



同一主机SID导致FCP Sand-转储和IO wqe失败、并显示Ext_Status 0x16

https://kb-cn.netapp.com/on-prem/ontap/da/SAN/SAN-KBs/FCP_SRAM_DUMP_and_IO_WQE_failure_...

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适用场景

- ONTAP 9.x
- FC

问题描述

- EMS 日志使用报告IO WQE failure Ext_Status 0x16.
- [扩展状态0x16](#) 进一步指示主机启动程序已发送中止以清除当前命令队列。

```
Sun May 14 23:05:37 +0530 [NetApp: fct_tpd_work_thread_0:  
fcp.io.status:debug]: STIO Adapter:2b IO WQE failure, Handle 0x1,
```

Type 8, S_ID: 61xx0, VPI: 276, OX_ID: 1B28, **Status 0x3 Ext_Status 0x16**

Sun May 14 23:05:50 +0530 [NetApp: fct_tpd_work_thread:
ems.engine.suppressed:debug]: Event 'fcp.io.status' suppressed 1
times in last 5 seconds.

Sun May 14 23:05:50 +0530 [NetApp: fct_tpd_work_thread_0:
fcp.io.status:debug]: STIO Adapter:3b IO WQE failure, Handle 0x3,
Type 8, S_ID: 61xx0, VPI: 276, OX_ID: 2588, Status 0x3 Ext_Status
0x16

Sun May 14 23:06:05 +0530 [NetApp: fct_tpd_work_thread:
ems.engine.suppressed:debug]: Event 'fcp.io.status' suppressed 2
times in last 15 seconds.

- EMS 登录存储报告正在重置FCP SRAMP Dump a 和适配器：

Sun Dec 03 17:08:54 0000 [NetApp: fct_tpd_work_thread_0:
fcp.io.status:debug]: STIO Adapter:4b IO WQE failure, Handle 0x1,
Type 8, S_ID: 0x61xx0, VPI: 275, OX_ID: 5FBB, **Status 0x3 Ext_Status 0x16**

Sun Dec 03 17:09:16 0000 [NetApp: fct_tpd_thread_1:
scsitarget.fcp.dump:debug]: FCP target SRAM dump generated for
adapter 4b, FW Initiated Dump

Sun Dec 03 17:09:16 0000 [NetApp: fct_tpd_thread_1:
scsitarget.hwpfct.errorReset:notice]: An error was encountered in the
FC target driver on Fibre Channel target adapter 4b. The adapter will
be automatically reset to clear the status:0x87800000,
status1:0x52004c62, status2:0x610102, DIP:1, RN:1, RDY:1, Dump
owner:1 condition.

Sun Dec 03 17:09:16 0000 [NetApp: fct_tpd_thread_0:
scsitarget.hwpfct.errorReset:notice]: An error was encountered in the
FC target driver on Fibre Channel target adapter 4a. The adapter will
be automatically reset to clear the status:0x87800000,
status1:0x52004c62, status2:0x610102, DIP:1, RN:1, RDY:1, Dump
owner:1 condition.

Sun Dec 03 17:09:16 0000 [NetApp: fct_tpd_thread_0:
fcp.io.status:debug]: STIO Adapter 4a resetting with 28 ITNs and 10
commands to drain

Sun Dec 03 17:09:16 0000 [NetApp: fct_tpd_thread_0:

```
scsitarget.fct.reset:notice]: Resetting Fibre Channel target adapter 4a.
```

```
Sun Dec 03 17:09:17 0000 [NetApp: fct_tpd_thread_1:  
scsitarget.hwpfct.dump.saved:notice]: A dump for adapter 4b was  
stored in /etc/log/fctslr_4b_20231203_170916/fct_fw_4b.dmp.gz.
```

```
Sun Dec 03 17:09:17 0000 [NetApp: fct_tpd_thread_1:  
callhome.fcp.sram.dump:error]: Call home for FCP SRAM DUMP.
```

```
Sun Dec 03 17:09:17 0000 [NetApp: fct_tpd_thread_1:  
scsitarget.fct.reset:notice]: Resetting Fibre Channel target adapter 4b.
```

```
Dec 03 17:09:18 0000 [NetApp: fct_tpd_work_thread_0:  
scsitarget.hwpfct.linkUp:notice]: Link up on Fibre Channel target  
adapter 4a.
```

```
Sun Dec 03 17:09:18 0000 [NetApp: fct_tpd_work_thread_0:  
scsitarget.hwpfct.linkUp:notice]: Link up on Fibre Channel target  
adapter 4b.
```

- EMS 中报告了STIO挂起cmd事件、其中state=10和state =5 也是如此 SID 0x61xx0

```
Sun May 14 23:13:42 +0530 [NetApp: fct_tpd_thread_1:  
fcp.io.status:debug]: STIO Adapter:2b, found hung  
cmd:0xffffffff8188234ab78(state=10, flags=0x2, ctio_sent=2/  
3,RecvExAddr=0x2ae5, OX_ID=0x1e66, RX_ID=0xffff, SID=0x61xx0, Cmd[28],  
req_q_free:0)
```

```
Wed Dec 20 21:36:21 +0000 [NetApp: fct_tpd_thread_3: fcp.io.status:debug]:  
STIO Adapter:4d, found hung cmd:0xffffffff81e0a7d1038(state=5, flags=0x0,  
ctio_sent=1/5,RecvExAddr=0x271f, OX_ID=0x5ee9, RX_ID=0xffff, SID=0x61xx0,  
Cmd[2A], req_q_free:0)
```

- 注意：State=5：DATAOUT等待 这表示FC目标正在等待在接受写入请求后从主机返回的内容；但是、在预期超时值内未返回任何内容。

- 存储端口上的Rx和Tx电源处于最佳范围。
- 检查主机和交换机之间是否存在任何物理层问题、例如SFP、缆线、配线板。

