

知 bgp notification报文的差别

BGP 赵卓 2021-12-14 发表

问题描述

测试了undo peer和peer ignore都会发送Notification，但是报文错误码内容不同，交换机收到这两种报文会有什么不同的处理机制吗

截图1 undo peer

153	08:32:54.096	192.168.1.1	192.168.1.2	BGP	87 NOTIFICATION Message
154	08:32:54.096	192.168.1.1	192.168.1.2	TCP	66 16321 → 179 [FIN, ACK] Seq=60 Ac
155	08:32:54.097	192.168.1.2	192.168.1.1	TCP	66 179 → 16321 [ACK] Seq=39 Ack=60
156	08:32:54.097	192.168.1.2	192.168.1.1	TCP	66 179 → 16321 [ACK] Seq=39 Ack=61
157	08:32:54.097	192.168.1.2	192.168.1.1	TCP	66 179 → 16321 [FIN, ACK] Seq=39 Ac
158	08:32:54.097	192.168.1.1	192.168.1.2	TCP	66 16321 → 179 [ACK] Seq=61 Ack=40
Frame 153: 87 bytes on wire (696 bits), 87 bytes captured (696 bits)					
Ethernet II, Src: Shenzhen_14:07:04:06 (78:c2:d4:07:04:06), Dst: Shenzhen_0d:75:03:06 (78:c2:cd:75:03:06)					
Internet Protocol Version 4, Src: 192.168.1.1, Dst: 192.168.1.2					
Transmission Control Protocol, Src Port: 16321, Dst Port: 179, Seq: 39, Ack: 39, Len: 21					
Border Gateway Protocol - NOTIFICATION Message					
Marker: ff ff ff ff ff ff ff ff ff ff ff ff ff ff ff ff					
Length: 21					
Type: NOTIFICATION Message (3)					
Major error Code: Cease (6)					
Minor error Code (Cease): Other Configuration Change (6)					

图2 peer ignore

55	08:11:42.600	192.168.1.1	192.168.1.2	BGP	87 NOTIFICATION Message
92	08:12:05.797	192.168.1.1	192.168.1.2	BGP	115 OPEN Message
94	08:12:05.797	192.168.1.2	192.168.1.1	BGP	115 OPEN Message
96	08:12:05.797	192.168.1.1	192.168.1.2	BGP	85 KEEPALIVE Message
97	08:12:05.797	192.168.1.2	192.168.1.1	BGP	85 KEEPALIVE Message
100	08:12:05.845	192.168.1.2	192.168.1.1	BGP	89 UPDATE Message
102	08:12:06.792	192.168.1.1	192.168.1.2	BGP	89 UPDATE Message
Frame 55: 87 bytes on wire (696 bits), 87 bytes captured (696 bits)					
Ethernet II, Src: Shenzhen_14:07:04:06 (78:c2:d4:07:04:06), Dst: Shenzhen_0d:75:03:06 (78:c2:cd:75:03:06)					
Internet Protocol Version 4, Src: 192.168.1.1, Dst: 192.168.1.2					
Transmission Control Protocol, Src Port: 16320, Dst Port: 179, Seq: 1, Ack: 20, Len: 21					
Border Gateway Protocol - NOTIFICATION Message					
Marker: ff ff ff ff ff ff ff ff ff ff ff ff ff ff ff ff					
Length: 21					
Type: NOTIFICATION Message (3)					
Major error Code: Cease (6)					
Minor error Code (Cease): Administratively Shutdown (2)					

解决方法

交换 BGP 对两种错误码处理没有区别，都是断邻居后重连。

