HPE Gen12 服务器
通过 StorCLI 收集 MR 系列阵列卡日志

目录

一. 适用范围与注意事项

- 本文档旨在说明 HPE Gen12 系列服务器通过 StorCLI 收集 MR 系列阵列卡日志。

  MR 系列阵列卡包含如下型号：

  · HPE MR416i-p Gen11

- HPE MR416i-o Gen11
- HPE MR216i-p Gen11
- HPE MR216i-o Gen11
- HPE MR408i-o Gen11

➢ 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/218272

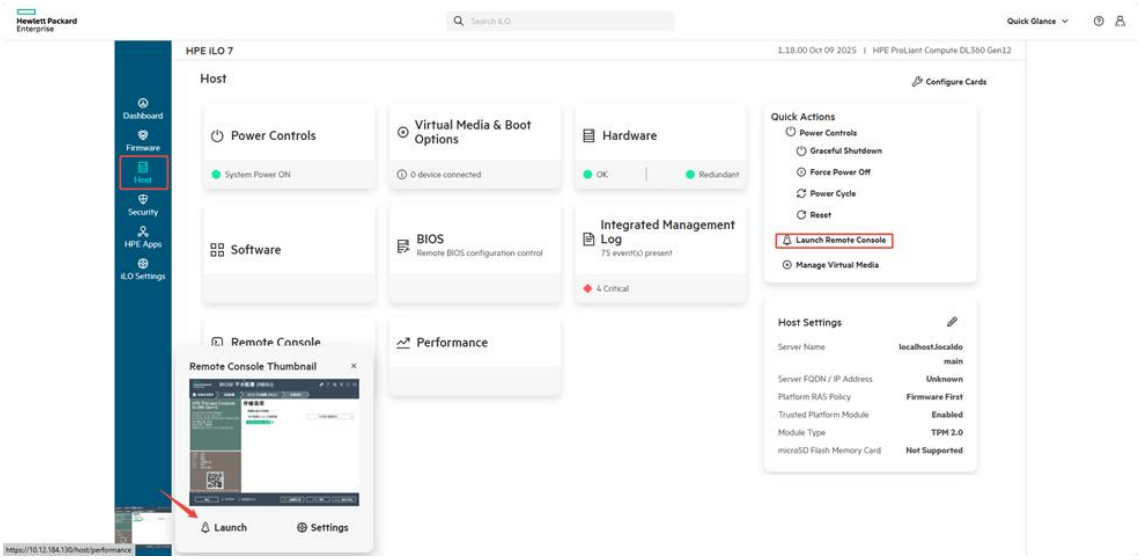
➢ 提示：
- 本文档中的信息（包括产品，软件版本和设置参数）仅作参考示例，具体操作与目标需求设置请以实际为准。
- 本文档不定期更新维护，请以发布的最新版本为准。

二. 操作准备

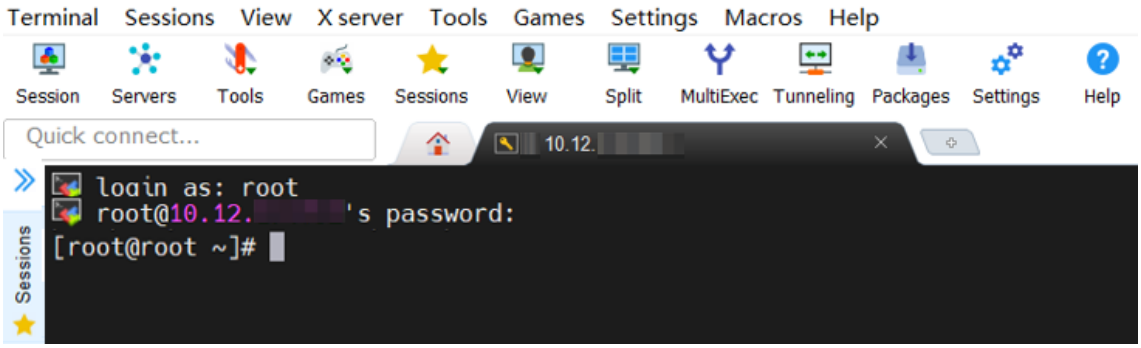
1. 下载 MegaRAID Storage Administrator StorCLI 工具
   ➢ Windows 下载链接：HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit (for Gen10P and Gen11 Controllers) | HPE Support
   ➢ Linux 下载链接： HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit (for Gen10P and Gen11 Controllers) | HPE Support
   ➢ 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. 操作步骤

