



华三交换机与华为交换机链路聚合对接失败

LACP

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2021-12-06 发表

组网及说明

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问题描述

华三交换机和华为交换机之间起链路聚合，聚合端口无法选中，配置如下：

华为配置：

#

interface Eth-Trunk0

ip address 1.1.1.1 255.255.255.0

mode lacp-static

alias RAGG1

#

华三配置：

#

interface Route-Aggregation1000

link-aggregation mode dynamic

#

过程分析

配置完成后发现本端display link-aggregation verbose查看聚合组1000状态，两个端口均为不选中状态

Aggregate Interface: Route-Aggregation1000

Creation Mode: Manual

Aggregation Mode: Dynamic

Loadsharing Type: Shar

Management VLANs: None

System ID: 0x8000, 9023-b4cf-6d52

Local:

Port Status Priority Index Oper-Key Flag

GE1/0/13 U 32768 5 3 {ACD}

GE1/0/14 U 32768 6 3 {ACD}

Remote:

Actor Priority Index Oper-Key SystemID Flag

GE1/0/13 32768 1 49 0x8000, ccd7-3c3c-b3c4 {ACG}

GE1/0/14 32768 2 49 0x8000, ccd7-3c3c-b3c4 {ACG}

怀疑LACP报文交互有问题，于是在两端分别开启debug如下：

华三debug：

<H3C>*Dec 3 16:19:52:545 2021 H3C LAGG/7/Packet: PACKET.GigabitEthernet1/0/13.receive.

size=110, subtype=1, version=1

Actor: type=1, len=20, sys-pri=0x8000, sys-mac=ccd7-3c3c-b3c4, key=0x31, pri=0x8000, port-index=0x1, state=0x45

Partner: type=2, len=20, sys-pri=0x0, sys-mac=0000-0000-0000, key=0x0, pri=0x0, port-index=0x0, state=0xc5

Collector: type=3, len=16, col-max-delay=0x0

Terminator: type=0, len=0

*Dec 3 16:19:52:546 2021 H3C LAGG/7/Packet: PACKET.GigabitEthernet1/0/13.send.

size=110, subtype=1, version=1

Actor: type=1, len=20, sys-pri=0x8000, sys-mac=9023-b4cf-6d52, key=0x3, pri=0x8000, port-index=0x5, state=0xd

Partner: type=2, len=20, sys-pri=0x8000, sys-mac=ccd7-3c3c-b3c4, key=0x31, pri=0x8000, port-index=0x1, state=0x45

Collector: type=3, len=16, col-max-delay=0x0

Terminator: type=0, len=0

Extern tlv: type=101, len=2, value=8

华为侧debug：

[HW]dis lacp err pack

2021-12-03 14:16:19.209 +08:00

2390 error-packet(s) have been received.

Eth-Trunk0, GigabitEthernet0/0/6, received at 2021/12/03 14:16:09 UTC+08:00.

Drop reason: The packet length 114 is wrong, the right length is 110.

01 80 c2 00 00 02 90 23 b4 cf 6d 7b 88 09 01 01

01 14 80 00 90 23 b4 cf 6d 52 00 03 80 00 00 06

0d 00 00 00 02 14 80 00 cc d7 3c 3c b3 c4 00 31

80 00 00 01 45 00 00 00 03 10 00 00 00 00 00 00

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

Eth-Trunk0, GigabitEthernet0/0/7, received at 2021/12/03 14:16:09 UTC+08:00.

Drop reason: The packet length 114 is wrong, the right length is 110.

01 80 c2 00 00 02 90 23 b4 cf 6d 7b 88 09 01 01

01 14 80 00 90 23 b4 cf 6d 52 00 03 80 00 00 05

0d 00 00 00 02 14 80 00 cc d7 3c 3c b3 c4 00 31

80 00 00 02 45 00 00 00 03 10 00 00 00 00 00 00

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

华为侧debug显示丢弃LACP报文的原因在于报文长度错误为114，正确的报文长度应为110.但是通过

华三debug可以看出，我们发出的LACP报文长度为110

解决方法

查看配置发现客户有配置link-aggregation lacp traffic-redirect-notification enable，这条命令配置后可能会影响与其他厂商设备的聚合配置。

删除该命令后可以正常对接。

