

知 不同vpn实例间通过路由策略引入部分直连路由不成功

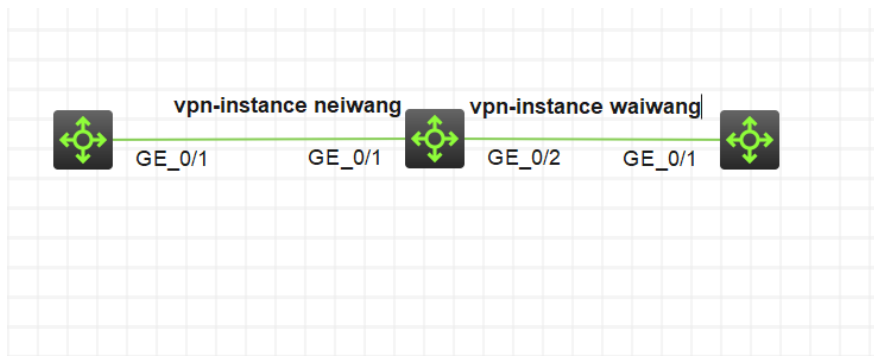
VPN实例

路由策略

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2021-04-15 发表

组网及说明



g1/0/1属于neiwang实例，g1/0/2属于waiwang实例

问题描述

neiwang实例引入waiwang实例全部直连路由，waiwang实例引入neiwang实例部分直连路由
neiwang实例路由表正常

```
[H3C]dis ip routing-table vpn-instance neiwang

Destinations : 16          Routes : 16

Destination/Mask    Proto   Pre  Cost           NextHop         Interface
0.0.0.0/32          Direct  0    0              127.0.0.1       InLoop0
1.1.1.0/24          Direct  0    0              1.1.1.1         GE1/0/1
1.1.1.0/32          Direct  0    0              1.1.1.1         GE1/0/1
1.1.1.1/32          Direct  0    0              127.0.0.1       InLoop0
1.1.1.255/32        Direct  0    0              1.1.1.1         GE1/0/1
2.2.2.0/24          Direct  0    0              2.2.2.1         GE1/0/2
2.2.2.0/32          Direct  0    0              2.2.2.1         GE1/0/2
2.2.2.1/32          Direct  0    0              127.0.0.1       InLoop0
2.2.2.255/32        Direct  0    0              2.2.2.1         GE1/0/2
127.0.0.0/8         Direct  0    0              127.0.0.1       InLoop0
127.0.0.0/32        Direct  0    0              127.0.0.1       InLoop0
127.0.0.1/32        Direct  0    0              127.0.0.1       InLoop0
127.255.255.255/32  Direct  0    0              127.0.0.1       InLoop0
224.0.0.0/4         Direct  0    0              0.0.0.0         NULL0
224.0.0.0/24        Direct  0    0              0.0.0.0         NULL0
255.255.255.255/32  Direct  0    0              127.0.0.1       InLoop0
```

外网实例路由表引入不成功

```
[H3C]dis ip routing-table vpn-instance waiwang

Destinations : 12          Routes : 12

Destination/Mask    Proto   Pre  Cost           NextHop         Interface
0.0.0.0/32          Direct  0    0              127.0.0.1       InLoop0
2.2.2.0/24          Direct  0    0              2.2.2.1         GE1/0/2
2.2.2.0/32          Direct  0    0              2.2.2.1         GE1/0/2
2.2.2.1/32          Direct  0    0              127.0.0.1       InLoop0
2.2.2.255/32        Direct  0    0              2.2.2.1         GE1/0/2
127.0.0.0/8         Direct  0    0              127.0.0.1       InLoop0
127.0.0.0/32        Direct  0    0              127.0.0.1       InLoop0
127.0.0.1/32        Direct  0    0              127.0.0.1       InLoop0
127.255.255.255/32  Direct  0    0              127.0.0.1       InLoop0
224.0.0.0/4         Direct  0    0              0.0.0.0         NULL0
224.0.0.0/24        Direct  0    0              0.0.0.0         NULL0
255.255.255.255/32  Direct  0    0              127.0.0.1       InLoop0
[H3C]
```

过程分析

分析配置

```
[H3C]dis cu configuration vpn
#
ip vpn-instance neiwang
#
address-family ipv4
route-replicate from vpn-instance waiwang protocol direct
#
ip vpn-instance waiwang
#
address-family ipv4
route-replicate from vpn-instance neiwang protocol direct route-policy neiwang
#
[H3C]dis cu configuration route-policy
#
route-policy neiwang permit node 10
if-match ip address acl 3001
#
[H3C]dis acl 3001
Advanced IPv4 ACL 3001, 1 rule,
ACL"s step is 5
rule 0 permit ip vpn-instance neiwang source 1.1.1.0 0.0.0.255
```

乍一看没什么问题，但是查询手册路由策略章节会发现if-match语句
路由策略使用非VPN的ACL进行路由过滤

解决方法

重新改写acl 3001

```
[H3C]acl advanced 3001
```

```
[H3C-acl-ipv4-adv-3001]rule 10 permit ip source 1.1.1.0 0.0.0.0
```

此时查看waiwang实例路由表

```
[H3C]dis ip routing-table vpn-instance waiwang
```

Destinations : 14

Routes : 14

Destination/Mask	Proto	Pre	Cost	NextHop	Interface
0.0.0.0/32	Direct	0	0	127.0.0.1	InLoop0
1.1.1.0/24	Direct	0	0	1.1.1.1	GE1/0/1
1.1.1.0/32	Direct	0	0	1.1.1.1	GE1/0/1
2.2.2.0/24	Direct	0	0	2.2.2.1	GE1/0/2
2.2.2.0/32	Direct	0	0	2.2.2.1	GE1/0/2
2.2.2.1/32	Direct	0	0	127.0.0.1	InLoop0
2.2.2.255/32	Direct	0	0	2.2.2.1	GE1/0/2
127.0.0.0/8	Direct	0	0	127.0.0.1	InLoop0
127.0.0.0/32	Direct	0	0	127.0.0.1	InLoop0
127.0.0.1/32	Direct	0	0	127.0.0.1	InLoop0
127.255.255.255/32	Direct	0	0	127.0.0.1	InLoop0
224.0.0.0/4	Direct	0	0	0.0.0.0	NULL0
224.0.0.0/24	Direct	0	0	0.0.0.0	NULL0
255.255.255.255/32	Direct	0	0	127.0.0.1	InLoop0

```
[H3C]
```

