Configuration Quick Reference

Use this configuration quick reference document if you are familiar with the Cisco Services Ready Engine (SRE) Service Module and VMware vSphere 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 1 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-2 shows the location of the IP addresses that you configure on the Cisco SRE service module interfaces.

The Console Manager needs two IP addresses: One IP address is for the router side of the router-to-console manager link; and the other IP address is for the Console Manager side of the link.

The VMware vSphere Hypervisor™ also needs two IP addresses: One IP address is for the router side of the link that connects the router to the VMware vSphere Hypervisor™; and the other IP address is for the VMware vSphere Hypervisor™.

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 Console Manager:
    - `interface sm slot/0`
    - `ip address console-manager-router-side-ip-address subnet-mask`
    - `service-module ip address console-manager-ip-address subnet-mask`
    - `service-module ip default-gateway console-manager-gateway-ip-address`
    - `service-module mgf ip address hypervisor-ip-address subnet-mask`
    - `no shut`
    - `exit`
- Configure slot/1 of the Console Manager:
  - interface sm slot/1
  - switchport mode trunk
  - exit

- Configure VLAN 1:
  - interface vlan 1
  - ip address hypervisor-router-side-ip-address subnet-mask
  - no shut
  - end
  - 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](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 [script filename] [argument “string”]

c. exit

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

**Step 5** Activate the Cisco SRE-V software license. Do the following:

a. From your PC or workstation, start SSH Client, enter the IP address of the Console Manager (that you entered in Step 2), and then enter the username and password to access the Console Manager.

b. Use the following commands from the console manager interface:

  license activate license name

  reload

**Note** If you purchased Cisco SRE-V Option 2 (Hardware plus Virtualization software); or Option 3 (Hardware, plus Virtualization software, plus Microsoft Windows software), you do not need to activate the software license. For information about Cisco SRE-V software options, see the “Understanding Cisco SRE-V Options and Associated Tasks” section on page 7.

For details, see Chapter 5, “Managing the Cisco SRE-V Software Licenses.”

**Step 6** (Optional) Use the Cisco SRE-V commands to create users and roles, and then assign permissions to those users. For details, see Chapter 6, “Configuring Users, Roles, and Permissions.”

**Step 7** Configure the VMware vSphere Hypervisor™ default gateway. Do the following:

a. From your PC or workstation, start SSH Client, enter the IP address of the console manager, and then enter the username and password to access the console manager.

b. Use the following command from the console manager interface:

  hypervisor set ip default-gateway hypervisor-default-gateway-ip-address

For details, see the “Configuring the VMware vSphere Hypervisor Default Gateway” section on page 1.
Step 8  Go to https://hypervisor-ip-address, and download the vSphere Client. For details, see Chapter 7, “Managing Virtual Machines.”

Step 9  Install the vSphere Client. For details, see Chapter 7, “Managing Virtual Machines.”

Step 10  Install your own version of the Microsoft Windows Server 2003 or Microsoft Windows Server 2008 software, 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 module.

Step 11  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 12  Install VMware tools. For details, see the “Installing VMware Tools” section on page 7.