

HPE Gen12 服务器 iLO7 中升级阵列卡固件

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一. 适用范围与注意事项

- 本文档旨在说明 HPE Gen12 系列服务器通过 iLO7 界面升级阵列卡固件方法。
- 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/218273>
- 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。

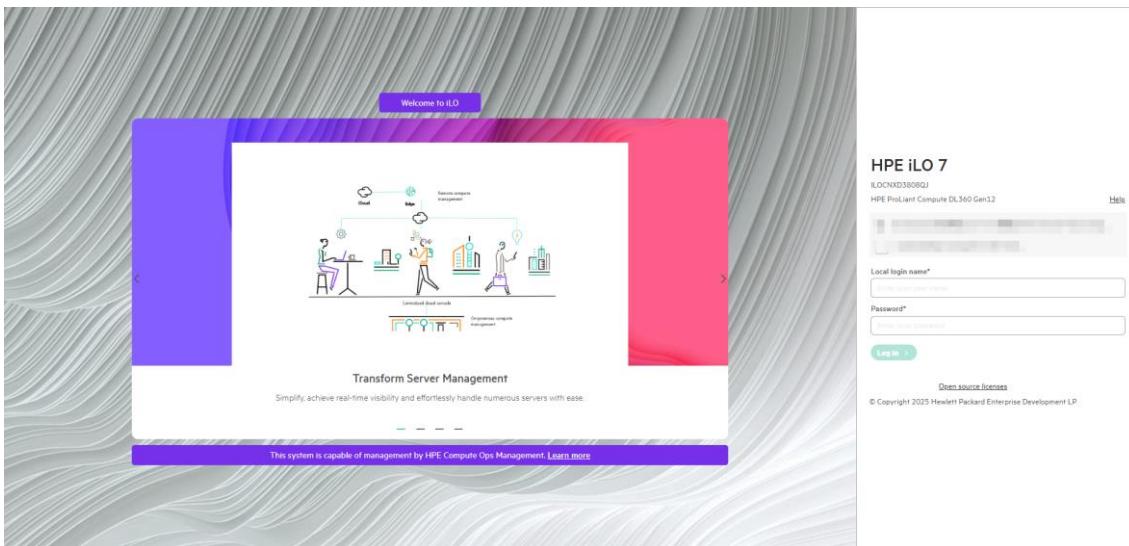
二. 升级准备

1. 固件获取
具体方法请参考: <https://zhiliao.h3c.com/Theme/details/216386>
2. 连接 iLO
具体方法请参考: <https://zhiliao.h3c.com/Theme/details/233627>

三. 升级步骤

1. 访问 iLO7

浏览器输入 iLO7 IP 地址访问 iLO，输入用户名和密码登录。



2. 通过 iLO7 检查固件更新前的版本

通过 iLO7 页面 **Firmware – Firmware Inventory** 查看对应型号阵列卡的固件版本。

Firmware Name	Firmware Version	Location
1.60TB 16.0G NVMe SSD	HPK5	Slot=14;Port=1;Box=1;Bay=8
1.60TB 16.0G NVMe SSD	HPK5	Slot=14;Port=1;Box=1;Bay=7
1.60TB 64.0G NVMe SSD	HPK5	Slot=14;Port=2;Box=2;Bay=2
2 SFF 24G x4NVMe/SAS UBM3 BC BP	1.24	Slot=14;Port=2;Box=2
300GB 12.0G SAS HDD	HPD5	Slot=14;Port=1;Box=1;Bay=1
300GB 12.0G SAS HDD	HPD5	Slot=14;Port=1;Box=1;Bay=3
300GB 12.0G SAS HDD	HPD5	Slot=14;Port=1;Box=1;Bay=2
7.68TB 22.5G SAS SSD	HPD2	Slot=14;Port=1;Box=1;Bay=5
7.68TB 22.5G SAS SSD	HPD2	Slot=14;Port=1;Box=1;Bay=4
7.68TB 22.5G SAS SSD	HPD2	Slot=14;Port=1;Box=1;Bay=6
7.68TB 22.5G SAS SSD	HPD2	Slot=14;Port=2;Box=2;Bay=1
8 SFF 24G x1NVMe/SAS UBM6 BC BP	1.04	Slot=14;Port=1;Box=1
8 SFF 24G x1NVMe/SAS UBM6 BC BP	1.04	Slot=14;Port=1;Box=1
BCM 5719 1Gb 4p BASE-T OCP Adptr	20.35.41	OCP Slot B
Broadcom P225p NetXtreme-E Dual-port 10Gb/25Gb Ethernet PCIe Adapter - NIC	233.1.135.7	PCI-E Slot 3
Embedded Video Controller	2.7	Embedded Device
HPE MR416i-o Gen11	52.32.3-6333	OCP Slot A
HPE Smart Storage Energy Pack 1 Firmware	0.70	Embedded Device
iLO 7	1.19.00 Dec 02 2025	System Board
Intelligent Platform Abstraction Data	2.14.0 Build 21	System Board
Intelligent Provisioning	5.03.5	System Board

