

Quick Start Guide

VX

· VIRTUAL APPLIANCES ·

Microsoft Hyper-V Hypervisor

· Router Mode ·
(Out-of-Path Deployment)

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Before You Begin

- ☒ Comply with the [VX Virtual Appliance Host System Requirements](#) [PN 200566-001]
- ☒ Download the virtual appliance ISO file to the Hyper-V host disk:
 - For a 30-day free trial, go to the [Silver Peak Marketplace](#).
 - If you've purchased the product, then log in at the [Silver Peak Support portal](#).
- ☒ Obtain a VX virtual appliance activation license key
- ☒ Collect the IP addresses for:
 - **mgmt0** [if not using DHCP, then also the default gateway for mgmt0]
 - **wan0** (Appliance IP)
 - Next-hop IP



Silver Peak

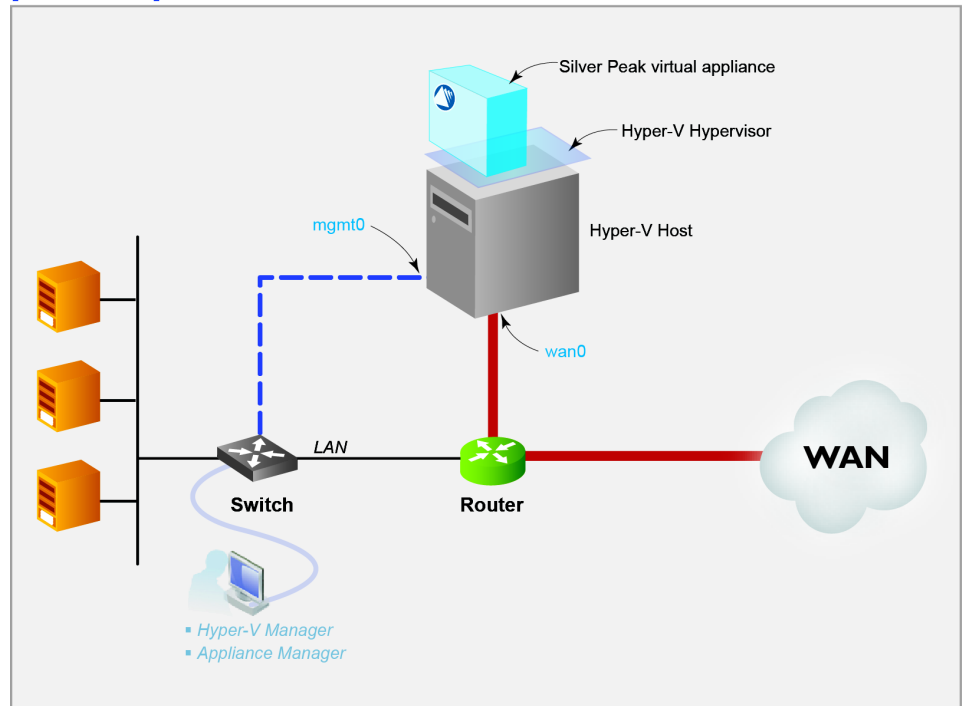
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PN 200548-002 Rev D » R6.2

If you're not using **Microsoft Hyper-V 2012**, your screens may vary.

Host with Silver Peak VX appliance [Router Mode]



This Quick Start Guide only covers Router mode, which uses **wan0** for data traffic.

SUMMARY OF TASKS

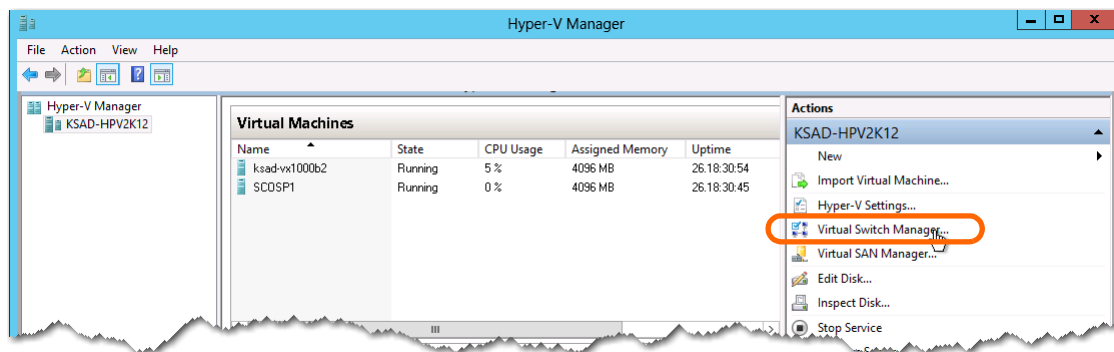
- 1 Create the virtual networks
- 2 Create the virtual machine
- 3 Configure the virtual machine
- 4 Establish connectivity to the virtual machine
- 5 Add network adapter to the virtual machine
- 6 Run the Appliance Manager initial configuration wizard

Create the virtual networks

Now, you'll create a virtual networks for **mgmt0** and **wan0**.

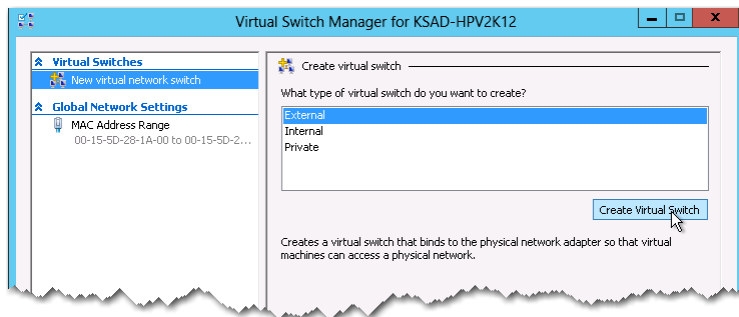
First, **mgmt0**.

- a. In the Hyper-V Manager, click **Virtual Switch Manager**.

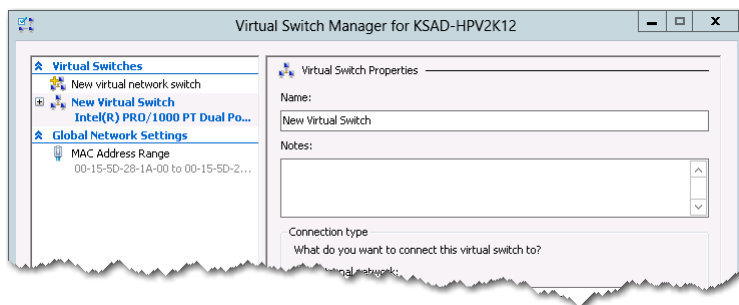


The Virtual Switch Manager appears.

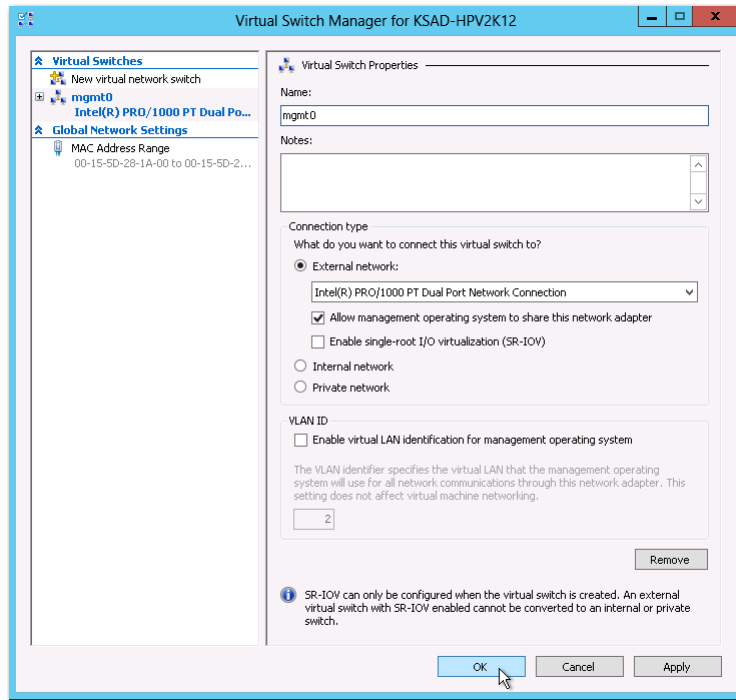
- b. Select **External** and click **Create Virtual Switch**.



