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V5 交换机OSPF单域配置方法(命令行

版)

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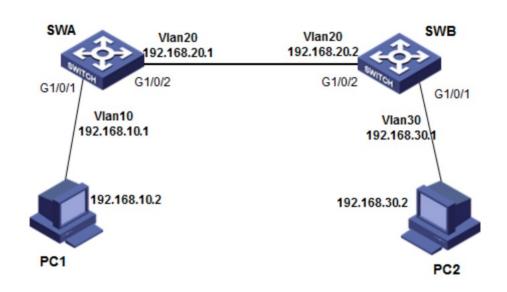
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- 1配置需求或说明
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本案例适用于如S5120-28C-EI 、S5500-28C-EI等支持OSPF协议的V5交换机,V5、V7交换机具体分类及型号可以参考"1.1 Comvare V5、V7平台交换机分类说明"。

1. 2配置需求

SWA和SWB通过VLAN20互联、通过OSPF路由协议实现PC1和PC2的互连互通。

2组网图



3 配置步骤

3.1 SWA配置

```
#创建vlan10和vlan20,并把G1/0/1口加入vlan10、1/0/2口加入vlan20,
并且配置vlan10和vlan20的虚接口地址
<SWA>system-view
System View: return to User View with Ctrl+Z.
[SWA] vlan 10
[SWA-vlan10]port GigabitEthernet 1/0/1
[SWA-vlan10]quit
[SWA] vlan 20
[SWA-vlan20]port GigabitEthernet 1/0/2
[SWA-vlan20]quit
[SWA]interface vlan 10
[SWA-Vlan-interface10]ip address
192.168.10.1 255.255.255.0
[SWA-Vlan-interface10] quit
[SWA]interface vlan 20
[SWA-Vlan-interface20]ip address
192.168.20.1 255.255.255.0
[SWA-Vlan-interface20] quit
#启动ospf协议,并设置路由器的router id
[SWA]ospf 1 router-id 192.168.20.1
#配置区域0并且发布网段
[SWA-ospf-1]area 0
[SWA-ospf-1-area-0.0.0.0] network 192.168.10.0
0.0.0.255
[SWA-ospf-1-area-0.0.0.0] network 192.168.20.0
0.0.0.255
[SWA-ospf-1-area-0.0.0.0] quit
[SWA-ospf-1]quit
#保存配置
[SWA] save force
```

3.2 SWB配置

#创建vlan10和vlan30,并把G1/0/1口加入vlan20、1/0/2口加入vlan30,并且配置vlan20和vlan30的虚接口地址

```
<SWB>system-view
System View: return to User View with Ctrl+Z.
[SWB] vlan 20
[SWB-vlan20]port GigabitEthernet 1/0/1
[SWB-vlan20]quit
[SWB]vlan 30
[SWB-vlan30]port GigabitEthernet 1/0/2
[SWB-vlan30]quit
[SWB]interface vlan 20
[SWB-Vlan-interface20]ip address
192.168.20.2 255.255.255.0
[SWB-Vlan-interface20] quit
[SWB]interface vlan 30
[SWB-Vlan-interface30]ip address
192.168.30.1 255.255.255.0
[SWB-Vlan-interface30] quit
#启动ospf协议,并设置路由器的router id
[SWB]ospf 1 router-id 192.168.20.2
#配置区域0并且发布网段
[SWB-ospf-1]area 0
[SWB-ospf-1-area-0.0.0.0] network 192.168.20.0
0.0.0.255
[SWB-ospf-1-area-0.0.0.0] network 192.168.30.0
0.0.0.255
[SWB-ospf-1-area-0.0.0.0] quit
[SWB-ospf-1]quit
#保存配置
[SWB] save force
```

3.3 验证配置

#查看Switch A的OSPF邻居,Full为正常状态。

<SWA>display ospf peer
OSPF Process 1 with Router ID 192.168.20.1
Neighbor Brief Information

