

HPE Gen12 服务器 MR 系列阵列卡

Windows/Linux/VMware 系统下 StorCLI 配置阵列

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一. 适用范围与注意事项

- 本文档旨在说明 HPE Gen12 系列服务器 MR 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 DL360 Gen12 服务器为例进行配置步骤说明。
MR 系列阵列卡包含如下型号:
 - HPE MR416i-p Gen12
 - HPE MR416i-o Gen12
 - HPE MR216i-p Gen12
 - HPE MR216i-o Gen12
 - HPE MR408i-o Gen12
 - HPE MR408i-p Gen12
- 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。

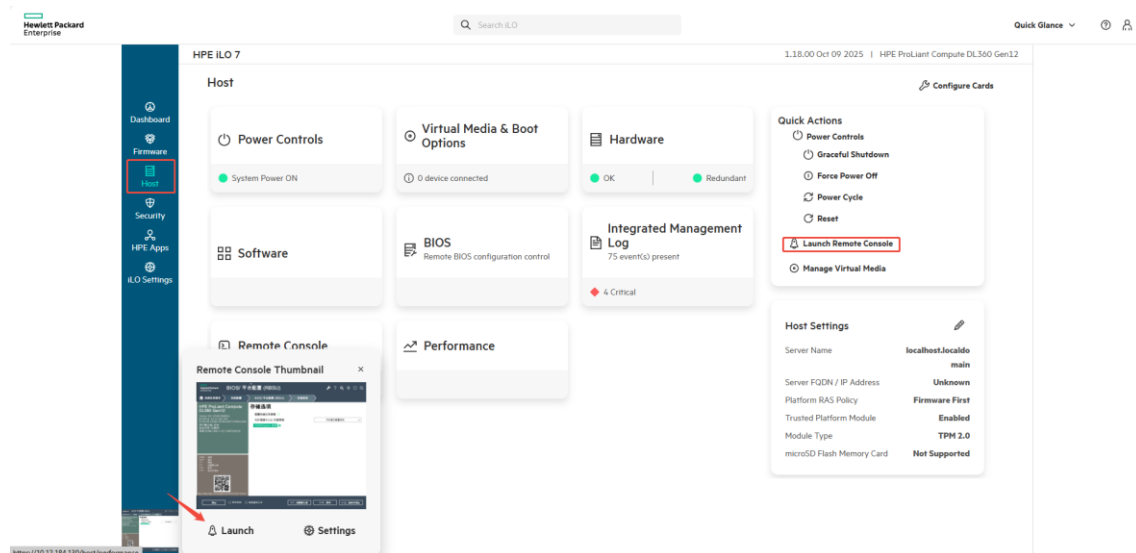
二. 配置准备

1. 下载 MegaRAID Storage Administrator StorCLI 工具
 - Windows 下载链接: [HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit \(for Gen10P and Gen11 Controllers\) | HPE Support Center](#)
 - Linux 下载链接: [HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit \(for Gen10P and Gen11 Controllers\) | HPE Support](#)
 - VMware 下载链接:
 - ESXi 8.0: [HPE MegaRAID Storage Administrator StorCLI for VMware8.0 \(For Gen10P and Gen11 Controllers\) | HPE Support](#)
 - ESXi 9.0: [HPE MegaRAID Storage Administrator StorCLI for VMware9.0 \(For Gen10P and Gen11 Controllers\) | 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/233627>