注：其他固件信息也可在此页面查询。

3. 固件更新

3.1 下载固件

通过 [HPE 官网](#)搜索对应型号阵列卡的固件，可选择任意 Windows 系统，下载 fwPKG 固件文件。

The screenshot shows a search results page for Storage Controller firmware packages. The results table includes columns for Severity, Type | Subtype, Title, Version, and Environment. One row for the 'Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller' is highlighted with a red border.

Severity	Type Subtype	Title	Version	Environment
▲ Firmware Storage Controller	Firmware Package - HPE Gen12 Boot Controller NS204i-a, HPE Gen11 Boot Controller NS204i-v, NS204i-d and HPE Gen10 Plus Boot Controller NS204i-u, NS204i-t, NS204i-r	1.2.14.1025	Windows	
▲ Firmware Storage Controller	Firmware Package - HPE Smart Array P408i-a, P408e-a, P408i-c, E208i-a, E208e-a, P208i-a, P416i-m and P916i-a SR Gen10 and SR308i-a SR308i-a Gen11 controllers	7.81	Windows	
▲ Firmware Storage Controller	Firmware Package - HPE MR216i-o Gen11 Tri Mode Controller	52.32.3-6333	Windows	
▲ Firmware Storage Controller	Firmware Package - HPE MR408i-a Gen11 Tri Mode Controller	52.32.3-6333	Windows	
▲ Firmware Storage Controller	Firmware Package - HPE MR416i-a Gen11 Tri Mode Controller	52.32.3-6333	Windows	
▲ Firmware Storage Controller	Firmware Package - HPE MR216i-a Gen11 Tri Mode Controller	52.32.3-6333	Windows	
▲ Firmware Storage Controller	Firmware Package - HPE MR408i-a Gen11 Tri Mode Controller	52.32.3-6333	Windows	
▲ Firmware Storage Controller	Firmware Package - HPE MR416i-a Gen11 Tri Mode Controller	52.32.3-6333	Windows	
▲ Firmware Storage Controller	Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller	52.32.3-6333	Windows	
▲ Firmware Storage Controller	Firmware Package - HPE MR416i-a Gen11 Tri Mode Controller	52.32.3-6333	Windows	

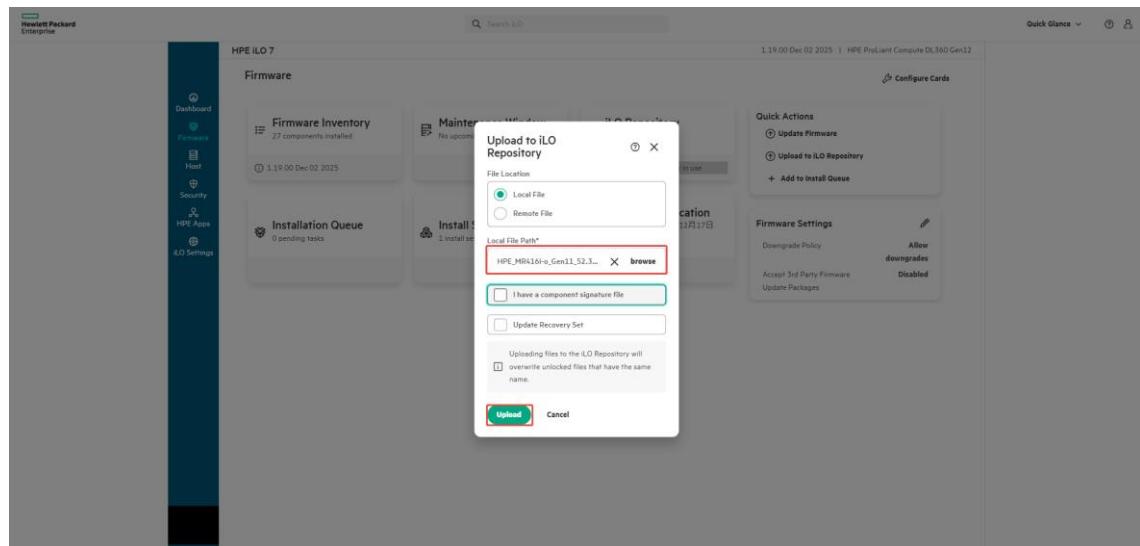
The screenshot shows the download details for the 'Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller'. The package is selected and ready to be downloaded. The download link is: [HPE_MR416i-o_Gen11_52.32.3-6118_A.tkg](#).

