HPE Gen10 Plus 服务器 MR416/MR216 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

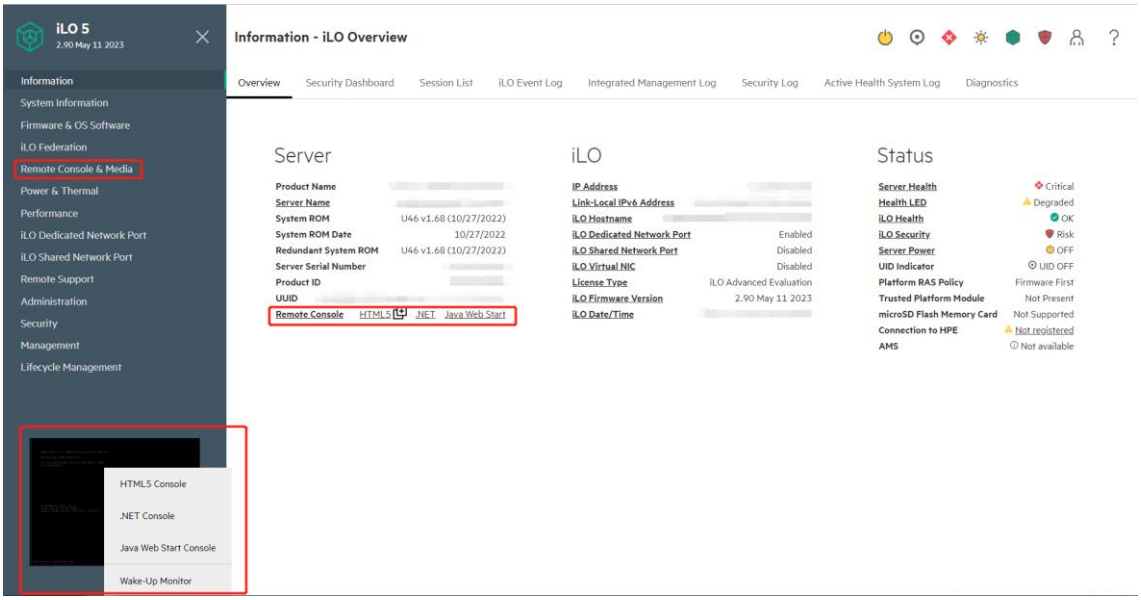
- 本文档旨在说明 HPE Gen10 Plus 系列服务器 MR416/MR216 系列阵列卡不同系统下使用 MegaRAID Storage Administrator StorCLI 工具配置阵列的方法，并以 DL380 Gen10 Plus 服务器为例进行配置步骤说明。
- 实际情况是否适用本文档，请通过下面导航链接进行确认：
  https://zhiliao.h3c.com/Theme/details/218271
- 提示：
  本文档中的信息（包括产品，软件版本和设置参数）仅作参考示例，具体操作与目标需求设置请以实际为准。
  本文档不定期更新维护，请以发布的最新版本为准。

二. 配置准备

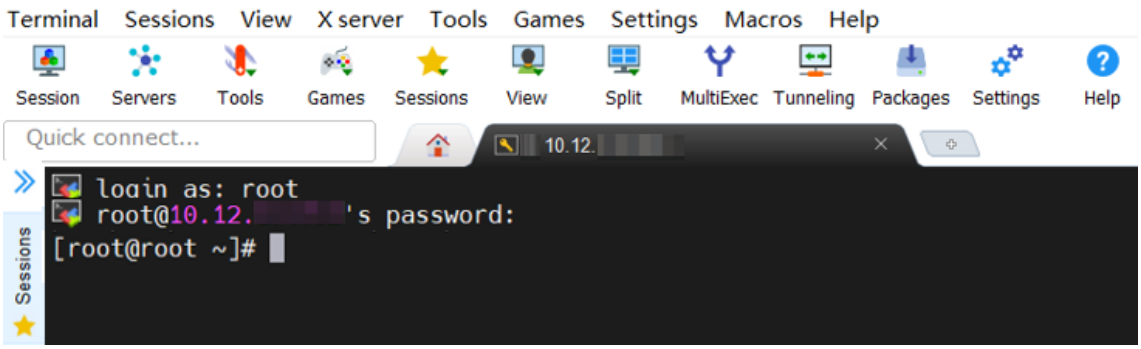
1. 下载 MegaRAID Storage Administrator StorCLI 工具
   - Windows 下载链接：HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit | HPE Support
   - Linux 下载链接：HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10 and Gen10 Plus Controllers) | HPE Support
   - VMware 下载链接：
     - ESXi 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

