40 minutes.
   Note: You must change the BIOS to enable virtualization.
3. After the installation is complete, open the VGA console to configure the IP address of the hypervisor.
4. Install the vSphere client on the Windows workstation or server. You can download the client from http://www.vmware.com/products/esxi/.
5. After the installation is complete, use the IP address of the hypervisor (username = root, blank password) to access the client. If the vSphere client and hypervisor are separated by a firewall, then you must open TCP ports 80, 443, and 902.
6. On the vSphere client, select the **Configuration** tab.
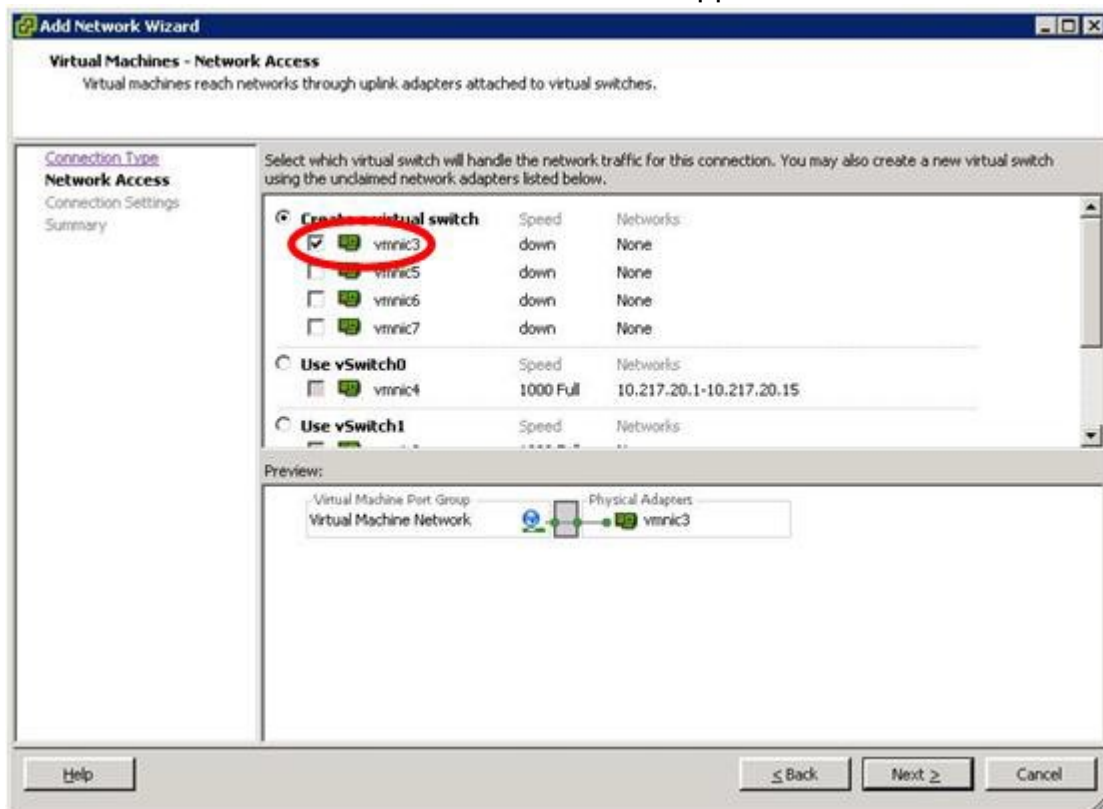7. Click **Networking**.
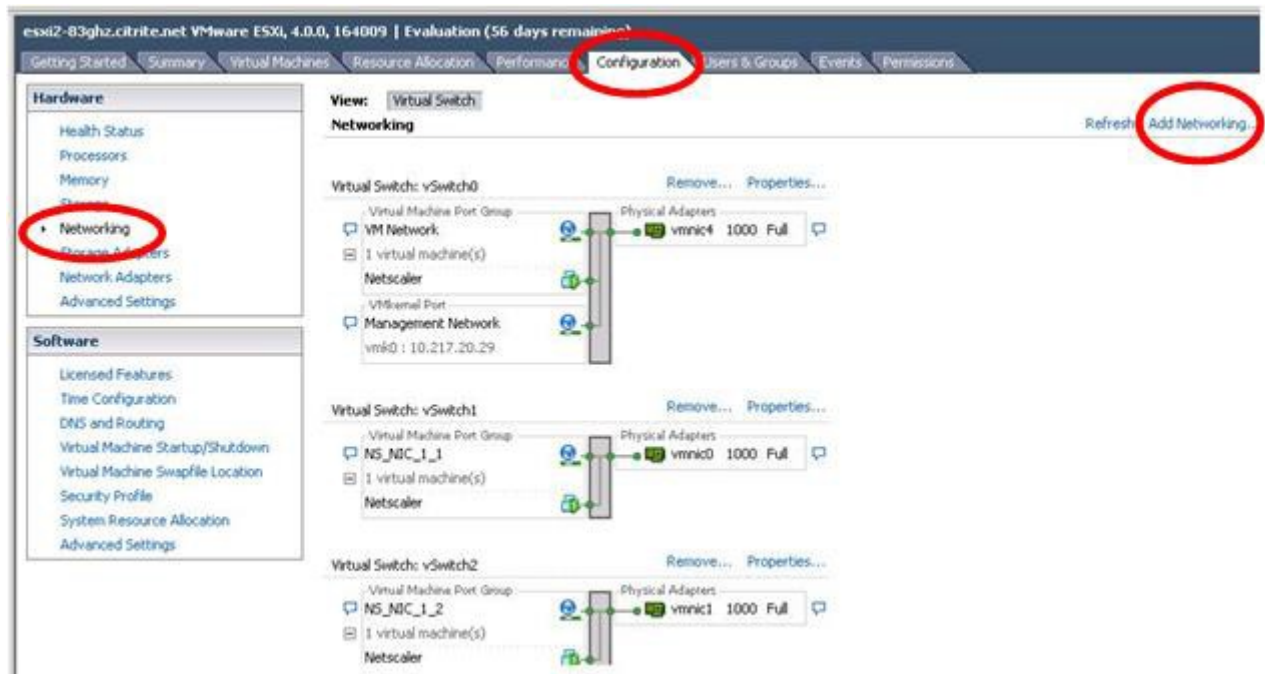
8. Click on **Add Networking** on the top right corner to start the Add Network Wizard.
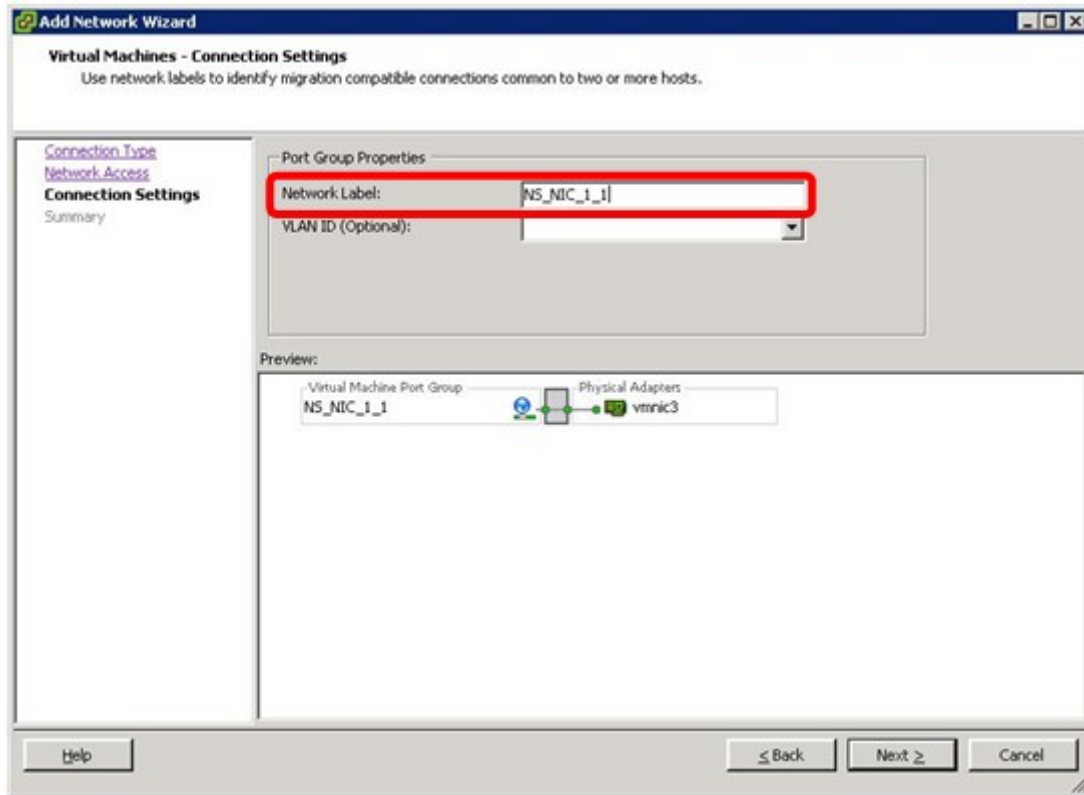9. Select **Virtual Machine** as the Connection Type.

