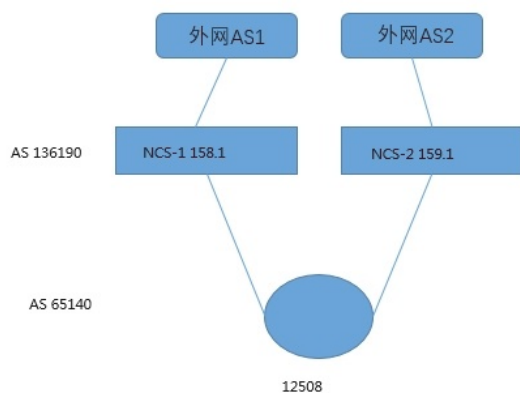


知 S12508F-AF EBGp load balance problem

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Network Topology



12508 does EBGp with two uplink devices, and the neighbor relationship is normal.
Interconnect 158.1 and 159.1 are 4 100G ports respectively.

12508>dis int brief | in NCS

HGE1/2/0/2	UP	UP	220.185.63.198
HGE1/2/0/3	UP	UP	220.185.63.182
HGE1/2/0/4	UP	UP	220.185.63.186
HGE1/2/0/5	UP	UP	220.185.63.194
HGE2/2/0/1	UP	UP	220.185.63.190
HGE2/2/0/3	UP	UP	220.185.63.210
HGE2/2/0/4	UP	UP	220.185.63.202
HGE2/2/0/5	DOWN	DOWN	220.185.63.206

Problem Description

Configure load balancing in the EBGp IPV4 address family as follows, used to advertise two default routes to 12508,

12508 configuration

```
peer 61.130.158.1 as-number 136190
peer 61.130.158.1 group pgJHIDC
peer 61.130.158.1
peer 61.130.159.1 as-number 136190
```

```
address-family ipv4 unicast
```

```
dampening
```

```
balance ebgp 8 \The relevant explanation is:
```

```
https://www.h3c.com/cn/d\_202001/1259040\_30005\_0.htm#aa\_15
```

```
preference 20 200 200
```

But after configuring load balancing, check the routing table and see that there are only two interfaces for the next hop interface

```
S12508>dis ip routing-table 0.0.0.0
```

```
Summary Count: 2
```

```
Destination/Mask Proto Pre Cost NextHop Interface
```

```
0.0.0.0/0 BGP 20 0 61.130.158.1 HGE1/2/0/4
```

```
0.0.0.0/0 BGP 20 0 61.130.159.1 HGE2/2/0/4
```

View the BGP routing table,

```
<S12508>dis bgp routing-table ipv4 0.0.0.0
```

```
BGP local router ID: 220.185.58.223
```

```
Local AS number: 65140
```

```
Paths: 2 available, 2 best
```

BGP routing table information of 0.0.0.0/0:

From: 61.130.158.1 (61.130.158.1)

Relay nexthop: 220.185.63.185

Original nexthop: 61.130.158.1

OutLabel: NULL

AS-path: 136190 4134

Origin: igp

Attribute value: pref-val 0

State: valid, external, best,

From: 61.130.159.1 (61.130.159.1)

Relay nexthop: 220.185.63.181

Original nexthop: 61.130.159.1

OutLabel: NULL

AS-path: 136190 4134

Origin: igp

Attribute value: pref-val 0

State: valid, external, best,

The current temporary replacement using eight default routes is not convenient for testing.

The following are manually configured static routes:

<S12508>display ip routing-table 0.0.0.0

Summary Count: 9

Destination/Mask Proto Pre Cost NextHop Interface

0.0.0.0/0 Static 10 0 220.185.63.181 HGE1/2/0/3

220.185.63.185 HGE1/2/0/4

220.185.63.189 HGE2/2/0/1

220.185.63.193 HGE1/2/0/5

220.185.63.197 HGE1/2/0/2

220.185.63.201 HGE2/2/0/4

220.185.63.205 HGE2/2/0/5

220.185.63.209 HGE2/2/0/3

Process Analysis

You can display fib 0.0.0.0 0 to see if there are 8 next hops in the default route.

The next hop in the ip routing table that iterates through EBGp routes on our device shows the next hop before the iteration.

The next hop is the loopback address of the NCS. When it is actually forwarded, it will iterate to the remaining interfaces. fib table view.

Solution

This phenomenon is normal.

The display result of the current version of the platform is before the iteration. There are mentions of demand rectification. After E3603P01, it is the display result of B75 rectification.