



## System Operations Commands

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# scp

To secure copy a file from the Cisco NFVIS to an external system or from an external system to Cisco NFVIS, the admin user can use the **scp** command in privileged EXEC mode.

For detailed information about how to use this command to copy to or from supported locations, see the *Usage Guidelines* section.

**scp** *source destination*

## Syntax Description

<i>source</i>	<p>To copy a file from an external system, specify the source in the following format: <i>user@remotehostip:file</i>.</p> <p>To copy a file to an external system, specify the NFVIS location and name of the file.</p> <p>The external host can have an IPv4 or IPv6 address as described in the <i>Usage Guidelines</i> section.</p>
<i>destination</i>	<p>To copy a file to an external system, specify the the destination in the following format: <i>user@remotehostip:file</i>.</p> <p>To copy a file from an external system, specify the NFVIS location and name of the file.</p> <p>The external host can have an IPv4 or IPv6 address as described in the <i>Usage Guidelines</i> section.</p>

## Command Default

None

## Command Modes

Privileged EXEC (#)

## Command History

Release	Modification
3.7.1	Support for IPv6 address, NFS location, USB, prefix mappings and log file copy was added.
3.6.1	This command was introduced.

## Usage Guidelines

Following are the guidelines for using the **scp** command:

- Supported Users: Only the admin user can run the **scp** command.
- Certain special characters are blacklisted from source and destination path, except in certain positions - '\*', '&', ';', ':', '@', '|', '!'.
- Supported Locations
  - The admin user can copy files to and from the `intdatastore`, `extdatastore1`, `extdatastore2`, `usb`, and `nfs` locations in Cisco NFVIS. In addition, the admin user can copy the log files from Cisco NFVIS to an external system.

Any attempt to SCP to NFVIS file system other than the mentioned list is prohibited by the command:

```
intdatastore - /data/intdatastore/uploads/
```

```
extdatastore1 - /mnt/extdatastore1/uploads/
```

extdatastore2 - /mnt/extdatastore2/uploads/

usb - /mnt-usb/

nfs - /data/mount/

logs - /data/intdatastore/logs

You can copy to and from `extdatastore1`, `extdatastore2`, `usb`, and `nfs` locations only if they are available or mounted. The `extdatastore1` and `extdatastore2` locations are available only in the Cisco ENCS 5400 Series.

- The admin user can copy the log files from the `logs` folder of Cisco NFMVIS to an external system. Copying files to the `logs` folder is not allowed. All SCP actions are logged into `/data/intdatastore/logs/nfmvis_scp.log` file.
- To copy to or from a USB, you must first mount the USB by using the **system usb-mount mount ACTIVE** command. After the USB is mounted, use the **show system file-list disk usb** command to find the exact USB name and provide the identified USB name in the **scp** command; for example, **scp user@remotehostip:fileusb:usb\_name/filename**.
- To copy to or from NFS, you must first mount an NFS location by using the **system storage nfs\_storage** command. After the NFS is mounted, you must specify the name of the NFS mount in the **scp** command; for example, **scp user@remotehostip:filenfs: mount\_name/filename**.
- Supported Address Types: You can specify IPv4 or IPv6 address of an external system. The IPv6 address of the external system must be specified within square brackets ([ ]); for example, **scp user@[remotehostip]:sourcefile destinationfile**

### Example

The following example copies the `sample.txt` file from `intdatastore` to an external system.

```
nfmvis# scp intdatastore:sample.txt user@203.0.113.2:/Users/user/Desktop/sample.txt
```

### Example

The following example copies the `test.txt` file from an external system to `intdatastore`.

```
nfmvis# scp user@203.0.113.2:/Users/user/Desktop/test.txt intdatastore:test_file.txt
```

### Example

The following example copies the `test.txt` file from an external system to USB.

```
nfmvis# scp user@203.0.113.2:/user/Desktop/my_test.txt usb:usb1/test.txt
```

### Example

The following example copies the `sample.txt` file to an NFS location.

```
nfmvis# scp user@203.0.113.2:/user/Desktop/sample.txt nfs:nfs_test/sample.txt
```

**Example**

The following example copies the sample.txt file from an external system with IPv6 address.

```
nfvis# scp user@[2001:DB8:0:ABCD::1]:/user/Desktop/sample.txt intdatastore:sample.txt
```

**Example**

The following example copies the nfvis\_scp.log file to an external system.

```
nfvis# scp logs:nfvis_scp.log user@203.0.113.2:/Users/user/Desktop/copied_nfvis_scp.log
```

# system file-copy usb

To copy a VM image using the USB drive, use the **system file-copy usb** command in global configuration mode.

```
system file-copy usb file name string
```

<b>Syntax Description</b>	<b>file name string</b> Specifies the file name of the VM image.				
<b>Command Default</b>	None				
<b>Command Modes</b>	Global configuration (config)				
<b>Command History</b>	<table><thead><tr><th>Release</th><th>Modification</th></tr></thead><tbody><tr><td></td><td>This command was introduced.</td></tr></tbody></table>	Release	Modification		This command was introduced.
Release	Modification				
	This command was introduced.				