3.2 将固件挂载到 iLO 并开始更新

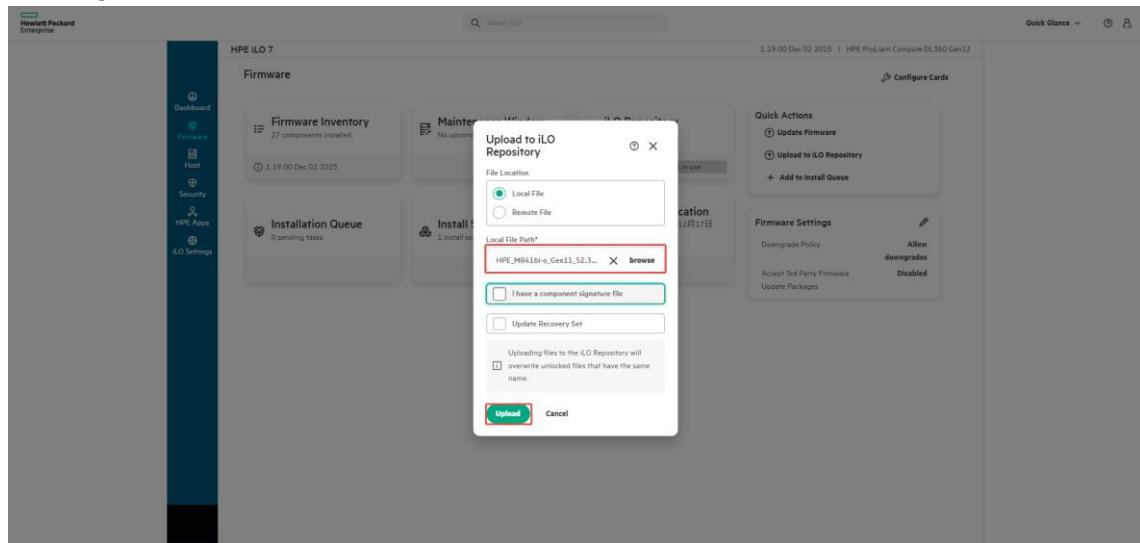
1) 通过浏览器登录 iLO7，在 Firmware 页面选择 Upload to iLO Repository。

The screenshot shows the HPE iLO7 Firmware interface. The 'Upload to iLO Repository' button is highlighted with a red border in the Quick Actions section. Other visible sections include Firmware Inventory, Maintenance Window, iLO Repository, Installation Queue, Install Sets, and Firmware Verification.

