Quick Start Guide

VELOCITY

· VRX REPLICATION ACCELERATOR ·

Microsoft Hyper-V Hypervisor

· Server Mode ·
(Single-Interface Deployment)

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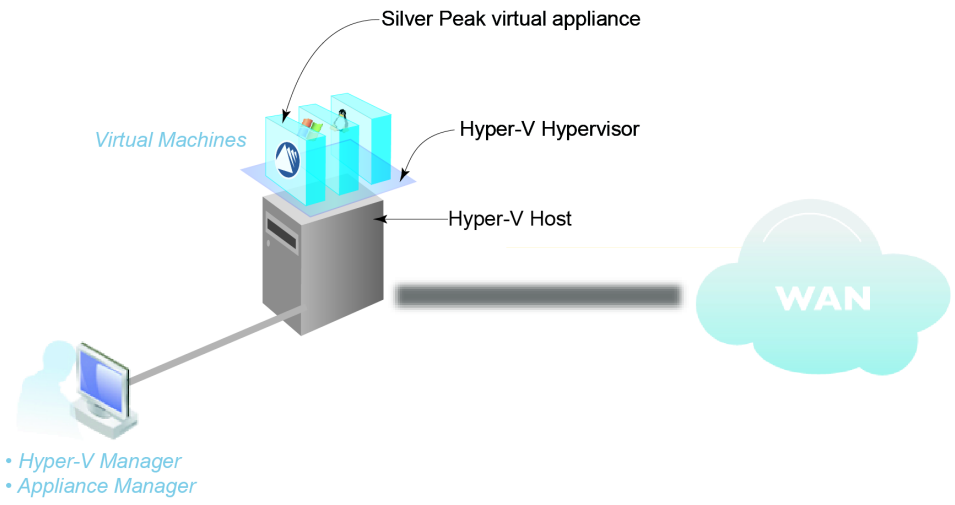
If you're not using **Microsoft Hyper-V 2012**, your screens may vary.



Before You Begin

☑ Comply with the Velocity Replication Accelerator (VRX) Host System Requirements [PN 200778-001]

☑ 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 Velocity Replication Accelerator activation license key

☑ If not using DHCP, then an IP address for the Silver Peak appliance.

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

SUMMARY OF TASKS

1. **Create the virtual network**
2. **Create the virtual machine**
3. **Configure the virtual machine**
4. **Establish connectivity to the virtual machine**
5. **Run the Appliance Manager initial configuration wizard**
6. **Configure storage for redirection**

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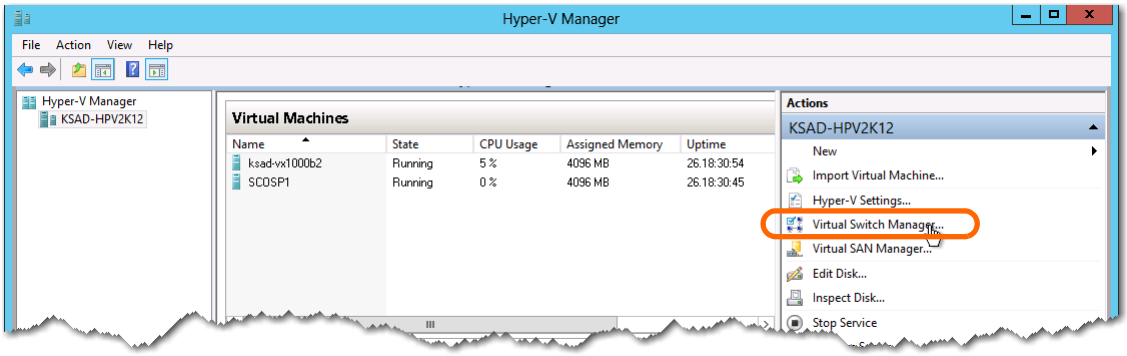
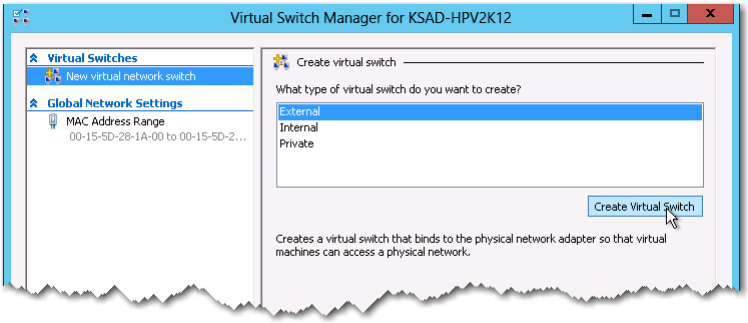
Create the virtual network

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

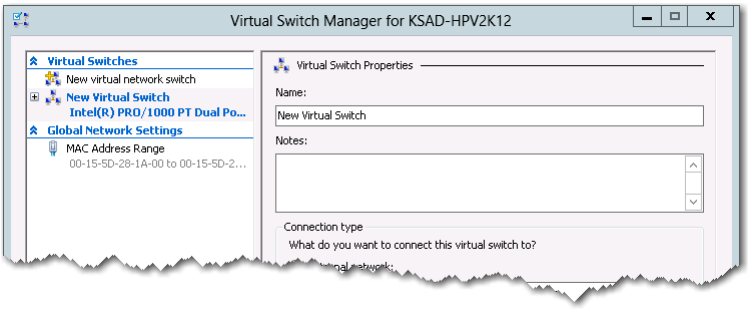


The Virtual Switch Manager appears.

