



EMS日志报告"disk.ioRecoveredError.retry"

https://kb-cn-stage.netapp.com/on-prem/ontap/OHW/OHW-KBs/EMS_log_reports_disk.ioRecoveredErr...

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适用场景

- AFF 和 FAS
- ONTAP 9
- 一个或多个磁盘

问题描述

- 报告多个SCSI错误所有节点上的event log:

```
::> event log show -event *scsi*
Time          Node          Severity Event
-----
1/2/2022 01:10:01 node_name ERROR scsi.cmd.checkCondition: Disk device
0a.0.1: Check Condition: CDB 0x28:00000008:0008: Sense Data SCSI:recovered
error - (0x1 - 0xb 0x4 0x0) (7).
```

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```
1/2/2022 02:21:02 node_name ERROR scsi.cmd.checkCondition: Disk device
0a.0.1: Check Condition: CDB 0x2f:46b6c000:0400: Sense Data SCSI:recovered
error - (0x1 - 0xb 0x4 0x0) (15).
1/2/2022 03:32:03 node_name ERROR scsi.cmd.checkCondition: Disk device
0a.0.1: Check Condition: CDB 0x2f:1e23b400:0400: Sense Data SCSI:recovered
error - (0x1 - 0xb 0x4 0x0) (13).
```

- 多条EMS消息、其中包含SCSI已恢复错误和重新分配的扇区：

```
[node_name: isp2400_intrd: scsi.cmd.checkCondition:error]: Disk device 0a.0.1:
Check Condition: CDB 0x28:884ca070:0120: Sense Data SCSI:recovered error -
(0x1 - 0x17 0x2 0x1) (1188).
```

```
[node_name: disk_server_0: disk.ioRecoveredError.retry:info]: Recovered error
on disk 0a.0.1: op 0x28:884ca070:0120 sector 2286723192 SCSI:recovered error -
Disk used internal retry algorithm to obtain data (1 17 2 1) (1188) Disk 0a.0.1
Shelf 0 Bay 1 [NETAPP X343_SSKBE1T8A10 NA03] S/N [ABC12D3E] UID [...]
```

```
[node_name: disk_server_0: disk.ioReassignSuccess:notice]: disk 0a.0.1: sector
2286723192 was reassigned (171). Disk 0a.0.1 Shelf 0 Bay 1 [NETAPP
X343_SSKBE1T8A10 NA03] S/N [ABC12D3E] UID [...]
```

```
[scsi_cmdblk_strthr_admin: scsi.cmd.notReadyConditionEMSONly:debug]: Disk
device 0a.0.1: Device returns not yet ready: CDB 0x2f:dce62400:0400: Sense Data
SCSI:not ready - Drive spinning up (0x2 - 0x4 0x1 0x2) (22633).
```

```
[scsi_cmdblk_strthr_admin: scsi.cmd.notReadyCondition:notice]: Disk device
0a.0.1: Device returns not yet ready: CDB 0x88:00000002fbbd8930:00000008: Sense
Data SCSI:not ready - Drive spinning up (0x2 - 0x4 0x1 0x2) (22567).
```

- RAID错误报告、已在EMS中成功修复

```
[node_name: raidio_thread: raid_read_media_err_1:notice]: params: {'disk_rpm':
'7200', 'vendor': 'NETAPP ', 'firmware_revision': 'NA03', 'shelf': '0',
'disk_info': 'Disk /aggr/plex0/rg0/0a.00.1 Shelf 0 Bay
1 [NETAPP X343_SSKBE1T8A10 NA03] S/N [ABC12D3E]', 'site': 'Local', 'bay':
'1', 'carrier': '', 'serialno': 'ABC12D3E', 'owner': '', 'model':
'X343_SSKBE1T8A10 ', 'disk_type': '8', 'blockNum': '0123456789'}
```

```
[node_name: raidio_thread: raid_rg_readerr_repair_data_1:notice]: params:
{'site': 'Local', 'disk_rpm': '7200', 'vendor': 'NETAPP ',
'firmware_revision': 'NA03', 'shelf': '0', 'disk_info': 'Disk /aggr/plex0/rg0/
0a.00.1 Shelf 0 Bay 1 [NETAPP X343_SSKBE1T8A10 NA03] S/N [ABC12D3E]', 'vbn':
'9876543210', 'bay': '17', 'carrier': '', 'serialno': 'ABC12D3E', 'owner': '',
```

```
'model': 'X343_SSKBE1T8A10', 'disk_type': '8', 'blockNum': '0123456789'}
```

- EMS中会报告中等错误：

```
[node_name: disk_server_1: disk.ioMediumError:notice]: Medium error on disk  
0a.0.1: op 0x2f:9a010400:0400 sector 0123456789 SCSI:medium error - Unrecovered  
read error - If the disk is in a RAID group, the subsystem will attempt to  
reconstruct unreadable data (3 11 ff 0) (4368) Disk 0a.0.1 Shelf 0 Bay 1  
[NETAPP X343_SSKBE1T8A10 NA03] S/N [ABC12D3E] UID [...]
```