

# Update Configuration Files on a Switch through the CLI

## Objective

The Cisco Small Business Switches contain several configuration and management files which determine the settings of the switch and how it operates. These files can be manipulated on the File Operations page of the web-based utility of the switch, where configuration files can be backed up, upgraded, or copied. Files can be moved between a connected USB device, the internal flash of the switch, or the Trivial File Transfer Protocol (TFTP) or Secure Copy (SCP) server. Storing these files in multiple locations can be useful in case you want to roll back the device to an earlier state, or in the event of a device failure. This article provides instructions on how to update the system configuration file through any of the following methods:

- USB or Internal Flash — Choose the source file from the internal flash memory or from a connected USB device on the switch.
- TFTP — Upload the source file to the switch from the TFTP server.
- SCP (File transfer via SSH) — Upload the source file to the switch from the SCP server.

## Applicable Devices | Software Version

- Sx350 Series | 2.3.0.130
- SG350X Series | 2.3.0.130

## Update Configuration Files

Step 1. Log in to the switch console. The default username and password is cisco/cisco. If you have configured a new username or password, enter the credentials instead.

To learn how to access an SMB switch CLI through SSH or Telnet, click [here](#).

The commands may vary depending on the exact model of your switch. In this example, the SG350X-48MP switch is accessed through Telnet.

Step 2. To back up a configuration file to a specific destination, enter the following:

```
CBS350X#copy [src-url] [running-config | startup-config]
```

The parameters are:

- running-config — The configuration file that contains the current configuration, including any changes applied in any management sessions since the last reboot.
- startup-config — The configuration file that is saved to flash memory.
- src-url — The URL of the source file or the directory to be copied. The predefined URL aliases can be configured.

- tftp:// — Source URL (tftp://ip-address/filename) for a file on a TFTP network server from which to download.
  - scp:// — Source URL (scp://[username:password@]host/filename) for a file on an SCP server from which to download using SSH client. 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 through the CLI, [click here](#).
  - usb:// — Copy from an absolute file path on the USB device using the format usb://directory/filename.
  - flash:// — Copy from an absolute file path on the flash memory using the format flash://directory/filename.
- 
- exclude — The file does not include sensitive data in the file being copied.
  - include-encrypted — The file includes sensitive data in its encrypted form. This secure option is applied by default, if no secure option is configured.
  - include-plaintext — The file includes sensitive data in its plaintext form.

### **Guidelines:**

- Use the copy src-url running-config command to update the current configuration file from the file saved at a network server, such as TFTP or SCP.
- Use the copy src-url startup-config command to update the startup configuration file from the file saved at a network server.

### **TFTP:**

```

SG350X#copy ftp://192.168.100.139/running-350.txt running-config
26-Oct-2017 05:17:19 %COPY-I-FILECOPY: Files copy - source URL tftp://192.168.100.139/
running-350.txt destination URL running-config
26-Oct-2017 05:17:19 %LINK-I-Up: Vlan 10
26-Oct-2017 05:17:19 %LINK-I-Up: Vlan 20
26-Oct-2017 05:17:19 %LINK-I-Up: Vlan 40
26-Oct-2017 05:17:19 %LINK-I-Up: Vlan 50
26-Oct-2017 05:17:19 %LINK-I-Up: Vlan 60
26-Oct-2017 05:17:19 %LINK-W-Down: Vlan 10
26-Oct-2017 05:17:19 %LINK-W-Down: Vlan 20
26-Oct-2017 05:17:19 %LINK-W-Down: Vlan 50
26-Oct-2017 05:17:19 %LINK-W-Down: Vlan 60
26-Oct-2017 05:17:19 %LINK-I-Up: Vlan 10
26-Oct-2017 05:17:19 %LINK-I-Up: Vlan 20
26-Oct-2017 05:17:19 %LINK-I-Up: Vlan 50
26-Oct-2017 05:17:19 %LINK-I-Up: Vlan 60
26-Oct-2017 05:17:19 %BOOTP_DHCP_CL-I-DHCPRENEWED: The device has been renewed the co
nfiguration on interface Vlan 1 , IP 192.168.100.112, mask 255.255.255.0, DHCP server
192.168.100.1
26-Oct-2017 05:17:20 %LINK-W-Down: Vlan 10
26-Oct-2017 05:17:20 %LINK-W-Down: Vlan 20
26-Oct-2017 05:17:20 %LINK-W-Down: Vlan 50
26-Oct-2017 05:17:20 %LINK-W-Down: Vlan 60
26-Oct-2017 05:17:21 %COPY-N-TRAP: The copy operation was completed successfully
26-Oct-2017 05:17:21 %LINK-W-Down: Vlan 40
26-Oct-2017 05:17:21 %BOOTP_DHCP_CL-I-DHCPRENEWED: The device has been renewed the co
nfiguration on interface Vlan 1 , IP 192.168.100.112, mask 255.255.255.0, DHCP server
192.168.100.1

11504 bytes copied in 00:00:01 [hh:mm:ss]

SG350X#

```

In this example, the running configuration file is updated with the configuration file that is located at a TFTP server with IP address 192.168.100.139.