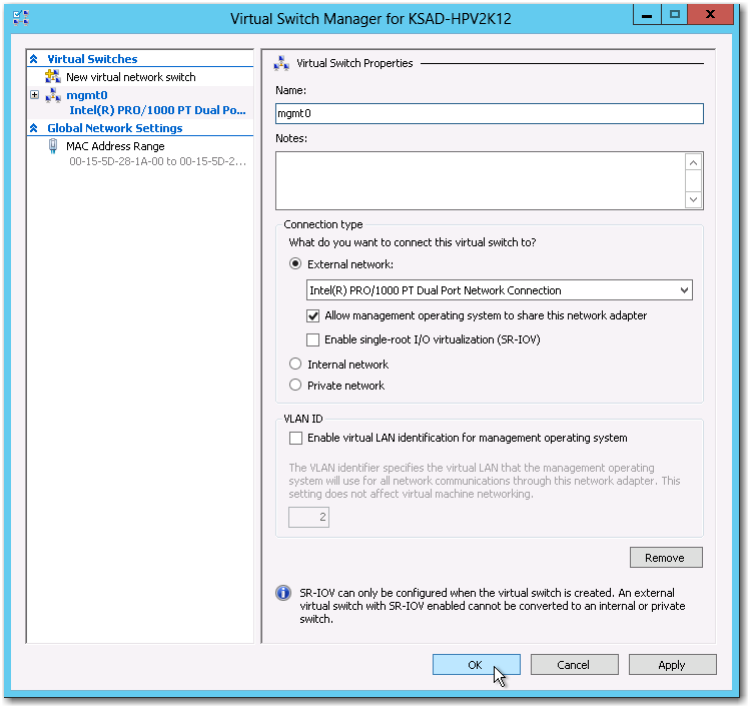
b. Select **External** and click **Create Virtual Switch**.



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`

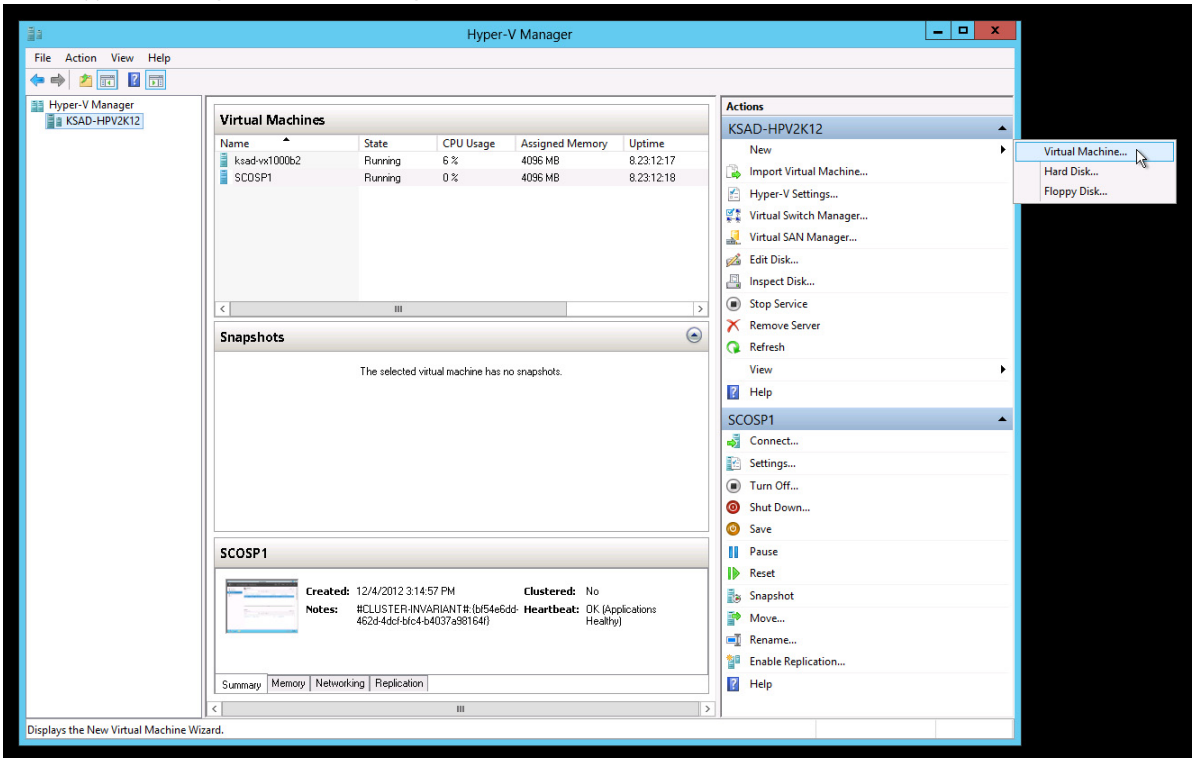
External network:
- [select your appropriate network from the drop-down list]
- **Allow management operating system to share this network adapter**

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

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

2 Create the virtual machine

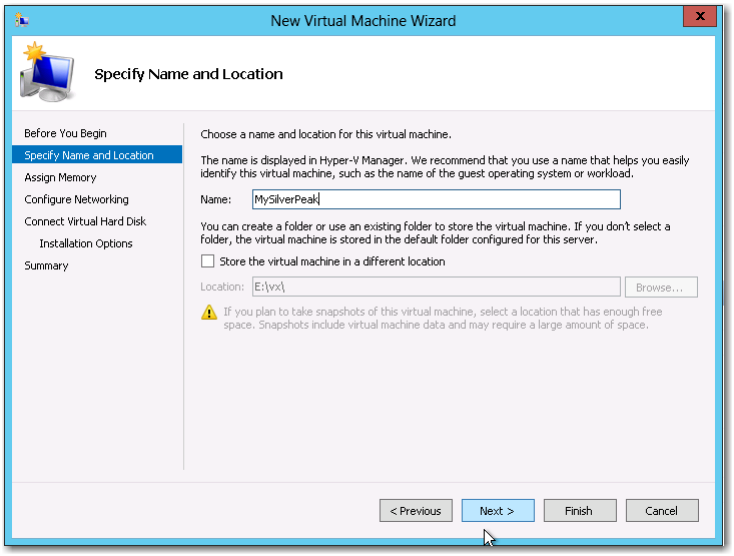
a. In the Hyper-V Manager, select the host, go to the **Actions** section, and select **New > Virtual Machine**.