10. Click **Next**.
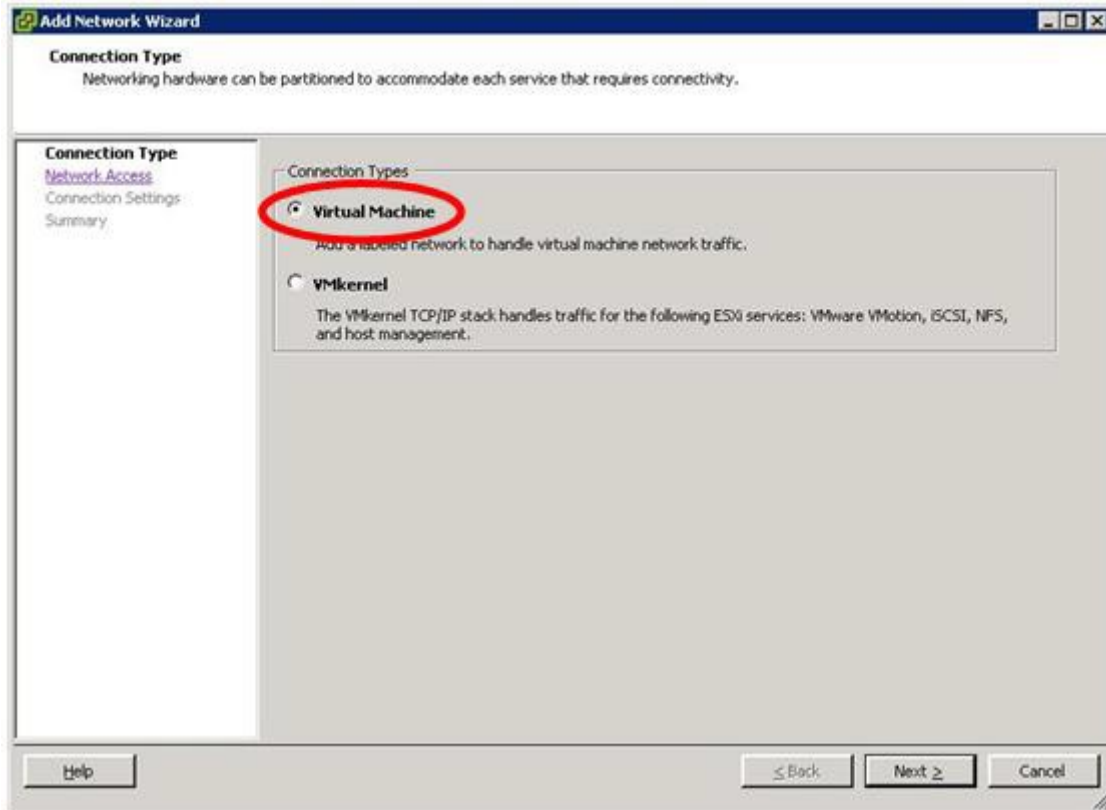
11. Scroll down the list of vSwitch physical adapters and select the physical port to map to interface 1/1 on the NetScaler VPX virtual appliance.

