

VRP Operating System Image Management



Foreword

Effective network administration and management within an enterprise network relies on all devices maintaining backup files in the event of system failures or other events that may result in loss of important systems files and data. Remote servers that use the file transfer protocol (FTP) service are often used to ensure files are maintained for backup and retrieval purposes as and when needed. The means for establishing communication with such application services is introduced in this section.



Objectives

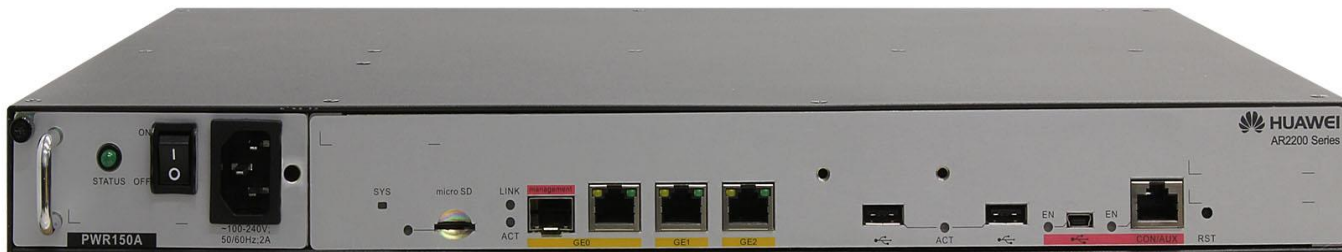
Upon completion of this section, trainees will be able to:

- Explain the importance of maintaining up-to-date versions of VRP.
- Establish a client relationship with an FTP server.
- Successfully upgrade a VRP system image.

