

知 某局点105X ACL下发失败，资源提示不足

VLAN ACL packet-filter 李先福 2020-03-24 发表

组网及说明

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问题描述

客户发现在vlan if下发包过滤失败有如下报错

```
<GAZW-JIANGNING>3(vlan-interface)vlan 7
<GAZW-JIANGNING>3(vlan7)arpnengmuwz
<GAZW-JIANGNING>3(vlan7)int vlan 7
<GAZW-JIANGNING>3(vlan7)arpnengmuwz
<GAZW-JIANGNING>3(vlan-interface) packet-filter deny-virus inbound
<GAZW-JIANGNING>3(vlan-interface) packet-filter name deny-virus outbound
Failed to apply IPv4 ACL deny-virus to the outbound direction of interface vlan-interface on chassis 1 (slot 0, 2, 4), chassis 2 (slot 0, 2, 4).
```

过程分析

(1) 查看设备的acl资源，发现acl资源已经差不多用完

```
<GAZW-JIANGNING>3(dis qos-acl resource
Interfaces: XGE1/0/0/1 to XGE1/0/0/16 (chassis 1 slot 0)
Type      Total    Reserved   Configured Remaining Usage
-----  -----
VFP ACL    1024      768        0       256    75%
IFP ACL    2048      768      1080     200    90%
IFP Meter   1024      512        0       512    50%
IFP Counter 1024      384        0       640    37%
EFP ACL    1024      0        1020      4    99%
EFP Meter   512      0        0       512    0%
EFP Counter 512      0        0       512    0%
```

(2) 查看客户的acl配置和包过滤应用

```
# 
acl advanced name deny-virus
step 10
rule 0 deny tcp destination-port eq 4899
rule 1 deny udp destination-port eq 4899
rule 2 deny udp destination-port eq 22
rule 20 deny tcp destination-port eq 9996
rule 30 deny tcp destination-port eq 135
rule 40 deny tcp destination-port eq 136
rule 50 deny tcp destination-port eq 137
rule 60 deny tcp destination-port eq 138
rule 70 deny tcp destination-port eq 139
rule 80 deny tcp destination-port eq 445
rule 90 deny udp destination-port eq 135
rule 100 deny udp destination-port eq 2425
rule 110 deny tcp destination-port eq 2425
rule 120 deny udp destination-port eq 136
rule 130 deny udp destination-port eq netbios-ns
rule 140 deny udp destination-port eq netbios-dgm
rule 150 deny udp destination-port eq netbios-ssn
rule 160 deny udp destination-port eq 445
rule 170 deny udp destination-port eq 1434
rule 180 permit ip
##共19条rule
共在54个vlan接口下发这个包过滤。设备在底层会占用54份包过滤的acl资源，也就是54X19=1026，与客户查看acl资源占用情况差不多。
```

(3) 建议改成全局下发包过滤，这样设备只会下发一份底层资源，只占用19份acl资源，从而节约acl资源。

解决方法

将包过滤在全局下发，而不是单个vlan接口逐个下发。