12. Enter a name for the vSwitch to associate with interface 1/1 of the NetScaler VPX VM, for instance **NS_NIC_1_1**.

13. Click **Next** to finish the vSwitch creation.
14. Repeat steps 6 through 13 to add additional interfaces for the NetScaler VPX virtual appliance to use. When adding a second interface, select another physical adapter and create a unique name label such as NS_NIC_1_2.
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Deploying a NetScaler VPX Instance

1. A NetScaler VPX instance for VMware ESX VM follows the Open Virtual Machine format standard. You can download the necessary files from My Account on Citrix.com. If you do not have My Account on Citrix.com credentials, then access the home page at www.citrix.com/account click the Log In link and follow the instructions for New Users.
NetScaler VPX Platinum Evaluation/VMware ESX Tech Preview download page
https://www.citrix.com/English/ss/downloads/details.asp?downloadId=1857217&productId=21679

Or follow this path from the My Account on Citrix.com home page:
My Account on Citrix.com > Downloads > NetScaler > NetScaler VPX Platinum Evaluation/VMware ESX Tech Preview

Copy the following three files to a location on the same network as the hypervisor. You must copy all files into the same folder.

- NetScaler-VPX-disk1.vmdk   or   NetScaler-VPX-disk1.vmdk.gz
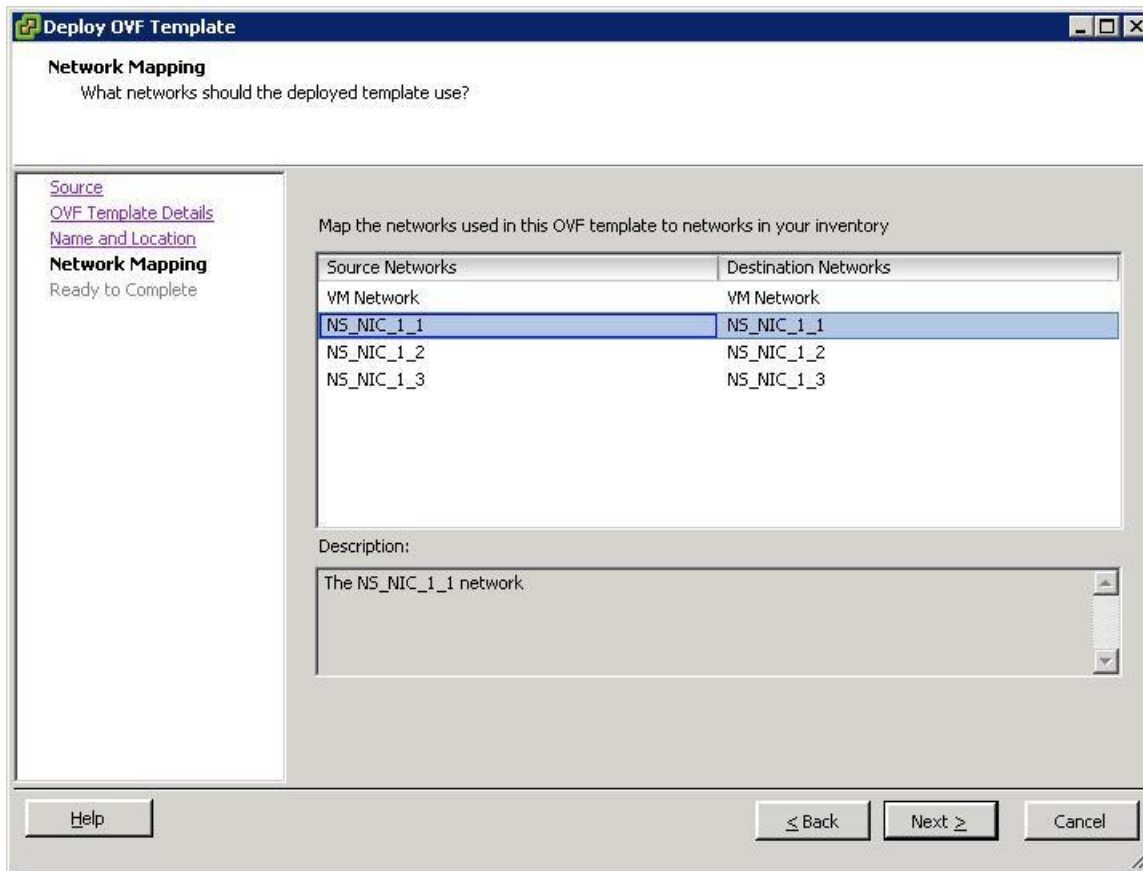- NetScaler-VPX.ovf
- NetScaler-VPX.mf

2. On the vSphere client, select the **Virtual Machine** tab.
3. Select **File** > **Deploy OVF Template** > **Deploy from file** and browse to the location of the .ovf file downloaded in step 1.
4. Click **Next**.
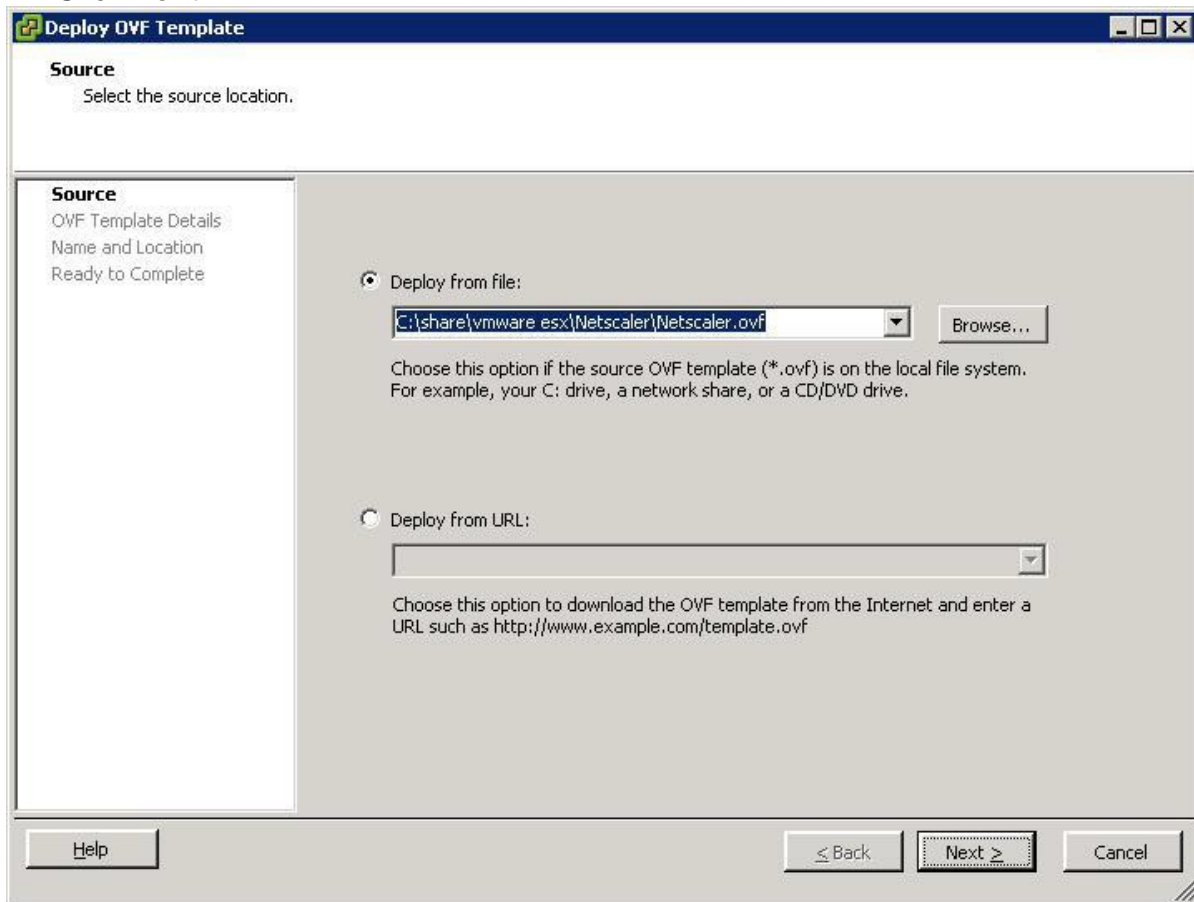
5. In the **Network Mapping** screen, verify if the NetScaler VPX instance networking information matches that of the hypervisor. Initially, one NetScaler VPX interface (NS_NIC_1_1) is sufficient.
In the following example, the VM Network maps to port 0/1 on the NetScaler VPX instance, which is same port used for hypervisor management. The current NetScaler VPX for ESX virtual appliance supports up to four interfaces, including the management port 0/1.