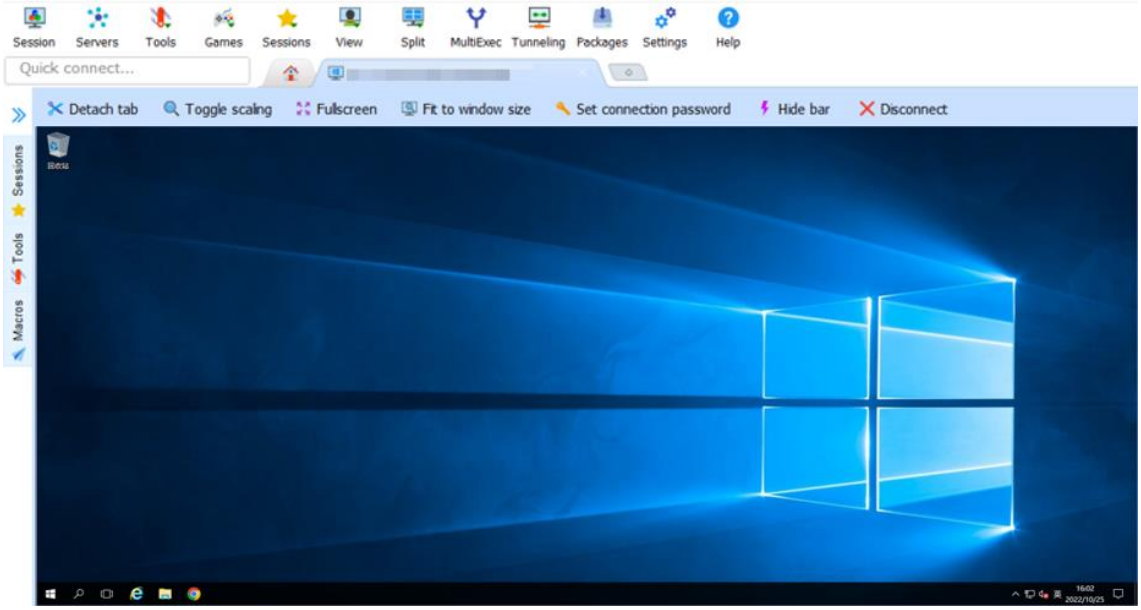
1. 访问系统
   1.1 通过 iLO 启用远程控制台访问系统（Windows Server，Linux，VMware ESXi）
   iLO 5 页面 Information -> Overview 的 Remote Console 选项，或页面左下方 Remote Console 选区可直接启用远程控制台；也可在 Remote Console & Media - iLO Integrated Remote Console 页面进行选择。本文以.NET 远程控制台为例。



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



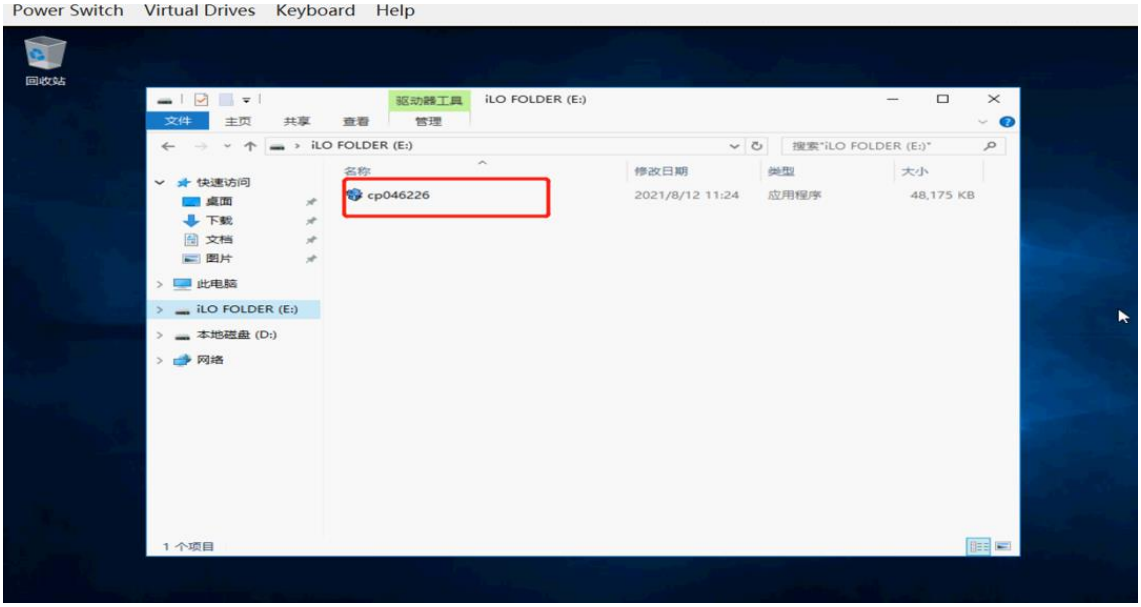
1.3 通过远程桌面或第三方 RDP 工具访问系统（Windows Server）



