

一 实验需求

本案例适用小贝优选所有系列防火墙

根据现场实际需求，需要将防火墙进行升级到新版本。

注：升级过程中不要中途对设备断电！！

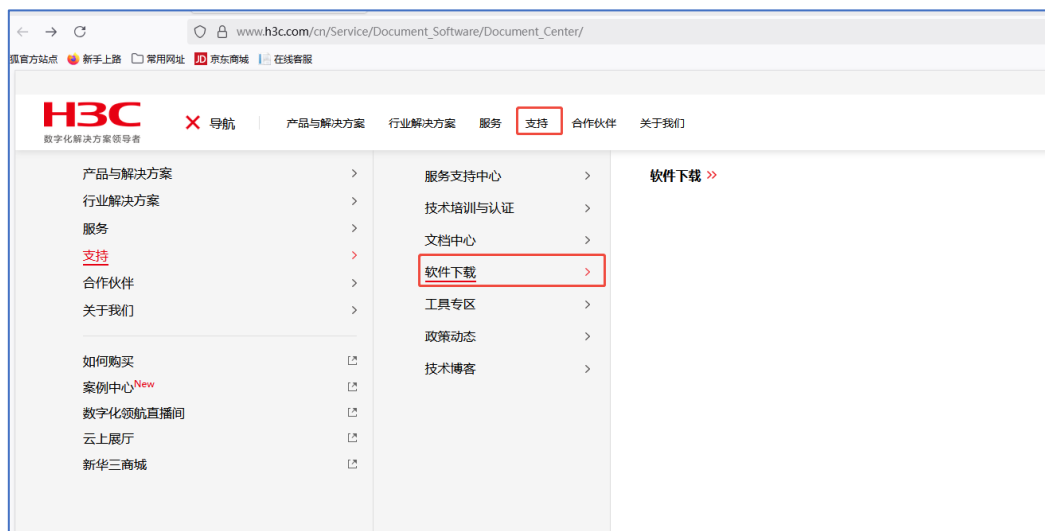
二 组网图

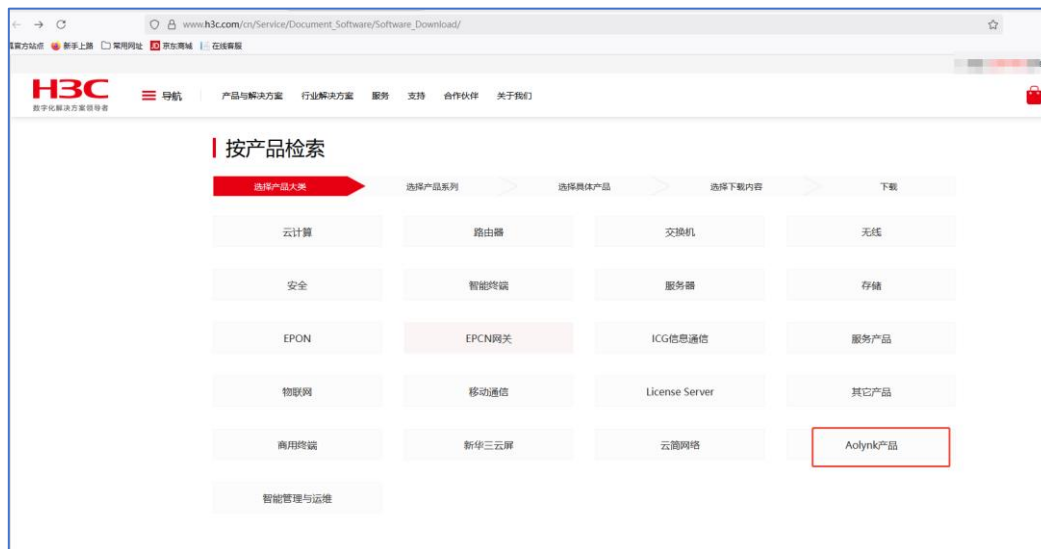
无

三 升级准备

3.1 下载需要的版本（请根据自己的型号准确下载版本）

#登陆 www.h3c.com.cn 后点击 “产品支持与服务” - “软件下载”，然后在按产品检索里面选择- “Aolynk 产品”





