

知 UIS超融合单块硬盘无法识别，更换硬盘依然无法识别

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组网及说明

UIS6.5标准版

问题描述

UIS超融合出现逻辑掉盘，导致在uis主机硬盘状态显示异常，但更换硬盘后无法被识别
硬盘故障导致UIS主机硬盘状态显示异常



The screenshot shows the 'Storage Nodes' management page in the UIS Superfusion Management Platform. The table displays the following data:

名称	状态	存储外网IP地址	磁盘状态	存储容量	存储利用率	CPU利用率	内存	内存利用率
UIS9	异常	172.16.4.9	5 (1 4 1 0 0 0)	3.64TB	0.21%	6.23%	125.55GB	15.34%
UIS10	正常	172.16.4.10	5 (1 5 0 0 0 0)	3.64TB	0.21%	4.89%	125.55GB	13.27%
UIS11	正常	172.16.4.11	5 (1 5 0 0 0 0)	3.64TB	0.21%	3.75%	125.55GB	12.55%

过程分析

1、删除故障盘

The screenshot shows a storage management dashboard with a table of disks and a confirmation dialog box. The dialog box contains the following text:

操作确认

磁盘"sdb"上的数据将平衡到其他磁盘上,如果其他磁盘的容量不足将导致集群数据不平衡,确定移除吗?

确定 取消

名称	状态	存储外网IP地址	磁盘状态	存储容量	存储利用率	CPU利用率	内存	内存利用率
UIS9	异常	172.16.4.9	5 [4 1 0 0]	3.64TB	0.21%	6.23%	125.55GB	15.34%
UIS10	正常	172.16			0.21%	4.89%	125.55GB	13.27%
UIS11	正常	172.16			0.21%	3.75%	125.55GB	12.55%

磁盘名称	硬盘池	使用类型	状态	容量	磁盘利用率	类型	接口类型	位置	阵列卡	磁盘灯状态	操作
sdb	diskpool_hdd	数据盘	异常	931.51GB	0.18%	HDD	SATA	0.0	Adaptec-1	OFF	⚙️ ⚠️ 🗑️
sdc	diskpool_hdd	数据盘	正常	931.51GB	0.21%	HDD	SATA	0.1	Adaptec-1	OFF	⚙️ ⚠️ 🗑️

2、更换硬盘,但在uis前台无法识别;

解决方法

1、使用raid卡命令行工具，服务器的raid卡是P440，使用如下命令；

```
hpssacli ctrl slot=1 physicaldrive all show detail
```

```
hpssacli ctrl slot=1 localdrive all show detail
```

```
hpssacli ctrl slot=1 modify drivewritecache=disable
```

```
hpssacli ctrl slot=1 create type=ld drives=1l:1:3 raid=0
```

```
hpssacli ctrl slot=1 pd all show
```

```
[root@B-UIS-01 ~]# hpssacli ctrl slot=1 pd all show
Smart Array P440 in Slot 1

  array A

    physicaldrive 1I:1:1 (port 1I:box 1:bay 1, SAS, 2 TB, OK)
    physicaldrive 1I:1:2 (port 1I:box 1:bay 2, SAS, 2 TB, OK)

  array B

    physicaldrive 1I:1:4 (port 1I:box 1:bay 4, SAS, 2 TB, OK)

  array C

    physicaldrive 1I:1:5 (port 1I:box 1:bay 5, SAS, 2 TB, OK)

  array D

    physicaldrive 1I:1:6 (port 1I:box 1:bay 6, SAS, 2 TB, OK)

  unassigned

    physicaldrive 1I:1:3 (port 1I:box 1:bay 3, SAS, 2 TB, OK)
```

```
[root@B-UIS-01 ~]# hpssacli ctrl slot=1 pd all show
Smart Array P440 in Slot 1

  array A

    physicaldrive 1I:1:1 (port 1I:box 1:bay 1, SAS, 2 TB, OK)
    physicaldrive 1I:1:2 (port 1I:box 1:bay 2, SAS, 2 TB, OK)

  array B

    physicaldrive 1I:1:4 (port 1I:box 1:bay 4, SAS, 2 TB, OK)

  array C

    physicaldrive 1I:1:5 (port 1I:box 1:bay 5, SAS, 2 TB, OK)

  array D

    physicaldrive 1I:1:6 (port 1I:box 1:bay 6, SAS, 2 TB, OK)
```

```
[root@B-UIS-01 ~]# hpssacli ctrl slot=1 logicaldrive all show
Smart Array P440 in Slot 1

  array A

    logicaldrive 1 (1.8 TB, RAID 1, OK)

  array B

    logicaldrive 2 (1.8 TB, RAID 0, OK)

  array C

    logicaldrive 3 (1.8 TB, RAID 0, OK)

  array D

    logicaldrive 4 (1.8 TB, RAID 0, Failed)

  array E

    logicaldrive 5 (1.8 TB, RAID 0, OK)

[root@B-UIS-01 ~]# hpssacli ctrl slot=1 logicaldrive 4 delete forced
Warning: Deleting an array can cause other array letters to become renamed.
E.g. Deleting array A from arrays A,B,C will result in two remaining
arrays A,B ... not B,C
```

2、使用命令重新制作raid0后，在uis主机可以看到，添加硬盘；

