Configuration Quick Reference

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Note Use this configuration quick reference document if you are familiar with the Cisco Services Ready Engine (SRE) Service Module and VMware vShpere Hypervisor™, and you only need a list of commands and steps to quickly set up and use Cisco Services Ready Engine Virtualization (Cisco SRE-V). Detailed information about the configuration steps is provided in subsequent chapters.

Use this configuration quick reference document if you purchased a blank Cisco SRE Service Module without the Cisco SRE-V or Microsoft Windows software.

See Figure i-1 for an example of the configuration, and see Figure i-2 for the location of the IP addresses, and then complete the steps that follow.

Figure i-1 shows an example of the configuration.

- The left pane shows an example of the Cisco IOS commands that you configure in the sm 1/0, sm 1/1, and VLAN interfaces.
- The right pane shows where the configuration is applied in Cisco SRE-V.

Note The IP addresses in the configuration example in Figure i-1 are for reference only and might not be valid.

Figure i-1 Configuration Example

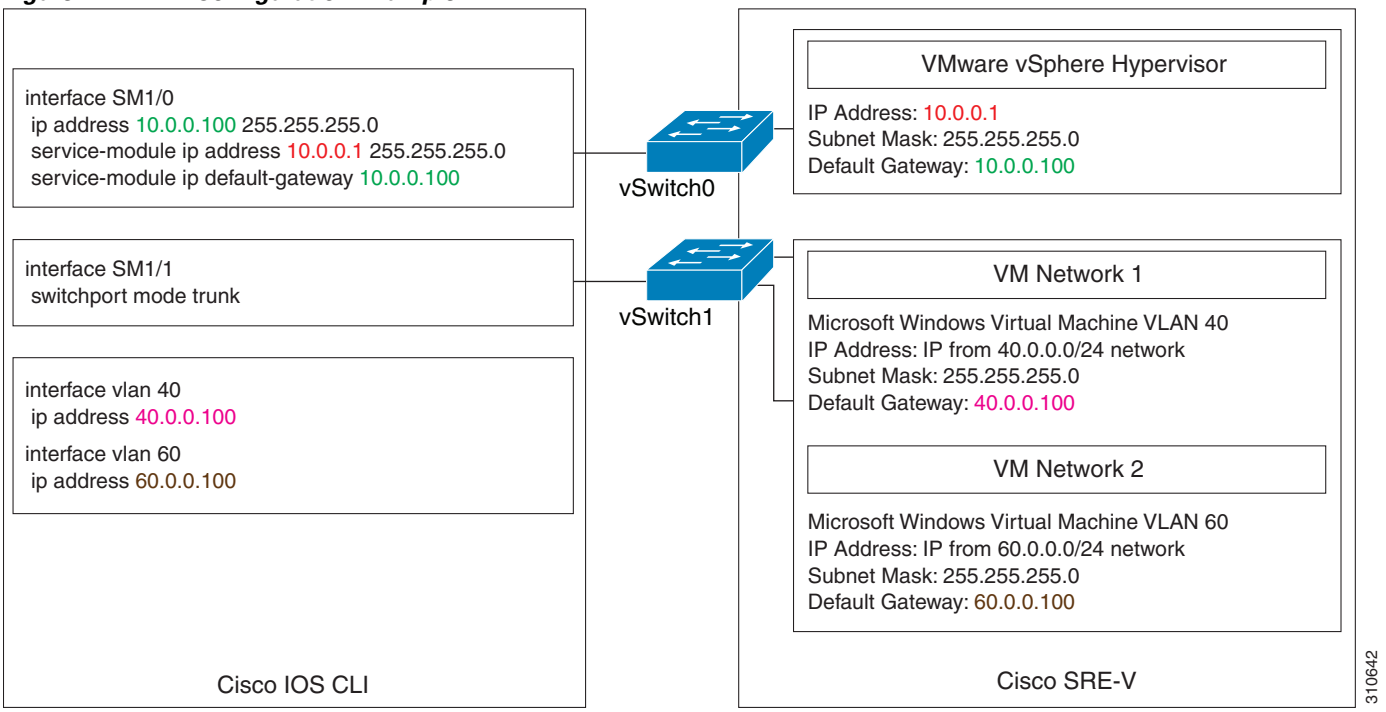
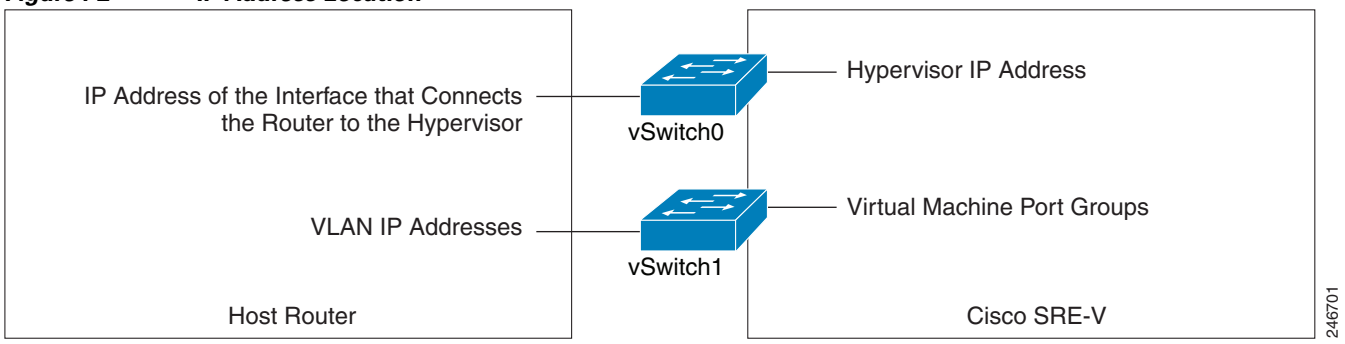


