HPE Gen10 服务器 P824 系列阵列卡 Windows/Linux/VMware 系统下通过 StorCLI 配置阵列

目录

一. 适用范围与注意事项

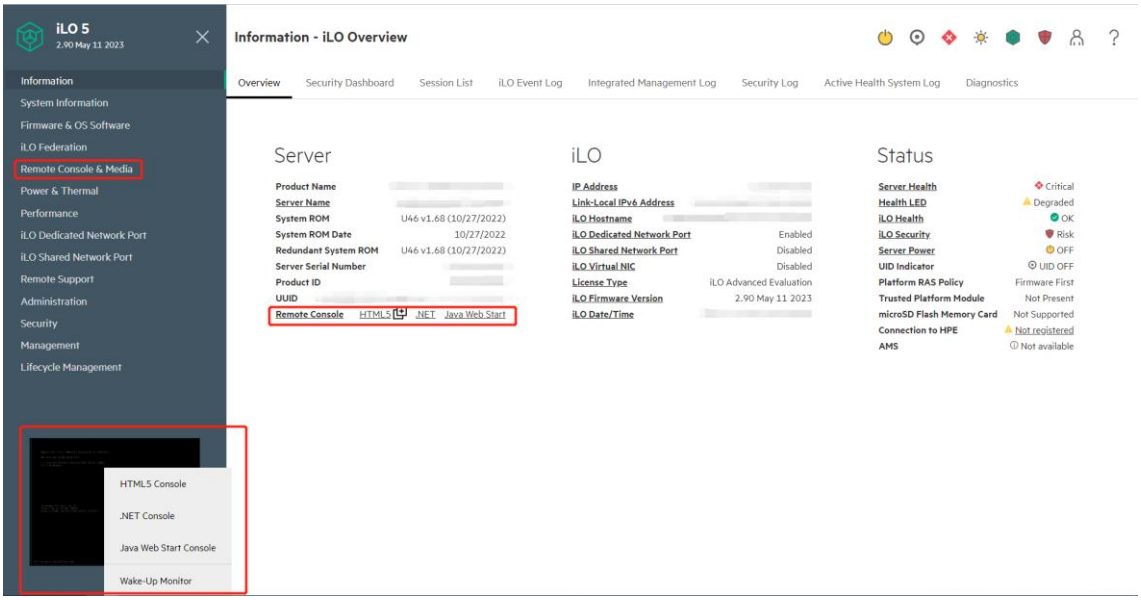
- 本文档旨在说明 HPE Gen10 系列服务器 P824 系列阵列卡不同系统下使用 MegaRAID Storage Administrator StorCLI 工具配置阵列的方法，并以 DL380 Gen10 服务器为例进行配置步骤说明。
- 实际情况是否适用本文档，请通过下面导航链接进行确认：
  https://zhiliao.h3c.com/Theme/details/218271
- 提示：
  本文档中的信息（包括产品，软件版本和设置参数）仅作参考示例，具体操作与目标需求设置请以实际为准。
  本文档不定期更新维护，请以发布的最新版本为准。

二. 配置准备

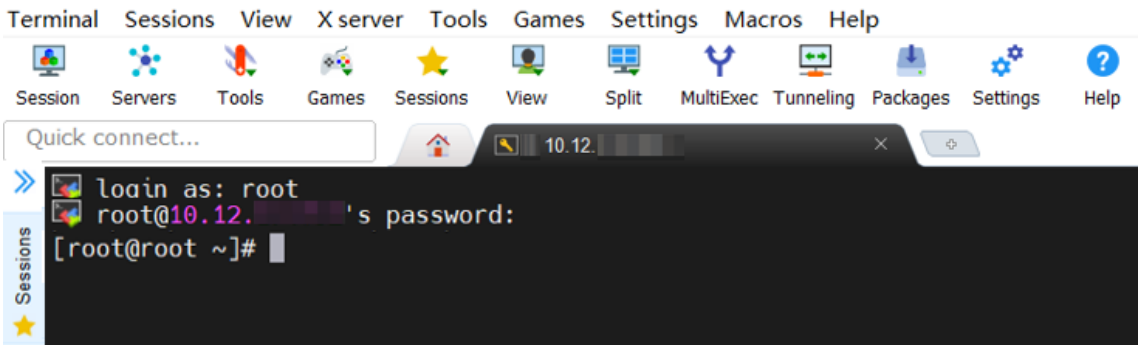
1. 下载 MegaRAID Storage Administrator StorCLI 工具
   - Windows 下载链接：HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit | HPE Support
   - Linux 下载链接：HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10 and Gen10 Plus Controllers) | HPE Support
   - VMware 下载链接：
     - ESXi 6.5：HPE MegaRAID Storage Administrator StorCLI for VMware6.5 | HPE Support
     - ESXi 6.7：HPE MegaRAID Storage Administrator StorCLI for VMware6.7 | HPE Support
     - ESXi 7.0：HPE MegaRAID Storage Administrator StorCLI for VMware7.0 | HPE Support
2. 连接 iLO 与启用远程控制台
   具体方法请参考：https://zhiliao.h3c.com/Theme/details/216337

