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V5交换机三层组播配置方法 （命令行版）

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1 配置需求或说明

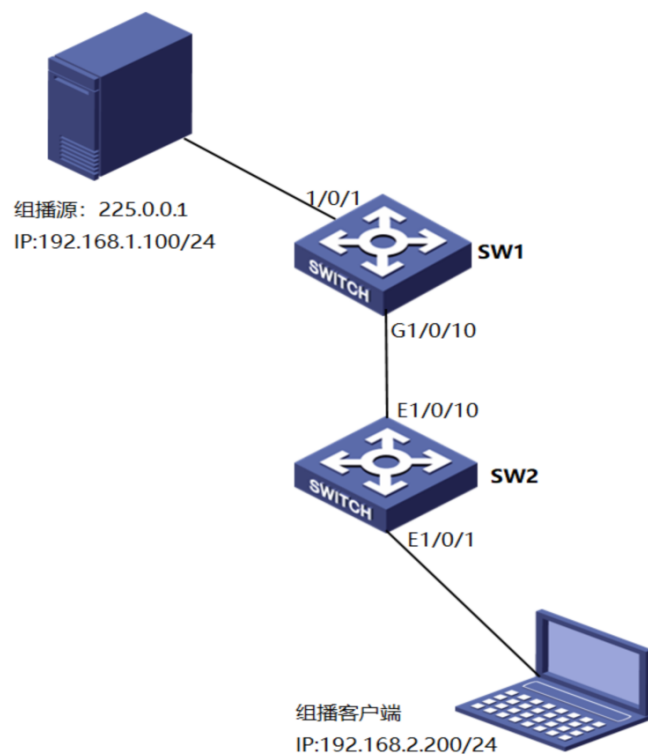
1.1 适用产品系列

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

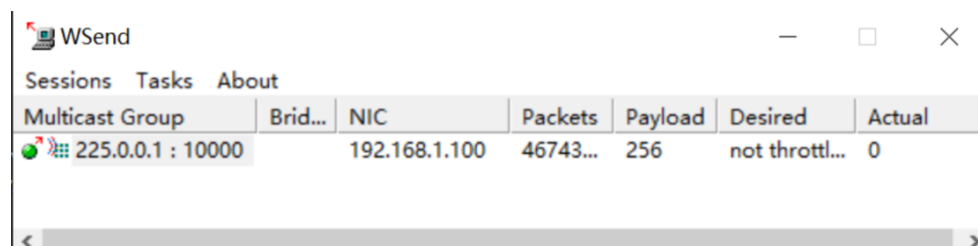
```

#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：



The image shows a screenshot of the WSend application window. It has a menu bar with 'Sessions', 'Tasks', and 'About'. Below the menu bar is a table with the following columns: 'Multicast Group', 'Brid...', 'NIC', 'Packets', 'Payload', 'Desired', and 'Actual'. There is one row of data: '225.0.0.1 : 10000', '192.168.1.100', '46743...', '256', 'not throttl...', and '0'. The window has standard Windows window controls (minimize, maximize, close) in the top right corner.

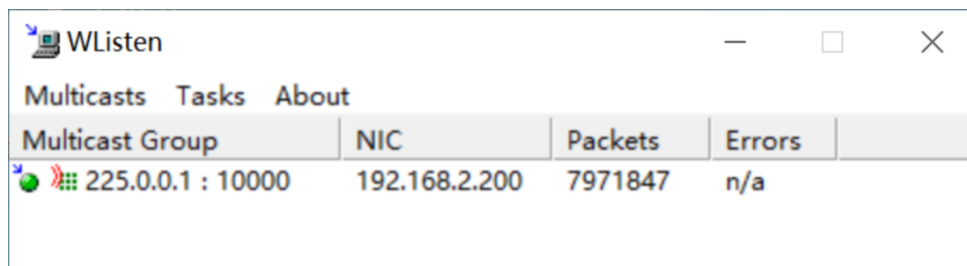
Multicast Group	Brid...	NIC	Packets	Payload	Desired	Actual
225.0.0.1 : 10000		192.168.1.100	46743...	256	not throttl...	0

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：



The screenshot shows a window titled 'WListen' with a menu bar containing 'Multicasts', 'Tasks', and 'About'. Below the menu bar is a table with the following data:

Multicast Group	NIC	Packets	Errors
225.0.0.1 : 10000	192.168.2.200	7971847	n/a

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

