

# Using the Device File Systems, Directories, and Files

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# Information About the Device File Systems, Directories, and Files

This section describes file systems, directories, and files on the Cisco NX-OS device.

# **File Systems**

The syntax for specifying a local file system is *filesystem*:[//modules/]. This table describes file systems that you can reference on your device.

Table 1: File System Syntax Components

File System Name	Module	Description
bootflash	sup-active sup-local	Internal CompactFlash memory located on the active supervisor module used for storing image files, configuration files, and other miscellaneous files. The initial default directory is bootflash.

File System Name	Module	Description
bootflash	sup-standby sup-remote	Internal CompactFlash memory located on the standby supervisor module used for storing image files, configuration files, and other miscellaneous files.
volatile	_	Volatile random-access memory (VRAM) located on a supervisor module used for temporary or pending changes.
log	_	Memory on the active supervisor that stores logging file statistics.
system		Memory on a supervisor module used for storing the running-configuration file.
debug	_	Memory on a supervisor module used for debug logs.

# **Directories**

You can create directories on bootflash: and external flash memory (slot0:, usb1:, and usb2:). You can navigate through these directories and use them for files.

# **Files**

You create and access files on bootflash:. volatile:, slot0:, usb1:, and usb2: file systems. You can only access files on the system: file systems. You can use the debug: file system for debug log files specified in the **debug logfile** command.

You can download files, such as system image files, from remote servers using FTP, Secure Copy (SCP), Secure Shell FTP (SFTP), and TFTP. You can also copy files from an external server to the device, because the device can act as an SCP server.

# **Working with Directories**

This section describes how to work with directories on the Cisco NX-OS device.

# **Identifying the Current Directory**

You can display the directory name of your current directory.

### **SUMMARY STEPS**

1. pwd

#### **Procedure**

	Command or Action	Purpose
Step 1	pwd	Displays the name of your current directory.
	Example:	
	switch# pwd	

# **Changing the Current Directory**

You can change the current directory for file system operations. The initial default directory is bootflash:.

### **SUMMARY STEPS**

- 1. (Optional) pwd
- **2. cd** {directory | filesystem:[//module/][directory]}

#### **DETAILED STEPS**

### **Procedure**

	Command or Action	Purpose
Step 1	(Optional) pwd	Displays the name of your current default directory.
	Example:	
	switch# pwd	
Step 2	cd {directory   filesystem:[//module/][directory]}	Changes to a new current directory. The file system, module,
	Example:	and directory names are case sensitive.
	switch# cd slot0:	

# **Creating a Directory**

You can create directories in the bootflash: and flash device file systems.

#### **SUMMARY STEPS**

- 1. (Optional) pwd
- **2.** (Optional) **cd** { directory | filesystem:[//module/][directory]}
- **3. mkdir** [filesystem:[//module/]]directory

#### **Procedure**

	Command or Action	Purpose
Step 1	(Optional) pwd	Displays the name of your current default directory.
	Example:	
	switch# pwd	
•   •	(Optional) cd {directory   filesystem:[//module/][directory]}	Changes to a new current directory. The file system, module, and directory names are case sensitive.
	Example:	
	switch# cd slot0:	
Step 3	mkdir [filesystem:[//module/]]directory	Creates a new directory. The <i>filesystem</i> argument is case
	Example:	sensitive. The <i>directory</i> argument is alphanumeric, case
	switch# mkdir test	sensitive, and has a maximum of 64 characters.

# **Displaying Directory Contents**

You can display the contents of a directory.

### **SUMMARY STEPS**

**1. dir** [directory | filesystem:[//module/][directory]]

### **DETAILED STEPS**

### **Procedure**

	Command or Action	Purpose
Step 1	dir [directory   filesystem:[//module/][directory]]	Displays the directory contents. The default is the current
	Example:	working directory. The file system and directory names are case sensitive.
	switch# dir bootflash:test	case sensitive.