This example uses the wizard to create the virtual machine.

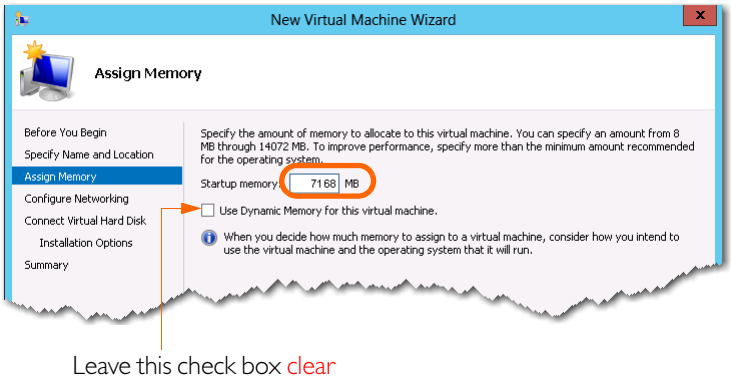
b. To begin configuring the virtual appliance, click **Next**.
The Specify Name and Location screen appears.

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 *Velocity Replication Accelerator Host System Requirements* document [PN 200778-001] for the values you'll need to enter for your VRX model. For this example, we'll use the values for the VRX-4.

e. In the **Startup Memory** field, enter `7168` and click **Next**.

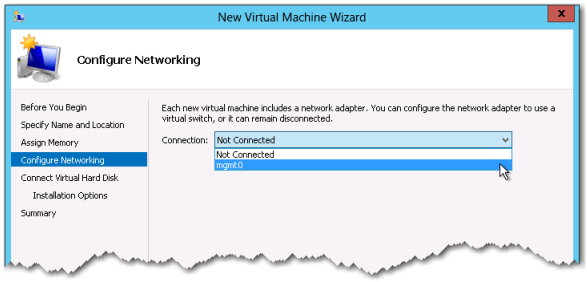


Leave this check box clear

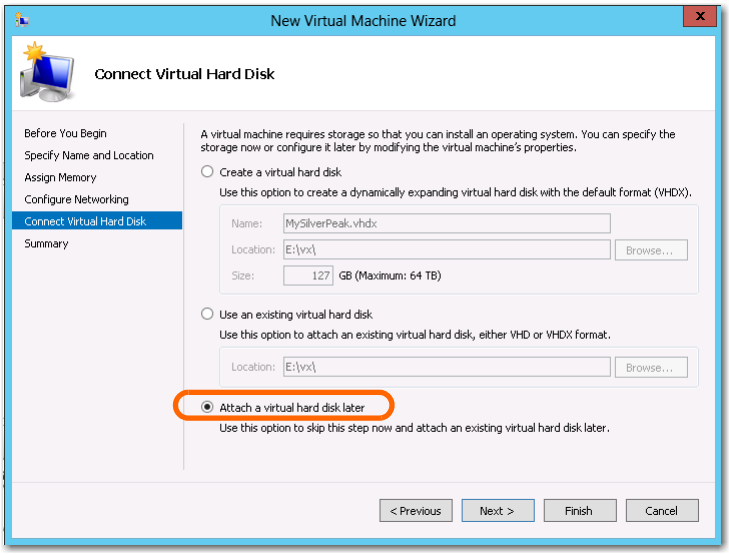
The Configure Networking screen appears.

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

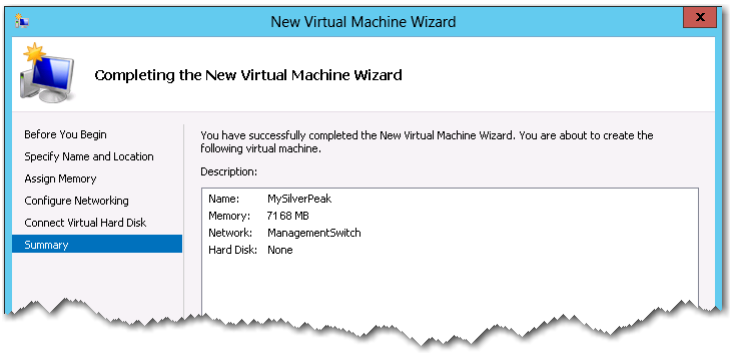
f. In the **Connection** field, select **mgmt0** from the drop-down list.



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.



