

知 某客户S6800一个网段不通

转发不通 软件问题 李鹏飞 2022-04-01 发表

组网及说明

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问题描述

源: 9.99.69.107 目的: 9.99.70.86

流量经过这台6800设备, 有不通的情况, 做了流统发现确实流量只有进的没有出的

```
0 (Packets)
[DG-ZXAM-OC3-160G-A27-H6800-LA-06] dis qos policy global
Direction: Inbound
Policy: policy_1
Classifier: classifier_1
Operator: AND
Rule(s) :
If-match acl 3000
Behavior: behavior_1
Accounting enable:
209 (Packets)

Direction: outbound
Policy: policy_1
Classifier: classifier_1
Operator: AND
Rule(s) :
If-match acl 3000
Behavior: behavior_1
Accounting enable:
0 (Packets)

[DG-ZXAM-OC3-160G-A27-H6800-LA-06]
```

过程分析

从收集信息看, 9.99.70.86 走网段路由9.99.70.64/26, 但是defip没有这个网段的表项, 正常情况下, 一个entry可以存放两条defip表项

```
<DG-ZXAM-OC3-160G-A27-H6800-LA-06>dis fib 9.99.70.86
```

```
Destination count: 1 FIB entry count: 2
```

```
Flag:
```

```
U:Useable G:Gateway H:Host B:Blackhole D:Dynamic S:Static
R:Relay F:FRR
```

Destination/Mask	NextHop	Flag	OutInterface/Token	Label
9.99.70.64/26	9.99.71.10	UGR	RAGG1	Null
9.99.70.64/26	9.99.71.42	UGR	RAGG2	Null

```
1537 0 9.99.69.64/26 00:00:00:00:00:00 100001 0 0 0 32 n
1537 1 121.12.115.64/26 00:00:00:00:00:00 100001 0 0 0 32 n
1538 0 9.99.68.192/26 00:00:00:00:00:00 200000 0 0 0 32 y (ECMP)
1538 0 9.99.69.0/26 00:00:00:00:00:00 200000 0 0 0 32 y (ECMP)
1539 0 9.99.69.192/26 00:00:00:00:00:00 200000 0 0 0 32 y (ECMP)
1539 0 9.99.69.128/26 00:00:00:00:00:00 200000 0 0 0 32 y (ECMP)
1540 0 9.99.68.0/26 00:00:00:00:00:00 200000 0 0 0 32 y (ECMP)
1540 0 9.99.68.64/26 00:00:00:00:00:00 200000 0 0 0 32 y (ECMP)
1541 0 9.99.68.128/26 00:00:00:00:00:00 200000 0 0 0 32 y (ECMP)
1541 0 9.99.70.0/26 00:00:00:00:00:00 200000 0 0 0 32 y (ECMP)
1542 0 9.99.69.64/26 00:00:00:00:00:00 100001 0 0 0 32 n
1793 0 192.168.5.0/24 00:00:00:00:00:00 100001 0 0 0 32 n
1793 0 192.168.105.0/24 00:00:00:00:00:00 100001 0 0 0 32 n
1794 0 192.168.103.0/24 00:00:00:00:00:00 200000 0 0 0 32 n (ECMP)
1794 0 192.168.3.0/24 00:00:00:00:00:00 200000 0 0 0 32 n (ECMP)
```

当前版本是2510p01, 该版本存在parity error修复sdk会误删表项的已知问题, 通过诊断可以看到3defip表中, entry 1537和1542曾发生过parity error, 但是现场设备的时间不是准确的, 现场出问题大概多久了

```
=====display device=====
```

Slot Type	State	Subslot	Soft Ver	Patch Ver
1 S6800-54QT	Master	0	2510P01	None

```
=====display clock=====
```

```
07:57:28 BeiJing Thu 02/20/2014
```

```
Time Zone : BeiJing add 08:00:00
```

```
Line 5233: %May 23 15:29:10:205 2013 DG-ZXAM-OC3-160G-A27-H6800-LA-06 DRVPLAT/4/Log Info: Slot 1,unit 0 L3_DEFIP entry 1537 parity error.
```

```
Line 5235: %May 23 15:29:10:205 2013 DG-ZXAM-OC3-160G-A27-H6800-LA-06 DRVPLAT/4/Log Info: Slot 1,unit 0 L3_DEFIP entry 1537 parity error. RECOVERED
```

```
Line 5309: %Jun 16 09:16:20:172 2013 DG-ZXAM-OC3-160G-A27-H6800-LA-06 DRVPLAT/4/Log Info: Slot 1,unit 0 L3_DEFIP entry 1542 parity error.
```

```
Line 5311: %Jun 16 09:16:20:172 2013 DG-ZXAM-OC3-160G-A27-H6800-LA-06 DRVPLAT/4/Log Info: Slot 1,unit 0 L3_DEFIP entry 1542 parity error. RECOVERED
```

从打印的defip表上下文中, 推测9.99.70.64/26应该是存放在1542的位置, 应该是9.99.70.64/26表项也就是entry 1542存放的ip_addr0发生了parity error, sdk修复时存在一定概率, 导致这个表项被清空

解决方法

可以下发一个长掩码明细路由规避或者重启，彻底解决的话需要升级版本

