

Configuring File Upload and File Download

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File Upload Overview

File uploading refers to uploading files in DUT flash to external file servers, such as host files, configuration files, SSH key files, and log files in the upgrade file for analysis, backup, or migration to other compatible devices.

It is recommended that the uploaded file name is the same suffix as the file download:

File Type	Suffix
Host File	.arj
Bootrom file	.bin
Configuration file	.txt
SSH key file	.txt

The following upload tools are supported: tftp and ftp.

File Download Overview

File download is to download files from the external to the DUT's flash, such as the upgrade files (host file, bootrom file), the configuration file, and the SSH key file.

The suffix of the files must be the following:

File Type	Suffix
Host File	.arj
Bootrom file	.bin

File Type	Suffix
Configuration file	.txt
SSH key file	.txt

The following download tools are supported: xmodem, tftp, and ftp.

When using the xmodem tool, after entering the command, select **Send** -> **Send File** in the **HyperTerminal** menu. In the **Send File** dialog box, enter the full path and file name of the file in the **File Name** field. Select **Xmodem** from the **Protocol** drop-down list, and then click **Send**.

When an external file is downloaded to the DUT, it is saved in the flash memory and does not take effect immediately. You must use the related configuration commands. After upgrading the host and bootrom, restart the DUT. When you download the configuration file, it will overwrite the original configuration file in flash. You must use the downloaded configuration file in the privileged EXEC mode with the **copy startup-config running-config**.

Refer to the SSH module user manual for key usage.

How to Configure File Upload and File Download

Configuring File Upload

To upload a file, perform the following steps:

SUMMARY STEPS

- 1. enable
- **2.** Use either ftp: or tftp: to upload a file:
 - upload application ftp { inet | inet6 } ftp-server-ip-address file-name ftp-username ftp-password
 - upload application tftp { inet | inet6 } tftp-server-ip-address file-name
- **3.** Use either ftp: or tftp: to upload a file:
 - upload logging ftp { inet | inet6 } ftp-server-ip-address file-name ftp-username ftp-password
 upload logging ftp { inet | inet6 } ftp-server-ip-address file-name
- 4. copy running-config startup-config
- 5. Use either ftp: or tftp: to upload a file:
 - upload configuration ftp { inet | inet6 } ftp-server-ip-address file-name ftp-username ftp-password
 - upload configuration tftp { inet | inet6 } tftp-server-ip-address file-name
- **6.** Use either ftp: or tftp: to upload a file:
 - **upload automatically configuration ftp** { **inet** | **inet6** } *ftp-server-ip-address file-name ftp-username ftp-password* **per hours** *hours* **minutes** *minutes*
 - upload automatically configuration tftp { inet | inet6 } tftp-server-ip-address file-name per hours hours minutes
- 7. Use either ftp: or tftp: to upload a file:

upload keyfile { private | public }ftp{ inet | inet6 }ftp-server-ip-address file-name ftp-username ftp-password
upload keyfile { private | public }tftp{ inet | inet6 }tftp-server-ip-address file-name

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.
	Example:	Enter your password, if prompted.
	Device> enable	
Step 2	Use either ftp: or tftp: to upload a file:	Uploads the host file.
	 upload application ftp { inet inet6 } ftp-server-ip-address file-name ftp-username ftp-password upload application tftp { inet inet6 } tftp-server-ip-address file-name 	
	Example:	
	Device# upload application tftp inet 10.23.13.1 host.arj	
Step 3	Use either ftp: or tftp: to upload a file:	Uploads the log file.
	 upload logging ftp { inet inet6 }ftp-server-ip-address file-name ftp-username ftp-password upload logging tftp { inet inet6 }tftp-server-ip-address file-name 	
	Example:	
	Device# upload logging tftp inet 10.23.13.1 log.ar	j
Step 4	copy running-config startup-config	Saves the current configuration to flash.
	Example:	
	Device# copy running-config startup-config	
Step 5	Use either ftp: or tftp: to upload a file:	Uploads the configuration file.
	 upload configuration ftp { inet inet6 }ftp-server-ip-address file-name ftp-username ftp-password upload configuration tftp { inet inet6 }tftp-server-ip-address file-name Example: 	
	Device# upload configuration tftp inet 10.23.13.1 config.txt	1

	Command or Action	Purpose
Step 6	Use either ftp: or tftp: to upload a file:	Automatically uploads the configuration file.
	 upload automatically configuration ftp { inet inet6 } ftp-server-ip-address file-name ftp-username ftp-password per hours hours minutes minutes upload automatically configuration tftp { inet inet6 } tftp-server-ip-address file-name per hours hours minutes minutes 	
	Example:	
	Device# upload automatically configuration tftp inet 10.23.13.1 config2.txt per hours 20 minutes 30	
Step 7	Use either ftp: or tftp: to upload a file: • upload keyfile { private public }ftp{ inet inet6 }ftp-server-ip-address file-name ftp-username ftp-password • upload keyfile { private public }tftp{ inet inet6 }tftp-server-ip-address file-name	Uploads the SSH key file.
	Example: Device# upload keyfile public tftp inet 10.23.13.1 ssh.txt	