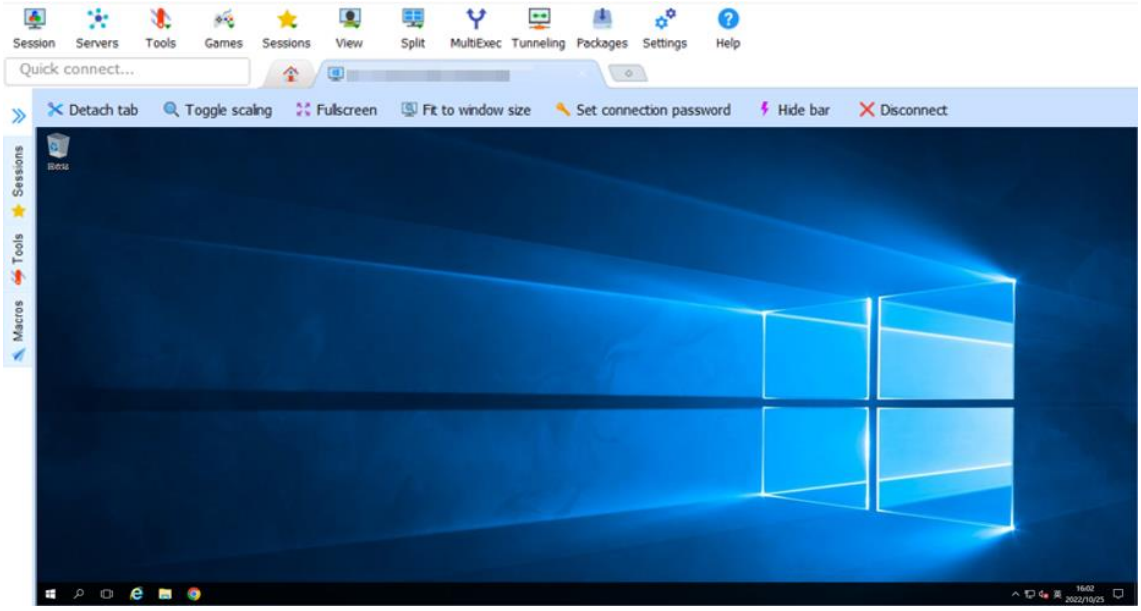
1. 访问系统
   1.1 通过 iLO 启用远程控制台访问系统
   通过 iLO7 页面 **Dashboard - Virtual Media & Remote Console** 选项，或 **Host - Remote Console** 页面，或页面左下方 Remote Console 选区可直接启用远程控制台；也可在上方搜索栏，直接搜索 Remote Console 进行选择。本文以 HTML5 远程控制台为。



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



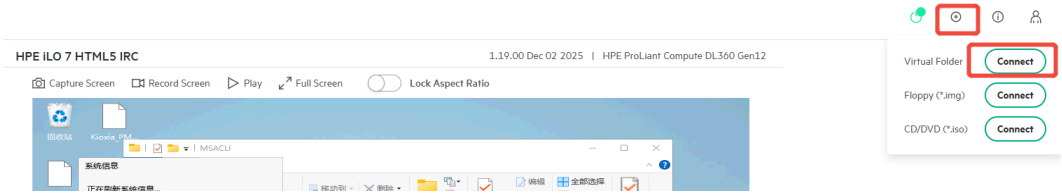
1.3 通过远程桌面或第三方 RDP 工具访问系统（Windows Server）



