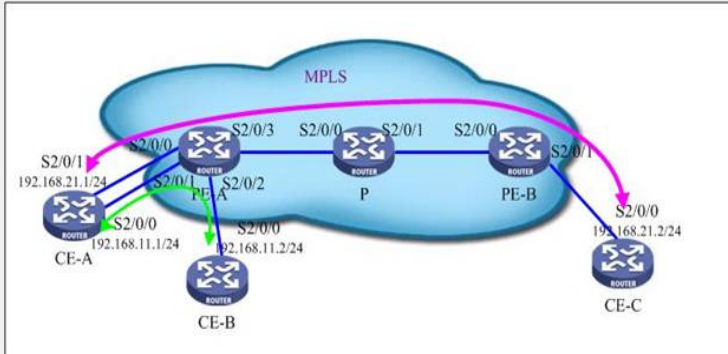


AR28/AR46系列路由器L2VPN - Kompella典型配置

【需求】

CE-A的S2/0/0和CE-B的S2/0/0之间建立一条本地的L2VPN连接，CE-A的S2/0/1和CE-C的S2/0/0建立一条远程的L2VPN连接。

【组网图】



【配置脚本】

CE-A配置脚本

```
#
sysname CE-A
#
radius scheme system
#
domain system
#
interface Serial2/0/0
link-protocol ppp
ip address 192.168.11.1 255.255.255.0
#
interface Serial2/0/1
link-protocol ppp
ip address 192.168.21.1 255.255.255.0
#
interface NULL0
#
user-interface con 0
user-interface vty 0 4
#
return
```

CE-B配置脚本

```
#
sysname CE-B
#
radius scheme system
#
domain system
#
interface Serial2/0/0
link-protocol ppp
ip address 192.168.11.2 255.255.255.0
#
interface NULL0
#
user-interface con 0
user-interface vty 0 4
#
return
```

PE-A配置脚本

```

#
sysname PE-A
#
router id 1.1.1.1
#
mpls lsr-id 1.1.1.1
#
mpls l2vpn /启用MPLS L2VPN/
#
#
radius scheme system
#
mpls
#
mpls ldp
#
domain system
#
interface Serial2/0/0
link-protocol ppp
#
interface Serial2/0/1
link-protocol ppp
#
interface Serial2/0/2
link-protocol ppp
#
interface Serial2/0/3
link-protocol ppp
ip address 10.0.0.1 255.255.255.252
mpls
mpls ldp enable
#
interface NULL0
#
interface LoopBack0
ip address 1.1.1.1 255.255.255.255
#
bgp 100
undo synchronization
group inter internal
peer 3.3.3.3 group inter /和PE-B建立BGP邻居/
peer 3.3.3.3 connect-interface LoopBack0
#
l2vpn-family /创建L2VPN地址族/
peer inter enable /使能peer inter/
#
ospf 1
area 0.0.0.0
network 1.1.1.1 0.0.0.0
network 10.0.0.0 0.0.0.3
#
mpls l2vpn vpna encapsulation ppp /创建VPN实例“vpna”，封装为ppp/
route-distinguisher 100:1 /RD=100:1/
vpn-target 100:1 import-extcommunity /RT=100:1/
vpn-target 100:1 export-extcommunity
mtu 1500
ce ce-a id 1 range 10 default-offset 0 /创建ce“ce-a”/
connection ce-offset 3 interface Serial2/0/1
/配置和CE-C的远程连接/
connection ce-offset 2 interface Serial2/0/0
/配置和CE-B的本地连接/
ce ce-b id 2 range 10 default-offset 0 /创建ce“ce-b”/
connection ce-offset 1 interface Serial2/0/2 /配置和CE-A的本地连接/
#
#
user-interface con 0
user-interface vty 0 4
#
return

