Downloading Software to the PowerConnect 5524/5548/5524P/5548P

NOTE: Software for PowerConnect 5524/5524P/5548/5548P is powerconnect_55xx-41024.ros

NOTE: Boot Code for PowerConnect 5524/5524P/5548/5548P is powerconnect_55xx_boot-10014.rfb

Using TFTP and the CLI to download software and boot code

NOTE: A TFTP server must be on the network and the switch software must be accessible by the TFTP server before attempting to download the switch software by TFTP.

1. Connect to the serial port (default setting 9600 baud, 8 data bits, no start bits, 1 stop bits) and enter the CLI mode. The following prompt is displayed:

```
console>
```

2. Ensure that an IP address is assigned to at least one port on the switch.   Use the following commands to assign an IP address to vlan 1 (this example uses IP address 10.10.10.101).

```
console> enable
console# config
console(config)# interface vlan 1
console(config-if)# ip address 10.10.10.101 /24
console(config-if)#exit
```

3. Enter **console#copy tftp://{tftp address}/{file name} image** to copy the software to the switch. The software is copied but does not become active until the file is selected as the active image file and the switch is reset. The following is an example of the information that is displayed:

```
console# copy tftp://10.10.10.100/powerconnect_55xx-41024.ros image
 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
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 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
 !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!
 Copy: 6288288 bytes copied in 00:01:36 [hh:mm:ss]
```

4. Enter **console#copy tftp://{tftp address}/{file name} boot** to copy the boot software to the switch. The boot software is copied but does not become active until the switch is reset. The following is an example of the information that is displayed:

```
console# copy tftp://10.10.10.100/powerconnect_55xx_boot-10014.rfb boot
!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!!!!!!!!!!!!!
Copy: 524304 bytes copied in 00:00:08 [hh:mm:ss]
console#
```

5. Enter **console# show bootvar** to verify which image is active. The following is an example of the information which is displayed:

```
console# show bootvar

Image  Filename     Version         Date                     Status
-----  ---------   ---------    ---------------------     -----------
  1       image-1    4.1.0.24  11-Sep-2020   18:26:54      Not active
  2       image-2    4.1.0.16   17-Mar-2014   15:16:29      Active*

"*" designates that the image was selected for the next boot

console#
```

6. When new software is downloaded, it goes to the “not active” image. Since image-1 has the new software (the not active image), enter **console# boot system image-1** to boot from image2

   ```
   console# boot system image-1
   ```

7. Type **reload**. The following message is displayed:

   ```
   console# reload

   This command will reset the whole system and disconnect your current session.
   Do you want to continue (y/n)[n]?
   ```

8. Type **Y**. The switch reboots.

Using TFTP and the CLI to download software and boot code to stacked switches

NOTE: A TFTP server must be on the network and the switch software must be accessible by the TFTP server before attempting to download the switch software by TFTP.

1. Connect to the serial port (default setting 9600 baud, 8 data bits, no start bits, 1 stop bits) and enter the CLI mode. The following prompt is displayed:

   ```
   console>
   ```

2. Ensure that an IP address is assigned to at least one port on the switch.   Use the following commands to assign an IP address to vlan 1 (this example uses IP address 10.10.10.101).

   ```
   console> enable
   console# config
   console(config)# interface vlan 1
   console(config-if)#ip address 10.10.10.101 /24
   console(config-if)#exit
   ```

3. Enter **console#copy tftp://{tftp address}/{file name} unit://*/image** to copy the software to all the switches in the stack. The software is copied but does not become active until the file is selected as the active image file and the switches are reset. The following is an example of the information that is displayed:

```
console# copy tftp://10.10.10.100/powerconnect_5500-41024.ros unit://*/
image !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
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!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!! !!!!!!!!!!!!!!!!11-Sep-2020 18:40:07 %COPY-N-TRAP: The copy operation was
completed successfully
console#
```

4. Enter **console#copy tftp://{tftp address}/{file name} unit://*/boot** to copy the boot software to the switch. The boot software is copied but does not become active until the switch is reset. The following is an example of the information that is displayed:

```
console# tftp://10.10.10.100/powerconnect_55XX_boot-10014.rfb unit://*/
boot !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!! !!!!!!!!!!!!!!!!!!!!!!!!
Copy: 524304 bytes copied in 00:00:08 [hh:mm:ss]
console#
```

