

# Download or Backup Configuration File on an Sx200, Sx300, or Sx500 Switch

## Objective

The Backup Configuration File or log of the switch is useful for troubleshooting or if the device accidentally gets reset. This contains manual copies of files used for protection against system shutdown or for the maintenance of a specific operating state. For instance, you can copy and save the Mirror Configuration, Startup Configuration, or Running Configuration to a Backup file. You can use this file to update or restore the switch back to its functional state.

The Backup Configuration File can be saved on a Trivial File Transfer Protocol (TFTP) server, a Secure Copy (SCP) server, or on your computer. This article will guide you on how to download or back up a system configuration file through any of the following methods:

- [Via TFTP](#) — The TFTP method is chosen to download/backup configuration file via TFTP. TFTP is mainly used to boot up computers in LAN, and is also suitable to download files.
- [Via HTTP/HTTPS](#) — The Hyper Text Transfer Protocol (HTTP) or Hyper Text Transfer Protocol Secure (HTTPS) method is chosen to download/backup configuration file via HTTP/HTTPS. This method is more popular for file downloads as it is more secure.
- [Via SCP \(Over SSH\)](#) — The SCP (Over SSH) method is chosen to download/backup configuration file via Secure Shell (SSH). This download/backup of configuration files are done over a secure network.

## Applicable Devices

- Sx200 Series
- Sx300 Series
- Sx500 Series

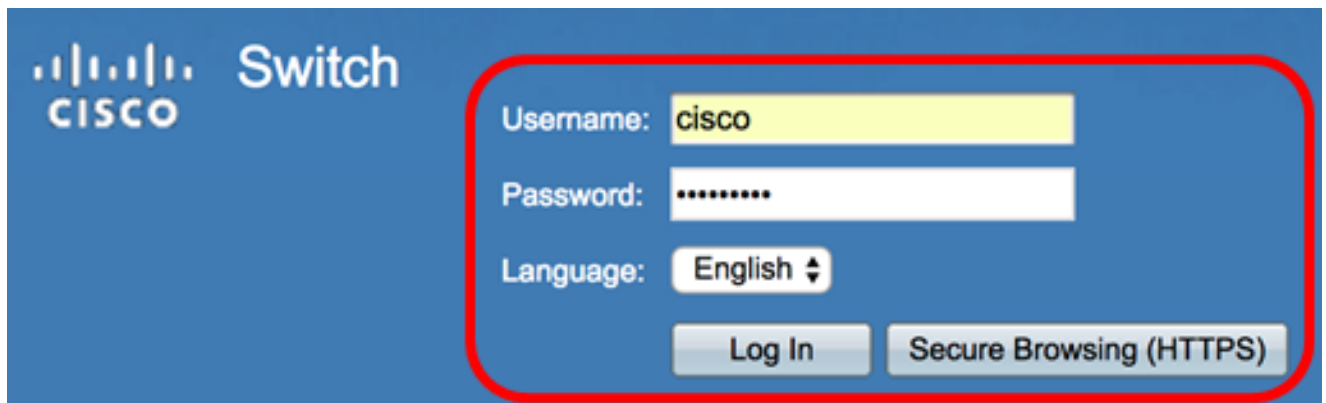
## Software Version

- 1.4.7.6

## Download or Backup Configuration File

Step 1. Log in to the web-based utility of your switch. The default username and password is cisco/cisco.

**Note:** If you already have changed the password or created a new account, enter your new credentials instead.

The image shows the Cisco Switch login page. On the left, there is the Cisco logo and the word "Switch". On the right, there is a login form with three input fields: "Username:" with the value "cisco", "Password:" with masked characters "\*\*\*\*\*", and "Language:" with a dropdown menu set to "English". Below these fields are two buttons: "Log In" and "Secure Browsing (HTTPS)". The entire login form area is enclosed in a red rounded rectangle.

