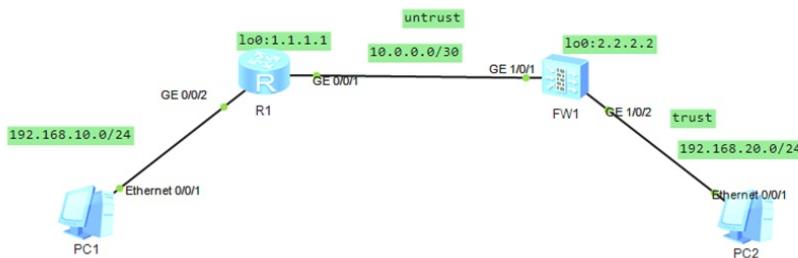




【MVS】华为防火墙路由模式典型组网配置案例-静态路由

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]
[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。



PC2

基础配置	命令行	组播	UDP发包工具	串口
主机名:				
MAC 地址:	54-89-98-CF-73-AE			
IPv4 配置				
<input checked="" type="radio"/> 静态	<input type="radio"/> DHCP	<input type="checkbox"/> 自动获取 DNS 服务器地址		
IP 地址:	192 . 168 . 20 . 2	DNS1:	0 . 0 . 0 . 0	
子网掩码:	255 . 255 . 255 . 0	DNS2:	0 . 0 . 0 . 0	
网关:	192 . 168 . 20 . 1			
IPv6 配置				
<input checked="" type="radio"/> 静态	<input type="radio"/> DHCPv6			
IPv6 地址:	::			
前缀长度:	128			
IPv6 网关:	::			
应用				

PC1

基础配置	命令行	组播	UDP发包工具	串口
Welcome to use PC Simulator!				
<pre>PC>ping 192.168.20.2 Ping 192.168.20.2: 32 data bytes, Press Ctrl_C to break Request timeout! From 192.168.20.2: bytes=32 seq=2 ttl=126 time=31 ms From 192.168.20.2: bytes=32 seq=3 ttl=126 time=16 ms From 192.168.20.2: bytes=32 seq=4 ttl=126 time=31 ms From 192.168.20.2: bytes=32 seq=5 ttl=126 time=31 ms --- 192.168.20.2 ping statistics --- 5 packet(s) transmitted 4 packet(s) received 20.00% packet loss round-trip min/avg/max = 0/27/31 ms PC></pre>				

PC2

基础配置	命令行	组播	UDP发包工具	串口
Welcome to use PC Simulator!				
<pre>PC>ping 192.168.10.2 Ping 192.168.10.2: 32 data bytes, Press Ctrl_C to break From 192.168.10.2: bytes=32 seq=1 ttl=126 time=47 ms From 192.168.10.2: bytes=32 seq=2 ttl=126 time=31 ms From 192.168.10.2: bytes=32 seq=3 ttl=126 time=31 ms From 192.168.10.2: bytes=32 seq=4 ttl=126 time=31 ms From 192.168.10.2: bytes=32 seq=5 ttl=126 time=32 ms --- 192.168.10.2 ping statistics --- 5 packet(s) transmitted 5 packet(s) received 0.00% packet loss round-trip min/avg/max = 31/34/47 ms PC></pre>				

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！