三. 配置步骤

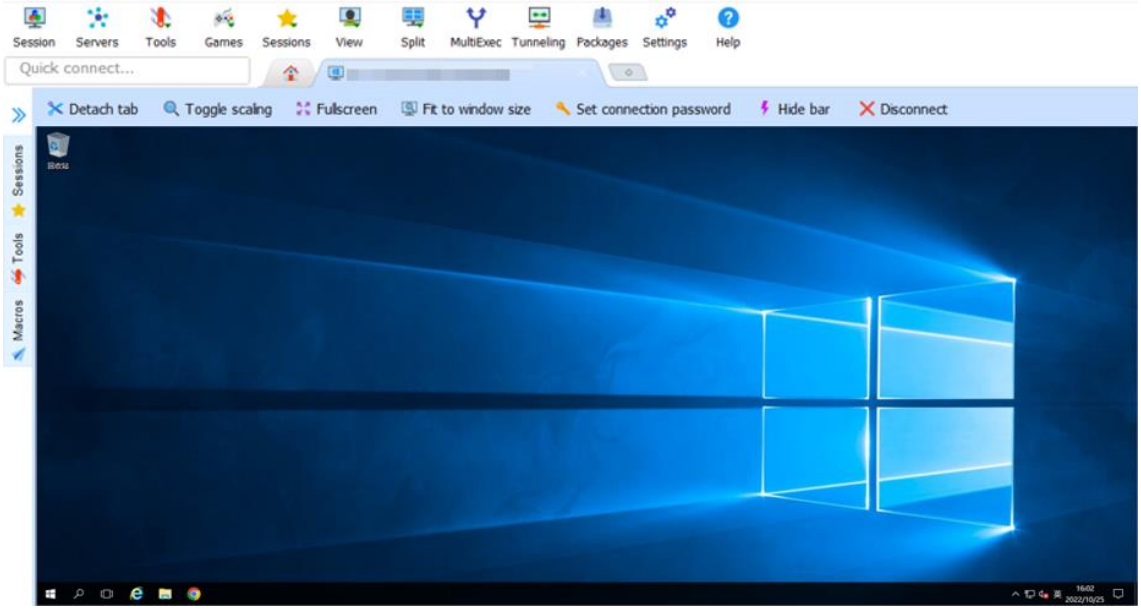
1. 访问系统
   1.1 通过 iLO 启用远程控制台访问系统（Windows Server，Linux，VMware ESXi）
   iLO 5 页面 Information -> Overview 的 Remote Console 选项，或页面左下方 Remote Console 选区可直接启用远程控制台；也可在 Remote Console & Media - iLO Integrated Remote Console 页面进行选择。本文以.NET 远程控制台为例。



1.2 通过第三方 SSH 工具访问系统（Linux，VMware ESXi）



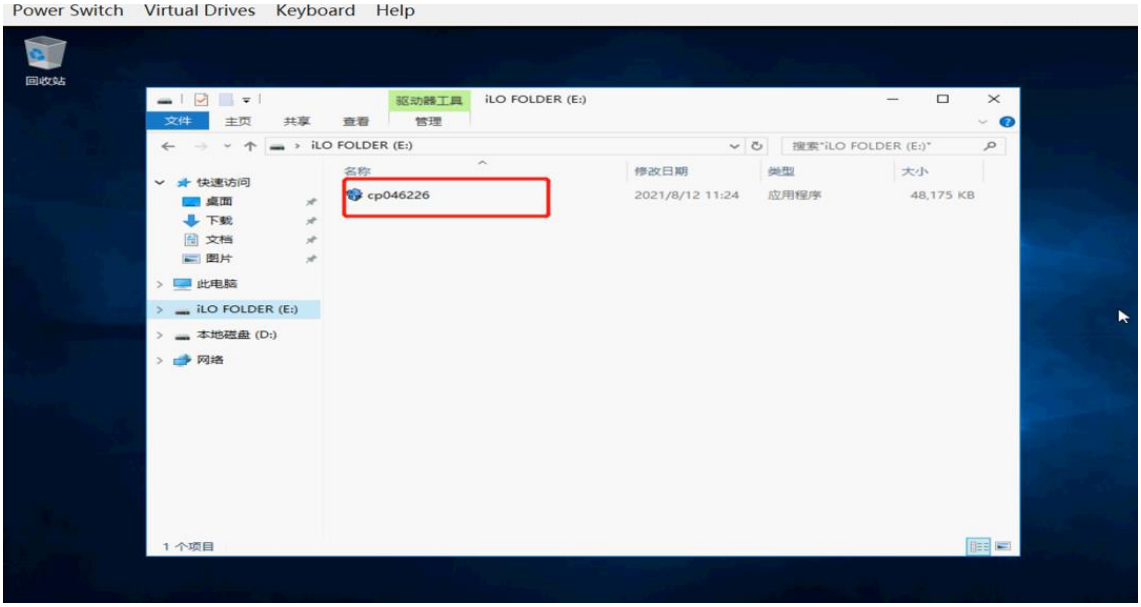
1.3 通过远程桌面或第三方 RDP 工具访问系统（Windows Server）