Upgrading the VRP Image

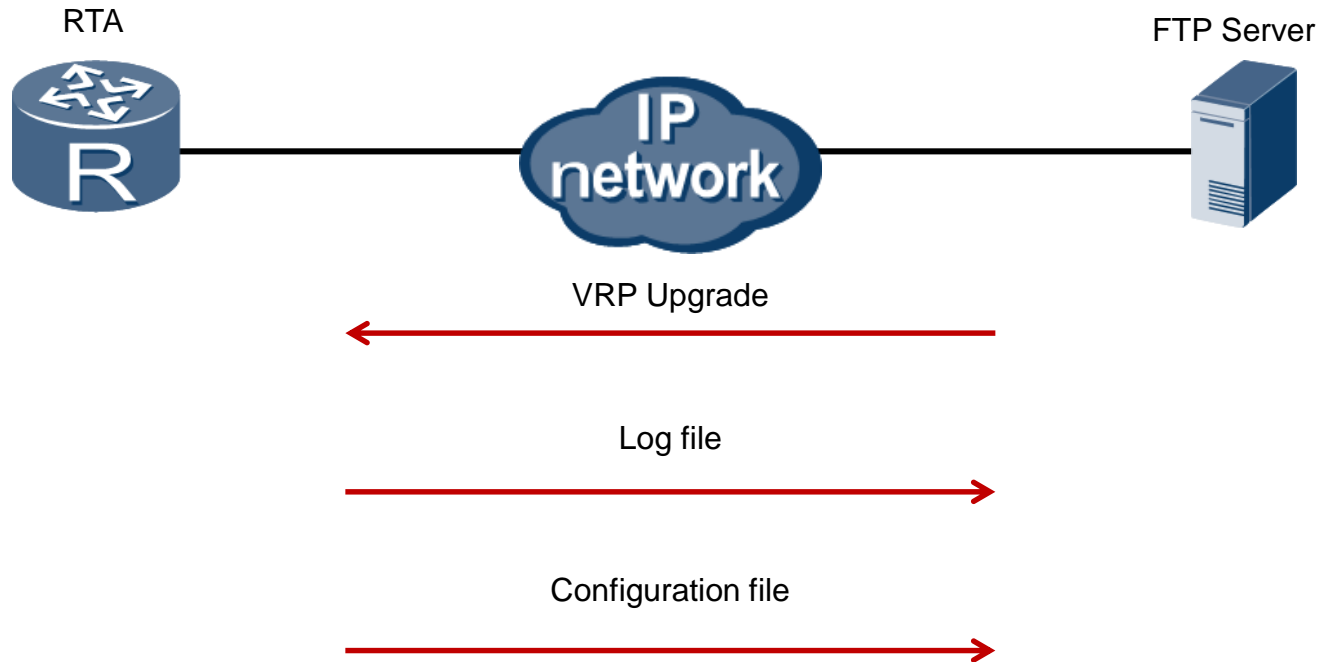
VRP Version 5.90
Product V200R001C00

VRP Version 5.160
Product V200R007C00



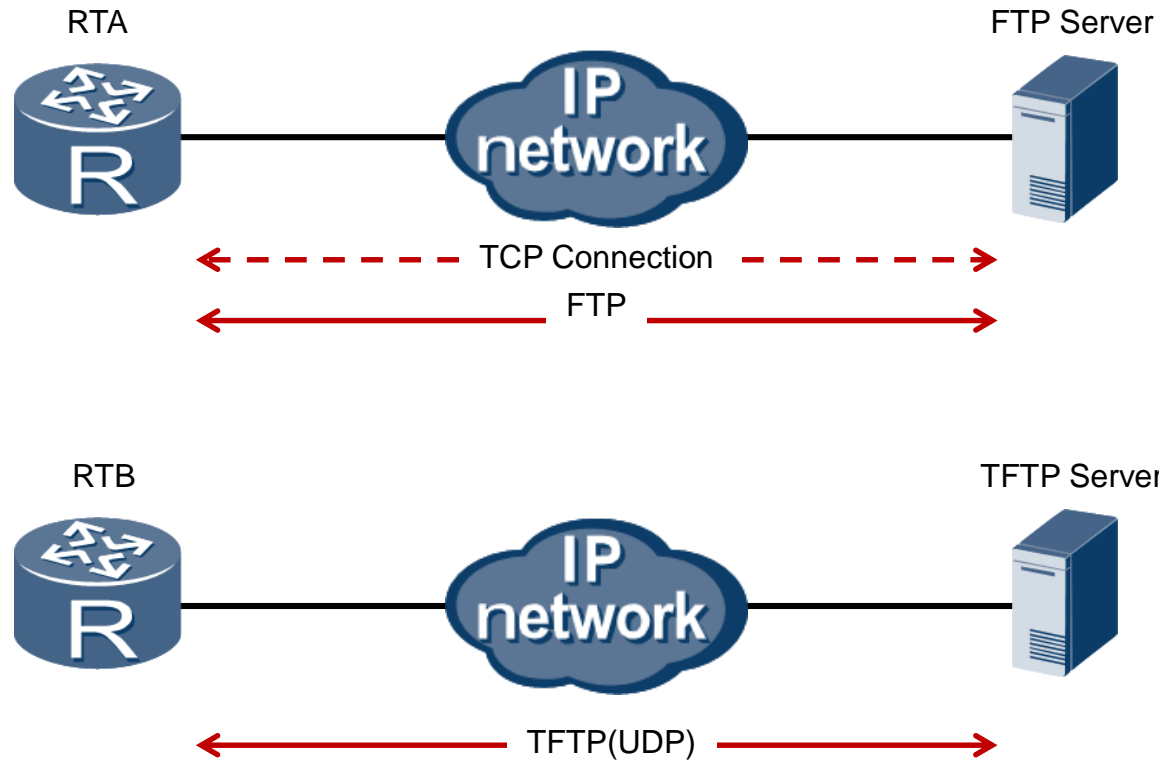
- New version upgrades may sometimes be required to support new features and updates to the versatile routing platform (VRP).

File Transfer



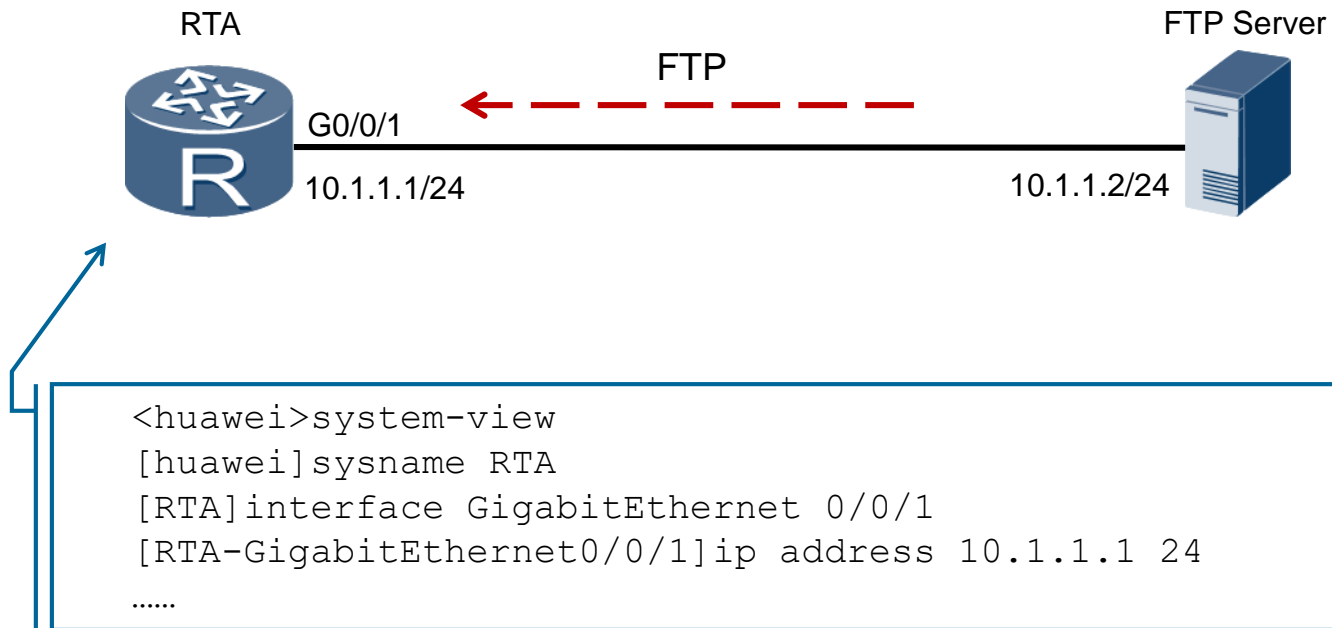
- File transfer may be used to retrieve VRP image files, as well as backup log and configuration files.