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

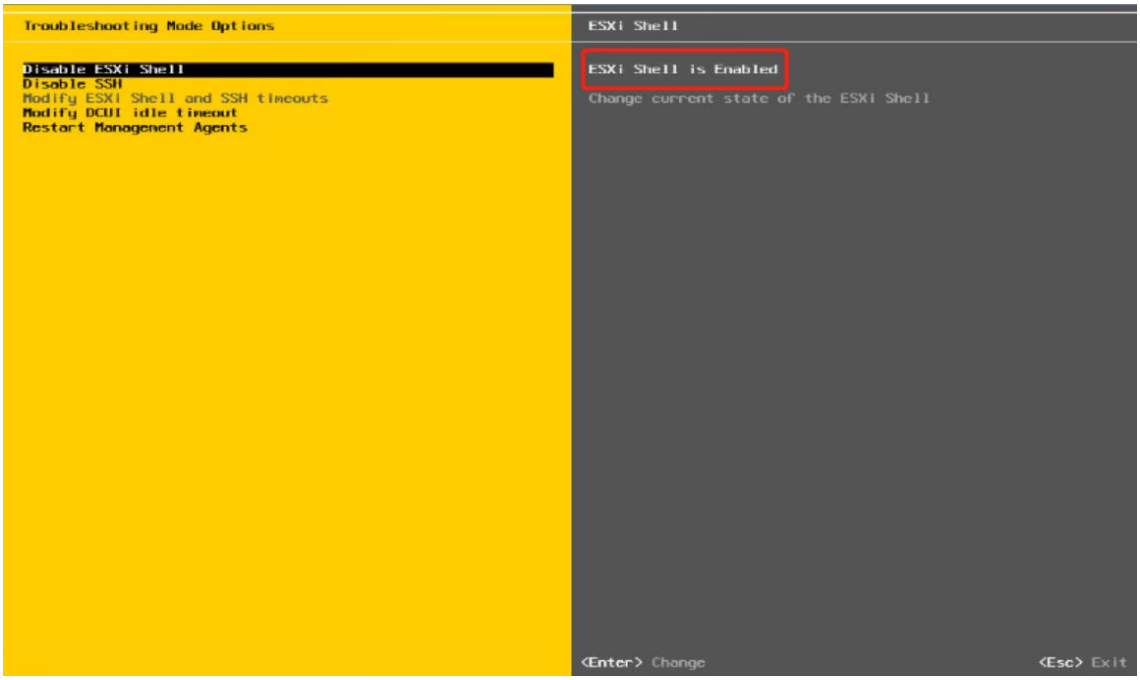
U 盘接入服务器后，在系统下通过 mount 命令挂载。

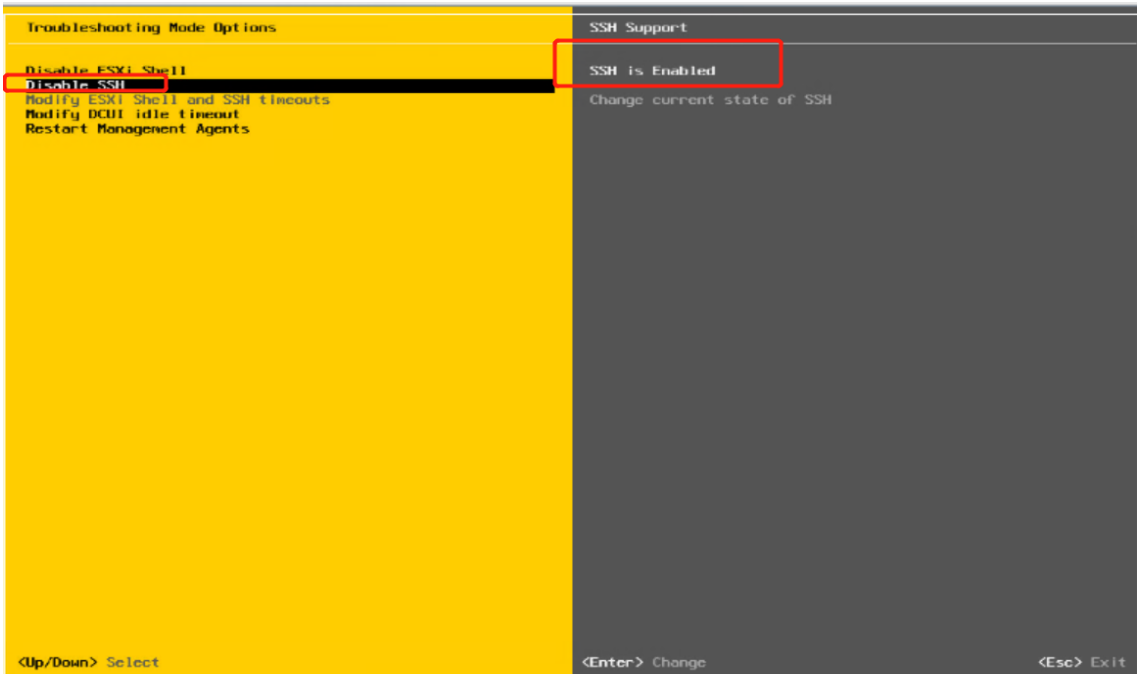
