CE设备dhcp获取非实例接口地址

DHCP/DHCP Relay　MPLS L3VPN　李欣　2018-10-12 发表

组网及说明

```
dhcp---PE1---------PE2
          |          |
        CE1        CE2
          |          |
        client1    client2
```

PE1与PE2是mpls组网，dhcp server所在接口为非实例接口，CE1及CE2分别加入vpn-instance1与2，现要求终端client1与2通过dhcp 中继获取IP；

服务器10.1.1.0/24 网关PE1

CE1---192.168.1.0/24 网关PE1

CE2---192.168.2.0/24 网关PE2

问题描述

两个终端client通过dhcp中继获取IP

过程分析

两个终端client通过dhcp中继获取IP

解决方法

PE1关键配置：

```
 ip route-static 2.2.2.2 32 20.1.1.2
 ip route-static 192.168.1.0 24 vpn-instance 1 192.168.1.2
 ip route-static 192.168.2.0 24 20.1.1.2
 ip route-static vpn-instance 1 10.1.1.0 24 10.1.1.1 public

bgp 1
 peer 2.2.2.2 as-number 1
 peer 2.2.2.2 connect-interface LoopBack0
 address-family ipv4 unicast
 import-route direct
 peer 2.2.2.2 enable
 address-family vpnv4
 peer 2.2.2.2 enable
 ip vpn-instance 1
 address-family ipv4 unicast import-route direct

interface LoopBack0
ip address 1.1.1.1 255.255.255.255
interface Vlan-interface1
 ip address 10.1.1.2 255.255.255.0
interface Vlan-interface2
 ip binding vpn-instance 1
 ip address 192.168.1.1 255.255.255.0
 dhcp select relay
 dhcp relay server-address 10.1.1.1
interface Vlan-interface3
 ip address 20.1.1.1 255.255.255.0
 mpls enable
 mpls ldp enable

mpls lsr-id 1.1.1.1

ip vpn-instance 1
 route-distinguisher 1:1
 vpn-target 1:1 import-extcommunity
 vpn-target 1:1 export-extcommunity
```

PE2关键配置：

```
 ip route-static 1.1.1.1 32 20.1.1.1
 ip route-static 192.168.2.0 24 vpn-instance 1 192.168.2.2
 ip route-static vpn-instance 1 10.1.1.0 24 20.1.1.1 public
```