

Quick Start Guide

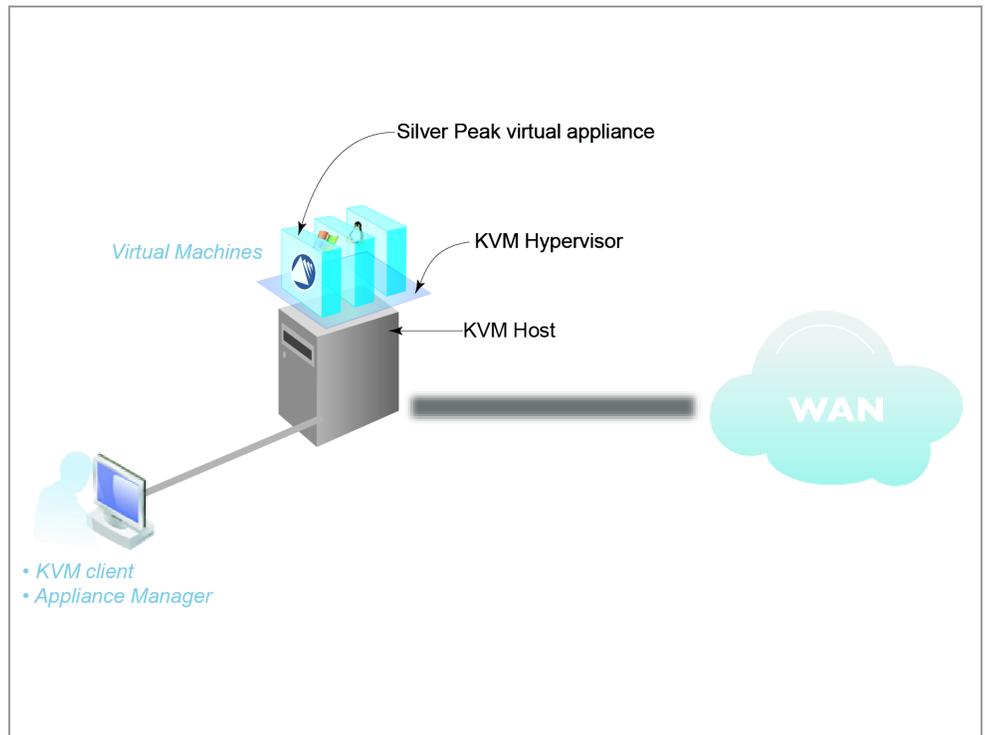
VELOCITY

· VRX REPLICATION ACCELERATOR ·

KVM Hypervisor

· Server Mode ·
(Single-Interface Deployment)

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This Quick Start Guide only covers single-interface Server mode, which uses **mgmt0** for data traffic.

Before You Begin

- Comply with the [Velocity Replication Accelerator \(VRX\) Host System Requirements](#) [PN 200778-001]
- Download the virtual appliance ISO file to the KVM 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 Velocity Replication Accelerator activation license key
- If not using DHCP, then an IP address for the Silver Peak appliance.

SUMMARY OF TASKS

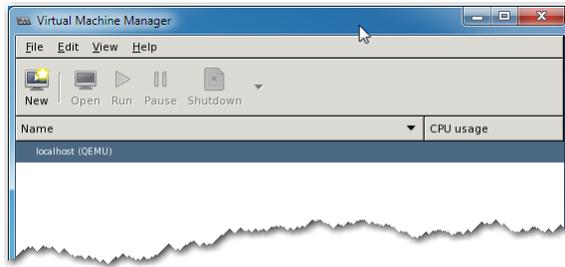
- 1 Prepare the KVM server/host**
- 2 Create and configure the virtual machine**
- 3 Establish connectivity to the virtual machine**
- 4 Run the Appliance Manager initial configuration wizard**
- 5 Configure storage for redirection**



Silver Peak Systems, Inc.
2860 De La Cruz Blvd.
Suite 100
Santa Clara, CA 95050

1.877.210.7325 (toll-free in USA)
+1.408.935.1850
www.silver-peak.com/support

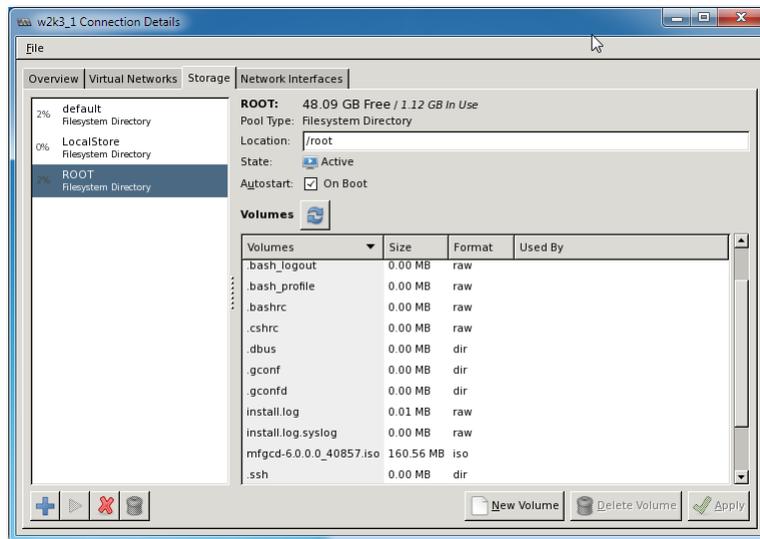
TO BEGIN ... Launch Virtual Machine Manager from the desktop, and connect to the target KVM server.



