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FS S3410 Series Switches User Guide

S3410 Series Switches
Software Upgrade Guide
Models: S3410-24TS-P; S3410-48TS-P; S3410-10TF-P
UPGRADE INSTRUCTIONS

Contents

Explanation

When new features are added or the original performance needs to be optimized and the current running version is lagging behind, the device needs to be upgraded. At this time, you need to load the higher version of the system software, upgrade through the CLI interface, WEB interface, and restart the device to achieve.

Precautions

- In the process of upgrading and downgrading, please pay attention to the prompt information output during the operation. If it fails, please save the log information and contact FS Network Technical Support.

- During the upgrade and downgrade process, there will be a prompt message not allowing restart. Once such a prompt message appears, please do not power off, do not reset the system, and do not insert or remove any modules.

- After the upgrade and downgrade are complete, run the show version command to view the current version number of the device to confirm the upgrade is successful.

Upgrade File

To upgrade the device to this version or downgrade to this version, you need to use the following upgrade file.

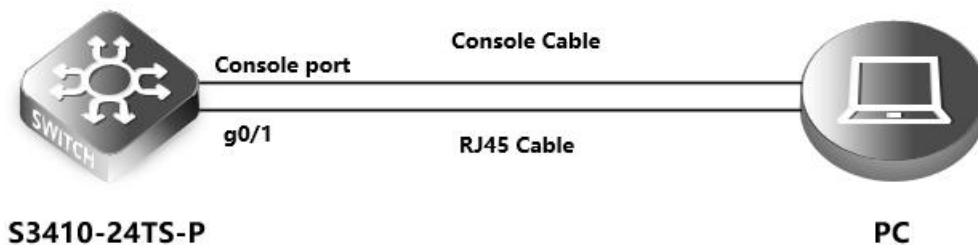| Applicable Products	Upgrade File	
S3410-24TS-P	Upgrade File	S3410-24TS-P_FSOS11.4(1)B70P1_install.bin
	File Description	System installation package
	File Size	75402076 bytes
	MD5 Value	820d6326f9228ad8067b794e063db015

TFTP Server Setup

Use software TFTP on local PC
Specify the folder where the version file is located and the IP address of the TFTP server
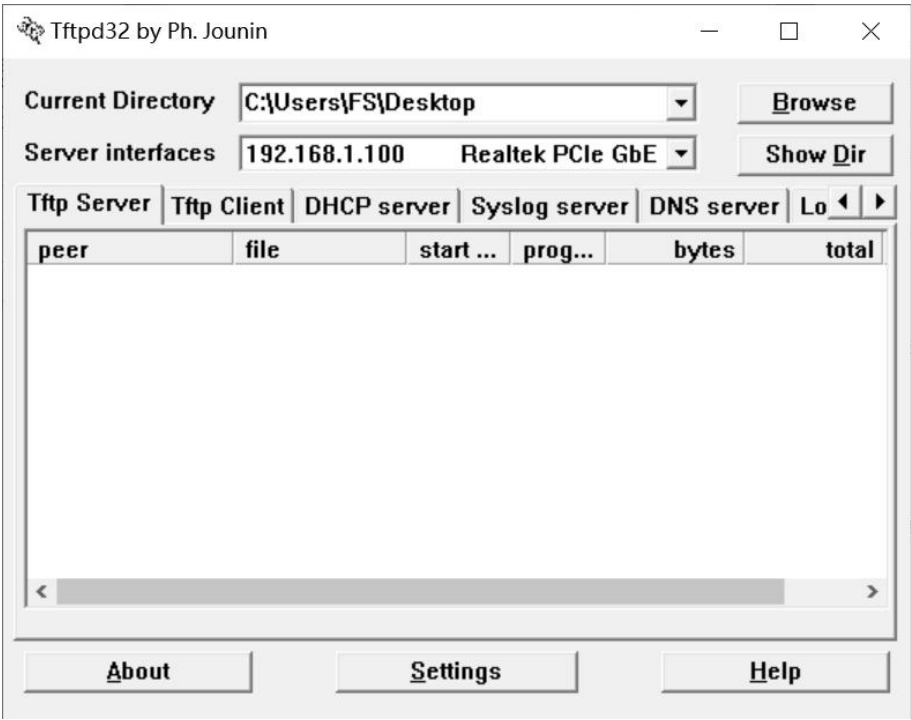
Upgrade Steps