2. 将 MegaRAID Storage Administrator StorCLI 工具保存到系统下

2.1 Windows Server

2.1.1 通过 iLO 启用远程控制台将工具挂载到系统下



2.1.2 通过 U 盘将文件挂载到系统下

U 盘接入服务器后，在系统下直接访问挂载点。

2.2 Linux

2.2.1 通过 iLO 启用远程控制台将工具挂载到系统下

```
[root@localhost ~]# lsblk
NAME            MAJ:MIN RM   SIZE RO TYPE MOUNTPOINT
sda               8:0    0 837.9G  0 disk
├─sda1            8:1    0   200M  0 part /boot/efi
├─sda2            8:2    0     1G  0 part /boot
└─sda3            8:3    0 836.7G  0 part
  ├─rhel-root   253:0    0    50G  0 lvm  /
  ├─rhel-swap   253:1    0     4G  0 lvm  [SWAP]
  └─rhel-home   253:5    0 782.7G  0 lvm  /home
sdc               8:32   1    16M  1 disk /run/media/root/iLO FOLDER
nvme0n1         259:0    0 372.6G  0 disk
├─nvme0n1p1     259:2    0   200M  0 part
├─nvme0n1p2     259:3    0     1G  0 part
└─nvme0n1p3     259:4    0 371.4G  0 part
  ├─rhel00-swap 253:2    0     4G  0 lvm
  ├─rhel00-home 253:3    0 317.4G  0 lvm
  └─rhel00-root 253:4    0    50G  0 lvm
nvme1n1         259:1    0 372.6G  0 disk
[root@localhost ~]# mount /dev/sdc /mnt
mount: /dev/sdc is write-protected, mounting read-only
[root@localhost ~]# cd /mnt
[root@localhost mnt]# ls
storcli-007.1616.0000.0000-1.x86_64.rpm
```

