

HPE Gen10 Plus/Gen10 服务器

通过 StorCLI 收集 MR 系列阵列卡日志

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一. 适用范围与注意事项

- 本文档旨在说明 HPE Gen10 Plus 及 Gen10 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 Gen10 Plus Controller

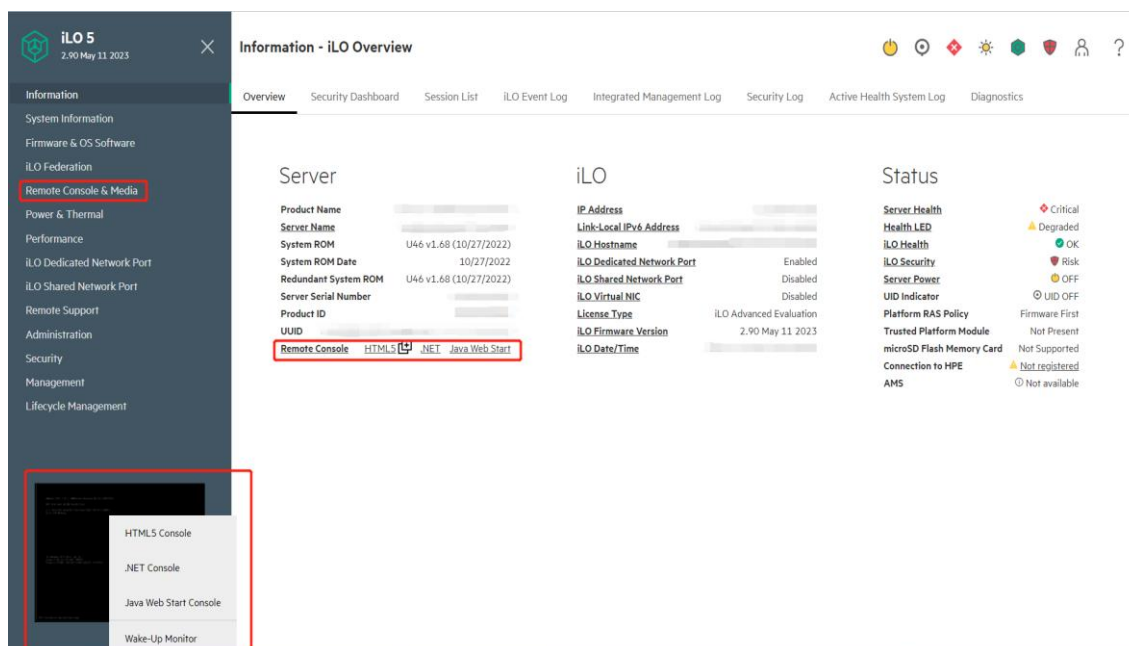
- HPE MR416i-a Gen10 Plus 12G Controller
- HPE MR216i-p Gen10 Plus 12G Controller
- HPE MR216i-a Gen10 Plus 12G Controller
- 实际情况是否适用本文档，请通过下面导航链接进行确认：
<https://zhiliao.h3c.com/Theme/details/218272>
- 提示：
 - 本文档中的信息（包括产品，软件版本和设置参数）仅作参考示例，具体操作与目标需求设置请以实际为准。
 - 本文档不定期更新维护，请以发布的最新版本为准。

二. 操作准备

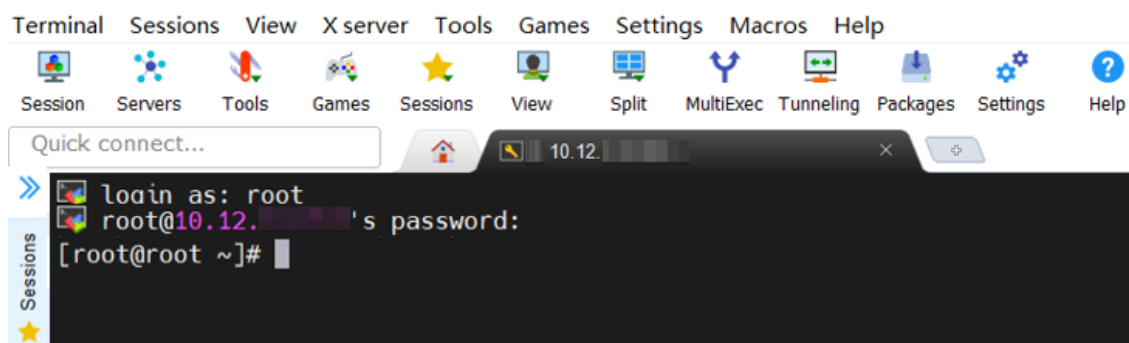
1. 下载 MegaRAID Storage Administrator StorCLI 工具
 - Windows 下载链接：[HPE MegaRAID Storage Administrator StorCLI for Windows 64-bit | HPE Support](#)
 - Linux 下载链接：[HPE MegaRAID Storage Administrator StorCLI for Linux 64-bit \(for Gen10 and Gen10 Plus Controllers\) | HPE Support](#)
 - VMware 下载链接：
 - ESXi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

