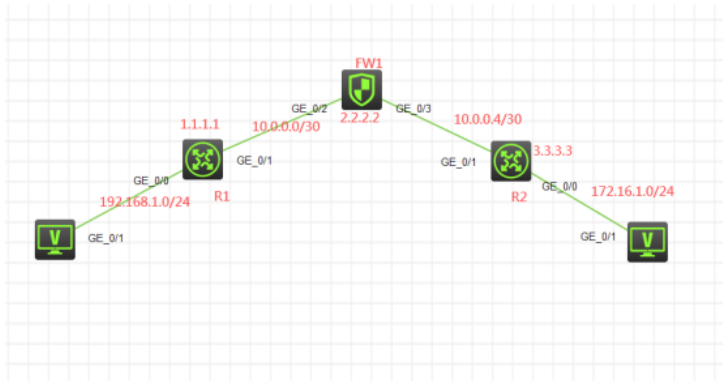


知 F1060路由模式典型组网配置案例4（静态路由）

设备部署方式 H3C模拟器 韦家宁 2020-03-29 发表

组网及说明



组网说明:

本案例采用H3C HCL模拟器的F1060防火墙来模拟防火墙路由模式的典型部署。为了实现PC之间能够相互通信，因此需要分别在R1、R2、FW1采用三层互联，同时FW1采用路由模式，最终实现PC之间能够相互PING通。

配置步骤

- 1、按照网络拓扑图正确配置IP地址
- 2、R1、FW1、R2之间采用三层互联
- 3、R1、FW1、R2之间采用静态路由协议实现互通。

配置关键点

R1:

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]sysname R1
[R1]int gi 0/0
[R1-GigabitEthernet0/0]ip address 192.168.1.1 24
[R1-GigabitEthernet0/0]quit
[R1]int gi 0/1
[R1-GigabitEthernet0/1]des <connect to FW1>
[R1-GigabitEthernet0/1]ip address 10.0.0.1 30
[R1-GigabitEthernet0/1]quit
[R1]int loopback 0
[R1-LoopBack0]ip address 1.1.1.1 32
[R1-LoopBack0]quit
[R1]ip route-static 0.0.0.0 0.0.0.0 10.0.0.2
```

R2:

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]sysname R2
[R2]int gi 0/0
[R2-GigabitEthernet0/0]ip address 172.16.1.1 24
[R2-GigabitEthernet0/0]quit
[R2]int gi 0/1
[R2-GigabitEthernet0/1]des <connect to FW1>
[R2-GigabitEthernet0/1]ip address 10.0.0.5 30
[R2-GigabitEthernet0/1]quit
[R2]int loopback 0
[R2-LoopBack0]ip address 3.3.3.3 32
[R2-LoopBack0]quit
[R2]ip route-static 0.0.0.0 0.0.0.0 10.0.0.6
```

FW1:

<H3C>sys

System View: return to User View with Ctrl+Z.

[H3C]sysname FW1

[FW1]acl basic 2002

[FW1-acl-ipv4-basic-2002]rule 0 permit source any

[FW1-acl-ipv4-basic-2002]quit

[FW1]

[FW1]zone-pair security source trust destination untrust

[FW1-zone-pair-security-Trust-Untrust]packet-filter 2002

[FW1-zone-pair-security-Trust-Untrust]quit

[FW1]

[FW1]zone-pair security source untrust destination trust

[FW1-zone-pair-security-Untrust-Trust]packet-filter 2002

[FW1-zone-pair-security-Untrust-Trust]quit

[FW1]

[FW1]zone-pair security source trust destination local

[FW1-zone-pair-security-Trust-Local]packet-filter 2002

[FW1-zone-pair-security-Trust-Local]quit

[FW1]

[FW1]zone-pair security source local destination trust

[FW1-zone-pair-security-Local-Trust]packet-filter 2002

[FW1-zone-pair-security-Local-Trust]quit

[FW1]

[FW1]zone-pair security source untrust destination local

[FW1-zone-pair-security-Untrust-Local]packet-filter 2002

[FW1-zone-pair-security-Untrust-Local]quit

[FW1]

[FW1]zone-pair security source local destination untrust

[FW1-zone-pair-security-Local-Untrust]packet-filter 2002

[FW1-zone-pair-security-Local-Untrust]quit

[FW1]

[FW1]zone-pair security source trust destination trust

[FW1-zone-pair-security-Trust-Trust]packet-filter 2002

[FW1-zone-pair-security-Trust-Trust]quit

[FW1]

