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V5交换机三层组播配置方法（命令行版）

目录

1 配置需求或说明

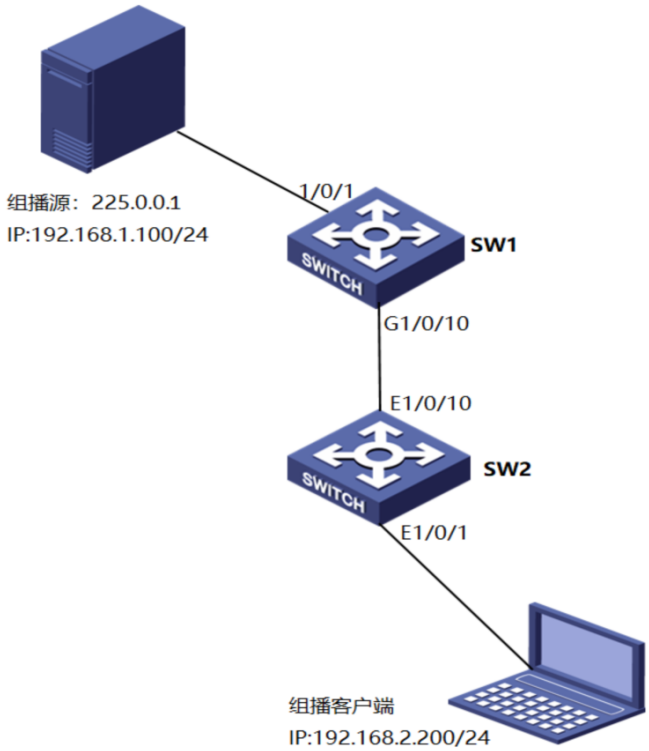
1.1 适用产品系列

本案例适用于如S3600V2-28TP-EI、S800-32C等支持三层组播的V5交换机，V5、V7交换机具体分类及型号可以参考“1.1 Comware V5、V7平台交换机分类说明”。

1.2 配置需求

公司内部部署了一台组播源，为保证终端能正常接收组播源传输的业务，需在所经交换机上开启组播功能。

2 组网图



3 配置步骤

3.1 配置SW1的IP地址和互联路由

```
<H3C>system-view
#新建互联VLAN10
[H3C]vlan 10
```

```
#将10口加入到VLAN10
[H3C]interface Ethernet1/0/10
[H3C-Ethernet1/0/10]port access vlan 10
[H3C-Ethernet1/0/10]quit
#配置交换机间互联地址
[H3C]interface Vlan-interface10
[H3C-Vlan-interface10]ip address
172.16.10.1 255.255.255.0
[H3C-Vlan-interface10]quit
#配置与组播源互联地址
[H3C]interface Vlan-interface1
[H3C-Vlan-interface1]ip address
192.168.1.1 255.255.255.0
[H3C-Vlan-interface1]quit
#配置组播源与组播客户端互联路由
[H3C]ip route-static 192.168.2.0
255.255.255.0 172.16.10.2
```

3.2 SW1上开启组播路由功能，接口下使能PIM DM

```
#开启组播路由功能
[H3C]multicast routing-enable
#设备互联接口使能PIM-DM功能
[H3C]interface Vlan-interface10
[H3C-Vlan-interface10]pim dm
[H3C-Vlan-interface10]quit
#连接组播源接口使能PIM功能
[H3C]interface Vlan-interface1
[H3C-Vlan-interface1]pim dm
[H3C-Vlan-interface1]quit
[H3C]save
配置SW2的IP地址和互联路由
<H3C>system-view
#新建互联VLAN10
[H3C]vlan 10
```