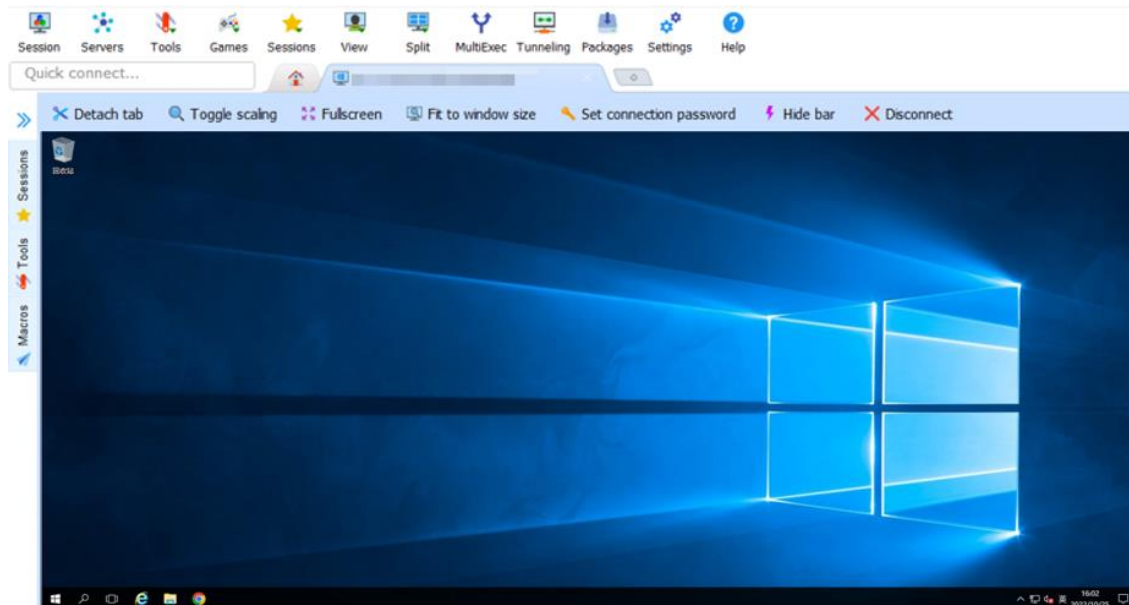
1. 访问系统
 - 1.1 通过 iLO 启用远程控制台访问系统 (Windows Server, Linux, VMware ESXi)
iLO 5 页面 Information -> Overview 的 Remote Console 选项，或页面左下方 Remote Console 选区可直接启用远程控制台；也可在 Remote Console & Media - iLO Integrated Remote Console 页面进行选择。本文以 HTML5 远程控制台为例。