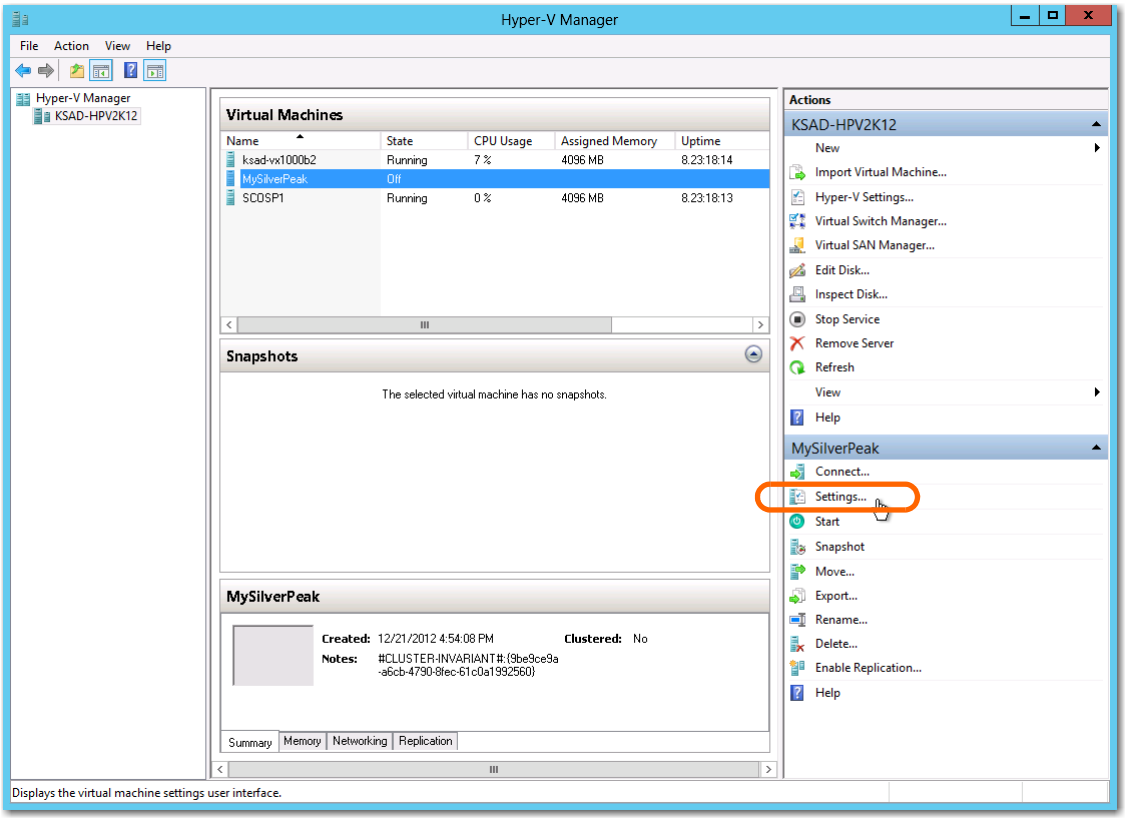
i. To create the virtual machine and close the wizard, click **Finish**.

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

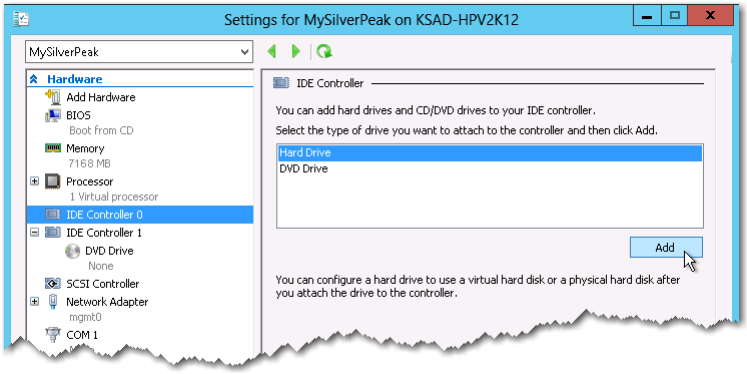
a. Return to the **Hyper-V Manager** to see that the new appliance, **MySilverPeak**, now appears in the **Virtual Machines** section.

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



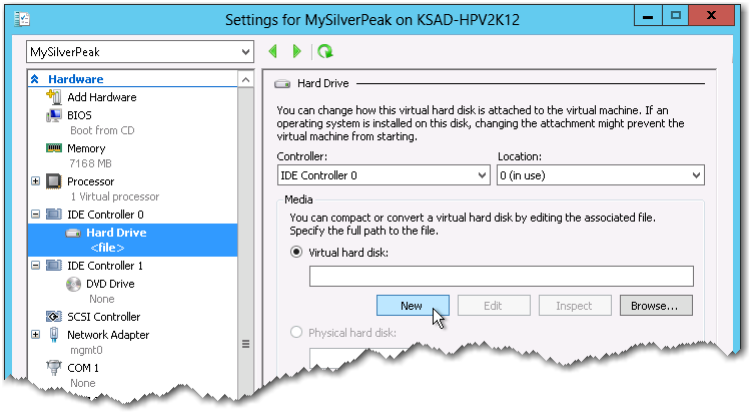
b. When the Settings for MySilverPeak window appears, do the following:

- In the left pane, under **Hardware**, select **IDE Controller 0**.
- On the right, select **Hard Drive**.



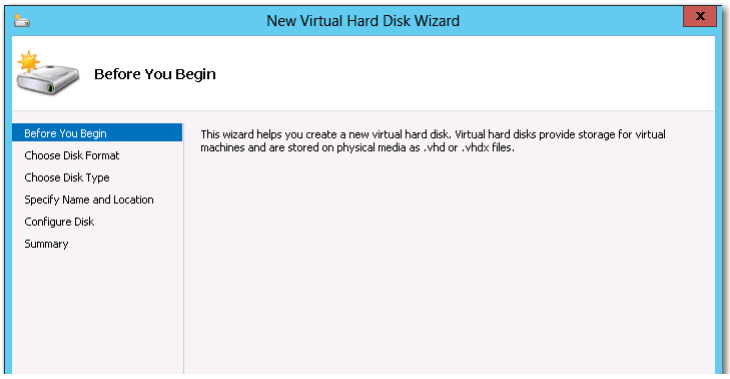
c. Click **Add**.

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



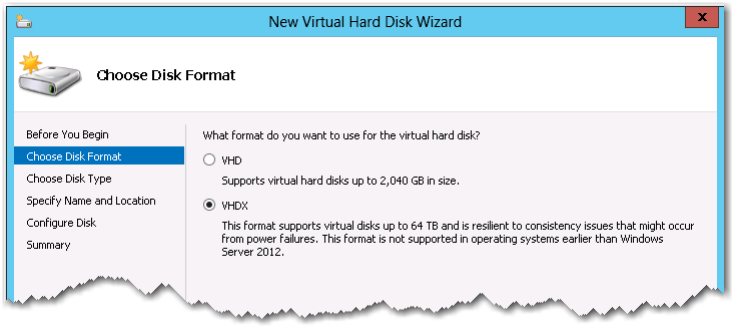
d. In the **Hard Drive** section on the right, make sure that **Virtual hard disk** is selected and click **New**.

