



系统无法启动-无法恢复SP

https://kb-cn.netapp.com/on-prem/ontap/OHW/OHW-KBs/System_fails_to_boot_with_Failed_to_recover...

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适用场景

- AFF A220 / FAS27x0 / AFF C190
- AFF A200 / FAS26x0
- FAS80x0
- FAS9500
- AFF A300/FAS8200
- AFF A700/FAS9000
- AFF AFF AFF A20
- AFF C60/ AFF C30

问题描述

- 存储系统会重新启动(例如、在ONTAP升级期间)、但 无法启动、并暂停到Loader。

示例：

...

Waiting for SP ...

SP failure. Resetting SP from primary FW. This can take a few minutes

Waiting for SP ...

SP failure. Resetting SP from backup FW. This can take a few minutes

Waiting for SP ...

Failed to recover SP

IPMI PCI Slot Control failed.

IPMI PCI Slot Configuration failed.

Configuring Devices ...

IPMI:Get controller FRU inventory:failed

IPMI:Get midplane FRU 0 inventory:failed

IPMI: Get NVRAM FRU inventory:failed

BIOS POST Failure(s) detected: SP IPMI failure. Abort AUTOBOOT

LOADER-A>

BIOS POST Failure(s) detected: Failed to get FRU data. Abort AUTOBOOT

- 服务处理器(SP)事件 日志会报告类似的故障消息。

示例：

Record 1287: Tue Apr 14 14:34:05.000000 2020 [SysFW.notice]: IPMI:Read midplane FRU common header:timeout - retrying

Record 1288: Tue Apr 14 14:34:10.000000 2020 [SysFW.notice]: IPMI:Read midplane FRU common header:timeout

Record 1289: Tue Apr 14 14:34:13.000000 2020 [SysFW.notice]: Failed to recover SP

Record 1290: Tue Apr 14 14:34:13.000000 2020 [SysFW.critical]: IPMI:Read midplane FRU common header:failed

Record 1291: Sun Jan 01 00:02:58.340000 2017 [Trap Event.critical]: hwassist post_error (26)

Record 1292: Tue Apr 14 14:34:14.000000 2020 [SysFW.critical]: IPMI PCI Slot Control failed.

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Record 1293: Sun Jan 01 00:02:59.310000 2017 [Trap Event.critical]:  
hwassist post_error (26)  
Record 1294: Tue Apr 14 14:34:18.000000 2020 [CFE.notice]: Loader time  
adjust: Set BMC time. Old time: Sun Jan 1 00:03:03 2017. New time: Tue  
Apr 14 14:34:18 2020.  
Record 1295: Tue Apr 14 14:34:18.000000 2020 [Boot Loader.notice]:  
Received time sync  
Record 1296: Tue Apr 14 14:34:20.000000 2020 [Boot Loader.critical]: Abort  
Autoboot due to BIOS POST failure.  
Record 1297: Tue Apr 14 14:34:20.280000 2020 [Trap Event.critical]:  
hwassist post_error (26)  
Record 1298: Tue Apr 14 14:34:24.020000 2020 [IPMI.notice]: 001c | 02 |  
EVT: 6fc220ff | System_FW_Status | Assertion Event, "Bootloader is  
running"
```

- 重新安装控制器后、问题描述仍然存在、并且没有任何缆线连接到e0M/e0M SP
 - (要排除因[“SP IPMI故障”](#)而导致节点关闭和启动失败中所述的SP流量过多问题)