

知 Core switch Severe latency bottleneck detected at E-Port 0

硬件相关 杨瑞泉 2020-06-26 发表

组网及说明

Brocade San Switch

问题描述

客户报修: San switch 有如下报错

2020/04/28-11:43:56, [AN-1010], 2524, FID 128, WARNING, CTIDC_SAN37_RACKF5, Severe latency bottleneck detected at E-Port 0.

2020/04/28-11:43:56, [AN-1010], 2525, FID 128, WARNING, CTIDC_SAN37_RACKF5, Severe latency bottleneck detected at E-Port 1.

过程分析

检查 errdump.

2020/04/28-11:43:56, [AN-1010], 2524, FID 128, WARNING, CTIDC_SAN37_RACKF5, Severe latency bottleneck detected at E-Port 0.

2020/04/28-11:43:56, [AN-1010], 2525, FID 128, WARNING, CTIDC_SAN37_RACKF5, Severe latency bottleneck detected at E-Port 1.

2020/05/21-06:32:27, [AN-1010], 2656, FID 128, WARNING, CTIDC_SAN37_RACKF5, Severe latency bottleneck detected at E-Port 0.

2020/05/21-06:32:27, [AN-1010], 2657, FID 128, WARNING, CTIDC_SAN37_RACKF5, Severe latency bottleneck detected at E-Port 1.

Index Port Address Media Speed State Proto

```
=====
0 0 250000 id N16 Online FC E-Port 10:00:c4:f5:7c:e6:3c:1c
"CTIDC_CoreSAN01_RACKF3"
1 1 250100 id N16 Online FC E-Port 10:00:c4:f5:7c:e6:3c:1c
"CTIDC_CoreSAN01_RACKF3" (upstream)
```

porterrshow :

```
frames enc crc crc too too bad enc disc link loss loss frjt fbsy
c3timeout pcs

tx rx in err g_eof shrt long eof out c3 fail sync sig tx rx err

0: 1.5g 580.1m 0 0 0 0 0 0 0 267 0 0 0 0 0 267 0 0

1: 1.5g 578.9m 0 0 0 0 0 0 0 275 0 0 0 0 0 275 0 0
E port 0, 1 连接到 CTIDC_CoreSAN01_RACKF3 .
```

switchshow :

```
switchName: CTIDC_CoreSAN01_RACKF3
switchWwn: 10:00:c4:f5:7c:e6:3c:1c
Index Port Address Media Speed State Proto
=====
22 22 641600 id N16 Online FC E-Port 10:00:50:eb:1a:fe:2f:80 "CTIDC_SAN31_RACKJ11" (downstream)
```

```
23 23 641700 id N16 Online FC E-Port 10:00:50:eb:1a:fe:2f:80 "CTIDC_SAN31_RACKJ11"
```

26 26 641a00 id N16 Online FC E-Port 10:00:88:94:71:55:94:e8 "CTIDC_SAN37_RACK F5"
27 27 641b00 id N16 Online FC E-Port 10:00:88:94:71:55:94:e8 "CTIDC_SAN37_RACK F5" (downstream)

porterrshow :
frames enc crc crc too too bad enc disc link loss loss frjt fbsy
c3timeout pcs
tx rx in err g_eof shrt long eof out c3 fail sync sig tx rx err
22: 3.0g 3.2g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
23: 3.0g 3.2g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
26: 630.9m 1.5g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
27: 629.7m 1.5g 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

2020/05/17-00:41:45, [AN-1010], 4316, FID 128, WARNING, CTIDC_CoreSAN01_RACKF3, Severe I
agency bottleneck detected at E-Port 22.
2020/05/17-05:55:22, [AN-1010], 4317, FID 128, WARNING, CTIDC_CoreSAN01_RACKF3, Severe I
agency bottleneck detected at E-Port 23.
2020/05/17-12:25:21, [AN-1010], 4318, FID 128, WARNING, CTIDC_CoreSAN01_RACKF3, Severe I
agency bottleneck detected at E-Port 22.
2020/05/17-14:58:59, [AN-1010], 4319, FID 128, WARNING, CTIDC_CoreSAN01_RACKF3, Severe I
agency bottleneck detected at E-Port 23.

检查 coreSan01 连接 SAN37 port 无任何错误, 连接 San31 的 port 报错. 问题很可能是 SAN31 上有慢设备引起的问题.

San31 errdump:

2020/05/25-16:55:06, [C3-1014], 5910, CHASSIS, WARNING, Brocade6510, Link Reset on Port S0,P40(30) vc_no=0 crd(s)lost=12 auto t
rigger.

2020/05/25-18:49:48, [C3-1014], 5911, CHASSIS, WARNING, Brocade6510, Link Reset on Port S0,P40(30) vc_no=0 crd(s)lost=12 auto t
rigger.