Prepare the KVM server/host

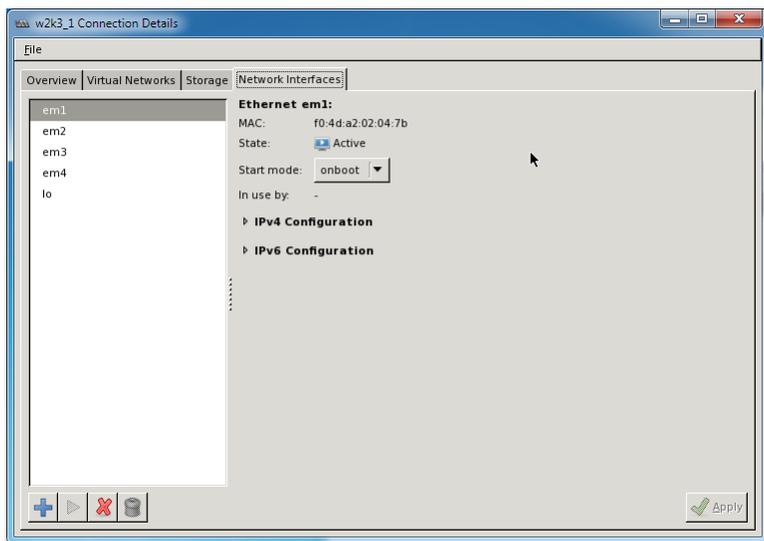
In this section, you'll create the following:

- One bridge network interface
 - One virtual disk for the *System*
- a. From the menu bar, select **Edit > Connection Details**. The <hostname> Connection Details page appears.

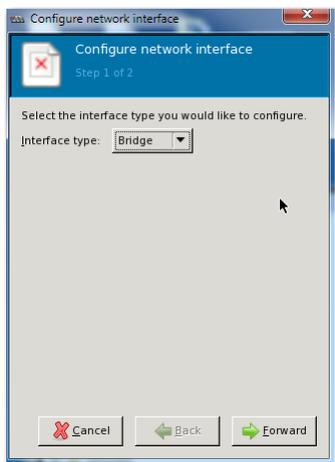


- b. Select the **Network Interfaces** tab.

To begin creating a bridge interface for **mgmt0**, click  in the lower left corner.

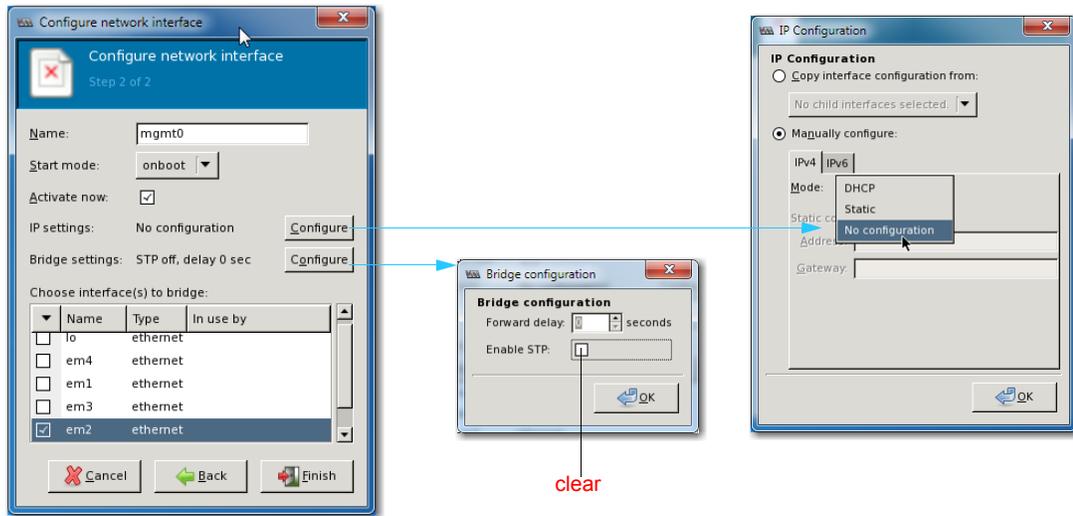


The **Configure network interface** dialog box appears, showing **Step 1 of 2**.