The New Virtual Hard Disk Wizard appears.



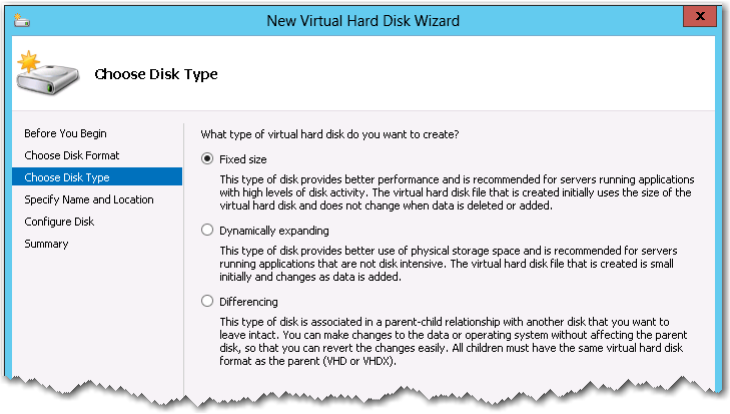
e. Click **Next**. The Choose Disk Format screen appears.

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



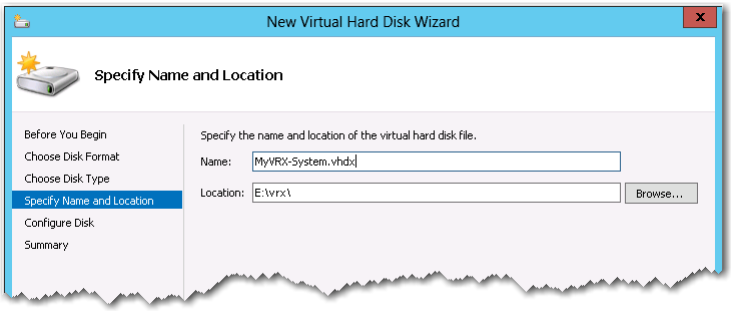
The Choose Disk Type screen appears.

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



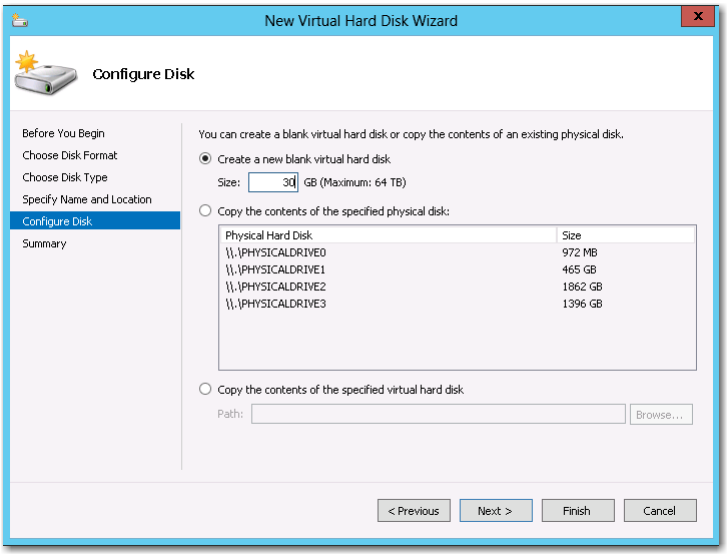
The Specify Name and Location screen appears.

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

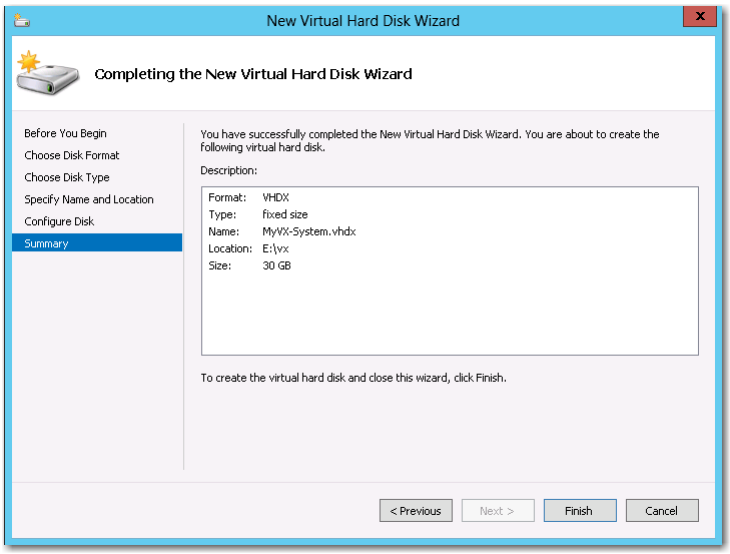


i. Click **Next**. The Configure Disk screen appears.

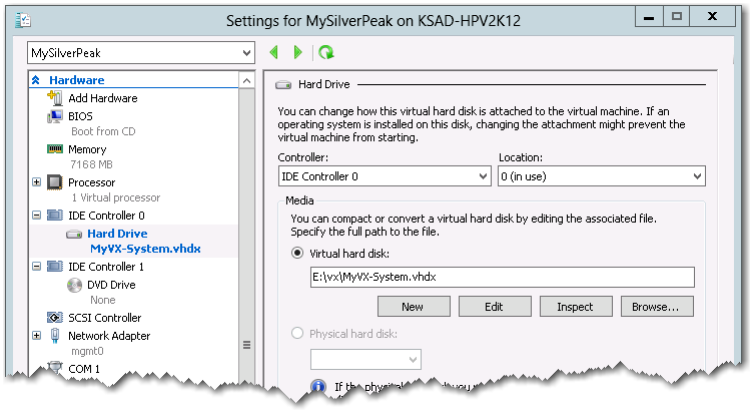
j. Select **Create a new blank virtual hard disk**, and in the **Size** field, enter `30` (for 30GB of System space). This System value is the same across all models of Silver Peak virtual appliances.