# **Deleting a Directory**

You can remove directories from the file systems on your device.

# Before you begin

Ensure that the directory is empty before you try to delete it.

### **SUMMARY STEPS**

1. (Optional) pwd

- **2.** (Optional) **dir** [filesystem:[//module/][directory]]
- **3. rmdir** [filesystem:[//module/]]directory

### **Procedure**

	Command or Action	Purpose
Step 1	(Optional) pwd	Displays the name of your current default directory.
	Example: switch# pwd	
Step 2	(Optional) dir [filesystem:[//module/][directory]]  Example: switch# dir bootflash:test	Displays the contents of the current directory. The file system, module, and directory names are case sensitive.  If the directory is not empty, you must delete all the files before you can delete the directory.
Step 3	<pre>rmdir [filesystem :[//module/]]directory Example: switch# rmdir test</pre>	Deletes a directory. The file system and directory name are case sensitive.

# **Accessing Directories on Standby Supervisor Modules**

This example shows how to list the files on the standby supervisor module:

This example shows how to delete a file on the standby supervisor module:

```
switch# delete bootflash://sup-remote/aOldConfig.txt
```

# **Working with Files**

This section describes how to work with files on the Cisco NX-OS device.

# **Moving Files**

You can move a file from one directory to another directory.



Caution

If a file with the same name already exists in the destination directory, that file is overwritten by the moved file.

You can use the **move** command to rename a file by moving the file within the same directory.

#### **SUMMARY STEPS**

- 1. (Optional) pwd
- **2.** (Optional) **dir** [filesystem:[//module/][directory]]
- **3. move** [filesystem:[//module/][directory /] | directory/]source-filename {{filesystem:[//module/][directory /] | directory/}[target-filename] | target-filename}

### **DETAILED STEPS**

### **Procedure**

	Command or Action	Purpose
Step 1	(Optional) <b>pwd</b>	Displays the name of your current default directory.
	Example:	
	switch# pwd	
Step 2	(Optional) dir [filesystem:[//module/][directory]]	Displays the contents of the current directory. The file
	Example:	system and directory name are case sensitive.
	switch# dir bootflash	
Step 3	move [filesystem:[//module/][directory /]	Moves a file.
	directory/]source-filename {{filesystem:[//module/][directory /]   directory/}[target-filename]   target-filename}	The file system, module, and directory names are case sensitive.
	Example:	The <i>target-filename</i> argument is alphanumeric, case sensitive, and has a maximum of 64 characters. If the
	switch# move test old_tests/test1	target-filename argument is not specified, the filename defaults to the source-filename argument value.

# **Copying Files**

This example shows how to copy the file called samplefile from the root directory of the slot0: file system to the mystorage directory:

switch# copy slot0:samplefile slot0:mystorage/samplefile

This example shows how to copy a file from the current directory level:

switch# copy samplefile mystorage/samplefile

This example shows how to copy a file from the active supervisor module bootflash to the standby supervisor module bootflash:

switch# copy bootflash:system image bootflash://sup-2/system image

You can also use the **copy** command to upload and download files from the slot0: or bootflash: file system to or from a FTP, TFTP, SFTP, or SCP server.

# **Copying Files to the HTTP Server**

You can copy a file from boot flash, running configuration, or startup configuration to the HTTP server in the default path of server using the new feature HTTP PUT. The HTTP PUT functionality copies a file into the HTTP server via the default or the management VRF. It uses the HTTP POST method to upload the files and HTTP upload can be done via v4/v6 interface to v4/v6 HTTP server.