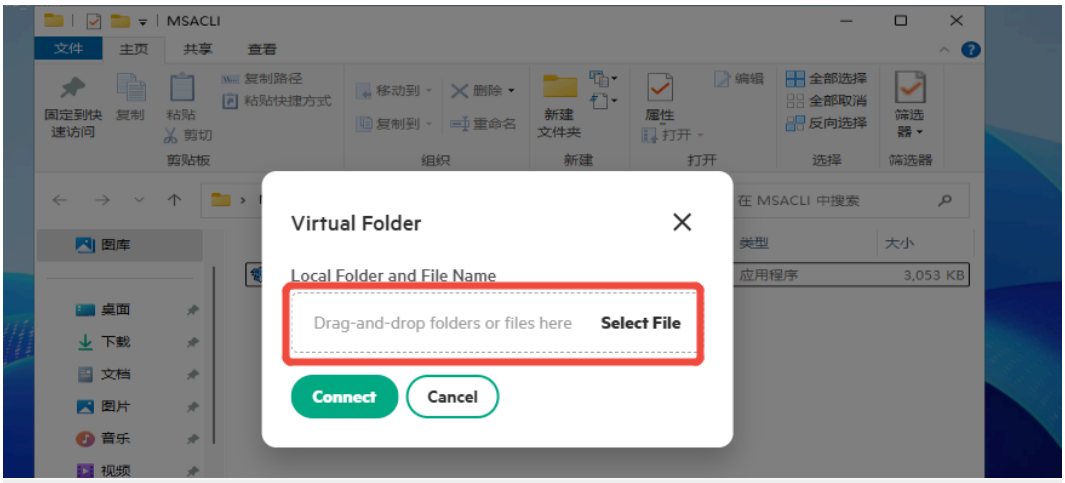
2. 将 MegaRAID Storage Administrator StorCLI 工具保存到系统下