After deployment, you can change the number of ports assigned to the NetScaler VPX. When adding interfaces to the NetScaler VPX VM, you must allocate a new license from the My Account on Citrix.com licensing portal and copy it to the virtual appliance. You can download evaluation licenses any number of times during the Tech Preview. For more information on licensing NetScaler VPX products, see CTX122426 - Citrix NetScaler VPX and CloudBridge VPX Licensing Guide.

Click **Next**.

After successful deployment the following screen appears. A pop-up Window reports success as well.

Netscaler

Getting Started | Summary | Resource Allocation | Performance | Events | Console | Permissions

close tab

What is a Virtual Machine?

A virtual machine is a software computer that, like a physical computer, runs an operating system and applications. An operating system installed on a virtual machine is called a guest operating system.

Because every virtual machine is an isolated computing environment, you can use virtual machines as desktop or workstation environments, as testing environments, or to consolidate server applications.
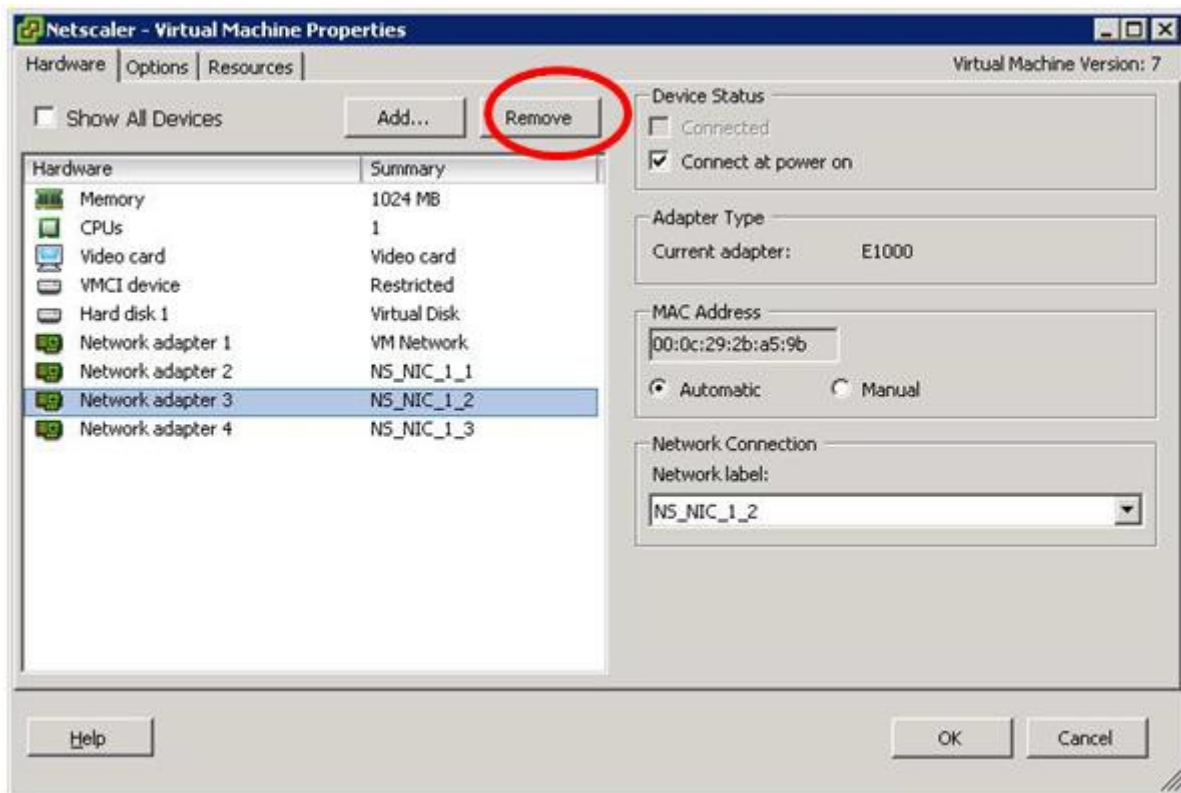
Virtual machines run on hosts. The same host can run many virtual machines.
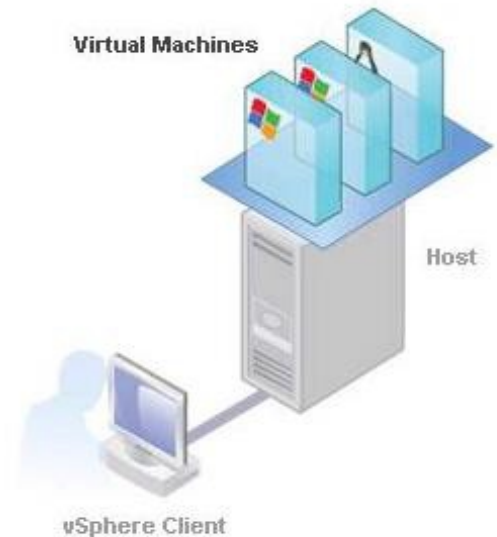
Basic Tasks