2.2.2 通过 U 盘将文件挂载到系统下

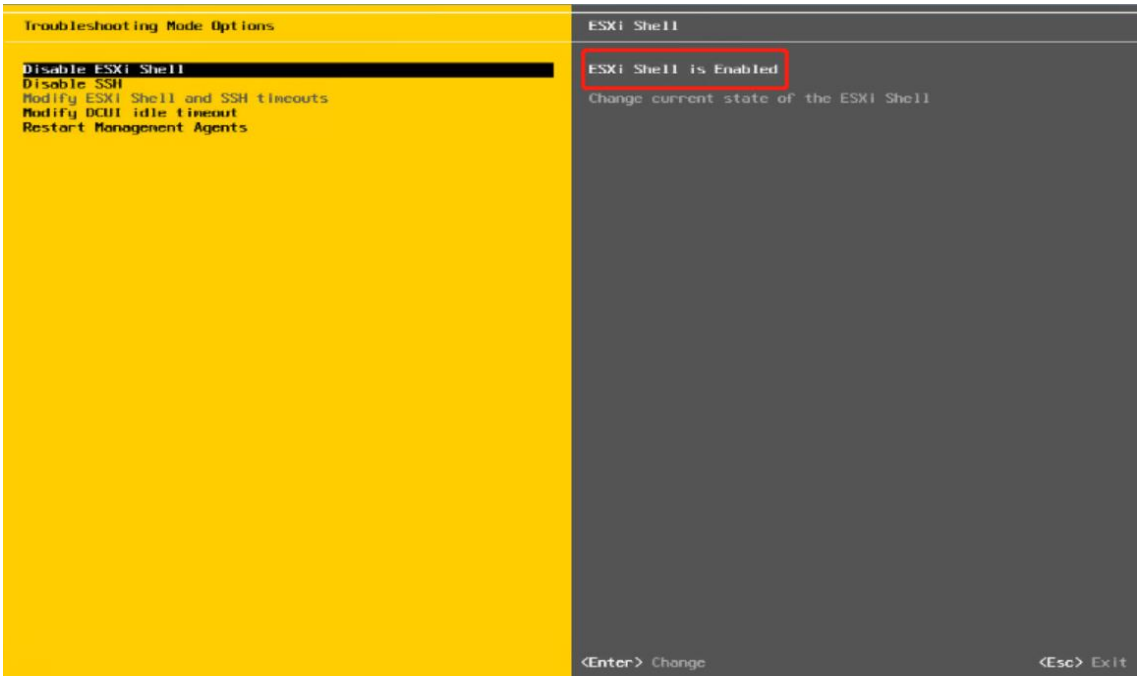
U 盘接入服务器后，在系统下通过 mount 命令挂载。

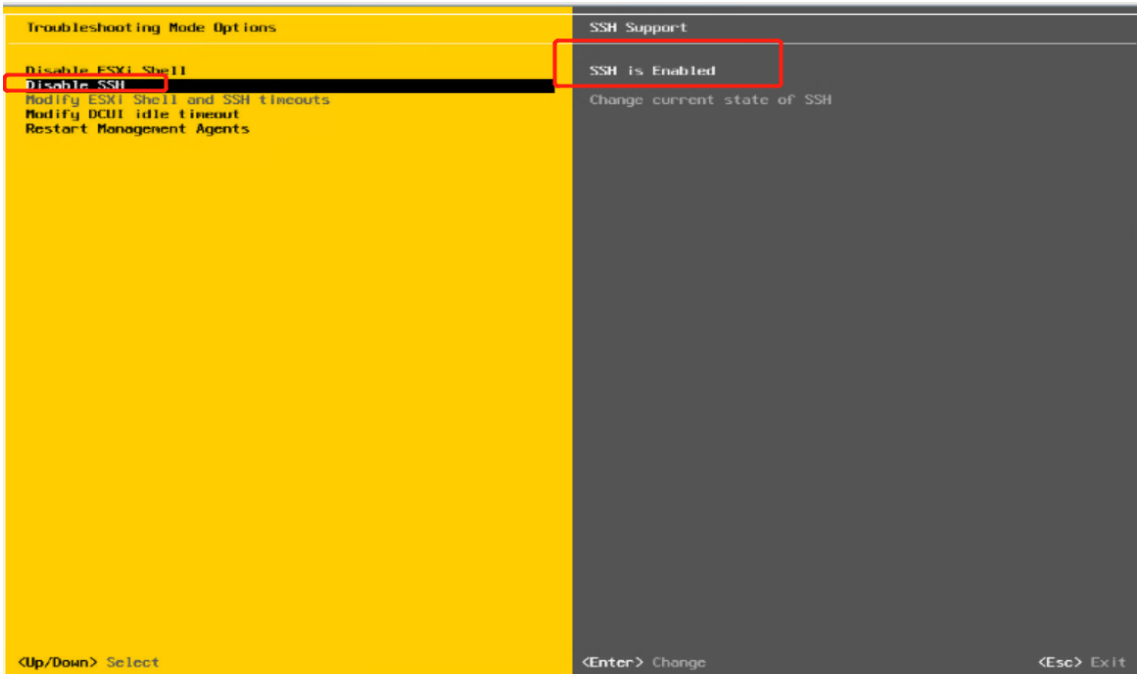
2.2.3 通过第三方 SSH 工具将文件保存到系统下

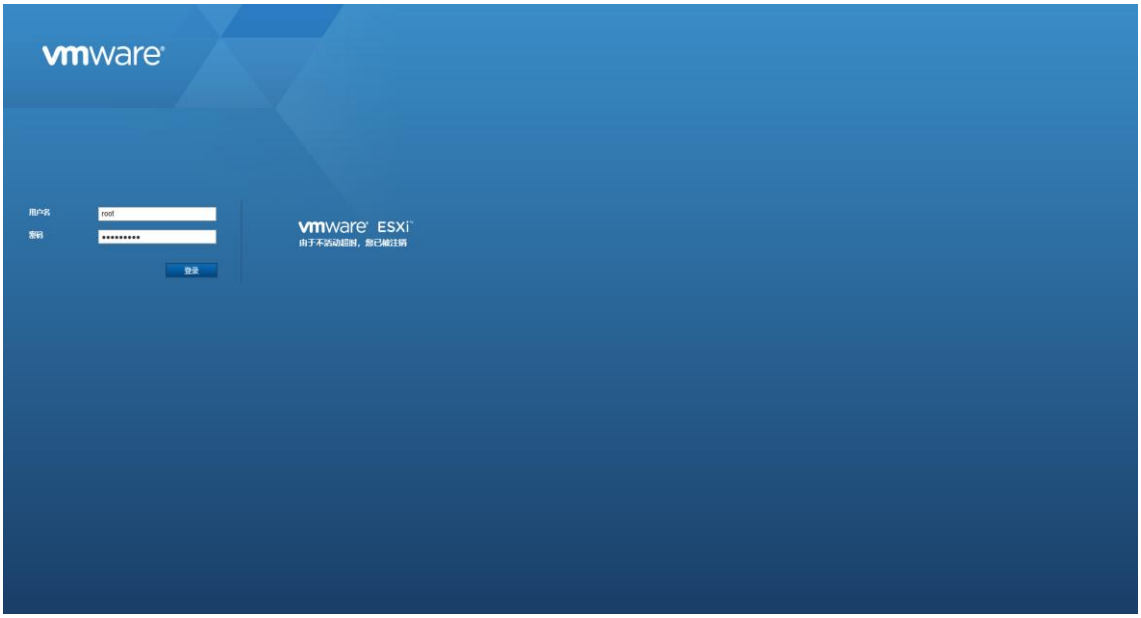
参考第三方工具使用说明。

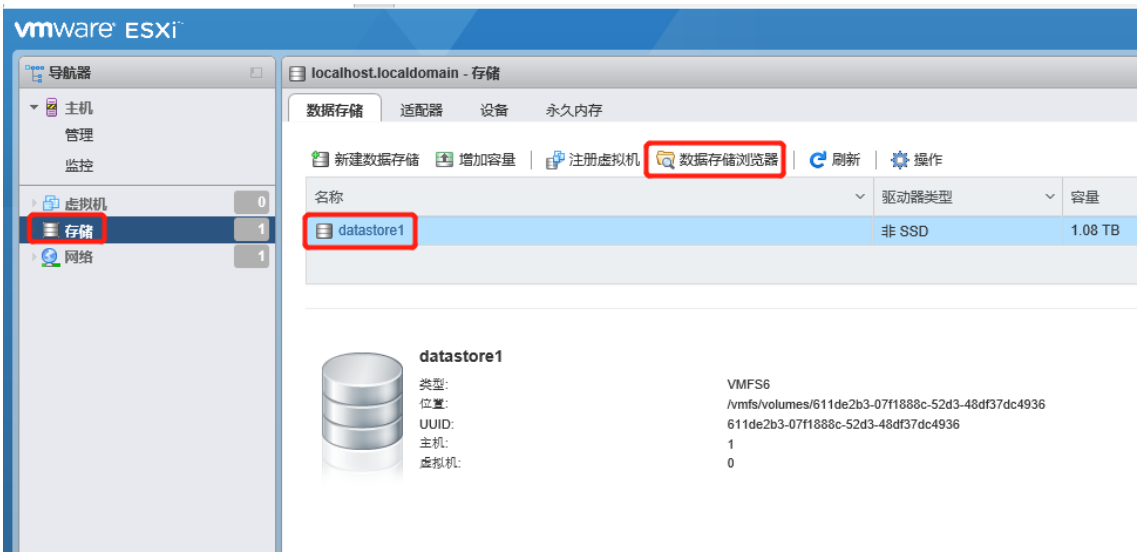
2.3 VMware ESXi

2.3.1 启用 Shell 并通过 Web Client 将文件保存到系统下。


Troubleshooting Mode Options
Disable ESXi Shell
Disable SSH
Modify ESXi Shell and SSH timeouts
Modify DCUI idle timeout
Restart Management Agents
ESXi Shell
ESXi Shell is Enabled
Change current state of the ESXi Shell
<Enter> Change
<Esc> Exit


