



使用ADP更换磁盘后、无法开始重建

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

Updated: Wed, 22 Apr 2026 07:31:31 GMT

适用场景

- ONTAP 9
- 高级磁盘分区(ADP)

问题描述

- 磁盘出现故障、因此更换新磁盘、但无法识别。
- RAID组"n1_aggr1"已降级、pool0中的现有备用磁盘和新磁盘均无法重建。

节点2 Sysconfig -r的示例：

```
Aggregate n1_aggr1 (online, raid_dp, degraded) (block checksums)
  Plex /n1_aggr1/plex0 (online, normal, active, pool0)
    RAID group /n1_aggr1/plex0/rg0 (degraded, block checksums)
```

RAID Disk	Device	HA	SHELF	BAY	CHAN	Pool	Type	RPM	Used (MB/
-----------	--------	----	-------	-----	------	------	------	-----	-----------

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```

blks)   Phys (MB/blks)
-----
-----
dparity 0a.00.0P1 0a 0 0 SA:B 0 FSAS 7200 3660678/
7497068544 3660686/7497084928
parity 0a.00.1P1 0a 0 1 SA:B 0 FSAS 7200 3660678/
7497068544 3660686/7497084928
data 0a.00.2P1 0a 0 2 SA:B 0 FSAS 7200 3660678/
7497068544 3660686/7497084928
data 0a.00.3P1 0a 0 3 SA:B 0 FSAS 7200 3660678/
7497068544 3660686/7497084928
data FAILED N/A 3660678/ -
data 0a.00.5P1 0a 0 5 SA:B 0 FSAS 7200 3660678/
7497068544 3660686/7497084928
data 0a.00.6P1 0a 0 6 SA:B 0 FSAS 7200 3660678/
7497068544 3660686/7497084928
data 0a.00.7P1 0a 0 7 SA:B 0 FSAS 7200 3660678/
7497068544 3660686/7497084928
data 0a.00.8P1 0a 0 8 SA:B 0 FSAS 7200 3660678/
7497068544 3660686/7497084928
data 0a.00.9P1 0a 0 9 SA:B 0 FSAS 7200 3660678/
7497068544 3660686/7497084928

```

Aggregate n2_aggr1 (online, raid_dp) (block checksums)

Plex /n2_aggr1/plex0 (online, normal, active, pool0)

RAID group /n2_aggr1/plex0/rg0 (normal, block checksums)

```

RAID Disk Device HA SHELF BAY CHAN Pool Type RPM Used (MB/blks)
Phys (MB/blks)
-----
-----
dparity 0b.10.0 0b 10 0 SA:A 0 SAS 10000 1142352/
2339537408 1144641/2344225968
parity 0b.10.1 0b 10 1 SA:A 0 SAS 10000 1142352/
2339537408 1144641/2344225968
data 0b.10.2 0b 10 2 SA:A 0 SAS 10000 1142352/2339537408
1144641/2344225968
data 0b.10.3 0b 10 3 SA:A 0 SAS 10000 1142352/
2339537408 1144641/2344225968

```

```

    data      0b.10.4      0b   10   4   SA:A   0   SAS 10000 1142352/
2339537408 1144641/2344225968
    data      0b.10.5      0b   10   5   SA:A   0   SAS 10000 1142352/
2339537408 1144641/2344225968
    data      0b.10.6      0b   10   6   SA:A   0   SAS 10000 1142352/2339537408
1144641/2344225968
    data      0b.10.7      0b
10  7   SA:A   0   SAS 10000 1142352/2339537408 1144641/2344225968
    data      0b.10.8      0b   10   8   SA:A   0   SAS 10000 1142352/
2339537408 1144641/2344225968
    data      0b.10.9      0b   10   9   SA:A   0   SAS 10000 1142352/
2339537408 1144641/2344225968

```

```

Aggregate n2_aggr0 (online, raid_dp) (block checksums)
Plex /n2_aggr0/plex0 (online, normal, active, pool0)
RAID group /n2_aggr0/plex0/rg0 (normal, block checksums)

```

RAID Disk	Device	HA	SHELF	BAY	CHAN	Pool	Type	RPM	Used (MB/
blks)	Phys (MB/blks)								
dparity	0a.00.0P2	0a	0	0	SA:B	0	FSAS	7200	147102/301265408
147110/301281792									
parity	0a.00.2P2	0a	0	2	SA:B	0	FSAS	7200	147102/301265408
147110/301281792									
data	0a.00.10P2	0a	0	10	SA:B	0	FSAS	7200	147102/
301265408	147110/301281792								
data	0a.00.6P2	0a	0	6	SA:B	0	FSAS	7200	147102/
301265408	147110/301281792								
data	0a.00.8P2	0a	0	8	SA:B	0	FSAS	7200	147102/301265408
147110/301281792									

Pool1 spare disks (empty)

Pool0 spare disks

RAID Disk	Device	HA	SHELF	BAY	CHAN	Pool	Type	RPM	Used (MB/blks)
Phys (MB/blks)									
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

```

Spare disks for block checksum
spare      0b.10.10   0b 10 10  SA:A   0   SAS 10000 1142352/2339537408
1144641/2344225968
  spare     0b.10.11   0b  10 11  SA:A   0   SAS 10000 1142352/
2339537408 1144641/2344225968
  spare     0b.00.4P2  0b   0  4  SA:A   0   FSAS 7200 147102/301265408
147110/301281792

```

- "n1_aggr1" 是已配置的分区P1磁盘、因此、从配对节点1移动分区P1磁盘、但仍无法开始重建。

节点2 Sysconfig -r的示例：