[FW1]zone-pair security source untrust destination untrust

[FW1-zone-pair-security-Untrust-Untrust]packet-filter 2002

[FW1-zone-pair-security-Untrust-Untrust]quit

[FW1]int loopback 0

[FW1-LoopBack0]ip address 2.2.2.2 32

[FW1-LoopBack0]quit

[FW1]int gi 1/0/2

[FW1-GigabitEthernet1/0/2]des <connect to R1>

[FW1-GigabitEthernet1/0/2]ip address 10.0.0.2 30

[FW1-GigabitEthernet1/0/2]quit

[FW1]int gi 1/0/3

[FW1-GigabitEthernet1/0/3]des <connect to R2>

[FW1-GigabitEthernet1/0/3]ip address 10.0.0.6 30

[FW1-GigabitEthernet1/0/3]quit

[FW1]security-zone name Trust

[FW1-security-zone-Trust]import interface GigabitEthernet 1/0/2

[FW1-security-zone-Trust]import interface loopback 0

[FW1-security-zone-Trust]quit

[FW1]security-zone name Untrust

[FW1-security-zone-Untrust]import interface GigabitEthernet 1/0/3

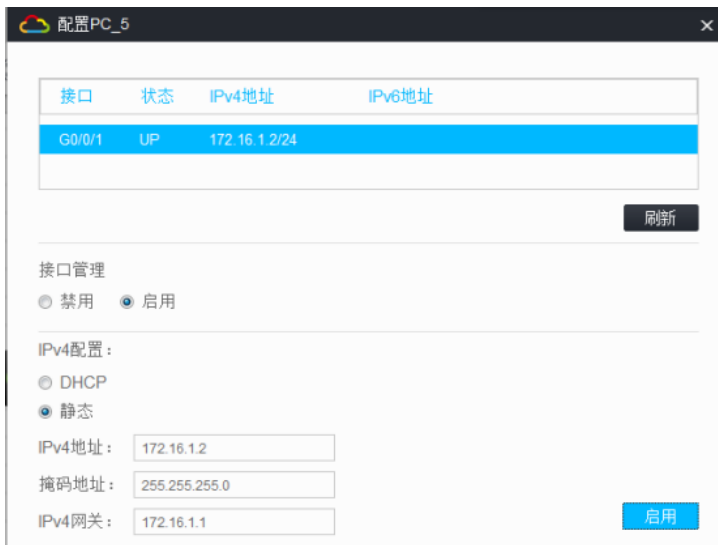
[FW1-security-zone-Untrust]quit

[FW1]ip route-static 192.168.1.0 255.255.255.0 10.0.0.1

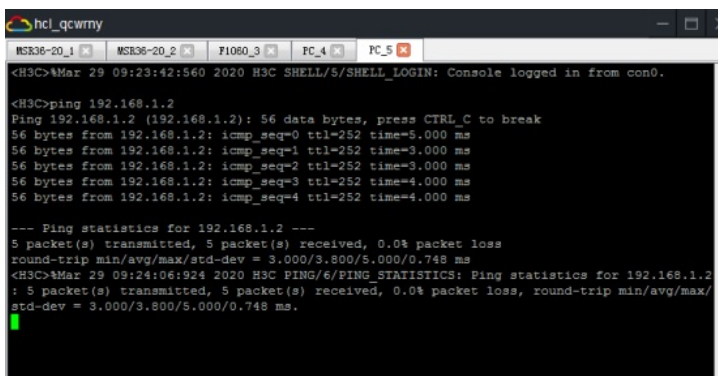
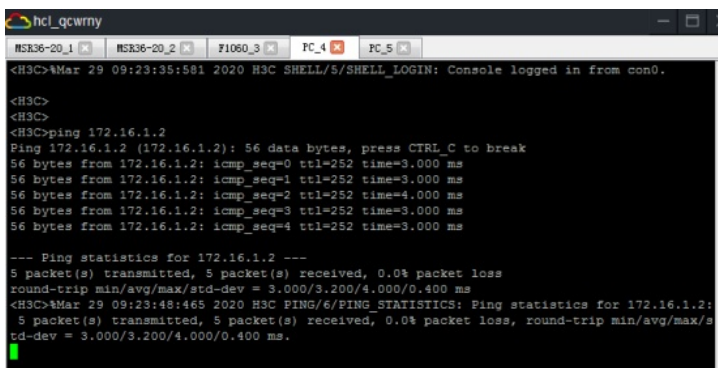
[FW1]ip route-static 172.16.1.0 255.255.255.0 10.0.0.5

测试:

PC都填写IP地址:



PC之间可以相互PING通:



分别查看R1、R2、FW1的路由表:

```
[R1]dis ip routing-table
Destinations : 18      Routes : 18

Destination/Mask    Proto  Pre Cost           NextHop             Interface
0.0.0.0/0           Static 60  0                10.0.0.2            GE0/1
0.0.0.0/32          Direct 0  0                127.0.0.1           InLoop0
1.1.1.1/32          Direct 0  0                127.0.0.1           InLoop0
10.0.0.0/30         Direct 0  0                10.0.0.1            GE0/1
10.0.0.0/32         Direct 0  0                10.0.0.1            GE0/1
10.0.0.1/32         Direct 0  0                127.0.0.1           InLoop0
10.0.0.3/32         Direct 0  0                10.0.0.1            GE0/1
127.0.0.0/8         Direct 0  0                127.0.0.1           InLoop0
127.0.0.0/32        Direct 0  0                127.0.0.1           InLoop0
127.0.0.1/32        Direct 0  0                127.0.0.1           InLoop0
127.255.255.255/32 Direct 0  0                127.0.0.1           InLoop0
192.168.1.0/24      Direct 0  0                192.168.1.1        GE0/0
192.168.1.0/32      Direct 0  0                192.168.1.1        GE0/0
192.168.1.1/32      Direct 0  0                127.0.0.1           InLoop0
192.168.1.255/32    Direct 0  0                192.168.1.1        GE0/0
224.0.0.0/4         Direct 0  0                0.0.0.0             NULL0
224.0.0.0/24        Direct 0  0                0.0.0.0             NULL0
255.255.255.255/32 Direct 0  0                127.0.0.1           InLoop0
[R1]
```

```
[R2]dis ip routing-table
Destinations : 18      Routes : 18

Destination/Mask    Proto  Pre Cost           NextHop             Interface
0.0.0.0/0           Static 60  0                10.0.0.6            GE0/1
0.0.0.0/32          Direct 0  0                127.0.0.1           InLoop0
3.3.3.3/32          Direct 0  0                127.0.0.1           InLoop0
10.0.0.4/30         Direct 0  0                10.0.0.5            GE0/1
10.0.0.4/32         Direct 0  0                10.0.0.5            GE0/1
10.0.0.5/32         Direct 0  0                127.0.0.1           InLoop0
10.0.0.7/32         Direct 0  0                10.0.0.5            GE0/1
127.0.0.0/8         Direct 0  0                127.0.0.1           InLoop0
127.0.0.0/32        Direct 0  0                127.0.0.1           InLoop0
127.0.0.1/32        Direct 0  0                127.0.0.1           InLoop0
127.255.255.255/32 Direct 0  0                127.0.0.1           InLoop0
172.16.1.0/24       Direct 0  0                172.16.1.1         GE0/0
172.16.1.0/32       Direct 0  0                172.16.1.1         GE0/0
172.16.1.1/32       Direct 0  0                127.0.0.1           InLoop0
172.16.1.255/32     Direct 0  0                172.16.1.1         GE0/0
224.0.0.0/4         Direct 0  0                0.0.0.0             NULL0
224.0.0.0/24        Direct 0  0                0.0.0.0             NULL0
255.255.255.255/32 Direct 0  0                127.0.0.1           InLoop0
[R2]
```

```
[FW1]dis ip routing-table
Destinations : 19      Routes : 19

Destination/Mask    Proto  Pre Cost           NextHop             Interface
0.0.0.0/32          Direct 0  0                127.0.0.1           InLoop0
2.2.2.2/32          Direct 0  0                127.0.0.1           InLoop0
10.0.0.0/30         Direct 0  0                10.0.0.2            GE1/0/2
10.0.0.0/32         Direct 0  0                10.0.0.2            GE1/0/2
10.0.0.2/32         Direct 0  0                127.0.0.1           InLoop0
10.0.0.3/32         Direct 0  0                10.0.0.2            GE1/0/2
10.0.0.4/30         Direct 0  0                10.0.0.6            GE1/0/3
10.0.0.4/32         Direct 0  0                10.0.0.6            GE1/0/3
10.0.0.6/32         Direct 0  0                127.0.0.1           InLoop0
10.0.0.7/32         Direct 0  0                10.0.0.6            GE1/0/3
127.0.0.0/8         Direct 0  0                127.0.0.1           InLoop0
127.0.0.0/32        Direct 0  0                127.0.0.1           InLoop0
127.0.0.1/32        Direct 0  0                127.0.0.1           InLoop0
127.255.255.255/32 Direct 0  0                127.0.0.1           InLoop0
172.16.1.0/24       Static 60  0                10.0.0.5            GE1/0/3
192.168.1.0/24      Static 60  0                10.0.0.1            GE1/0/2
224.0.0.0/4         Direct 0  0                0.0.0.0             NULL0
224.0.0.0/24        Direct 0  0                0.0.0.0             NULL0
255.255.255.255/32 Direct 0  0                127.0.0.1           InLoop0
[FW1]
```

至此，F1060路由模式典型组网配置案例4（静态路由）已完成！