2) 选择 **Local file**, 将已保存至本地的固件文件挂载到 **Local file 选择文件处**。

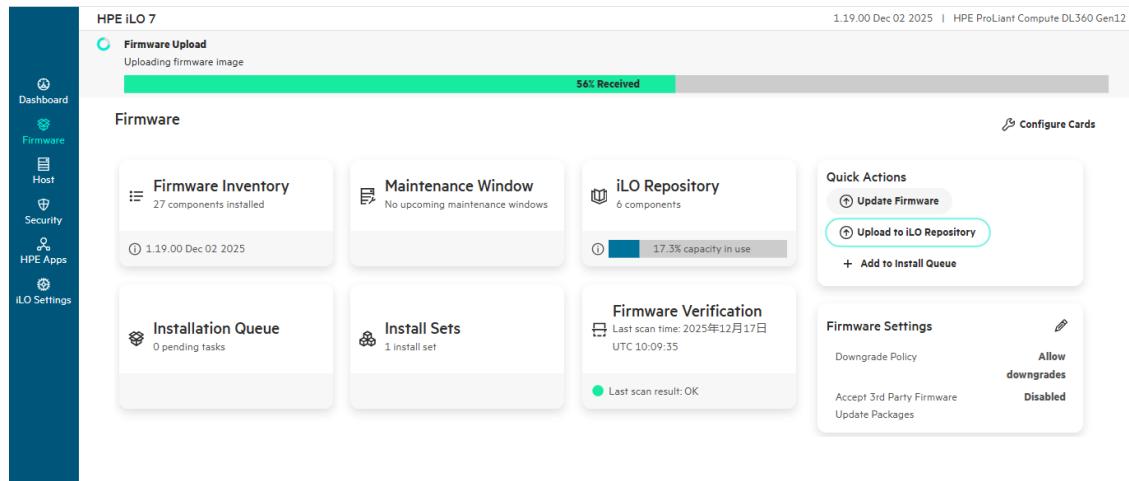


3) 点击 **Upload**, 阅读上传提示, 确认无误后点击 **OK** 即开始上载与更新固件。

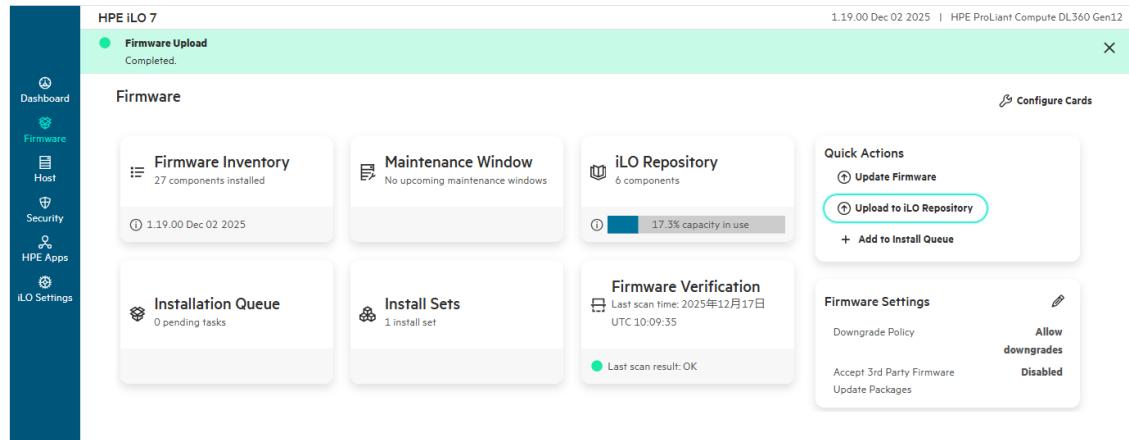


注: 上图提示内容为“将文件上载到 iLO 存储库将覆盖具有相同名称的未锁定文件。是否继续?”。

