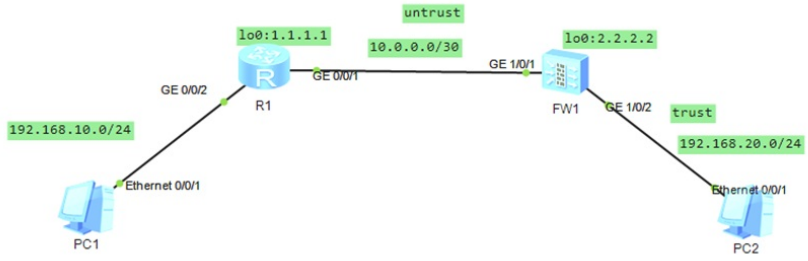
【MVS】华为防火墙路由模式典型组网配置案例-静态路由

网络相关 韦家宁 2024-09-13 发表

组网及说明



组网说明：

本案例采用ENSP模拟器的防火墙来部署路由模式的典型配置，安全域在网络拓扑图中已经有了明确的标识，全网通过静态路由协议实现PC之间的互通。

配置思路：

1、按照网络拓扑图配置IP地址和静态路由。

2、配置防火墙的安全域和安全策略。

配置步骤

R1：

```
<Huawei>u t m
Info: Current terminal monitor is off.
<Huawei>u t d
Info: Current terminal debugging is off.
<Huawei>system
Enter system view, return user view with Ctrl+Z.
[Huawei]sysname R1
[R1]int gi 0/0/2
[R1-GigabitEthernet0/0/2]ip address 192.168.10.1 24
[R1-GigabitEthernet0/0/2]quit
[R1]int gi 0/0/1
[R1-GigabitEthernet0/0/1]ip address 10.0.0.1 30
[R1-GigabitEthernet0/0/1]quit

[R1]ip route-static 192.168.20.0 24 10.0.0.2
```

FW1：

```
<USG6000V1>u t m
Info: Current terminal monitor is off.
<USG6000V1>u t d
Info: Current terminal debugging is off.
<USG6000V1>system
Enter system view, return user view with Ctrl+Z.
[USG6000V1]sysname FW1
[FW1]int gi 1/0/1
[FW1-GigabitEthernet1/0/1]ip address 10.0.0.2 30
[FW1-GigabitEthernet1/0/1]quit
[FW1]int gi 1/0/2
[FW1-GigabitEthernet1/0/2]ip address 192.168.20.1 24
[FW1-GigabitEthernet1/0/2]quit

[FW1]ip route-static 192.168.10.0 24 10.0.0.1

[FW1]firewall zone trust
[FW1-zone-trust]add int gi 1/0/2
[FW1-zone-trust]quit
```

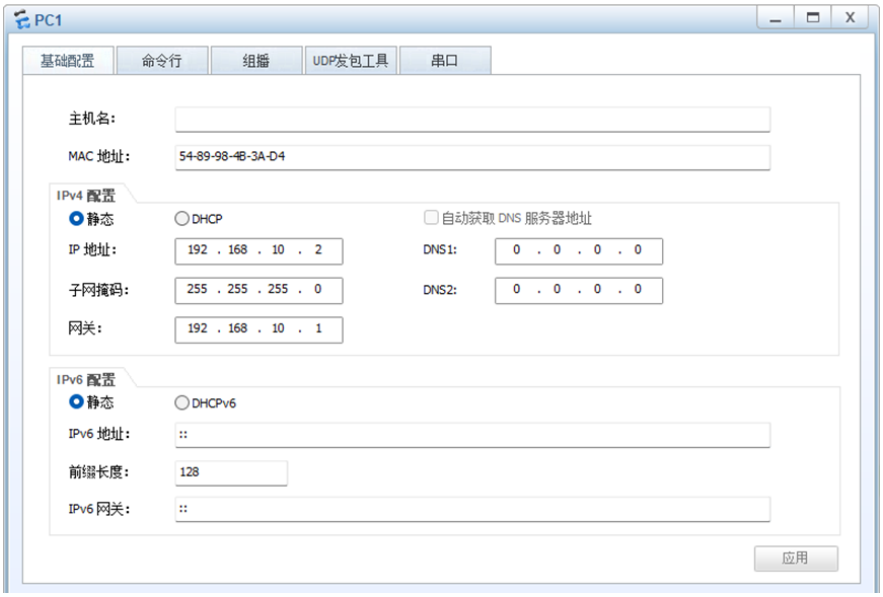
```
[FW1]firewall zone untrust
[FW1-zone-untrust]add int gi 1/0/1
[FW1-zone-untrust]quit
[FW1]security-policy
[FW1-policy-security]default action permit
Warning:Setting the default packet filtering to permit poses security risks. You
 are advised to configure the security policy based on the actual data flows. Ar
e you sure you want to continue?[Y/N]y
[FW1-policy-security]quit
```