▷ Power on the virtual machine

Edit virtual machine settings

Virtual Machines

Host

vSphere Client

If you do not need more than two ports (0/1 and 1/1), then you can remove the unwanted ports from the Virtual Machine tab (select Properties).

6. You are now ready to start the NetScaler VPX for ESX virtual appliance. Start the VM and click on the **Console** tab to emulate a console port. You are prompted with a Configuration Wizard. Follow the prompts to provide the necessary network addresses. When finished, login with the default credentials: nsroot / nsroot.

7. To fully utilize the platinum edition features of the NetScaler VPX, you must copy a license to the virtual appliance. For instructions on NetScaler VPX license allocation and installation, see CTX122426 - [entryID]CTX122426[/entryID]. Citrix recommends you use the NetScaler VPX-1000 Platinum 90 day Evaluation license for the Tech Preview. You can download this license from: https://www.citrix.com/English/ss/downloads/details.asp?downloadId=1857217&productId=21679

8. For further instructions to configure the NetScaler VPX virtual appliance, see CTX121819 - [entryID]CTX121819[/entryID].
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Adding More Ports to the NetScaler VPX VM

1. Follow the instructions in the [Installing and Configuring ESXi 4.0 on the Server](#) section to add vSwitches and NetScaler VPX ports (NS_NIC_1_2... NS_NIC_1_3).
2. Follow the steps in the [NetScaler VM Shutdown Procedure](#) section to shut down the NetScaler VPX instance.
3. After shutdown, open the **Virtual Machines** tab.
4. Select the **NetScaler VPX VM** and click **Properties**.
5. Click **Add**.
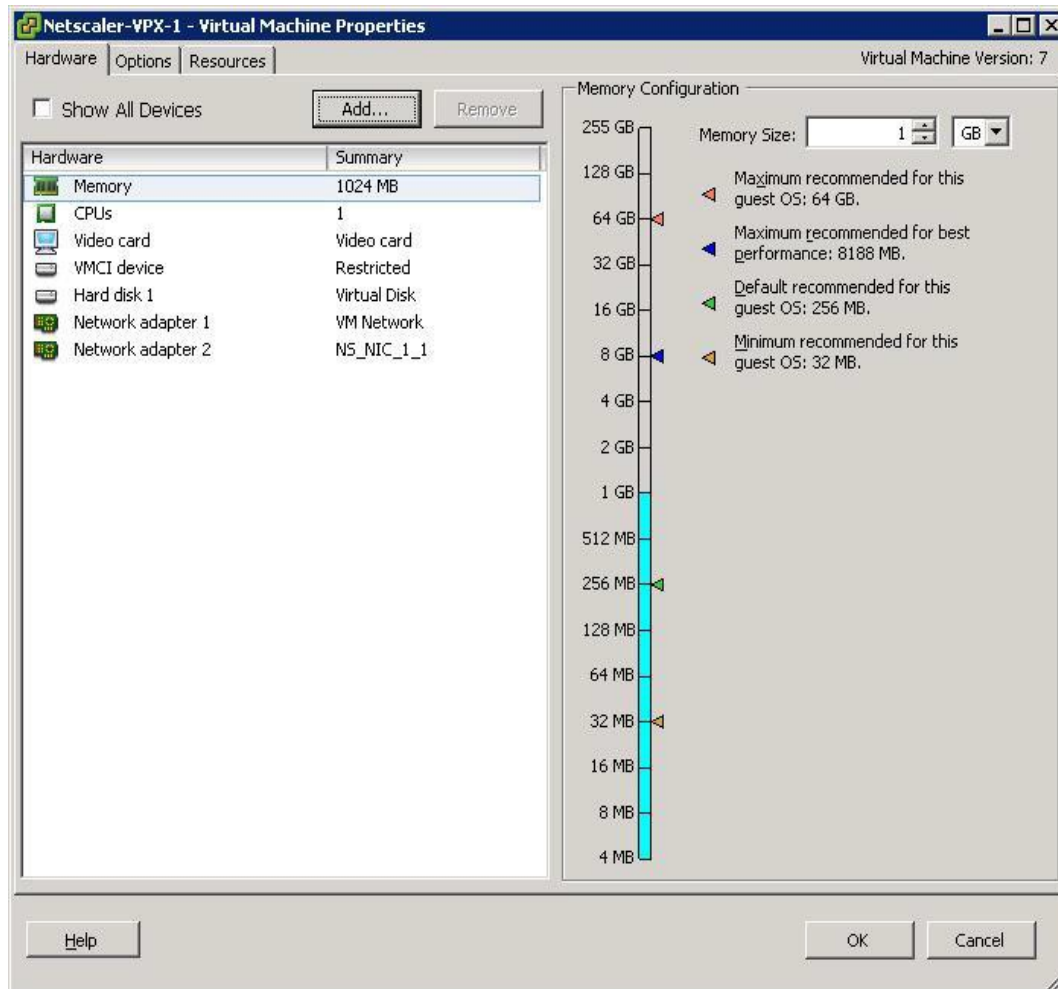
6. Select the appropriate device type (Ethernet Adapter). Click **Next**.
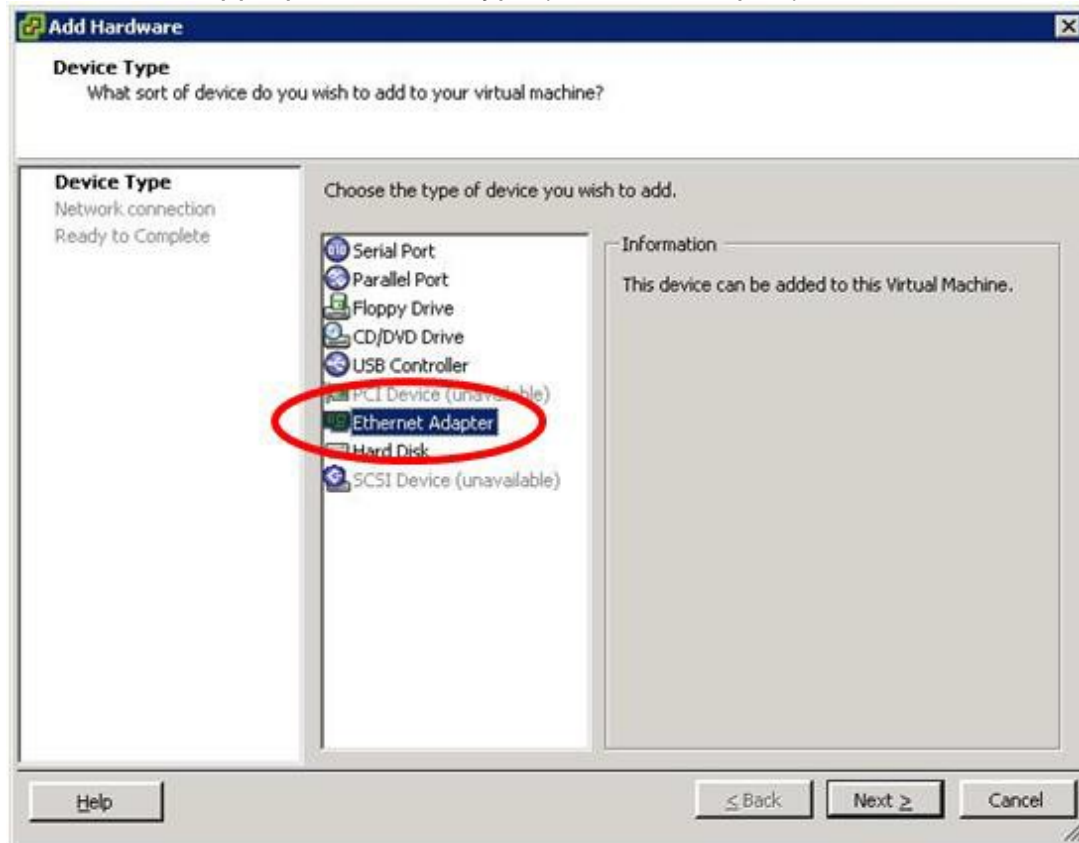
7. Enter the type of adapter (1Gbps) and the correct Network Label which is being added (NS_NIC_1_2). Click **Next**.

