

知 某局点SeerEngine-WAN 5.3期，控制器下发路由器配置，所有tunnel口都是down状态

BGP ADWAN解决方案 唐广 2023-04-24 发表

问题描述

某局点SeerEngine-WAN 5.3期，控制器下发路由器配置，所有tunnel口都是down状态

```
Tun1 ADM DOWN 10.10.10.1 ADWAN-Tunnel-1
Tun2 ADM DOWN 10.10.10.2 ADWAN-Tunnel-2
Tun3 ADM DOWN 10.10.10.3 ADWAN-Tunnel-3
Tun4 ADM DOWN 10.10.10.4 ADWAN-Tunnel-4
Tun5 ADM DOWN 10.10.10.5 ADWAN-Tunnel-5
Tun6 ADM DOWN 10.10.10.6 ADWAN-Tunnel-6
Tun7 ADM DOWN 10.10.10.7 ADWAN-Tunnel-7
Tun8 ADM DOWN 10.10.10.8 ADWAN-Tunnel-8
Tun9 ADM DOWN 10.10.10.9 ADWAN-Tunnel-9
Tun10 ADM DOWN 10.10.10.10 ADWAN-Tunnel-10
Tun11 ADM DOWN 10.10.10.11 ADWAN-Tunnel-11
Tun12 ADM DOWN 10.10.10.12 ADWAN-Tunnel-12
Tun13 ADM DOWN 10.10.10.13 ADWAN-Tunnel-13
Tun14 ADM DOWN 10.10.10.14 ADWAN-Tunnel-14
Tun15 ADM DOWN 10.10.10.15 ADWAN-Tunnel-15
Tun16 ADM DOWN 10.10.10.16 ADWAN-Tunnel-16
Tun17 ADM DOWN 10.10.10.17 ADWAN-Tunnel-17
Tun18 ADM DOWN 10.10.10.18 ADWAN-Tunnel-18
Tun19 ADM DOWN 10.10.10.19 ADWAN-Tunnel-19
Tun20 ADM DOWN 10.10.10.20 ADWAN-Tunnel-20
Tun21 ADM DOWN 10.10.10.21 ADWAN-Tunnel-21
Tun22 ADM DOWN 10.10.10.22 ADWAN-Tunnel-22
Tun23 ADM DOWN 10.10.10.23 ADWAN-Tunnel-23
Tun24 ADM DOWN 10.10.10.24 ADWAN-Tunnel-24
Tun25 ADM DOWN 10.10.10.25 ADWAN-Tunnel-25
Tun26 ADM DOWN 10.10.10.26 ADWAN-Tunnel-26
Tun27 ADM DOWN 10.10.10.27 ADWAN-Tunnel-27
Tun28 ADM DOWN 10.10.10.28 ADWAN-Tunnel-28
```