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



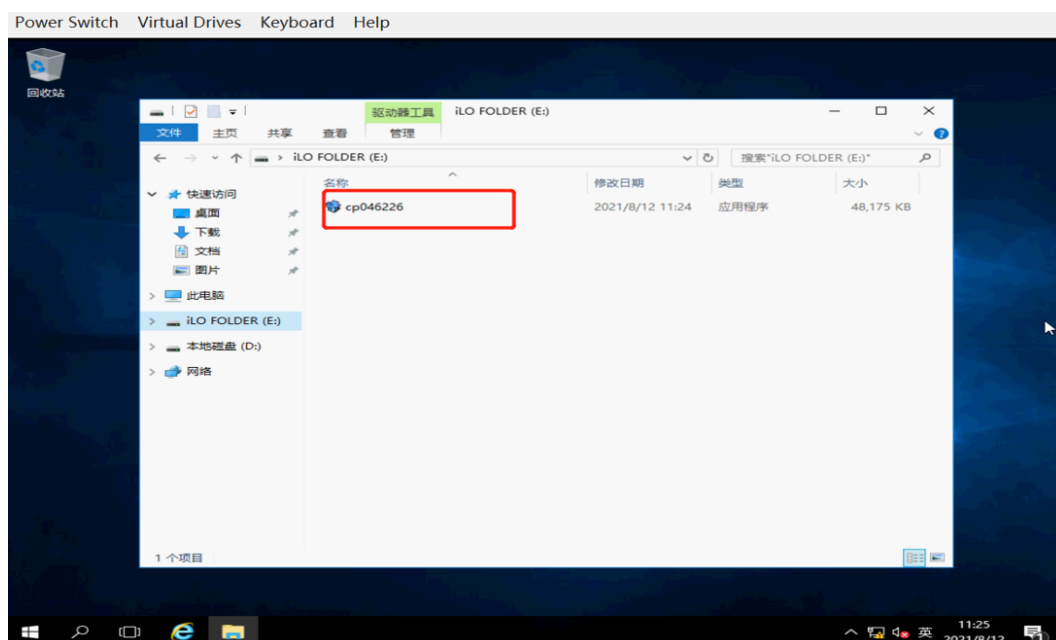
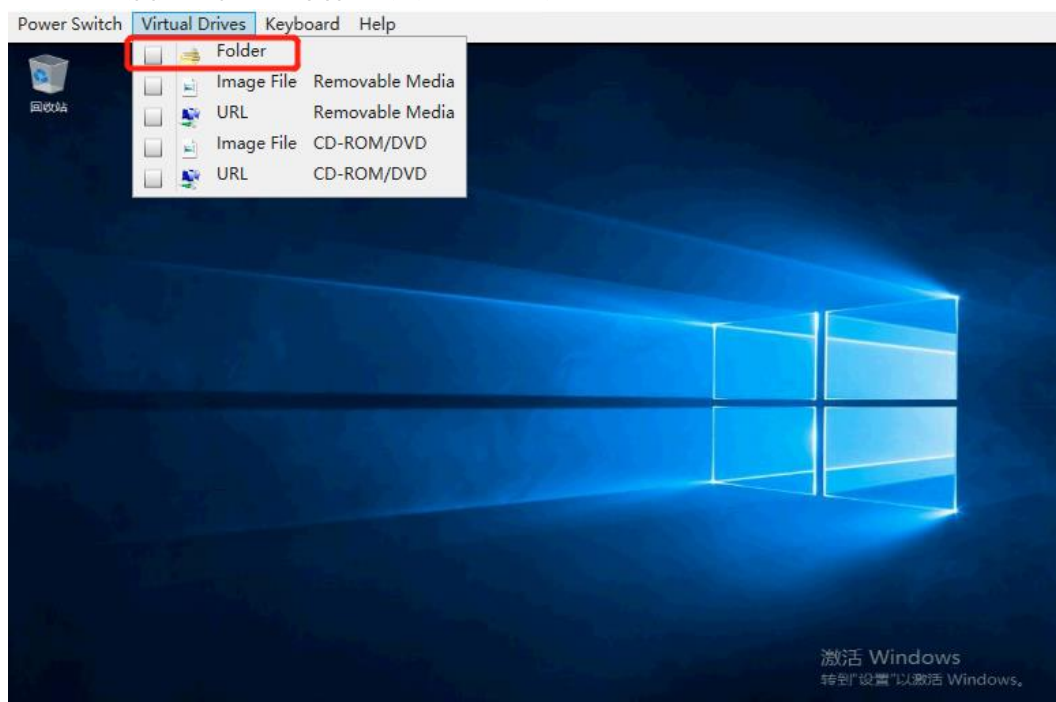
1.3 通过远程桌面或第三方 RDP 工具访问系统 (Windows Server)