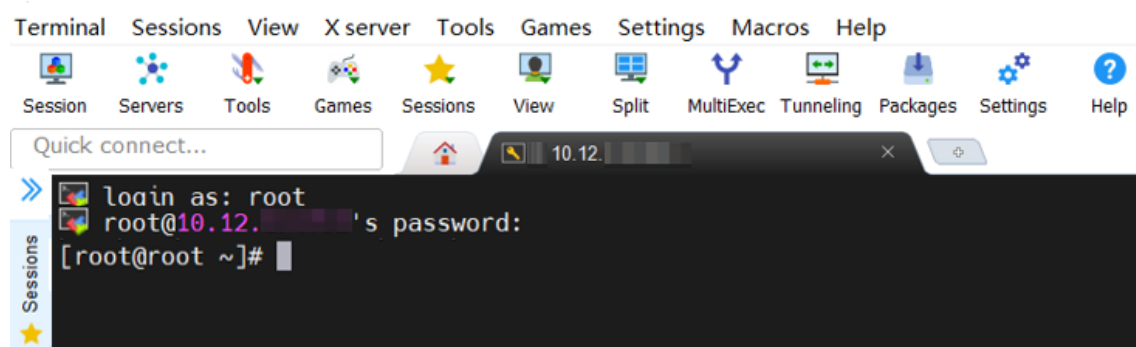
三. 配置步骤

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)
通过 iLO7 页面 **Dashboard - Virtual Media & Remote Console** 选项, 或 **Host - Remote**

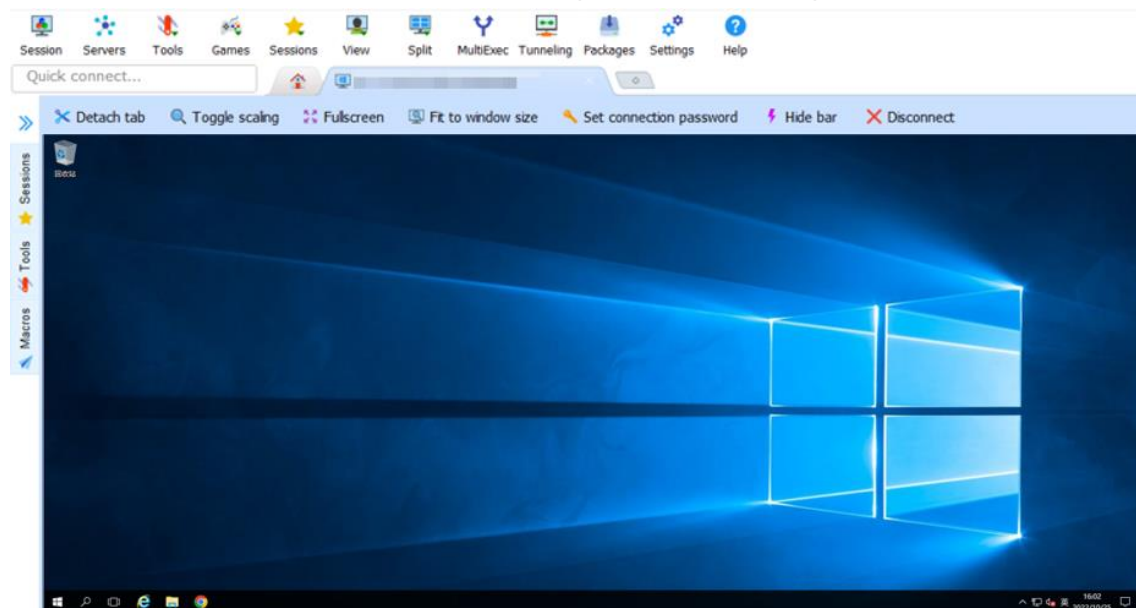
Console 页面，或页面左下方 Remote Console 选区可直接启用远程控制台；也可在上方搜索栏直接搜索 Remote Console 进行选择。本文以 HTML5 远程控制台为例。



