

知 S5130EI 断电重启后配置丢失经验案例

配置优化 林洪宇 2017-07-15 发表

某局点客户反馈交换机S5130EI设备下挂业务无法正常转发，并且设备无法正常远程登陆，处于托管状态，于是客户到机房通过串口登陆设备查看，发现设备配置丢失，导致无法业务无法转发。

查看设备当前和保存配置：

发现当前配置和save的配置均为空配置，与业务相关接口配置丢失：

```
=====display saved-cOnfiguration=====  
acl num 2220  
undo rule 203 per sou 172.17.32.60 0  
undo rule 204 per sou 172.17.32.61 0  
rule 80 per sou 172.17.32.60 0  
rule 81 per sou 172.17.32.61 0  
=====
```

分析诊断信息

查看设备运行时间以及最近一次设备的重启原因：

```
H3C S5130-28S-PWR-EI uptime is 0 weeks, 0 days, 1 hour, 41 minutes
```

```
Last reboot reason : Cold reboot
```

设备最近一次的重启原因为冷重启，即为掉电重启。排查现网环境，发现机房部分设备存在发生过断电的情况，设备断电，会导致设备配置无法正常保存，重启后配置丢失；进一步查看设备重启前的相关日志打印。

```
%@4374%Jan 1 08:02:10:839 2013 AN6-L36-1F-H-S5130IRF LAGG/6/LAGG_ACTIVE: Member port XGE2/0/25 of aggregation group BAGG1 changed to the active state.
```

```
%@4375%Jan 1 08:02:10:902 2013 AN6-L36-1F-H-S5130IRF IFNET/5/LINK_UPDOWN: Line protocol on the interface Ten-GigabitEthernet2/0/25 is up.
```

```
%@4376%Jan 1 08:11:16:067 2013 AN6-L36-1F-H-S5130IRF CFGMAN/5/CFGMAN_CFGCHANGED: -EventIndex=1-CommandSource=snmp-COnfigSource=startup-COnfigDestination=running; Configuration is changed.
```

```
%@4377%Jan 1 17:41:30:875 2013 AN6-L36-1F-H-S5130IRF CFGMAN/5/CFGMAN_OPTCOMPLETION: -OperateType=running2net-OperateTime=162-OperateState=success-OperateEndTime=3489922; Operation completed.
```

```
%@4378%Jan 1 17:41:34:209 2013 AN6-L36-1F-H-S5130IRF CFGMAN/5/CFGMAN_OPTCOMPLETION: -OperateType=startup2net-OperateTime=50-OperateState=success-OperateEndTime=3490255; Operation completed.
```

```
%@4379%Jan 3 07:44:40:756 2013 AN6-L36-1F-H-S5130IRF SHELL/6/SHELL_CMD: -Line=-IPAddr=-User=**; Command is system-view
```

```
%@4380%Jan 3 07:44:41:273 2013 AN6-L36-1F-H-S5130IRF SHELL/6/SHELL_CMD: -Line=-IPAddr=-User=**; Command is system-view
```

```
%@4381%Jan 3 07:44:41:283 2013 AN6-L36-1F-H-S5130IRF SHELL/6/SHELL_CMD: -Line=-IPAddr=-User=**; Command is vlan 14
```

```
%@4382%Jan 3 07:44:41:481 2013 AN6-L36-1F-H-S5130IRF SHELL/6/SHELL_CMD: -Line=-IPAddr=-User=**; Command is system-view
```

```
%@4383%Jan 3 07:44:41:485 2013 AN6-L36-1F-H-S5130IRF SHELL/6/SHELL_CMD: -Line=-IPAddr=-User=**; Command is vlan 14
```

```
%@4384%Jan 3 07:44:41:489 2013 AN6-L36-1F-H-S5130IRF SHELL/6/SHELL_CMD: -Line=-IPAddr=-User=**; Command is des W-UPS-Manage
```

```
%@4385%Jan 3 07:44:41:765 2013 AN6-L36-1F-H-S5130IRF CFGMAN/5/CFGMAN_OPTCOMPLETION: -OperateType=net2running-OperateTime=439-OperateState=success-OperateEndTime=17189009; Operation completed.
```

```
%@4386%Jan 3 07:44:50:383 2013 AN6-L36-1F-H-S5130IRF CFGMAN/5/CFGMAN_OPTCOMPLETION: -OperateType=running2startup-OperateTime=255-OperateState=success-OperateEndTime=17189872; Operation completed.
```

```
%@4392%Jan 5 01:14:49:176 2013 AN6-L36-1F-H-S5130IRF SHELL/6/SHELL_CMD: -Line=-IPAddr=-User=**; Command is acl num 2220
```

```
%@4393%Jan 5 01:14:49:185 2013 AN6-L36-1F-H-S5130IRF SHELL/6/SHELL_CMD: -Line=-IPAddr=-User=**; Command is rule 203 per sou 172.17.32.60 0
```

```
%@4394%Jan 5 01:14:49:195 2013 AN6-L36-1F-H-S5130IRF SHELL/6/SHELL_CMD: -Line=-IPAddr=-User=**; Command is rule 204 per sou 172.17.32.61 0
```

