某局点S5850-54QS 过设备丢包

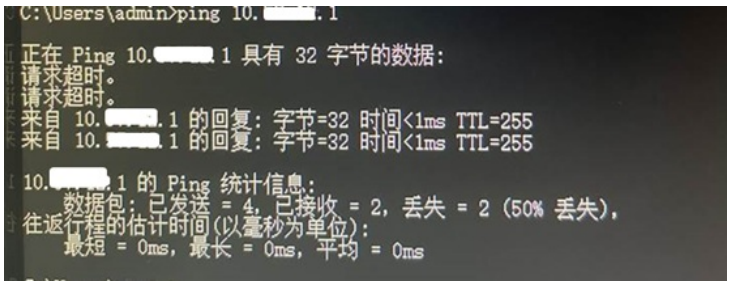
二层转发 **刘文粟** 2022-03-30 发表

组网及说明

PC-----(1/0/28)SW(1/0/51)-----SERVER

问题描述

过设备ping有丢包，流统看丢在设备上




```
                交换机]dis qos policy interface GigabitEthernet 1/0/28
Interface: GigabitEthernet1/0/28
  Direction: Inbound
  Policy: 1
   Classifier: 1
     Operator: AND
     Rule(s) :
      If-match acl 3001
     Behavior: 1
      Accounting enable:
        24 (Packets)

Interface: GigabitEthernet1/0/28
  Direction: Outbound
  Policy: 1
   Classifier: 1
     Operator: AND
     Rule(s) :
      If-match acl 3001
     Behavior: 1
      Accounting enable:
        22 (Packets)

                交换机]dis qos policy interface Ten-GigabitEthernet 1/0/51
Interface: Ten-GigabitEthernet1/0/51
  Direction: Inbound
  Policy: 1
   Classifier: 1
     Operator: AND
     Rule(s) :
      If-match acl 3001
     Behavior: 1
      Accounting enable:
        24 (Packets)

Interface: Ten-GigabitEthernet1/0/51
  Direction: Outbound
  Policy: 1
   Classifier: 1
     Operator: AND
     Rule(s) :
      If-match acl 3001
     Behavior: 1
      Accounting enable:
        24 (Packets)
```

过程分析

28口和51口都在聚合口中，现场设做了堆叠，手动down掉备框的口了

Aggregate Interface: Bridge-Aggregation128
Aggregation Mode: Static
Loadsharing Type: Shar
Management VLANs: None
Port Status Priority Oper-Key
GE1/0/28(R) S 32768 29
GE2/0/28 U 32768 29

#
interface GigabitEthernet1/0/28
port link-mode bridge
port access vlan 700
qos apply policy 1 inbound
qos apply policy 1 outbound
port link-aggregation group 128
#

#
interface Ten-GigabitEthernet1/0/51
port link-mode bridge
port link-type trunk
port trunk permit vlan all
qos apply policy 1 inbound
qos apply policy 1 outbound
port link-aggregation group 10
#

连接服务器的口有softcar arp丢包的信息原则上不影响28口转发
ID Type RcvPps Rcv_All DisPkt_All Pps Dyn Swi Hash ACLmax
29 ARP 131 60440249 58818 100 S On SMAC 8

%Jan 11 05:55:40:020 2011 HB_四期_监控服务器交换机 DRVPLAT/4/SOFTCAR DROP:
PktType= ARP , srcMAC=a0bd-1d57-1f73, Drop From Interface=Ten-GigabitEthernet1/0/51 at Stage =0, StageCnt=13242, TotalCnt=29130

接口没打满，利用率正常
==========display counters rate outbound interface==========
Usage: Bandwidth utilization in percentage
Interface Usage (%) Total (pps) Broadcast (pps) Multicast (pps)
BAGG10 7 125546 -- --
BAGG128 1 651 -- --
GE1/0/28 1 651 -- --

PC的mac，有mac飘移,服务器的mac没有看到飘移

9c:7b:xxxx 700 1 0 14 ->1 0 18 1 2011/01/01 02:19:10 1
9c:7b:xxxx 700 1 0 18 ->1 0 29 1 2011/01/11 01:52:51 1
9c:7b:xxxx700 1 0 29 ->1 0 18 1 2011/01/11 02:14:59 1
9c:7b:xxxx 700 1 0 18 ->1 0 30 1 2011/01/11 04:18:13 1
9c:7b:xxxx 700 1 0 30 ->1 0 18 1 2011/01/11 05:00:37 1

于是接口静态绑定mac测试，也有丢包情况
[交换机]dis mac-address
MAC Address VLAN ID State Port/Nickname Aging
9c7b-xxxx 700 Static BAGG116 N