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



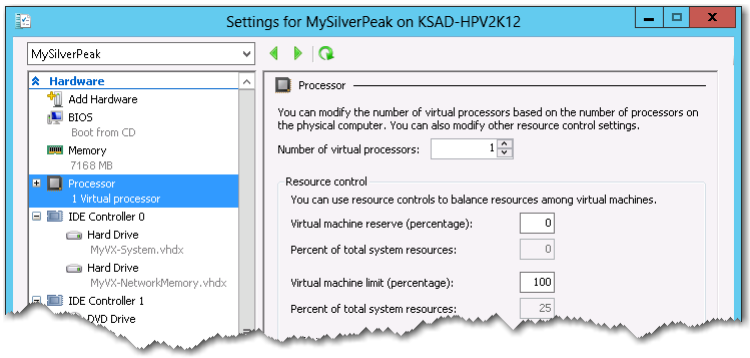
l. Click **Finish**. The wizard creates the new virtual hard disk and returns you to the Settings for MySilverPeak page, which displays the newly added hard disk.



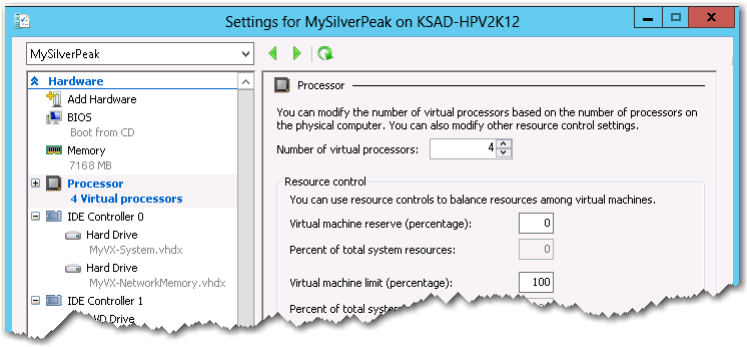
To save the addition, click **Apply**.

Now, you need to 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 *Velocity Replication Accelerator Host System Requirements* document [PN 200778-001] for your VRX model.

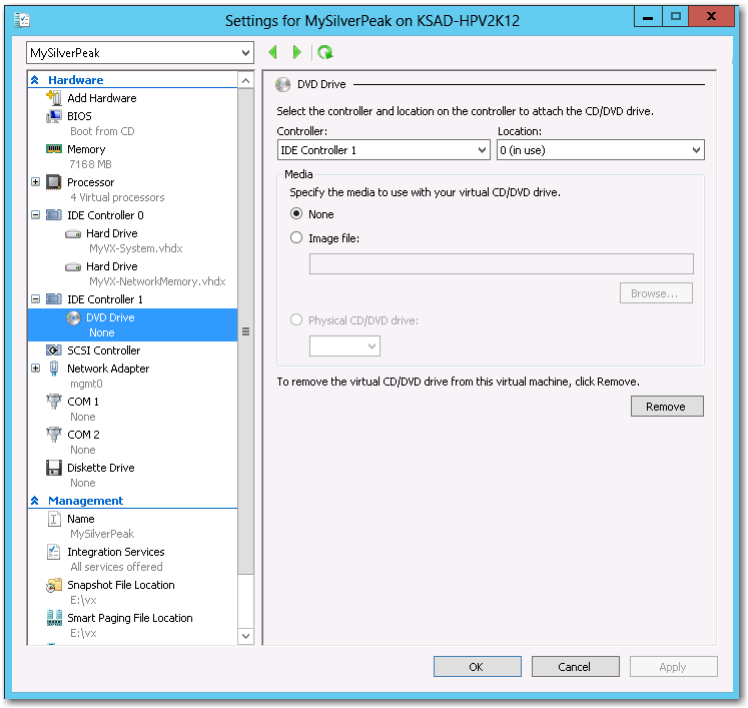


For this example, we'll enter **4** (for the VRX-4).

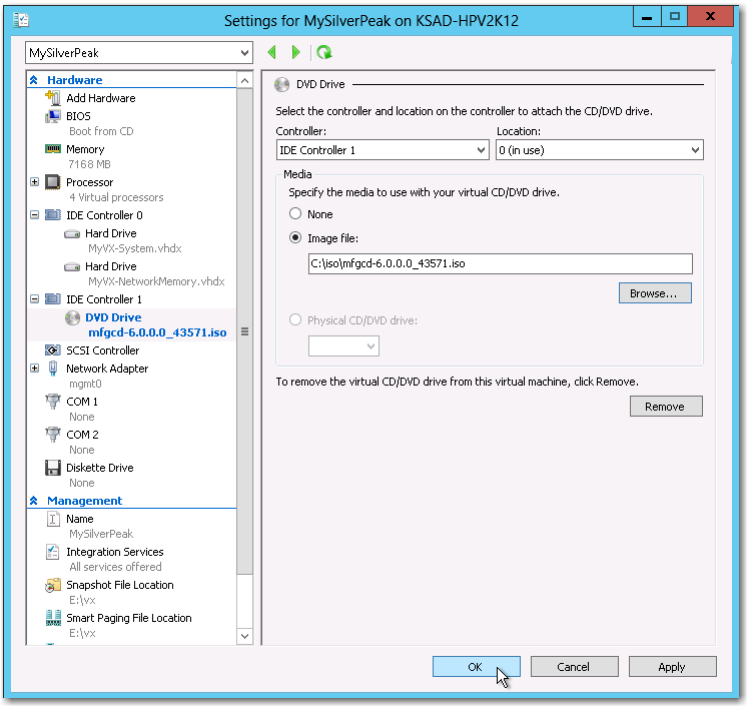
o. Click **OK**. This commits the changes and closes the window, returning you to the Hyper-V Manager.