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



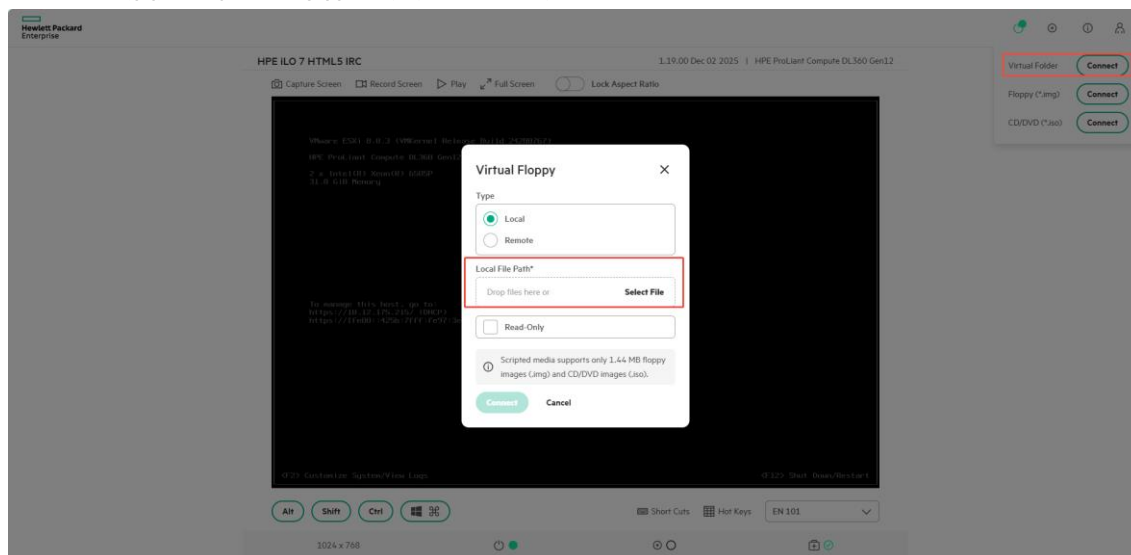
1.3 通过远程桌面或第三方 RDP 工具访问系统 (Windows Server)



