

# HPE Gen10 Plus & Gen10 服务器

## iLO5 中通过 iLO 联合批量升级 iLO 固件

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### 一. 适用范围与注意事项

- 本文档旨在说明 HPE Gen10 Plus & Gen10 系列服务器通过 iLO5 Federation 界面批量升级 iLO 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

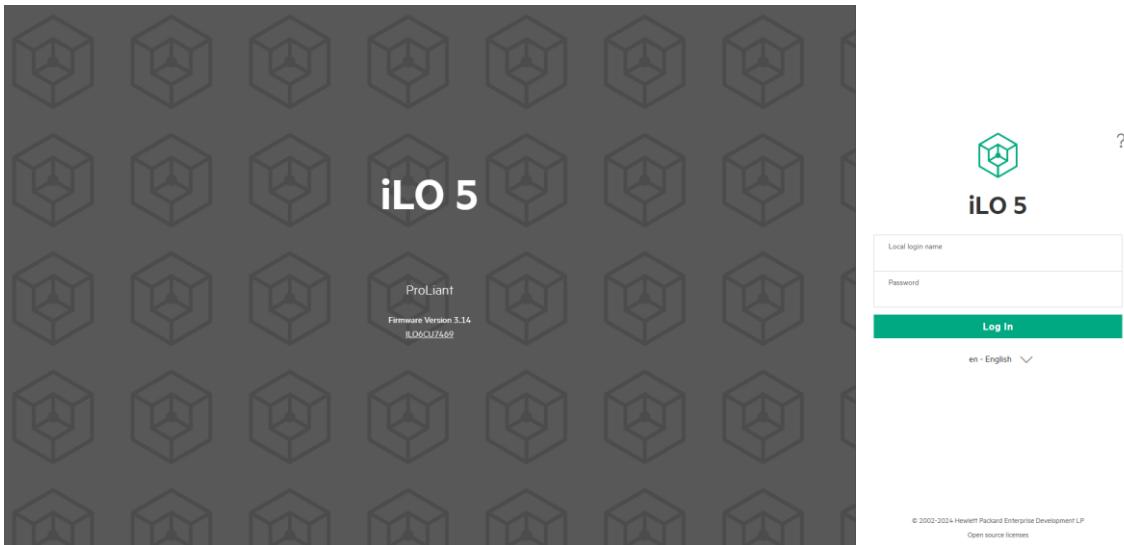
具体方法请参考：<https://zhiliaoh3c.com/Theme/details/216386>

