



Finding Feature Information

Last Updated: NaN, yyyy

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.

© yyyy-2013 Cisco Systems, Inc. All rights reserved.



Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA



Image Copying from Flash Memory to an FTP Server

Last Updated: NaN, yyyy

The FTP protocol requires a client to send a remote username and password on each FTP request to a server. When you copy a configuration file from the router to a server using FTP, the Cisco IOS software sends the first valid username it encounters in the following list:

- 1 The username specified in the **copy** privileged EXEC command, if a username is specified.
- 2 The username set by the **ipftpusername** global configuration command, if the command is configured.
- 3 Anonymous.

The router sends the first valid password it encounters in the following list:

- 1 The password specified in the **copy** privileged EXEC command, if a password is specified.
- 2 The password set by the **ipftppassword** global configuration command, if the command is configured.

The router forms a password *username @routename .domain* . The variable *username* is the username associated with the current session, *routename* is the configured hostname, and *domain* is the domain of the router.

The username and password must be associated with an account on the FTP server. If you are writing to the server, the FTP server must be properly configured to accept the FTP write request from the user on the router.

If the server has a directory structure, the configuration file or image is written to or copied from the directory associated with the username on the server. For example, if the system image resides in the home directory of a user on the server, specify that user's name as the remote username.

Refer to the documentation for your FTP server for more information.

Use the **ipftpusername** and **ipftppassword** commands to specify a username and password for all copies. Include the username in the **copy** command if you want to specify a username for that copy operation only.

© yyyy-2013 Cisco Systems, Inc. All rights reserved.



Image Copy from an FTP Server to a Flash Memory File System

Last Updated: NaN, yyyy

You can copy a system image from an FTP server to a flash memory file system.

- [FTP Username and Password, page 3](#)

FTP Username and Password

The FTP protocol requires a client to send a remote username and password on each FTP request to a server. When you copy a configuration file from the router to a server using FTP, the Cisco IOS software sends the first valid username it encounters in the following list:

- 1 The username specified in the **copy** privileged EXEC command, if a username is specified.
- 2 The username set by the **ipftpusername** global configuration command, if the command is configured.
- 3 Anonymous.

The router sends the first valid password it encounters in the following list:

- 1 The password specified in the **copy** privileged EXEC command, if a password is specified.
- 2 The password set by the **ipftppassword** command, if the command is configured.

The router forms a password *username @routename .domain* . The variable *username* is the username associated with the current session, *routename* is the configured host name, and *domain* is the domain of the router.

The username and password must be associated with an account on the FTP server. If you are writing to the server, the FTP server must be properly configured to accept the FTP write request from the user on the router.

If the server has a directory structure, the configuration file or image is written to or copied from the directory associated with the username on the server. For example, if the system image resides in the home directory of a user on the server, specify that user's name as the remote username.

Refer to the documentation for your FTP server for more information.

Use the **ipftpusername** and **ipftppassword** commands to specify a username and password for all copies. Include the username in the **copy** command if you want to specify a username for that copy operation only.



Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

© yyyy-2013 Cisco Systems, Inc. All rights reserved.



Copying an Image from Flash Memory to an FTP Server

Last Updated: NaN, yyyy

To copy a system image to an FTP network server, complete the tasks in this section:

SUMMARY STEPS

1. **enable**
2. **configure terminal**
3. **ip ftp username** *username*
4. **ip ftp password** *password*
5. **end**
6. **show flash-filesystem :**
7. **copy flash-filesystem : filename ftp:** [[[//[username [:password]@]location]/directory]/filename]

DETAILED STEPS

Command or Action	Purpose
Step 1 enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none">• Enter your password if prompted.
Step 2 configure terminal Example: Router# configure terminal	(Optional) Enters global configuration mode. This step is required only if you override the default remote username or password (see Steps 2 and 3).



Command or Action	Purpose
Step 3 <code>ip ftp username <i>username</i></code> Example: <pre>Router(config)# ip ftp username user1</pre>	(Optional) Changes the default remote username.
Step 4 <code>ip ftp password <i>password</i></code> Example: <pre>Router(config)# ip ftp password guessme</pre>	(Optional) Changes the default password.
Step 5 <code>end</code> Example: <pre>Router(config)# end</pre>	(Optional) Exits global configuration mode. This step is required only if you override the default remote username or password (see Steps 2 and 3).
Step 6 <code>show flash-filesystem :</code> Example: <pre>Router# show flash:</pre>	(Optional) Displays the system image file in the specified flash directory. If you do not already know it, note the exact spelling of the system image filename in flash memory.
Step 7 <code>copy flash-filesystem : filename ftp: [[//[username[:password]@]location]/directory]/filename]</code> Example: <pre>Router# copy slot0:1:your-ios ftp://myuser:mypass@172.23.1.129/dirt/sysadmin/your-ios</pre>	Copies the image to the FTP server. Note After you have issued the copy privileged EXEC command, you may be prompted for additional information or for confirmation of the action. The prompting will depend on how much information you provide in the copy command and the current setting of the fileprompt global configuration command.

