Smart Storage Administrator Linux系统安装 吕飞 2017-12-13 发表

SSA CLI 工具基本常用命令介绍: 英文缩写对应关系: Chassisname=ch; cOntroller=ctrl; logicaldrive=ld; physicaldrive=pd; drviewrit ecache=dwc; 进入ssacli工具:在root用户下输入 ssacli 查看阵列配置信息: ctrl all show config 查看详细信息: ctrl all show config detail 查看阵列卡、阵列卡缓存和电池状态 ctrl all show status 查看所有的Logicaldrive: ctrl slot=0 ld all show 收集ADU日志: ctrl slot=0 diag file=\adureport.zip ris=off zip=on (file=文件路径名,文件的扩展名可 以为txt或zip, ris表示reserve information sector) 更多命令介绍请参考Smart Storage Administrator 用户指南。 SSACLI 安装: 1.登录HPE官方网站下载SSACLI工具。 2.把SSACLI工具复制到Linux系统下。 3.在Linux系统下使用root用户,使用:chmod 777 SSACLI-xxx.rpm 添加权限。 [root@lvfei 桌面]# ls hponcfg-4.6.0-0.x86_64.rpm kmod-hpilo-1.3-259.43.rhel6u1.x86_64.rpm [root@lvfei 桌面]# chmod 777 ssacli-2.65-7.0.x86_64.rpm hponcfg-4.6.0-0.x86_64.rpm 64. rpm ssacli-2.65-7.0.x86_64. rpm 3. rhel6u1.x86_64. rpm ssaducli-2.65-7.0.x86_64. rpm [root@lvfei 桌面]# 4.运行rpm -ivh XXX文件名安装SSACLI工具。 [root@lvfei 桌面]# 📕 5.输入ssacli进入配置。 [root@lvfei 桌面]# ssacli Imart Storage Administrator CLI 2.65.7.0 Type "help" for a list of supported commands. Type "exit" to close the console. => SSACLI创建阵列: 1.先查看硬盘及阵列信息(如下图21:6:5硬盘是没有创建阵列的硬盘)。 ctrl slot=0 pd all show 「root@lvfei 桌面]# ssacli Smart Storage Administrator CLI 2.65.7.0 Detecting Controllers...Done. Type "help" for a list of supported commands. Type "exit" to close the console. => ctrl slot=0 pd all show Smart Array P440ar in Slot 0 (Embedded) Array A physicaldrive 1I:6:3 (port 1I:box 6:bay 3, SAS HDD, 300 GB, OK) physicaldrive 1I:6:4 (port 1I:box 6:bay 4, SAS HDD, 300 GB, OK) Unassigned physicaldrive 2I:6:5 (port 2I:box 6:bay 5, SAS HDD, 300 GB, OK) => 2.由于本次实验用机只有一块硬盘可以创建阵列,做一个RAID0测试,创建后会多一个Array。 如果有多块硬盘做阵列例如: ctrl slot=0 create type=ld drives=21:6:3,21:6:4,21:6:5raid=5 => ctrl slot=0 create type=ld drives=2I:6:5 raid= => ctrl slot=0 pd all show 创建阵列 Smart Array P440ar in Slot 0(Embedded) Array A physicaldrive 1I:6:3 (port 1I:box 6:bay 3, SAS HDD, 300 GB, OK) physicaldrive 1I:6:4 (port 1I:box 6:bay 4, SAS HDD, 300 GB, OK) Array B physicaldrive 2I:6:5 (port 2I:box 6:bay 5, SAS HDD, 300 GB, OK) =>