Troubleshooting Mode Options
Disable ESXi Shell
Disable SSH
Modify ESXi Shell and SSH timeouts
Modify DCUI idle timeout
Restart Management Agents
SSH Support
SSH is Enabled
Change current state of SSH
<Up/Down> Select
<Enter> Change
<Esc> Exit





2.3.2 通过第三方 SSH 工具将文件保存到系统下

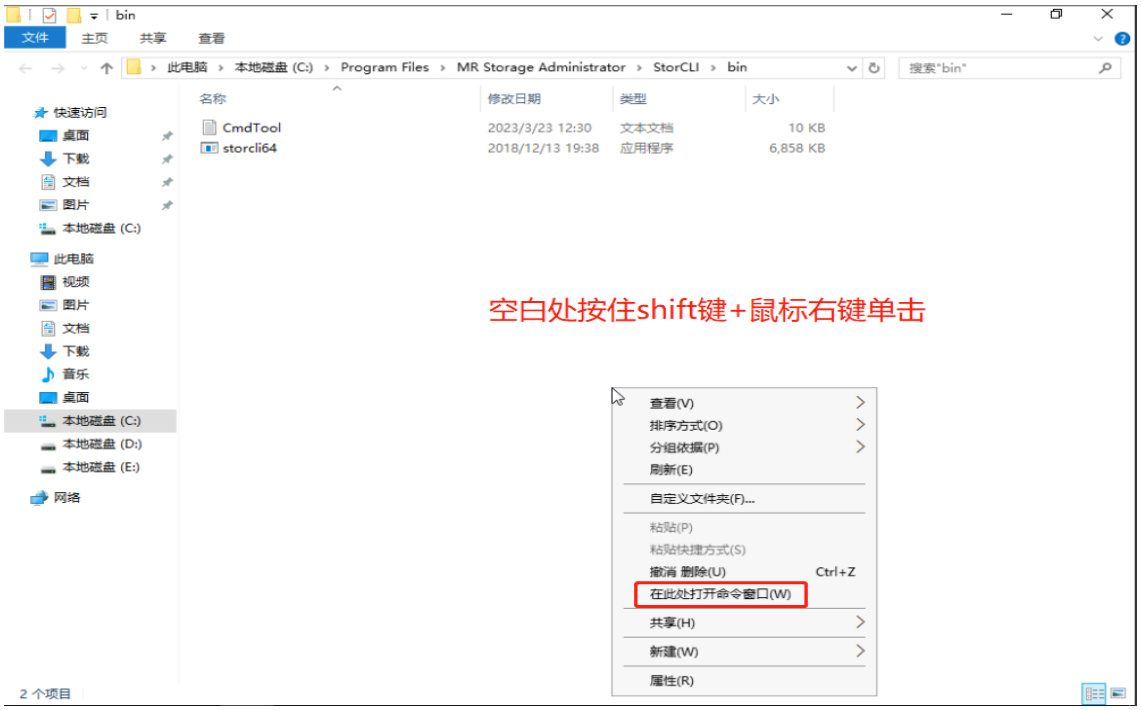
参考第三方工具使用说明。

3. 安装 MegaRAID Storage Administrator StorCLI

3.1 Windows Server

1) 双击开始安装 Storcli 工具。

2) 找到 storcli 工具所在位置，按住 shift 键，然后鼠标右键点击空白处，打开命令窗口。



3.2 Linux

1) **rpm -ivh** 安装 storcli 工具。

```
[root@localhost mnt]# rpm -ivh storcli-007.1616.0000.0000-1.x86_64.rpm
warning: storcli-007.1616.0000.0000-1.x86_64.rpm: Header V3 RSA/SHA256 Signature, key ID 26c2b7
97: NOKEY
Preparing...                          ################################# [100%]
Updating / installing...
   1:storcli-007.1616.0000.0000-1     ################################# [100%]
```

2) 默认安装在/opt/hpe/storcli 路径下。

```
[root@localhost ~]# cd /opt/hpe/storcli/
[root@localhost storcli]# ./storcli64

      StorCli SAS Customization Utility Ver 007.1616.0000.0000 Dec 24, 2020

    (c)Copyright 2020, Broadcom Inc. All Rights Reserved.


help - lists all the commands with their usage. E.g. storcli help
<command> help - gives details about a particular command. E.g. storcli add help

List of commands:

Commands   Description
-----------------------------------------------------------------
add        Adds/creates a new element to controller like VD,Spare..etc
delete     Deletes an element like VD,Spare
show       Displays information about an element
set        Set a particular value to a property
get        Get a particular value to a property
compare    Compares particular value to a property
start      Start background operation
stop       Stop background operation
pause      Pause background operation
resume     Resume background operation
download   Downloads file to given device
expand     expands size of given drive
insert     inserts new drive for missing
transform  downgrades the controller
reset      resets the controller phy
split      splits the logical drive mirror
/cx        Controller specific commands
/ex        Enclosure specific commands
```