4.1 Upgrade Under the Main Program
4.1.1 Network Topology

S3410-24TS-P

4.1.2 Configuration Steps
Set the IP address of the console port of the switch

S3410-24TS-P>enable ——->Enter privileged mode
S3410-24TS-P#configure terminal ——->Enter global configuration mode
S3410-24TS-P(config)#interface vlan 1 ——->Enter vlan 1 interface
S3410-24TS-P(config-if)#ip address 192.168.1.200 255.255.255.0 ——->Set management ip on vlan 1 interface
S3410-24TS-P(config-if)#exit ——->Return to global configuration mode

Set the computer IP address, and confirm that the computer can ping the switch, and the switch can also ping the computer
C:\Users\FS>ping 192.168.1.200
Ping 192.168.1.200 with 32 bytes of data:
Reply from 192.168.1.200: Byte=32 Time=3ms TTL=64
Reply from 192.168.1.200: Byte=32 Time=2ms TTL=64
Reply from 192.168.1.200: Byte=32 Time=2ms TTL=64
Reply from 192.168.1.200: Byte=32 Time=2ms TTL=64

Ping statistics of 192.168.1.200: Packet: Sent = 4, Received = 4, Lost = 0 (0% lost),
Estimated time of round trip (in milliseconds): Shortest = 2ms, longest = 3ms, average = 2ms

S3410-24TS-P#ping 192.168.1.100
Sending 5, 100-byte ICMP Echoes to 192.168.1.100, timeout is 2 seconds: < press CTRL to break > !!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/2 ms.

NOTE: The firewall function of the computer must be turned off, and the anti-virus software must be exited, otherwise the upgrade may not succeed

Put the tftp software (tftp software can be downloaded from the Internet) and the new software version into the same directory.
Start the tftp tool and execute the following commands on the switch, the device will be automatically upgraded:
S3410-24TS-P#upgrade download **tftp://192.168.1.100/S3410-24TS-P_FSOS11.4(1)B70P1_install.bin**
Upgrade the device must be auto-reset after finish, are you sure upgrading now?[Y/N]y

The following prompt indicates that the upgrade was successful:
*Sep 19 12:37:24: %7: [Slot 0]:Upgrade processing is 10%
*Sep 19 12:37:39: %7:
*Sep 19 12:37:39: %7: [Slot 0]:Upgrade processing is 20%
*Sep 19 12:37:39: %7:
*Sep 19 12:37:40: %7: [Slot 0]:Upgrade processing is 30%
*Sep 19 12:37:40: %7:
*Sep 19 12:37:40: %7: [Slot 0]:Upgrade processing is 40%
*Sep 19 12:37:40: %7:
*Sep 19 12:37:40: %7: [Slot 0]:Upgrade processing is 50%
*Sep 19 12:37:40: %7:

*Sep 19 12:37:40: %7: [Slot 0]:Upgrade processing is 60%
*Sep 19 12:37:41: %7:
*Sep 19 12:37:41: %7: [Slot 0]:Upgrade processing is 70%

Upgrade info [OK]
Roofs version[1.0.0.ca7d092b->1.0.0.99662b17]

Reload system to take effect!
System is reload%FS_SYS-0-REBOOT
……
Erasing at 0xfe0000 — 100% complete.
OK
Erasing Nand…
Erasing at 0x4e0000 — 100% complete.
Writing to Nand… done

SUCCESS: UPGRADING OK.
resetting …
……

Restart the switch
S3410-24TS-P#reload ——->Restart the switch to take effect
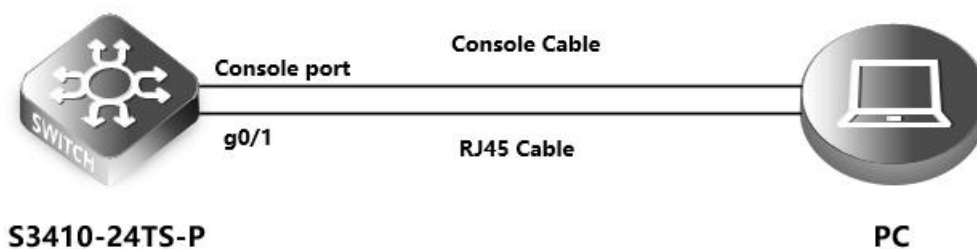Reload system?(Y/N) y
After restart, confirm whether the switch is successfully upgraded

