

VRF-Aware SCP

The VRF-Aware SCP feature applies the secure copy protocol (SCP) functionality to Virtual Routing and Forwarding (VRF) interfaces using the Secure Shell (SSH) application to copy device configurations or device image files.

- Finding Feature Information, page 1
- Prerequisites for VRF-Aware SCP, page 1
- Information About VRF-Aware SCP, page 2
- How to Configure VRF-Aware SCP, page 2
- Configuration Examples for VRF-Aware SCP, page 3
- Additional References for VRF-Aware SCP, page 4
- Feature Information for VRF-Aware SCP, page 5

Finding Feature Information

Your software release may not support all the features documented in this module. For the latest caveats and feature information, see Bug Search Tool and the release notes for your platform and software release. To find information about the features documented in this module, and to see a list of the releases in which each feature is supported, see the feature information table at the end of this module.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Prerequisites for VRF-Aware SCP

- Ensure that Secure Shell (SSH) connection is enabled.
- Ensure that Virtual Routing and Forwarding (VRF) configuration is available on the device.

Information About VRF-Aware SCP

SCP and SSH

The secure copy protocol (SCP) feature allows a user with appropriate authorization to copy any file that exists in the Cisco IOS File System (IFS) to and from a device by using the copy command. Being Virtual Routing and Forwarding (VRF) aware, the SCP feature can provide the service only to a specific group or interface rather than providing global access and configuration. The VRF-aware SCP feature enables administrators to have more control and added security.

SCP relies on Secure Shell (SSH) for security and authentication.

Use the **ip ssh source-interface** command to source SSH traffic from any interface, including a VRF interface.

How to Configure VRF-Aware SCP

Configuring SCP to Use VRF-Aware Interface

Before You Begin

Configure Virtual Routing and Forwarding (VRF) aware interfaces.

SUMMARY STEPS

- 1. enable
- 2. configure terminal
- 3. ip ssh source-interface interface
- 4. exit
- **5. copy running-config scp:**//username@destination-host-address[/destination-directory][/destination-filename]
- **6. copy scp:**//username@source-host-address[/source-directory][/source-filename] **bootflash:**
- 7. exit

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.
	Example:	 Enter your password if prompted.
	Device> enable	

	Command or Action	Purpose
Step 2	configure terminal	Enters global configuration mode.
	Example:	
	Device# configure terminal	
Step 3	ip ssh source-interface interface	Specifies the IP address of an
	Example:	interface as the source address for a Secure Shell (SSH) client device. Provide a VRF-aware
	Device(config)# ip ssh source-interface GigabitEthernet 1/1	interface to use the VRF-Aware SCP feature.
Step 4	exit	Exits global configuration mode and returns to privileged EXEC
	Example:	mode.
	Device(config)# exit	
Step 5	copy running-config scp://username@destination-host-address[/destination-directory][/destination-filename]	Copies a file from the current running configuration file of the source device to a destination
	Example:	device with secure copy protocol
	Device# copy running-config scp://guest@10.76.76.160/router.cfg	(SCP).
Step 6	<pre>copy scp://username@source-host-address[/source-directory][/source-filename] bootflash:</pre>	Copies a file to the boot flash memory of the destination device from the source device with SCP.
	Example:	nom me source de vice with ser.
	Device# copy scp://guest@10.76.76.160/router.cfg bootflash:	
Step 7	exit	Exits privileged EXEC mode and returns to user EXEC mode.
	Example:	
	Device# exit	

Configuration Examples for VRF-Aware SCP

Example: Configuring SCP Using VRF-Aware Interface

Device> enable
Device# configure terminal
Device(config)# ip ssh source-interface GigabitEthernet 1/1

```
Device(config)# exit
Device# copy running-config scp://guest@10.76.76.160/router.cfg

Address or name of remote host [10.76.76.160]?
Destination username [guest]?
Destination filename [router.cfg]?
Writing router.cfg Password:
!
Sink: C0644 2574 router.cfg
2574 bytes copied in 20.852 secs (123 bytes/sec)

Device# copy scp://guest@10.76.76.160/router.cfg bootflash:
Destination filename [router.cfg]?
Password:
Sending file modes: C0644 2574 router.cfg
!
2574 bytes copied in 17.975 secs (143 bytes/sec)

Device# exit
```

Additional References for VRF-Aware SCP

Related Documents

Related Topic	Document Title	
Cisco IOS commands	Cisco IOS Master Command List, All Releases	
Security commands	Cisco IOS Security Command Reference: Commands A to C	
	Cisco IOS Security Command Reference: Commands D to L	
	Cisco IOS Security Command Reference: Commands M to R	
	Cisco IOS Security Command Reference: Commands S to Z	
Secure Copy Protocol	"Secure Copy" module in the Secure Shell Configuration Guide publication	

Technical Assistance

Description	Link
The Cisco Support website provides extensive online resources, including documentation and tools for troubleshooting and resolving technical issues with Cisco products and technologies.	http://www.cisco.com/cisco/web/support/index.html
To receive security and technical information about your products, you can subscribe to various services, such as the Product Alert Tool (accessed from Field Notices), the Cisco Technical Services Newsletter, and Really Simple Syndication (RSS) Feeds.	
Access to most tools on the Cisco Support website requires a Cisco.com user ID and password.	

Feature Information for VRF-Aware SCP

The following table provides release information about the feature or features described in this module. This table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Use Cisco Feature Navigator to find information about platform support and Cisco software image support. To access Cisco Feature Navigator, go to www.cisco.com/go/cfn. An account on Cisco.com is not required.

Table 1: Feature Information for VRF-Aware SCP

Feature Name	Releases	Feature Information
VRF-Aware SCP	15.2(1)SY	The VRF-Aware SCP feature applies the secure copy protocol (SCP) functionality to Virtual Routing and Forwarding (VRF) interfaces using the Secure Shell (SSH) application to copy device configurations or device image files. The following commands were introduced or modified by this feature: ip ssh source-interface.

Feature Information for VRF-Aware SCP