在里面找到自己对应的版本下载，下载 zip 文件，之后要解压



防火墙有两种文件，一种是 ipse 文件，一种 bin 文件，选择其中一种下载即可，本案例以 ipse 文件为例



解压之后的文件：

SECPATH1010F_WINET...			搜索"SECPATH1010F_WINET-CMW710-R9900P27..."
名称	修改日期	类型	
SECPATH1010F_WINET-CMW710-R9900P2703.ipe	2025/8/26 4:46	IPE 文件	

3.2 命令行登陆设备并将文件上传至设备 flash

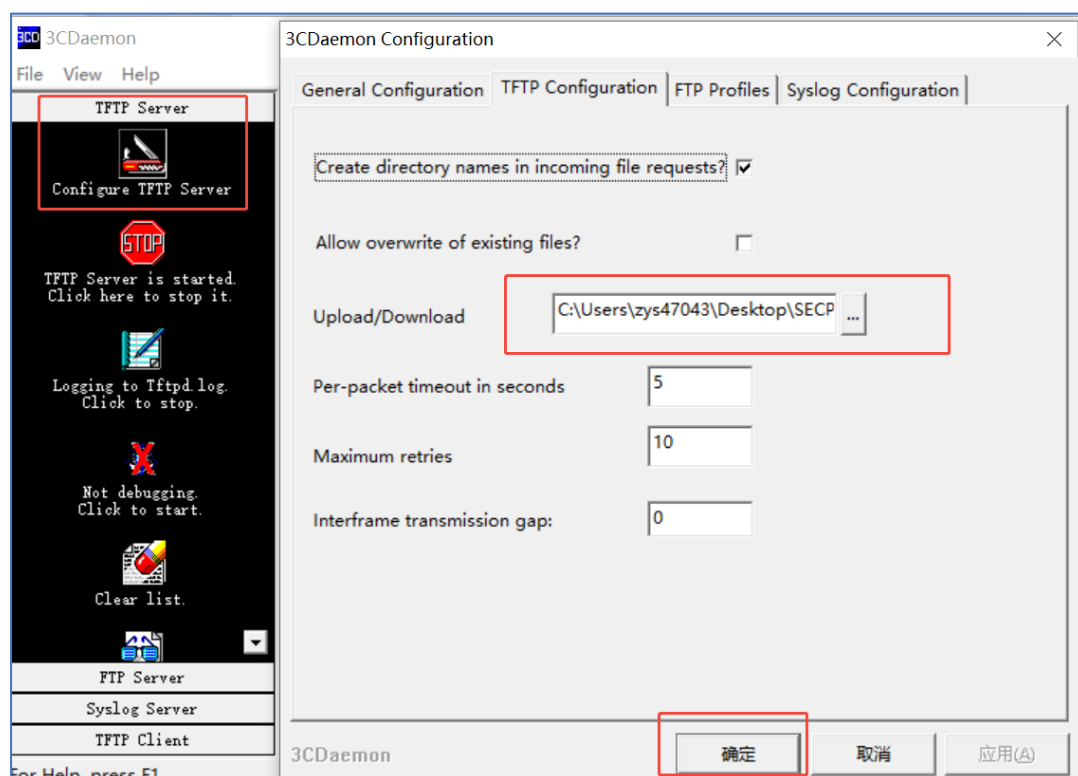
#本案例使用 3CD 软件，选择 TFTP 方式上传版本文件（电脑防火墙注意关闭）