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

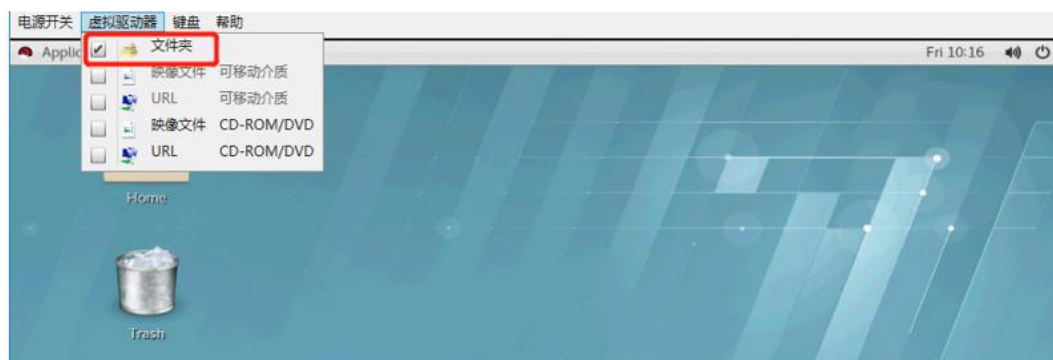


2.1.2 通过 U 盘将文件挂载到系统下

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

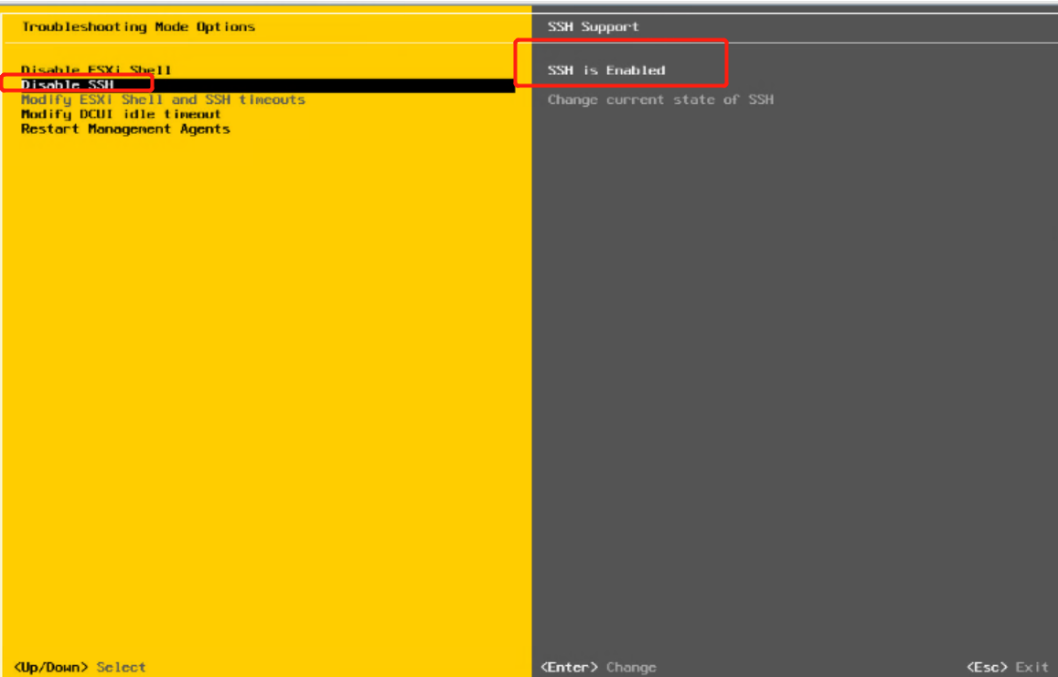
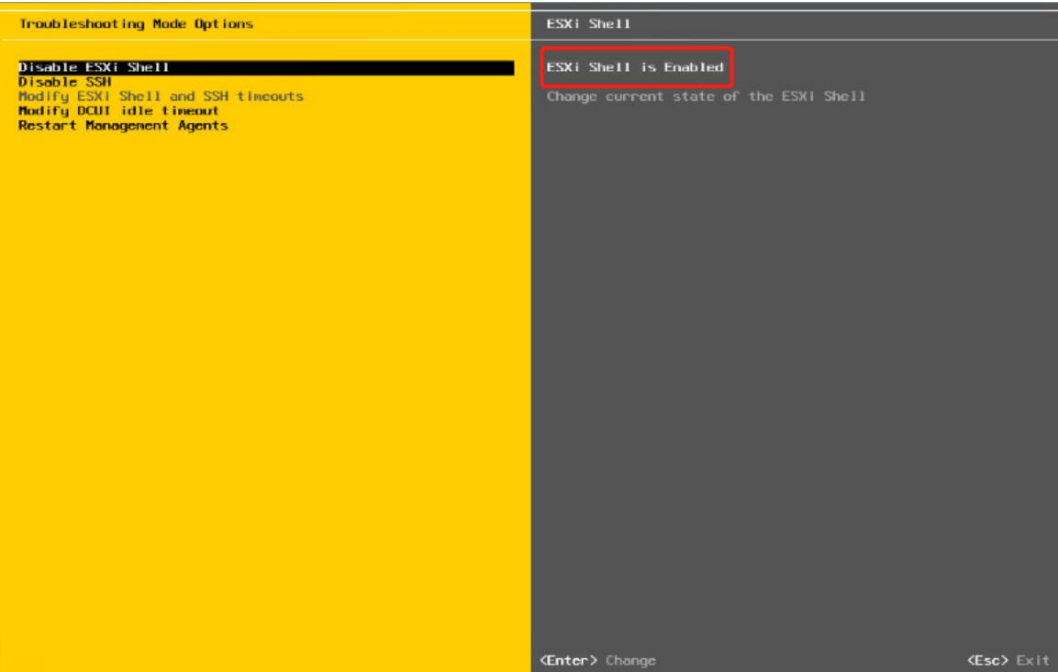
U 盘接入服务器后，在系统下通过 mount 命令挂载。