Step 2. Choose one from the following download or backup methods:

- [Via TFTP](#)
- [Via HTTP/HTTPS](#)
- [Via SCP \(Over SSH\)](#)

## **Download or Backup a System Configuration File via TFTP**

**Note:** The available menu options may vary depending on the device model. In this example, SG300-28 switch is used.

Step 1. Choose **Administration >File Management > Download/Backup Configuration/Log.**

## Administration

System Settings

Console Settings

▶ Management Interface

User Accounts

Idle Session Timeout

▶ Time Settings

▶ System Log

## File Management

Upgrade/Backup Firmware/Language

Active Image

Download/Backup Configuration/Log

Configuration Files Properties

Copy/Save Configuration

DHCP Auto Configuration/Image Update

Reboot

▶ Diagnostics

Discovery - Bonjour

▶ Discovery - LLDP

▶ Discovery - CDP

Ping

Traceroute

Step 2. In the Transfer Method area, click the **via TFTP** radio button.

## Download/Backup Configuration/Log

Transfer Method:

via TFTP  
 via HTTP/HTTPS  
 via SCP (Over SSH)

Step 3. Click either the **Download** or **Backup** radio button of Save Action to indicate whether to download or backup the configuration file or log. In this example, Backup is chosen.

Save Action:

Download  
 Backup



Step 4. Click a radio button in the TFTP Server Definition area. The options are:

- By IP address — Choose to enter the IP address of the TFTP server. In this example, this option is chosen.
- By name — Choose to enter the hostname of the TFTP server. If this option is chosen, skip to [Step 6](#).

TFTP Server Definition:

By IP address  By name

Step 5. (Optional) If you chose By IP address, choose either **Version 4** (IPv4) or **Version 6** (IPv6) from the IP Version area. If you chose Version 6, specify whether the IPv6 is a Link Local or Global address in the IPv6 Address Type area. If it is a link local address, choose the interface from the Link Local Interface drop-down list. If Version 4 is chosen, skip to [Step 6](#).

TFTP Server Definition:

By IP address  By name

IP Version:

Version 6  Version 4

IPv6 Address Type:

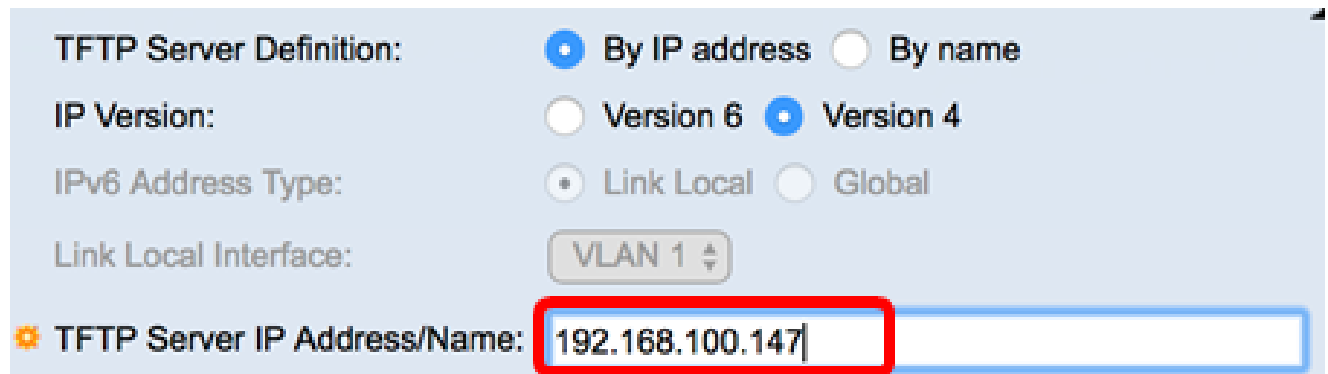
Link Local  Global

Link Local Interface:

VLAN 1

**Note:** In this example, IP Version 4 is chosen.

Step 6. (Optional) If you selected By name in Step 4, enter the hostname of the TFTP server in the *TFTP Server IP Address/Name* field. Otherwise, enter the IP address.

