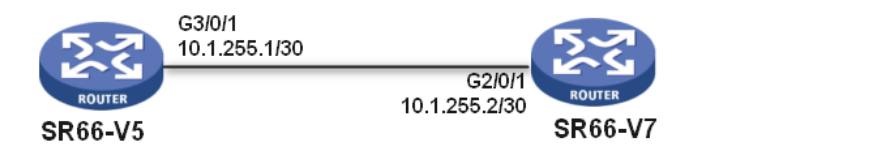


组网及说明



SR6608 R2604P01
SR6608 R7103P05

问题描述

客户采用SR66v5和SR66v7路由器做bfd for BGP，bfd会话无法建立

过程分析

1.通过debugging bfd all 分析，发现报文有收有发，但是debug有提示“Direct not match. Discard packet.”

debugging bfd all

*Nov 22 14:44:10:081 2018 H3C BFD/7/DEBUG: -Slot=2; [K]Recv:Ctrl packet, Src:10.1.255.1, Dst:10.1.255.2, Ver:1, Diag:0, Sta:2 P/F/C/A/D/M:0/0/1/0/0/0, Mult:5 LD/RD:1124/12289, Tx:400ms, Rx:400ms, EchoRx:0ms

*Nov 22 14:44:10:887 2018 H3C BFD/7/DEBUG: Direct not match. Discard packet.

*Nov 22 14:44:11:849 2018 H3C BFD/7/DEBUG: Send:Ctrl packet, Src:10.1.255.2, Dst:10.1.255.1, Ver:1, Diag:0, Sta:1 P/F/C/A/D/M:0/0/1/0/0/0, Mult:5 LD/RD:12289/0, Tx:1000ms, Rx:1000ms, EchoRx:400ms

*Nov 22 14:44:11:081 2018 H3C BFD/7/DEBUG: -Slot=2; [K]Recv:Ctrl packet, Src:10.1.255.1, Dst:10.1.255.2, Ver:1, Diag:0, Sta:2 P/F/C/A/D/M:0/0/1/0/0/0, Mult:5 LD/RD:1124/12289, Tx:400ms, Rx:400ms, EchoRx:0ms *Nov 22 14:44:11:887 2018 H3C BFD/7/DEBUG: Direct not match. Discard packet.

2.检查配置以及BFD状态，通过BFD的状态可以发现SR66-V5 Connect Type为Direct，SR66-V7 Connect Type为Indirect，由于Connect Type不匹配，导致BFD会话无法建立。

SR6608-Release 2604P01	SR6608-Release 7103P05
<pre>bgp 65413 router-id x.x.x.x peer 10.1.255.2 route-policy set_FZ import peer 10.1.255.2 ebgp-max-hop 2 peer 10.1.255.2 timer keepalive 10 hold 30 peer 10.1.255.2 bfd # interface GigabitEthernet3/0/1 port link-mode route description 营业部_电信 combo enable fiber duplex full ip address 10.1.255.1 255.255.255.252 ip netstream inbound ip netstream outbound</pre>	<pre>bgp 64981 router-id x.x.x.x peer 10.1.255.1 as-number 65413 peer 10.1.255.1 ebgp-max-hop 2 peer 10.1.255.1 timer keepalive 10 hold 30 peer 10.1.255.1 bfd # interface GigabitEthernet2/0/1 port link-mode route description FJ1_WN_AR03-G3/0/1 ip address 10.1.255.2 255.255.255.252 #</pre>

dis bfd session verbose	dis bfd session verbose
Total Session Num: 9	Total Session Num: 1 Up Session Num: 0
Init Mode: Active	Init Mode: Active
IPv4 Session Working Under Ctrl Mode:	IPv4 Session Working Under Ctrl Mode:
Local Discr: 1124	Local Discr: 12289
Source IP: 10.1.255.1	Remote Discr: 0
Destination IP: 10.1.255.2	Source IP: 10.1.255.2
Session State: Init	Destination IP: 10.1.255.1
Interface: GigabitEthernet3/0/1	Session State: Down
Min Trans Inter: 400ms	Interface: N/A
Act Trans Inter: 1000ms	Min Tx Inter: 400ms
Min Recv Inter: 400ms	Act Tx Inter: 1000ms
Act Detect Inter: 500ms	Min Rx Inter: 400ms
Running Up for: 00:00:00	Detect Inter: 5000ms
Auth mode: None	Rx Count: 0
Connect Type: Direct	Tx Count: 18401
Board Num: 0	Connect Type: Indirect
Protocol: BGP	Running Up for: 00:00:00
Diag Info: No Diagnostic	Hold Time: 0ms
	Auth mode: None
	Detect Mode: Async
	Slot: 0
	Protocol: BGP
	Diag Info: No Diagnostic

3.由于V5与V7实现机制有差异，V7在直连EBGP环境中配置了peer X.X.X.X ebgp-max-hop Y命令后，BFD Connect Type变为Indirect，V5配置该命令没有影响。

解决方法

- 方法1：V7设备配置bfd single-hop
- 方法2：V7设备删除ebgp-max-hop