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



注：需要挂在的文件拖动到需下图框内。

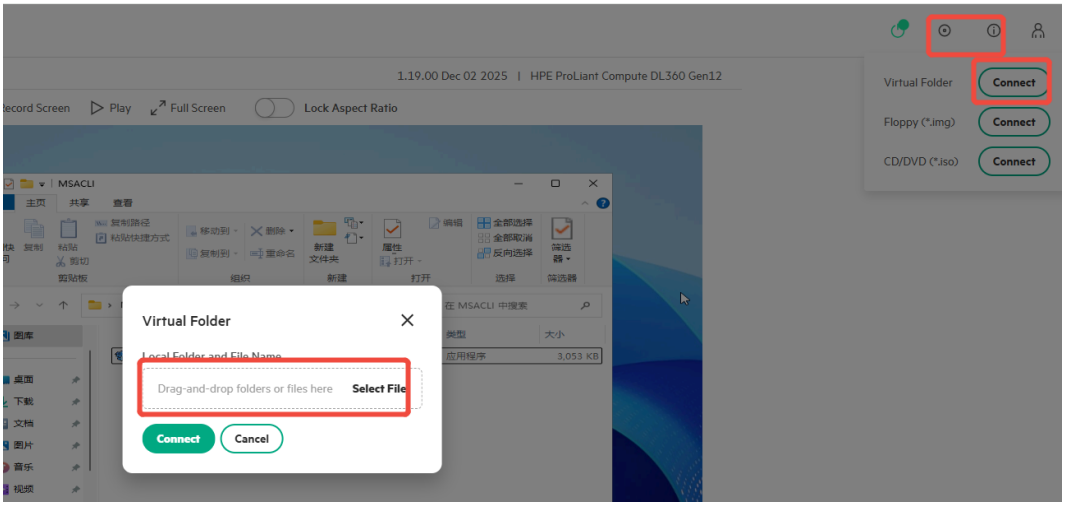


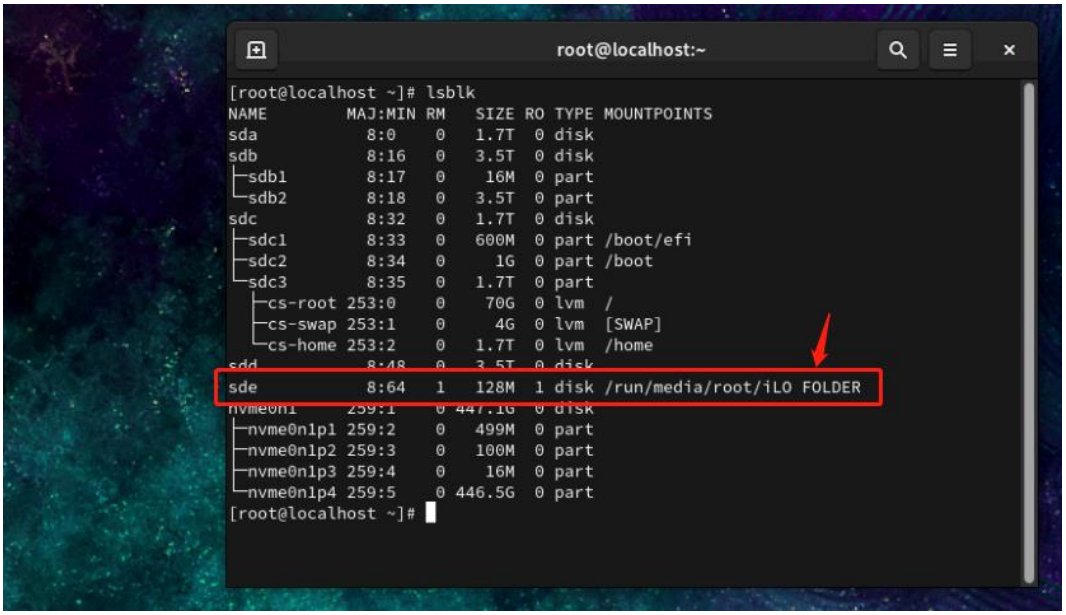
2.1.2 通过 U 盘将文件挂载到系统下

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





2.2.2 通过 U 盘将文件挂载到系统下

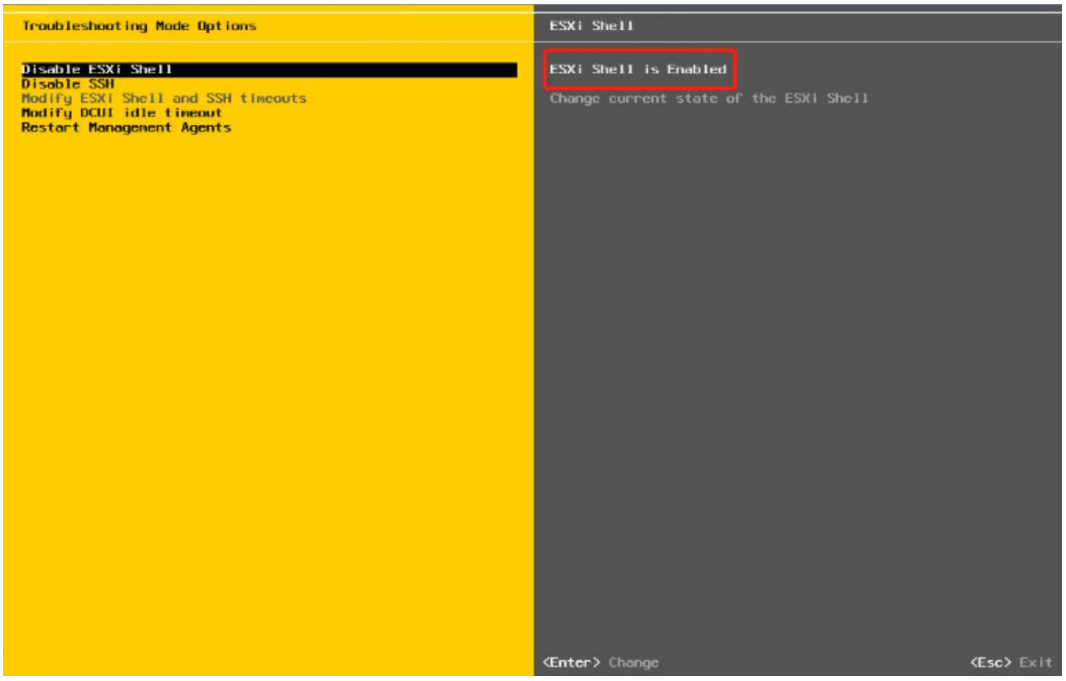
U 盘接入服务器后，在系统下通过 mount 命令挂载。

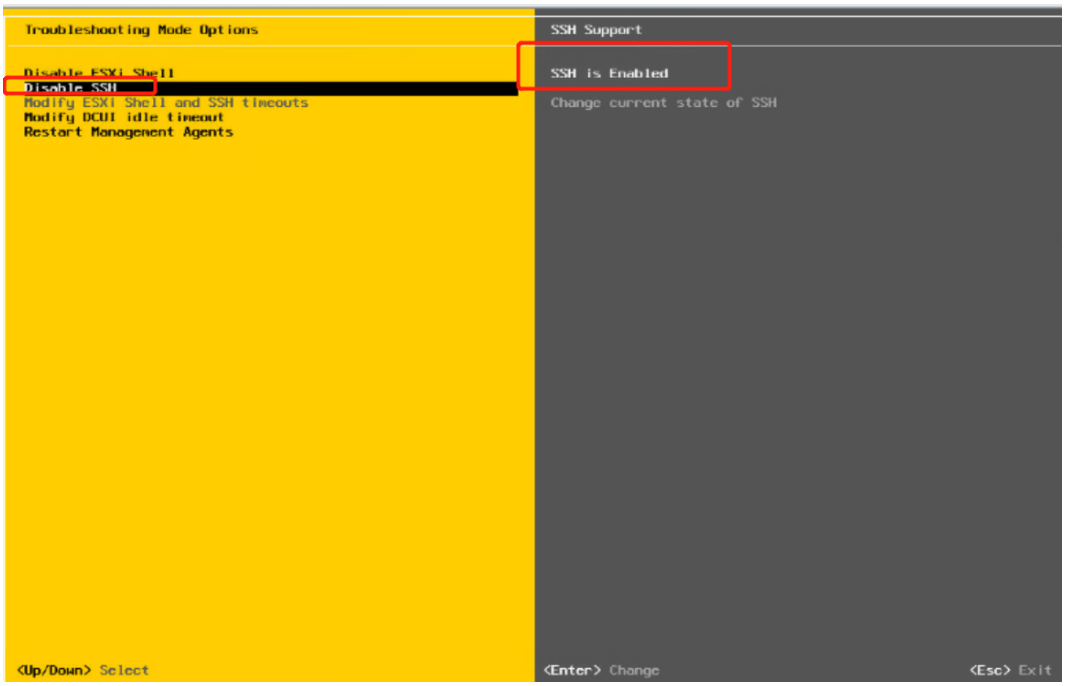
2.2.3 通过第三方 SSH 工具将文件保存到系统下

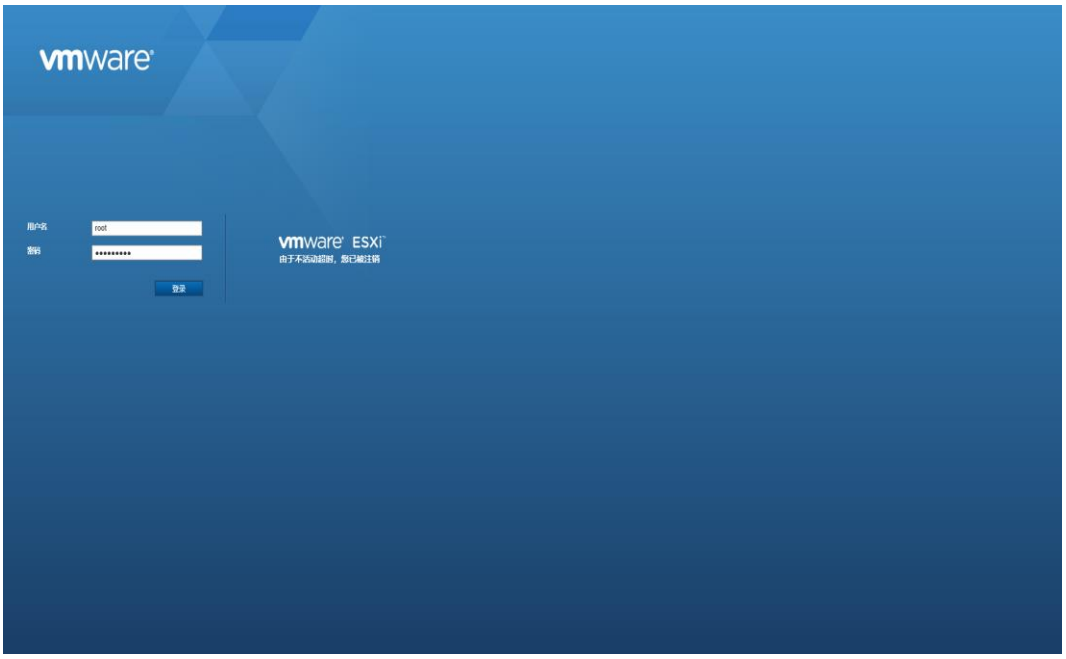
参考第三方工具使用说明。

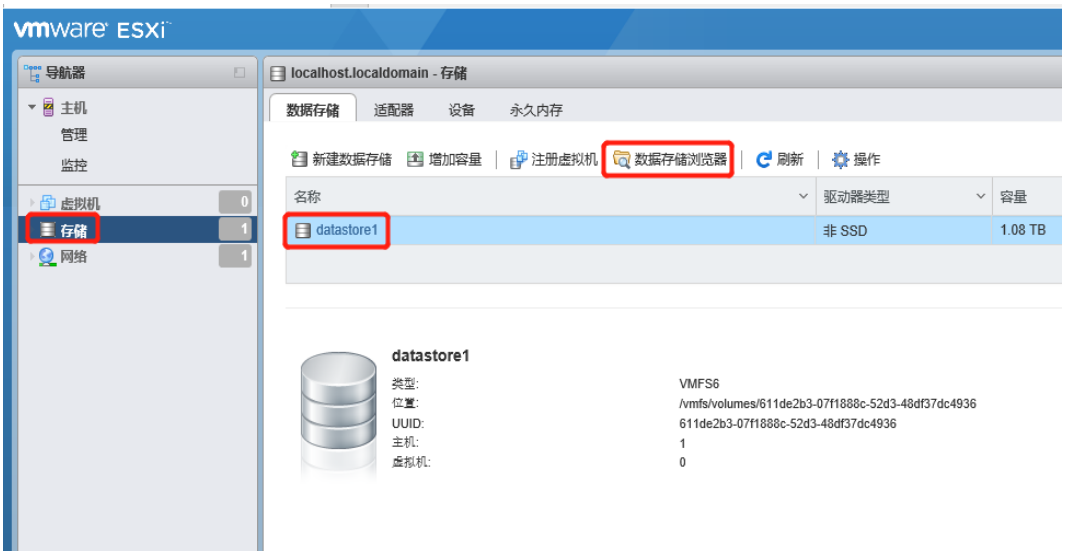
2.3 VMware ESXi

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
SSH Support
SSH is Enabled
Change current state of SSH
<Up/Down> Select
<Enter> Change
<Esc> Exit


vmware
root
vmware ESXi



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 exe 安装包开始安装。