2.2.3 通过第三方 SSH 工具将文件保存到系统下

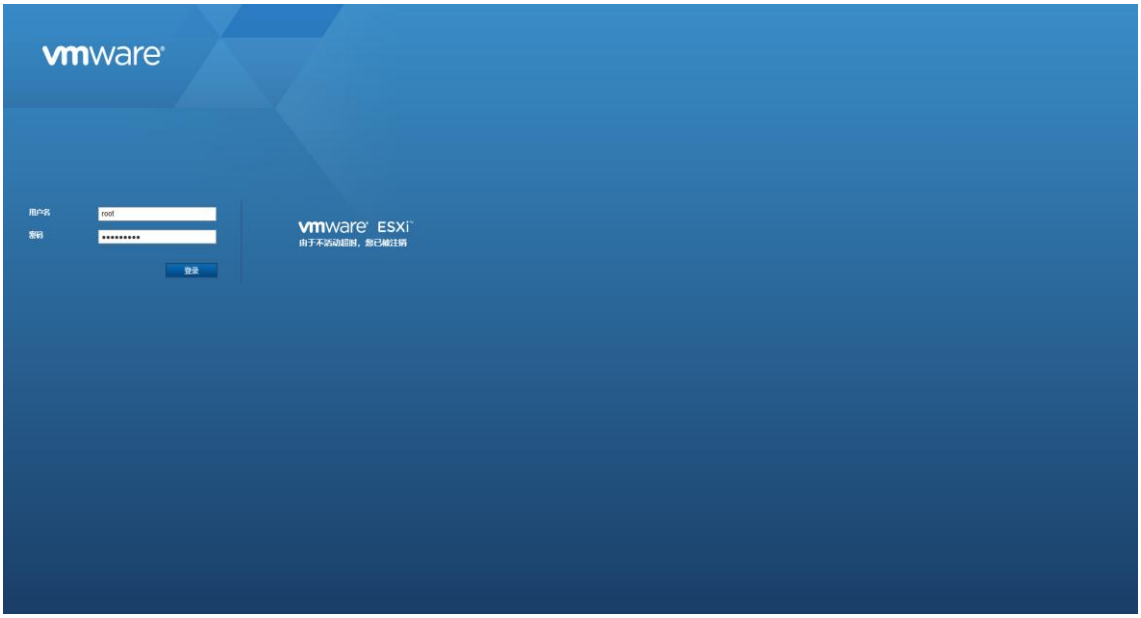
参考第三方工具使用说明。

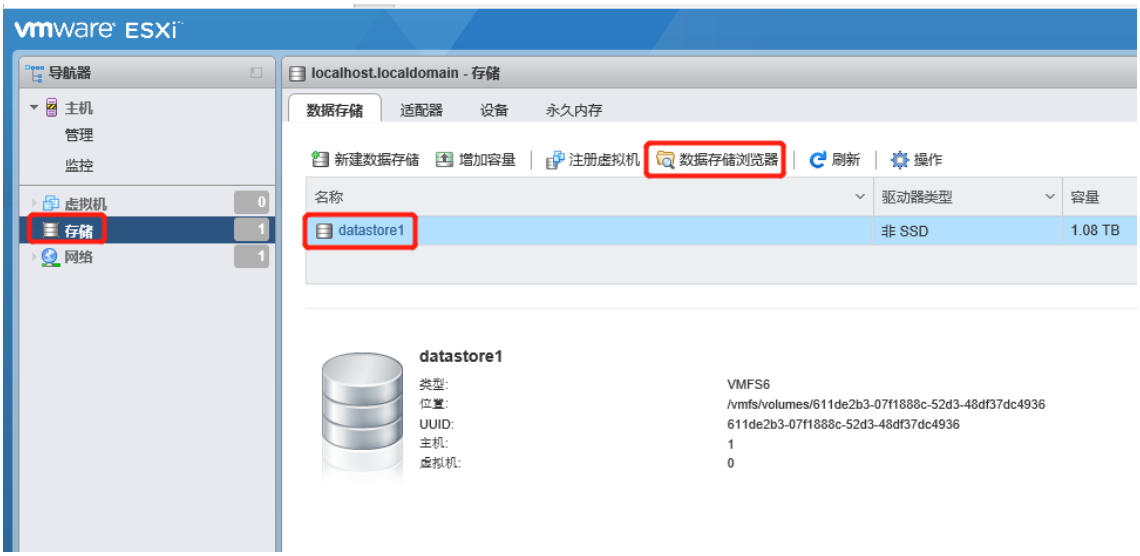
2.3 VMware ESXi

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