**SCP:**

```
SG350) #scp://cisco:cisco12345@192.168.100.139/running-350.txt running-config
26-Oct-2017 02:23:25 %COPY-I-FILECOPY: Files Copy - source URL scp://cisco:cisco12345@
192.168.100.139/running-350.txt destination URL running-config
26-Oct-2017 02:23:29 %LINK-I-Up: Vlan 10
26-Oct-2017 02:23:29 %LINK-I-Up: Vlan 20
26-Oct-2017 02:23:29 %LINK-I-Up: Vlan 40
26-Oct-2017 02:23:29 %LINK-I-Up: Vlan 50
26-Oct-2017 02:23:29 %LINK-I-Up: Vlan 60
26-Oct-2017 02:23:29 %LINK-W-Down: Vlan 10
26-Oct-2017 02:23:29 %LINK-W-Down: Vlan 20
26-Oct-2017 02:23:29 %LINK-W-Down: Vlan 50
26-Oct-2017 02:23:29 %LINK-W-Down: Vlan 60
26-Oct-2017 02:23:30 %BOOTP_DHCP_CL-I-DHCPRENEWED: The device has been renewed the co
nfiguration on interface Vlan 1 , IP 192.168.100.112, mask 255.255.255.0, DHCP server
192.168.100.1
26-Oct-2017 02:23:30 %COPY-N-TRAP: The copy operation was completed successfully

11504 bytes copied in 00:00:05 [hh:mm:ss]

SG350X#26-Oct-2017 02:23:30 %LINK-W-Down: Vlan 40
26-Oct-2017 02:23:30 %BOOTP_DHCP_CL-I-DHCPRENEWED: The device has been renewed the co
nfiguration on interface Vlan 1 , IP 192.168.100.112, mask 255.255.255.0, DHCP server
192.168.100.1

SG350X#
```

In this example, the running configuration is replaced with the configuration file that is saved at an SCP server with IP address 192.168.100.139, which used the credentials cisco and cisco12345 as the username and password, respectively.

**USB or Flash:**



```

SG350X#copy usb://running-350.txt running-config
26-Oct-2017 05:29:08 %COPY-I-FILECPY: Files Copy - source URL usb://running-350.txt
destination URL running-config
26-Oct-2017 05:29:08 %LINK-I-Up: Vlan 10
26-Oct-2017 05:29:08 %LINK-I-Up: Vlan 20
26-Oct-2017 05:29:08 %LINK-I-Up: Vlan 40
26-Oct-2017 05:29:08 %LINK-I-Up: Vlan 50
26-Oct-2017 05:29:08 %LINK-I-Up: Vlan 60
26-Oct-2017 05:29:08 %LINK-W-Down: Vlan 10
26-Oct-2017 05:29:08 %LINK-W-Down: Vlan 20
26-Oct-2017 05:29:08 %LINK-W-Down: Vlan 50
26-Oct-2017 05:29:08 %LINK-W-Down: Vlan 60
26-Oct-2017 05:29:09 %BOOTP_DHCP_CL-I-DHCPRENEWED: The device has been renewed the
configuration on interface Vlan 1 , IP 192.168.100.112, mask 255.255.255.0, DHCP se
rver 192.168.100.1
26-Oct-2017 05:29:09 %COPY-N-TRAP: The copy operation was completed successfully

11504 bytes copied in 00:00:01 [hh:mm:ss]

SG350X#26-Oct-2017 05:29:09 %LINK-W-Down: Vlan 40
26-Oct-2017 05:29:09 %BOOTP_DHCP_CL-I-DHCPRENEWED: The device has been renewed the
configuration on interface Vlan 1 , IP 192.168.100.112, mask 255.255.255.0, DHCP se
rver 192.168.100.1

SG350X#

```

In this example, the running configuration is replaced with the configuration file that is saved at a USB device that is connected to the USB port of the switch.

Step 3. (Optional) To copy the running configuration file to the startup configuration file, enter the following:

```

SG350X#copy running-config startup-config
Overwrite file [startup-config]... (Y/N)[N] ?

```

Step 4. (Optional) Press Y for Yes or N for No on your keyboard once the Overwrite file [startup-config]... prompt appears. In this example, Y is pressed.

```

SG350X#copy running-config startup-config
Overwrite file [startup-config]... (Y/N)[N] ?Y
26-Oct-2017 05:48:17 %COPY-I-FILECPY: Files Copy - source URL running-config destin
ation URL flash://system/configuration/startup-config
26-Oct-2017 05:48:20 %COPY-N-TRAP: The copy operation was completed successfully

SG350X#

```

## Conclusion

You should now have successfully updated the configuration files of your switch through the CLI, using the files that are saved from the network server.