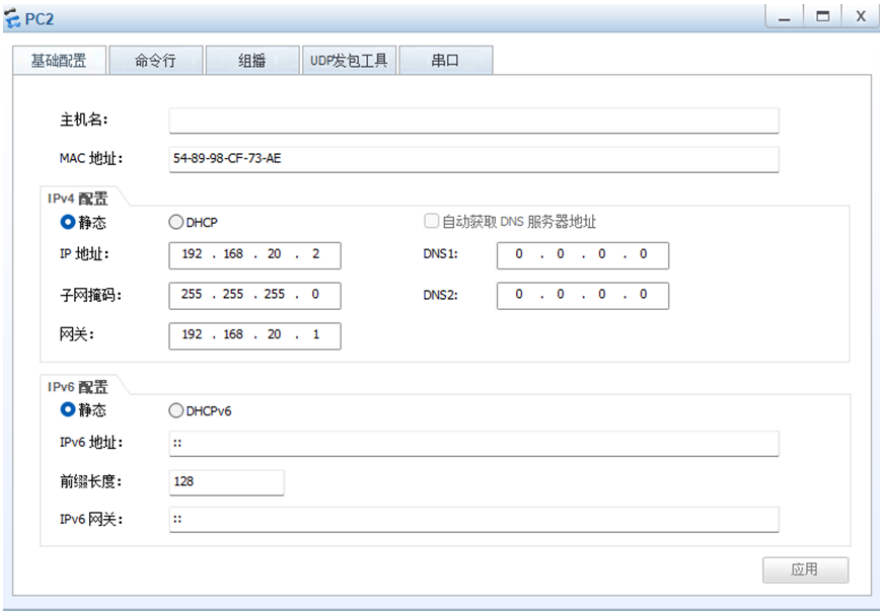
使用dis ip routing-table命令查看FW1和R1的路由表，均能学习到对端传递过来的路由。

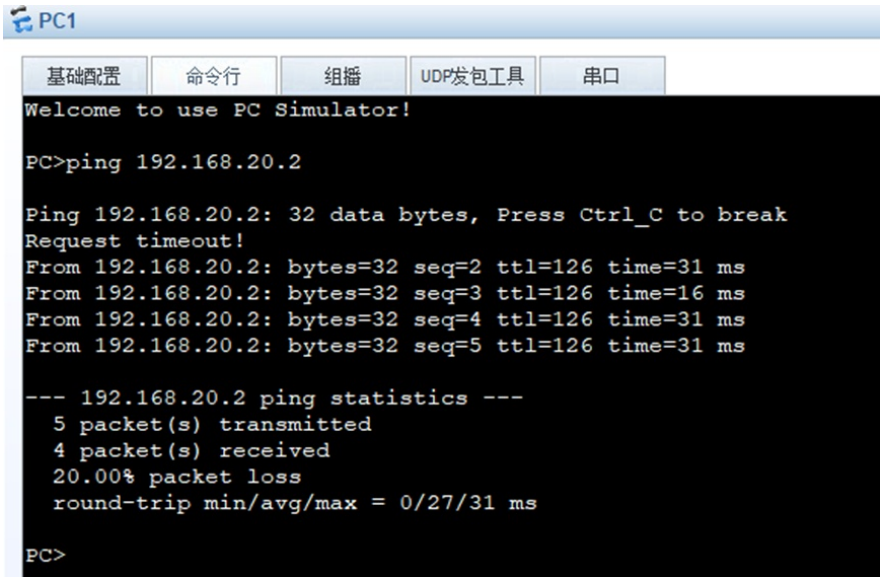
```
[FW1]dis ip routing-table
2024-09-13 05:57:13.220
Route Flags: R - relay, D - download to fib
------------------------------------------------------------------------------
Routing Tables: Public
         Destinations : 8        Routes : 8

Destination/Mask    Proto   Pre  Cost      Flags NextHop         Interface

        2.2.2.2/32  Direct  0    0           D   127.0.0.1       LoopBack0
       10.0.0.0/30  Direct  0    0           D   10.0.0.2        GigabitEthernet
1/0/1
       10.0.0.2/32  Direct  0    0           D   127.0.0.1       GigabitEthernet
1/0/1
      127.0.0.0/8   Direct  0    0           D   127.0.0.1       InLoopBack0
      127.0.0.1/32  Direct  0    0           D   127.0.0.1       InLoopBack0
   192.168.10.0/24  Static  60   0          RD   10.0.0.1        GigabitEthernet
1/0/1
   192.168.20.0/24  Direct  0    0           D   192.168.20.1    GigabitEthernet
1/0/2
   192.168.20.1/32  Direct  0    0           D   127.0.0.1       GigabitEthernet
1/0/2
```