3CDaemon.rar

3CDaemon				
File View Help				
Configure TFTP Server STOP TFTP Server is started. Click here to stop it. Logging to Tftpd.log. Click to stop. Not debugging. Click to start.	Start Time	Peer	Bytes	Status
	Sep 10, 2025 14:09:36	local	0	Listening for TFTP requests on IP address: 10.10.129.21, Port 69
	Sep 10, 2025 14:09:36	local	0	Listening for TFTP requests on IP address: 169.254.68.90, Port 69
	Sep 10, 2025 14:09:36	local	0	Listening for TFTP requests on IP address: 172.16.0.2, Port 69
	Sep 10, 2025 14:09:36	local	0	Listening for TFTP requests on IP address: 192.168.1.20, Port 69

#选择您需要导入的升级文件的路径



#在设备出厂前，管理口 0 口的 IP 地址为 192.168.0.1/24。可将电脑直连此接口上，并设置相同网段的 IP 地址。（本案例电脑未使用 G0 接口，只要确保设备与文件服务器路由可达。）



```
C:\Users\zys- >ping 192.168.10.1

正在 Ping 192.168.10.1 具有 32 字节的数据:
来自 192.168.10.1 的回复: 字节=32 时间=1ms TTL=255
来自 192.168.10.1 的回复: 字节=32 时间=1ms TTL=255

192.168.10.1 的 Ping 统计信息:
    数据包: 已发送 = 2, 已接收 = 2, 丢失 = 0 (0% 丢失),
    往返行程的估计时间(以毫秒为单位):
        最短 = 1ms, 最长 = 1ms, 平均 = 1ms
Control-C
```

#在命令行配置界面的用户视图下，执行 dir 命令查看设备当前的文件系统，确认启动文件及配置文件名，以及 Flash 的剩余空间，保证 Flash 有足够空间放入新的启动文件

<H3C>dir //查看空余空间够不够，空余空间要大于.IPE 文件大小

```
<H3C>dir
Directory of flash: (YAFFS2)
 0 drw-          - Sep 17 2025 13:43:01  SecpCount
 1 drw-          - Sep 11 2025 16:22:46  WEB
 2 -rw-          0 Sep 11 2025 15:23:40  autonet_topo.dba
 3 -rw-          256 Sep 11 2025 15:21:54  cmtnlmgr.data
 4 -rw-          513751 Sep 17 2025 13:41:32  defaultfile.zip
 5 drw-          - Sep 11 2025 15:21:53  diagfile
 6 drw-          - Sep 11 2025 15:29:36  dpi
 7 -rw-          8266752 Nov 06 2024 11:49:40  f1010fw-cmw710-boot-R9590P18.bin
 8 -rw-          116690944 Nov 06 2024 11:50:44  f1010fw-cmw710-system-R9590P18.bin
 9 -rw-          6528000 Sep 05 2023 13:43:25  f1010telecomfw-cmw710-secescan-R8460P31.bin
10 -rw-          10095616 Sep 04 2025 11:17:13  f1010xiaobeifw-cmw710-boot-R9900P2702.bin
11 -rw-          121851904 Sep 04 2025 11:18:13  f1010xiaobeifw-cmw710-system-R9900P2702.bin
12 -rw-          991 Sep 11 2025 15:23:40  hostkey
13 -rw-          401 Sep 11 2025 15:24:41  ifindex.dat
14 drw-          - Sep 11 2025 15:23:52  lb
15 -rw-          111720 Sep 17 2025 13:43:38  lbispinfo_v1.5.tp

16 drw-          - Aug 04 2023 01:26:36  license
17 drw-          - Sep 11 2025 15:19:25  logfile
18 drw-          - Sep 11 2025 15:23:06  pki
19 drw-          - Sep 11 2025 15:21:53  seclog
20 -rw-          847 Sep 11 2025 15:23:40  serverkey
21 -rw-          4838 Sep 11 2025 15:24:41  startup.cfg
22 -rw-          311003 Sep 17 2025 13:43:53  startup.mdb
23 -rw-          0 Sep 17 2025 13:43:34  topology.dba
24 -rw-          10 Sep 11 2025 15:22:00  userloginInfo.dat
25 drw-          - Sep 11 2025 15:22:55  versionInfo
26 drw-          - Sep 11 2025 15:26:25  webdownload
27 drw-          - Sep 11 2025 15:26:25  webupload

524288 KB total (261700 KB free) remaining 49.91%)
```

