

组网及说明

目前很多交换机都暂不支持用MIB节点直接读取端口的IPv6流量，下面介绍使用MQC+MIB节点的方式读取端口的IPv6流量。

本文以S6800交换机为例进行说明，其他型号的交换机操作类似。

配置步骤

- 1) 创建统计IPv6流量的QoS策略，并下发到对应端口。

```
acl ipv6 number 3500
rule 0 permit ipv6
#
traffic classifier ipv6 operator and
if-match acl ipv6 3500
#
traffic behavior ipv6
accounting packet
#
qos policy ipv6
classifier ipv6 behavior ipv6
##创建统计ipv6流量的策略
interface Ten-GigabitEthernet2/0/1
port link-mode bridge
port link-type trunk
port trunk permit vlan all
qos apply policy ipv6 inbound
qos apply policy ipv6 outbound
##将策略下发到要统计的端口上
```

- 2) 查看端口流量信息

```
[S6800]display qos policy interface Ten-GigabitEthernet 2/0/1
```

```
Interface: Ten-GigabitEthernet2/0/1
```

```
Direction: Inbound
```

```
Policy: ipv6
```

```
Classifier: ipv6
```

```
Operator: AND
```

```
Rule(s) :
```

```
If-match acl ipv6 3500
```

```
Behavior: ipv6
```

```
Accounting enable:
```

```
2365 (Packets)
```

```
Interface: Ten-GigabitEthernet2/0/1
```

```
Direction: Outbound
```

```
Policy: ipv6
```

```
Classifier: ipv6
```

```
Operator: AND
```

```
Rule(s) :
```

```
If-match acl ipv6 3500
```

```
Behavior: ipv6
```

```
Accounting enable:
```

```
90 (Packets)
```

- 3) 首先需要查到下发qos策略的端口索引

```
[S6800-probe]display system internal ifmgr list
```

```
|
```

```
Ten-GigabitEthernet2/0/1(index:162)
```

- 4) 通过节点hh3cCBQoSIntApplyObjectIndex获取hh3cCBQoSApplyObjectIndex是108

以下为读取节点hh3cCBQoSIntApplyObjectIndex (1.3.6.1.4.1.25506.2.65.2.1.5.5.2.1.2) 的结果

```
***** SNMP QUERY STARTED *****
```

```
1: hh3cCBQoSIntApplyObjectIndex.162.1 (gauge) 1
```

```
2: hh3cCBQoSIntApplyObjectIndex.162.2 (gauge) 2//第一个数字代表端口索引，如果是0则代表全局；第二个数据1代表入方向；2代表出方向。所以入方向的index是1，出方向是2。
```

```
***** SNMP QUERY FINISHED *****
```

5) 获取hh3cCBQoSPolicyClassIndex值是0

```
[S6800]display qos policy user-defined ipv6
```

User-defined QoS policy information:

Policy: ipv6 (ID 106)

Classifier: ipv6 (ID 0) ---这个ID就是我们要找的hh3cCBQoSPolicyClassIndex

Behavior: ipv6

Accounting enable: Packet

6) 读取节点hh3cCBQoSAccountingPackets, 获取统计值

以下是读取节点hh3cCBQoSAccountingPackets (1.3.6.1.4.1.25506.2.65.2.1.5.6.8.1.1) 的结果

```
***** SNMP QUERY STARTED *****
```

```
1: hh3cCBQoSAccountingPackets.1.0 (counter64) 2365
```

```
2: hh3cCBQoSAccountingPackets.2.0 (counter64) 90
```

```
***** SNMP QUERY FINISHED *****
```

小数点前的数字为hh3cCBQoSApplyObjectIndex, 小数点后的数字为hh3cCBQoSPolicyClassIndex, 后面代表报文数或者报文字节数 (由accounting后跟的是packet还是byte决定)

配置关键点