A new virtual switch appears in the left pane, with **Virtual Switch Properties** in the right pane.



- c. Enter (or select) the following:



Name: `mgmt0`

External network:

- [select your appropriate network from the drop-down list]
- **Allow management operating system to share this network adapter**

- d. Click **OK**. The changes are applied and the window closes.

You've just created the virtual switch for **mgmt0**.

- e. Now, use the same procedure to create a virtual network for **wan0**.
A summary of the sequence follows:

- ☐ In the Hyper-V Manager, click **Virtual Switch Manager**.
The Virtual Switch Manager appears.
- ☐ Select **External** and click **Create Virtual Switch**.
A new virtual switch appears in the left pane, with **Virtual Switch Properties** in the right pane.
- ☐ Enter (or select) the following:

Name: `wan0`

External network:

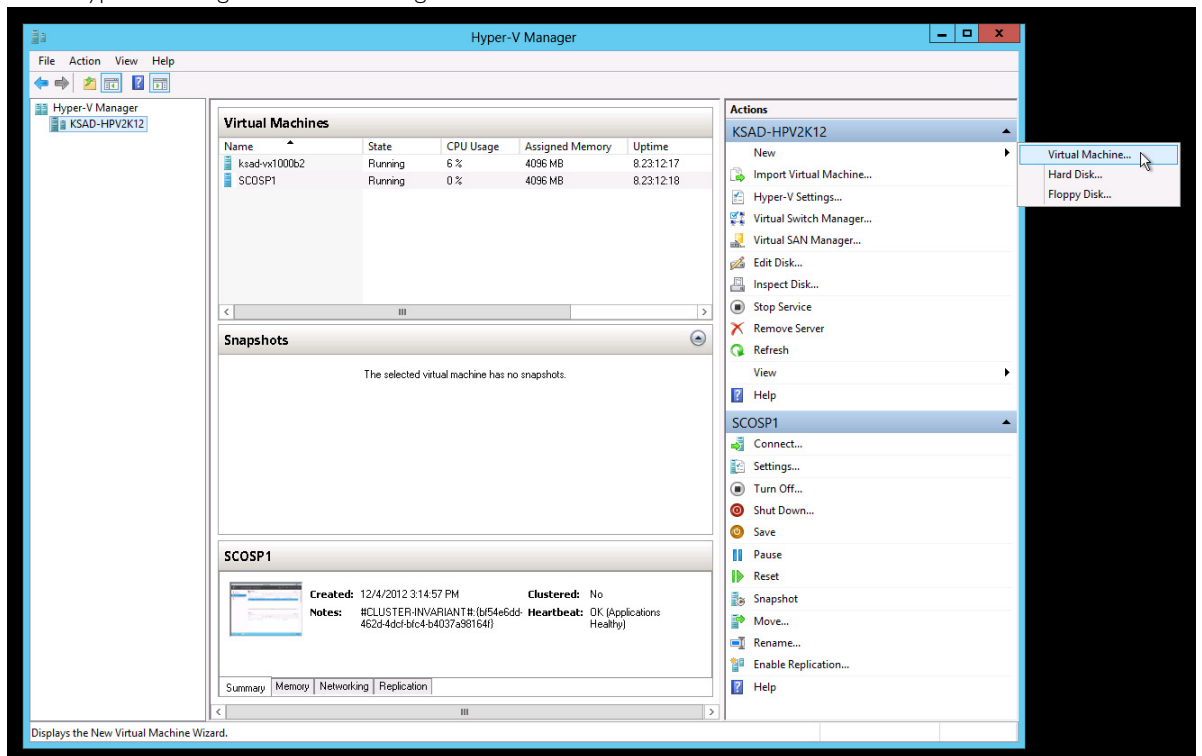
- [select your appropriate network from the drop-down list]
- **Allow management operating system to share this network adapter**

- ☐ Click **OK**. The changes are applied and the window closes.

You've just created the virtual switch for **wan0**. Now you'll create the virtual machine.

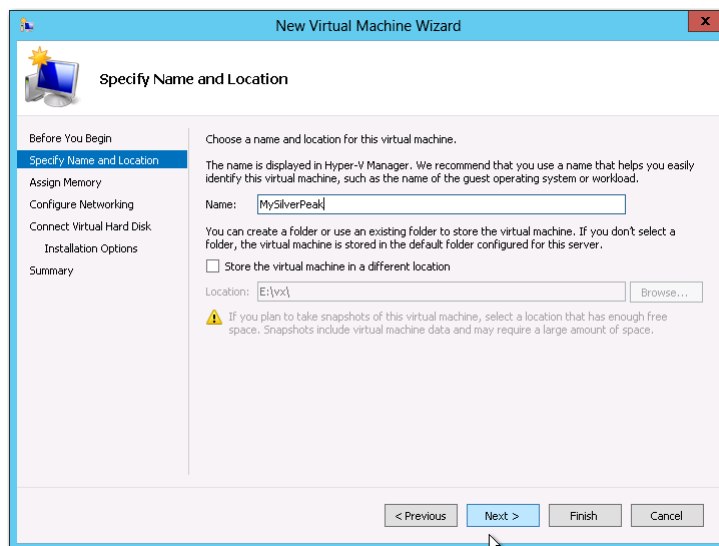
2 Create the virtual machine

- a. In the Hyper-V Manager, select the host, go to the **Actions** section, and select **New > Virtual Machine**.

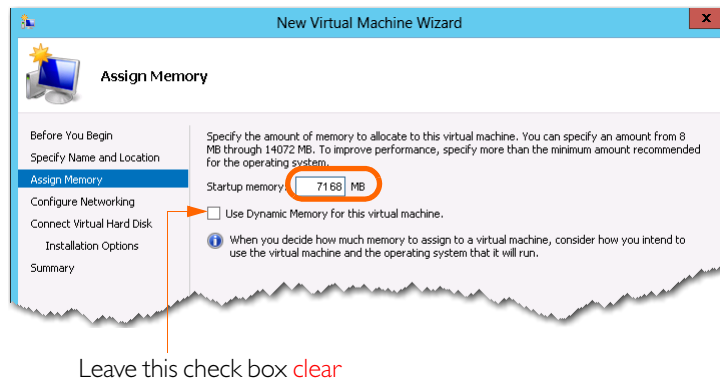


This example uses the wizard to create the virtual machine.

- b. To begin configuring the virtual appliance, click **Next**.
The Specify Name and Location screen appears.
- c. In the **Name** field, enter the machine name. In this example, we're naming the virtual machine, **MySilverPeak**.



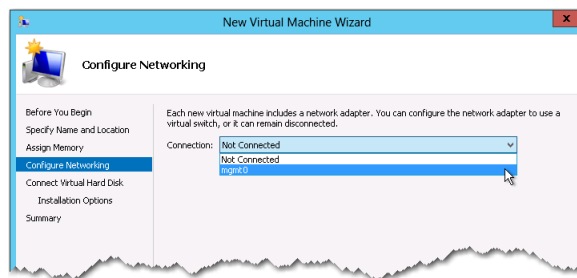
- d. Click **Next**. The Assign Memory screen appears. Refer to the *Silver Peak VX Virtual Appliance Host System Requirements* document [PN 200566-001] for the values you'll need to enter for your VX model. For this example, we'll use the values for the VX-5000.
- e. In the **Startup Memory** field, enter **7168** and click **Next**.