#在命令行配置界面的用户视图下，执行 tftp get 命令将启动文件 main.ipe 导入到设备的 Flash 中：

<H3C>tftp 192.168.10.20 get main.ipe (main.ipe 就是指解压之后的文件名)

```
<H3C>tftp 192.168.10.20 get SECPATH1010F_WINET-CMW710-R9900P2703.ipe
Press CTRL+C to abort.
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload    Total   Spent    Left   Speed
100 125M 100 125M    0     0  791k      0  0:02:42  0:02:42  --:--:--  787k
Writing file...Done.
```

等上传进度条跑完，再次 dir 查看 flash 里面有没有导入文件，同时确认一下文件的大小和电脑侧显示一致

```
<H3C>dir
Directory of flash: (YAFFS2)
 0 -rw-      131924992 Sep 17 2025 14:27:12 SECPATH1010F WINET-CMW710-R9900P2703.ipe
 1 drw-      - Sep 17 2025 13:43:01 SecpCount
 2 drw-      - Sep 17 2025 14:14:30 WEB
 3 -rw-      0 Sep 11 2025 15:23:40 autonet_topo.dba
 4 -rw-      256 Sep 11 2025 15:21:54 cmtnlmgr.data
 5 -rw-      513751 Sep 17 2025 13:41:32 defaultfile.zip
 6 drw-      - Sep 11 2025 15:21:53 diagfile
 7 drw-      - Sep 11 2025 15:29:36 dpi
 8 -rw-      8266752 Nov 06 2024 11:49:40 f1010fw-cmw710-boot-R9590P18.bin
 9 -rw-      116690944 Nov 06 2024 11:50:44 f1010fw-cmw710-system-R9590P18.bin
10 -rw-      6528000 Sep 05 2023 13:43:25 f1010telecomfw-cmw710-secescan-R8460P31.bin
11 -rw-      10095616 Sep 04 2025 11:17:13 f1010xiaobeifw-cmw710-boot-R9900P2702.bin
12 -rw-      121851904 Sep 04 2025 11:18:13 f1010xiaobeifw-cmw710-system-R9900P2702.bin
13 -rw-      991 Sep 11 2025 15:23:40 hostkey
```

