

知 某局点S10508X-G包过滤下发失败问题处理经验案例

packet-filter 刁勇 2023-09-26 发表

组网及说明

组网不涉及

问题描述

包过滤下发失败，提示资源不足：

```
%Sep 1 16:10:41:006 2023 User-S10508X SHELL/6/SHELL_CMD: -Line=vty3-IPAddr=172.X.X.X-User=admin; Command is packet-filter 3042 inbound
```

```
%Sep 1 16:10:41:950 2023 User-S10508X PFILTER/3/PFILTER_IF_IPV4_DACT_NO_RES: -Chassis=2-Slot=6; Failed to apply or refresh the IPv4 default action to the inbound direction of interface Vlan-interface42. The resources are insufficient.
```

```
%Sep 1 16:10:42:113 2023 User-S10508X PFILTER/3/PFILTER_IF_IPV4_DACT_NO_RES: -Chassis=1-Slot=6; Failed to apply or refresh the IPv4 default action to the inbound direction of interface Vlan-interface42. The resources are insufficient.
```

过程分析

查看当前资源使用情况:

```
[User-S10508X-Vlan-interface42]dis qos-acl resource
```

```
Interfaces: GE1/6/0/1 to GE1/6/0/48, XGE1/6/0/49 to XGE1/6/0/52 (chassis 1 slot 6)
```

```
-----  
Type          Total    Reserved  Configured Remaining Usage  
-----
```

Type	Total	Reserved	Configured	Remaining	Usage
IGS ACL	8192	1536	2844	3812	53%
EGS ACL	1536	0	4	1532	0%
IGS Counter	4096	768	1296	2032	50%
EGS Counter	768	0	0	768	0%
IGS Meter	8191	100	4	8087	1%
EGS Meter	2047	0	0	2047	0%
IMeter Counter	3327	300	12	3015	9%
EMeter Counter	3839	0	0	3839	0%

```
Interfaces: GE2/6/0/1 to GE2/6/0/48, XGE2/6/0/49 to XGE2/6/0/52 (chassis 2 slot 6)
```

```
-----  
Type          Total    Reserved  Configured Remaining Usage  
-----
```

Type	Total	Reserved	Configured	Remaining	Usage
IGS ACL	8192	1536	2844	3812	53%
EGS ACL	1536	0	4	1532	0%
IGS Counter	4096	768	1296	2032	50%
EGS Counter	768	0	0	768	0%
IGS Meter	8191	100	4	8087	1%
EGS Meter	2047	0	0	2047	0%
IMeter Counter	3327	300	12	3015	9%
EMeter Counter	3839	0	0	3839	0%

查看板卡信息, 报错的两个slot 6槽位板卡型号都是LSEM1GT48TSSD0:

```
=====display device verbose=====
```

Slot	Type	State	Subslot	Soft Ver	Patch Ver
1/6	LSEM1GT48TSSD0	Normal	0	S10500XG-7753P07	None
2/6	LSEM1GT48TSSD0	Normal	0	S10500XG-7753P07	None

LSEM1GT48TSSD0单板IACL (入方向acl资源) 有 8个block (编号0-7) ; 前四个可以各下发1536条ACL, 后四条可以各下发256条ACL;

0, 1, 2, 7都已使用; 4、5、6被合并到3中被PFT L3使用

```
====display hardware internal qacl show acl-resc chassis 1 slot 6 chip 0====
```

```
-----Qacl Group UsedResc Info-----
```

AcI Hw Block: IACL 0

```
=====
```

GroupType: SYSTEM

```
-----
```

acl type	usedEntries
[19]RX IPv4 High	1
[21]RX IPv4 Middle High	1
[23]RX IPv4 Middle	2
[25]RX Low	7

AcI Hw Block: **IACL 1**

```
=====
```

GroupType: DP PKT

```
-----
```

acl type	usedEntries
[240]DROP GROUP BFD INTF	1

AcI Hw Block: **IACL 2**

```
=====
```

GroupType: EXCP

```
-----
```

acl type	usedEntries
[267]EXCP HIGH	1

Acl Hw Block: IACL 3

=====

GroupType: PFT L3

解决方法
 acl type usedEntries
 修改packet-filter default的缺省动作为permit方式，并在acl中配置rule xx deny ip来替代packet-filter default deny
 Acl Hw Block: IACL 7

=====

GroupType: MQC

```

-----
acl type          usedEntries
[ 0]MQC Vlan      2
| @-----@
| IACL 3 |Entry    3072  0    2822  250  |
| |Entry640  0    0    0    0    |
| |Block Counter 1536  0    1295  241  |
| @-----@

```

包过滤缺省动作被配置为deny，会下发default action；而LSEM1GT48TSSD0单板芯片支持微分段，需要将微分段的包过滤拆分到新的Group；

packet-filter default deny

由于0, 1, 2, 7都已使用；4、5、6被合并到3中被PFT L3使用，因此没有多余的BLOCK下发微分段default action；导致提示资源不足