4.1.3 Functional Verification
Confirm whether the version is the upgraded version by show version

4.2 U Disk Upgrade

4.2.1 Network Topology

4.2.2 Configuration Steps
Set the IP address of the console port of the switch
S3410-24TS-P>enable ——->Enter privileged mode
S3410-24TS-P#configure terminal ——->Enter global configuration mode
S3410-24TS-P(config)#interface vlan 1 ——->Enter vlan 1 interface
S3410-24TS-P(config-if)#ip address 192.168.1.200 255.255.255.0 ——->Set management ip on vlan 1 interface
S3410-24TS-P(config-if)#exit ——->Return to global configuration mode

Set the computer IP address, and confirm that the computer can ping the switch, and the switch can also ping the computer
C:\Users\FS>ping 192.168.1.200
Ping 192.168.1.200 with 32 bytes of data:
Reply from 192.168.1.200: Byte=32 Time=3ms TTL=64

Reply from 192.168.1.200: Byte=32 Time=2ms TTL=64
Reply from 192.168.1.200: Byte=32 Time=2ms TTL=64
Reply from 192.168.1.200: Byte=32 Time=2ms TTL=64

Ping statistics of 192.168.1.200: Packet: Sent = 4, Received = 4, Lost = 0 (0% lost),
Estimated time of round trip (in milliseconds): Shortest = 2ms, longest = 3ms, average = 2ms

S3410-24TS-P#ping 192.168.1.100
Sending 5, 100-byte ICMP Echoes to 192.168.1.100, timeout is 2 seconds: < press Ctrl+C to break > !!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/2 ms.

NOTE: The firewall function of the computer must be turned off, and the anti-virus software must be exited, otherwise the upgrade may not succeed

Insert the U disk carrying the installation package into the USB port of the device
Log in to the switch and execute the following commands on the switch, the device will be automatically upgraded:
S3410-24TS-P#upgrade usb0:S3410-24TS-P_FSOS11.4(1)B70P1_install.bin ——->There is no space between usb0 and the name of the rack package
*Sep 19 12:37:24: %7: [Slot 0]:Upgrade processing is 10%

*Sep 19 12:37:39: %7:
*Sep 19 12:37:39: %7: [Slot 0]:Upgrade processing is 20%
*Sep 19 12:37:39: %7:
*Sep 19 12:37:40: %7: [Slot 0]:Upgrade processing is 30%
*Sep 19 12:37:40: %7:
*Sep 19 12:37:40: %7: [Slot 0]:Upgrade processing is 40%
*Sep 19 12:37:40: %7:
*Sep 19 12:37:40: %7: [Slot 0]:Upgrade processing is 50%
*Sep 19 12:37:40: %7:
*Sep 19 12:37:40: %7: [Slot 0]:Upgrade processing is 60%
*Sep 19 12:37:41: %7:
*Sep 19 12:37:41: %7: [Slot 0]:Upgrade processing is 70%

Upgrade info [OK] Rootfs version[1.0.0.ca7d092b->1.0.0.99662b17]

Reload system to take effect!
System is reload%FS_SYS-0-REBOOT
……
Erasing at 0xfe0000 — 100% complete.
OK
Erasing Nand…
Erasing at 0x4e0000 — 100% complete.
Writing to Nand… done

SUCCESS: UPGRADING OK.
resetting …
……

Restart the switch
S3410-24TS-P#reload ——> Restart the switch to take effect
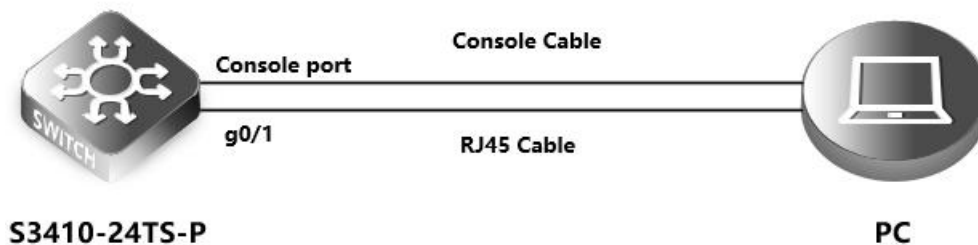Reload system?(Y/N) y