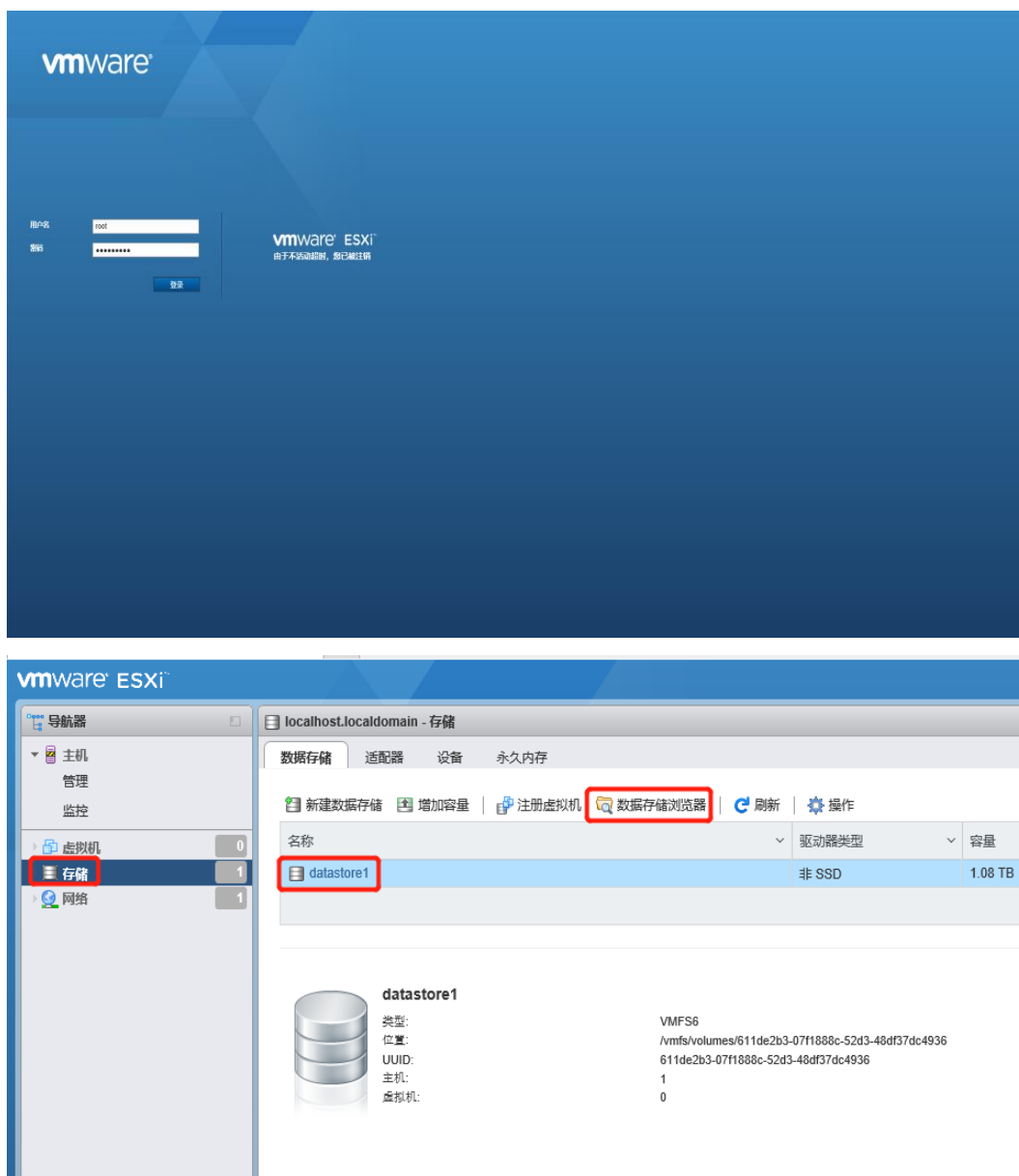
2.2.3 通过第三方 SSH 工具将文件保存到系统下

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



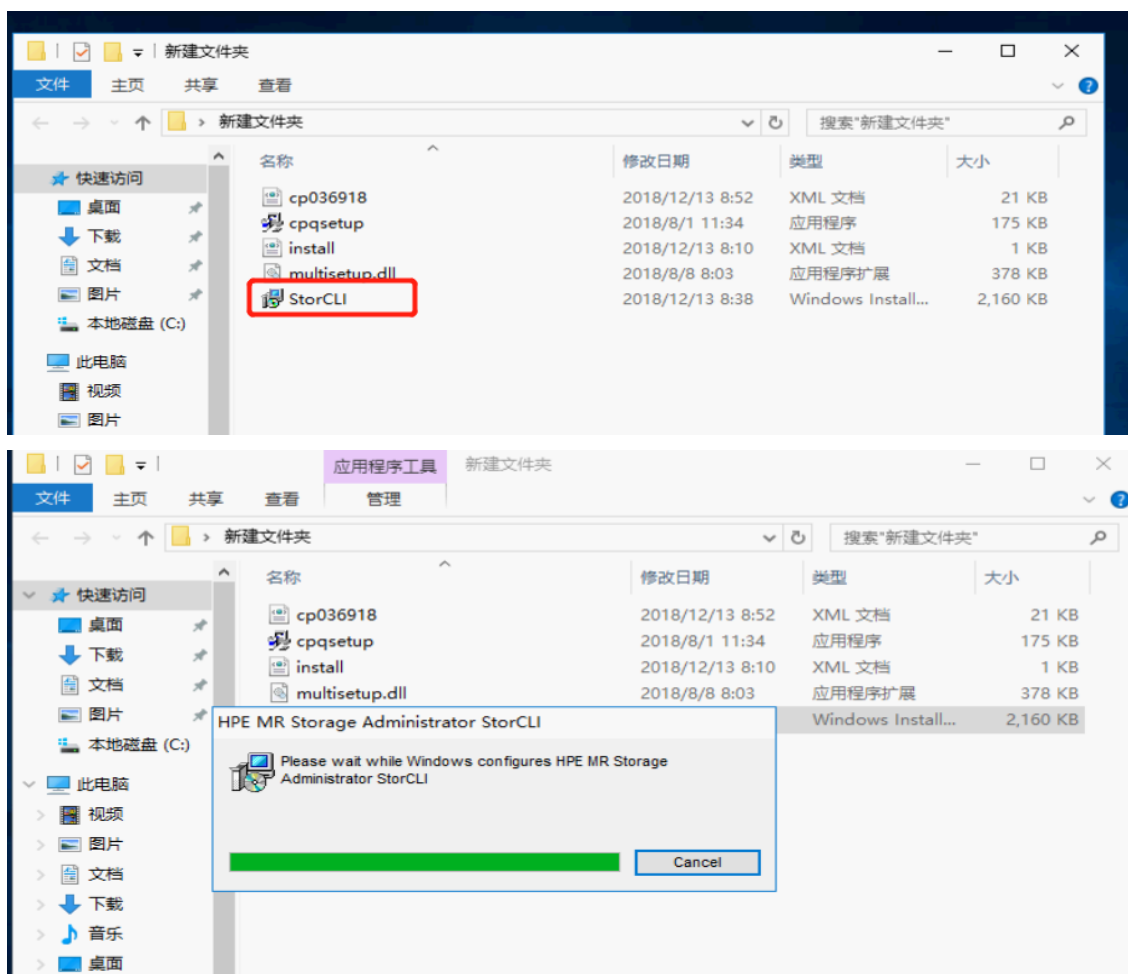


2.3.2 通过第三方 SSH 工具将文件保存到系统下
参考第三方工具使用说明。