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

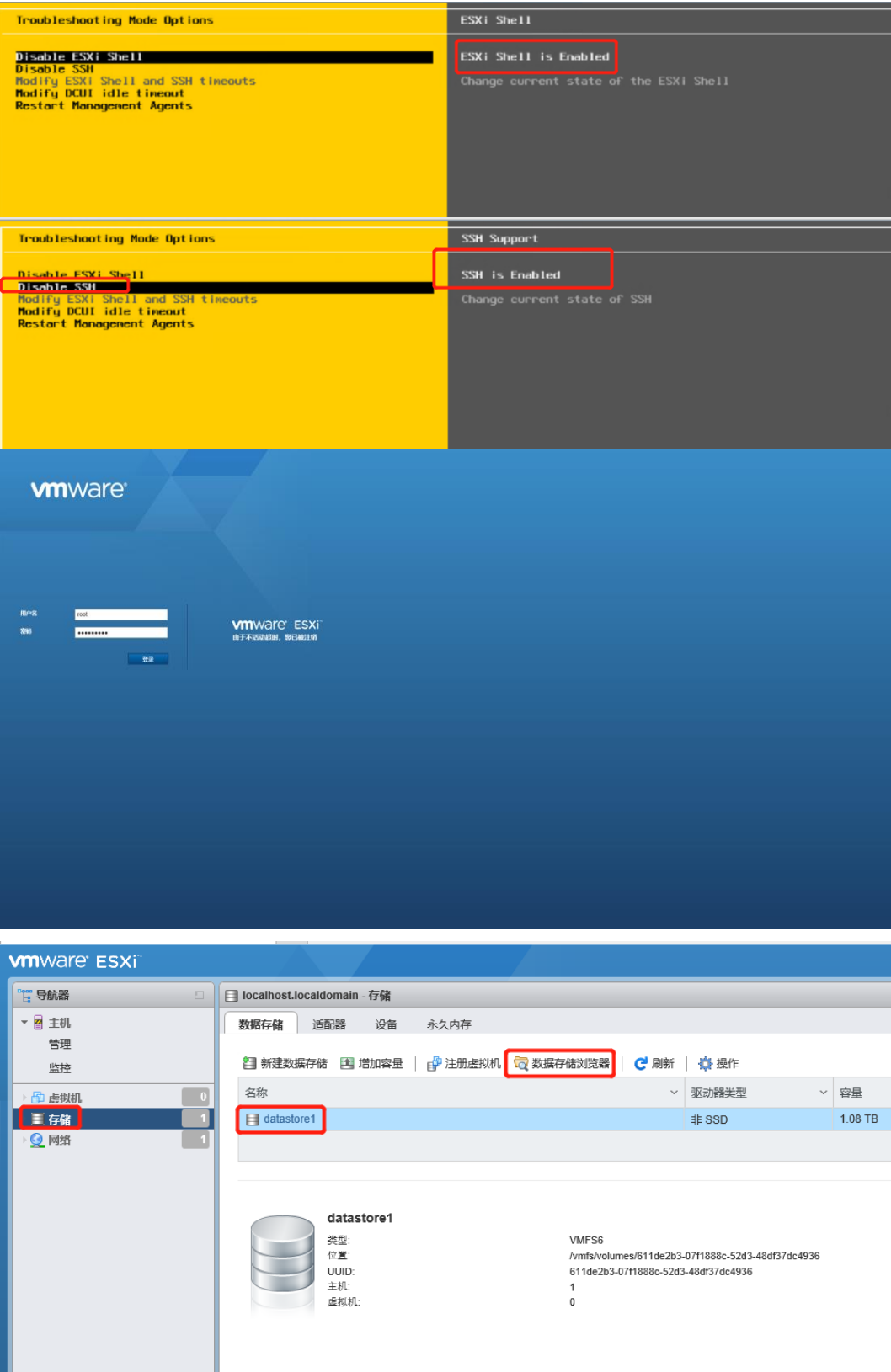
U 盘接入服务器后，在系统下通过 mount 命令挂载。

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



› storcli-esxi6.5-bundle-1.25.16 ›

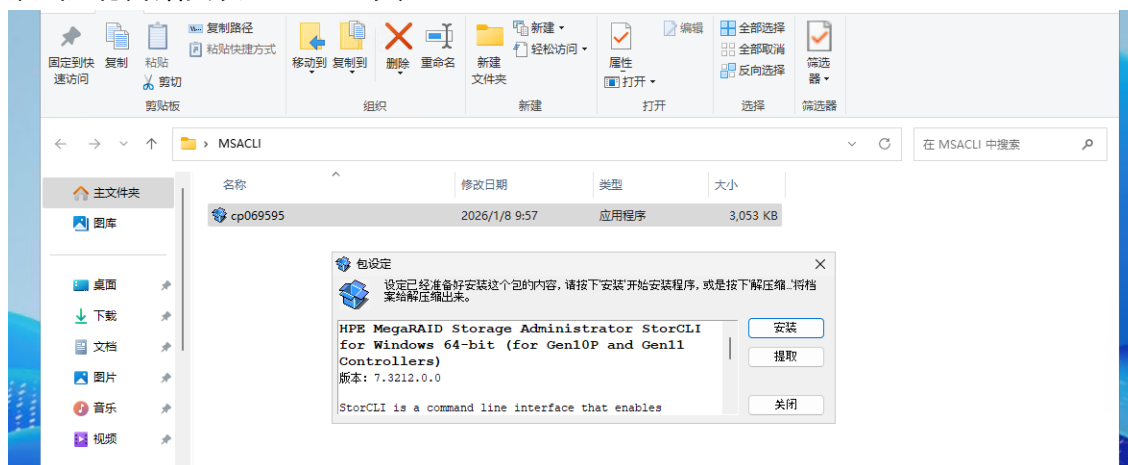
名称	修改日期	类型	大小
index.xml	2020/9/4 6:47	Microsoft Edge HT...	1 KB
metadata-storcli-esxi6.5-bundle-1.25.16.zip	2020/9/4 6:47	压缩(zipped)文件夹	3 KB
vendor-index.xml	2020/9/4 6:47	Microsoft Edge HT...	1 KB
vmware-esx-storcli-1.25.16.vib	2020/9/4 6:47	VIB 文件	2,025 KB

