

Method to Upgrade VRP in CLI FTP Mode on AR28、AR46 Series Routers

Two modes are available: one is that the router serves as FTP server and the other is that the router serves as FTP client.

Upgrade method when the router serves as the FTP server is introduced as follows.



Step 1: Configure the FTP account on the router and enable the FTP server service.

Current router prompt view	Configuration commands to be entered in turn with importance ones highlighted in red	Brief description
[Quidway]	ftp server enable	Enable the FTP server
[Quidway]	local-user aaa password simple aaa	Configure the local account aaa/aaa
[Quidway]	local-user aaa service-type ftp	Configure the service type of aaa to FTP
[Quidway]	interface Ethernet 0/0	
[Quidway-Ethernet0/0]	ip address 1.1.1.1 8	Configure the interface address

Step 2: FTP to the router from the PC to upload the version.

Procedure:

1. Select **Start > Run** in Windows and input **cmd** to open the DOS command prompt window.
 2. Switch the current path to the directory where the version file is located.
 3. **ftp 1.1.1.1** (here, 1.1.1.1 is the IP address of the router), FTP to the router.
Input the user name **aaa** and input the password **aaa**
 4. `get vrpcfg.cfg /Download the configuration file for backup/`
 5. `bin /Change the transmission mode to binary/`
 6. `hash /Show the transmission progress/`
 7. `put AR28-VRP340-R0006-907-128-a.bin 340-0006.bin`
/*****Source file name Destination file name *****/
Other commands:
`get //Download the version file from the router to the PC and save it in the directory displayed by lcd.`
`put vrpcfg.cfg //Upload the configuration file.`
 8. In the case of accidental interruption in the transmission, do not reboot the router. Here, you need to add an FTP user and repeat the operation from step 1.
 9. After the version is uploaded, the router will write the version to FLASH.
Ftp server is currently writing to flash , please wait...
\
Ftp server writing to flash is done.
- Operation procedure:

```

命令提示符
226 Transfer complete.
ftp: 8695261 bytes sent in 5.31Seconds 1638.14Kbytes/sec.
ftp> bye
221 Server closing.

C:\tmp>

```

FTP upgrade procedure

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命令提示符
C:\tmp>ftp 1.1.1.1
Connected to 1.1.1.1.
220 FTP service ready.
User (1.1.1.1:(none)): aaa
331 Password required for aaa.
Password:
230 User logged in.
ftp> dir
200 Port command okay.
150 Opening ASCII mode data connection for *.
-rwxr-xr-x 1 noone nogroup 8695296 Dec 21 11:29 main.bin
-rwxr-xr-x 1 noone nogroup 450 Dec 24 14:08 wrpcfg.cfg
-rwxr-xr-x 1 noone nogroup 5746199 Dec 22 14:47 330-0008.bin
226 Transfer complete.
ftp: 201 bytes received in 0.00Seconds 201000.00Kbytes/sec.
ftp> get wrpcfg.cfg
200 Port command okay.
150 Opening ASCII mode data connection for wrpcfg.cfg.
226 Transfer complete.
ftp: 450 bytes received in 0.00Seconds 450000.00Kbytes/sec.
ftp> bin
200 Type set to I.
ftp> hash
Hash mark printing On ftp: (2048 bytes/hash mark) .
ftp> put AR28-URP340-R0006-907-128-a.bin 340-0006.bin
200 Port command okay.
150 Opening BINARY mode data connection for 340-0006.bin.

```

FTP upgrade completion

Step 3: Set version for the next boot and reboot the system.

View files in the Flash and confirm the version is correctly uploaded.

<Quidway>dir

Directory of flash:/

```

0 -rw- 8695296 Dec 21 2004 11:29:19 main.bin
1 -rw- 8695261 Dec 24 2004 10:09:56 340-0006.bin
2 -rw- 5746199 Dec 22 2004 14:47:37 330-0008.bin

```

Set the version for the next boot.

[Quidway]boot main 340-0006.bin

Set main boot file successfully!

Reboot the system.

<Quidway>reboot

This command will reboot the system. Since the current configuration may have changed, all changes may be lost if you continue. Continue? [Y/N] y

[Verification]

After the system reboots, you need to view the version and confirm the version is upgraded successfully.

Starting at 0x1c00000...

```

*****
*
*

```

* Quidway Series Routers Boot ROM, V9.07 *

*

*

Copyright(C) 1997-2004 by HUAWEI TECH CO., LTD.

Compiled at 18:10:29 , Oct 14 2004.

Testing memory...OK!

128M bytes SDRAM

32768k bytes flash memory

Hardware Version is MTR 1.0

CPLD Version is CPLD 1.0

Press Ctrl-B to enter Boot Menu

The current starting file is main application file--flash:/340-0006.bin!

The main application file is self-

decompressing.....

..

.....OK!

System is starting...

Starting at 0x10000...

User interface Con 0 is available.

Press ENTER to get started.

<Quidway>disp ver

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Without the owner's prior written consent, no decompiling

nor reverse-engineering shall be allowed.

Huawei-3Com Versatile Routing Platform Software

VRP(R) software, Version 3.40, Release 0006

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Quidway AR28-31 uptime is 0 week, 0 day, 0 hour, 0 minute

CPU type: PowerPC 8245 300MHz

128M bytes SDRAM Memory

32M bytes Flash Memory

128K bytes NvRAM Memory

Pcb Version:1.0

Logic Version:1.0

BootROM Version:9.07

[SLOT 0] 2FE (Hardware)2.1, (Driver)2.0, (Cpld)0.0

[SLOT 1] 2SA (Hardware)1.1, (Driver)1.5, (Cpld)0.0