- c. Make sure that the **Interface Type** is **Bridge**, and then click **Forward**. The **Step 2 of 2** dialog box appears.

d. Complete the fields as follows:

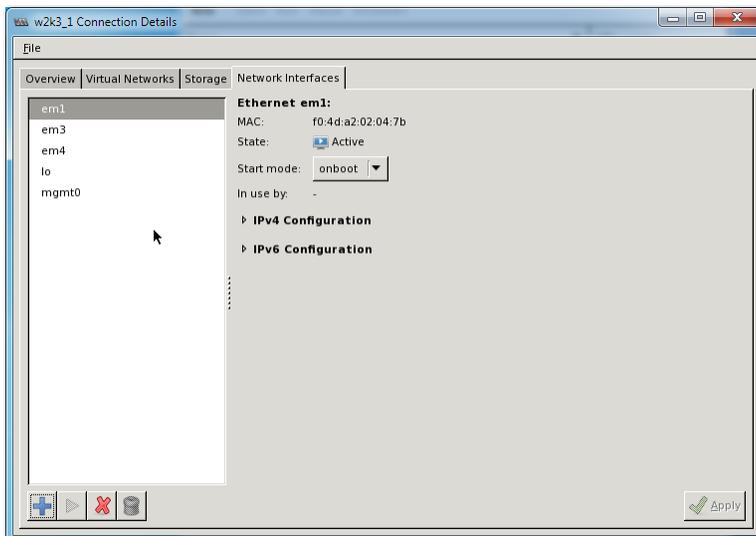


Name: **mgmt0**
 Start mode: onboot
 Activate now: [select it]
 IP settings: [Manually configure > No configuration]
 Bridge settings: STP off
 Choose interfaces to bridge: em2 [based on your host configuration, pick the physical adapter for **mgmt0**]

e. Click **Finish**. If the following warning message appears, click **Yes**.



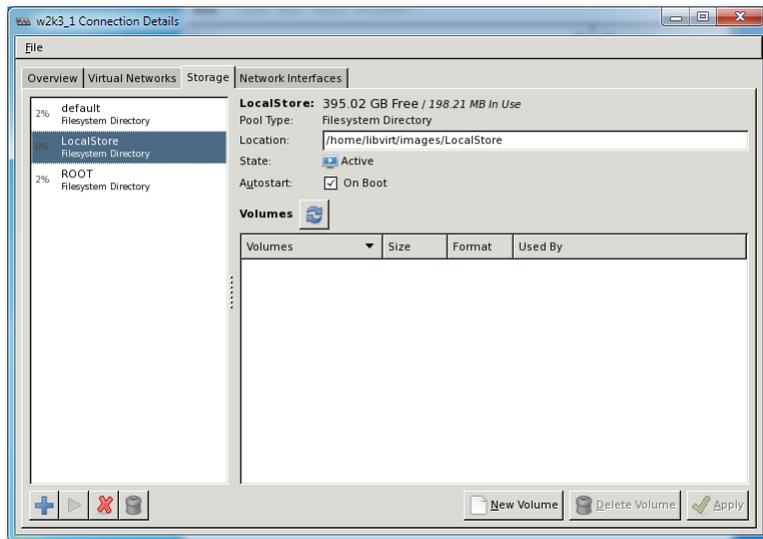
The Network Interfaces page appears, with the newly added **mgmt0** in the left pane.



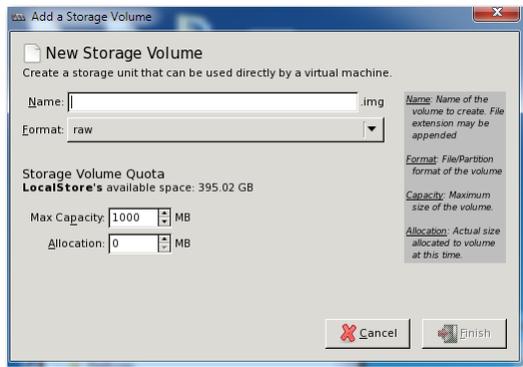
Now you'll create one virtual disk for **System**.

- f. In the <hostname> Connection Details window, select the **Storage** tab and click **LocalStore** in the left navigation pane.

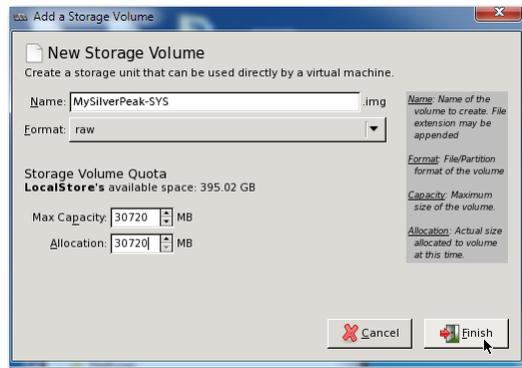
NOTE: In this example, **LocalStore** is a user-created storage pool, used for convenience. You can use any storage pool that meets the host requirements' specifications.



- g. Click **New Volume**. The **New Storage Volume** dialog box appears.