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.

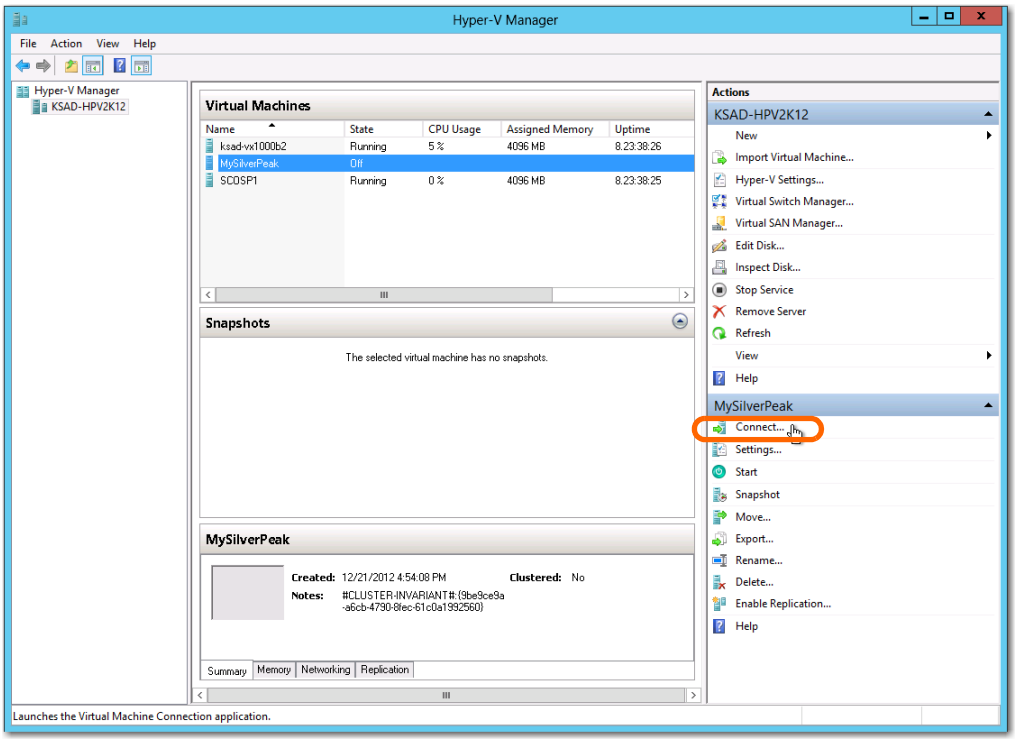


r. Click **OK**.

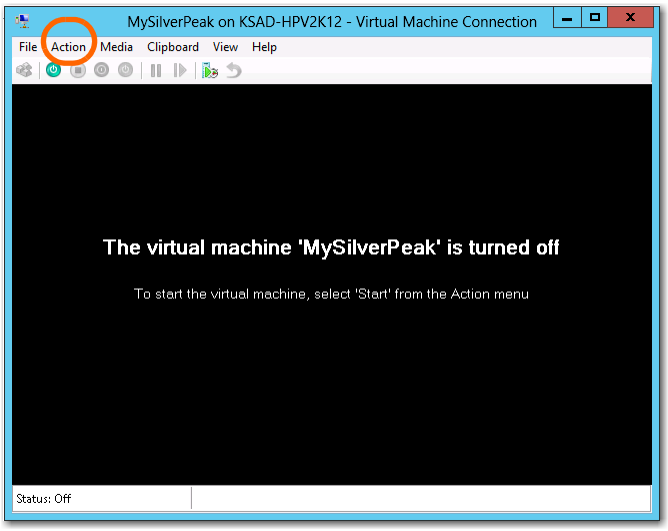
This commits the changes and closes the window, returning you to the Hyper-V Manager.

4 Establish connectivity to the virtual machine

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

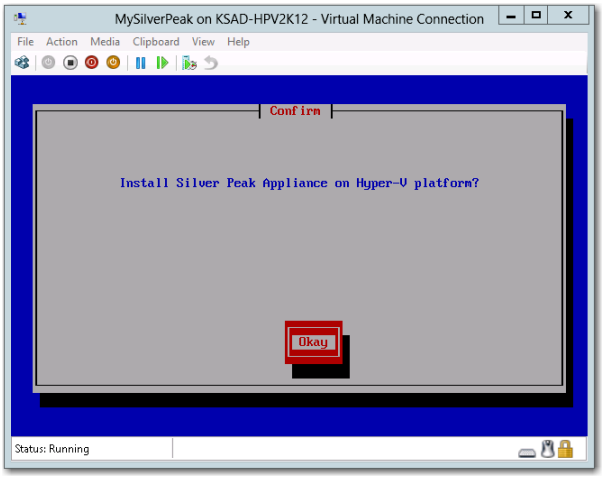


b. If the virtual machine is off, you'll get a message to select **Start** from the **Action** menu.



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

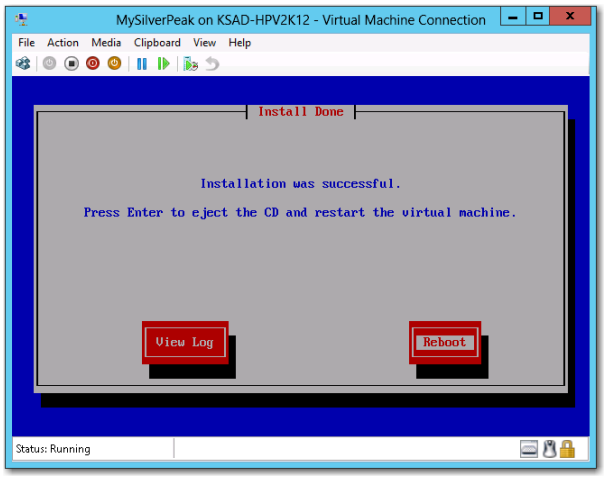
c. When the console displays the **Confirm** screen, asking, ***Install Silver Peak Appliance on Hyper-V platform?***, press **Enter** to accept **Okay**.