File Transfer Methods

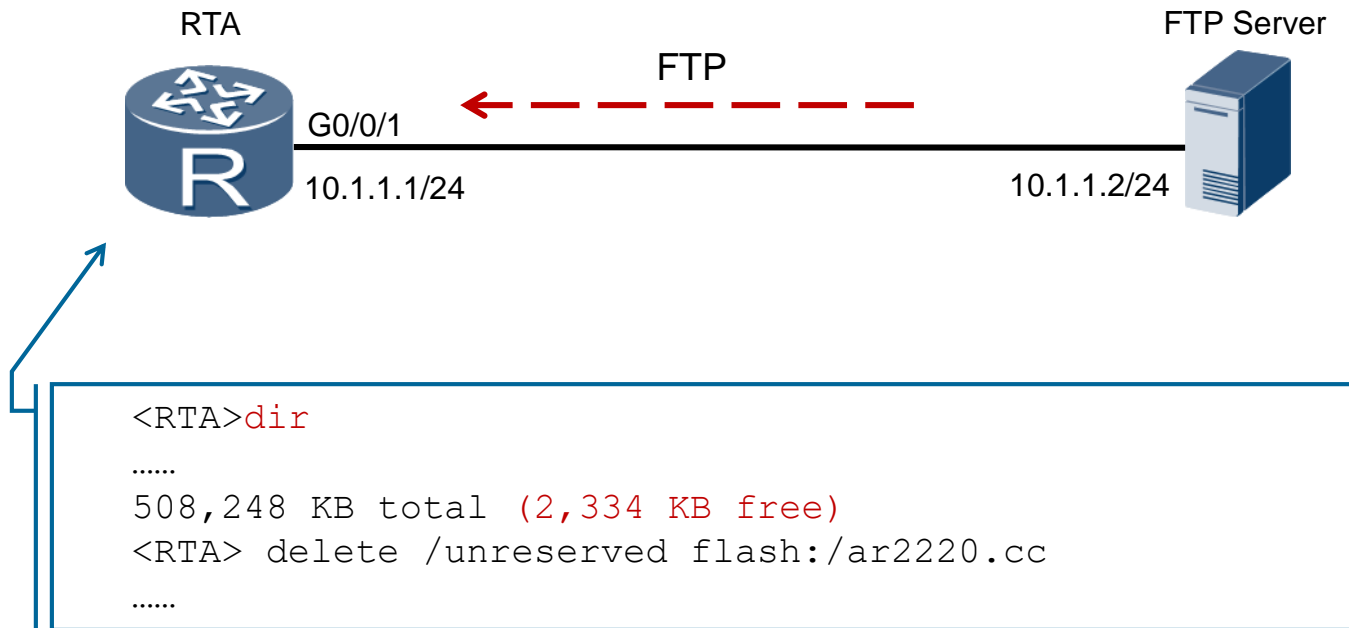


- Common forms of file transfer include FTP and TFTP, that respectively vary in the transport layer protocols used.

