

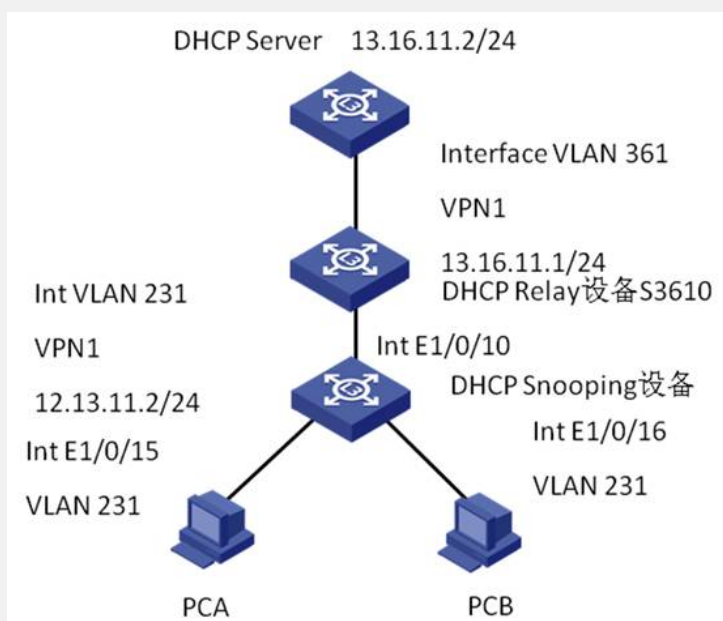
S3610 DHCP-relay支持VPN实例内转发 典型配置

一、组网需求:

客户网络是电力城域网网络，在MPLP/VPN城域网模式下，将S3610交换机作为MCE接入，网关在S3610上，S3610上需要在VPN内启用DHCP-relay。DHCP-relay支持VPN实例分为实例内转发和实例间转发两种。所谓实例内转发，就是DHCP-relay的上行口和下行口都绑在同一个VPN实例中。所谓实例间转发，就是DHCP-relay的上行口和下行口绑在不同的VPN实例中。

本典型配置是实例内转发的典型配置。

二、组网图:



PCA和PCB分别连接在二层交换机的E1/0/15和E1/0/16口;

S3610作为PC的网关，并做DHCP Relay设备。其下行Interface VLAN 231和上行Interface VLAN 361都绑定VPN实例VPN1。

三、配置步骤:

1. S3610 DHCP Relay设备配置

```
dhcp relay server-group 1 ip 13.16.11.2
dhcp enable
ip vpn-instance 1
route-distinguisher 100:1
vpn-target 100:1 export-extcommunity
vpn-target 200:1 import-extcommunity
vlan 231
vlan 361
interface Bridge-Aggregation36
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 361
```

```

interface Vlan-interface231
ip binding vpn-instance 1
ip address 12.13.11.2 255.255.255.0
dhcp select relay
dhcp relay server-select 1
interface Vlan-interface361
ip binding vpn-instance 1
ip address 13.16.11.1 255.255.255.0
interface Ethernet1/0/10
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 231
interface GigabitEthernet1/1/3
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 361
port link-aggregation group 36
interface GigabitEthernet1/1/4
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 361
port link-aggregation group 36

```

2、S3610 DHCP Snooping设备配置;

```

dhcp-snooping
vlan 231
interface Ethernet1/0/10
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 231
dhcp-snooping trust
interface Ethernet1/0/15
port access vlan 231
interface Ethernet1/0/16
port access vlan 231

```

3、DHCP Server设备配置

```

dhcp enable
vlan 361
dhcp server ip-pool 1
network 12.13.11.0 mask 255.255.255.0
gateway-list 12.13.11.2
interface Bridge-Aggregation36
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 361
interface Vlan-interface361
ip address 13.16.11.2 255.255.255.0
interface GigabitEthernet1/0/6

```

```
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 361
port link-aggregation group 36
interface GigabitEthernet1/0/7
port link-type trunk
undo port trunk permit vlan 1
port trunk permit vlan 361
port link-aggregation group 36
ip route-static 12.13.11.0 255.255.255.0 13.16.11.1
```

4、验证配置结果

PCA和PCB都可以正常获取到IP地址。

dhcp-snooping、dhcp-relay、dhcp-server上均可以正确生成表项。

四、配置关键点：

S3610 R5309及其后版本支持此特性，建议采用最新版本。