```

P配置脚本

```
#
sysname P
#
router id 2.2.2.2
#
mpls lsr-id 2.2.2.2
#
radius scheme system
#
mpls
#
mpls ldp
#
domain system
#
interface Serial2/0/0
link-protocol ppp
ip address 10.0.0.2 255.255.255.252
mpls
mpls ldp enable
#
interface Serial2/0/1
link-protocol ppp
ip address 10.0.0.5 255.255.255.252
mpls
mpls ldp enable
#
interface NULL0
#
interface LoopBack0
ip address 2.2.2.2 255.255.255.255
#
ospf 1
area 0.0.0.0
network 2.2.2.2 0.0.0.0
network 10.0.0.0 0.0.0.3
network 10.0.0.4 0.0.0.3
#
user-interface con 0
user-interface vty 0 4
#
return
```

PE-B配置脚本

```

#
sysname PE-B
#
router id 3.3.3.3
#
mpls lsr-id 3.3.3.3
#
mpls l2vpn /启用MPLS L2VPN/
#
#
radius scheme system
#
mpls
#
mpls ldp
#
domain system
#
interface Serial2/0/0
link-protocol ppp
ip address 10.0.0.6 255.255.255.252
mpls
mpls ldp enable
#
interface Serial2/0/1
link-protocol ppp
#
interface NULL0
#
interface LoopBack0
ip address 3.3.3.3 255.255.255.255
#
bgp 100
undo synchronization
group inter internal
peer 1.1.1.1 group inter /和PE-A建立BGP邻居/
peer 1.1.1.1 connect-interface LoopBack0
#
l2vpn-family /创建L2VPN地址族/
peer inter enable /使能peer inter/
#
ospf 1
area 0.0.0.0
network 3.3.3.3 0.0.0.0
network 10.0.0.4 0.0.0.3
#
mpls l2vpn vpna encapsulation ppp /创建VPN实例“vpna”，封装为ppp/
route-distinguisher 100:1 /RD=100:1/
vpn-target 100:1 import-extcommunity /RT=100:1/
vpn-target 100:1 export-extcommunity
mtu 1500
ce ce-c id 3 range 10 default-offset 0 /创建ce“ce-c”/
connection ce-offset 1 interface Serial2/0/1 /配置和CE-A的远程连接/
#
#
user-interface con 0
user-interface vty 0 4
#
return

```

CE-C配置脚本

```

#
sysname CE-C
#
radius scheme system
#
domain system
#
interface Serial2/0/0
link-protocol ppp
ip address 192.168.21.2 255.255.255.0
#
interface NULL0
#
user-interface con 0
user-interface vty 0 4
#
return

```

【验证】

查看PE-A的l2vpn连接状态：

```
<PE-A>disp mpls l2vpn connection
```

```
total connections: 3,
```

```
connections: 3 up, 0 down, 2 local, 1 remote, 0 unknown
```

VPN-Instance Name: vpna,
total connections: 3,
connections: 3 up, 0 down, 2 local, 1 remote, 0 unknown

```
CE Name: ce-a, id: 1,  
Rid type status peer-id    route-distinguisher intf  
3 rmt up 3.3.3.3    100:1          Serial2/0/1  
2 loc up ---        ---            Serial2/0/0
```

```
CE Name: ce-b, id: 2,  
Rid type status peer-id    route-distinguisher intf  
1 loc up ---        ---            Serial2/0/2
```

查看PE-B的l2vpn连接状态:

```
<PE-B>disp mpls l2vpn connection  
total connections: 1,  
connections: 1 up, 0 down, 0 local, 1 remote, 0 unknown
```

VPN-Instance Name: vpna,
total connections: 1,
connections: 1 up, 0 down, 0 local, 1 remote, 0 unknown

```
CE Name: ce-c, id: 3,  
Rid type status peer-id    route-distinguisher intf  
1 rmt up 1.1.1.1    100:1          Serial2/0/1
```

【提示】

Kompella方式的VC标签由MP-BGP来发布。下图为二层标签示意图。