Area: 0.0.0.0

Router ID Address Pri Dead-Time State Interface

192.168.20.2 192.168.20.2 1 35

> Full/BDR Vlan20

#查看Switch A的OSPF路由信息

<SWB>display ospf routing

OSPF Process 1 with Router ID 192.168.20.1

Routing Table

Topology base (MTID 0)

Routing for network

Destination	Cost	Type	NextHop
AdvRouter	Area		
192.168.10.0/24	1	Stub	0.0.0.0
192.168.20.	1 0.0.0.0		
192.168.30.0/24	2	Stub	192.168.20.2
192.168.20.2	0.0.0.0		
192.168.20.0/24	1	Trans	it 0.0.0.0
192.168.20.	1 0.0.0.0		

#查看Switch A的路由表信息,有到192.168.30.0/24网段的路由

<SWA>display ip routing-table

Destinations: 17 Routes: 17 Destination/Mask Proto Pre Cost NextHop Interface 0.0.0.0/32 Direct 0 0 127.0.0.1 InLoop0 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

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192.168.10.0/24 192.168.		Direct Vlan10		0	0
192.168.10.0/32 192.168.	10.1			0	0
192.168.10.1/32 InLoop0	Direct	0	0	1	.27.0.0.1
192.168.10.255/32 192.168.	10.1			0	0
192.168.20.0/24 192.168.		Direct Vlan20		0	0
192.168.20.0/32 192.168.		Direct Vlan20		0	0
192.168.20.1/32 InLoop0	Direct	0	0	1	27.0.0.1
192.168.20.255/32 192.168.				0	0
192.168.30.0/24 192.168.		O_INTR Vlan20	A	10	2
224.0.0.0/4	Diroct	0			0 0 0 0
NULL0	Difect	. 0	0		0.0.0.0
			0		0.0.0.0
NULL0 224.0.0.0/24	Direct	0		1	
NULL0 224.0.0.0/24 NULL0 255.255.255.255/32	Direct	0	0	1	0.0.0.0
NULL0 224.0.0.0/24 NULL0 255.255.255.255/32 InLoop0	Direct Direct	0	0	1	0.0.0.0
NULL0 224.0.0.0/24 NULL0 255.255.255.255/32 InLoop0 # PC1 ping PC2 正常通信	Direct Direct ing 192.	0 0 168. 30. 2	0		0.0.0.0
NULL0 224.0.0.0/24 NULL0 255.255.255.255/32 InLoop0 #PC1 ping PC2 正常通信 C:\Users\mfw2656>p. Ping 192.168.30.2	Direct Direct ing 192.1	0 0 168.30.2	0 0 : 56 data	byte	0.0.0.0
NULLO 224.0.0.0/24 NULLO 255.255.255.255/32 InLoopO # PC1 ping PC2 正常通信 C:\Users\mfw2656>p Ping 192.168.30.2 CTRL_C to break 56 bytes from	Direct Direct ing 192.1	0 0 168. 30. 2 3. 30. 2):	0 0 : 56 data	byte eq=0	0.0.0.0 .27.0.0.1 es, press
NULLO 224.0.0.0/24 NULLO 255.255.255.255/32 InLoopO #PC1 ping PC2 正常通信 C:\Users\mfw2656>p Ping 192.168.30.2 CTRL_C to break 56 bytes from time=8.000 ms 56 bytes from	Direct Direct ing 192.168	0 0 168.30.2 3.2 3.00.2 3.2 3.00.2 3.00.2 3.2 3.00.2 3.00.2 3.00.2 3.00.2 3.00.2 3.00.2 3.00.2 3.00.2	0 0 : 56 data icmp_se	byte eq=0 eq=1	0.0.0.0 .27.0.0.1 es, press ttl=254

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time=3.000 ms

192.168.30.2 的 Ping 统计信息:

数据包: 已发送 = 4, 已接收 = 4, 丢失 = 0 (0% 丢失),

返行程的估计时间(以毫秒为单位):

最短 = 2ms, 最长 = 3ms, 平均 = 2ms