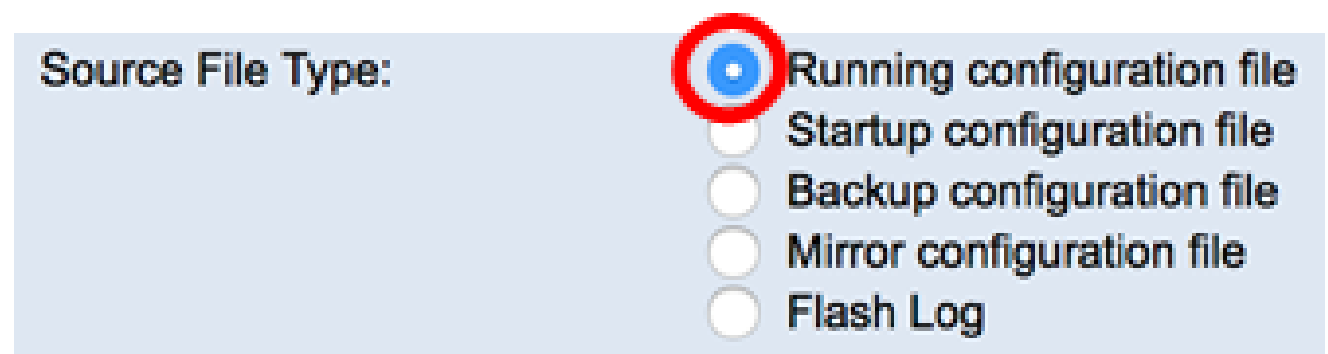


The screenshot shows a configuration form for a TFTP server. The 'TFTP Server Definition' section has two radio buttons: 'By IP address' (selected) and 'By name'. The 'IP Version' section has two radio buttons: 'Version 6' and 'Version 4' (selected). The 'IPv6 Address Type' section has two radio buttons: 'Link Local' (selected) and 'Global'. The 'Link Local Interface' is set to 'VLAN 1'. The 'TFTP Server IP Address/Name' field contains the IP address '192.168.100.147', which is highlighted with a red rectangle.

**Note:** In this example, the configuration file will be saved into the TFTP server with 192.168.100.147 IP address.

Step 7. In the Source File Type area, click the radio button of the type of file that you want to be backed up. The switch maintains the following configuration files.

- Running Configuration — The configuration file that contains the current configuration, including any changes applied in any management sessions since the last reboot.
- Startup Configuration — The configuration file that is saved to flash memory.
- Backup Configuration — An additional configuration file that is saved on the switch for backup purposes.
- Mirror Configuration — The running configuration file is automatically saved to the mirror configuration file type if it is not modified for at least 24 hours.
- Flash Log — The log file containing log entries that are stored to flash memory.



The screenshot shows the 'Source File Type' section of the configuration form. It has five radio buttons: 'Running configuration file' (selected and circled in red), 'Startup configuration file', 'Backup configuration file', 'Mirror configuration file', and 'Flash Log'.

**Note:** In this example, Running configuration file is chosen. Choosing this option will back up the current running configuration settings.

Step 8. In the Sensitive Data area, choose how sensitive data should be included in the backup file. The options are:

- Exclude — Do not include sensitive data in the backup.
- Encrypted — Include sensitive data in the backup in its encrypted form.
- Plaintext — Include sensitive data in the backup in its plaintext form.

**Sensitive Data:**


Exclude

Encrypted

Plaintext

**Note:** In this example, Plaintext is chosen. This will back up all data in plaintext form.

Step 9. Enter the backup file name in the *Destination File Name* field. In this example, SG300-28.txt is used.


 **Destination File Name:**  (12/160 characters used)

Step 10. Click **Apply** to start the backup operation.