3. 安装 MegaRAID Storage Administrator StorCLI

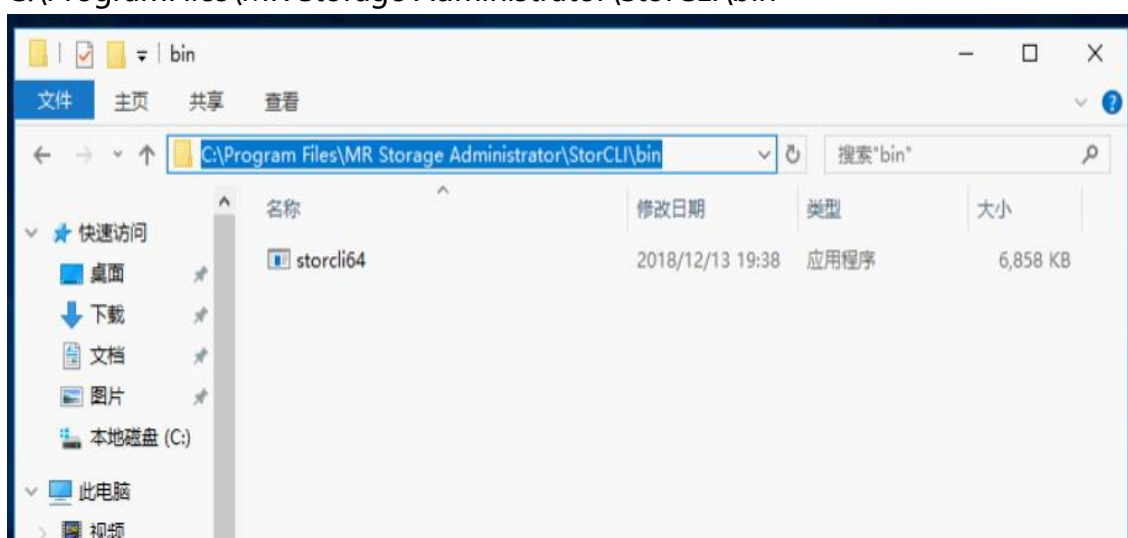
3.1 Windows Server

1) 双击 StorCLI 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。

```
[root@localhost tmp]# rpm -ivh storcli-007.2207.0000.0000-1.noarch.rpm
warning: storcli-007.2207.0000.0000-1.noarch.rpm: Header V3 RSA/SHA256 Signature, key ID 26c2b797: NOKEY
Preparing... ##### [100%]
Updating / installing...
 1:storcli-007.2207.0000.0000-1 ##### [100%]
[root@localhost tmp]#
```