2020/05/26-02:37:06, [C3-1014], 5912, CHASSIS, WARNING, Brocade6510, Link Reset on Port S0,P40(30) vc_no=0 crd(s)lost=12 auto t
rigger.

2020/05/26-03:55:08, [C3-1014], 5913, CHASSIS, WARNING, Brocade6510, Link Reset on Port S0,P40(30) vc_no=0 crd(s)lost=12 auto t
rigger.

2020/05/26-06:39:29, [C3-1014], 5914, CHASSIS, WARNING, Brocade6510, Link Reset on Port S0,P40(30) vc_no=0 crd(s)lost=12 auto t
rigger.

2020/05/26-08:00:17, [C3-1014], 5915, CHASSIS, WARNING, Brocade6510, Link Reset on Port S0,P40(30) vc_no=0 crd(s)lost=12 auto t
rigger.

2020/05/26-09:53:13, [SEC-1203], 5916, FID 128, INFO, CTIDC_SAN31_RACKJ11, Login information: Login successful via
TELNET/SSH/RSH. IP Addr: 10.135.8.253

2020/05/26-09:53:18, [CONF-1001], 5917, FID 128, INFO, CTIDC_SAN31_RACKJ11, configUpload completed successfully for all.

2020/05/26-10:24:33, [C3-1014], 5918, CHASSIS, WARNING, Brocade6510, Link Reset on Port S0,P40(30) vc_no=0 crd(s)lost=12 auto t
rigger.

2020/05/26-15:01:58, [SEC-1203], 5919, FID 128, INFO, CTIDC_SAN31_RACKJ11, Login information: Login successful via
TELNET/SSH/RSH. IP Addr: 10.135.8.253

2020/05/26-20:25:10, [C3-1014], 5920, CHASSIS, WARNING, Brocade6510, Link Reset on Port S0,P40(30) vc_no=0 crd(s)lost=12 auto t
rigger.

2020/05/27-02:46:22, [SEC-1203], 5921, FID 128, INFO, CTIDC_SAN31_RACKJ11, Login information: Login successful via
TELNET/SSH/RSH. IP Addr: 10.135.8.8

2020/05/27-03:35:16, [C3-1014], 5922, CHASSIS, WARNING, Brocade6510, Link Reset on Port S0,P40(30) vc_no=0 crd(s)lost=12 auto t
rigger.

2020/05/27-07:50:07, [SEC-1203], 5923, FID 128, INFO, CTIDC_SAN31_RACKJ11, Login information: Login successful via
TELNET/SSH/RSH. IP Addr: 10.135.8.8

Detected information for port 40

=====

40 40 1f2800 id N16 Online FC F-Port 51:40:2e:c0:12:c8:c8:36

Port 40:

=====

Identifier: 3 SFP

Connector: 7 LC

Transceiver: 7004404000000000 4,8,16_Gbps M5 sw Short_dist

Encoding: 6 64B66B

Baud Rate: 140 (units 100 megabaud)

Length 9u: 0 (units km)

Length 9u: 0 (units 100 meters)

Length 50u (OM2): 3 (units 10 meters)

Length 50u (OM3): 10 (units 10 meters)

Length 62.5u:0 (units 10 meters)

Length Cu: 0 (units 1 meter)

Vendor Name: HP-F BROCADE

Vendor OUI: 00:05:1e

Vendor PN: QK724A

Vendor Rev: A

Wavelength: 850 (units nm)

Options: 003a Loss_of_Sig,Tx_Fault,Tx_Disable

BR Max: 0

BR Min: 0

Serial No: HAF315520000N85

Date Code: 151226

DD Type: 0x68

Enh Options: 0xfa

Status/Ctrl: 0xa2

Pwr On Time: 3.43 years (30079 hours)

E-Wrap Control: 0

O-Wrap Control: 0

Alarm flags[0,1] = 0x5, 0x40

Warn Flags[0,1] = 0x5, 0x40

		Alarm		Warn	
		low	high	low	high
Temperature:	59 Centigrade	-5	85	0	75
Current:	10.452 mAmps	2.500	12.000	2.000	11.500
Voltage:	3340.3 mVolts	3000.0	3600.0	3100.0	3500.0
RX Power:	-2.0 dBm (637.1uW)	31.6 uW	1258.9 uW	31.6 uW	794.3 uW
TX Power:	-7.9 dBm (163.9 uW)	125.9 uW	1258.9 uW	251.2 uW	794.3 uW

State transitions: 3

Last poll time: 05-27-2020 UTC Wed 07:50:07

Port 40 反复做 Link Reset, 检查 port 40 TX Power: -7.9 dBm (163.9 uW) 偏低, 应该是触发问题的原因.

解决方法

更换 SAN 31 port 40 SFP.