解决方法

Shutdown对接口流量转发正常接口连接的第二台服务器问题。

```
<HB_四期_监控核心>ping  -c 1000 10.  .23
Ping 10.  .23 (10.  .23): 56 data bytes, press CTRL+C to break
Request time out
Request time out
Request time out
56 bytes from 10.  .23: icmp_seq=3 ttl=64 time=0.595 ms
56 bytes from 10.  .23: icmp_seq=4 ttl=64 time=0.568 ms
56 bytes from 10.  .23: icmp_seq=5 ttl=64 time=0.629 ms
56 bytes from 10.  .23: icmp_seq=6 ttl=64 time=0.641 ms
56 bytes from 10.  .23: icmp_seq=7 ttl=64 time=0.602 ms
56 bytes from 10.  .23: icmp_seq=8 ttl=64 time=0.613 ms
56 bytes from 10.  .23: icmp_seq=9 ttl=64 time=0.666 ms
56 bytes from 10.  .23: icmp_seq=10 ttl=64 time=0.820 ms
56 bytes from 10.  .23: icmp_seq=11 ttl=64 time=0.742 ms
56 bytes from 10.  .23: icmp_seq=12 ttl=64 time=0.623 ms
56 bytes from 10.  .23: icmp_seq=13 ttl=64 time=0.684 ms
56 bytes from 10.  .23: icmp_seq=14 ttl=64 time=0.531 ms
56 bytes from 10.  .23: icmp_seq=15 ttl=64 time=0.617 ms
56 bytes from 10.  .23: icmp_seq=16 ttl=64 time=0.563 ms
56 bytes from 10.  .23: icmp_seq=17 ttl=64 time=0.651 ms
56 bytes from 10.  .23: icmp_seq=18 ttl=64 time=0.588 ms
56 bytes from 10.  .23: icmp_seq=19 ttl=64 time=0.617 ms
56 bytes from 10.  .23: icmp_seq=20 ttl=64 time=0.570 ms
56 bytes from 10.  .23: icmp_seq=21 ttl=64 time=0.826 ms
56 bytes from 10.  .23: icmp_seq=22 ttl=64 time=0.651 ms
56 bytes from 10.  .23: icmp_seq=23 ttl=64 time=0.620 ms
Request time out
Request time out
Request time out
```

此时重新ping测试，做接口和全局流统。

可以看到接口有两个包没法出去。

```
Interface: GigabitEthernet1/0/16
  Direction: Inbound
  Policy: 1
   Classifier: 1
     Operator: AND
     Rule(s) :
      If-match acl 3001
     Behavior: 1
      Accounting enable:
        30 (Packets)

Interface: GigabitEthernet1/0/16
  Direction: Outbound
  Policy: 1
   Classifier: 1
     Operator: AND
     Rule(s) :
      If-match acl 3001
     Behavior: 1
      Accounting enable:
        28 (Packets)

<                    交换机>dis qos policy interface ten
<                    交换机>dis qos policy interface Ten-GigabitEthernet 1/0/51
Interface: Ten-GigabitEthernet1/0/51
  Direction: Inbound
  Policy: 1
   Classifier: 1
     Operator: AND
     Rule(s) :
      If-match acl 3001
     Behavior: 1
      Accounting enable:
        30 (Packets)

Interface: Ten-GigabitEthernet1/0/51
  Direction: Outbound
  Policy: 1
   Classifier: 1
     Operator: AND
     Rule(s) :
      If-match acl 3001
     Behavior: 1
      Accounting enable:
        30 (Packets)
```

然后全局流统统计到了这两个包，端口优先级更高，说明是从端口进来10个，然后从端口出去8个，还有俩从其他端口走了，然后全局流统就统计到了 。

```
                    交换机]dis qos policy global outbound
  Direction: Outbound
  Policy: 2
   Classifier: 1
     Operator: AND
     Rule(s) :
      If-match acl 3001
     Behavior: 1
      Accounting enable:
        2 (Packets)

[                   交换机]dis qos policy global inbound
  Direction: Inbound
  Policy: 2
   Classifier: 1
     Operator: AND
     Rule(s) :
      If-match acl 3001
     Behavior: 1
      Accounting enable:
        0 (Packets)
```

于是查看设备上up的口有多少，把流统下发到这些端口，看下没有从正确接口出去的报文从哪个接口发出去了。

对所有UP接口下发流统，找到了对应的两个异常接口。

```
Interface: GigabitEthernet1/0/25
  Direction: Outbound
  Policy: 1
   Classifier: 1
     Operator: AND
     Rule(s) :
      If-match acl 3001
     Behavior: 1
      Accounting enable:
        1 (Packets)

Interface: GigabitEthernet1/0/26
```

Direction: Outbound
Policy: 1