#### **SUMMARY STEPS**

- 1. (Optional) pwd
- **2. copy bootflash :**///<filename> **http:**// <httpserver-ip> /path source-interface < interface>
- **3. copy bootflash :**///<filename> **http:**// <httpserver-ip>/path vrf <default/management>
- **4. copy running-config http:**//<httpserver-ip>/path vrf <default/management>
- **5. copy startup-config http:**//<httpserver-ip>/path vrf <default/management>

### **DETAILED STEPS**

	Command or Action	Purpose
Step 1	(Optional) <b>pwd</b>	Displays the name of your current default directory.
	Example: switch# pwd	
Step 2	Required: <b>copy bootflash :</b> ///< <i>filename&gt;</i> <b>http:</b> //    path source-interface < interface>	Copies the file from the boot flash into the HTTP server via the source interface.
	<pre>Example: switch# copy bootflash:///<filename> http://httpserver-ip/path source-interface <int></int></filename></pre>	
Step 3	Required: <b>copy bootflash :</b> ///< <i>filename&gt;</i> <b>http:</b> // /path vrf <default management=""></default>	Copies the file from the boot flash into the HTTP server via the default or the management VRF interface.
	Example:	
	switch# copy bootflash:/// <filename> http://httpserver-ip/path vrf <default management=""></default></filename>	

	Command or Action	Purpose
Step 4	Required: <b>copy running-config http:</b> // <httpserver-ip>/path vrf <default management=""></default></httpserver-ip>	Copies the running configuration file into the HTTP server via the default or the management VRF interface.
	Example:	
	<pre>switch# copy running-config http://httpserver-ip/path vrf <default management=""></default></pre>	
Step 5	Required: <b>copy startup-config http:</b> // <httpserver-ip>/path vrf <default management=""></default></httpserver-ip>	Copies the startup configuration file into the HTTP server via the default or the management VRF interface.
	Example:	
	<pre>switch# copy startup-config http://httpserver-ip/path vrf <default management=""></default></pre>	

### **Example**

This example shows how to copy a file to an HTTP server via the default VRF interface:

```
switch# copy n3000-uk9-kickstart.6.0.2.U5.0.995.bin http://12.1.2.10/httproot vrf default
Enter username: test
Enter host password for user 'test':
301 - Moved permanently to <a href="/httproot/">/httproot/</a>Copy
complete, now saving to disk (please wait)...
switch#
```

# **Copying Files Using HTTP or HTTPS**

You can make copies of files from remote server to local device using HTTP or HTTPS.



Note

Beginning with Cisco NX-OS Release 10.4(3)F, the **copy http** or **copy https** command supports TLS version 1.3 and 1.2 on Cisco Nexus switches.

### **SUMMARY STEPS**

- 1. (Optional) pwd
- **2.** (Optional) **dir** [filesystem:[//module/][directory]]
- 3. copy https:// username:password@directory/filename bootflash: vrf management
- 4. copy http:// directory/filename bootflash: vrf management

### **Procedure**

	Command or Action	Purpose
Step 1	(Optional) pwd	Displays the name of your current default directory.
	Example: switch# pwd	
Step 2	(Optional) dir [filesystem:[//module/][directory]]  Example: switch# dir bootflash	Displays the contents of the current directory. The file system and directory name are case sensitive.
Step 3	copy https:// username:password@directory/filename bootflash: vrf management	Copies the specified files from remote server to local device using <b>https</b> option.
	Example:  switch(config) # copy https://username1:pwd1@192.168.0.1/test.txt bootflash: vrf management	
Step 4	<pre>copy http://directory/filename bootflash: vrf management Example:     switch(config) # copy http://192.168.0.1/test.txt     bootflash: vrf management</pre>	Copies the specified files from remote server to local device using <b>http</b> option.

# **Deleting Files**

You can delete a file from a directory.

# **SUMMARY STEPS**

- **1.** (Optional) **dir** [filesystem:[//module/][directory]]
- **2. delete** {filesystem:[//module/][directory/] | directory/}filename

### **DETAILED STEPS**

	Command or Action	Purpose
Step 1	(Optional) dir [filesystem:[//module/][directory]]	Displays the contents of the current directory. The file system and directory name are case sensitive.
	Example:	
	switch# dir bootflash	

	Command or Action	Purpose
Step 2	<pre>delete {filesystem:[//module/][directory/]   directory/}filename</pre>	Deletes a file. The file system, module, and directory names are case sensitive. The <i>source-filename</i> argument is case
	Example:	sensitive.
	switch# delete test old_tests/test1	Caution If you specify a directory, the delete command deletes the entire directory and all its contents.

