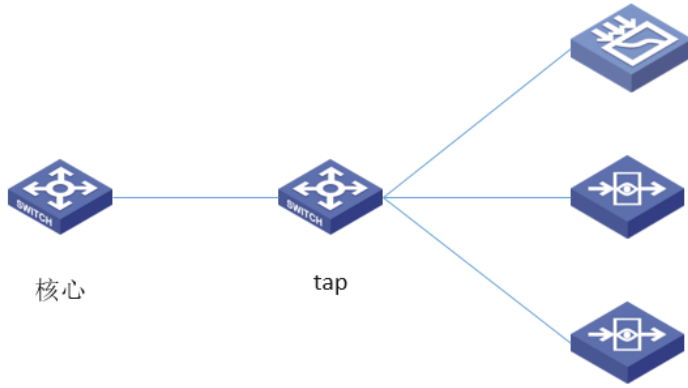


知 某局点S6520X设备做流镜像流量丢失的典型案例

QoS 张子衡 2022-07-29 发表

组网及说明



上行核心监控口连接到tap交换机，流量传输到tap。tap下联各种安全设备

问题描述

现场需要将现网的流量复制一份到安全设备上好监控现网，但在tap交换机上面配置流镜像后发现丢失了很多流量。

过程分析

查看配置并没有发现什么问题

```
monitoring-group 1
monitoring-port Ten-GigabitEthernet1/0/5
monitoring-port Ten-GigabitEthernet1/0/7
monitoring-port Ten-GigabitEthernet1/0/8
#
monitoring-group 2
monitoring-port Ten-GigabitEthernet1/0/5
monitoring-port Ten-GigabitEthernet1/0/6
monitoring-port Ten-GigabitEthernet1/0/8
monitoring-group 3
monitoring-port Ten-GigabitEthernet1/0/10
```

```
interface Ten-GigabitEthernet1/0/1
port link-mode route
qos apply tap policy tap1 inbound
#
interface Ten-GigabitEthernet1/0/2
port link-mode route
qos apply tap policy tap2 inbound
#
interface Ten-GigabitEthernet1/0/3
port link-mode route
qos apply tap policy tap3 inbound
```

```
traffic classifier tap operator and
if-match any
#
traffic behavior tap1
redirect monitoring-group 1
#
traffic behavior tap2
redirect monitoring-group 2
#
traffic behavior tap3
redirect monitoring-group 3
qos tap policy tap1
classifier tap behavior tap1
#
qos tap policy tap2
classifier tap behavior tap2
#
```

```
qos tap policy tap3
classifier tap behavior tap3
```

但是看 display interface确实流量少很多

```
Ten-GigabitEthernet1/0/10
Current state: UP
Line protocol state: UP
Description: Ten-GigabitEthernet1/0/10 Interface
Bandwidth: 10000000 kbps
Last time when physical state changed to down:2011-01-01 19:10:12
Peak input rate: 0 bytes/sec, at 00-00-00 00:00:00
Peak output rate: 56773493 bytes/sec, at 2011-01-01 19:46:39
Last 300 seconds input: 0 packets/sec 0 bytes/sec 0%
Last 300 seconds output: 164618 packets/sec 53994430 bytes/sec 5%
Input (total): 0 packets, 0 bytes
    0 unicasts, 0 broadcasts, 0 multicasts, 0 pauses
Input (normal): 0 packets, 0 bytes
    0 unicasts, 0 broadcasts, 0 multicasts, 0 pauses
Input: 0 input errors, 0 runts, 0 giants, - throttles
```

0 CRC, - frame, 0 overruns, - aborts

- ignored, - parity errors

解决方法

Output (total): 362865779 packets, 110900698081 bytes

查看对应配置指导是有说明的

0. Tap配置 新华三集团H3C

1.9 搜2023年11月那TAP策略

Output: 0 output errors, 0 underruns, - buffer failures

1. 配置限制和指导

不支持在三层以太网接口/三层聚合接口/三层以太网子接口/三层聚合子接口上应用TAP策略。

改成二层口后正常

当设备连接在生产网络和监控设备之间仅作为TAP使用时，请开启全局TAP模式。开启全局TAP模式后

，设备将会关闭二层报文转发功能，防止环路和广播风暴的产生。

Current state: UP

Line protocol state: UP

Description: Ten-GigabitEthernet1/0/3 Interface

Last 300 seconds input: 529680 packets/sec 427122683 bytes/sec 35%

Last 300 seconds output: 0 packets/sec 0 bytes/sec 0%

Input (total): 1180798493 packets, 940189172642 bytes

1146770247 unicasts, 20268295 broadcasts, 13760007 multicasts, 0 pauses

Input (normal): 1180799129 packets, 940189610659 bytes

1146770823 unicasts, 20268299 broadcasts, 13760007 multicasts, 0 pauses

测试使用本地镜像是没有问题的。