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

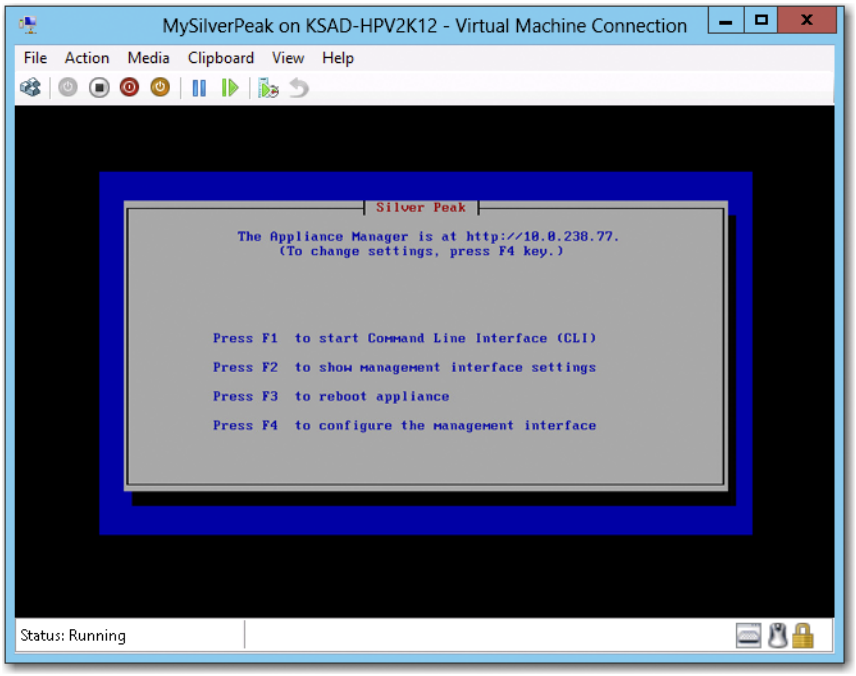
NOTE: Clicking in the console has no effect.

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.

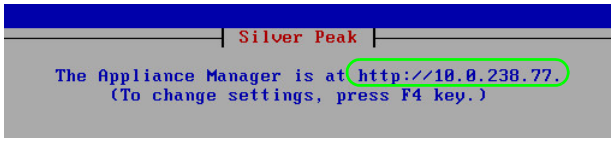
After the VX appliance boots up, the Silver Peak Console User Interface appears.



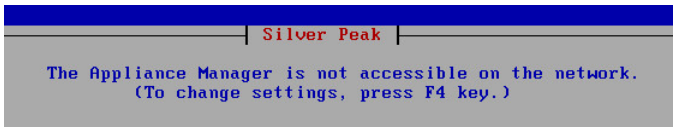
f. To access the VX appliance's user interface, you'll need to discover the IP address for its **mgmt0** interface and enter it into a browser:

The appliance and the replication applications must be in the same subnet.

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



- ***If you're <u>not</u> 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.

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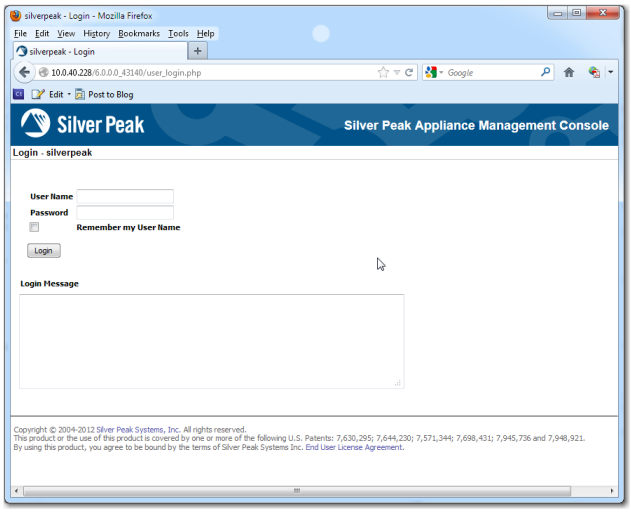
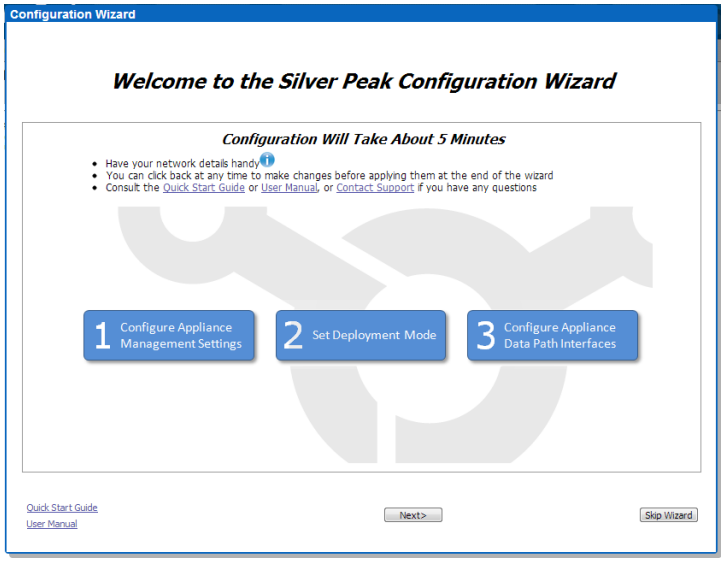
5 Run the Appliance Manager initial configuration wizard

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.

6 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.