## Download/Backup Configuration/Log

Transfer Method:  via TFTP  
 via HTTP/HTTPS  
 via SCP (Over SSH)

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Save Action:  Download  Backup 

TFTP Server Definition:  By IP address  By name

IP Version:  Version 6  Version 4

IPv6 Address Type:  Link Local  Global

Link Local Interface:

TFTP Server IP Address/Name:

Source File Type:  Running configuration file  
 Startup configuration file  
 Backup configuration file  
 Mirror configuration file  
 Flash Log

Sensitive Data:  Exclude  
 Encrypted  
 Plaintext  
Available sensitive data options are determined by the current user's SSD rules

Destination File Name:  (12/160 characters used)

Step 11. Once the operation is finished, click the **Done** button.

## Download/Backup Configuration/Log

Bytes Transferred: 10422

Status: Copy finished

Error Message:

You should now have successfully downloaded or backed up the configuration file of your switch

through the TFTP transfer method.

■ rootfs88xx.11-0-1MPP-477.sbn	Jun 27, 2017, 11:03 AM	52.1 MB
■ rootfs288xx.11-0-1MPP-477.sbn	Jun 27, 2017, 11:04 AM	52.7 MB
■ sb288xx.BE-01-0203P.sbn	Jun 27, 2017, 11:03 AM	432 KB
■ sb2288xx.BE-01-011.sbn	Jun 27, 2017, 11:04 AM	757 KB
■ SG300-28.txt	Today, 1:41 PM	10 KB
■ sip88xx.11-0-1MPP-477.loads	Jun 27, 2017, 11:04 AM	2 KB
■ ssb288xx.BE-01-005.sbn	Jun 27, 2017, 11:04 AM	130 KB

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## Download or Backup a System Configuration File via HTTP/HTTPS

Step 1. Choose **Administration > File Management > Download/Backup Configuration/Log**.