2) 安装完成后工具默认在如下路径。

C:\ProgramFiles\MR Storage Administrator\StorCLI\bin

3.2 Linux

输入 **rpm -ivh storcli-xxx.rpm** 命令安装 storcli 工具。

```
sde           8:64   1    16M  1 disk /run/media/root/iLO FOLDER
nvme0n1     259:1    0 447.1G  0 disk
├─nvme0n1p1 259:2    0   499M  0 part
├─nvme0n1p2 259:3    0   100M  0 part
├─nvme0n1p3 259:4    0    16M  0 part
└─nvme0n1p4 259:5    0 446.5G  0 part
[root@localhost /]# cp -r /run/media/root/iLO\ FOLDER/ /opt
[root@localhost /]# cd /opt
[root@localhost opt]# ls
 111   HPEMRSA  'iLO FOLDER'   ilorest-4.6.0.0-11.x86_64.rpm   MRSA   tool
[root@localhost opt]# cd iLO\ FOLDER/
[root@localhost iLO FOLDER]# ls
storcli-007.2417.0000.0000-1.noarch.rpm
[root@localhost iLO FOLDER]# rpm -ivh storcli-007.2417.0000.0000-1.noarch.rpm
Verifying...                          ################################# [100%]
Preparing...                          ################################# [100%]
        file /opt/MegaRAID/storcli/storcli64 from install of storcli-007.2417.0000.0000-1.noarch c
onflicts with file from package storcli-007.2207.0000.0000-1.noarch
        file /usr/share/smartupdate/storcli/component.xml from install of storcli-007.2417.0000.00
00-1.noarch conflicts with file from package storcli-007.2207.0000.0000-1.noarch
[root@localhost iLO FOLDER]#
```

3.3 VMware ESXi

1) 使用 **unzip xxx.zip** 命令解压 storcli 工具。

```
[root@localhost:/tmp] unzip cp054327.zip
Archive:  cp054327.zip
  inflating: BCM-vmware-storcli64_007.1616.0000.0000-01_17650073.zip
  inflating: cp054327.xml
[root@localhost:/tmp]
```