3.3 VMware ESXi

1) 通常使用 HPE 定制版 ESXi 系统镜像，系统可能会自带工具，可先使用下方命令查看。

```
[root@localhost:~] esxcli software vib list
```

2) 若没有该工具，先进到之前上传工具包的文件路径下。

```
[root@localhost:~] cd /vmfs/volumes/datastore1
```

3) 使用 **esxcli software vib install -v [软件包所在的绝对路径] [.vib 文件名]**进行安装。

```
[root@localhost:/vmfs/volumes/                                    ] esxcli software vib install -v /vmfs/volumes/data
store1/                                                           .vib
Installation Result
   Message: The update completed successfully, but the system needs to be rebooted for the changes to be effective.
   Reboot Required: true
   VIBs Installed:
   VIBs Removed:
   VIBs Skipped:
```

4. 获取阵列卡编号、逻辑盘编号和物理盘编号

1) **./storcli64 show** 查看阵列卡编号。

```
[root@localhost storcli]#./storcli64  show
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Status Code = 0
Status = Success
Description = None

Number of Controllers = 1
Host Name = localhost.localdomain
Operating System  = Linux 3.10.0-1062.el7.x86_64

System Overview :
===============

--------------------------------------------------------------------------------
Ctl Model                       Ports PDs DGs DNOpt VDs VNOpt BBU sPR DS EHS ASOs Hlth
--------------------------------------------------------------------------------
 0 HPESmartArrayP824i-pMRGen10    24   8   1     0   1     0 Opt On  -  N      4 Opt
--------------------------------------------------------------------------------

Ctl=Adapter Index|DGs=Arrays|VDs=Virtual drives/Logical drives|Fld=Failed
PDs=Physical drives|DNOpt=Array NotOptimal|VNOpt=LD NotOptimal|Opt=Optimal
Msng=Missing|Dgd=Degraded|NdAtn=Need Attention|Chrg=Charging|MsngCbl=Missing Cable
Unkwn=Unknown|sPR=Scheduled Patrol Read|DS=DimmerSwitch|EHS=Emergency Spare Drive
Y=Yes|N=No|ASOs=Advanced Software Options|BBU=Energy Pack
Hlth=Health|Safe=Safe-mode boot
```

2) **./storcli64 /c0/vall show** 查逻辑卷情况，以 c0 阵列卡为例。

```
[root@localhost storcli]# ./storcli64 /c0/vall show
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = None


Virtual Drives :
==============

--------------------------------------------------------------
DG/VD TYPE  State Access Consist Cache Cac sCC         Size Name
--------------------------------------------------------------
0/0   RAID0 Optl  RW     Yes     NRWBD -   ON  837.843 GiB
--------------------------------------------------------------

DG=Arrays|VD=Virtual Drive/Logical Drive|Rec=Recovery
Cac=CacheCade|OfLn=OffLine|Pdgd=Partially Degraded|Dgrd=Degraded
Optl=Optimal|dflt=Default|RO=Read Only|RW=Read Write|HD=Hidden|TRANS=TransportReady
B=Blocked|Consist=Consistent|R=Read Ahead Always|NR=No Read Ahead|WB=WriteBack
AWB=Always WriteBack|WT=WriteThrough|C=Cached IO|D=Direct IO|sCC=Scheduled
Check Consistency
```

3) **./storcli64 /c0/eall/sall show** 查看物理硬盘情况。

```
[root@localhost storcli]# ./storcli64 /c0/eall/sall show
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Show Drive Information Succeeded.


Drive Information :
=================

-----------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model            Sp Type
-----------------------------------------------------------------------------
246:1     3 Onln   0 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:2    12 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:3     2 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:4     4 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:5    10 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:6     5 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:7     9 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:8    11 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
-----------------------------------------------------------------------------

EID=Enclosure Device ID|Slt=Drive Bay No|DID=Device ID|DG=Arrays
DHS=Dedicated Spare Drive|UGood=Unconfigured Good|GHS=Global Spare Drive
UBad=Unconfigured Bad|Sntze=Sanitize|Onln=Online|Offln=Offline|Intf=Interface
Med=Media Type|SED=Self Encryptive Drive|PI=Data Integrity Info
SeSz=Sector Size|Sp=Spun|U=Up|D=Down|T=Transition|F=Foreign
UGUnsp=UGood Unsupported|UGShld=UGood shielded|HSPShld=Spare shielded
CFShld=Configured shielded|Cpybck=CopyBack|CBShld=Copyback Shielded
UBUnsp=UBad Unsupported|Rbld=Rebuild
```

5. 创建与删除阵列

5.1 创建阵列

1）创建 raid0/1/5...级别的阵列

例如将 EID:246 Slt:2 和 Slt:3 创建一个 100GB 的 raid1 逻辑卷。

./storcli /c0 add vd r1 size=100GB drives=246:2-3

```
[root@localhost storcli]# ./storcli64 /c0 add vd r1 size=100GB drives=246:2-3
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Add LD Succeeded.
```

再划分一个 200GB 的 raid1 逻辑卷，若不设置 size，则默认将剩余容量全部用于创建逻辑卷。

```
[root@localhost storcli]# ./storcli64 /c0 add vd r1 size=200GB drives=246:2-3
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Add LD Succeeded.


[root@localhost storcli]# ./storcli64 /c0 add vd r1 drives=246:2-3
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Add LD Succeeded.
```

