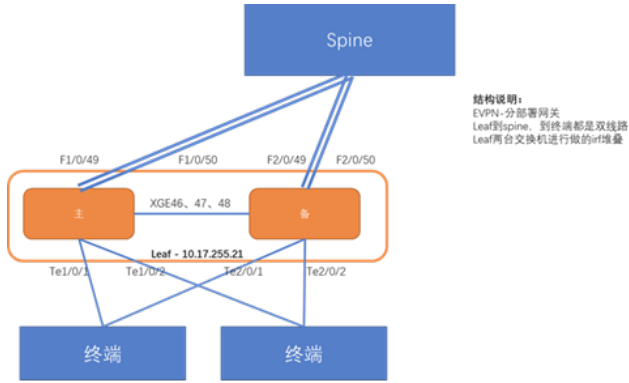


某局点S6520X-54QC-EI evpn堆叠切换导致隧道断裂

堆叠 EVPN 赵广旭 2022-03-28 发表

组网及说明



分布式EVPN组网，S6520X-EI作为leaf设备。两台设备堆叠

问题描述

客户通过重启主框设备来测试主框设备异常时候，备框承担这部分业务场景时，隧道直接down掉，相关接口也down了。等待到备设备状态变为master之后，隧道重新up，相关隧道重新建立。穿过设备的访问流量中断了2分钟左右。

```
%Mar 24 00:36:26:324 2022 TALBJ-SY_A01&A02_41U_S6520-M IFNET/5/LINK_UPDOWN: Line protocol state on the interface Tunnel11 changed to down. <TALBJ-SY_A01&A02_41U_S6520-M>%Mar 24 00:36:26:507 2022 TALBJ-SY_A01&A02_41U_S6520-M IFNET/3/PHY_UPDOWN: Physical state on the interface Vsi-interface20076 changed to down. %Mar 24 00:36:26:507 2022 TALBJ-SY_A01&A02_41U_S6520-M IFNET/3/PHY_UPDOWN: Physical state on the interface Vsi-interface20066 changed to down. %Mar 24 00:36:26:508 2022 TALBJ-SY_A01&A02_41U_S6520-M IFNET/3/PHY_UPDOWN: Physical state on the interface Vsi-interface20075 changed to down. %Mar 24 00:36:26:508 2022 TALBJ-SY_A01&A02_41U_S6520-M IFNET/3/PHY_UPDOWN: Physical state on the interface Vsi-interface20301 changed to down. %Mar 24 00:36:26:508 2022 TALBJ-SY_A01&A02_41U_S6520-M IFNET/3/PHY_UPDOWN: Physical state on the interface Vsi-interface20078 changed to down.
. =====display irf=====
```