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。

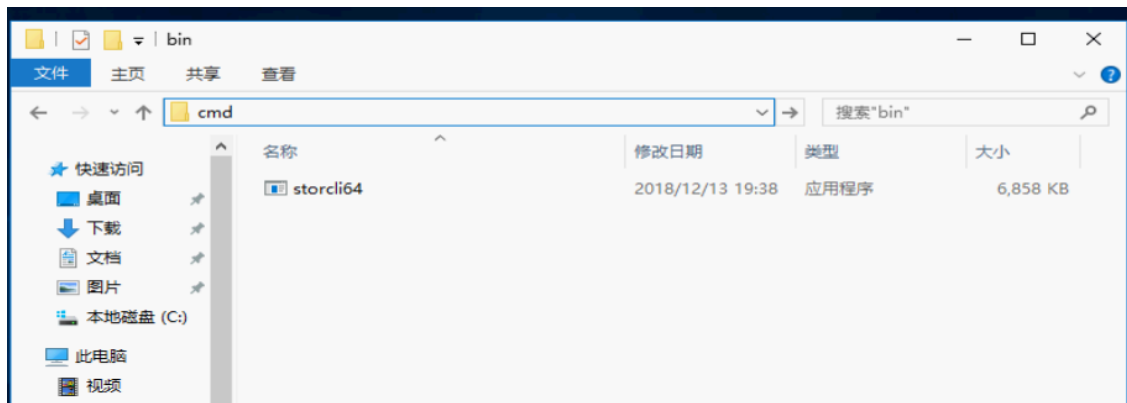
esxcli software vib install -d [软件包所在的绝对路径] [.zip 文件名] --no-sig-check

```
[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]#
```

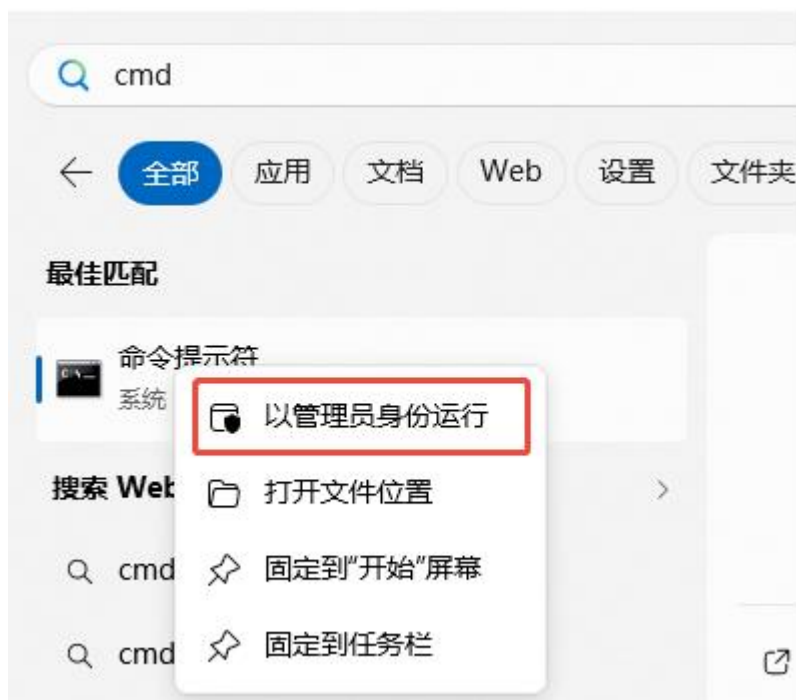
4. 收集阵列卡日志

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。

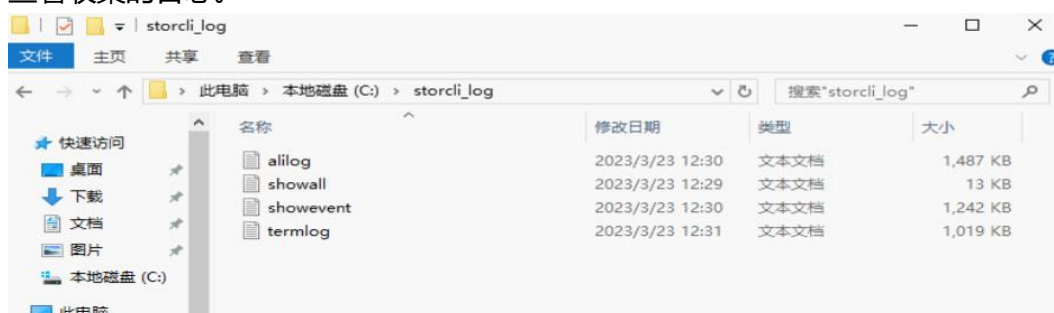


- 2) 执行如下命令收集日志（黄色标记处为存放日志的目录，后面是文件名）。

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