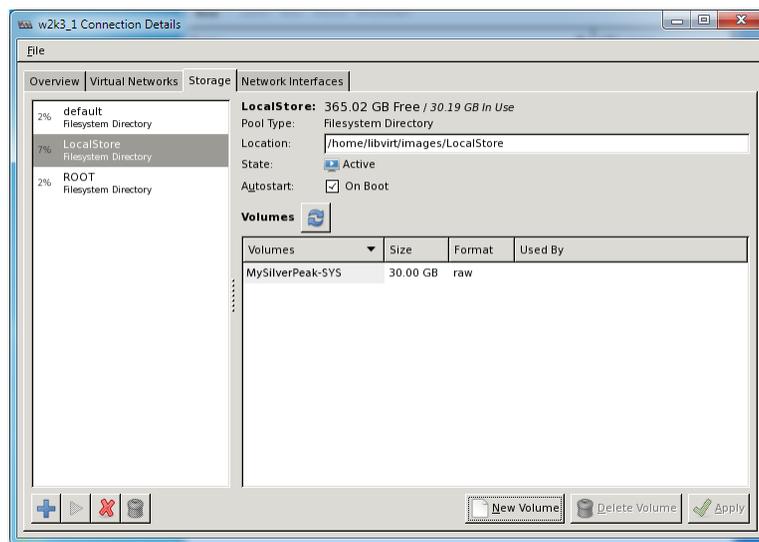
- h. To add a 30-GB storage volume for the System, complete these fields as follows, multiplying the prescribed GB (Gigabyte) value by **1024** to convert it to MB (Megabytes):



Name: **MySilverPeak-SYS**
Format: raw
Max Capacity: **30720** [MB]
Allocation: **30720** [MB]

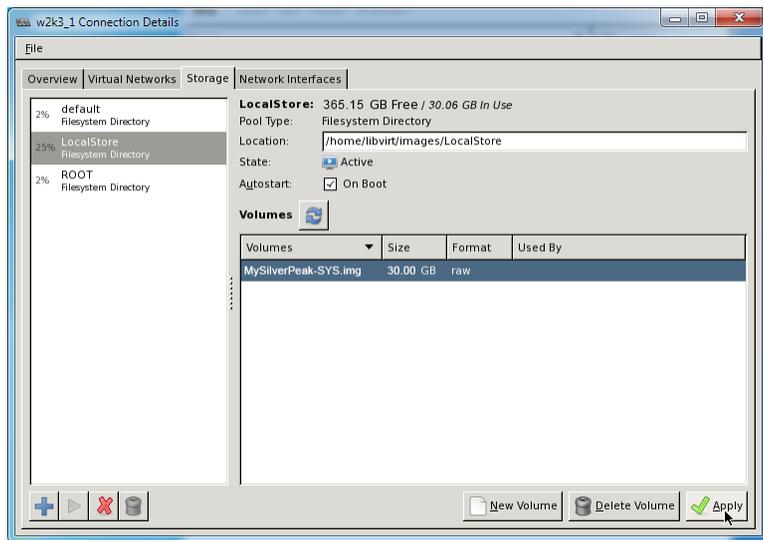
This size (30 GB, or 30720 MB) is the appropriate value for all VRX appliances. A larger allocation **does not** improve performance, and the excess remains unused.

- i. Click **Finish**. The **Storage** tab displays the **MySilverPeak-SYS.img** volume.



- j. Click **Finish**.

The **Volumes** area of the <hostname> Connection Details window's **Storage** tab displays the volume you just finished creating.

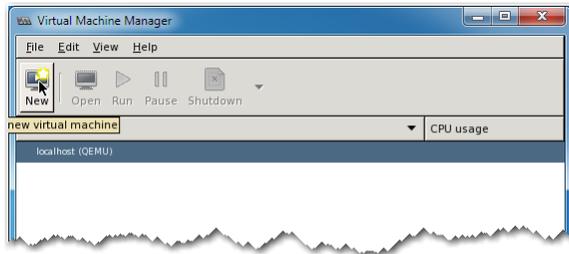


- k. Click **Apply**, and then close the <hostname> Connection Details window.

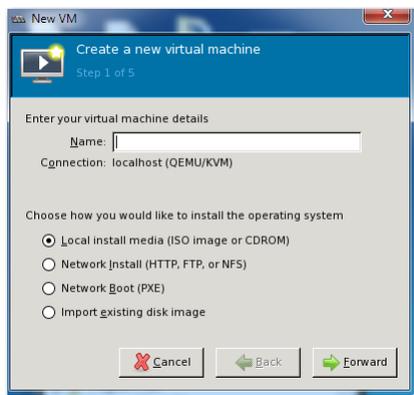
2 Create and configure the virtual machine

This section includes the following tasks, in sequence:

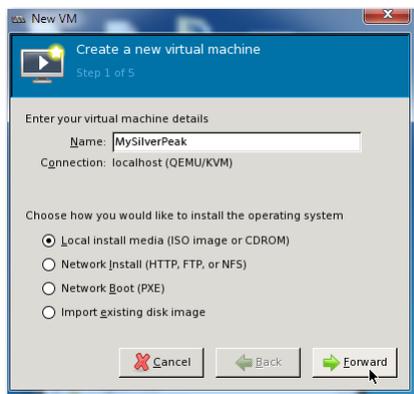
- Creating the virtual machine
 - Attaching the **System** volume (virtual disk) that you created earlier
 - Modifying the existing NIC for **mgmt0**
- a. Returning to the Virtual Machine Manager window, move the mouse over the tool bar to find and click the icon for **Create a new virtual machine**.