```

Aggregate n1_aggr1 (online, raid_dp, degraded) (block checksums)
Plex /n1_aggr1/plex0 (online, normal, active, pool0)
RAID group /n1_aggr1/plex0/rg0 (degraded, block checksums)

RAID Disk   Device      HA  SHELF BAY CHAN Pool Type  RPM  Used (MB/
blks)   Phys (MB/blks)
-----
-----
-----
dparity     0a.00.0P1   0a  0  0  SA:B   0  FSAS  7200 3660678/
7497068544 3660686/7497084928
  parity     0a.00.1P1   0a  0  1  SA:B   0  FSAS  7200 3660678/
7497068544 3660686/7497084928
    data     0a.00.2P1   0a  0  2  SA:B  0  FSAS  7200 3660678/
7497068544 3660686/7497084928
    data     0a.00.3P1   0a  0  3  SA:B   0  FSAS  7200 3660678/
7497068544 3660686/7497084928
    data     FAILED      N/A                3660678/ -
    data     0a.00.5P1   0a  0  5  SA:B   0  FSAS  7200 3660678/
7497068544 3660686/7497084928
    data     0a.00.6P1   0a  0  6  SA:B   0  FSAS  7200 3660678/
7497068544 3660686/7497084928
    data     0a.00.7P1   0a  0  7  SA:B   0  FSAS  7200 3660678/
7497068544 3660686/7497084928
    data     0a.00.8P1   0a  0  8  SA:B   0  FSAS  7200 3660678/
7497068544 3660686/7497084928
    data
    0a.00.9P1  0a  0  9  SA:B   0  FSAS  7200 3660678/7497068544
3660686/7497084928

```

```
Aggregate n2_aggr1 (online, raid_dp) (block checksums)
Plex /n2_aggr1/plex0 (online, normal, active, pool0)
RAID group /n2_aggr1/plex0/rg0 (normal, block checksums)
```

RAID blks)	Disk Phys (MB/blks)	Device	HA	SHELF	BAY	CHAN	Pool	Type	RPM	Used (MB/
dparity	0b.10.0	0b	10	0	SA:A	0	SAS	10000	1142352/	
2339537408	1144641/2344225968									
parity	0b.10.1	0b	10	1	SA:A	0	SAS	10000	1142352/	
2339537408	1144641/2344225968									
data	0b.10.2	0b	10	2	SA:A	0	SAS	10000	1142352/	
2339537408	1144641/2344225968									
data	0b.10.3	0b	10	3	SA:A	0	SAS	10000	1142352/2339537408	
1144641/2344225968										
data	0b.10.4	0b	10	4	SA:A	0	SAS	10000	1142352/	
2339537408	1144641/2344225968									
data	0b.10.5	0b	10	5	SA:A	0	SAS	10000	1142352/	
2339537408	1144641/2344225968									
data	0b.10.6	0b	10	6	SA:A	0	SAS	10000	1142352/	
2339537408	1144641/2344225968									
data	0b.10.7	0b	10	7	SA:A	0	SAS	10000	1142352/	
2339537408	1144641/2344225968									
data	0b.10.8	0b	10	8	SA:A	0	SAS	10000	1142352/2339537408	
1144641/2344225968										
data	0b.10.9	0b	10	9	SA:A	0	SAS	10000	1142352/	
2339537408	1144641/2344225968									

```
Aggregate n2_aggr0 (online, raid_dp) (block checksums)
Plex /n2_aggr0/plex0 (online, normal, active, pool0)
RAID group /n2_aggr0/plex0/rg0 (normal, block checksums)
```

RAID blks)	Disk Phys (MB/blks)	Device	HA	SHELF	BAY	CHAN	Pool	Type	RPM	Used (MB/
dparity	0a.00.0P2	0a	0	0	SA:B	0	FSAS	7200	147102/	
301265408	147110/301281792									
parity	0a.00.2P2	0a	0	2	SA:B	0	FSAS	7200	147102/301265408	
147110/301281792										

```

data      0a.00.10P2  0a  0  10  SA:B 0  FSAS  7200 147102/301265408
147110/301281792
data      0a.00.6P2   0a  0  6   SA:B  0  FSAS  7200 147102/
301265408 147110/301281792
data      0a.00.8P2   0a  0  8   SA:B  0  FSAS  7200 147102/
301265408 147110/301281792

```

Pool1 spare disks (empty)

Pool0 spare disks

```

RAID Disk  Device      HA  SHELF BAY CHAN Pool Type  RPM  Used (MB/blks)
Phys (MB/blks)
-----

```

Spare disks for block checksum

```

spare      0b.10.10  0b  10  10  SA:A  0  SAS 10000 1142352/
2339537408 1144641/2344225968
spare      0b.10.11  0b  10  11  SA:A  0  SAS 10000 1142352/2339537408
1144641/2344225968
spare      0a.00.4P2  0a  0  4   SA:B  0  FSAS  7200 147102/301265408
147110/301281792
spare      0a.00.4P1  0a  0  4   SA:B  0  FSAS  7200 3660678/7497068544
3660686/7497084928
spare      0a.00.10P1 0a  0  10  SA:B  0  FSAS  7200 3660678/
7497068544 3660686/7497084928
spare      0a.00.11P1 0a  0  11  SA:B  0  FSAS  7200 3660678/7497068544
3660686/7497084928

```