

H3C G5 服务器 VMware 系统下升级 LSI 阵列卡固件

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一. 适用范围与注意事项

- 本文档旨在说明 H3C G5 系列服务器通过阵列卡工具在系统下更新阵列卡固件的方法，并以 R4900 G5 服务器安装的 ESXi 6.7 为例进行更新步骤说明。
- 如文中方法不适用或阵列卡型号不匹配，可以通过下面导航链接查找适用文档：
<https://zhiliao.h3c.com/Theme/details/208125>
- 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。
 - 固件更新有风险，请注意提前备份数据。
 - 本文档不定期更新维护，请以发布的最新版本为准。

二. 升级准备

1. 阵列卡工具与固件获取

阵列卡工具 Storcli 获取：<https://zhiliao.h3c.com/Theme/details/229626>

固件获取：<https://zhiliao.h3c.com/theme/details/214642>

2. 连接 HDM 与启用远程控制台

具体方法请参考：<https://zhiliao.h3c.com/Theme/details/210144>

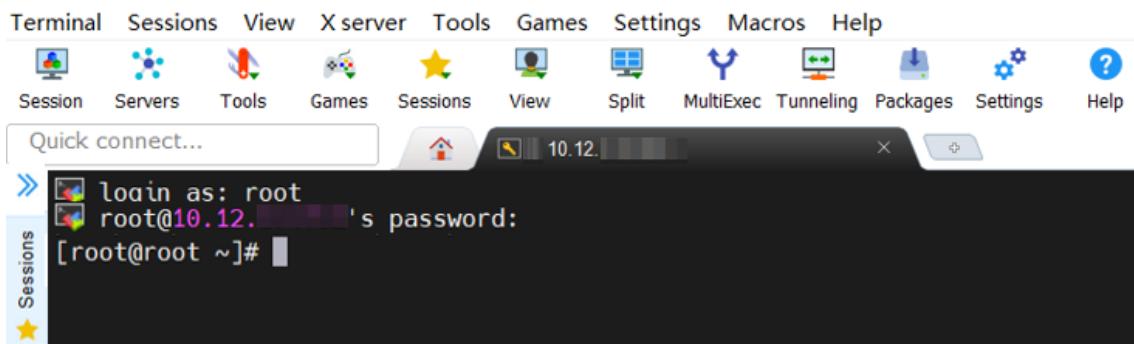
三. 升级步骤

1. 访问系统

1.1 通过 HDM 启用 KVM/H5 KVM 访问系统



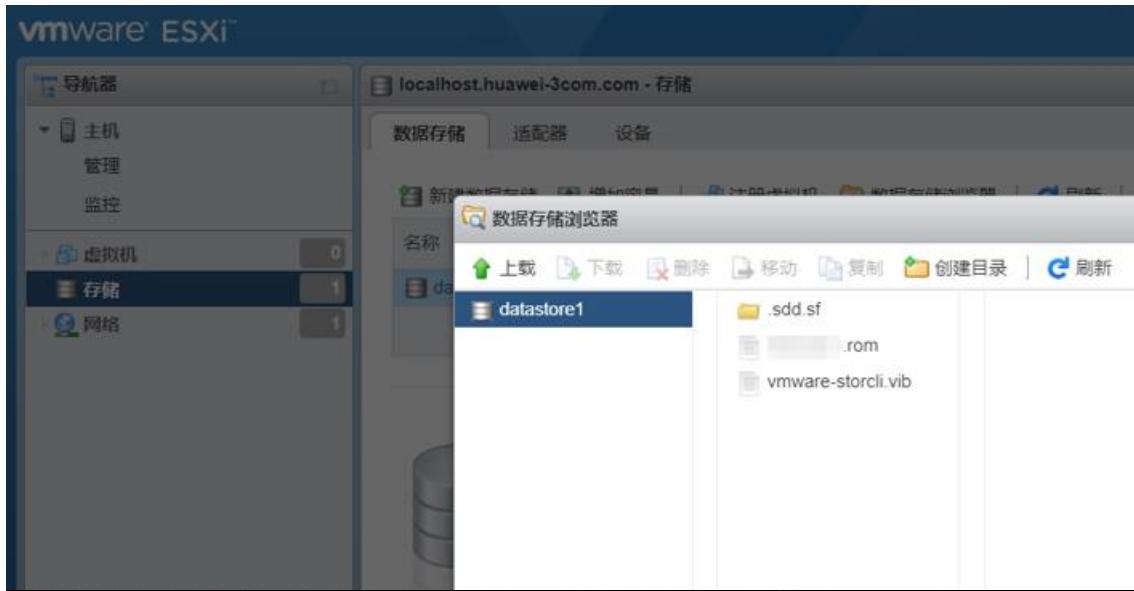
1.2 通过第三方 SSH 工具访问系统



2. 将阵列卡工具与固件包保存到系统下

LSI 阵列卡工具为 vmware-storcli.vib，固件包为 xxx.rom。

2.1 启用 Shell 并通过 Web Client 将文件保存到系统下



```
[root@localhost:~] cd /vmfs/volumes/datastore1/
[root@localhost:/vmfs/volumes/6359fa8a-879a9e1e-8693-5cc999ded9be] ls
MR_4MB.rom          vmware-storcli.vib
```

