

组网及说明

需要对符合特定规则的报文，进行硬件统计。

本实例对从S10500系列交换机 GigabitEthernet1/1/0/42端口匹配源IP为192.168.1.10的ICMP报文进行硬件统计。

配置步骤

(1) 配置相关acl，以匹配特定报文

```
[H3C] acl number 3333
[H3C-acl-adv-3333] rule 1 permit icmp source 192.168.1.10 0 counting
```

(2) 下发acl到对应端口G1/1/0/42

```
[H3C] int g1/1/0/42
[H3C-GigabitEthernet1/0/1] packet-filter 3001 inbound hardware-count
```

(3) 检查统计结果

```
[H3C]display packet-filter statistics interface g 1/1/0/42 inbound
Interface: GigabitEthernet1/1/0/42
Inbound policy:
IPv4 ACL 3333, Hardware-count
From 2019-01-31 02:57:37 to 2019-01-31 02:57:42
rule 1 permit icmp source 192.168.1.10 0 counting
Totally 0 packets permitted, 0 packets denied
Totally 0% permitted, 0% denied
```

```
[H3C]ping 192.168.1.10
Ping 192.168.1.10 (192.168.1.10): 56 data bytes, press CTRL+C to break
56 bytes from 192.168.1.10: icmp_seq=0 ttl=255 time=2.021 ms
56 bytes from 192.168.1.10: icmp_seq=1 ttl=255 time=2.182 ms
56 bytes from 192.168.1.10: icmp_seq=2 ttl=255 time=1.522 ms
56 bytes from 192.168.1.10: icmp_seq=3 ttl=255 time=1.518 ms
56 bytes from 192.168.1.10: icmp_seq=4 ttl=255 time=1.674 ms

--- Ping statistics for 192.168.1.10 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 1.518/1.783/2.182/0.271 ms
[Spine]%Jan 31 00:25:03:165 2019 Spine PING/6/PING_STATISTICS: -MDC=1; Ping statistics for 192.168.1.10: 5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss, round-trip min/avg/max/std-dev = 1.518/1.783/2.182/0.271 ms.
```

```
[Spine]dis packet-filter statistics interface g 1/1/0/42 inbound
Interface: GigabitEthernet1/1/0/42
Inbound policy:
IPv4 ACL 3333, Hardware-count
From 2019-01-31 02:57:37 to 2019-01-31 02:59:23
rule 1 permit icmp source 192.168.1.10 0 counting (5 packets)
Totally 5 packets permitted, 0 packets denied
Totally 100% permitted, 0% denied
```

配置关键点

若需要重置统计计数，可通过reset packet-filter statistics interface命令操作
<H3C>reset packet-filter statistics interface GigabitEthernet 1/1/0/42 inbound

```
<H3C>display packet-filter statistics interface GigabitEthernet 1/1/0/42 inbound
Interface: GigabitEthernet1/1/0/42
```

Inbound policy:

IPv4 ACL 3333, Hardware-count

From 2019-01-31 03:03:45 to 2019-01-31 03:04:08

rule 1 permit icmp source 192.168.1.10 0 counting

Totally 0 packets permitted, 0 packets denied

Totally 0% permitted, 0% denied