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。

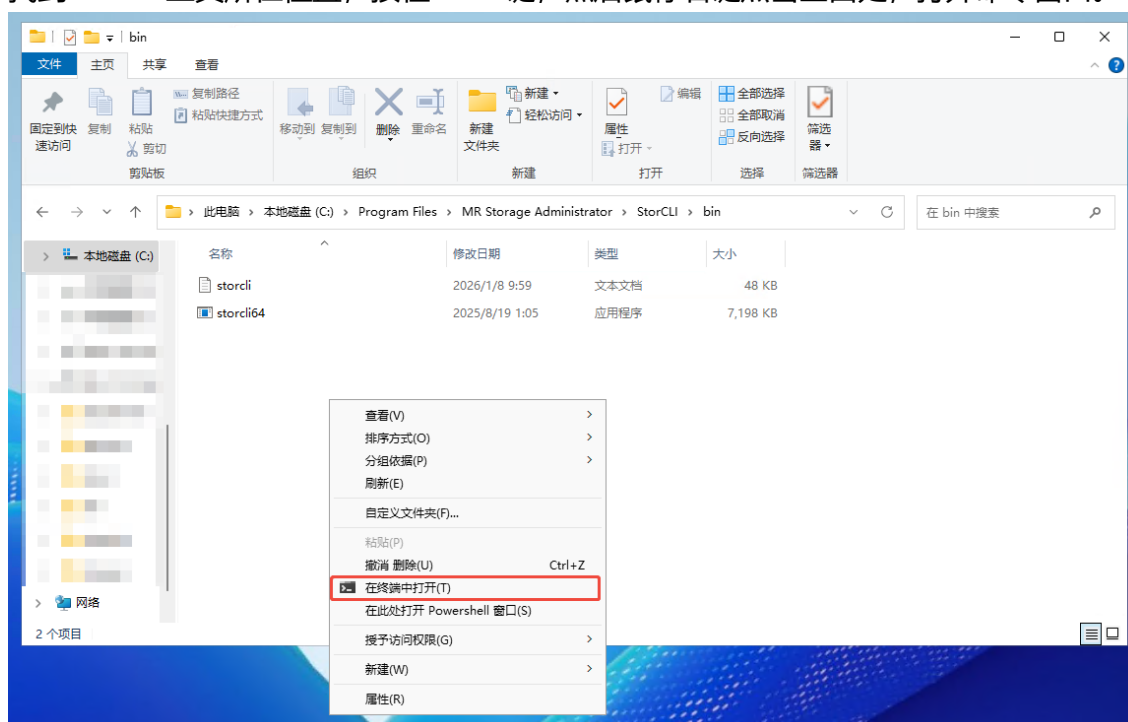
3. 安装 MegaRAID Storage Administrator StorCLI

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) `.\storcli64.exe`，即可运行 storcli 工具。

```
PS C:\Program Files\MR Storage Administrator\StorCLI\bin> .\storcli64.exe show all
CLI Version = 007.3212.0000.0000 Apr 16, 2025
Operating system = Windows Server 2025
Status Code = 0
Status = Success
Description = None

Number of Controllers = 1
Host Name = WIN-BMFCFVDM2A4
Operating System = Windows Server 2025
StoreLib IT Version = 07.3300.0200.0300
StoreLib IR3 Version = 16.16-0

System Overview :
=====
```

Ctl	Model	Ports	PDs	DGs	DN0pt	VDs	VN0pt	BBU	sPR	DS	EHS	ASOs	Hlth
0	HPEMR416i-oGen11	16	10	3	0	3	0	Opt	On	-	N	4	Opt