# **Displaying File Contents**

You can display the contents of a file.

#### **SUMMARY STEPS**

**1. show file** [filesystem:[//module/]][directory/]filename

### **DETAILED STEPS**

### **Procedure**

	Command or Action	Purpose
Step 1	show file [filesystem:[//module/]][directory/]filename	Displays the file contents.
	Example:	
	switch# show file bootflash:test-results	

# **Displaying File Checksums**

You can display checksums to check the file integrity.

### **SUMMARY STEPS**

**1. show file** [filesystem:[//module/]][directory/]filename {**cksum** | **md5sum**}

#### **DETAILED STEPS**

	Command or Action	Purpose
Step 1	<pre>show file [filesystem:[//module/]][directory/]filename {cksum   md5sum}</pre>	Displays the checksum or MD5 checksum of the file.
	Example:	
	switch# show file bootflash:trunks2.cfg cksum	

# **Compressing and Uncompressing Files**

You can compress and uncompress files on your Cisco NX-OS device using Lempel-Ziv 1977 (LZ77) coding.

### **SUMMARY STEPS**

- **1.** (Optional) **dir** [filesystem:[//module/]directory]]
- **2. gzip** [filesystem:[//module/][directory/] | directory/]filename
- **3. gunzip** [filesystem:[//module/][directory/] | directory/]filename .gz

### **DETAILED STEPS**

### **Procedure**

	Command or Action	Purpose		
Step 1	(Optional) dir [filesystem:[//module/]directory]]  Example: switch# dir bootflash:	Displays the contents of the current directory. The file system and directory name are case sensitive.		
Step 2	<pre>gzip [filesystem:[//module/][directory/]   directory/]filename Example: switch# gzip show_tech</pre>	Compresses a file. After the file is compressed, it has a .gz suffix.		
Step 3	<pre>gunzip [filesystem:[//module/][directory/]   directory/]filename .gz Example: switch# gunzip show_tech.gz</pre>	Uncompresses a file. The file to uncompress must have the .gz suffix. After the file is uncompressed, it does not have the .gz suffix.		

# **Displaying the Last Lines in a File**

You can display the last lines of a file.

### **SUMMARY STEPS**

**1. tail** [filesystem:[//module/]][directory/]filename [lines]

# **DETAILED STEPS**

	Command or Action	Purpose		
Step 1	tail [filesystem:[//module/]][directory/]filename [lines]	Displays the last lines of a file. The default number of lines		
	Example:	is 10. The range is from 0 to 80 lines.		
	switch# tail ospf-gr.conf			

# **Redirecting show Command Output**

This example shows how to direct the output to a file on the bootflash: file system:

```
switch# show interface > bootflash:switch1-intf.cfg
```

This example shows how to direct the output to a file on external flash memory:

```
switch# show interface > slot0:switch-intf.cfg
```

This example shows how to direct the output to a file on a TFTP server:

```
switch# show interface > tftp://10.10.1.1/home/configs/switch-intf.cfg
Preparing to copy...done
```

This example shows how to direct the output of the **show tech-support** command to a file:

```
switch# show tech-support > Samplefile
Building Configuration ...
switch# dir
    1525859    Jul 04 00:51:03 2003 Samplefile
Usage for volatile://
    1527808 bytes used
    19443712 bytes free
    20971520 bytes total
```

# **Finding Files**

This example shows how to find a file in the current default directory:

```
switch# find smm_shm.cfg
/usr/bin/find: ./lost+found: Permission denied
./smm_shm.cfg
./newer-fs/isan/etc/routing-sw/smm_shm.cfg
./newer-fs/isan/etc/smm_shm.cfg
```

# **Working with Archive Files**

The Cisco NX-OS software supports archive files. You can create an archive file, append files to an existing archive file, extract files from an archive file, and list the files in an archive file.