8. Ensure that the new network adapter is successfully added. Click **OK**.
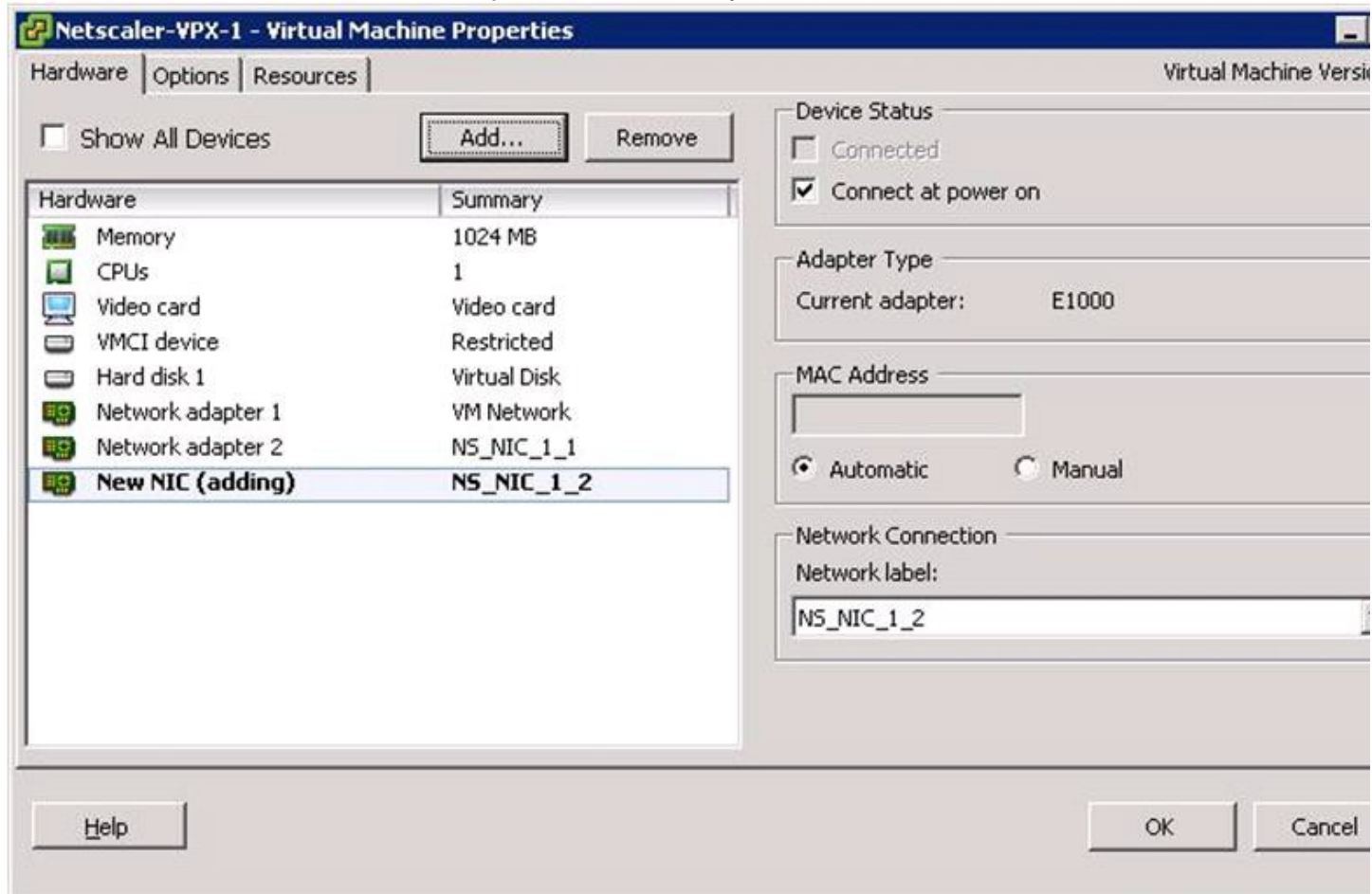
NetScaler VM Shutdown Procedure

1. From the console, type **save config** at the command line interface of the NetScaler VPX instance.
2. Switch to the shell prompt.
3. Type **halt** and wait for the "Please press any key to reboot" message on the screen.
4. From the vSphere client, select the NetScaler VPX VM and click **Power off (Ctrl+E)**.