3.2 Linux

1) `rpm -ivh` 安装 storcli 工具。

```
[root@localhost ~]# rpm -ivh storcli-007.3212.0000.0000-1.noarch.rpm
警告: storcli-007.3212.0000.0000-1.noarch.rpm: 头 V4 RSA/SHA384 Signature, 密钥 ID 74c3a4a2: NOKEY
Verifying... ##### [100%]
准备中... ##### [100%]
正在升级/安装...
1:storcli-007.3212.0000.0000-1 ##### [100%]
egrep: warning: egrep is obsolescent; using grep -E
```

工具默认安装在 `/opt/hpe/storcli` 目录下，`./storcli64` 命令运行。

```
[root@localhost storcli]# ./storcli64 show all
CLI Version = 007.3212.0000.0000 Apr 16, 2025
Operating system = Linux 6.12.0-55.9.1.el10_0.x86_64
Status Code = 0
Status = Success
Description = None

Number of Controllers = 1
Host Name = localhost.localdomain
Operating System = Linux 6.12.0-55.9.1.el10_0.x86_64

System Overview :
=====
```

Ctl	Model	Ports	PDs	DGs	DN0pt	VDs	VN0pt	BBU	sPR	DS	EHS	ASOs	Hlth
0	HPEMR416i-oGen11	16	10	3	0	3	0	Opt	On	-	N	4	Opt

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] ls
cp067756.zip      stagingdirectory  vmware-root      vmware-uid_0
[root@localhost:/tmp] unzip cp067756.zip
Archive:  cp067756.zip
  inflating: BCM-storcli_007.3212.0000.0000-02.zip
  inflating: BCM_bootbank_storcli_007.3212.0000.0000-02.vib
  inflating: cp067756.xml
```

- 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。
安装完成后若提示需要重启，重启后在路径下可以看到对应工具。

```
[root@localhost:/tmp] esxcli software vib install -v /tmp/BCM_bootbank_storcli_007.3212.0000.0000-02.vib --no-sig-check
Installation Result
  Message: The update completed successfully, but the system needs to be rebooted for the changes to be effective.
  VIBs Installed: BCM_bootbank_storcli_007.3212.0000.0000-02
  VIBs Removed:
  VIBs Skipped:
  Reboot Required: true
  DPU Results:
```

- 3) 工具默认安装在/opt/storcli/bin 目录下，使用 **cd /opt/storcli/bin** 进入此目录。不同系统版本可能路径不同，若有差异，可自行在 opt 目录下查找，示例为 VMware 8.0 U3

```
[root@localhost:/opt/storcli/bin] ls
storcli64
```

4. 获取阵列卡编号、逻辑盘编号和物理盘编号（命令通用，以 Linux 系统为例）

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

```
[root@localhost storcli]# ./storcli64 show all
CLI Version = 007.3212.0000.0000 Apr 16, 2025
Operating system = Linux 6.12.0-55.9.1.el10_0.x86_64
Status Code = 0
Status = Success
Description = None

Number of Controllers = 1
Host Name = localhost.localdomain
Operating System = Linux 6.12.0-55.9.1.el10_0.x86_64
```

System Overview :

```
=====
Ctl Model          Ports PDs DGs DN0pt VD  VN0pt BBU sPR DS EHS ASOs Hlth
-----
0 HPEMR416i-oGen11 16  10  3   0   3   0 Opt On  -  N   4 Opt
-----
```

- 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 = 007.3212.0000.0000 Apr 16, 2025
Operating system = Linux 6.12.0-55.9.1.el10_0.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|R0=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  JB0D
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  JB0D
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:Slit	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 : Slit 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:Slit	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 : Slit 信息, 状态。

```
Physical Drives = 4
```

```
PD LIST :
```

```
=====
```

EID:Slit	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 : Slit 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:Sltr	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。如果无法恢复可能是因为刚创建直通盘，需要在 good 后添加 force。

```
[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:Sltr	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	-