2) 输入如下命令安装 storcli 工具。

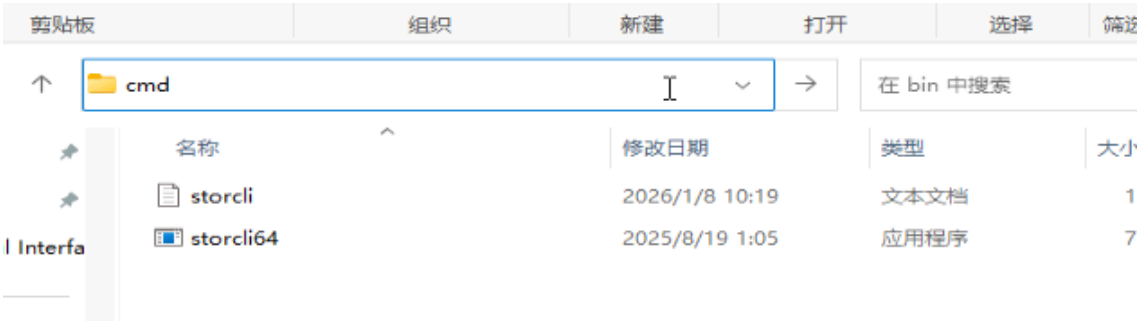
esxcli software vib install -d [软件包所在的绝对路径] [.zip 文件名] --no-sig-check

```
[root@localhost:/tmp] esxcli software vib install -d /tmp/BCM-vmware-storcli64_007.1616.0000.0000-01_17650073.zip --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:
[root@localhost:/tmp]
```