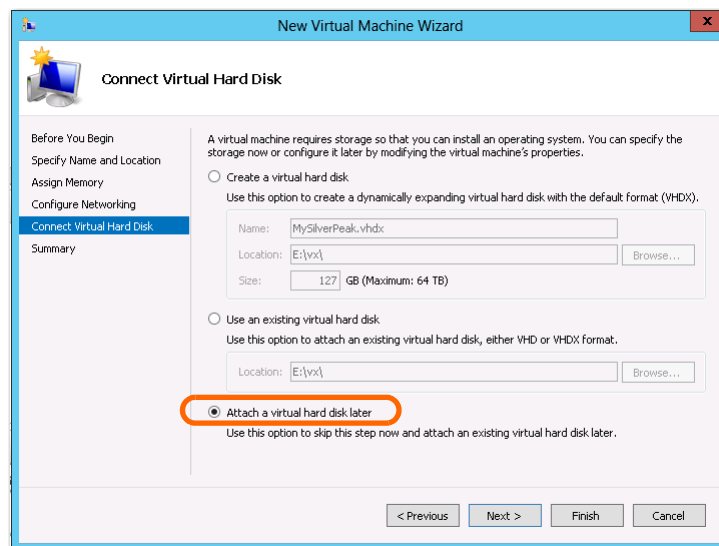
The Configure Networking screen appears.

Now you'll configure the **mgmt0** interface.

- f. In the **Connection** field, select **mgmt0** from the drop-down list.



- g. Click **Next**. When the Connect Virtual Hard Disk screen appears, select **Attach a virtual hard disk later**.



- h. Click **Next**. The Summary page appears.



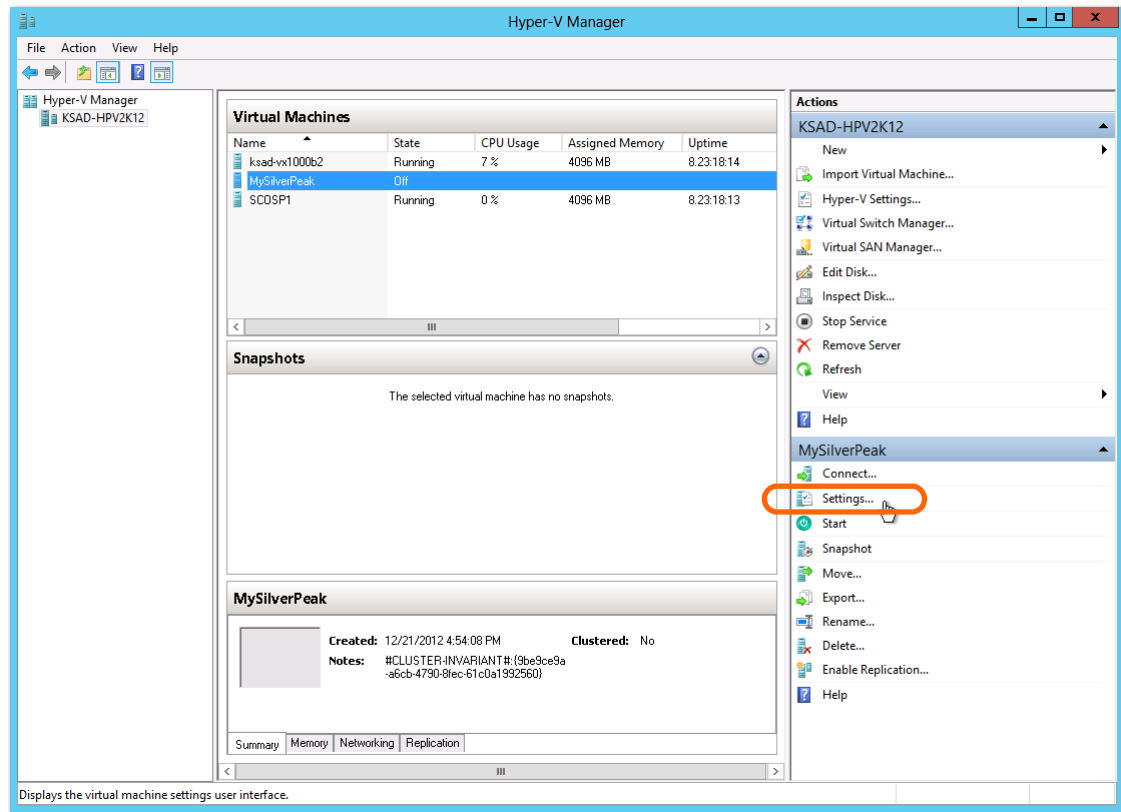
- i. To create the virtual machine and close the wizard, click **Finish**.

At this point, the software creates the virtual machine using the parameters provided. Some additional configuration is required before launching the virtual appliance.

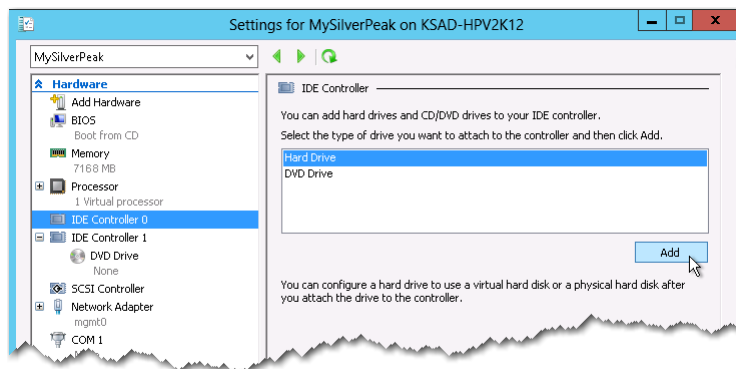
3 Configure the virtual machine

- a. Return to the **Hyper-V Manager** to see that the new appliance, **MySilverPeak**, now appears in the **Virtual Machines** section.

On the right, below the new appliance's name, click **Settings**.

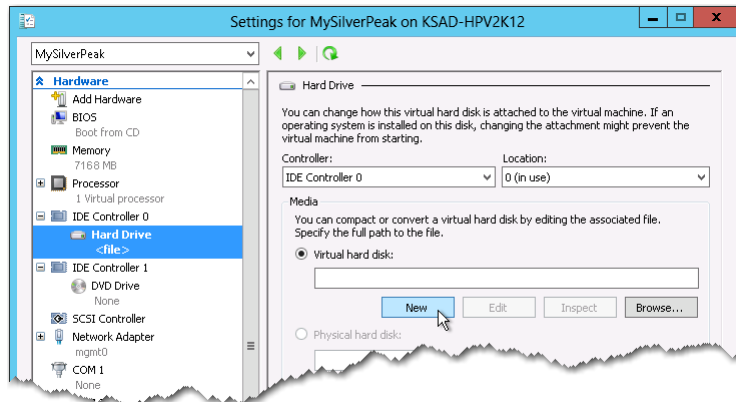


- b. When the Settings for MySilverPeak window appears, do the following:
- In the left pane, under **Hardware**, select **IDE Controller 0**.
 - On the right, select **Hard Drive**.



