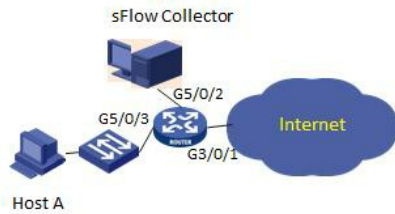


知 SR6608路由器sFlow采样异常的问题

sFlow 傅昆 2015-05-25 发表

拓扑图:



客户这边有台SR6608路由器，配置sFlow，向一台友商的sFlow collector吐数据。SR6608路由器吐的数据里只有counter数据而且数据包的长度也不正常。

下图是异常的采集信息的抓包截图：

No.	Time	Source	Destination
1	2015-03-23 14:53:37.131510	103.43.244.1	10.21.100.112
2	2015-03-23 14:53:42.130182	103.43.244.1	10.21.100.112
3	2015-03-23 14:53:47.129807	103.43.244.1	10.21.100.112
4	2015-03-23 14:53:52.129401	103.43.244.1	10.21.100.112
5	2015-03-23 14:53:57.129101	103.43.244.1	10.21.100.112
6	2015-03-23 14:54:02.132587	103.43.244.1	10.21.100.112
7	2015-03-23 14:54:07.129166	103.43.244.1	10.21.100.112
8	2015-03-23 14:54:12.128068	103.43.244.1	10.21.100.112
9	2015-03-23 14:54:17.130297	103.43.244.1	10.21.100.112
10	2015-03-23 14:54:22.130239	103.43.244.1	10.21.100.112
11	2015-03-23 14:54:27.130431	103.43.244.1	10.21.100.112
12	2015-03-23 14:54:32.127979	103.43.244.1	10.21.100.112

Frame 11: 432 bytes on wire (3456 bits), 432 bytes captured (3456 bits)
Linux cooked capture
Internet Protocol Version 4, Src: 103.43.244.1 (103.43.244.1), Dst: 10.21.100.112 (10.21.100.112)
User Datagram Protocol, Src Port: 51605 (51605), Dst Port: osm-appsrvr (9990)
InMon sFlow
Datagram version: 5
Agent address: 103.43.244.1 (103.43.244.1)
Sub-agent ID: 5
Sequence number: 70326
Sysuptime: 2886964259
NumSamples: 2
Expanded counters sample, seq 671
Expanded counters sample, seq 668

在设备上收集如下信息：

系统视图下

flow-interval 5

用户视图下

reset counters interface

隐含视图下

display sflow statistics

reset sflow statistics

debugging sflow sampler process

debugging sflow agent all

用户视图下

debugging ethernet packet interface Vlan-interface 2500

terminal debugging

terminal monitor

上述调试信息收集约20秒钟后，

先undo terminal debugging、undo terminal monitor

然后undo debugging all

再进入隐含视图undo debugging sflow sampler process、undo debugging sflow agent all

停止打印调试信息后，再收集：

display interface Vlan-interface 2500

display interface Ten-GigabitEthernet5/0/3

隐含视图下

display sflow ifcb interface Ten-GigabitEthernet5/0/3

display sflow statistics

经过分析和确认，设备之所以采样失败，是因为SR6608路由器上的SAP 4EXP 4端口万兆单板的交换芯片在实现上，不支持对三层口与二层口之间的转发流量进行采样。

现场采集的是Host A 与Internet之间的流量，G5/0/3是二层互联，G3/0/1是三层互联。这样，由于芯片实现的限制，二层口和三层口之间的流量，sFlow是无法采集的。

- 1、将SAP4EXP板的G3/0/1接口改为bridge口，通过vlan接口与外网相连，这样在4EXP板的bridge口上就能正常sflow采样了；
- 2、在现网流量不大的情况下，可以考虑将4EXP板上的内网口G5/0/3改为三层Route口，放弃sFow采样改为NetStream采样；同时注意配置Sampler采样率(默认一比一采样)，以减小CPU负担。