## Administration

System Settings

Console Settings

▶ Management Interface

User Accounts

Idle Session Timeout

▶ Time Settings

▶ System Log

## File Management

Upgrade/Backup Firmware/Language

Active Image

Download/Backup Configuration/Log

Configuration Files Properties

Copy/Save Configuration

DHCP Auto Configuration/Image Update

Reboot

▶ Diagnostics

Discovery - Bonjour

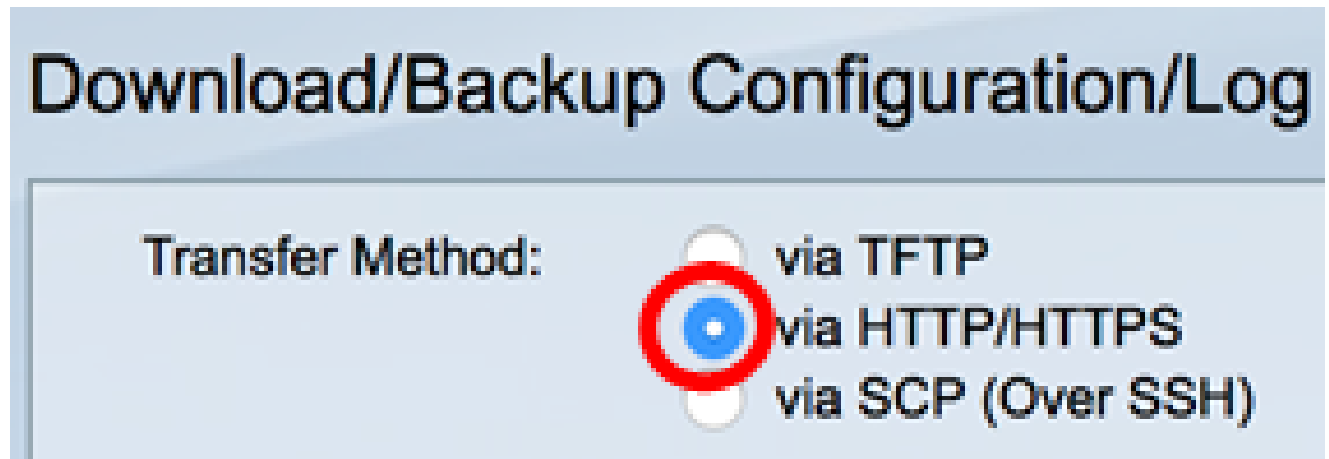
▶ Discovery - LLDP

▶ Discovery - CDP

Ping

Traceroute

Step 2. In the Transfer Method area, click the via **HTTP/HTTPS** radio button.

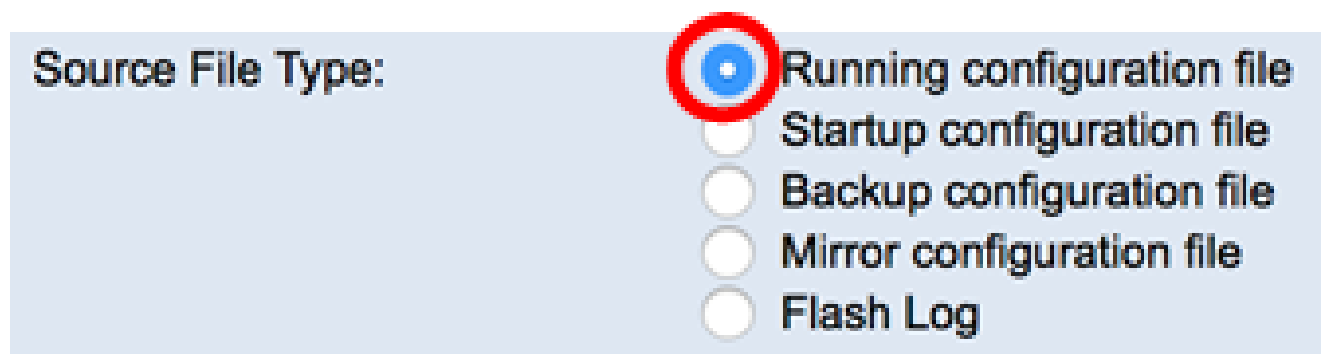


Step 3. Click either the **Download** or **Backup** radio button of Save Action to indicate whether to download or backup the configuration file or log. In this example, Backup is chosen.



Step 4. In the Source File Type area, click the radio button of the type of file that you want to be backed up. The switch maintains the following configuration files.

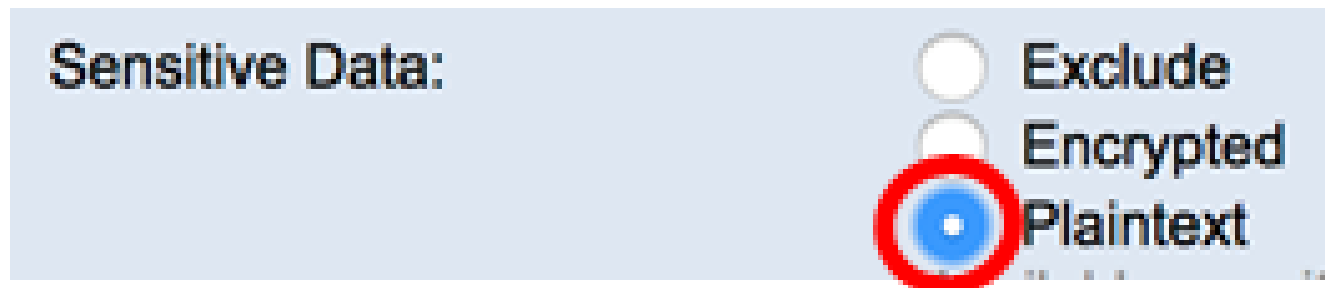
- Running Configuration — The configuration file that contains the current configuration, including any changes applied in any management sessions since the last reboot.
- Startup Configuration — The configuration file that is saved to flash memory.
- Backup Configuration — An additional configuration file that is saved on the switch for backup purposes.
- Mirror Configuration — The running configuration file is automatically saved to the mirror configuration file type if it is not modified for at least 24 hours.
- Flash Log — The log file containing log entries that are stored to flash memory.