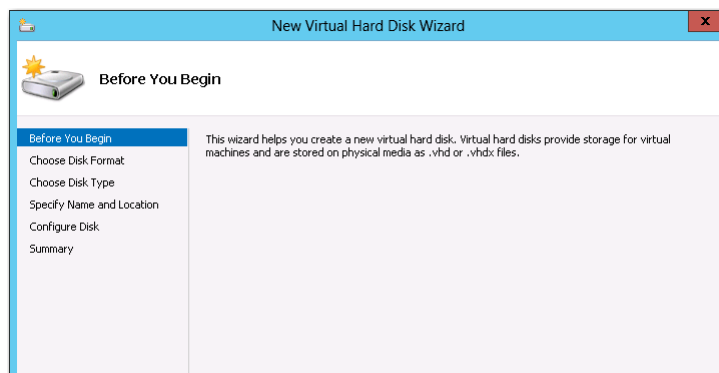
- c. Click **Add**.

The left pane now shows the addition of the hard drive for **IDE Controller 0**.



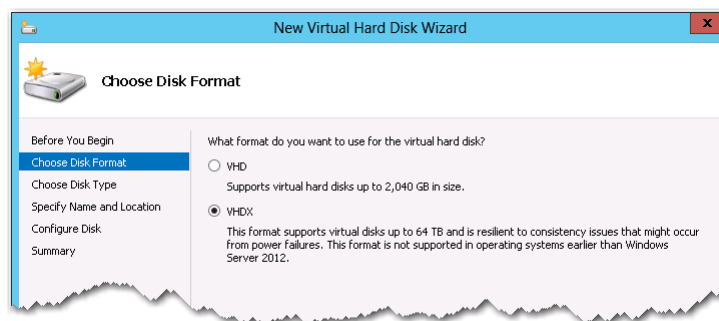
- d. In the **Hard Drive** section on the right, make sure that **Virtual hard disk** is selected and click **New**.

The New Virtual Hard Disk Wizard appears.



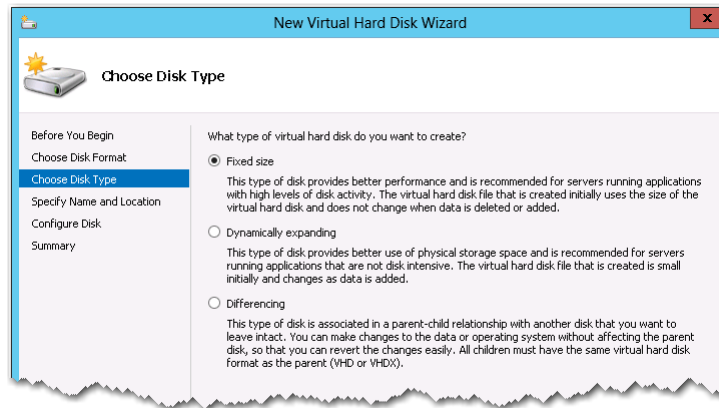
- e. Click **Next**. The Choose Disk Format screen appears.

- f. Select **VHDX** and click **Next**.



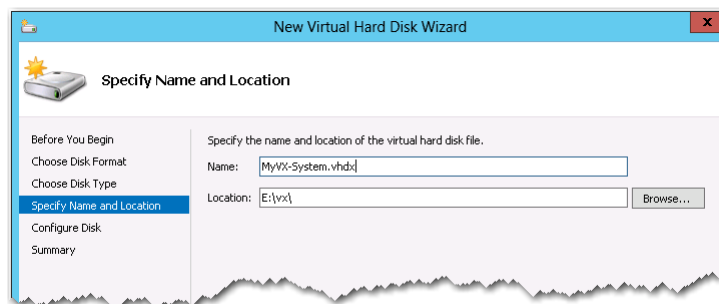
The Choose Disk Type screen appears.

- g. Select **Fixed size** and click **Next**.

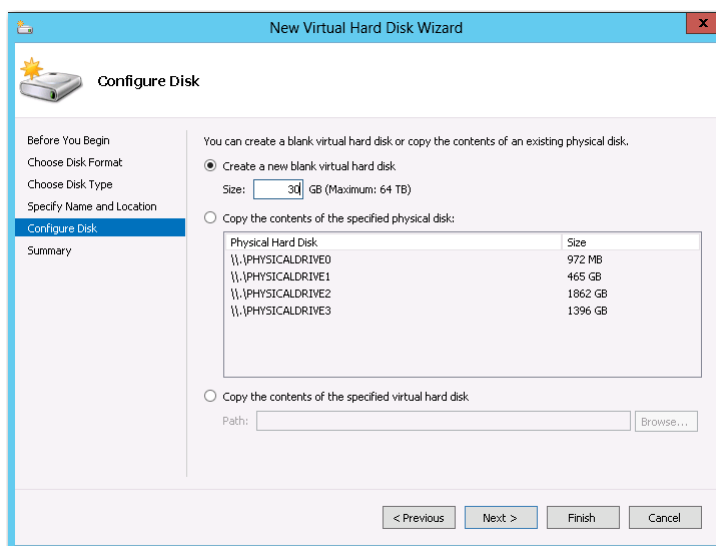


The Specify Name and Location screen appears.

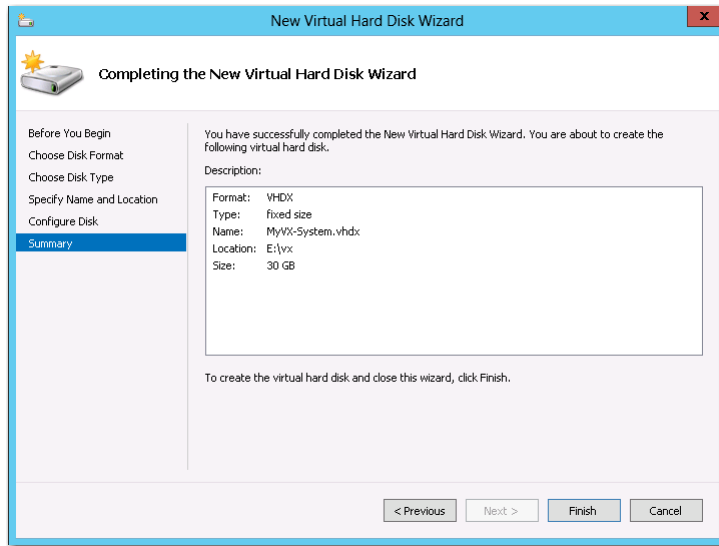
- h. In the name field, change **New Virtual Hard Disk.vhdx** to **MyVX-System.vhdx**.



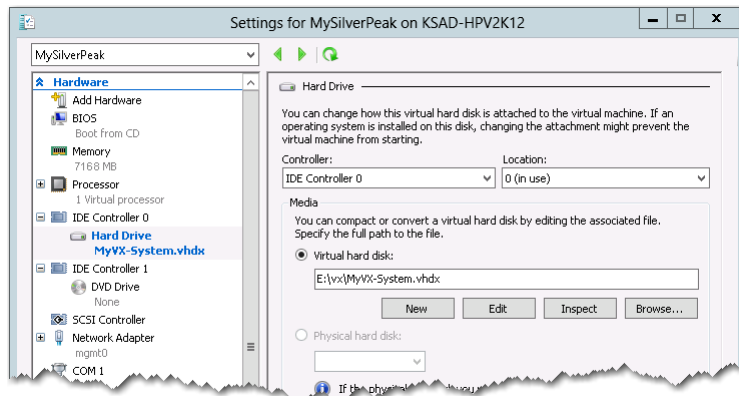
- i. Click **Next**. The Configure Disk screen appears.
- j. Select **Create a new blank virtual hard disk**, and in the **Size** field, enter **30** (for 30GB of System space). This System value is the same across all models of Silver Peak virtual appliances.



- k. Click **Next**. The Completing the New Virtual Hard Disk Wizard screen appears, summarizing the configuration parameters.



