

Managing Configuration Files

This chapter describes how to initially configure switches using the configuration files so they can be accessed by other devices. This chapter includes the following sections:

• About Flash Devices, page 16-1

Formatting Flash Devices and File Systems, page 16-2

Using the File System, page 16-2

Downloading Configuration Files to the Switch, page 16-7

About Flash Devices

Every switch in the Cisco MDS 9000 Family contains one internal bootflash (see Figure 16-1). The Cisco MDS 9500 Series additionally contains one external CompactFlash called slot0 (see Figure 16-1 and Figure 16-2).

Figure 16-1 Flash Devices in the Cisco MDS 9000 Supervisor Module





Figure 16-2 External CompactFlash in the Cisco MDS 9000 Supervisor Module

Internal bootflash:

or switching module. You have access to two locations within the internal bootflash: file system.

- The volatile: file system provides temporary storage, and it is also the default location for file system commands. Files in temporary storage (volatile:) are erased when the switch reboots.
- The bootflash: (nonvolatile storage) file system provides permanent storage. The files in bootflash: are preserved through reboots and power outages.

Formatting Flash Devices and File Systems

By formatting a Flash devices or a file system, you are clearing out the contents of the device or the file system and restoring it to its factory-shipped state.

See the "About Flash Devices" section on page 16-1 and the "Using the File System" section on page 16-2.

Using the File System

All switches in the Cisco MDS 9000 Family have one internal bootflash: that resides in the supervisor or switching module. You have access to two directories within the internal bootflash: file system.

- The volatile: directory provides temporary storage, and it is also the default. Files in temporary storage (volatile:) are erased when the switch reboots.
- The bootflash: (nonvolatile storage) directory provides permanent storage. Files in permanent storage (bootflash:) are preserved through reboots and power outages.

Cisco MDS 9500 Series directors contain an additional external CompactFlash referred to as the slot0: directory. The external CompactFlash, an optional device for MDS 9500 Series directors, can be used for storing software images, logs, and core dumps.

You can use Device Manager to perform the following functions to help you manage software image files and configuration files:

• Flash Files, page 16-3

Creating a Directory, page 16-3

Deleting an Existing File or Directory, page 16-4

• Performing Other File Manipulation Tasks, page 16-7

Flash Files

Step 1

Admin > Flash File

By default, you see the bootflash directory listed for the supervisor's local partition (see Figure 16-3).

Figure 16-3 Flash Files Dialog Box

- 172.22.31.10	36 - Flas	h Files 🛛 🔀			
Name	Size	Modified			
bootflash		Feb 23 08:56:20 2006			
aaa_cnv.log	243	Aug 10 04:13:20 2005			
cboot-3-0-0-310	14.651M	Dec 20 06:32:10 2005			
cboot-3-0-0-346	14.659M	Feb 14 00:06:53 2006			
cert_init_debugs:	1.345K	Feb 14 00:12:54 2006			
cisan-3-0-0-310	63.737M	Dec 20 06:31:47 2005			
cisan-3-0-0-346	63.690M	Feb 14 00:06:38 2006			
ips_cnvt.log	291	Aug 10 04:13:20 2005			
	12.288K	Jan 03 03:50:31 1980			
newer-fs	1.024K	Aug 10 04:55:32 2005			
radius_cnv.log	252	Aug 10 04:13:20 2005			
security_cnv.log	290	May 10 18:18:04 2004			
tacacs_cnv.log	252	Aug 10 04:13:20 2005			
Copy Delete Refresh Close					
12 Entries (Used: 171.125M, Free: 13.435M)					

Step 2

Creating a Directory

Step 1

Γ

172.22.31.10			
Device: bootfla 💌	Partition: su	p-lo 🚩 📇	
Name	Size 🛛 🕅	lodified	1
bootflash		Feb 23 08:56:20 200	6
aaa_cnv.log	243	Aug 10 04:13:20 200	5
cboot-3-0-0-310	14.651M	Dec 20 06:32:10 200	5
cboot-3-0-0-346	14.659M	Feb 14 00:06:53 200	6
cert_init_debugs:	1.345K	Feb 14 00:12:54 200	6
cisan-3-0-0-310	63.737M	Dec 20 06:31:47 200	5
cisan-3-0-0-346	63.690M	Feb 14 00:06:38 200	6
ips_cnvt.log	291	Aug 10 04:13:20 200	5
🗄 lost+found	12.288K	Jan 03 03:50:31 198	0
🗄 newer-fs	1.024K	Aug 10 04:55:32 200	5
radius_cnv.log	252	Aug 10 04:13:20 200	5
security_cnv.log	290	May 10 18:18:04 200	4
tacacs_cnv.log	252	Aug 10 04:13:20 200	5
Copy)elete	Refresh Close	٦

Figure 16-4 Flash Files Dialog Box

Step 3 Create Directory

You see the Create New Directory dialog box as shown in Figure 16-5.