# **Creating an Archive Files**

You can create an archive file and add files to it. You can specify the following compression types:

- bzip2
- gzip

• Uncompressed

The default is gzip.

### **SUMMARY STEPS**

1. tar create {bootflash: | volatile:} archive-filename [absolute] [bz2-compress] [gz-compress] [remove] [uncompressed] [verbose] filename-list

### **DETAILED STEPS**

### **Procedure**

	Command or Action	Purpose
Step 1	tar create {bootflash:   volatile:} archive-filename [absolute] [bz2-compress] [gz-compress] [remove] [uncompressed] [verbose] filename-list	Creates an archive file and adds files to it. The filename is alphanumeric, not case sensitive, and has a maximum length of 240 characters.
		The <b>absolute</b> keyword specifies that the leading backslash characters (\) should not be removed from the names of the files added to the archive file. By default, the leading backslash characters are removed.
		The <b>bz2-compress</b> , <b>gz-compress</b> , and <b>uncompressed</b> keywords determine the compression utility used when files are added, or later appended, to the archive and the decompression utility to use when extracting the files. If you do not specify an extension for the archive file, the defaults are as follows:
		• For <b>bz2-compress</b> , the extension is .tar.bz2.
		• For <b>gz-compress</b> , the extension is .tar.gz.
		• For <b>uncompressed</b> , the extension is .tar.
		The <b>remove</b> keyword specifies that the Cisco NX-OS software should delete the files from the file system after adding them to the archive. By default, the files are not deleted.
		The <b>verbose</b> keyword specifies that the Cisco NX-OS software should list the files as they are added to the archive. By default, the files are listed as they are added.

# **Example**

This example shows how to create a gzip compressed archive file:

 $\verb|switch| \# \texttt{tar create bootflash:} \textbf{config-archive gz-compress bootflash:} \textbf{config-file} \\$ 

# **Appending Files to an Archive File**

You can append files to an existing archive file on your Cisco NX-OS device.

# Before you begin

You have created an archive file on your Cisco NX-OS device.

### **SUMMARY STEPS**

1. tar append {bootflash: | volatile:} archive-filename [absolute] [remove] [verbose] filename-list

### **DETAILED STEPS**

### **Procedure**

	Command or Action	Purpose
Step 1	tar append {bootflash:   volatile:} archive-filename [absolute] [remove] [verbose] filename-list	Adds files to an existing archive file. The archive filename is not case sensitive.
		The <b>absolute</b> keyword specifies that the leading backslash characters (\) should not be removed from the names of the files added to the archive file. By default, the leading backslash characters are removed.
		The <b>remove</b> keyword specifies that the Cisco NX-OS software should delete the files from the filesystem after adding them to the archive. By default, the files are not deleted.
		The <b>verbose</b> keyword specifies that the Cisco NX-OS software should list the files as they are added to the archive. By default, the files are listed as they are added.

### Example

This example shows how to append a file to an existing archive file:

switch# tar append bootflash:config-archive.tar.gz bootflash:new-config

# **Extracting Files from an Archive File**

You can extract files to an existing archive file on your Cisco NX-OS device.

### Before you begin

You have created an archive file on your Cisco NX-OS device.

