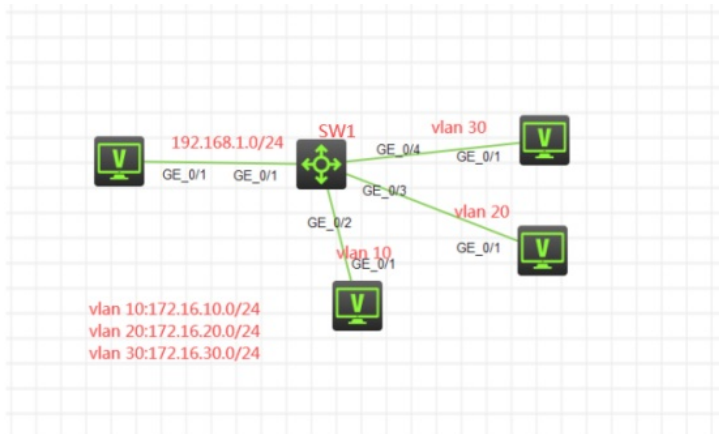


## 基于VLAN应用QoS policy典型组网配置案例

VLAN QoS H3C模拟器 韦家宁 2020-02-20 发表

### 组网及说明



### 组网说明:

本案例采用H3C HCL模拟器来模拟QoS policy典型组网。SW1交换机的GI 1/0/1端口连接服务器。GI 1/0/2、GI 1/0/3、GI 1/0/4连接客户机。在网络拥塞时，要求VLAN 10的业务可以优先访问服务器，因此需要将VLAN 10接入的端口的本地优先级进行流量重标记。

### 配置步骤

- 1、按照网络拓扑图正确配置IP地址和VLAN
- 2、配置QoS policy，对VLAN 10的业务进行流量重标记
- 3、将QoS基于VLAN应用进行发布

### 配置关键点

第一阶段调试（基础网络配置）：

SW1:

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]sysname SW1
[SW1]vlan 10
[SW1-vlan10]quit
[SW1]vlan 20
[SW1-vlan20]quit
[SW1]vlan 30
[SW1-vlan30]quit
[SW1]int vlan 10
[SW1-Vlan-interface10]ip address 172.16.10.1 24
[SW1-Vlan-interface10]quit
[SW1]int vlan 20
[SW1-Vlan-interface20]ip address 172.16.20.1 24
[SW1-Vlan-interface20]quit
[SW1]int vlan 30
[SW1-Vlan-interface30]ip address 172.16.30.1 24
[SW1-Vlan-interface30]quit
[SW1]int gi 1/0/2
[SW1-GigabitEthernet1/0/2]port link-type access
[SW1-GigabitEthernet1/0/2]port access vlan 10
[SW1-GigabitEthernet1/0/2]quit
[SW1]int gi 1/0/3
[SW1-GigabitEthernet1/0/3]port link-type access
[SW1-GigabitEthernet1/0/3]port access vlan 20
[SW1-GigabitEthernet1/0/3]quit
[SW1]int gi 1/0/4
```

```
[SW1-GigabitEthernet1/0/4]port link-type access
[SW1-GigabitEthernet1/0/4]port access vlan 30
[SW1-GigabitEthernet1/0/4]quit
[SW1]int gi 1/0/1
[SW1-GigabitEthernet1/0/1]port link-mode route
[SW1-GigabitEthernet1/0/1]ip address 192.168.1.1 24
[SW1-GigabitEthernet1/0/1]quit
[SW1]
```

第二阶段调试（QOS关键配置点）

SW1:

```
[SW1]acl basic 2000
[SW1-acl-ipv4-basic-2000]rule 0 permit source 172.16.10.0 0.0.0.255
[SW1-acl-ipv4-basic-2000]quit
```

```
[SW1]traffic classifier 1
[SW1-classifier-1]if-match acl 2000
[SW1-classifier-1]quit
```

```
[SW1]traffic behavior 1
[SW1-behavior-1]remark local-precedence 7
[SW1-behavior-1]quit
```

```
[SW1]qos policy 1
[SW1-qospolicy-1]classifier 1 behavior 1
[SW1-qospolicy-1]quit
```

```
[SW1]qos vlan-policy 1 vlan 10 inbound
```

查看QOS的显示信息:

```
[SW1]dis traffic classifier user-defined
User-defined classifier information:
Classifier: 1 (ID 100)
Operator: AND
Rule(s) :
If-match acl 2000
[SW1]
```

```
[SW1]dis traffic behavior user-defined
User-defined behavior information:
Behavior: 1 (ID 100)
Marking:
Remark local-precedence 7
Behavior: 2 (ID 101)
-none-
[SW1]
```

```
[SW1]dis qos vlan-policy vlan 10
Vlan 10
Direction: Inbound
Policy: 1
Classifier: 1
Operator: AND
Rule(s) :
If-match acl 2000
Behavior: 1
Marking:
Remark local-precedence 7
[SW1]
```

至此，基于VLAN应用qos policy典型组网配置案例已完成!