- l. Click **Finish**. The wizard creates the new virtual hard disk and returns you to the Settings for MySilverPeak page, which displays the newly added hard disk.



To save the addition, click **Apply**.

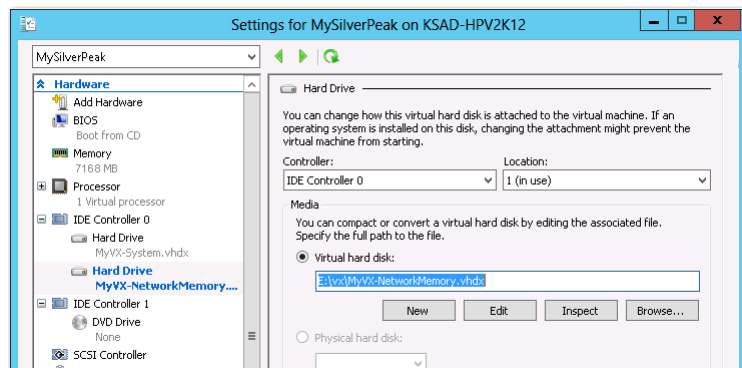
Now, you need to add a hard disk for Network Memory, using the same procedure. A summary of the sequence follows, with entries adjusted for Network Memory:

- ☐ In the Settings for MySilverPeak window, do the following:
 - In the left pane, under **Hardware**, select **IDE Controller 0**.
 - On the right, select **Hard Drive**.
- ☐ Click **Add**. The left pane now shows the addition of the hard drive for **IDE Controller 0**.
- ☐ In the **Hard Drive** section on the right, make sure that **Virtual hard disk** is selected and click **New**. The New Virtual Hard Disk Wizard appears.
- ☐ Click **Next**. The Choose Disk Format screen appears.
- ☐ Select **VHDX** and click **Next**. The Choose Disk Type screen appears.

- ❑ Select **Fixed size** and click **Next**.
The Specify Name and Location screen appears.
- ❑ In the **Name** field, change **New Virtual Hard Disk.vhdx** to **MyVX-NetworkMemory.vhdx**.
- ❑ Click **Next**. The Configure Disk Screen appears.
- ❑ Select **Create a new blank virtual hard disk**, and in the **Size** field, enter **70** (for 70GB of Network Memory).
(Refer to the *VX Virtual Appliance Host System Requirements* document for models other than the VX-5000.)
- ❑ Click **Next**. The Completing the New Virtual Hard Disk Wizard screen appears, summarizing the configuration parameters.



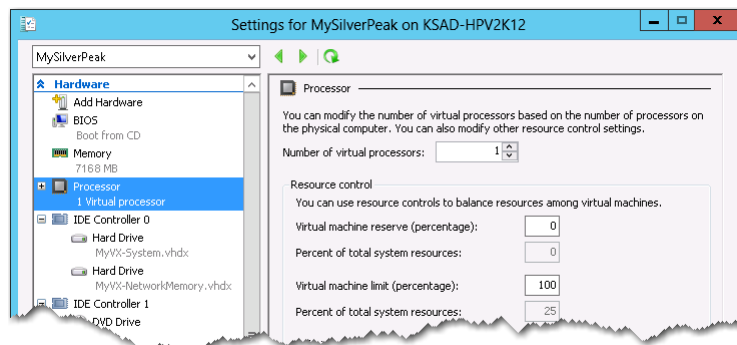
- ❑ Click **Finish**. The wizard creates the new virtual hard disk and returns you to the Settings for MySilverPeak page, which displays the newly added second hard disk.



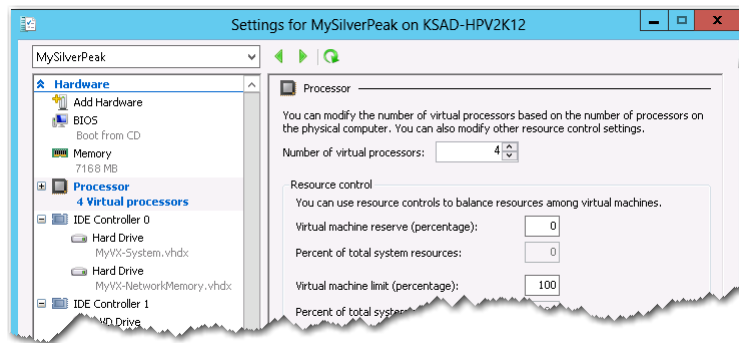
- ❑ To save the addition, click **Apply**.

Now, you need to specify the number of processors.

- m In the left pane, click **Processor**.



- n. In the **Processor** section on the right, change the **Number of virtual processors** to match the requirements in the Silver Peak *VX Virtual Appliance Host System Requirements* document [PN 200566-001] for your VX model.

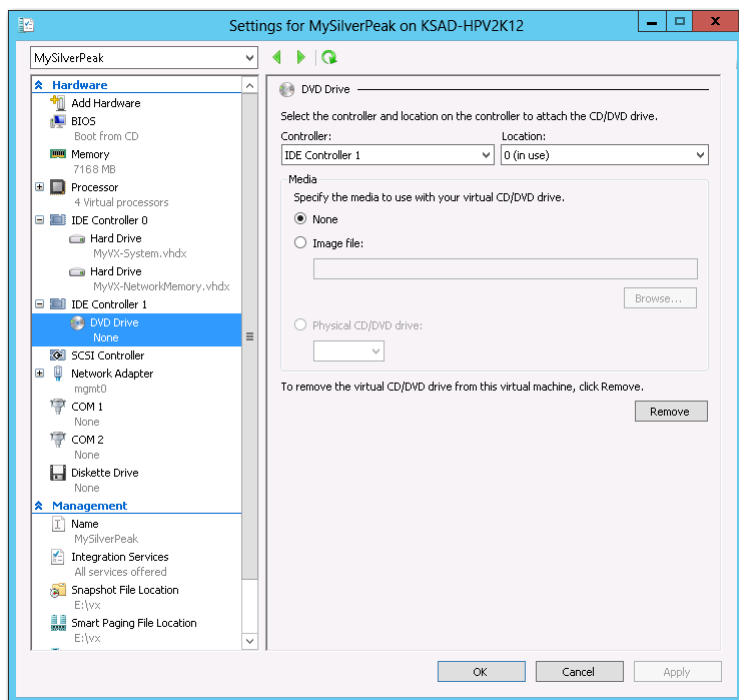


For this example, we'll enter 4 (for the VX-5000).

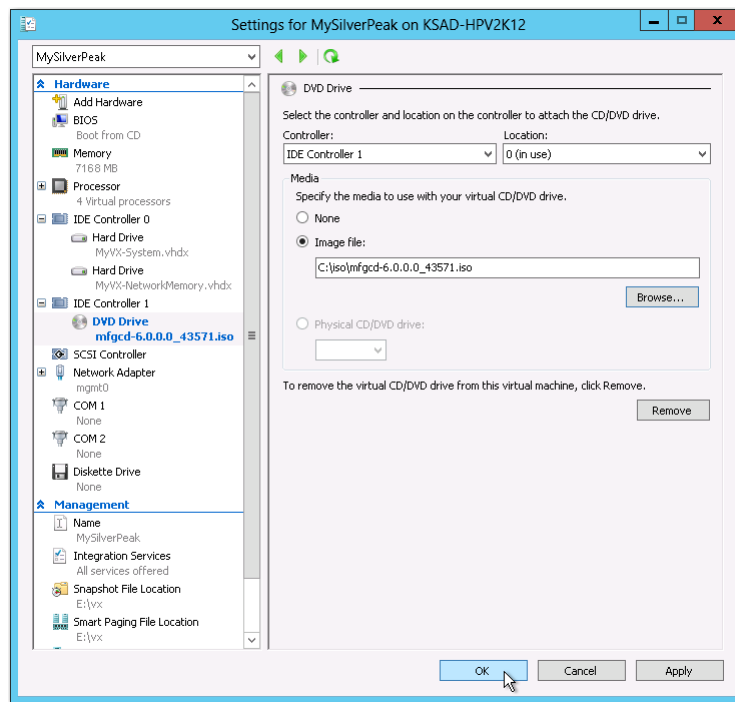
- o. Click **OK**. This commits the changes and closes the window, returning you to the Hyper-V Manager.