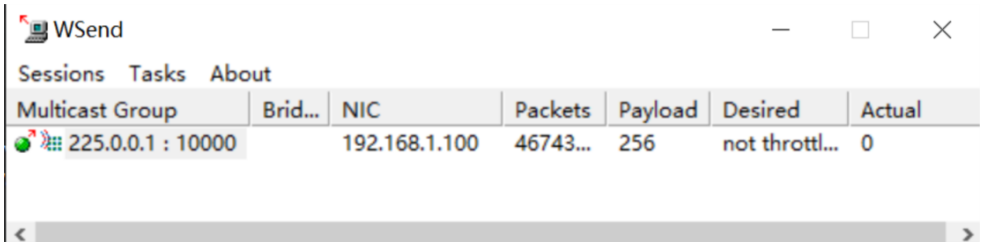
```
    #将10口加入到VLAN10
    [H3C]interface GigabitEthernet 1/0/10
    [H3C-GigabitEthernet1/0/10]port access
vlan 10
    [H3C-GigabitEthernet1/0/10]quit
    #配置交换机间互联地址
    [H3C]interface Vlan-interface10
    [H3C-Vlan-interface10]ip address
172.16.10.2 255.255.255.0
    [H3C-Vlan-interface10]quit
    #配置与组播客户端互联地址
    [H3C]interface Vlan-interface1
    [H3C-Vlan-interface1]ip address
192.168.2.1 255.255.255.0
    [H3C-Vlan-interface1]quit
    #配置组播源与组播客户端互联路由
    [H3C]ip route-static 192.168.1.0
255.255.255.0 172.16.10.1
```

3.3 SW2上开启组播路由功能，设备互联接口使能PIM-DM，组播接受者接口使能IGMP

```
    #开启组播路由功能
    [H3C]multicast routing-enable
    #互联接口接口使能PIM-DM功能
    [H3C]interface Vlan-interface10
    [H3C-Vlan-interface10]pim dm
    [H3C-Vlan-interface10]quit
    #连接组播客户端接口使能IGMP功能
    [H3C]interface Vlan-interface1
    [H3C-Vlan-interface1]igmp enable
    [H3C-Vlan-interface1]quit
    [H3C]save
```

3.4 检查配置结果

组播源：

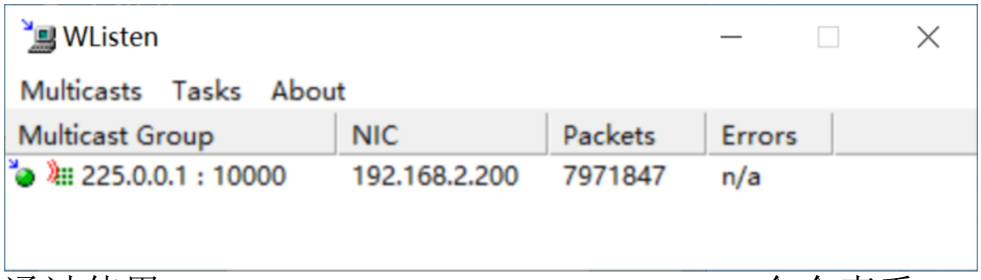


通过使用display pim routing-table命令查看SW1 PIM路由表信息。

```
dis  pim routing-table
 VPN-Instance: public net
 Total 0 (*, G) entry; 1 (S, G) entry

 (192.168.1.100, 225.0.0.1)
     Protocol: pim-dm, Flag: LOC ACT
     UpTime: 00:00:17
     Upstream interface: Vlan-interface1
         Upstream neighbor: NULL
         RPF prime neighbor: NULL
     Downstream interface(s) information:
     Total number of downstreams: 1
         1: Vlan-interface10
             Protocol: pim-dm, UpTime:
00:00:07, Expires: never
```

组播客户端：



通过使用display pim routing-table命令查看SW2 PIM路由表信息。

```
<H3C>dis  pim  routing-table

 VPN-Instance: public net

 Total 2 (*, G) entries; 1 (S, G) entry


 (*, 225.0.0.1)

     Protocol: pim-dm, Flag: WC EXT

     UpTime: 00:05:45

     Upstream interface: NULL

         Upstream neighbor: NULL

         RPF prime neighbor: NULL

      Downstream  interface(s)  information:
```

```
None

 (192.168.1.100, 225.0.0.1)
     Protocol: pim-dm, Flag: EXT ACT
     UpTime: 00:08:12
     Upstream interface: Vlan-interface10
         Upstream neighbor: 172.16.10.1
         RPF prime neighbor: 172.16.10.1
      Downstream  interface(s)  information:
None

 (*, 239.255.255.250)
     Protocol: pim-dm, Flag: WC EXT
     UpTime: 00:05:42
     Upstream interface: NULL
         Upstream neighbor: NULL
         RPF prime neighbor: NULL
      Downstream  interface(s)  information:
None
```