#### **SUMMARY STEPS**

1. tar extract {bootflash: | volatile:} archive-filename [keep-old] [screen] [to {bootflash: | volatile:} [/directory-name]] [verbose]

### **DETAILED STEPS**

### **Procedure**

	Command or Action	Purpose	
Step 1	tar extract {bootflash:   volatile:}archive-filename [keep-old] [screen] [to {bootflash:   volatile:}[/directory-name]] [verbose]	Extracts files from an existing archive file. The archive filename is not case sensitive.  The <b>keep-old</b> keyword indicates that the Cisco NX-OS software should not overwrite files with the same name the files being extracted.	
		The <b>screen</b> keyword specifies that the Cisco NX-OS software should display the contents of the extracted files to the terminal screen.	
		The <b>to</b> keyword specifies the target file system. You can include a directory name. The directory name is alphanumeric, case sensitive, and has a maximum length of 240 characters.	
		The <b>verbose</b> keyword specifies that the Cisco NX-OS software should display the names of the files as they are extracted.	

### **Example**

This example shows how to extract files from an existing archive file:

switch# tar extract bootflash:config-archive.tar.gz

# **Displaying the Filenames in an Archive File**

You can display the names of the files in an archive files using the tar list command.

tar list {bootflash: | volatile:} archive-filename

The archive filename is not case sensitive.

switch# tar list bootflash:config-archive.tar.gz
config-file
new-config

# **SSD Re-partitioning**

You can configure SSD re-partitioning to increase the configuration storage space. This also increases the size of logflash storage. This configuration takes effect after a system reload, and the additional cfg and logflash storage space may decrease the size of the bootflash.

We recommend that you perform a backup of all the software images, configurations, and personal data before performing the SSD re-partitioning.

Starting with Release 10.5(1), you can automatically detect SSD partition size on the switch to match the expected configured size. An information syslog is seen during bootup in the **show logging log** or **show logging nvram** commands to indicate the switch booted with an unexpected SSD partitioning size.

Extended partitioning scheme is not support for platforms with a 64GB SSD.

#### **SUMMARY STEPS**

#### 1. system flash sda resize

#### **DETAILED STEPS**

#### **Procedure**

	Command or Action	Purpose
Step 1	system flash sda resize	Resize persistent storage to new scheme.
	Example:	
	<pre>switch# system flash sda resize ?   <cr></cr></pre>	
	extended Cfg=1GB, logflash=39GB standard Cfg=64MB, logflash=4 8GB	

### **Example**

Following is an example for standard resize:

```
switch# system flash sda resize standard
!!!!! WARNING !!!!

Attempts will be made to preserve drive contents during
the resize operation, but risk of data loss does exist.
Backing up of bootflash, logflash, and running configuration
is recommended prior to proceeding.
!!!! WARNING !!!!
current scheme is
```

```
8:0
                  0 119.2G 0 disk
sda
           8:1
                  0 512M 0 part
|-sda1
           8:2
                      32M 0 part /mnt/plog
I-sda2
|-sda3
           8:3
                  0 128M 0 part /mnt/pss
                0 114.5G 0 part
I-sda4
           8:4
/isan/vdc 1/virtual-instance/guestshell+/rootfs/bootflash
        8:5
|-sda5
                  0
                      64M 0 part /mnt/cfg/0
                      64M 0 part /mnt/cfg/1
I-sda6
            8:6
                  0
           8:7
                      4G 0 part /logflash
`-sda7
target scheme is
           8:0
                  0
                      64G|120GB|250GB
                                        0 disk
                       512M
|-sda1
            8:1
                 0
                                        0 part
|-sda2
           8:2
                 0
                            32M
                                        0 part /mnt/plog
                 0
I-sda3
           8:3
                           128M
                                        0 part /mnt/pss
|-sda4
            8:4
                  0
                        110.5G
                                         0 part /bootflash
|-sda5
            8:5
                  0
                            64M
                                         0 part /mnt/cfg/0
                 0
           8:6
                            64M
                                        0 part /mnt/cfg/1
I-sda6
           8:7
                                         0 part /logflash
| sda7
                            8G
Continue? (y/n) [n] y
 A module reload is required for the resize operation to proceed
```

Please, do not power off the module during this process.