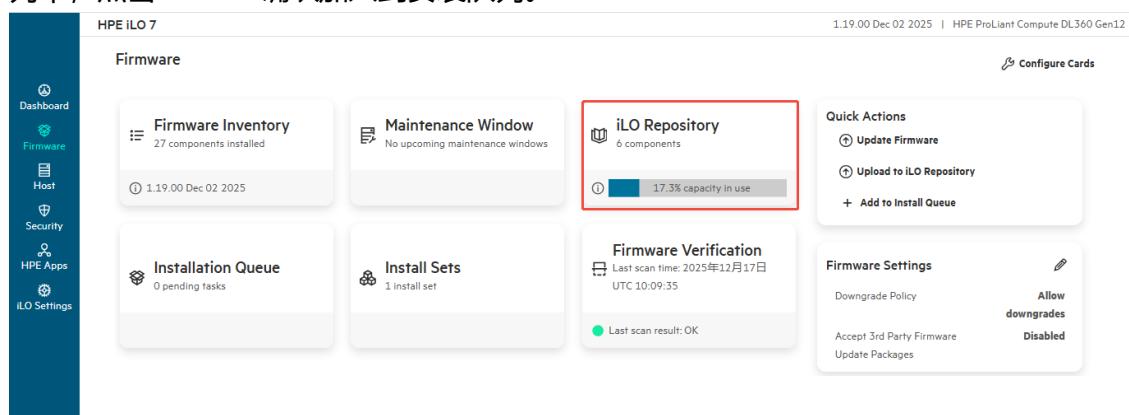
4) 正在上载固件。

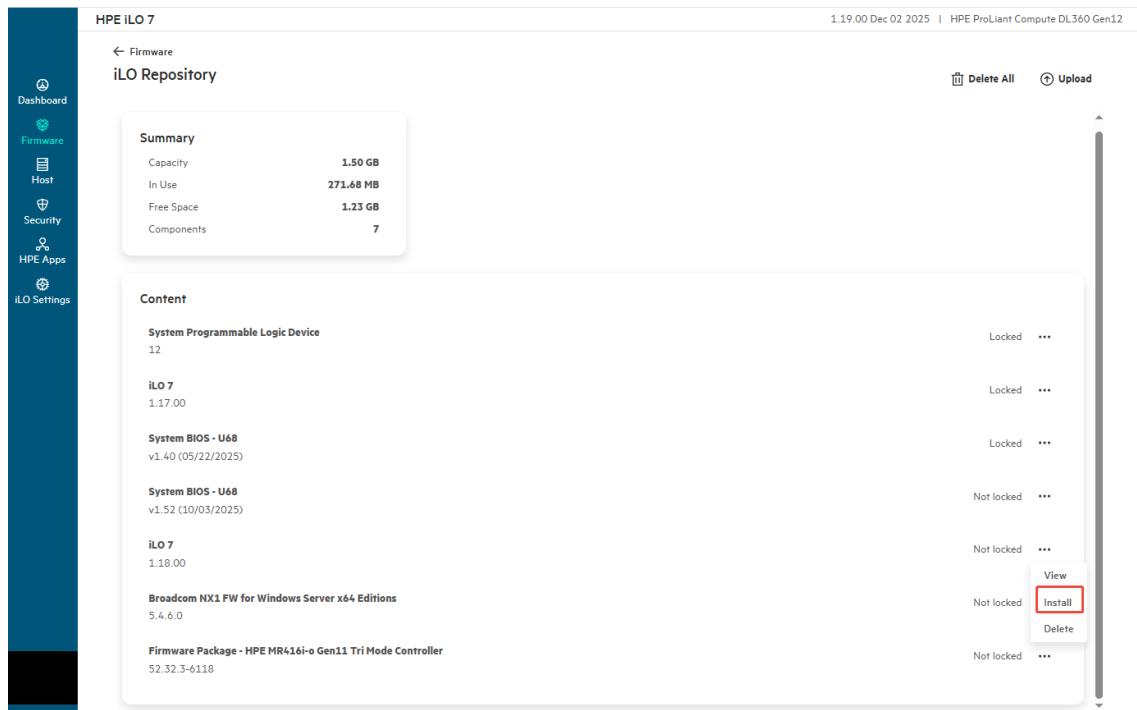


5) 上载完成后，将弹出“Firmware Upload Completed”提示。



6) 在 Firmware 页面选择 iLO Repository，将 iLO 存储库中的阵列卡安装组件添加到安装队列中，点击 Install 确认加入到安装队列。