Figure i-2 shows the location of the IP addresses.

To access the VMware vSphere Hypervisor™ through the ISR G2, you must provide two IP addresses: One IP address is of the interface that connects the router to the VMware vSphere Hypervisor™; and the other IP address is of the VMware vSphere Hypervisor™.

The virtual machines are accessed through the MGF interface. The port groups on a vSwitch in the VMware vSphere Hypervisor™ can be assigned to corresponding VLAN interfaces in Cisco IOS. For example, port group 50 in the VMware vSphere Hypervisor™ can be assigned to VLAN 50 in Cisco IOS.

Figure i-2 IP Address Location



To set up and configure Cisco SRE-V, complete the following steps:

Step 1 Install the Cisco SRE Service Module into the router. See Chapter 2, "Installing the Cisco SRE Service Module into the Router."

Step 2 Configure the Cisco SRE Service Module interfaces.

- Use the following commands from the host-router CLI:
  - **enable**
  - **configure terminal**
- Configure *slot*/0 of the VMware vSphere Hypervisor™:
  - **interface sm** *slot*/**0**
  - **ip address** *router-to-hypervisor-interface-IP-address subnet-mask*
  - **service-module ip address** *hypervisor-ip-address subnet-mask*
  - **service-module ip default-gateway** *hypervisor-gateway-ip-address*
  - **no shut**
  - **exit**
- Configure *slot*/1 of the VMware vSphere Hypervisor™:
  - **interface sm** *slot*/**1**
  - **switchport mode trunk**
  - **exit**

- Configure VLANs:
  - **configure terminal**
  - **interface vlan** *vlan_number*
  - **ip address** *vlan-ip-address subnet mask*
  - **no shut**
  - **end**
- Save the configuration:
  - **copy running-config startup-config**
  - **show running-config**

For details, see Chapter 3, "Configuring the Cisco SRE Service Module Interfaces."

Step 3 Go to http://www.cisco.com/go/ucse, click **Download Software**, and then download the Cisco SRE-V files.

Step 4 Install the Cisco SRE-V software. Use the following commands from the host-router CLI:

a. **enable**

b. **service-module sm** *slot*/**0 install url** *url* **argument disk-cfg-mode={raid1 | raid0 | nonraid}**

For details, see Chapter 4, "Installing and Managing the Cisco SRE-V Software."

Step 5 Register and activate the VMware vSphere Hypervisor™ license.

For details, see Chapter 5, "Managing the VMware vSphere Hypervisor License."

Step 6 Go to https://*hypervisor-ip-address*, and download the vSphere Client. For details, see Chapter 6, "Managing Virtual Machines."

Step 7 Install the vSphere Client. For details, see Chapter 6, "Managing Virtual Machines."

Step 8 Install your own version of the Microsoft Windows Server 2003 software, Microsoft Windows Server 2008 software, or Linux distribution, and then activate the software license.

Note Microsoft Windows Server software is not available for download from Cisco.com. It can only be purchased together with the service module.

Step 9 Configure the IP addresses for the Microsoft Windows Server by using the standard Microsoft Windows network configuration setup process. See the Microsoft Windows virtual machines in Figure i-1 for an example of the network settings.

Step 10 Install VMware tools. For details, see the "Installing VMware Tools" section on page 6.