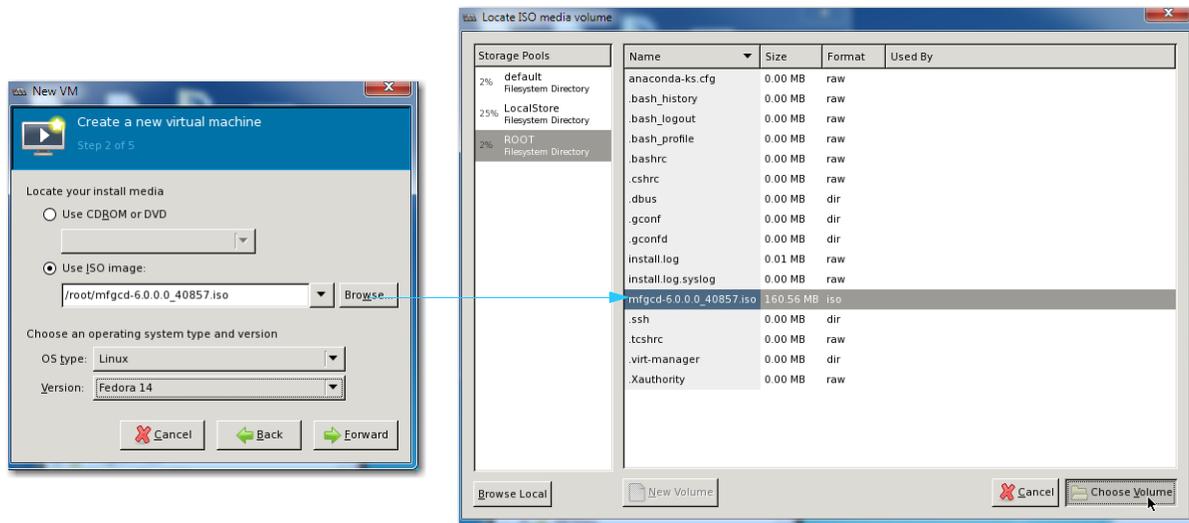
The **New VM** dialog box appears, with the subheading, **Step 1 of 5**.



- b. In the **Name** field, with **Local install media (ISO image or CDROM)** selected, enter **MySilverPeak**, and click **Forward**.



- c. In the **Step 2 of 5** dialog box, select the following and then click **Forward**:

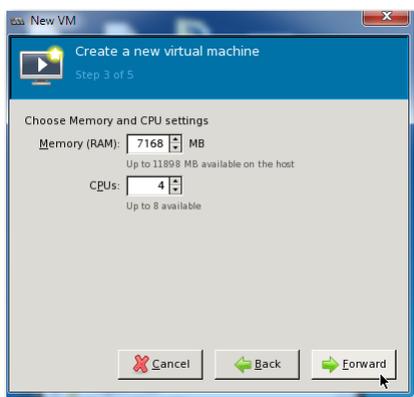


Use ISO image (Browse to select the file you already downloaded from Silver Peak's website)
 OS type: Linux
 Version: Show all OS options > Fedora 14

- d. In the **Step 3 of 5** dialog box, do the following:

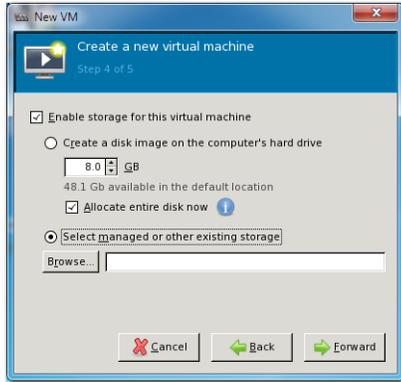
For your VRX model, refer to the *Velocity Replication Accelerator Host System Requirements* document [PN 200778-001] for the number of CPUs and amount of memory your virtual appliance must have. In this example, we'll use the values for the VRX-4.

- For the **Memory (RAM)** field, look for the number of **Memory (Gigabytes)** required. In this instance of the VRX-4, it's **7 GB**. Multiply this by 1024 MB/GB for a total of **7168 MB**.
- For the **CPUs** field, look for the number of **Processor Cores** required. In this instance of the VRX-4, it's **4**.

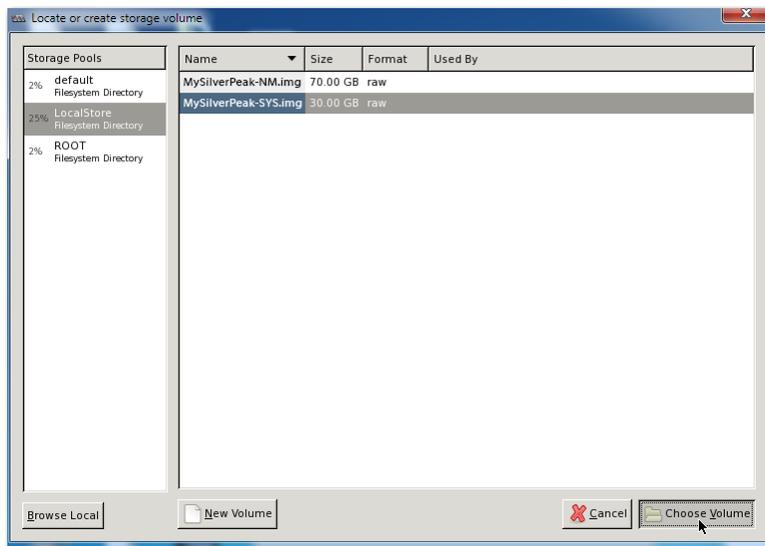


- e. Click **Forward**.