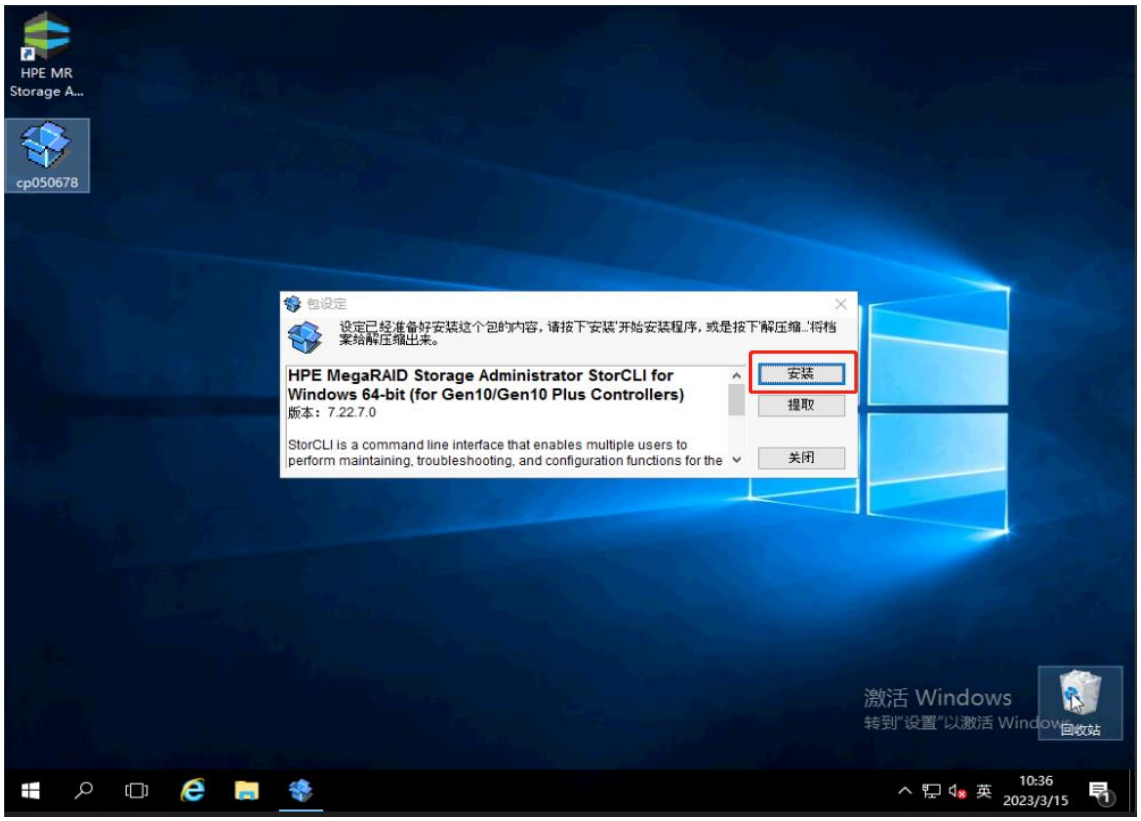
2.3.2 通过第三方 SSH 工具将文件保存到系统下

参考第三方工具使用说明。

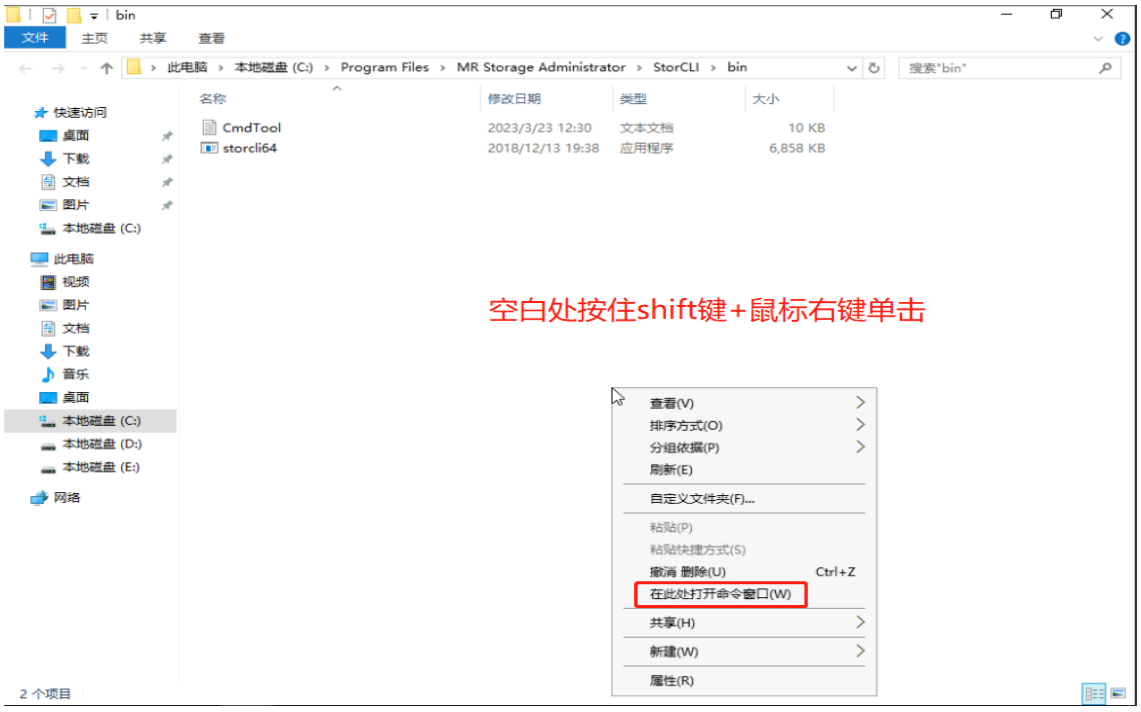
3. 安装 MegaRAID Storage Administrator StorCLI

