

问题描述

两台68做m-lag组网使用evpn与友商交换机对接，现出现隧道无法建立，对端建立正常本端无法建立

过程分析

1. 邻居建立正常：

[B21/32U]display bgp peer l2vpn evpn

BGP local router ID: 2.1.1.1

Local AS number: 1

Total number of peers: 1 Peers in established state: 1

* - Dynamically created peer

^ - Peer created through link-local address

Peer AS MsgRcvd MsgSent OutQ PrefRcv Up/Down State

1.1.1.1 11 34854 2804 0 1 0001d19h Established

2、隧道无回显：

[B21/32U]display vxlan tunnel

Total number of VXLANs: 1

VXLAN ID: 253, VSI name: 253

3、有收到三类路由：

[B21/32U]display bgp l2vpn evpn route-type imet

BGP local router ID is 2.1.1.1

Status codes: * - valid, > - best, d - dampened, h - history

s - suppressed, S - stale, i - internal, e - external

a - additional-path

Origin: i - IGP, e - EGP, ? - incomplete

Total number of routes from all PEs: 1

Route distinguisher: 253:100

Total number of routes: 3

e Network : [3][0][32][10.10.1.1]/80

NextHop : 10.10.1.1 LocPrf :

PrefVal : 0 OutLabel : NULL

MED :

Path/Ogn: 1?

* > Network : [3][0][32][38.1.1.2]/80

NextHop : 1.1.1.2 LocPrf : 100

PrefVal : 32768 OutLabel : NULL

MED : 0

Path/Ogn: i

* > Network : [3][0][32][39.1.1.1]/80

NextHop : 2.1.1.1 LocPrf : 100

PrefVal : 32768 OutLabel : NULL

MED : 0

Path/Ogn: i

4、没有五类：

5、RT RD配置无一致：

#

vsi 253

arp suppression enable

vxlan 253

evpn encapsulation vxlan

route-distinguisher 253:100

```
vpn-target 253:100 export-extcommunity
vpn-target 253:100 import-extcommunity
```

```
#
```

```
对端:
```

```
#
```

```
evpn vpn-instance evpn253 bd-mode
route-distinguisher 253:100
vpn-target 253:100 export-extcommunity
vpn-target 253:100 import-extcommunity
```

```
#
```

```
路由学习正常:
```

```
[B21/32U]display bgp l2vpn evpn peer 1.1.1.1 received-routes
```

```
Total number of routes: 1
```

```
BGP local router ID is 2.1.1.1
```

```
Status codes: * - valid, > - best, d - dampened, h - history
```

```
          s - suppressed, S - stale, i - internal, e - external
```

```
          a - additional-path
```

```
          Origin: i - IGP, e - EGP, ? - incomplete
```

```
Route distinguisher: 253:100
```

```
Total number of routes: 1
```

```
  e Network : [3][0][32][10.10.1.1]/80
```

```
  NextHop : 10.10.1.1
```

```
  LocPrf : 
```

```
  PrefVal : 0
```

```
  OutLabel : NULL
```

```
  MED : 
```

```
  Path/Ogn: 1?
```

```
查看路由明细:
```

```
[B20/32U-probe]dis bgp l2vpn evpn route-type imet [3][0][32][10.10.1.1]/80
```

```
BGP local router ID: 2.1.1.1
```

```
Local AS number: 11
```

```
Route distinguisher: 253:100
```

```
Total number of routes: 1
```

```
  Paths: 1 available, 1 best
```

```
  BGP routing table information of [3][0][32][10.10.1.1]/80:
```

```
  From : 1.2.2.1 (10.10.1.1)
```

```
  Rely nexthop : not resolved
```

```
  Original nexthop: 10.10.1.1
```

```
  OutLabel : NULL
```

```
  Ext-Community : <RT: 253:100>, <Encapsulation Type: VXLAN>
```

```
  RxPathID : 0x0
```

```
  TxPathID : 0xffffffff
```

```
  PMSI tunnel : Flag 0, TunnelType 6, Label 253, EndPointAddress 10.10.1.1
```

```
  AS-path : 1
```

```
  Origin : incomplete
```

```
  Attribute value : pref-val 0
```

```
  State : external
```

```
  IP precedence : N/A
```

```
  QoS local ID : N/A
```

```
  Traffic index : N/A
```

```
  EVPN route type : Inclusive multicast Ethernet tag route
```

```
  Ethernet tag ID : 0
```

```
  Origin address : 10.10.1.1/32
```

```
  Re-origination : Disabled
```

查看本端收到的三类路由信息明细，看Rely nexthop记录为not resolved，即没有迭代出下一跳地址；

1.1.1.1是个直连ebgp邻居，由于直连ebgp只能迭代直连，路由的原始下一跳10.10.1.1没有对应的直连路由，迭代失败了；

解决方法

本端可以配置peer ebgp-max-hop，改成非直连邻居，则迭代不再限制直连协议；