Configuring File Download

To download a file, perform the following steps:

SUMMARY STEPS

- 1. enable
- 2. Use either ftp:, tftp:, or xmodem: to download a file:
 - load application ftp { inet | inet6 } ftp-server-ip-address file-name ftp-username ftp-password
 - load application tftp { inet | inet6 } tftp-server-ip-address file-name
 - load application xmodem
- **3.** Use either ftp:, tftp:, or xmodem: to download a file:
 - load whole-bootrom ftp { inet | inet6 } ftp-server-ip-address file-name ftp-username ftp-password
 - load whole-bootrom tftp { inet | inet6 } tftp-server-ip-address file-name
 - load whole-bootrom xmodem
- 4. Use either ftp: or tftp: to download a file:
 - load ont-image ftp { inet | inet6 } ftp-server-ip-address file-name ftp-username ftp-password
 load ont-image ftp { inet | inet6 } ftp-server-ip-address file-name
- **5.** load epld ftp { inet | inet6 } *ftp-server-ip-address file-name ftp-username ftp-password*
- 6. Use either ftp:, tftp:, or xmodem: to download a file:

- load configuration ftp { inet | inet6 } ftp-server-ip-address file-name ftp-username ftp-password
- load configuration tftp { inet | inet6 } tftp-server-ip-address file-name
- load configuration xmodem
- 7. Use either ftp: or tftp: to download a file:
 - load keyfile { private | public } ftp { inet | inet6 } ftp-server-ip-address file-name ftp-username ftp-password
 - load keyfile { private | public } tftp{ inet | inet6 } tftp-server-ip-address file-name

DETAILED STEPS

	Command or Action	Purpose
Step 1	enable	Enables privileged EXEC mode.
	Example:	Enter your password, if prompted.
	Device> enable	
Step 2	Use either ftp:, tftp:, or xmodem: to download a file:	Upgrades the host file.
	• load application ftp { inet inet6 }ftp-server-ip-address file-name ftp-username ftp-password	
	 load application tftp { inet inet6 } tftp-server-ip-address file-name load application xmodem 	
	Example:	
	Device# load application tftp inet 10.23.13.1 host.arj	
Step 3	Use either ftp:, tftp:, or xmodem: to download a file:	Upgrades the bootrom file.
	• load whole-bootrom ftp { inet inet6 }ftp-server-ip-address file-name ftp-username ftp-password	
	• load whole-bootrom tftp { inet inet6 } tftp-server-ip-address file-name	
	 load whole-bootrom xmodem 	
	Example:	
	Device# load whole-bootrom tftp inet 10.23.13.1 bootrom1.bin	
Step 4	Use either ftp: or tftp: to download a file:	Upgrades the ont-image file.
	 load ont-image ftp { inet inet6 }ftp-server-ip-address file-name ftp-username ftp-password load ont-image fftp { inet inet6 	
	} tftp-server-ip-address file-name	
	Example:	
	•	•

	Command or Action	Purpose
	Device# load ont-image tftp inet 10.23.13.1 ont1.image	
Step 5	load epld ftp { inet inet6 } <i>ftp-server-ip-address</i> <i>file-name ftp-username ftp-password</i>	Upgrades the epld file.
	Example: Device# load epld tftp inet 10.23.13.1 epld1.epld	
Step 6	Use either ftp:, tftp:, or xmodem: to download a file:	Downloads the configuration file.
	• load configuration ftp { inet inet6 }ftp-server-ip-address file-name ftp-username ftp-password	
	• load configuration tftp { inet inet6 } tftp-server-ip-address file-name	
	load configuration xmodem	
	Example:	
	Device# load configuration tftp inet 10.23.13.1 config.txt	
Step 7	Use either ftp: or tftp: to download a file:	Downloads the SSH key file.
	• load keyfile { private public } ftp { inet inet6 } ftp-server-ip-address file-name ftp-username ftp-password	
	<pre>• load keyfile { private public }tftp{ inet inet6 }tftp-server-ip-address file-name</pre>	
	Example:	
	Device# load keyfile public tftp inet 10.23.13.1 ssh.txt	

Configuration Examples for File Upload and File Download

Configuration Example for File Upload

The following example shows how to upload the host file and the configuration file:

```
Device# upload application tftp 192.168.1.99 host.arj
Uploading APP file via TFTP...
Upload APP file via TFTP successfully.
```

Device# upload configuration tftp 192.168.1.99 text.txt Uploading config file via TFTP... Upload config file via TFTP successfully.

Configuration Example for File Download

The following example shows how to download the host file and the bootrom file:

Device# load application tftp 192.168.1.99 host.arj Downloading application via TFTP... Download application via TFTP successfully.

Device# load whole-bootrom tftp 192.168.1.99 bootrom_rom.bin