指定新版本文件作为下次启动文件

#在命令行配置界面的用户视图下，执行 boot-loader 命令设置设备下次启动使用的启动文件为 main.ipe，并指定启动文件类型为 main：

<H3C>boot-loader file flash:/main.ipe all main (main.ipe 就是指解压之后的文件名)

```
<H3C>boot-loader file flash:/SECPATH1010F WINET-CMW710-R9900P2703.ipe all main
Verifying the file flash:/SECPATH1010F WINET-CMW710-R9900P2703.ipe on slot 1.....Done.
H3C SecPath F100 images in IPE:
  f1010xiaobeifw-cmw710-boot-R9900P2703.bin
  f1010xiaobeifw-cmw710-system-R9900P2703.bin
This command will set the main startup software images. Please do not reboot any MPU during the upgrade. Continue? [Y/N]:y
Add images to slot 1.
Decompressing file f1010xiaobeifw-cmw710-boot-R9900P2703.bin to flash:/f1010xiaobeifw-cmw710-boot-R9900P2703.bin...%Sep 17 14:30:00:334 2025 H3C XMLCFG/6/WEB_AGENT_TIMEOUT: user admin from 192.168.0.20, session id 1, idle timed out.
%Sep 17 14:30:00:379 2025 H3C SHELL/5/SHELL_LOGOUT: admin logged out from 192.168.0.20.
%Sep 17 14:30:00:394 2025 H3C WEB/5/LOGOUT: admin 192.168.0.20 .
...Done.
Decompressing file f1010xiaobeifw-cmw710-system-R9900P2703.bin to flash:/f1010xiaobeifw-cmw710-system-R9900P2703.bin.....%Sep 17 14:31:00:334 2025 H3C XMLCFG/6/WEB_AGENT_TIMEOUT: user admin from 192.168.10.20, session id 2, idle timed out.
%Sep 17 14:31:00:372 2025 H3C WEB/5/LOGOUT: admin 192.168.10.20 .
.....Done.
Verifying the file flash:/f1010xiaobeifw-cmw710-boot-R9900P2703.bin on slot 1...Done.
Verifying the file flash:/f1010xiaobeifw-cmw710-system-R9900P2703.bin on slot 1.....Done.
The images that have passed all examinations will be used as the main startup software images at the next reboot on slot 1.
Decompression completed.
Do you want to delete flash:/SECPATH1010F WINET-CMW710-R9900P2703.ipe now? [Y/N]:y
<H3C>%Sep 17 14:31:22:248 2025 H3C PKG/5/PKG_BOOTLOADER_FILE_SUCCESS: Executed the boot-loader file command successfully.
```

#在命令行配置界面的用户视图下，执行 display boot-loader 命令查看设备的启动程序文件信息

```
<H3C>dis boot-loader
Software images on slot 1:
Current software images:
  flash:/f1010xiaobeifw-cmw710-boot-R9900P2702.bin
  flash:/f1010xiaobeifw-cmw710-system-R9900P2702.bin
Main startup software images:
  flash:/f1010xiaobeifw-cmw710-boot-R9900P2703.bin
  flash:/f1010xiaobeifw-cmw710-system-R9900P2703.bin
Backup startup software images:
  flash:/f1010fw-cmw710-boot-R9590P18.bin
  flash:/f1010fw-cmw710-system-R9590P18.bin
```

重启设备完成升级

```
flash:/f1010fw-cmw710-system-R9590P18.bin
<H3C>reboot
Start to check configuration with next startup configuration file, please wait.....DONE!
Current configuration may be lost after the reboot, save current configuration? [Y/N]:y
Please input the file name(*.cfg) [flash:/startup.cfg]
(To leave the existing filename unchanged, press the enter key):
flash:/startup.cfg exists, overwrite? [Y/N]:y
Validating file. Please wait...
Saved the current configuration to mainboard device successfully.
This command will reboot the device. Continue? [Y/N]:y
Now rebooting, please wait...
%Sep 17 14:34:15:477 2025 H3C DEV/5/SYSTEM_REBOOT: System is rebooting now.
```

四 实验结果

#使用 dis version 查看版本，已经升级到我们下载的版本号即为成功，升级完成。

<Sysname> display version

```
<H3C>dis version
H3C Comware Software, Version 7.1.064, Release 9900P2703
Copyright (c) 2004-2025 New H3C Technologies Co., Ltd. All rights reserved.
H3C SecPath F100 uptime is 0 weeks, 0 days, 0 hours, 3 minutes
Last reboot reason: UserReboot

Boot image: flash:/f1010xiaobeifw-cmw710-boot-R9900P2703.bin
Boot image version: 7.1.064, Release 9900P2703
  Compiled Aug 04 2025 16:00:00
System image: flash:/f1010xiaobeifw-cmw710-system-R9900P2703.bin
System image version: 7.1.064, Release 9900P2703
  Compiled Aug 04 2025 16:00:00

SLOT 1
Uptime is 0 weeks, 0 days, 0 hours, 3 minutes
CPU type: Multi-core CPU
DDR3 SDRAM Memory      2032M bytes
Board PCB               Version:Ver.A
Basic BootWare          Version: 3.05
Extend BootWare         Version: 3.05
[SubSlot 0]12GE         (Hardware)Ver.A, (Driver)1.0
Boot Type: Warm
```