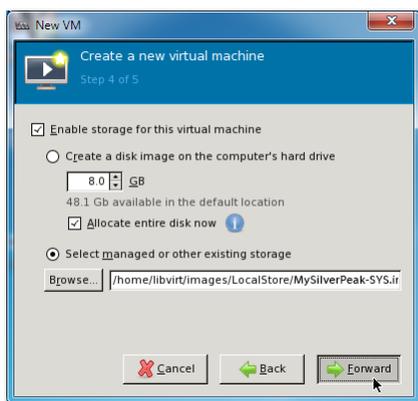
- f. In the **Step 4 of 5** dialog box, choose **Select managed or other existing storage** and click **Browse**.



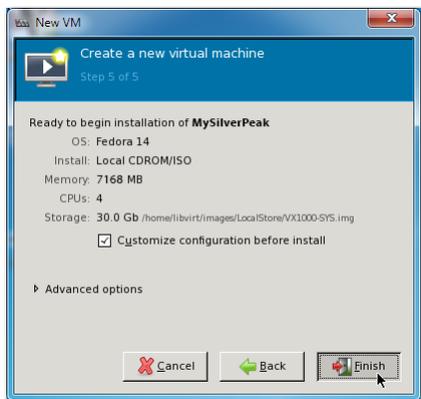
- g. From the **LocalStore** storage pool, select **MySilverPeak-SYS.img** and click **Choose Volume**.



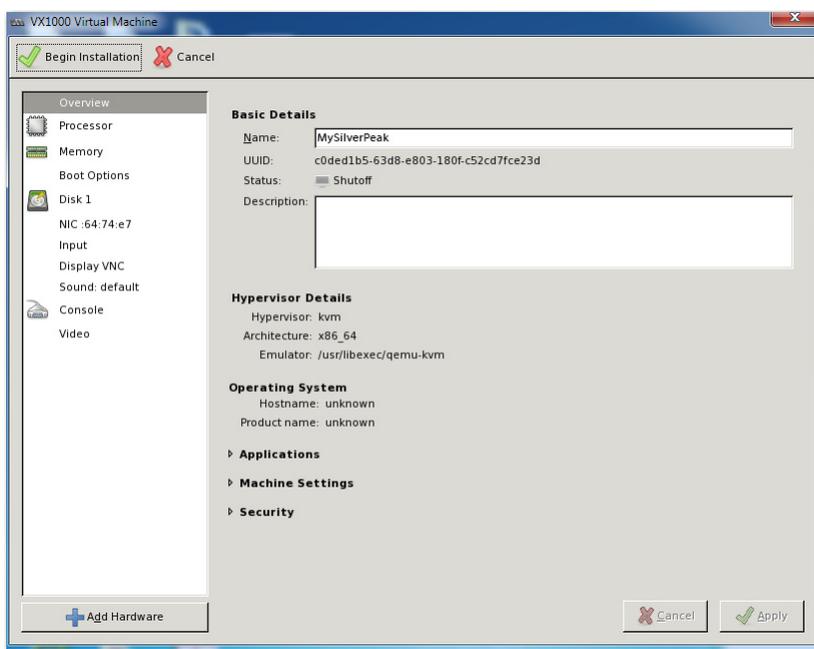
When the **Step 4 of 5** dialog box reappears, click **Forward**.



- h. In the **Step 5 of 5** dialog box, select **Customize configuration before install**, and click **Finish**.



- i. The MySilverPeak Virtual Machine window appears.



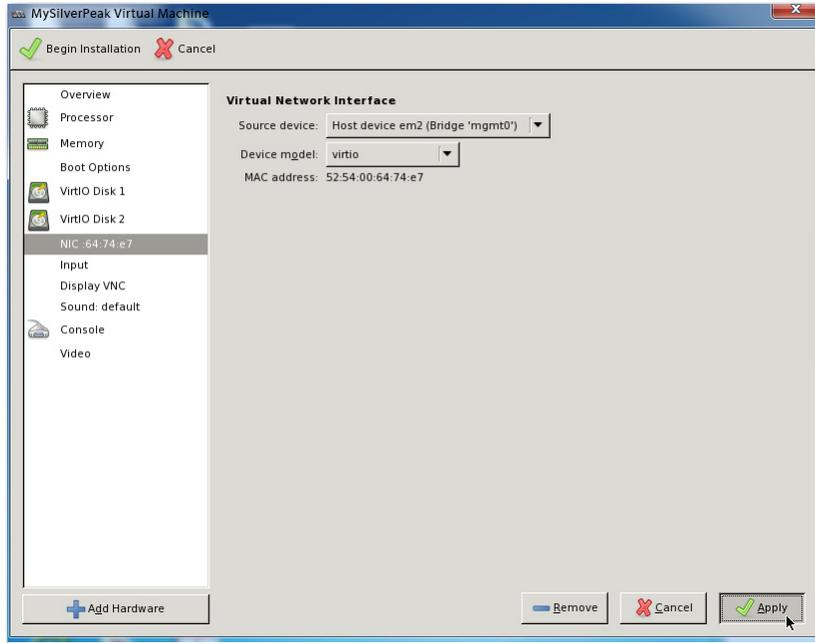
We still have to configure a couple more parameters. Tasks include:

- modifying the existing System volume you created (in **Step 2g** of this document)
- modifying the existing NIC (associated with **mgmt0**)

In the following section, you'll be preparing to map a virtual interface (also known as a **NIC** or **network**) to the appropriate physical adapter:

For **mgmt0**, you'll modify the existing NIC for **mgmt0**.