**Note:** In this example, Running configuration file is chosen. Choosing this option will back up the current running configuration settings.

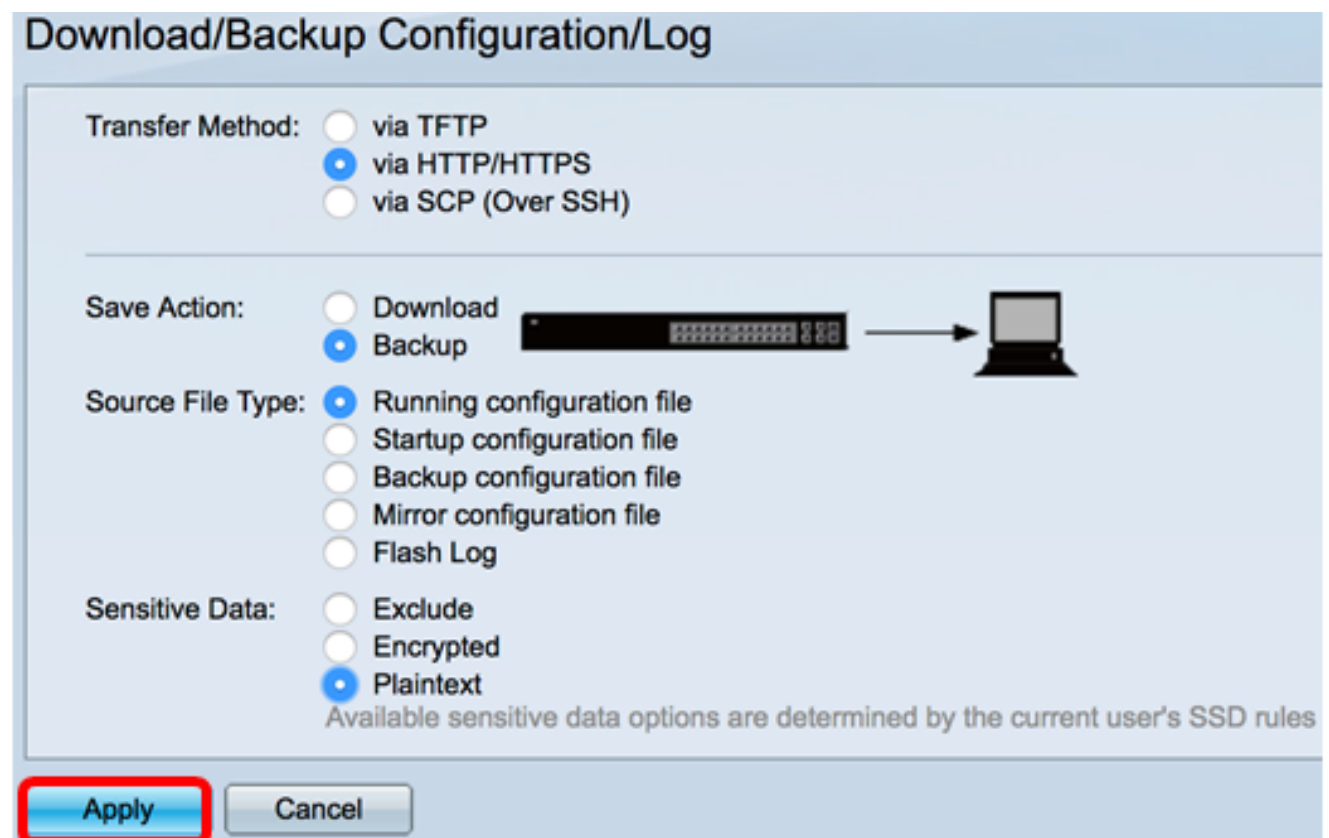
Step 5. In the Sensitive Data area, choose how sensitive data should be included in the backup file. The options are:

- Exclude — Do not include sensitive data in the backup.
- Encrypted — Include sensitive data in the backup in its encrypted form.
- Plaintext — Include sensitive data in the backup in its plaintext form.