### Following is an example for extended resize:

switch# system flash sda resize extended

#### !!!! WARNING !!!!

Attempts will be made to preserve drive contents during the resize operation, but risk of data loss does exist. Backing up of bootflash, logflash, and running configuration is recommended prior to proceeding.

#### !!!! WARNING !!!!

current	scheme is						
sda	8:0	0	119.2G	0	disk		
-sda1	8:1	0	512M	0	part		
-sda2	8:2	0	32M	0	part	/mnt/	/plog
-sda3	8:3	0	128M	0	part	/mnt/	'pss
-sda4	8:4	0	110.5G	0	part	/boot	flash
-sda5	8:5	0	64M	0	part	/mnt/	cfg/0
-sda6	8:6	0	64M	0	part	/mnt/	cfg/1
`-sda7	8:7	0	8G	0	part	/logf	lash
target	scheme is						
sda	8:0	0	120GB 2	500	GB 0	disk	
-sda1	8:1	0	512M		0	part	
-sda2	8:2	0	32M		0	part	/mnt/plog
-sda3	8:3	0	128M		0	part	/mnt/pss

Continue? (y/n) [n] y

|-sda4

|-sda5

I-sda6

| sda7

8:4

8:5

8:6

8:7

0

0

Ω

rem

1.0G

1.0G

39G

A module reload is required for the resize operation to proceed Please, do not power off the module during this process.

0 part /bootflash

0 part /mnt/cfg/0

0 part /mnt/cfg/1

0 part /logflash

# **Examples of Using the File System**

This section includes example of using the file system on the Cisco NX-OS device.

# **Accessing Directories on Standby Supervisor Modules**

This example shows how to list the files on the standby supervisor module:

```
switch# dir bootflash://sup-remote

12198912     Aug 27 16:29:18 2003     m9500-sflek9-kickstart-mzg.1.3.0.39a.bin
1864931     Apr 29 12:41:59 2003     dplug2
12288     Apr 18 20:23:11 2003     lost+found/
12097024     Nov 21 16:34:18 2003     m9500-sflek9-kickstart-mz.1.3.1.1.bin
41574014     Nov 21 16:34:47 2003     m9500-sflek9-mz.1.3.1.1.bin

Usage for bootflash://sup-remote
67747169 bytes used
116812447 bytes free
184559616 bytes total
```

This example shows how to delete a file on the standby supervisor module:

```
switch# delete bootflash://sup-remote/aOldConfig.txt
```

# **Moving Files**

You can move a file from one directory to another directory.



Caution

If a file with the same name already exists in the destination directory, that file is overwritten by the moved file.

You can use the **move** command to rename a file by moving the file within the same directory.

### **SUMMARY STEPS**

- 1. (Optional) pwd
- **2.** (Optional) **dir** [filesystem:[//module/][directory]]
- **3.** move [filesystem:[//module/][directory /] | directory/]source-filename {{filesystem:[//module/][directory /] | directory/}[target-filename] | target-filename}

#### **Procedure**

	Command or Action	Purpose
Step 1	(Optional) <b>pwd</b>	Displays the name of your current default directory.
	Example: switch# pwd	
Step 2	(Optional) dir [filesystem:[//module/][directory]]  Example: switch# dir bootflash	Displays the contents of the current directory. The file system and directory name are case sensitive.
Step 3	<pre>move [filesystem:[//module/][directory /]   directory/]source-filename {{filesystem:[//module/][directory /]   directory/}[target-filename]   target-filename}  Example: switch# move test old_tests/test1</pre>	Moves a file.  The file system, module, and directory names are case sensitive.  The <i>target-filename</i> argument is alphanumeric, case sensitive, and has a maximum of 64 characters. If the <i>target-filename</i> argument is not specified, the filename defaults to the <i>source-filename</i> argument value.