HPE iLO 7

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iLO Repository

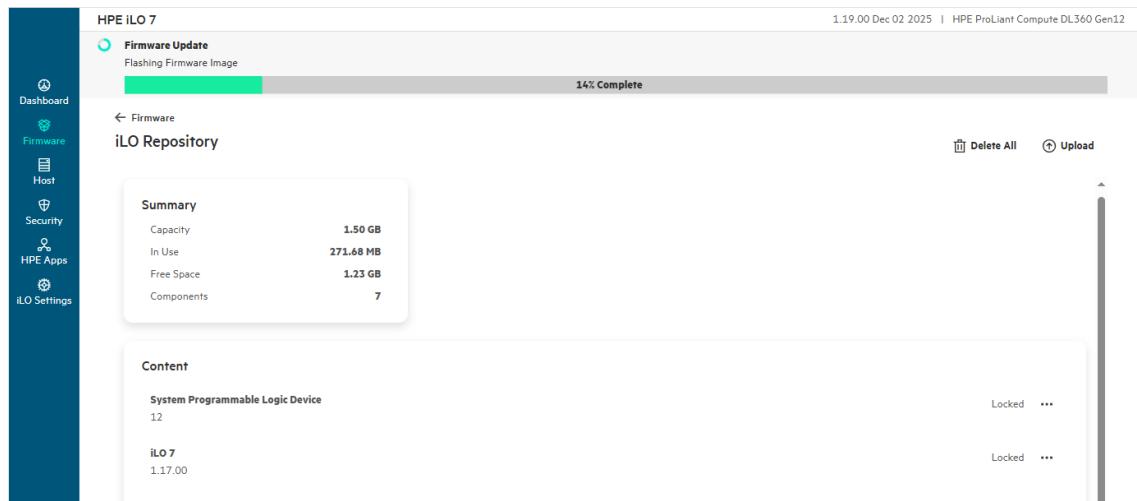
Summary

Capacity	1.50 GB
In Use	271.68 MB
Free Space	1.23 GB
Components	7

Content

- System Programmable Logic Device 12 Locked ...
- iLO 7 1.17.00 Locked ...
- System BIOS - U68 v1.40 (05/22/2025) Locked ...
- System BIOS - U68 v1.52 (10/03/2025) Not locked ...
- iLO 7 1.18.00 Not locked ...
- Broadcom NX1 FW for Windows Server x64 Editions 5.4.6.0 Not locked ...
- Firmware Package - HPE MR416i-o Gen11 Tri Mode Controller 52.32.3-6118 Not locked ...

7) 正在更新固件。



HPE iLO 7

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Firmware Update

Flashing Firmware Image

14% Complete

iLO Repository

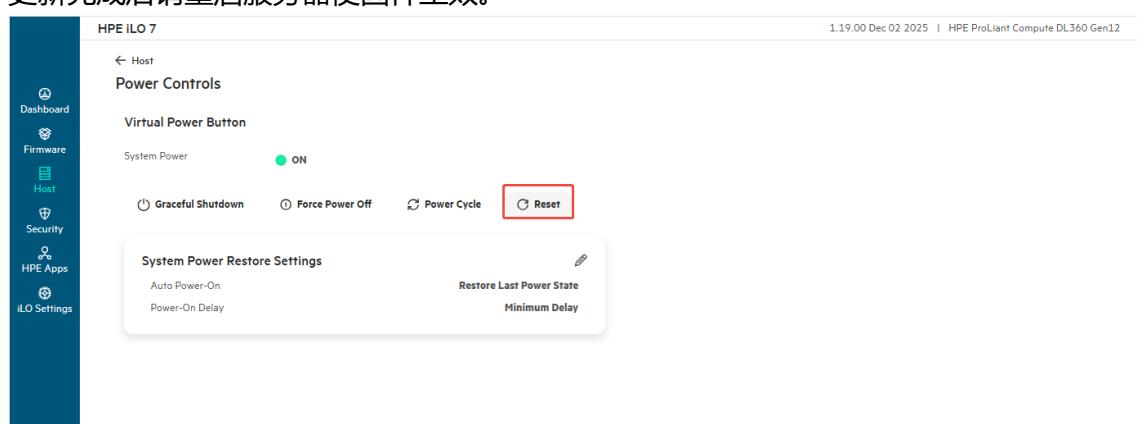
Summary

Capacity	1.50 GB
In Use	271.68 MB
Free Space	1.23 GB
Components	7

Content

- System Programmable Logic Device 12 Locked ...
- iLO 7 1.17.00 Locked ...
- System BIOS - U68 ...

8) 更新完成后请重启服务器使固件生效。



HPE iLO 7

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Power Controls

Virtual Power Button

System Power ON

Graceful Shutdown Force Power Off Power Cycle Reset

System Power Restore Settings

Auto Power-On	Restore Last Power State
Power-On Delay	Minimum Delay

4. 检查固件更新后的版本

与本文<[2.通过 iLO7 检查固件更新前的版本](#)>方法一致，完成更新后可到 iLO7 相应页面查看更新后的固件版本，以验证更新是否成功。