



## Configuration Quick Reference



### Note

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.

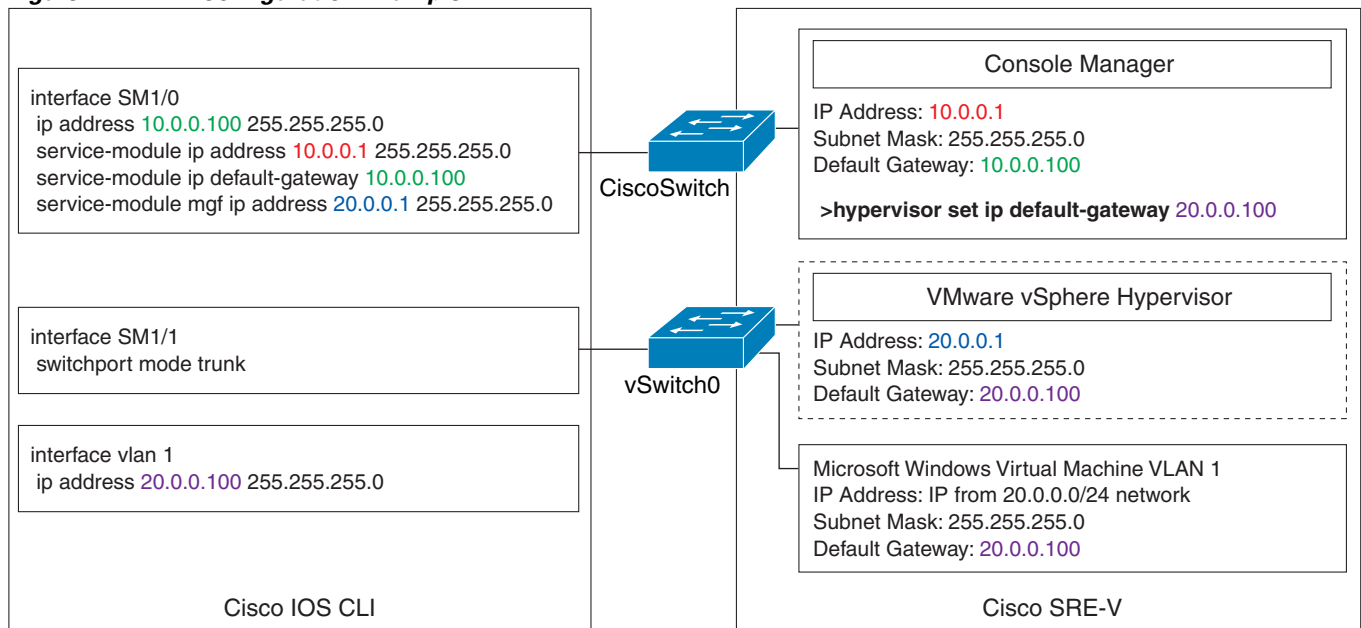
Use this configuration quick reference document if you purchased a blank Cisco SRE Service Module without the Cisco SRE-V or Microsoft Windows software.

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.

**Figure i-1 Configuration Example**



**Note**

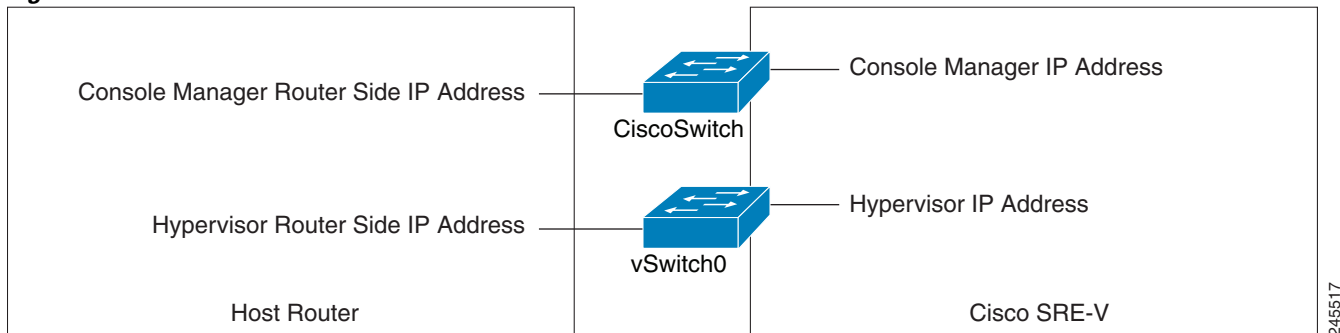
The IP addresses in the configuration example in [Figure i-1](#) are for reference only and might not be valid.

[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™.

**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 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>, 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}**
- 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
```




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**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](#).

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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.



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

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- 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](#).
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