## Example

The following example shows how to copy a VM image using the USB drive:

```
nfvis(config)# system usb-mount mount active  
nfvis(config)# system file-copy usb file name usb1/package/isrv-universalk9.16.03.01.tar.gz  
nfvis(config)# commit
```

# system file-download file

To download a file to a specific location (`/data/intdatastore/uploads`) on the host server, from a HTTP server, use the **system file-download file** command.

```
system file-download file { source http checksum sha256 checksum }
```

<b>Syntax Description</b>	<b>source</b> Specifies the path for the file to be copied.				
	(Optional) <b>checksum</b> Specifies the SHA256 checksum for the file to be downloaded.				
<b>Command Default</b>	None				
<b>Command Modes</b>	None				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>3.9.1</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	3.9.1	This command was introduced.
Release	Modification				
3.9.1	This command was introduced.				

## Example

The following example shows how to download a file to a specific location (`/data/intdatastore/uploads`) on the host server, from the HTTP server:

```
nfvis# system:system file-download file { source http://1.2.3.4/file_1 checksum
73f0474f9d145c8e2d89e9b3dda937676a52e854bc76c2da18738733503a0d83 }
```



**Note** Multiple files can be downloaded, either with or without checksum, at the same time.

# system file-delete

To delete a file from the default location (/data/intdatastore/uploads) on the host server, use the **system file-delete** command in global configuration mode.

```
system file-delete file name string
```

<b>Syntax Description</b>	<b>name</b> <i>string</i> Specifies the name of the file.				
<b>Command Default</b>	None				
<b>Command Modes</b>	Global configuration (config)				
<b>Command History</b>	<table><thead><tr><th>Release</th><th>Modification</th></tr></thead><tbody><tr><td>3.5.1</td><td>This command was introduced.</td></tr></tbody></table>	Release	Modification	3.5.1	This command was introduced.
Release	Modification				
3.5.1	This command was introduced.				

## Example

The following example shows how to delete a file from the default location on the host server:

```
nfvis(config)# system file-delete file name /data/intdatastore/uploads/TinyLinux.tar.gz
nfvis(config)# commit
```

# system usb-mount

To mount the USB drive on the NFVIS server, use the **system usb-mount** command in global configuration mode. To unmount, use the **no** form of this command.

**system usb-mount mount active**

**no system usb-mount**

<b>Syntax Description</b>	<b>mount active</b> Mounts the USB drive on the NFVIS server.				
<b>Command Default</b>	None				
<b>Command Modes</b>	Global configuration (config)				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>3.5.1</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	3.5.1	This command was introduced.
Release	Modification				
3.5.1	This command was introduced.				
<b>Usage Guidelines</b>	Ensure that you have plugged the USB drive that contains the required images into the server before mounting the USB drive.				

## Example

```
nfvis(config)# system usb-mount mount active
nfvis(config)# commit
```



# telnet

To open a telnet session to a local service on a serial port, use the **telnet** command in privileged EXEC mode.

**telnet** *serial-port*

<b>Syntax Description</b>	<i>serial-port</i> Specifies the name of the serial port. The serial port must be enabled for the VM.				
<b>Command Default</b>	None				
<b>Command Modes</b>	Privileged EXEC (#)				
<b>Command History</b>	<table border="1"> <thead> <tr> <th>Release</th> <th>Modification</th> </tr> </thead> <tbody> <tr> <td>3.7.1</td> <td>This command was introduced.</td> </tr> </tbody> </table>	Release	Modification	3.7.1	This command was introduced.
Release	Modification				
3.7.1	This command was introduced.				

## Example

```
nfvis# telnet 7000
Trying 127.0.0.85...
Connected to 127.0.0.85.
Escape character is '^]'.

```

```
Router>
Router>
Router>?
Exec commands:
  access-profile  Apply user-profile to interface
  app-hosting     Application hosting
  appnav         IOS Wide Area Application Services
  clear          Reset functions
  connect        Open a terminal connection
  crypto         Encryption related commands.
  disable        Turn off privileged commands
  disconnect     Disconnect an existing network connection
  do-exec        Mode-independent "do-exec" prefix support
  enable         Turn on privileged commands
  ethernet       Ethernet parameters
  exit           Exit from the EXEC
  help           Description of the interactive help system
  ip             IP SLA Exec Command
  lat            Open a lat connection
  license        Smart licensing Commands
  lig            LISP Internet Groper
  lock           Lock the terminal
  login          Log in as a particular user
  logout         Exit from the EXEC
  mrinfo        Request neighbor and version information from a multicast
--More--

```

# show system file-list

To display a list of system files, use the **show system file-list** command in privileged EXEC mode.

```
show system file-list [disk [{local | nfs | usb}]]
```

Syntax Description	disk	Displays files from the specified disk type.
	local	Displays the files on local system.
	nfs	Displays the files on NFS.
	usb	Displays the files on mounted USB drive.
Command Modes	Privileged EXEC (#)	
Command History	Release	Modification
	3.6.1	This command was introduced.

## Example

```
nfvis# show system file-list
system file-list disk local 1
  name          nfvisvmpackagingtool.tar
  path          /data/intdatastore/uploads/vmpackagingutility
  size          50K
  type          "VM Packaging Tool"
  date-modified "2017-09-07 02:18:53"
system file-list disk local 2
  name          catalina.out-20171001.gz
  path          /data/intdatastore/logs/2017-10
  size          40
  type          "Log File"
  date-modified "2017-10-01 04:00:01"
system file-list disk local 3
  name          ovbdb-server.log-20171001.gz
  path          /data/intdatastore/logs/2017-10
  size          276
  type          "Log File"
  date-modified "2017-10-01 04:00:01"
system file-list disk local 4
  name          ovs-vswitchd.log-20171001.gz
  path          /data/intdatastore/logs/2017-10
  size          204
  type          "Log File"
  ...
```