Now, we need to insert the ISO file into the virtual machine's virtual DVD.

- p. From the left panel, click **DVD Drive**.



- q. In the DVD Drive section on the right, click **Image file** and browse to the image file you previously downloaded from Silver Peak's website.

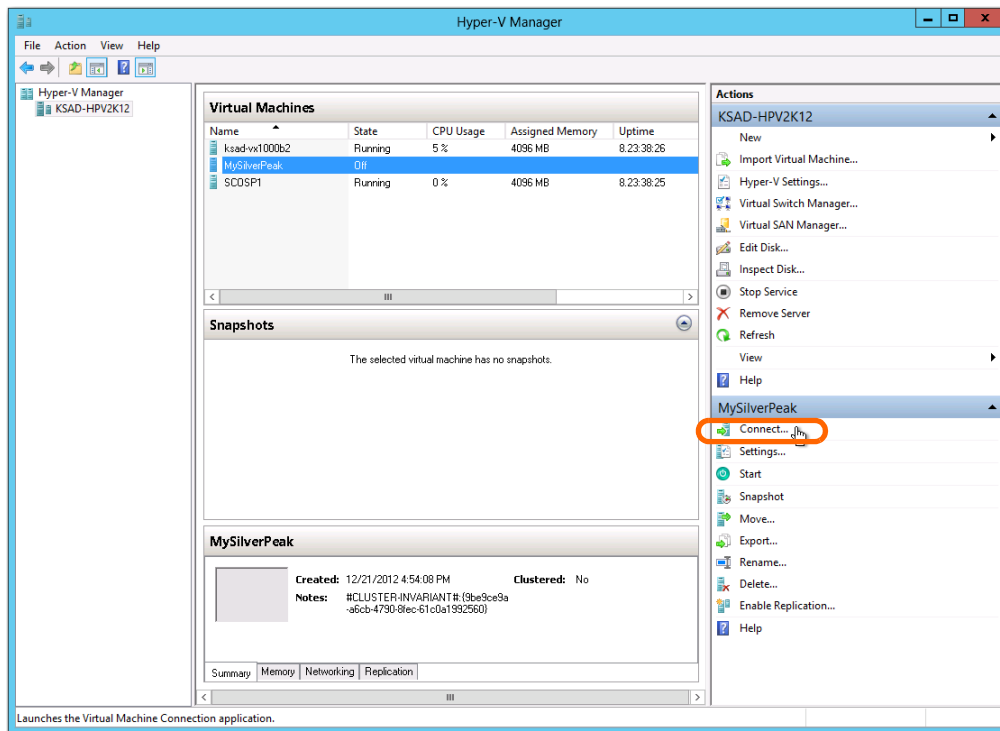


- r. Click **OK**.

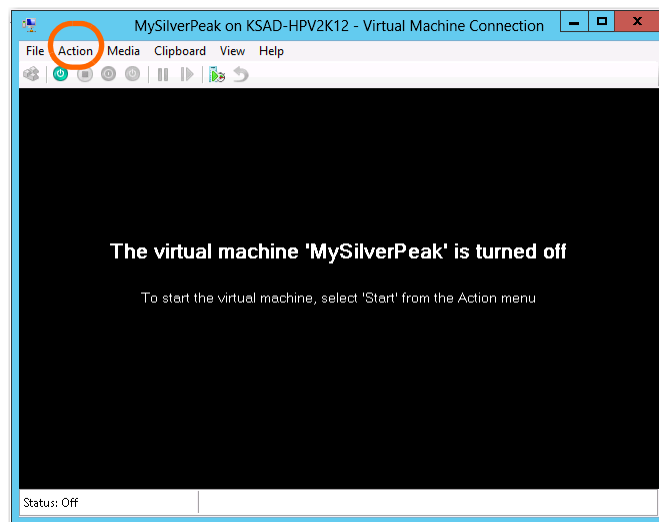
This commits the changes and closes the window, returning you to the Hyper-V Manager.

4 Establish connectivity to the virtual machine

- a. In the **Virtual Machines** section, select **MySilverPeak** and click **Connect**.

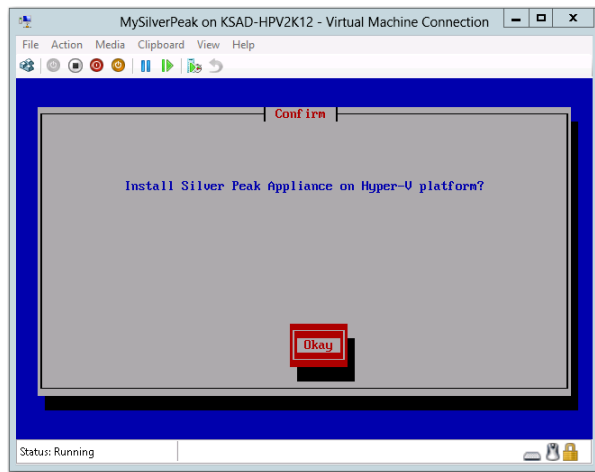


- b. If the virtual machine is off, you'll get a message to select **Start** from the **Action** menu.



This displays a console window for the virtual appliance, and the system initializes.

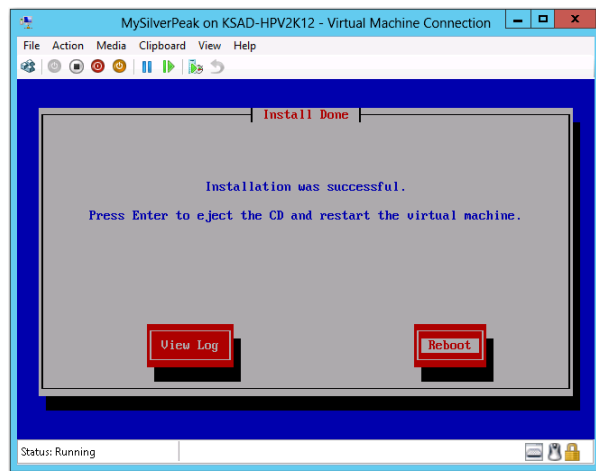
- c. When the console displays the **Confirm** screen, asking *Install Silver Peak Appliance on Hyper-V platform?*, press **Enter** to accept **Okay**.



- d. To start the VX's software installation process, click the mouse in the window and then press **Enter** in the keyboard.