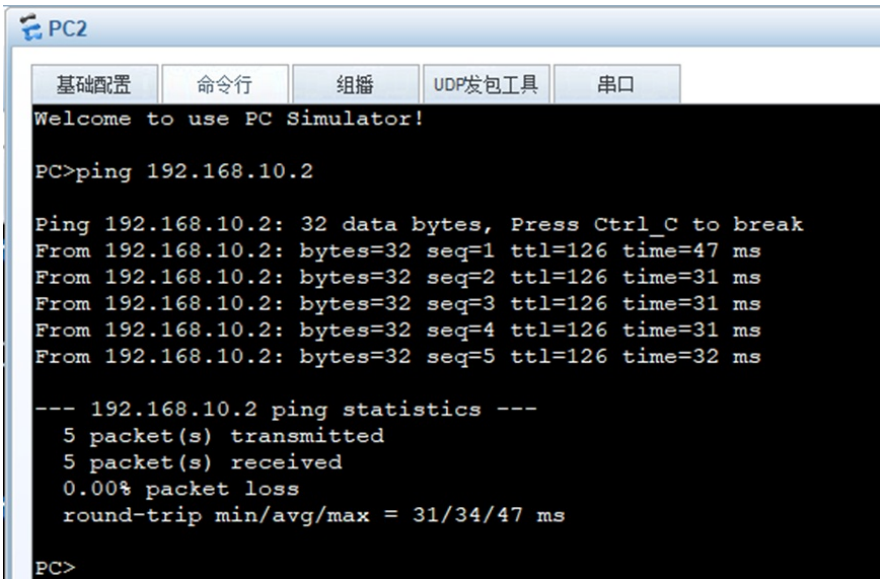
```
[R1]dis ip routing-table
Route Flags: R - relay, D - download to fib
------------------------------------------------------------------------------
Routing Tables: Public
         Destinations : 8        Routes : 8

Destination/Mask    Proto   Pre  Cost      Flags NextHop         Interface

        1.1.1.1/32  Direct  0    0           D   127.0.0.1       LoopBack0
       10.0.0.0/30  Direct  0    0           D   10.0.0.1        GigabitEthernet
0/0/1
       10.0.0.1/32  Direct  0    0           D   127.0.0.1       GigabitEthernet
0/0/1
      127.0.0.0/8   Direct  0    0           D   127.0.0.1       InLoopBack0
      127.0.0.1/32  Direct  0    0           D   127.0.0.1       InLoopBack0
   192.168.10.0/24  Direct  0    0           D   192.168.10.1    GigabitEthernet
0/0/2
   192.168.10.1/32  Direct  0    0           D   127.0.0.1       GigabitEthernet
0/0/2
   192.168.20.0/24  Static  60   0          RD   10.0.0.2        GigabitEthernet
0/0/1
```

PC分别填写IP地址，且能相互PING通。









至此，华为防火墙路由模式典型组网配置案例（静态路由）已完成！