

知 ONEStor环境下仅知道osd编号查找硬盘物理位置方案

江淮 2023-09-29 发表

问题描述

ONEStor问题处理中有时会遇到仅知道osd编号的场景，此时需要反查硬盘物理位置

过程分析

根据osd编号查找硬盘slot号, 然后进行点灯操作

解决方法

1. ceph osd find x, 查询硬盘所在节点的ip

```
[root@XJDX-~]# ceph osd find 58
{
  "osd": 58,
  "ip": "172.18.60.11:6818/285489",
  "crush_location": {
    "host": "XJDX-...",
    "rack": "...",
    "root": "..."
  }
}
```

2. 登陆硬盘所在节点的后台, mount |grep x查询对应盘符, 如图可知盘符为sde

```
[root@XJDX-~]# mount |grep x
devtmpfs on /dev type devtmpfs (rw,nosuid,size=65861120k,nr_inodes=16465280,mode=755)
/dev/sde1 on /var/lib/ceph/osd/ceph-58 type xfs (rw,noatime,attr2,inode64,sunit=512,swidth=512,n
```

3. lsscsi回显第三位查找盘符对应的逻辑阵列, 如图sde对应的阵列为阵列4

```
[root@XJDX-~]# lsscsi
[0:0:0:0]   enclosu SUGON      80H10931310      1201  -
[0:2:0:0]   disk    AVAGO      MR9361-8i        4.68  /dev/sda
[0:2:1:0]   disk    AVAGO      MR9361-8i        4.68  /dev/sdb
[0:2:2:0]   disk    AVAGO      MR9361-8i        4.68  /dev/sdc
[0:2:3:0]   disk    AVAGO      MR9361-8i        4.68  /dev/sdd
[0:2:4:0]   disk    AVAGO      MR9361-8i        4.68  /dev/sde
[0:2:5:0]   disk    AVAGO      MR9361-8i        4.68  /dev/sdf
[0:2:6:0]   disk    AVAGO      MR9361-8i        4.68  /dev/sdg
[0:2:7:0]   disk    AVAGO      MR9361-8i        4.68  /dev/sdh
[0:2:8:0]   disk    AVAGO      MR9361-8i        4.68  /dev/sdi
[0:2:9:0]   disk    AVAGO      MR9361-8i        4.68  /dev/sdj
[0:2:10:0]  disk    AVAGO      MR9361-8i        4.68  /dev/sdk
[0:2:11:0]  disk    AVAGO      MR9361-8i        4.68  /dev/sdl
[0:2:12:0]  disk    AVAGO      MR9361-8i        4.68  /dev/sdm
```

4. megacli -cfgdply -aALL, 查询阵列与slot的对应关系, 此外此指令也可以查询硬盘sn等信息

```
Virtual Drive: 4 (Target Id: 4)
Name           :
RAID Level     : Primary-0, Secondary-0, RAID Level Qualifier-0
Size          : 3.637 TB
Sector Size   : 512
Is VD emulated : Yes
Parity Size    : 0
State         : Optimal
Strip Size    : 256 KB
Number Of Drives : 1
Span Depth    : 1
Default Cache Policy: WriteBack, ReadAhead, Direct, No Write Cache if Bad BBU
Current Cache Policy: WriteBack, ReadAhead, Direct, No Write Cache if Bad BBU
Default Access Policy: Read/Write
Current Access Policy: Read/Write
Disk Cache Policy : Disabled
Encryption Type : None
Bad Blocks Exist: Yes
PI type: No PI

Is VD Cached: No
Physical Disk Information:
Physical Disk: 0
Enclosure Device ID: 8
Slot Number: 7
Drive's position: DiskGroup: 4, Span: 0, Arm: 0
Enclosure position: 1
Device Id: 19
mMn: 5000cca269ca5434
Sequence Number: 2
Media Error Count: 0
```

5. 根据查到的slot信息, 进行硬盘点灯从而定位硬盘物理位置

```
[root@XJDX-~]# megacli -pdlocate -start -physdrv[8:7] -a0
Adapter: 0: Device at EnclId-8 SlotId-7 -- PD Locate Start Command was successfully sent to Firmware
Exit Code: 0x00
[root@XJDX-stor11 ~]#
```