- [Examples, page 6](#)

Examples

The following example uses the **showslot1:privilegedEXEC** command to display the name of the system image file in the second PCMCIA slot, and copies the file (test) to an FTP server:

```
Router# show slot1:
-#- ED --type-- --crc--- -seek-- nlen -length- -----date/time----- name
1  .. 1          46A11866 2036C   4    746      May 16 1995 16:24:37 test
Router# copy slot1:test ftp://thisuser:thatpass@172.16.13.110/test
writing test!!!!...
successful ftp write.
```

In this example, the file named `your-ios` is copied from partition 1 of the flash memory PC card in slot 0 to the TFTP server at 172.23.1.129. The file will be saved with the name `your-ios` in the `dir/``sysadmin` directory relative to the directory of the remote username.

```
Router# show slot0: partition 1
PCMCIA Slot0 flash directory, partition 1:
File Length Name/status
  1 1711088 your-ios
[1711152 bytes used, 2483152 available, 4194304 total]
Router# copy slot0:1:your-ios ftp://myuser:mypass@172.23.1.129/dir/sysadmin/your-ios
Verifying checksum for 'your-ios' (file # 1)... OK
Copy 'your-ios' from Flash to server
  as 'dir/sysadmin/ios-2'? [yes/no] yes
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
Upload to server done
Flash device copy took 00:00:23 [hh:mm:ss]
```

© yyyy-2013 Cisco Systems, Inc. All rights reserved.



Copying from an FTP Server to Flash Memory

Last Updated: NaN, yyyy

To copy a system image from an FTP server to a flash memory file system, complete the tasks in this section:

SUMMARY STEPS

1. **enable**
2. **show flash-filesystem :**
3. **copy flash-url tftp :[[[//location]/directory]/filename]**
4. **configure terminal**
5. **ip ftp username *username***
6. **ip ftp password *password***
7. **end**
8. **copy ftp: [[[/[username [:password]@]location] /directory]/filename]flash-filesystem:[filename]**

DETAILED STEPS

Command or Action	Purpose
Step 1 enable Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"> • Enter your password if prompted.

Command or Action	Purpose
<p>Step 2 <code>show flash-filesystem :</code></p> <p>Example:</p> <pre>Router# show flash:</pre>	<p>(Optional) Displays the system image filename in Flash memory. Use this command to verify the url-path of the file and the exact spelling of the system image filename for use in the next command.</p>
<p>Step 3 <code>copy flash-url tftp :[[[//location]/directory]/filename]</code></p> <p>Example:</p> <pre>Router# copy slot0:1:your-ios tftp://172.23.1.129/dirt/sysadmin/your-ios</pre>	<p>Copies the system image from Flash memory to a TFTP server. Specify the file location and filename as the <i>flash-url</i> argument.</p> <p>Note After you have issued the copy privileged EXEC command, you may be prompted for additional information or for confirmation of the action. The prompting will depend on how much information you provide in the copy command and the current setting of the fileprompt global configuration command.</p>
<p>Step 4 <code>configure terminal</code></p> <p>Example:</p> <pre>Router# configure terminal</pre>	<p>(Optional) Enters global configuration mode from the terminal. This step is required only if you want to override the default remote username or password (see Steps 3 and 4).</p>
<p>Step 5 <code>ip ftp username <i>username</i></code></p> <p>Example:</p> <pre>Router(config)# ip ftp username netuser1</pre>	<p>(Optional) Changes the default remote username.</p>
<p>Step 6 <code>ip ftp password <i>password</i></code></p> <p>Example:</p> <pre>Router(config)# ip ftp password guessme</pre>	<p>(Optional) Changes the default password.</p>
<p>Step 7 <code>end</code></p> <p>Example:</p> <pre>Router(config)# end</pre>	<p>(Optional) Exits global configuration mode. This step is required only if you override the default remote username or password (see Steps 3 and 4).</p>

Command or Action	Purpose
<p>Step 8 copy ftp: [[[/[<i>username</i> [:<i>password</i>]@]<i>location</i>] / <i>directory</i>]/<i>filename</i>]<i>flash-filessystem</i>:<i>filename</i>]</p> <p>Example:</p> <pre>Router# copy ftp://myuser:mypass@theserver/ tftpboot/sub3/c7200-js-mz slot1:c7200-js-mz</pre>	<p>Copies the configuration file from a network server to running memory or the startup configuration using rep.</p> <p>Note After you have issued the copy privileged EXEC command, you may be prompted for additional information or for confirmation of the action. The prompting will depend on how much information you provide in the copy command and the current setting of the fileprompt global configuration command.</p>

- [Examples, page 10](#)

Examples

The following example copies a the file named c7200-js-mz from the FTP server the server using a username of myuser and a password of mypass:

```
Router# copy ftp://myuser:mypass@theserver/tftpboot/sub3/c7200-js-mz slot1:c7200-js-mz
Accessing ftp://theserver/tftpboot/sub3/c7200-js-mz...Translating "theserver"...domain
server (192.168.2.132) [OK]

Loading c7200-js-mz from 192.168.2.132 (via
Ethernet3/0): !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
[OK - 4823492 bytes]

4823492 bytes copied in 264.312 secs (18270 bytes/sec)
```

© yyyy-2013 Cisco Systems, Inc. All rights reserved.