- j. In the left navigation pane of the MySilverPeak Virtual Machine page, select the (only) NIC and specify the following:

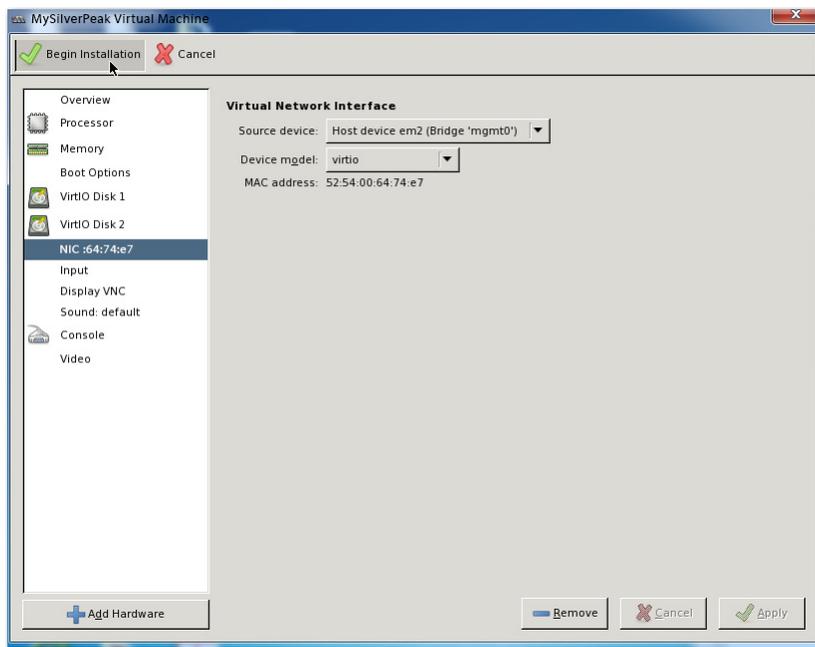


Source device: Host device em2 (Bridge 'mgmt0')
 Device model: virtio

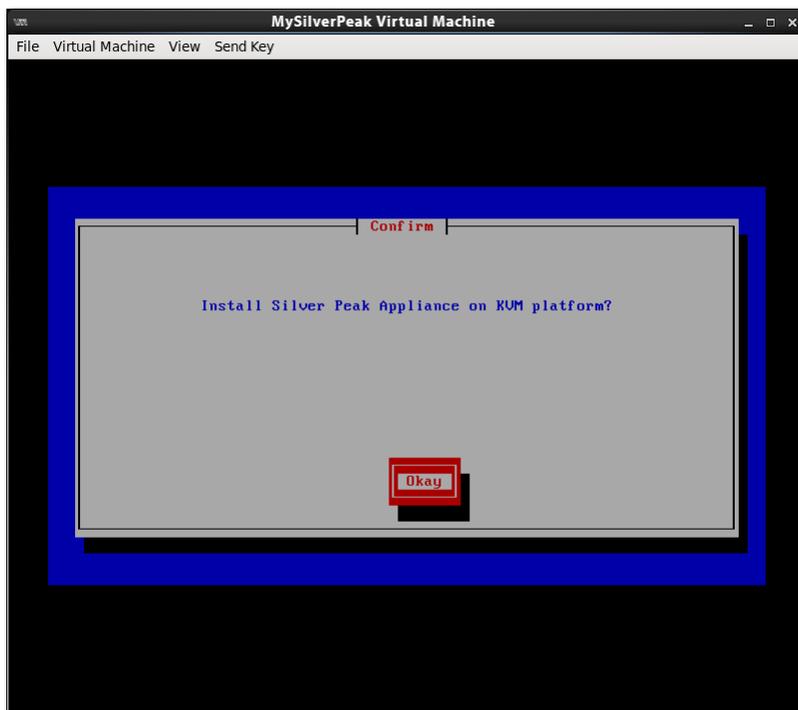
- k. Click **Apply**. The **Apply** button dims.

Now it's time to power on the virtual machine.

- l. In the menu bar, click **Begin Installation**. The machine powers up.