MemberID Role Priority CPU-Mac Description

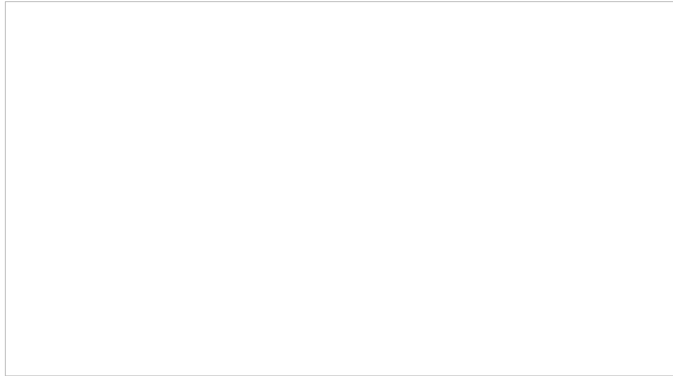
1 Standby 20 f010-90db-7402 ---

*+2 Master 10 f010-90db-7403 ---

过程分析

从slot1重启, slot2变成主板后, 可以看到ospf和bgp的一些状态变化, %Mar 24 00:35:18:532 2022 TALBJ-SY_A01&A02_41U_S6520-M HA/5/HA_STANDBY_TO_MASTER: Standby board in slot 2 changed to master. %Mar 24 00:35:18:858 2022 TALBJ-SY_A01&A02_41U_S6520-M DEV/2/BOARD_S TATE_FAULT: Board state changed to Fault on slot 1, type is
MAIN_BOARD_TYPE_S6520X_54QC_EI. %Mar 24 00:35:20:271 2022 TALBJ-SY_A01&A02_41U_S6520-M OSPF/5/OSPF_NBR_CHG: OSPF 1 Neighbor 10.17.252.10(FortyGigE2/0/50) changed from LOADING to FULL. %Mar 24 00:35:21:548 2022 TALBJ-SY_A01&A02_41U_S6520-M OSPF/5/OSPF_NBR_CHG: OSPF 1 Neighbor 10.17.253.10(FortyGigE2/0/49) changed from LOADING to FULL. %Mar 24 00:35:27:598 2022 TALBJ-SY_A01&A02_41U_S6520-M BGP/5/BGP_STATE_CHANGED: BGP.: 10.17.255.2 state has changed from OPENCONFIRM to ESTABLISHED. %Mar 24 00:35:36:576 2022 TALBJ-SY_A01&A02_41U_S6520-M SSSH/6/SSHS_AUTH_SUCCESS: SSH user tal from 10.17.246.38 port 59452 passed password authentication. %Mar 24 00:35:36:660 2022 TALBJ-SY_A01&A02_41U_S6520-M SSSH/6/SSHS_CONNECT: SSH user tal (IP: 10.17.246.38) connected to the server successfully. %Mar 24 00:35:38:361 2022 TALBJ-SY_A01&A02_41U_S6520-M SSSH/6/SSHS_AUTH_SUCCESS: SSH user guolixin from 10.18.43.34 port 8825 passed password authentication. %Mar 24 00:35:38:463 2022 TALBJ-SY_A01&A02_41U_S6520-M SSSH/6/SSHS_CONNECT: SSH user guolixin (IP: 10.18.43.34) connected to the server successfully. %Mar 24 00:35:38:528 2022 TALBJ-SY_A01&A02_41U_S6520-M SHELL/5/SHELL_LOGIN: tal logged in from 10.17.246.38. %Mar 24 00:35:40:063 2022 TALBJ-SY_A01&A02_41U_S6520-M SHELL/5/SHELL_LOGIN: guolixin logged in from 10.18.43.34. %Mar 24 00:35:40:555 2022 TALBJ-SY_A01&A02_41U_S6520-M LLDP/6/LLDP_CREATE_NEIGHBOR: Nearest bridge agent neighbor created on port M-GigabitEthernet0/0/0 (IfIndex 781), neighbor's chassis ID is 084f-f941-3000, port ID is Gi1/0/45. %Mar 24 00:35:56:823 2022 TALBJ-SY_A01&A02_41U_S6520-M SSSH/6/SSHS_AUTH_SUCCESS: SSH user liguangyong from 10.18.54.42 port 51522 passed password authentication. %Mar 24 00:35:56:893 2022 TALBJ-SY_A01&A02_41U_S6520-M SSSH/6/SSHS_CONNECT: SSH user liguangyong (IP: 10.18.54.42) connected to the server successfully. %Mar 24 00:35:58:732 2022 TALBJ-SY_A01&A02_41U_S6520-M SHELL/5/SHELL_LOGIN: liguangyong logged in from 10.18.54.42. %Mar 24 00:35:59:612 2022 TALBJ-SY_A01&A02_41U_S6520-M SHELL/6/SHELL_CMD: -Line=vty1-IPAddr=10.18.43.34-User=guolixin; Command is ter mon %Mar 24 00:36:10:626 2022 TALBJ-SY_A01&A02_41U_S6520-M SHELL/6/SHELL_CMD: -Line=vty2-IPAddr=10.18.54.42-User=liguangyong; Command is dis version %Mar 24 00:36:20:959 2022 TALBJ-SY_A01&A02_41U_S6520-M SHELL/6/SHELL_CMD: -Line=vty0-IPAddr=10.17.246.38-User=tal; Command is sys %Mar 24 00:36:21:392 2022 TALBJ-SY_A01&A02_41U_S6520-M BGP/5/BGP_STATE_CHANGED: BGP.: 10.17.255.1 state has changed from OPENCONFIRM to ESTABLISHED. %Mar 24 00:36:23:919 2022 TALBJ-SY_A01&A02_41U_S6520-M SHELL/6/SHELL_CMD: -Line=vty0-IPAddr=10.17.246.38-User=tal; Command is display cur %Mar 24 00:36:26:323 2022 TALBJ-SY_A01&A02_41U_S6520-M IFNET/3/PHY_UPDOWN: Physical state on the interface Tunnel11 changed to down. %Mar 24 00:36:26:324 2022 TALBJ-SY_A01&A02_41U_S6520-M IFNET/5/LINK_UPDOWN: Line protocol state on the interface Tunnel11 changed to down. %Mar 24 00:36:26:507 2022 TALBJ-SY_A01&A02_41U_S6520-M IFNET/3/PHY_UPDOWN: Physical state on the interface Vsi-interface20076 changed to down. %Mar 24 00:36:26:507 2022 TALBJ-SY_A01&A02_41U_S6520-M IFNET/3/PHY_UPDOWN: Physical state on the interface Vsi-interface20066 changed to down. 查看ospf配置: ospf 1 silent-interface all undo silent-interface FortyGigE1/0/49 undo silent-interface FortyGigE1/0/50 undo silent-interface FortyGigE2/0/49 undo silent-interface FortyGigE2/0/50 bandwidth-reference 1000000 area 0.0.0.0 network 10.17.249.21 0.0.0.0 network 10.17.252.0 0.0.0.255 network 10.17.253.0 0.0.0.255 network 10.17.255.21 0.0.0.0.Ospf没有配置nsr, 倒换的话邻居肯定会down, 重建。

应该配置上non-stop-routing ,配置完成后问题解决



```
1.1.60 non-stop-routing
non-stop-routing命令用来使能OSPF协议的NSR功能。
undo non-stop-routing命令用来关闭OSPF协议的NSR功能。
【命令】
non-stop-routing
undo non-stop-routing
【缺省情况】
OSPF协议的NSR功能处于关闭状态。
【视图】
OSPF视图
【缺省用户角色】
network-admin
【使用指导】
各个进程的NSR功能是相互独立的，只对本进程生效。如果存在多个OSPF进程，建议在各个进程下使能OSPF NSR功能。
OSPF NSR特性与OSPF GR特性互斥，即non-stop-routing和graceful-restart命令互斥，不能同时配置。
【举例】
# 在OSPF进程100中使能NSR功能。
<Sysname> system-view
[Sysname] ospf 100
[Sysname-ospf-100] non-stop-routing
```