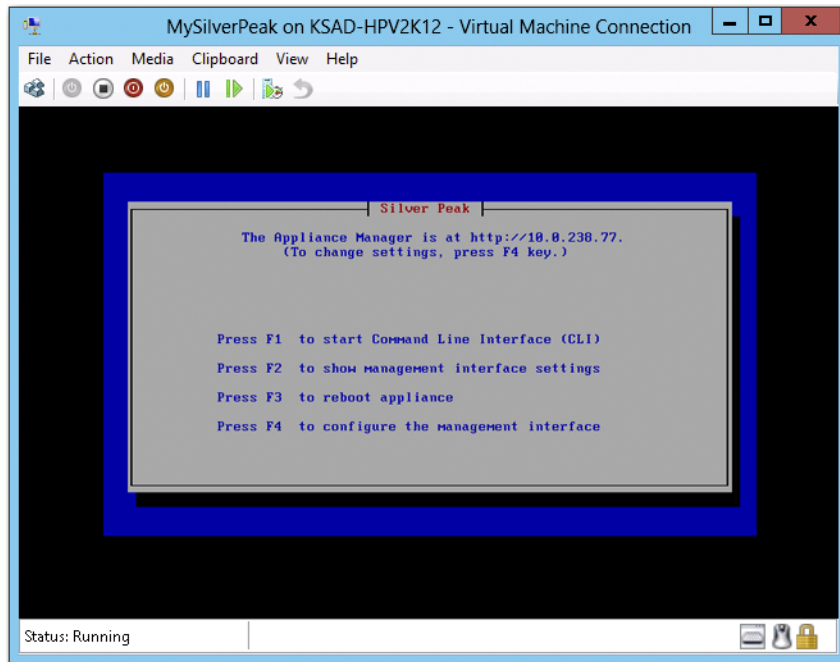
NOTE: Clicking  in the console has no effect.

The installation takes approximately 5 minutes. When the installation to disk is complete, the Install Done screen appears, instructing you to eject the CD and restart the appliance.



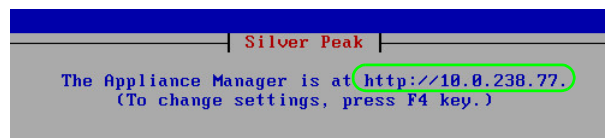
- e. Press **Enter** on the keyboard.

After the VX appliance boots up, the Silver Peak Console User Interface appears.

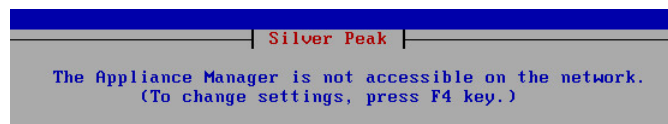


- f. To access the VX appliance's user interface, you'll need to discover the IP address for its **mgmt0** interface and enter it into a browser:

- **If you're using DHCP**, the virtual appliance IP address displays in Silver Peak's Console User Interface.



- **If you're not using DHCP**, then you must configure the static IP address and default gateway.



In the virtual appliance console, press function key, **F4**, and complete the remaining steps.

When prompted to choose the type of management interface, select **Static** (as opposed to **DHCP**).

After selecting **Apply**, you can review the settings by selecting function key, **F2**.

- g. To verify connectivity, press function key, **F1**, and enter the following command sequence:

```
[vx-appliance] > enable [ENTER]
```

```
[vx-appliance] # show ip default-gateway [ENTER]
```

```
[vx-appliance] # ping <default-gateway> [ENTER]
```

To stop the pinging, enter **CTRL-C**.

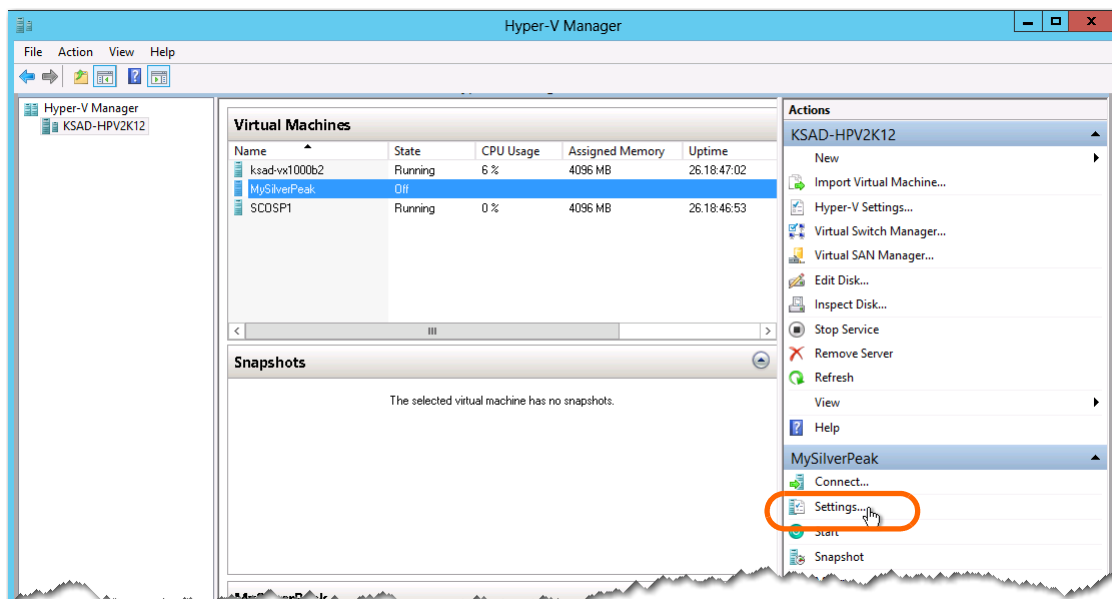
You are now ready to complete the Silver Peak virtual appliance initial configuration wizard.

- h. In the console, enter **reboot halt**, which powers down the virtual machine.
-

5 Add network adapter to the virtual machine

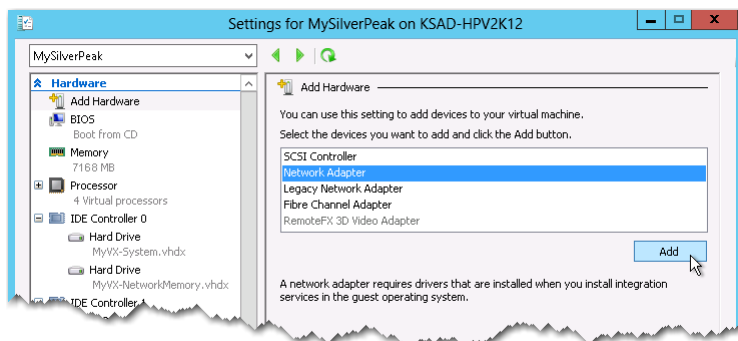
Now, you'll add **wan0**'s network adapter:

- a. In the Hyper-V Manager, select **MySilverPeak** and click **Settings**.



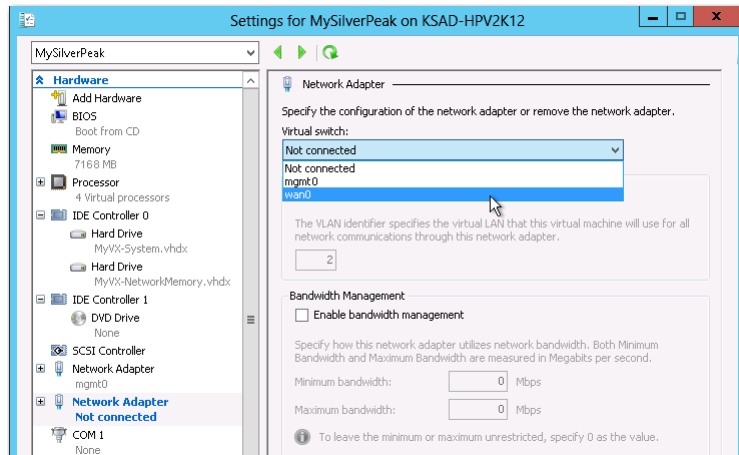
The Settings for MySilverPeak window appears.

- b. Select **Network Adapter** and click **Add**.



The Network Adapter page appears, with a new adapter displayed under **Hardware**.