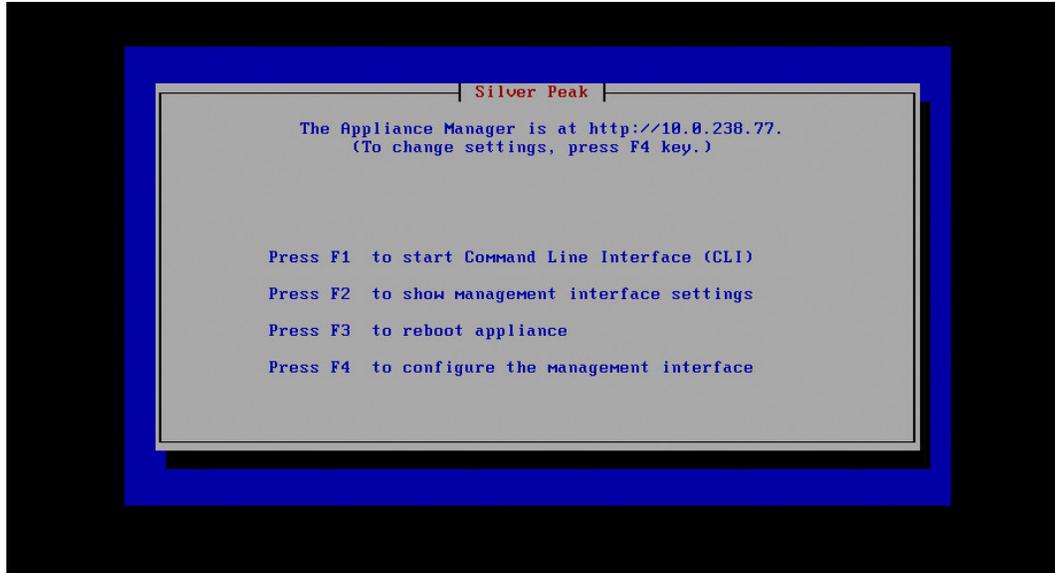
- m. When the console displays the **Confirm** screen, asking, "Install Silver Peak Appliance on KVM platform?", press **Enter** to accept **Okay**.



- n. When the console displays the **Install Done** screen with **Reboot** selected, press **Enter** on the keyboard.



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

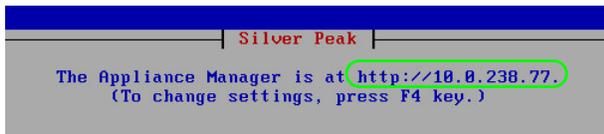


3 Establish connectivity to the virtual machine

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

a. The next task is to determine the virtual appliance's IP address:

- **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**.

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

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

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

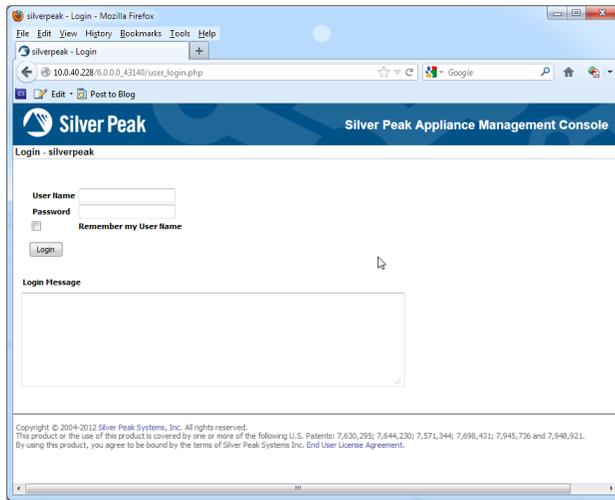
```
[vx-appliance] # ping <default-gateway> [ENTER]
```

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

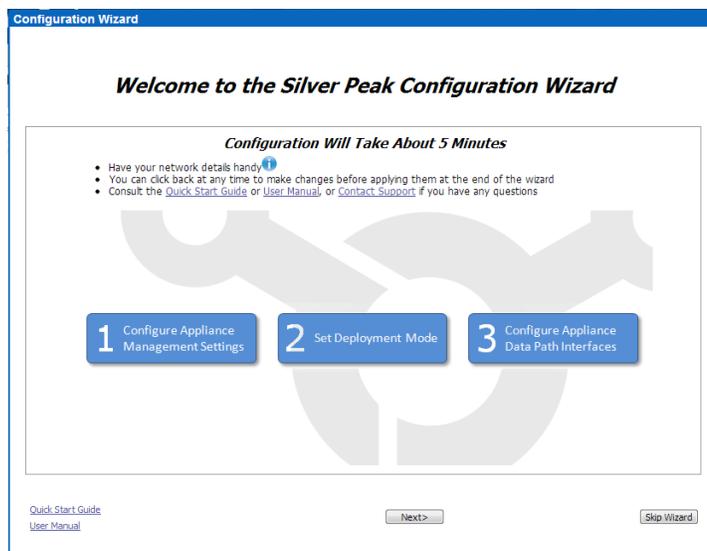
You are now ready to complete the Silver Peak virtual appliance initial configuration wizard.

4 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.
- d. On the last wizard screen, click **Apply**.
The Appliance Manager takes a few minutes to reboot and return to the login page.

5 Configure storage for redirection

- a. Configure storage for redirection. There are two ways to accomplish this:
 - Configure a static route to direct replication traffic to the Velocity appliance
 - Change the default gateway for all replication ports to use the Velocity appliance

 - b. You can download [specialized storage configuration guides](#) from the Velocity section of Silver Peak's website.
-