**Note:** In this example, Plaintext is chosen. This will back up all data in plaintext form.

Step 6. Click **Apply**.



Step 7. Once the operation is complete, click the **Done** button.

# Download/Backup Configuration/Log

Bytes Transferred: 10422

Status: Copy finished

Error Message:

Done

You should now have successfully downloaded or backed up the configuration file of your switch through the HTTP/HTTPS transfer method.

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running-config (1).txt

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## Download or Backup a System Configuration File using SCP (Over SSH)

**Important:** Before you proceed with the SCP method, make sure that SSH server authentication is enabled and the corresponding settings have been configured. For instructions on how to configure SSH authentication settings on your switch, click [here](#).

Step 1. Choose **Administration >File Management > Download/Backup Configuration/Log**.

## Administration

System Settings

Console Settings

▶ Management Interface

User Accounts

Idle Session Timeout

▶ Time Settings

▶ System Log

## File Management

Upgrade/Backup Firmware/Language

Active Image

Download/Backup Configuration/Log

Configuration Files Properties

Copy/Save Configuration

DHCP Auto Configuration/Image Update

Reboot

▶ Diagnostics

Discovery - Bonjour

▶ Discovery - LLDP

▶ Discovery - CDP

Ping

Traceroute

Step 2. In the Transfer Method area, click the **viaSCP (Over SSH)** radio button. The SCP method is chosen to download/backup configuration file via Secure Shell (SSH). This download/backup of configuration files are done over a secure network.

## Download/Backup Configuration/Log

Transfer Method:

via TFTP

via HTTP/HTTPS

via SCP (Over SSH)

Step 3. Make sure that the Remote SSH Server Authentication is set to **Enabled**. This feature authenticates SSH servers, making sure that the expected SSH server is the correct one. It is disabled by default. Even when disabled, this feature will not affect SSH communications for file operations. If disabled, click **Edit** to enable the feature.

## SSH Settings For SCP:

Remote SSH Server Authentication: Enabled [Edit](#)

Step 4. Choose a radio button in the SSH Client Authentication area to specify which SSH credentials to use when contacting the remote host. Choose **Use SSH Client System Credentials** to use the permanent SSH credentials stored on the switch (these credentials can be set for future use by clicking System Credentials, which opens the SSH User Authentication page), or choose **Use SSH Client One-Time Credentials** to use temporary credentials.

**Note:** The username and password for one-time credential will not be saved in configuration file.

## SSH Settings For SCP:

Remote SSH Server Authentication: Enabled [Edit](#)

SSH Client Authentication:

Use SSH Client [System Credentials](#)  
 Use SSH Client One-Time Credentials:

Username

cisco

(The username is

Password

.....|

(The password is

**Note:** In this example, Use SSH Client One-Time Credentials is chosen and the username and password details are entered accordingly.

Step 5. Click either the **Download** or **Backup** radio button of Save Action to indicate whether to download or backup the configuration file or log. In this example, Backup is chosen.

Save Action:

Download  
 Backup



Step 6. Click a radio button in the SCP Server Definition area. The options are:

- By IP address — Choose to enter the IP address of the SCP server. In this example, this option is chosen.
- By name — Choose to enter the hostname of the SCP server. If this option is chosen, skip to [Step 8](#).