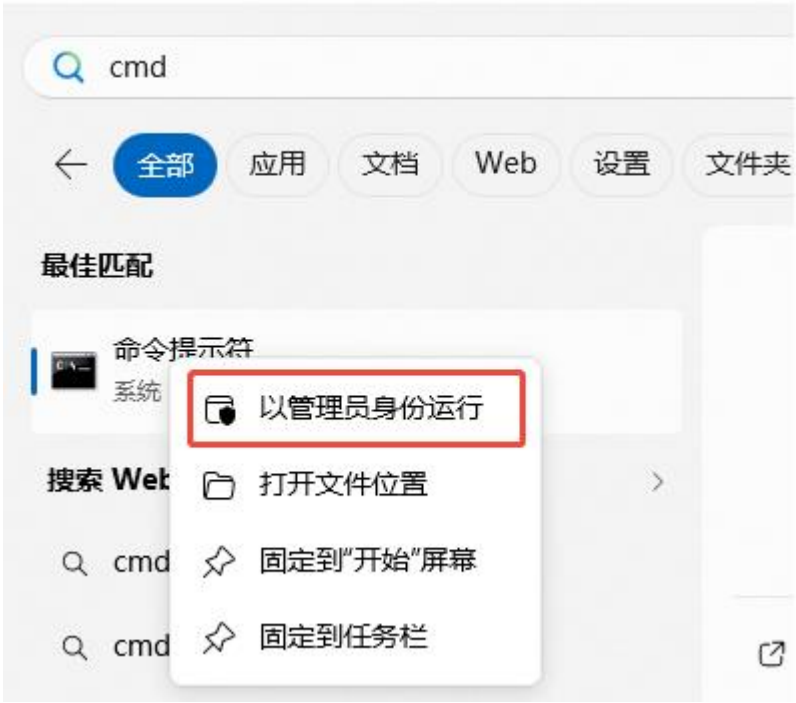
4. 收集阵列卡日志

4.1 Windows Server

1) 切换系统管理员权限后再执行，在 storcli 工具的路径上输入 cmd，在此目录下打开命令行。



或在命令提示符右键“以管理员身份运行”打开命令提示符界面，再通过 cd /d 工具路径方式切换到工具路径下。



2) 执行如下命令收集日志（黄色标记处为存放日志的目录，后面是文件名）。

storcli64 /call show all logfile=C:\storcli_log\showall.txt

storcli64 /call show events logfile=C:\storcli_log\showevent.txt

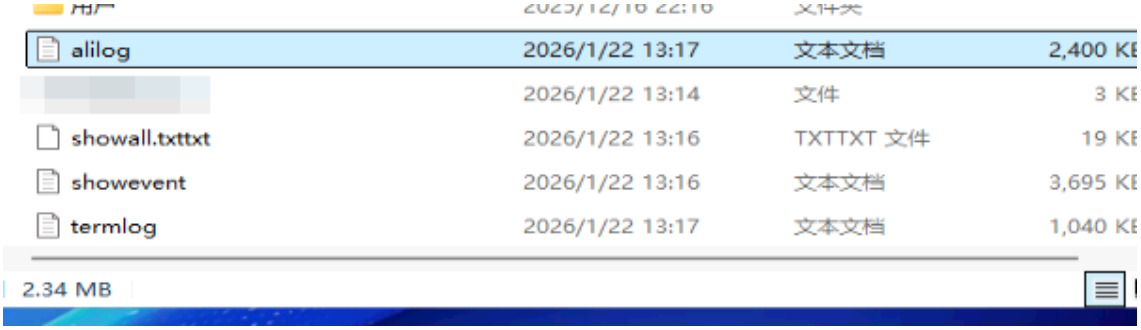
storcli64 /call show alilog logfile=C:\storcli_log\alilog.txt

storcli64 /call show termlog logfile=C:\storcli_log\termlog.txt

```
C:\Program Files\MR Storage Administrator\StorCLI\bin>storcli64.exe /call show all logfile=C:\showall.txttxt
C:\Program Files\MR Storage Administrator\StorCLI\bin>storcli64.exe /call show events logfile=C:\showevent.txt

C:\Program Files\MR Storage Administrator\StorCLI\bin>storcli64.exe /call show alilog logfile=C:\alilog.txt
C:\Program Files\MR Storage Administrator\StorCLI\bin>storcli64.exe /call show termlog logfile=C:\termlog.txt
C:\Program Files\MR Storage Administrator\StorCLI\bin>
```

3) 查看收集的日志。



4.2 Linux

1) 切换到 root 账户，使用 **cd /opt/MegaRAID/storcli** 命令切换到 storcli 工具所在目录。

```
[root@localhost tmp]# cd /opt/MegaRAID/storcli/
[root@localhost storcli]# ls
install.log  storcli64
[root@localhost storcli]#
```

2) 执行如下命令收集日志（黄色标记处为存放日志的目录，后面是文件名）。

./storcli64 /call show all > /tmp/log/showall.txt

./storcli64 /call show events > /tmp/log/showevent.txt

./storcli64 /call show alilog > /tmp/log/alilog.txt

./storcli64 /call show termlog > /tmp/log/termlog.txt

```
[root@localhost storcli]# ./storcli64 /call show all > /tmp/log/showall.txt
[root@localhost storcli]# ./storcli64 /call show events > /tmp/log/showevent.txt
[root@localhost storcli]# ./storcli64 /call show alilog > /tmp/log/alilog.txt
[root@localhost storcli]# ./storcli64 /call show termlog > /tmp/log/termlog.txt
[root@localhost storcli]# cd /tmp/log
[root@localhost log]# ls
alilog.txt  showall.txt  showevent.txt  termlog.txt
```

4.3 VMware ESXi

1) 使用 **cd /opt/hpe/storcli64/** 命令切换到 storcli 工具所在目录。

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

2) 执行如下命令收集日志（黄色标记处为存放日志的目录，后面是文件名）。

./storcli64 /call show all > /tmp/log/showall.txt

./storcli64 /call show events > /tmp/log/showevent.txt

./storcli64 /call show alilog > /tmp/log/alilog.txt

./storcli64 /call show termlog > /tmp/log/termlog.txt

```
[root@localhost:/opt/lsi/storcli64] ./storcli64 /call show all > /tmp/log/showall.txt
[root@localhost:/opt/lsi/storcli64] ./storcli64 /call show events > /tmp/log/showevent.txt
[root@localhost:/opt/lsi/storcli64] ./storcli64 /call show alilog > /tmp/log/alilog.txt
[root@localhost:/opt/lsi/storcli64] ./storcli64 /call show termlog > /tmp/log/termlog.txt
[root@localhost:/opt/lsi/storcli64] cd /tmp/log
[root@localhost:/tmp/log] ls
alilog.txt     showall.txt    showevent.txt  termlog.txt
[root@localhost:/tmp/log]
```