Figure 16-5 New Directory Dialog Bo	Figure 16-5	New Directory Dialog Box
-------------------------------------	-------------	--------------------------

	Input ?	Enter the name of the new directory OK Cancel	154168			
Step 4				ОК		
	<u>}</u> Tip				 	

Deleting an Existing File or Directory

Step 1

Name	Size	Modified			
bootflash		Feb	23 08:	56:20	2006
aaa_cnv.log	243	Aug	10 04:	13:20	2005
cboot-3-0-0-310	14.651M	Dec	20 06:	32:10	2005
cboot-3-0-0-346	14.659M	Feb	14 00:	06:53	2006
cert_init_debugs:	1.345K	Feb	14 00:	12:54	2006
cisan-3-0-0-310	63.737M	Dec	20 06:	31:47	2005
cisan-3-0-0-346	63.690M	Feb	14 00:	06:38	2006
ips_cnvt.log	291	Aug	10 04:	13:20	2005
🗄 lost+found	12.288K	Jan	03 03:	50:31	1980
🗄 newer-fs	1.024K	Aug	10 04:	55:32	2005
radius_cnv.log	252	Aug	10 04:	13:20	2005
security_cnv.log	290	May	10 18:	18:04	2004
tacacs_cnv.log	252	Aug	10.04:	13:20	2005

Step 2

Step 3 Step 4

<u>/</u> Caution

If you specify a directory, the delete removes the entire directory and all of its contents.

Copying Files

Step 1

	36 - Flash	Files 🔀
Device: bootfla 💌	Partition: s	up-lo 💌 📸
Name	Size	Modified
bootflash		Feb 23 08:56:20 2006
aaa_cnv.log	243	Aug 10 04:13:20 2005
cboot-3-0-0-310	14.651M	Dec 20 06:32:10 2005
cboot-3-0-0-346	14.659M	Feb 14 00:06:53 2006
cert_init_debugs:	1.345K	Feb 14 00:12:54 2006
cisan-3-0-0-310	63.737M	Dec 20 06:31:47 2005
cisan-3-0-0-346	63.690M	Feb 14 00:06:38 2006
ips_cnvt.log	291	Aug 10 04:13:20 2005
	12.288K	Jan 03 03:50:31 1980
🗄 newer-fs	1.024K	Aug 10 04:55:32 2005
radius_cnv.log	252	Aug 10 04:13:20 2005
security_cnv.log	290	May 10 18:18:04 2004
tacacs_cnv.log	252	Aug 10 04:13:20 2005
Copy	Delete	Refresh Close
12 Entries (Lised: 171	125M Free	13.435M)
rz enines (Useu, TrT.	.120m,1166	. 10.400mj

Figure 16-7	Flash Files Dialog B	ОХ
-------------	----------------------	----

Copy.

Figure 16-8.



c-186 - Copy Files			×	
Protocol:	⊙ tftp ◯ ftp ◯ scp (🔾 sftp 🔵 flashToFlash		
ServerAddress:	171.71.55.12]		
RemoteUserName:				
RemotePassword:				
Server Source File:				
Switch Destination File:	bootflash://sup-local	[device:][//partition][path	1	
			tftn ftn sen	flach'
			the he sep	masn

file

Where *device* is a value obtained from FlashDeviceName, *partition* is a value obtained from FlashPartitionName and *file* is the name of a file in flash.

Step 7

Note

[device>:][<partition

Step 8

ſ

Performing Other File Manipulation Tasks

To perform the following CLI-specific tasks, refer to the Cisco MDS 9000 Family CLI Configuration Guide

Working with Configuration Files

- •
- •
- •

Downloading Configuration Files to the Switch

Saving the Configuration

Step 1

Admin > Save Configuration

Really save running to startup configuration? Yes No

Saving the Running Configuration

configuration in NVRAM.

To save the configuration file using Device Manager, follow these steps:

Click

You see the Copy Configuration dialog box shown in Figure 16-9.

Copy Configuration Dialog Box

c-186 - Copy Co	onfiguration 🛛 🔀
From:	🔿 serverFile 💿 startupConfia 🔿 runninaConfia
To:	serverFile O runningConfig fabricStartupConfig
-xFTP	
ServerAddress:	171.71.55.12
FileName:	je\.cisco_mds9000\c-186_cfg.txt
Protocol:	⊙tftp ◯ftp ◯sftp
UserName:	admin
UserPassword:	*****
	Apply Help Close

fabricStartupConfig



Backing Up the Current Configuration

Step 1

c-186 - Copy Co	onfiguration
From:	🔿 serverFile 💿 startupConfig 🔘 runningConfig
To:	💿 serverFile 🔾 runningConfig 🔘 fabricStartupConfig
-xFTP	
ServerAddress:	171.71.55.12
FileName:	je\.cisco_mds9000\c-186_cfg.txt
Protocol:	⊙tftp ◯ftp ◯sftp
UserName:	admin
UserPassword:	*****
	Apply Help Close

Step 2

Step 3

Step 4

Step 5

Step 6

Step 7

Γ



Step 8