SCP Server Definition:

By IP address  By name

IP Version:

Version 6  Version 4

IPv6 Address Type:

Link Local  Global

Link Local Interface:

VLAN 1

Step 7. (Optional) If you chose By IP address, choose either **Version 4** (IPv4) or **Version 6** (IPv6) from the IP Version area. If you chose Version 6, specify whether the IPv6 is a Link Local or Global address in the IPv6 Address Type area. If it is a link local address, choose the interface from the Link Local Interface drop-down list. If Version 4 is chosen, skip to [Step 8](#).

SCP Server Definition:  By IP address  By name

IP Version:  Version 6  Version 4

IPv6 Address Type:  Link Local  Global

Link Local Interface: VLAN 1

**Note:** In this example, IP Version 4 is chosen.

Step 8. (Optional) If you selected By name in Step 6, enter the hostname of the TFTP server in the *SCP Server IP Address/Name* field. Otherwise, enter the IP address.

SCP Server Definition:  By IP address  By name

IP Version:  Version 6  Version 4

IPv6 Address Type:  Link Local  Global

Link Local Interface: VLAN 1

SCP Server IP Address/Name: 192.168.100.148

**Note:** In this example, the configuration file will be saved into the SCP server with 192.168.100.148 IP address.

Step 9. In the Source File Type area, click the radio button of the type of file that you want to be backed up. The switch maintains the following configuration files.

- Running Configuration — The configuration file that contains the current configuration, including any changes applied in any management sessions since the last reboot.
- Startup Configuration — The configuration file that is saved to flash memory.
- Backup Configuration — An additional configuration file that is saved on the switch for backup purposes.
- Mirror Configuration — The running configuration file is automatically saved to the mirror configuration file type if it is not modified for at least 24 hours.
- Flash Log — The log file containing log entries that are stored to flash memory.



Source File Type:

- Running configuration file
- Startup configuration file
- Backup configuration file
- Mirror configuration file
- Flash Log

**Note:** In this example, Running configuration file is chosen. Choosing this option will back up the current running configuration settings.

Step 10. In the Sensitive Data area, choose how sensitive data should be included in the backup file. The options are:

- Exclude — Do not include sensitive data in the backup.
- Encrypted — Include sensitive data in the backup in its encrypted form.
- Plaintext — Include sensitive data in the backup in its plaintext form.

Sensitive Data:

- Exclude
- Encrypted
- Plaintext

**Note:** In this example, Plaintext is chosen. This will back up all data in plaintext form.

Step 11. Enter the backup file name in the *Destination File Name* field. In this example, the backup configuration file will be saved in the SG300-28.txt file.

 Destination File Name:  (12/160 characters used)

Step 12. Click **Apply** to start the backup operation.

## Download/Backup Configuration/Log

Transfer Method:  via TFTP  
 via HTTP/HTTPS  
 via SCP (Over SSH)

### SSH Settings For SCP:

Remote SSH Server Authentication: Enabled [Edit](#)

SSH Client Authentication:  Use SSH Client [System Credentials](#)  
 Use SSH Client One-Time Credentials:

Username  (The username is not saved in the configuration file)

Password  (The password is not saved in the configuration file)

Save Action:  Download  Backup 

SCP Server Definition:  By IP address  By name

IP Version:  Version 6  Version 4

IPv6 Address Type:  Link Local  Global

Link Local Interface:

SCP Server IP Address/Name:

Source File Type:  Running configuration file  
 Startup configuration file  
 Backup configuration file  
 Mirror configuration file  
 Flash Log

Sensitive Data:  Exclude  
 Encrypted  
 Plaintext  
Available sensitive data options are determined by the current user's SSD rules

Destination File Name:  (12/160 characters used)

**Apply**

Cancel

Step 13. Once the operation is finished, click the **Done** button.

# Download/Backup Configuration/Log

Bytes Transferred: 10422

Status: Copy finished

Error Message:



You should now have successfully downloaded or backed up the configuration file of your switch through the SCP transfer method.

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