2.2 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. 安装阵列卡工具

- 1) 将 Storcli 安装包存放至/tmp 路径下。
- 2) 进入/tmp 路径, 执行 esxcli software vib install -v /tmp/vmware-storcli.vib --no-sig-check -f 命令安装 Storcli 工具, ESXi 6.x 默认安装路径为/opt/lsi/storcli, ESXi 7.x 默认安装路径 /opt/lsi/storcli64/storcli64。

注:

.vib 文件使用绝对路径, 否则会报错;

-f 参数强制安装, 省略可能会出现 “Could not find a trusted signer” 报错。

```
[root@localhost:~] esxcli software vib install -v /tmp/vmware-storcli.vib --no-sig-check -f
Installation Result
  Message: Operation finished successfully.
  Reboot Required: false
  VIBs Installed: Broadcom_bootbank_vmware-storcli_007.1316.0000.0000-01
  VIBs Removed:
  VIBs Skipped:
```

注: 请将 xxx.rom 固件包保存到/opt/lsi/storcli 路径下。

4. 通过命令确认待升级阵列卡的 ID, 以及更新前固件版本

4.1 查看 Controller ID

执行/opt/lsi/storcli/storcli show 命令, 本例回显 Controller ID 为 0。

注: ESXi 6.x 执行/opt/lsi/storcli/storcli show 命令, ESXi 7.x 执行/opt/lsi/storcli/storcli64 show 命令。

```
[root@localhost:~] /opt/lsi/storcli/storcli show
CLI Version = 007.1316.0000.0000 Mar 12, 2020
Operating system = VMkernel 6.5.0
Status Code = 0
Status = Success
Description = None

Number of Controllers = 1
Host Name = localhost.huawei-3com.com
Operating System = VMkernel 6.5.0
StoreLib IT Version = 07.1400.0200.0200
StoreLib IR3 Version = 16.11-0

System Overview :
=====

-----
```

Ctl	Model	Ports	PDs	DGs	DNOpt	VDs	VNOpt	BBU	sPR	DS	EHS	AS0s	Hlth
0	AVAGOmega	8	3	0	0	0	0	Opt On	1&2	Y	3	0	pt

4.2 查看固件版本

执行/opt/lsi/storcli/storcli /c<Controller ID> show all | grep Firmware 命令, <Controller ID>键入阵列卡编号, 本例 Controller ID 为 0。

本例回显固件版本为 4.680.00-8527。

注: ESXi 6.x 执行/opt/lsi/storcli/storcli /c<Controller ID> show all | grep Firmware 命令, ESXi 7.x 执行/opt/lsi/storcli/storcli64 /c<Controller ID> show all | grep Firmware 命令。

```
[root@localhost:~] /opt/lxi/storcli/storcli /c0 show all | grep Firmware
Firmware Package Build = 24.21.0-0132
Firmware Version = 4.680.00-8527
PD Firmware Download in progress = No
Support PD Firmware Download = No
```

此外，也可在 HDM Web 查看阵列卡固件版本。

The screenshot shows the HDM Web interface with the 'System Management' tab selected. In the 'Storage Management' section, there's a summary card with counts for cards (1), logical disks (0), and physical disks (3). Below this, under 'Logical View' and 'Physical View', it shows a RAID-LSI card with three physical disks labeled 'Front Physical Disk 0 (Unconfigured Good)', 'Front Physical Disk 1 (Unconfigured Good)', and 'Front Physical Disk 5 (Unconfigured Good)'. To the right, the 'RAID Card Information' panel displays details for the RAID-LSI card, including its vendor (Broadcom), model (RAID-LSI), and firmware version (4.680.00-8527, highlighted with a red box). Other fields shown include Package Version, Configuration Version, Serial Number, and WWN.

5. 通过命令执行固件更新

执行/opt/lxi/storcli/storcli /c<Controller ID> download file=<Filepath>命令，<Controller ID>键入阵列卡编号，本例 Controller ID 为 0，<Filepath>键入固件包路径及名称，本例 Filepath 为 /tmp/MR_4MB.rom。

注：ESXi 6.x 执行/opt/lxi/storcli/storcli /c<Controller ID> download file=<Filepath>命令，
ESXi 7.x 执行/opt/lxi/storcli/storcli64 /c<Controller ID> download file=<Filepath>命令。

```
[root@localhost:~] /opt/lxi/storcli/storcli /c0 download file=/tmp/MR_4MB.rom
Download Completed.
Flashing image to adapter...
CLI Version = 007.1912.0000.0000 Nov 23, 2021
Operating system = VMkernel 6.5.0
Controller = 0
Status = Success
Description = F/W Flash Completed. Please reboot the system for the changes to take effect
```

注：固件更新后需重启服务器才能生效。

6. 通过命令确认更新后固件版本

- ESXi 6.x 执行/opt/lxi/storcli/storcli /c<Controller ID> show all | grep Firmware
- ESXi 7.x 执行/opt/lxi/storcli/storcli64 /c<Controller ID> show all | grep Firmware

此外，也可在 HDM Web 查看阵列卡固件版本。

