

知 某局点F1000-AK由于flash被只读导致保存配置失败经验案例

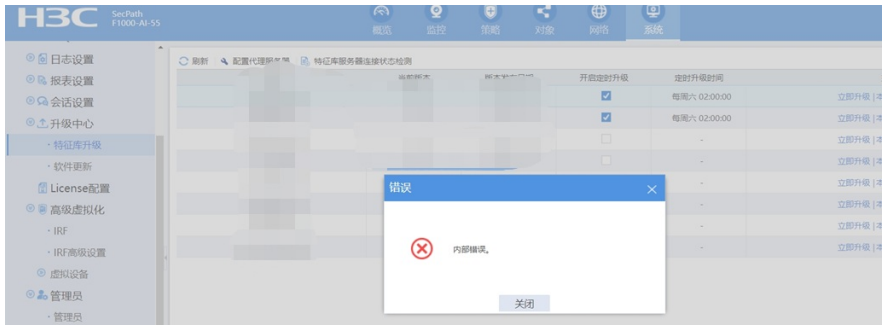
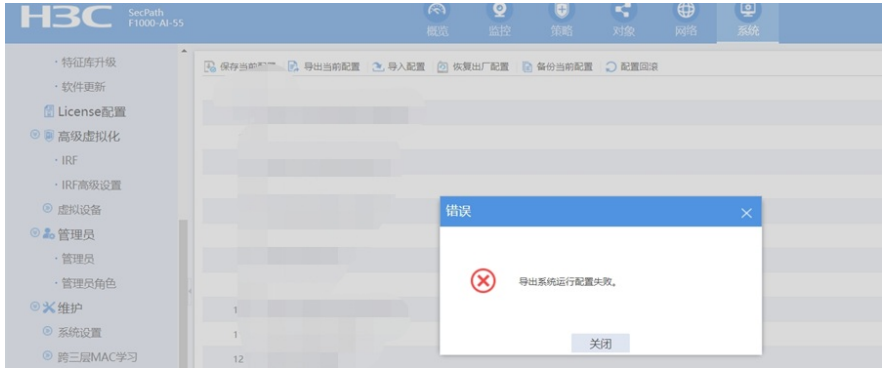
其他 王子腾 2022-11-29 发表

问题描述

两台防火墙做的堆叠，发现slot1保存配置报错，save或者save force报错一样，如下：

```
<ChuKouFW-F1000>save f
validating file. Please wait...
Failed to save the current configuration.
<ChuKouFW-F1000>
```

导入导出文件以及升级特征库也失败，如下：



过程分析

1、尝试在slot2写了个test.cfg文件可以保存，可以保存成功。

```
<ChuKouFW-F1000>dir_slot2#flash:/
Directory of slot2#flash: (VFAT)
 0 drw-      - Nov 14 2022 13:24:22
 1 -rw-    513751 Nov 14 2022 13:20:02
 2 drw-      - Jul 09 2021 15:49:22
 3 drw-      - Dec 21 2021 17:17:12
 4 -rw-        567 Nov 14 2022 13:24:22
 5 -rw-   16529408 Jun 08 2022 18:05:44
 6 -rw-   16544768 Jun 04 2021 15:00:00
 7 -rw-   18569216 Jun 04 2021 15:00:00
 8 -rw-   195881984 Jun 08 2022 18:11:18
 9 -rw-   190370816 Jun 04 2021 15:00:00
10 -rw-        735 Nov 14 2022 13:24:22
11 drw-      - Jul 09 2021 15:49:38
12 -rw-   111720 Nov 14 2022 13:24:23
13 drw-      - Feb 24 2022 08:31:00
14 drw-      - Dec 21 2021 16:57:00
15 drw-      - Nov 14 2022 13:24:22
16 drw-      - Jul 09 2021 15:49:22
17 -rw-        591 Nov 14 2022 13:24:22
18 drw-      - Dec 30 2021 12:06:52
19 -rw-    47024 Jul 13 2022 20:16:02
20 -rw-    921859 Jul 13 2022 20:16:02
21 -rw-    46929 Oct 25 2022 13:37:30
22 -rw-    921949 Oct 25 2022 13:37:30
23 drw-      - Jun 08 2022 18:20:18

3809996 KB total (3056780 KB free)
```



2、查看slot1的cpu和内存也都是正常范围。

```
=====display cpu=====
```

Slot 1 CPU 0 CPU usage:

24% in last 5 seconds

11% in last 1 minute

7% in last 5 minutes

```
=====display memory=====
```

Memory statistics are measured in KB:

Slot 1:

	Total	Used	Free	Shared	Buffers	Cached	FreeRatio
Mem:	8004864	3826984	4177880	0	7116	1380892	65.4%
-/+ Buffers/Cache:	2438976	5565888					
Swap:	0	0	0				

3、查看分布式文件系统fsd进程，也没见异常。

```
[F1000]dis process name fsd
      Job ID: 17815
      PID: 17815
      Parent JID: 1
      Parent PID: 1
      Executable path: /sbin/fsd
      Instance: 0
      Respawn: ON
      Respawn count: 1
      Max. spawns per minute: 12
      Last started: Mon Nov 14 13:21:08 2022
      Process state: sleeping
      Max. core: 1
      ARGS: -

  TID LAST_CPU  Stack  PRI  State HH:MM:SS:MESC Name
17815   0    136K   120   S   0:0:0:0    fsd
17816   0    136K   120   S   0:0:1:950    fsd
17824   0    136K   120   S   0:0:17:730   fsd
```

```
[ChuKouFW-F1000] probe
```

```
[ChuKouFW-F1000-probe]follow job 17815
```

4、查看诊断，现场安全策略日志输出到信息中心，关一下策略日志测试，故障依旧。

5、进一步查看诊断，发现slot1的Flash被置为只读了，需要用串口登录，fixdisk flash修复。（注意要用串口，测试时用telnet或者ssh登录设备修复均失败。）

```
[ 45.895277] 0:diagd (17823): drop_caches: 3
[ 51.554156] 2:random: nonblocking pool is initialized
[ 52.018349] 0:attach task 18415(kbfd/1) to /dev/cgroup/cpuset/oam failed
[ 52.018363] 0:Process kbfd need NICE capability
[ 52.264048] 0:FAT-fs (mmcblk0p1): error, fat_get_cluster: invalid cluster chain (i_pos 18282660)
```

6、现场console登录设备，修复成功了问题都解决了。

解决方法

<F1000>disk slot1#flash:

Saved the current configuration to mainboard device successfully.



