排除Catalyst 9000交换机引导至交换机提示的故障

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简介

本文档介绍有关Catalyst 9000系列交换机无法正常启动并进入引导加载程序提示符的问题及解决方案。

问题

机箱2重新加载。原因是1+1模式中的主用/备用选择失败：

```
switch: boot
attempting to boot from [flash:packages.conf]

Located file packages.conf
#
################################################################################################################
Validate packages: SHA-1 hash:
calculated 550C9730:667B2788:DD6F6B06:D0FFA819:01A315DA
expected 550C9730:667B2788:DD6F6B06:D0FFA819:01A315DA

Both links down, not waiting for other switches
Switch number is 2

Chassis 2 reloading, reason - Active/standby selection failed in 1+1 Mode                    <<<<<<
Feb 19 20:06:55.572 FP0/0: %PMAN-5-EXITACTION: Process manager is exiting: reload fp action requested
Feb 19 20:06:57

Initializing Hardware...

System Bootstrap, Version 16.6.1r [FC1], RELEASE SOFTWARE (P)
Compiled Sat 07/15/2017 8:31:57.39 by rel

Current image running:
Primary Rommon Image
```

```
Last reset cause: SoftwareReload
C9300-48U platform with 8388608 Kbytes of main memory

attempting to boot from [flash:packages.conf]

Located file packages.conf
#
################################################################################################################

Validate packages: SHA-1 hash:
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```

识别此问题的另一种方法是通过在引导加载程序模式下运行set命令来查看STACK 1+1引导加载程序变量。要使交换机进入引导加载程序模式，请在交换机开始启动时单击mode按钮。

```
switch: set
ABNORMAL_RESET_COUNT=0
AUTOREBOOT_RESTORE=1
BOARDID=20569
BOOT=flash:packages.conf
BSI=0
MAC_ADDR=00:ab:cd:ef:01
MANUAL_BOOT=yes
MODEL_NUM=C9300-48UXM
MODEL_REVISION_NUM=D0
MOTHERBOARD_ASSEMBLY_NUM=73-17959-06
MOTHERBOARD_REVISION_NUM=A0
MOTHERBOARD_SERIAL_NUM=XXXXXXXXXXX
RANDOM_NUM=1901228755
RET_2_RCALTS=
ROMMON_AUTOBOOT_ATTEMPT=3
STACK_1_1=2_0                        <<<<<<<
SWITCH_IGNORE_STARTUP_CFG=1
SWITCH_NUMBER=2
SYSTEM_SERIAL_NUM=XXXXXXXXXXX
TEMPLATE=access
VERSION_ID=V01

switch:
```

解决方案

取消设置Stack 1+1变量。之后，此交换机可以正常启动。

```
switch:unset STACK_1_1
```

```
switch: set
ABNORMAL_RESET_COUNT=0
AUTOREBOOT_RESTORE=1
BOARDID=20569
BOOT=flash:packages.conf
BSI=0
MAC_ADDR=00:ab:cd:ef:01
MANUAL_BOOT=yes
MODEL_NUM=C9300-48UXM
MODEL_REVISION_NUM=D0
MOTHERBOARD_ASSEMBLY_NUM=73-17959-06
MOTHERBOARD_REVISION_NUM=A0
MOTHERBOARD_SERIAL_NUM=XXXXXXXXXXX
RANDOM_NUM=1901228755
RET_2_RCALTS=
ROMMON_AUTOBOOT_ATTEMPT=3
SWITCH_IGNORE_STARTUP_CFG=1
SWITCH_NUMBER=2
SYSTEM_SERIAL_NUM=XXXXXXXXXX
TEMPLATE=access
VERSION_ID=V01

switch:
```

取消设置堆栈1+1引导加载程序变量后，运行boot命令，以便交换机可以从交换机上设置的引导变量进行引导。

```
switch: boot
attempting to boot from [flash:packages.conf]

Located file packages.conf
#
###############################################################################################################
Validate packages: SHA-1 hash:
calculated 550C9730:667B2788:DD6F6B06:D0FFA819:01A315DA
expected 550C9730:667B2788:DD6F6B06:D0FFA819:01A315DA

Both links down, not waiting for other switches
Switch number is 2
```

相关信息

有关堆栈1+1模式的详细信息，请参阅1:1冗余。

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