# **Copying Files**

This example shows how to copy the file called samplefile from the root directory of the slot0: file system to the mystorage directory:

switch# copy slot0:samplefile slot0:mystorage/samplefile

This example shows how to copy a file from the current directory level:

switch# copy samplefile mystorage/samplefile

This example shows how to copy a file from the active supervisor module bootflash to the standby supervisor module bootflash:

switch# copy bootflash:system\_image bootflash://sup-2/system\_image

You can also use the **copy** command to upload and download files from the slot0: or bootflash: file system to or from a FTP, TFTP, SFTP, or SCP server.

# **Deleting a Directory**

You can remove directories from the file systems on your device.

### Before you begin

Ensure that the directory is empty before you try to delete it.

#### **SUMMARY STEPS**

- 1. (Optional) pwd
- **2.** (Optional) **dir** [filesystem:[//module/][directory]]
- **3. rmdir** [filesystem :[//module/]]directory

### **DETAILED STEPS**

### **Procedure**

	Command or Action	Purpose			
Step 1	(Optional) <b>pwd</b>	Displays the name of your current default directory.			
	Example: switch# pwd				
Step 2	(Optional) dir [filesystem:[//module/][directory]]  Example: switch# dir bootflash:test	Displays the contents of the current directory. The file system, module, and directory names are case sensitive.  If the directory is not empty, you must delete all the files before you can delete the directory.			
Step 3	<pre>rmdir [filesystem :[//module/]]directory Example: switch# rmdir test</pre>	Deletes a directory. The file system and directory name are case sensitive.			

# **Displaying File Contents**

This example shows how to display the contents of a file on an external flash device:

```
switch# show file slot0:test
configure terminal
interface ethernet 1/1
no shutdown
end
show interface ethernet 1/1
```

This example shows how to display the contents of a file that resides in the current directory:

```
switch# show file myfile
```

# **Displaying File Checksums**

This example shows how to display the checksum of a file:

```
switch# show file bootflash:trunks2.cfg cksum
583547619
```

This example shows how to display the MD5 checksum of a file:

```
switch# show file bootflash:trunks2.cfg md5sum
3b94707198aabefcf46459de10c9281c
```

# **Compressing and Uncompressing Files**

This example shows how to compress a file:

```
switch# dir
    1525859     Jul 04 00:51:03 2003 Samplefile
...
switch# gzip volatile:Samplefile
switch# dir
    266069     Jul 04 00:51:03 2003 Samplefile.gz
...
```

This example shows how to uncompress a compressed file:

```
switch# dir
     266069     Jul 04 00:51:03 2003 Samplefile.gz
...
switch# gunzip samplefile
switch# dir
     1525859     Jul 04 00:51:03 2003 Samplefile
...
```

# **Redirecting show Command Output**

This example shows how to direct the output to a file on the bootflash: file system:

```
switch# show interface > bootflash:switch1-intf.cfg
```

This example shows how to direct the output to a file on external flash memory:

```
switch# show interface > slot0:switch-intf.cfg
```

This example shows how to direct the output to a file on a TFTP server:

```
switch# show interface > tftp://10.10.1.1/home/configs/switch-intf.cfg
Preparing to copy...done
```

This example shows how to direct the output of the **show tech-support** command to a file:

```
switch# show tech-support > Samplefile
Building Configuration ...
switch# dir
    1525859    Jul 04 00:51:03 2003 Samplefile
Usage for volatile://
    1527808 bytes used
    19443712 bytes free
```

20971520 bytes total

# **Finding Files**

This example shows how to find a file in the current default directory:

```
switch# find smm_shm.cfg
/usr/bin/find: ./lost+found: Permission denied
./smm_shm.cfg
./newer-fs/isan/etc/routing-sw/smm_shm.cfg
./newer-fs/isan/etc/smm_shm.cfg
```

# **Default Settings for File System Parameters**

This table lists the default settings for the file system parameters.

Table 2: Default File System Settings

Parameters	Default
Default filesystem	bootflash:

# **Additional References for File Systems**

This section includes additional information related to the file systems.