删除阵列: 1.先查看服务器当前的阵列: ctrl slot=0 ld all show

```
=> ctrl slot=0 ld all show
Smart Array P440ar in Slot 0 (Embedded)
    Array A
        logicaldrive 1 (558.7 GB, RAID 0, OK)
    Array B
         logicaldrive 2 (279.4 GB, RAID 0, OK)
=>
2.删除阵列B:
ctrl slot=0 ld2 delete
警告信息:删除阵列会导致所有数据丢失,按Y继续。
=> ctrl slot=0 ld 2 delete
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
Warning: Deleting the specified device(s) will result in data being lost. Continue? (y/n) y
=>
3.删除阵列后查看阵列,已经删除只剩下一个阵列ArrayA。
ctrl slot=0 ld all show
=> ctrl slot=0 ld all show
Smart Array P440ar in Slot 0 (Embedded)
    Array A
         logicaldrive 1 (558.7 GB, RAID 0, OK)
=>
阵列扩容:
1.查看当前硬盘信息。
ctrl slot=0 pd all show
=>
=> ctrl slot=0 pd all show
Smart Array P440ar in Slot 0 (Embedded)
   Array A
      physicaldrive 1I:6:4 (port 1I: box 6: bay 4, SAS HDD, 300 GB, OK)
   Unassigned
      physicaldrive 1I:6:3 (port 1I:box 6:bay 3, SAS HDD, 300 GB, OK)
2.把ArrayA进行扩容。
ctrl slot=0 array A add drives=11: 6:3
\mathbb{I}_{>}
    ctrl slot=0 array A add drives=1I:6:3
=>
3.查看扩容后的阵列硬盘信息。
=> ctrl slot=0 pd all show
Smart Array P440ar in Slot 0 (Embedded)
   Array A
      physicaldrive 1I:6:3 (port 1I:box 6:bay 3, SAS HDD, 300 GB, 0K)
physicaldrive 1I:6:4 (port 1I:box 6:bay 4, SAS HDD, 300 GB, 0K)
=>
4.查看阵列配置信息,硬盘正在扩容,3.38%。
=> ctrl all show config
Smart Array P440ar in Slot 0 (Embedded) (sn: PDNLH0BRH7N7MZ)
   Port Name: 1I
   Port Name: 2I
   Internal Drive Cage at Port 1I, Box 6, OK
   Internal Drive Cage at Port 2I, Box 0, OK
   Array A (SAS, Unused Space: 286070 MB)
      logicaldrive 1 (279.4 GB, RAID 0, Transforming, 3.38% complete)
      physicaldrive 1I:6:3 (port 1I: box 6: bay 3, SAS HDD, 300 GB, OK)
physicaldrive 1I:6:4 (port 1I: box 6: bay 4, SAS HDD, 300 GB, OK)
  T
```

5.等扩容进度已经完毕后再次查看阵列,ArrayA已经变成了两块硬盘,但是logicaldrive没有变化。

ctrl all show config

```
>> ctrl all show config
Smart Array P440ar in Slot 0 (Embedded) (sn: PDNLH0BRH7/N7MZ)
Port Name: 1I
Port Name: 2I
Internal Drive Cage at Port 1I, Box 6, OK
I
Internal Drive Cage at Port 2I, Box 0, OK
I
Array A (SAS, Unused Space: 236070 MB)
logicaldrive 1 (279.4 GB, RAID 0, OK)
physicaldrive 1 (279.4 GB, RAID 0, OK)
physicaldrive 116:4 (port 11: box 6: bay 4, SAS HDD, 300 GB, OK)
=> ■
```

6.扩容Logicaldriver。

ctrl slot=0 ld 1 modify size=max forced

=>_ctrl slot=0 ld 1 modify size=max forced

🔲 Ivfei@lvfei:/home/lvf… 🔲 Ivfei@lvfei:~/桌面

7.查看扩容后的阵列信息,显示logicaldrive 已经扩容成功。

```
>> ctrl all show config
Smart Array P440ar in Slot 0 (Embedded) (sn: PDNLHOBRH7N7MZ)
Port Name: 1I
Port Name: 2I
Internal Drive Cage at Port 1I, Box 6, OK
Internal Drive Cage at Port 2I, Box 0, OK
Array A (SAS, Unused Space: 0 MB)
logicaldrive 1 (558.7 GB, RAID 0, 0K)
physicaldrive 11:6:3 (port 11: box 6: bay 3, SAS HDD, 300 GB, 0K)
physicaldrive 11:6:4 (port 11: box 6: bay 4, SAS HDD, 300 GB, 0K)
```

=> ■ 阵列迁移:

1.ctrl slot=0 ld 1 modify raid=* (raid=* 表示想要迁移的raid级别, Raid0 不能往高的RAID级别迁移)

```
如下图,把 Raid级别迁移到了RAID0
```

```
=> ctrl slot=0 ld 1 modify raid=0
=> ctrl all show config
Smart Array P440ar in Slot 0 (Embedded) (sn: PDNLH0BRH7N7MZ)
Port Name: 1I
Port Name: 2I
Internal Drive Cage at Port 1I, Box 6, 0K
Internal Drive Cage at Port 2I, Box 0, 0K
Array A (SAS, Unused Space: 0 MB)
logicaldrive 1 (558.7 GB, RAID 0, Transforming, 0.04% complete)
physicaldrive 1I:6:3 (port 1I:box 6: bay 3, SAS HDD, 300 GB, 0K)
physicaldrive 1I:6:4 (port 1I:box 6: bay 3, SAS HDD, 300 GB, 0K)
```