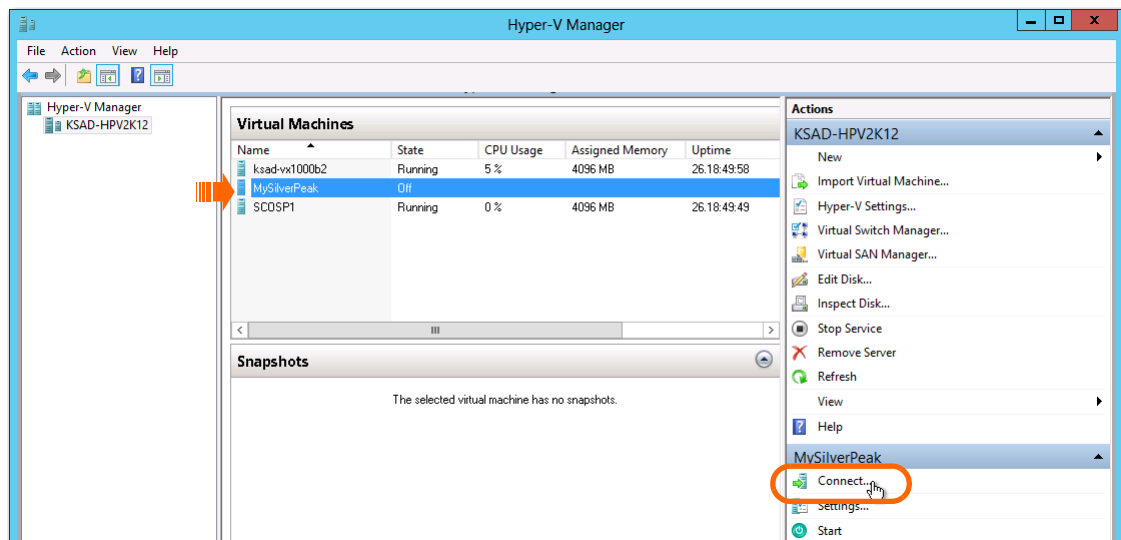
- c. In the **Virtual Switch** field, select **wan0**.



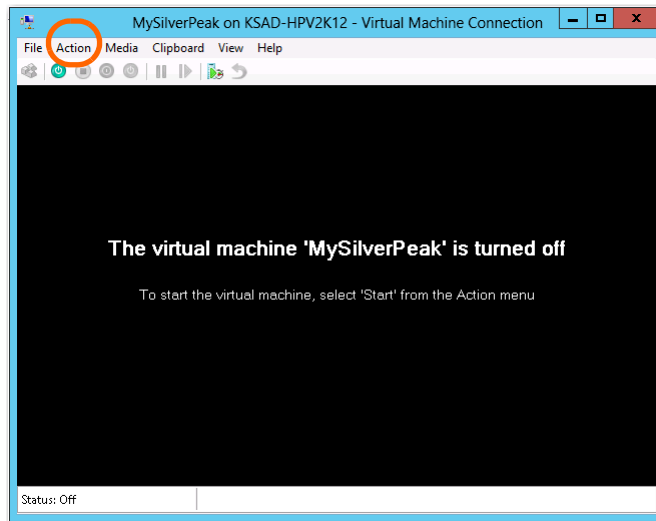
- d. Click **OK**. The changes are applied and the window closes.

You've just created the network adapter for **wan0**. Now, you'll power on the virtual machine.

- e. In the Hyper-V Manager, select **MySilverPeak** and then, in the **Actions** column on the right, click **Connect**.

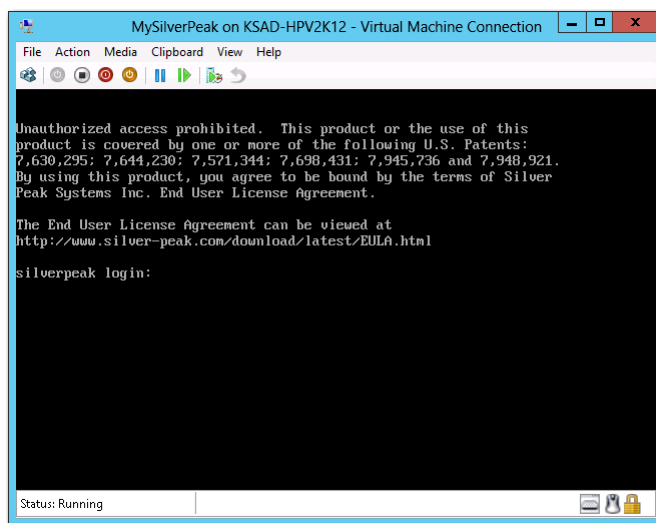


- f. Because the virtual machine is off, you'll get a message to select **Start** from the **Action** menu.



This displays a console window for the virtual appliance, and the system initializes.

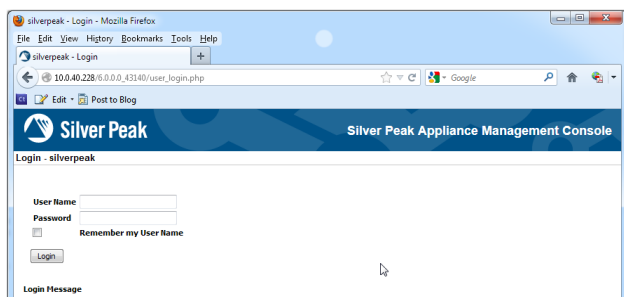
- g. The VX appliance boots up, it arrives at the **login** prompt.



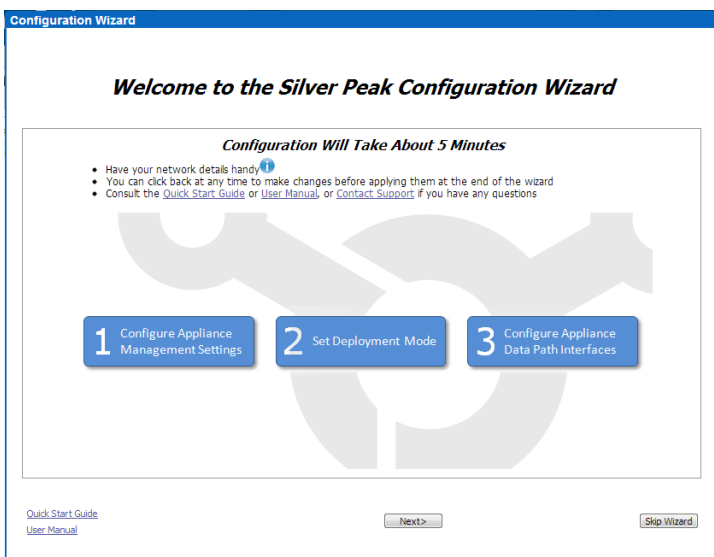
You're now ready to complete the Silver Peak virtual appliance initial configuration wizard.

6 Run the Appliance Manager initial configuration wizard

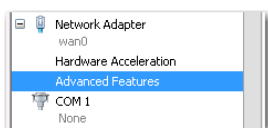
- a. In a browser, enter the **mgmt0** IP address you just discovered or configured. The Silver Peak Appliance Management Console login page appears.



- b. For both the **User Name** and **Password**, enter **admin**. The initial configuration wizard appears.



- c. Complete the remaining wizard screens. You will need the following information before you begin:
- Be sure to select **Router** mode.
 - When you reach the Configure Appliance Interface Assignment screen, you'll need to select the MAC address for **wan0** from the drop-down list. To find the MAC address, do the following:
 1. In Hyper-V Manager, select **MySilverPeak** and in the **Actions** column on the right, click **Settings**.
 2. In the left pane, under Hardware, expand **Network Adapter wan0**, and click **Advanced Features**.



3. Look in the right pane. The MAC address is the first item.

- d. On the last wizard screen, click **Apply**.
The Appliance Manager takes a few minutes to reboot and return to the login page.

You are now ready to start using the appliance.