查看阵列情况，可以看到多了 3 个 raid1 的逻辑卷。

```
[root@localhost storcli]# ./storcli64 /c0/vall show
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = None


Virtual Drives :
==============

---------------------------------------------------------------
DG/VD TYPE  State Access Consist Cache Cac sCC         Size Name
---------------------------------------------------------------
0/0   RAID0 Optl  RW     Yes     NRWBD -   ON  837.843 GiB
1/1   RAID1 Optl  RW     No      NRWBD -   ON  100.000 GiB
1/2   RAID1 Optl  RW     No      NRWBD -   ON  200.000 GiB
1/3   RAID1 Optl  RW     No      NRWBD -   ON  537.843 GiB
---------------------------------------------------------------

DG=Arrays|VD=Virtual Drive/Logical Drive|Rec=Recovery
Cac=CacheCade|OfLn=OffLine|Pdgd=Partially Degraded|Dgrd=Degraded
Optl=Optimal|dflt=Default|RO=Read Only|RW=Read Write|HD=Hidden|TRANS=TransportReady
B=Blocked|Consist=Consistent|R=Read Ahead Always|NR=No Read Ahead|WB=WriteBack
AWB=Always WriteBack|WT=WriteThrough|C=Cached IO|D=Direct IO|sCC=Scheduled
Check Consistency
```

2）创建 raid10/50…复合阵列

例如将 EID:246 Slt:4 和 EID:251 Slt:5 和 Slt:7 创建一个 raid10 逻辑卷。

./storcli64 /c0 add vd r10 drives=246:4,251:5-7 PDperArray=2

参数解释：PDperArray=span 中硬盘的数量

```
[root@localhost storcli]# ./storcli64 /c0 add vd r10 drives=246:4,251:5-7 PDperArray=2
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Add LD Succeeded.


[root@localhost storcli]# ./storcli64 /c0/vall show
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = None


Virtual Drives :
==============

---------------------------------------------------------------
DG/VD TYPE   State Access Consist Cache Cac sCC         Size Name
---------------------------------------------------------------
0/0   RAID0  Optl  RW     Yes     NRWBD -   ON  837.843 GiB
1/1   RAID1  Optl  RW     No      NRWBD -   ON  100.000 GiB
1/2   RAID1  Optl  RW     No      NRWBD -   ON  200.000 GiB
1/3   RAID1  Optl  RW     No      NRWBD -   ON  537.843 GiB
2/4   RAID10 Optl  RW     No      NRWBD -   ON    1.635 TiB
---------------------------------------------------------------
```

```
[root@localhost storcli]# ./storcli64 /c0/eall/sall show
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Show Drive Information Succeeded.


Drive Information :
=================

-----------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model            Sp Type
-----------------------------------------------------------------------------
246:1     3 Onln   0 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:2    12 Onln   1 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:3     2 Onln   1 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:4     4 Onln   2 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:5    10 Onln   2 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:6     5 Onln   2 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:7     9 Onln   2 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:8    11 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
-----------------------------------------------------------------------------
```

5.2 删除阵列

1）./storcli64 /c0/v3 del 删除逻辑卷 3

```
[root@localhost storcli]# ./storcli64 /c0/v3 del
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Delete LD succeeded
```

2）可以看到阵列删除成功

```
[root@localhost storcli]# ./storcli64 /c0/vall show
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = None


Virtual Drives :
==============

-----------------------------------------------------------------
DG/VD TYPE   State Access Consist Cache Cac sCC        Size Name
-----------------------------------------------------------------
0/0   RAID0  Optl  RW     Yes     NRWBD -   ON  837.843 GiB
1/1   RAID1  Optl  RW     No      NRWBD -   ON  100.000 GiB
1/2   RAID1  Optl  RW     No      NRWBD -   ON  200.000 GiB
2/4   RAID10 Optl  RW     No      NRWBD -   ON    1.635 TiB
-----------------------------------------------------------------

DG=Arrays|VD=Virtual Drive/Logical Drive|Rec=Recovery
Cac=CacheCade|OfLn=OffLine|Pdgd=Partially Degraded|Dgrd=Degraded
Optl=Optimal|dflt=Default|RO=Read Only|RW=Read Write|HD=Hidden|TRANS=TransportReady
B=Blocked|Consist=Consistent|R=Read Ahead Always|NR=No Read Ahead|WB=WriteBack
AWB=Always WriteBack|WT=WriteThrough|C=Cached IO|D=Direct IO|sCC=Scheduled
Check Consistency
```

```
[root@localhost storcli]# ./storcli64 /c0/vall show
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = None


Virtual Drives :
==============

-------------------------------------------------------------
DG/VD TYPE  State Access Consist Cache Cac sCC        Size Name
-------------------------------------------------------------
0/0   RAID0 Optl  RW     Yes     NRWBD -   ON  837.843 GiB
-------------------------------------------------------------

DG=Arrays|VD=Virtual Drive/Logical Drive|Rec=Recovery
Cac=CacheCade|OfLn=OffLine|Pdgd=Partially Degraded|Dgrd=Degraded
Optl=Optimal|dflt=Default|RO=Read Only|RW=Read Write|HD=Hidden|TRANS=TransportReady
B=Blocked|Consist=Consistent|R=Read Ahead Always|NR=No Read Ahead|WB=WriteBack
AWB=Always WriteBack|WT=WriteThrough|C=Cached IO|D=Direct IO|sCC=Scheduled
Check Consistency
```

