

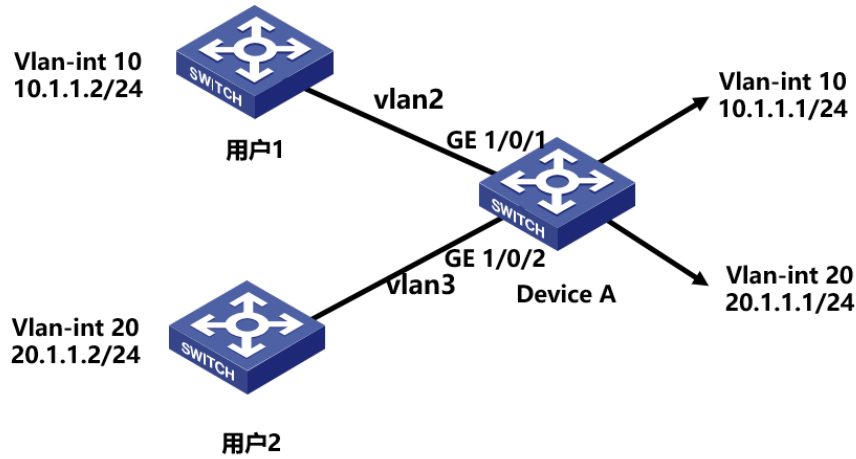
同一设备下多个supervlan用户互访限制典型配置

Super Vlan 曾招维 2022-08-04 发表

组网及说明

Device A连接不同VLAN用户，其中，端口GigabitEthernet1/0/1属于VLAN 2，端口GigabitEthernet1/0/2属于VLAN 3。为实现Device A连接的各VLAN用户（均在10.1.1.0/24网段）之间能够满足二层隔离和三层互通的同时，节省IP资源，创建Super VLAN，其关联的Sub VLAN公用Super VLAN interface的IP地址10.1.1.1/24和20.1.1.1/24作为三层通信的网关地址。

同时限制vlan 10和vlan 20的supervlan间用户不能互访，及用户1和用户2禁止互访。



配置步骤

1、用户1和用户2配置vlan，vlan-int地址，配置静态路由。

2、supervlan基本配置。

创建VLAN 10，配置VLAN接口的IP地址为10.1.1.1/24。

```
<DeviceA> system-view
```

```
[DeviceA] vlan 10
```

```
[DeviceA-vlan10] quit
```

```
[DeviceA] interface vlan-interface 10
```

```
[DeviceA-Vlan-interface10] ip address 10.1.1.1 255.255.255.0
```

创建VLAN 20，配置VLAN接口的IP地址为20.1.1.1/24。

```
<DeviceA> system-view
```

```
[DeviceA] vlan 20
```

```
[DeviceA-vlan10] quit
```

```
[DeviceA] interface vlan-interface 20
```

```
[DeviceA-Vlan-interface10] ip address 20.1.1.1 255.255.255.0
```

开启设备的本地代理ARP功能。

```
[DeviceA-Vlan-interface10] local-proxy-arp enable
```

```
[DeviceA-Vlan-interface10] quit
```

```
[DeviceA-Vlan-interface20] local-proxy-arp enable
```

```
[DeviceA-Vlan-interface10] quit
```

创建VLAN 2，并向VLAN 2中添加端口GigabitEthernet1/0/1

```
[DeviceA] vlan 2
```

```
[DeviceA-vlan2] port gigabitethernet 1/0/1
```

```
[DeviceA-vlan2] quit
```

创建VLAN 3，并向VLAN 3中添加端口GigabitEthernet1/0/2

```
[DeviceA] vlan 3
```

```
[DeviceA-vlan3] port gigabitethernet 1/0/2
```

```
[DeviceA-vlan3] quit
```

配置VLAN 10为Super VLAN，其关联的Sub VLAN为VLAN 2

```
[DeviceA] vlan 10
```

```
[DeviceA-vlan10] supervlan
```

```
[DeviceA-vlan10] subvlan 2
```

```
[DeviceA-vlan10] quit
```

```
[DeviceA] quit
```

配置VLAN 20为Super VLAN，其关联的Sub VLAN为VLAN 3

```
[DeviceA] vlan 20
```

```
[DeviceA-vlan10] supervlan
```

```
[DeviceA-vlan10] subvlan 3
```

```
[DeviceA-vlan10] quit
```

```
[DeviceA] quit
```

3、用户1和用户2禁止互访配置,比如限制互ping:

```
#
```

```
traffic classifier cl operator and
```

```
if-match acl 3001
```

```
#
```

```
traffic behavior b1
```

```
filter deny
```

```
#
```

```
qos policy q1
```

```
classifier cl behavior b1
```

```
#
```

```
#
```

```
acl advanced 3001
```

```
rule 5 permit icmp source 10.1.1.0 0.0.0.255 destination 20.1.1.0 0.0.0.255
```

```
rule 10 permit icmp source 20.1.1.0 0.0.0.255 destination 10.1.1.0 0.0.0.255
```

```
#
```

或者将上述QOS策略在接口下调用

```
#
```

```
interface Ten-GigabitEthernet1/0/1
```

```
port link-mode bridge
```

```
port access vlan 2
qos apply policy q1 inbound
qos apply policy q1 outbound
```

配置关键点

请或者在接口进调用是带sub VLAN的tag的，在super vlan的三层口上调用包过滤或者QOS策略均不生效。

Sub VLAN不支持创建VLAN接口/1也不能在sub vlan的三层口调用。

```
port link-mode bridge
port access vlan 2
packet-filter 3000 inbound
packet-filter 3000 outbound
#
#
acl advanced 3000
rule 5 deny icmp source 10.1.1.0 0.0.0.255 destination 20.1.1.0 0.0.0.255
rule 10 deny icmp source 20.1.1.0 0.0.0.255 destination 10.1.1.0 0.0.0.255
#
```