3.1 Windows Server

1) 双击运行开始安装 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) .\strocli64.exe，即可运行 storcli 工具。

```
C:\Program Files\MR Storage Administrator\StorCLI\bin>.\storcli64.exe  show all
Status Code = 0
Status = Success
Description = None

Number of Controllers = 1
Host Name = WIN-QLDN627IMOU
Operating System  = Windows Server 2012

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

-----------------------------------------------------------------------
Ctl Model            Ports PDs DGs DNOpt VDs VNOpt BBU sPR DS EHS ASOs Hlth
-----------------------------------------------------------------------
  0 HPEMR416i-pGen10+    16   6   4     0   4     0 Opt On  -  N      4 Opt
-----------------------------------------------------------------------

Ctl=Controller Index|DGs=Arrays|VDs=Virtual drives/Logical drives|Fld=Failed
PDs=Physical drives|DNOpt=DG NotOptimal|VNOpt=VD 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=Battery backup unit
Hlth=Health|Safe=Safe-mode boot
```

3.2 Linux

1) **rpm -ivh** 安装 storcli 工具。

```
[root@localhost Storcli]# ls
storcli-007.1616.0000.0000-1.x86_64.rpm
[root@localhost Storcli]# 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 26
c2b797: NOKEY
Verifying...                          ################################# [100%]
Preparing...                          ################################# [100%]
Updating / installing...
   1:storcli-007.1616.0000.0000-1     ################################# [100%]
```

进到默认安装路径下，./storcli64 命令运行。

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

      StorCli SAS Customization Utility Ver 007.1616.0000.0000 Dec 24, 2020

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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
```

3.3 VMware ESXi

1) 进入文件所在位置，使用 **unzip + xxx.zip** 解压，得到.vib 文件。

```
[root@localhost:/tmp/storcli] ls
BCM-vmware-storcli64_007.1616.0000.0000-01_17650073.zip
[root@localhost:/tmp/storcli] unzip BCM-vmware-storcli64_007.1616.0000.0000-01_17650073.zip
Archive:  BCM-vmware-storcli64_007.1616.0000.0000-01_17650073.zip
  inflating: index.xml
  inflating: vendor-index.xml
  inflating: metadata.zip
  inflating: vib20/vmware-storcli64/BCM_bootbank_vmware-storcli64_007.1616.0000.0000-01.vib
```

2) 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:/tmp/storcli] esxcli software vib install -v /tmp/storcli/vib20/vmware-storcli64/BCM_bootbank_vmware-storcli64_007.1616.0000.0000-01.v
ib --no-sig-check
Installation Result
   Message: Operation finished successfully.
   Reboot Required: false
   VIBs Installed: BCM_bootbank_vmware-storcli64_007.1616.0000.0000-01
   VIBs Removed:
   VIBs Skipped:
```

3) 工具默认安装在/opt/hpe/storcli64 目录下，使用 cd /opt/hpe/storcli64/进入此目录。

```
[root@localhost:/opt/hpe/storcli64] cd /opt/hpe/storcli64/
[root@localhost:/opt/hpe/storcli64] ls
libstorelib.so  storcli.log     storcli64
```

4. 获取阵列卡编号、逻辑盘编号和物理盘编号（命令通用）

1) **./storcli64 show all** 查看当前阵列卡型号及编号：MR416 i-p 阵列卡 编号：C0。

```
[root@localhost storcli]# ./storcli64  show  all
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 4.18.0-240.el8.x86_64
Status Code = 0
Status = Success
Description = None

Number of Controllers = 1
Host Name = localhost.localdomain
Operating System  = Linux 4.18.0-240.el8.x86_64

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

--------------------------------------------------------------------------------
Ctl Model             Ports PDs DGs DNOpt VDs VNOpt BBU sPR DS EHS ASOs Hlth
--------------------------------------------------------------------------------
  0 HPEMR416i-pGen10+    16   4   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 show all** 显示控制器列表和控制器相关信息。

```
[root@localhost storcli]# ./storcli64 /c0 show all
Generating detailed summary of the adapter, it may take a while to complete.

CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 4.18.0-240.el8.x86_64
Controller = 0
Status = Success
Description = None
```

3) **./storcli64 /c0/vall show** 查看逻辑盘信息：一个逻辑卷，级别为 raid 5。

```
Virtual Drives = 1

VD LIST :
=======

-------------------------------------------------------------
DG/VD TYPE  State Access Consist Cache Cac sCC      Size Name
-------------------------------------------------------------
0/239 RAID5 Optl  RW     Yes     NRWTD -   ON  1.745 TiB LDName_00
-------------------------------------------------------------

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
```

4）**./storcli64 /c0/eall/sall show** 查看物理盘信息：共 4 块物理盘，252：2 为 JBOD 模式。

```
Physical Drives = 4

PD LIST :
=======

-----------------------------------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model                                  Sp Type
-----------------------------------------------------------------------------------------------------
252:1     1 Onln   0 960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                     U  -
252:2     0 Onln   - 960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                     U  JBOD
252:3     2 Onln   0 960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                     U  -
252:4     3 Onln   0 960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                     U  -
-----------------------------------------------------------------------------------------------------
```

5. 创建与删除阵列

5.1 创建阵列

1）**./storcli64 /c0 show all** 确认目标物理硬盘的 EID：Slt 信息。

```
Physical Drives = 4

PD LIST :
=======

-----------------------------------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model                                  Sp Type
-----------------------------------------------------------------------------------------------------
252:1     1 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                     U  -
252:2     0 Onln  -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                     U  JBOD
252:3     2 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                     U  -
252:4     3 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                     U  -
-----------------------------------------------------------------------------------------------------
```

2）**./storcli64 /c0 add vd type=raid1 size=all name=A1 drives=252:3,252:4** 创建阵列。

注：add vd 添加逻辑卷，type=raid1 阵列级别为 raid1，size=all 使用全部空间创建 name=A1 阵列名称为 A1，drives= 252:3,252:4 使用 EID：Slt 信息为 252:3,252:4 的硬盘创建阵列。

```
[root@localhost storcli]# ./storcli64 /c0 add vd type=raid1 size=all name=A1 drives=252:3,252:4
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 4.18.0-240.el8.x86_64
Controller = 0
Status = Success
Description = Add LD Succeeded.
```

3）**./storcli64 /c0 show all** 查看逻辑卷信息，阵列 A1 创建成功。

```
Virtual Drives = 1

VD LIST :
=======

--------------------------------------------------------------
DG/VD TYPE  State Access Consist Cache Cac sCC        Size Name
--------------------------------------------------------------
0/239 RAID1 Optl  RW     No      NRWBD -   ON  893.750 GiB A1
--------------------------------------------------------------
```

4）查看物理盘信息，阵列中的硬盘状态变为 online 状态。

```
Physical Drives = 4

PD LIST :
=======

-----------------------------------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model                                  Sp Type
-----------------------------------------------------------------------------------------------------
252:1     1 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  -
252:2     0 Onln  -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  JBOD
252:3     2 Onln  0  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  -
252:4     3 Onln  0  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  -
-----------------------------------------------------------------------------------------------------
```

5.2 删除阵列

1）**./storcli64 /c0 show all** 确认目标逻辑卷的 VD 值，如下图所示为 239。

```
Virtual Drives = 1

VD LIST :
=======

--------------------------------------------------------------
DG/VD TYPE  State Access Consist Cache Cac sCC      Size Name
--------------------------------------------------------------
0/239 RAID5 Optl  RW     Yes     NRWTD -   ON  1.745 TiB LDName_00
--------------------------------------------------------------
```

2）**./storcli64 /c0/v239 delete** 删除阵列卡 c0 下的逻辑卷 v239。

```
[root@localhost storcli]# ./storcli64 /c0/v239 delete
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 4.18.0-240.el8.x86_64
Controller = 0
Status = Success
Description = Delete LD succeeded
```

6. 创建与删除热备

6.1 创建热备

6.1.1 创建专用热备

1）**./storcli64 /c0 show all** 确认目标逻辑盘的 DG 信息为 0。

```
Virtual Drives = 1

VD LIST :
=======

--------------------------------------------------------------
DG/VD TYPE  State Access Consist Cache Cac sCC        Size Name
--------------------------------------------------------------
0/239 RAID1 Optl  RW     No      NRWBD -   ON  893.750 GiB A1
--------------------------------------------------------------
```

2）**./storcli64 /c0/e252/s1 add hotsparedrive dgs=0** 为 DG 信息为 0 的阵列配置专属热备为 EID:Slt 信息为 252 : 1 的硬盘。

```
[root@localhost storcli]# ./storcli64 /c0/e252/s1 add  hotsparedrive dgs=0
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 4.18.0-240.el8.x86_64
Controller = 0
Status = Success
Description = Add Spare Succeeded.
```

3）**./storcli64 /c0 show all** 可看到目标硬盘的状态变为 DHS：专属热备盘。