6. 创建与删除热备

6.1 创建热备

6.1.1 创建专用热备

1）例如将第 EID:251 slt:5 硬盘设置为阵列 1 的专属热备盘。

./storcli64 /c0/e251/s5 add hotsparedrive dgs=1

```
[root@localhost storcli]# ./storcli64 /c0/vall show
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = None


Virtual Drives :
==============

-------------------------------------------------------------
DG/VD TYPE  State Access Consist Cache Cac sCC        Size Name
-------------------------------------------------------------
0/0   RAID0 Optl  RW     Yes     NRWBD -   ON  837.843 GiB
1/1   RAID1 Optl  RW     No      NRWBD -   ON  837.843 GiB
-------------------------------------------------------------
```

```
[root@localhost storcli]# ./storcli64 /c0/e251/s5 add hotsparedrive dgs=1
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Add Spare Succeeded.
```

2）创建成功。

```
[root@localhost storcli]# ./storcli64 /c0/eall/sall show
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Show Drive Information Succeeded.


Drive Information :
==================

-----------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model            Sp Type
-----------------------------------------------------------------------------
246:1     3 Onln   0 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:2    12 GHS    - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:3     2 Onln   1 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:4     4 Onln   1 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:5    10 DHS    1 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:6     5 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:7     9 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:8    11 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
-----------------------------------------------------------------------------

EID=Enclosure Device ID|Slt=Drive Bay No|DID=Device ID|DG=Arrays
DHS=Dedicated Spare Drive|UGood=Unconfigured Good|GHS=Global Spare Drive
UBad=Unconfigured Bad|Sntze=Sanitize|Onln=Online|Offln=Offline|Intf=Interface
Med=Media Type|SED=Self Encryptive Drive|PI=Data Integrity Info
SeSz=Sector Size|Sp=Spun|U=Up|D=Down|T=Transition|F=Foreign
UGUnsp=UGood Unsupported|UGShld=UGood shielded|HSPShld=Spare shielded
CFShld=Configured shielded|Cpybck=CopyBack|CBShld=Copyback Shielded
UBUnsp=UBad Unsupported|Rbld=Rebuild
```

6.1.2 创建全局热备

1）例如将 EID:246 Slt:2 硬盘设置为阵列 0 的全局热备盘。

```
[root@localhost storcli]# ./storcli64 /c0/e246/s2 add hotsparedrive
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Add Spare Succeeded.
```

2）创建成功。

```
[root@localhost storcli]# ./storcli64 /c0/eall/sall show
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Show Drive Information Succeeded.


Drive Information :
==================

-----------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model            Sp Type
-----------------------------------------------------------------------------
246:1     3 Onln   0 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:2    12 GHS    - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:3     2 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:4     4 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:5    10 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:6     5 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:7     9 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:8    11 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
-----------------------------------------------------------------------------

EID=Enclosure Device ID|Slt=Drive Bay No|DID=Device ID|DG=Arrays
DHS=Dedicated Spare Drive|UGood=Unconfigured Good|GHS=Global Spare Drive
UBad=Unconfigured Bad|Sntze=Sanitize|Onln=Online|Offln=Offline|Intf=Interface
Med=Media Type|SED=Self Encryptive Drive|PI=Data Integrity Info
SeSz=Sector Size|Sp=Spun|U=Up|D=Down|T=Transition|F=Foreign
UGUnsp=UGood Unsupported|UGShld=UGood shielded|HSPShld=Spare shielded
CFShld=Configured shielded|Cpybck=CopyBack|CBShld=Copyback Shielded
```

6.2 删除热备

1）删除 EID:251 Slt:5 热备盘。

```
[root@localhost storcli]# ./storcli64 /c0/e251/s5 delete hotsparedrive
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Delete Spare Succeeded.


[root@localhost storcli]# ./storcli64 /c0/e246/s2 delete hotsparedrive
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Delete Spare Succeeded.
```

2）删除成功。

```
[root@localhost storcli]# ./storcli64 /c0/eall/sall show
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Show Drive Information Succeeded.


Drive Information :
==================

-------------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model            Sp Type
-------------------------------------------------------------------------------
246:1     3 Onln    0 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:2    12 UGood   - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:3     2 Onln    1 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:4     4 Onln    1 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:5    10 UGood   - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:6     5 UGood   - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:7     9 UGood   - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:8    11 UGood   - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
-------------------------------------------------------------------------------
```

7. 设置与取消直通盘

1）将 EID:246 Slt:2 硬盘设置为 JBOD。

./storcli64 /c0/e246/s2 set JBOD

```
[root@localhost storcli]# ./storcli64 /c0/e246/s2 set JBOD
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Set Drive JBOD Succeeded.
```

```
[root@localhost storcli]# ./storcli64 /c0/eall/sall show
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Show Drive Information Succeeded.


Drive Information :
=================

-----------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model            Sp Type
-----------------------------------------------------------------------------
246:1     3 Onln   0 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:2    12 JBOD   - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:3     2 Onln   1 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
246:4     4 Onln   1 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:5    10 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:6     5 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:7     9 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
251:8    11 UGood  - 900.00 GB SAS  HDD N   N  512B EH000900JWCPN    U  -
-----------------------------------------------------------------------------
```

2）设置成 UGood。

```
[root@localhost storcli]# ./storcli64 /c0/e246/s2 set good force
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 3.10.0-1062.el7.x86_64
Controller = 0
Status = Success
Description = Set Drive Good Succeeded.
```