VRP Upgrade Process

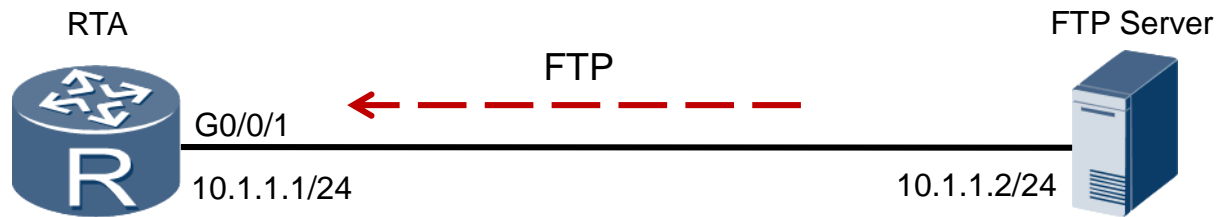


Storage Space Availability



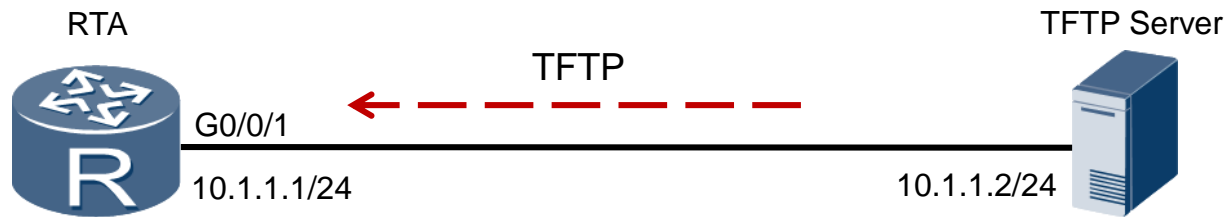
- Where the storage capacity is inadequate for image transfer, older images and files can be removed.

Retrieving Files from an FTP Server



```
<RTA>ftp 10.1.1.2
Trying 10.1.1.2 ...
Press CTRL+K to abort
Connected to 10.1.1.2.
220 FTP service ready.
User(10.1.1.2:(none)):huawei
331 Password required for huawei.
Enter password:
230 User logged in.
[ftp]get vrp.cc
```

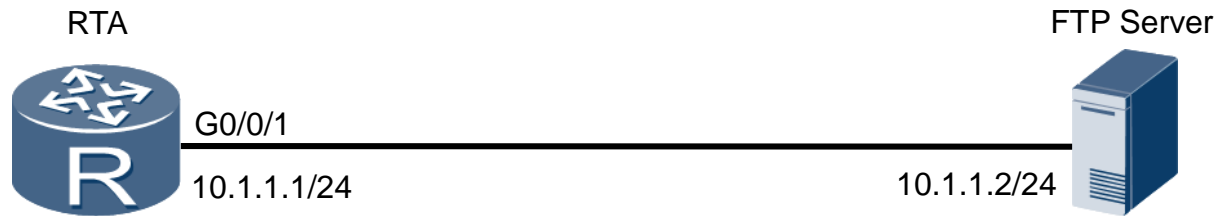
Retrieving Files from a TFTP Server



```
<RTA>tftp 10.1.1.2 get AR2220E-V200R007C00SPC600.cc
```

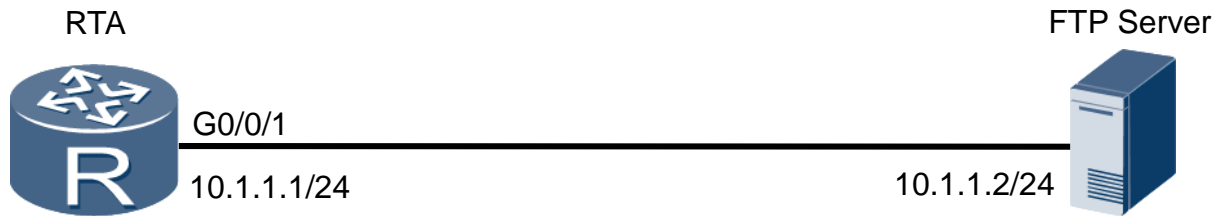
- A single command including the destination IP address is used to retrieve files from a TFTP server.

VRP Boot Management Process



```
<RTA>startup system-software vrp.cc
Info: Succeeded in setting the software for booting system
<RTA>display startup
MainBoard:
  Configured startup system software:      flash:/ar2220.cc
  Startup system software:                  flash:/ar2220.cc
  Next startup system software:             vrp.cc
  Startup saved-configuration file:         NULL
  Next startup saved-configuration file:    NULL
.....
```

Applying the Changes



```
<RTA>reboot
Info: The system is now comparing the configuration, please
wait.
Warning: All the configuration will be saved to the
configuration file for the next startup, Continue?[Y/N]:n
System will reboot! Continue?[Y/N]:y
```

- The system must be restarted before the new image can take effect.



Summary

- What should be configured on the client in order to establish a connection with an FTP server?
- How can a user confirm that changes to the startup software have taken effect after a reboot of the device?



Thank you

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