5. Enter **console# show bootvar** to verify which image is active. The following is an example of the information which is displayed:

```
console# show bootvar

Unit   Image   Filename    Version     Date                         Status
----   -----   ---------   ---------   --------------------         -----------
1      1       image-1     4.1.0.24    11-Sep-2020   18:26:54       Not active
1      2       image-2     4.1.0.16    17-Mar-2014   15:16:29       Active*
2      1       image-1     4.1.0.23    27-Mar-2020   18:56:54       Not active
2      2       image-2     4.1.0.16    17-Mar-2014   15:16:29       Active*
3      1       image-1     4.1.0.23    23-Mar-2020   18:56:54       Not active
3      2       image-2     4.1.0.16    17-Mar-2014   15:16:29       Active*

"*" designates that the image was selected for the next boot
```

6. When new software is downloaded, it goes to the “not active” images on each of the stack switches. Since image-1 has the new software on unit 1 (the Not active image), enter **console# boot system image-1 switch-1** to boot from image-1. Since image-1 has the new image on unit 2 (the Not active image), enter **console# boot system image-1 switch-2** to boot from image-1. Since image-1 has the new software on unit 3 (the Not active image), enter **console# boot system image-1 switch-3** to boot from image-1.

```
console# boot system image-1 switch 1
console# boot system image-1 switch 2
console# boot system image-1 switch 3
```

We can also use below command to boot from image-1 on all switches instead of doing separately for all switches.

```
console# boot system image-1 all
```

7. Type **reload**. The following message is displayed:

```
console# reload

This command will reset the whole system and disconnect your current session.
Do you want to continue (y/n)[n]?
```

8. Type **Y**. The switch reboots

9. Enter `console# show version` to verify that the new software version is currently running on each unit. The following is an example of the information which is displayed:

```
console#show version

        Unit              SW version          Boot version          HW version
-------------------- -------------------- -------------------- -----------------
         1                4.1.0.24            1.0.0.14              00.00.02
         2                4.1.0.24            1.0.0.14              00.00.02
         3                4.1.0.24            1.0.0.14              00.00.02
```

Using XMODEM and the Startup Menu

The switch software can be downloaded via the Startup menu accessed during the boot process. boot process can be initiated by power cycling the switch or by reloading from the CLI (command line interface).

1. Connect to the serial port - Default setting 9600 baud, 8 data bits, no start bits, 1 stop bits) and enter the CLI mode. The following prompt is displayed:

```
console>
```

2. Type **enable** to enter the enable CLI mode:

```
console> enable
console#
```

3. Type **reload**. The following message is displayed:

```
console# reload

This command will reset the whole system and disconnect your current session.
Do you want to continue (y/n)[n]?
```

4. Type **`Y`**. The switch reboots.

5. Press **<Return>** or **<Esc>** within 2 seconds. The **Startup** menu is displayed.

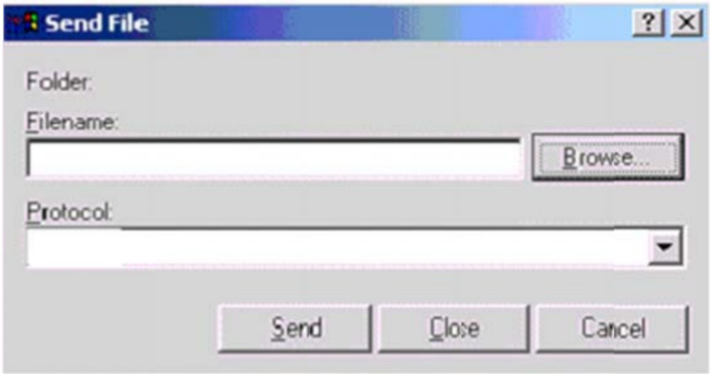
```
     Startup Menu

[1]  Download Software
[2]  Erase Flash File
[3]  Password Recovery Procedure
[4]  Enter Diagnostic Mode
[5]  Set Terminal Baud-Rate
[6]  Stack menu
[7]  Back
 Enter your choice or press 'ESC' to exit:
```

6. Type **1**. The following prompt is displayed:

```
Downloading code using XMODEM.
```

7. Using any VT100 emulator (Windows HyperTerminal shown here), select the download file option. The **Send File** window is displayed. Click the **Send** button.



8. Enter the path and filename for the software (`powerconnect_55xx-41024.ros`)

9. Ensure the protocol is defined as **Xmodem.**

10. Click **Send**. The software is downloaded.

11. Once the download is complete (this may take an hour or longer), the device reboots automatically