```
Physical Drives = 4

PD LIST :
=======

-----------------------------------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model                                  Sp Type
-----------------------------------------------------------------------------------------------------
252:1     1 DHS   0  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  -
252:2     0 Onln  -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  JBOD
252:3     2 Onln  0  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  -
252:4     3 Onln  0  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  -
-----------------------------------------------------------------------------------------------------
```

6.1.2 创建全局热备

1）**./storcli64 /c0 show all** 确认目标物理硬盘的 EID : Slt 信息。

```
Physical Drives = 4

PD LIST :
=======

-----------------------------------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model                                  Sp Type
-----------------------------------------------------------------------------------------------------
252:1     1 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  -
252:2     0 Onln  -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  JBOD
252:3     2 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  -
252:4     3 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  -
-----------------------------------------------------------------------------------------------------
```

2）**./storcli64 /c0/e252/s1 add hotsparedrive** 将 EID : Slt 信息为 252 : 1 的硬盘设置为热备盘。

```
[root@localhost storcli]# ./storcli64 /c0/e252/s1 add hotsparedrive
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 4.18.0-240.el8.x86_64
Controller = 0
Status = Success
Description = Add Spare Succeeded.
```

3）**./storcli64 /c0 show all** 可看到物理盘状态变为 GHS（全局热备）。

```
Physical Drives = 4

PD LIST :
=======

-----------------------------------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model                                  Sp Type
-----------------------------------------------------------------------------------------------------
252:1     1 GHS   -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  -
252:2     0 Onln  -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  JBOD
252:3     2 Onln  0  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  -
252:4     3 Onln  0  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                    U  -
-----------------------------------------------------------------------------------------------------
```

6.2 删除热备

1）**./storcli64 /c0/e252/s1 delete hotsparedrive** 删除 EID : Slt 信息为 252 : 1 硬盘。

```
[root@localhost storcli]# ./storcli64 /c0/e252/s1 delete hotsparedrive
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 4.18.0-240.el8.x86_64
Controller = 0
Status = Success
Description = Delete Spare Succeeded.
```

1）**./storcli64 /c0 show all** 查看物理盘状态变为 UGood：未配置的正常硬盘。

```
Physical Drives = 4

PD LIST :
=======

-------------------------------------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model                                 Sp Type
-------------------------------------------------------------------------------------------------------
252:1     1 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                   U  -
252:2     0 Onln  -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                   U  JBOD
252:3     2 Onln  0  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                   U  -
252:4     3 Onln  0  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                   U  -
-------------------------------------------------------------------------------------------------------
```

7. 设置与取消直通盘

1）**./storcli64 /c0 show all** 确认目标硬盘 EID : Slt 信息，状态。

```
Physical Drives = 4

PD LIST :
=======

-------------------------------------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model                                 Sp Type
-------------------------------------------------------------------------------------------------------
252:1     1 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                   U  -
252:2     0 Onln  -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                   U  JBOD
252:3     2 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                   U  -
252:4     3 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                   U  -
-------------------------------------------------------------------------------------------------------
```

2）./storcli64 /c0/e252/s1 set JBOD　将 EID : Slt 信息为 252 : 1 的硬盘设置为 JBOD 模式。

```
[root@localhost storcli]# ./storcli64 /c0/e252/s1 set JBOD
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 4.18.0-240.el8.x86_64
Controller = 0
Status = Success
Description = Set Drive JBOD Succeeded.
```

3）**./storcli64 /c0 show all** 目标硬盘状态已成功设置为 JBOD 模式。

```
PD LIST :
=======

-------------------------------------------------------------------------------------------------------
EID:Slt DID State DG      Size Intf Med SED PI SeSz Model                                 Sp Type
-------------------------------------------------------------------------------------------------------
252:1     1 Onln  -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                   U  JBOD
252:2     0 Onln  -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                   U  JBOD
252:3     2 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                   U  -
252:4     3 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                   U  -
-------------------------------------------------------------------------------------------------------
```

4）**./storcli64 /c0/e252/s1 set good** 取消 JBOD，将硬盘恢复为 UGood 状态。

```
[root@localhost storcli]# ./storcli64 /c0/e252/s1 set good
CLI Version = 007.1616.0000.0000 Dec 24, 2020
Operating system = Linux 4.18.0-240.el8.x86_64
Controller = 0
Status = Success
Description = Set Drive Good Succeeded.
```

5）**./storcli64 /c0 show all** 目标硬盘状态已恢复 UGood 模式。

```
Physical Drives = 4

PD LIST :
=======

-----------------------------------------------------------------------------------------------
EID:Slt DID State DG     Size Intf Med SED PI SeSz Model                                Sp Type
-----------------------------------------------------------------------------------------------
252:1     1 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                U  -
252:2     0 Onln  -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                U  JBOD
252:3     2 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                U  -
252:4     3 UGood -  960.00 GB NVMe SSD N   N  512B MZXLR960HBHQ-000H3                U  -
-----------------------------------------------------------------------------------------------
```