%@4395%Jan 5 01:14:49:405 2013 AN6-L36-1F-H-S5130IRF CFGMAN/5/CFGMAN_OPTCOMPLETION: -OperateType=net2running-OperateTime=457-OperateState=success-OperateEndTime=32129772; Operation completed.

%@4396%Jan 5 01:14:57:804 2013 AN6-L36-1F-H-S5130IRF CFGMAN/5/CFGMAN_OPTCOMPLETION: -OperateType=running2startup-OperateTime=260-OperateState=success-OperateEndTime=32130614; Operation completed.

%@4397%Jan 5 01:21:16:068 2013 AN6-L36-1F-H-S5130IRF CFGMAN/5/CFGMAN_CFGCHANGED: -EventIndex=31-CommandSource=snmp-COnfigSource=startup-COnfigDestination=running; Configuration is changed.

%@4398%Jan 5 03:10:11:148 2013 AN6-L36-1F-H-S5130IRF CFGMAN/5/CFGMAN_OPTCOMPLETION: -OperateType=startup2net-OperateTime=36-OperateState=success-OperateEndTime=32821949; Operation completed.

%@4399%Jan 5 03:10:17:261 2013 AN6-L36-1F-H-S5130IRF CFGMAN/5/CFGMAN_OPTCOMPLETION: -OperateType=net2startup-OperateTime=79-OperateState=success-OperateEndTime=32822559; Operation completed.

%@4400%Jan 8 17:41:46:430 2013 AN6-L36-1F-H-S5130IRF CFGMAN/5/CFGMAN_OPTCOMPLETION: -OperateType=running2net-OperateTime=158-OperateState=success-OperateEndTime=63971477; Operation completed.

%@4401%Jan 8 17:41:49:713 2013 AN6-L36-1F-H-S5130IRF CFGMAN/5/CFGMAN_OPTCOMPLETION: -OperateType=startup2net-OperateTime=37-OperateState=success-OperateEndTime=63971805; Operation completed.

%@4402%Jan 10 06:46:44:573 2013 AN6-L36-1F-H-S5130IRF SSSH/6/SSHS_LOG: Authentication failed for huangxg from 172.17.34.252 port 61046 because of invalid username or wrong password ssh2.

从如上logfile打印的日志分析，存在用户会不定时对设备执行net2startup和net2running操作：

net2running：将网络上的配置文件上传到设备，并作为当前配置运行

net2startup：将网络上的配置文件上传到设备，并保存为下次启动配置文件

对设备执行net2startup操作，设备会从网络中下载相关配置文件，并对其进行指定下次启动配置文件的操作，若下载的配置文件为空配，并将空配置指定为下次启动配置，设备断电发生重启，无法自动保存当前正常运行的相关配置，采用保存的空配置启动运行，会导致设备无法正常转发，业务中断。