过程分析

1、路由器配置了bgp，且一直跳下图日志，目前看起来是bgp邻居震荡，反复的established到idle到established，established的状态保持的时间较长，idle随时间很短，很快就切换到了established

```
terface:NA, SessType:Ctrl, LinkType:INET], Ver:1, Sta: INIT->UP, Diag: 0 (No Diagnostic)
*Apr 11 12:33:02:387 2023 ZSCN-KG-HJ-SR6604-DDN03 PING/6/PING_STATISTICS: -MDC=1; Ping statistics for 10.254.252.32: 5 packet(s) trans
mitted, 0 packet(s) received, 100.0% packet loss.
*Apr 11 12:33:39:056 2023 ZSCN-KG-HJ-SR6604-DDN03 BFD/5/BFD_CHANGE_FSM: -MDC=1; Sess[10.254.253.31/10.254.253.1, LD/RD:58115/60205, In
terface:NA, SessType:Ctrl, LinkType:INET], Ver:1, Sta: UP->DOWN, Diag: 3 (Neighbor Signaled Session Down)
*Apr 11 12:33:39:057 2023 ZSCN-KG-HJ-SR6604-DDN03 BGP/5/BGP_STATE_CHANGED: -MDC=1;
BGP: 10.254.253.1 state has changed from ESTABLISHED to IDLE for session down event received from BFD.
*Apr 11 12:33:39:059 2023 ZSCN-KG-HJ-SR6604-DDN03 BFD/5/BFD_CHANGE_FSM: -MDC=1; Sess[10.254.253.31/10.254.253.1, LD/RD:58115/60205, Inter
face:NA, SessType:Ctrl, LinkType:INET], Ver:1, Sta: Deleted, Diag: 3 (Neighbor Signaled Session Down)
*Apr 11 12:33:41:074 2023 ZSCN-KG-HJ-SR6604-DDN03 BGP/5/BGP_STATE_CHANGED: -MDC=1;
BGP: 10.254.253.1 state has changed from OPENCONFIRM to ESTABLISHED.
*Apr 11 12:33:41:093 2023 ZSCN-KG-HJ-SR6604-DDN03 BFD/5/BFD_CHANGE_FSM: -MDC=1; Sess[10.254.253.31/10.254.253.1, LD/RD:58117/60207, In
terface:NA, SessType:Ctrl, LinkType:INET], Ver:1, Sta: DOWN->INIT, Diag: 0 (No Diagnostic)
*Apr 11 12:33:41:094 2023 ZSCN-KG-HJ-SR6604-DDN03 BFD/5/BFD_CHANGE_FSM: -MDC=1; Sess[10.254.253.31/10.254.253.1, LD/RD:58117/60207, In
terface:NA, SessType:Ctrl, LinkType:INET], Ver:1, Sta: INIT->UP, Diag: 0 (No Diagnostic)
*Apr 11 12:34:07:075 2023 ZSCN-KG-HJ-SR6604-DDN03 BFD/5/BFD_CHANGE_FSM: -MDC=1; Sess[10.254.253.31/10.254.253.2, LD/RD:58116/57369, In
terface:NA, SessType:Ctrl, LinkType:INET], Ver:1, Sta: UP->DOWN, Diag: 3 (Neighbor Signaled Session Down)
*Apr 11 12:34:07:076 2023 ZSCN-KG-HJ-SR6604-DDN03 BGP/5/BGP_STATE_CHANGED: -MDC=1;
BGP: 10.254.253.2 state has changed from ESTABLISHED to IDLE for session down event received from BFD.
*Apr 11 12:34:07:076 2023 ZSCN-KG-HJ-SR6604-DDN03 BFD/5/BFD_CHANGE_FSM: -MDC=1; Sess[10.254.253.31/10.254.253.2, LD/RD:58116/0, Inter
face:NA, SessType:Ctrl, LinkType:INET], Ver:1, Sta: Deleted, Diag: 3 (Neighbor Signaled Session Down)
*Apr 11 12:34:08:916 2023 ZSCN-KG-HJ-SR6604-DDN03 BGP/5/BGP_STATE_CHANGED: -MDC=1;
BGP: 10.254.253.2 state has changed from OPENCONFIRM to ESTABLISHED.
*Apr 11 12:34:08:917 2023 ZSCN-KG-HJ-SR6604-DDN03 BFD/5/BFD_CHANGE_FSM: -MDC=1; Sess[10.254.253.31/10.254.253.2, LD/RD:58118/57369, In
terface:NA, SessType:Ctrl, LinkType:INET], Ver:1, Sta: DOWN->INIT, Diag: 0 (No Diagnostic)
*Apr 11 12:34:08:937 2023 ZSCN-KG-HJ-SR6604-DDN03 BFD/5/BFD_CHANGE_FSM: -MDC=1; Sess[10.254.253.31/10.254.253.2, LD/RD:58118/57369, In
terface:NA, SessType:Ctrl, LinkType:INET], Ver:1, Sta: INIT->UP, Diag: 0 (No Diagnostic)
```

2、查看VPNv4的邻居是保持建立的

```
<ZSCN-KG-HJ-SR6604-DDN01>dis bgp peer vpnv4
BGP local router ID: 10.254.253.29
Local AS number: 65535
Total number of peers: 2 Peers in established state: 2
* - Dynamically created peer
Peer AS MsgRcvd MsgSent OutQ PrefRcv Up/Down State
10.254.253.31 65535 67075 11616 0 296 0181h36m Established
10.254.253.2 65535 180618 13817 0 296 0181h36m Established
```

解决方法

检查现场设备WAN口未配置TCP MSS命令。在WAN口下配置TCP MSS 1200后恢复。