After restart, confirm whether the switch is successfully upgraded

4.2.3 Functional Verification
Confirm whether the version is the upgraded version by show version

4.3 Upgrade in U-boat Mode

4.3.1 Network Topology

4.3.2 Configuration Steps

Restart the device
When the CTRL prompt appears, press the CTRL and C keys simultaneously on the keyboard to enter the bootloader menu
Boot 1.2.28-0c4a1bf (Feb 09 2017 – 17:14:53)
I2C: ready
DRAM: 508 MiB
NAND: (ONFI), chip size 512 MI
In: serial
Out: serial
Err: serial

Unlocking L2 Cache …Done
arm_clk=1000MHz, axi_clk=400MHz, apb_clk=100MHz, arm_periph_clk=500MHz
SETMAC: Sumac operation was performed at 2020-02-28 15:24:58 (version: 11.0)

Press CTRL to enter Boot Menu
Net: eth-0
Entering simple UI….

====== Bootloader Menu("CTRL" to upper level) ======
TOP menu items.
****
0. Tftp utilities.
1. Modem utilities.
2. Run main.
3. Sumac utilities.
4. Scattered utilities.
5. Set Module Serial
****

After entering the bootloader menu, click the red reminder below to enter the address configuration menu
====== Bootloader Menu("CTRL" to upper level) ======
TOP menu items.
****
0. Tftp utilities.
1. Modem utilities.
2. Run main.

3. Sumac utilities.
4. Scattered utilities.
5. Set Module Serial
****

Press a key to run the command: 0

====== Bootloader Menu("CTRL" to upper level) ======
Tftp utilities.
****

0. Upgrade bootloader.
1. Upgrade kernel and roofs by install package.
2. Down to memory and jump to run.
****

Press a key to run the command: 1

Under the menu, follow the prompts to enter the switch device address, execute the pc address, and the file name to be upgraded
Plz enter the Local IP:[]: 192.168.1.200 ———>Switch address
Plz enter the Remote IP:[]: 192.168.1.100 ———>PC address
Plz enter the Filename:[]: S3410-24TS-P_FSOS11.4(1)B70P1_install.bin ———>Upgrade bin file

Follow the prompts to select Y to continue to the next step
Determined to upgrade? [Y/N]: Y
Upgrading, keep power on and wait please …
Upgrading boot …

After successful upgrade, automatically return to the bootloader menu interface, press Ctrl+Z to exit the menu item to restart
====== Bootloader Menu("Ctrl+Z" to upper level) ======
Tftp utilities.
****

0. Upgrade bootloader.
1. Upgrade kernel and roofs by install package.
2. Down to memory and jump to run.
****

Press a key to run the command:
====== Bootloader Menu("CTRL" to upper level) ======
TOP menu items.
****

0. Tftp utilities.
1. Modem utilities.
2. Run main.
3. Sumac utilities.
4. Scattered utilities.
5. Set Module Serial
****
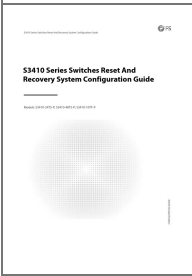
Press a key to run the command: 2
Unmounting UBIFS volume kernel!

4.3.3 Functional Verification
Confirm whether the version is the upgraded version by show version

Documents / Resources

	FS S3410 Series Switches [pdf] User Guide S3410 Series Switches, S3410 Series, Switches
	FS S3410 Series Switches [pdf] User Guide S3410-24TS-P, S3410-48TS-P, S3410-10TF-P, S3410 Series Switches, S3410 Series, Switches

References

- 🌐 **Inicio - Fundación Grupo Social - Una semilla de cambio**
- 🔴 **FS.com - Data Center, Enterprise, Telecom**