## 2. 连接 iLO5

具体方法请参考：<https://zhiliaoh3c.com/Theme/details/216337>

## 三. 升级步骤

### 1. 访问 iLO5

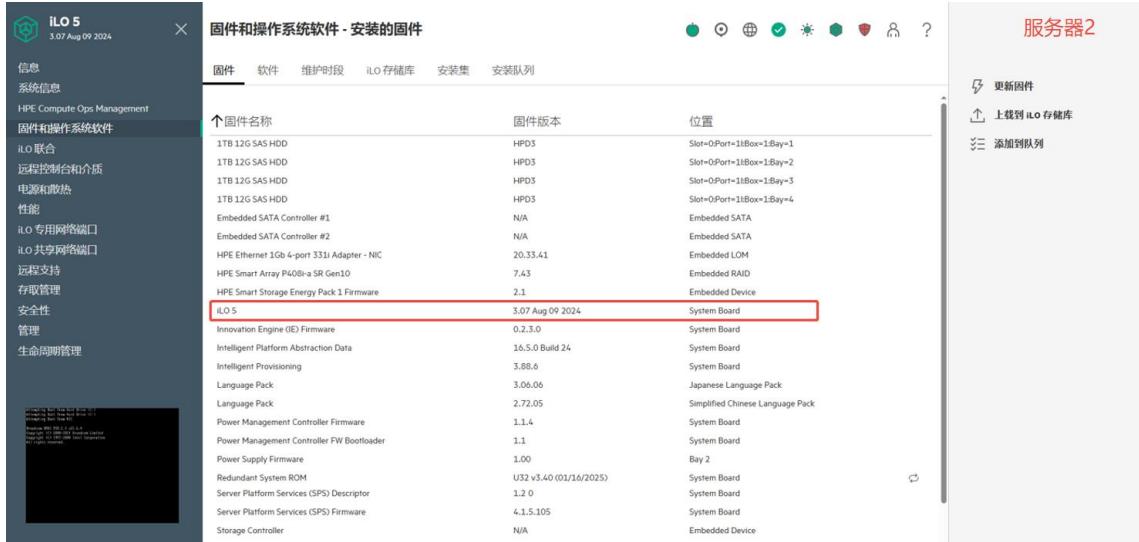


### 2. 通过 iLO5 检查固件更新前的版本

通过 iLO5 页面 **Firmware & OS Software - Installed Firmware** 查看 iLO5 的固件版本。

本文以批量升级两台服务器为例。

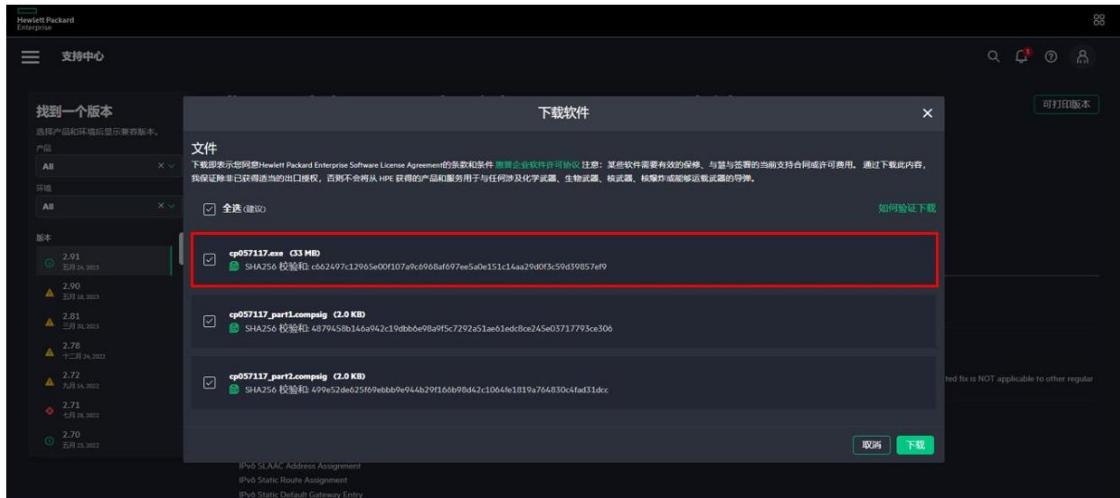
| Firmware Name                              | Firmware Version        | Location                         |
|--|-------------------------|----------------------------------|
| Embedded SATA Controller #1                | N/A                     | Embedded SATA                    |
| Embedded SATA Controller #2                | N/A                     | Embedded SATA                    |
| HPE Ethernet 1Gb 4-port 331i Adapter - NIC | 20.24.41                | Embedded LOM                     |
| HPE Smart Array P408-a SR Gen10            | 7.11                    | Embedded RAID                    |
| HPE Smart Array S100x SR Gen10             | 2.04-0                  | Embedded Device                  |
| HPE Smart Storage Energy Pack 1 Firmware   | 0.60                    | Embedded Device                  |
| HPE SN1600Q 32Gb 2p FC HBA                 | 2.04.01                 | PCI-E Slot 1                     |
| <b>iLO 5</b>                               | <b>3.01 Jan 23 2024</b> | System Board                     |
| Innovation Engine (IED) Firmware           | 0.2.3.0                 | System Board                     |
| Intelligent Platform Abstraction Data      | 16.5.0 Build 24         | System Board                     |
| Intelligent Provisioning                   | 3.89.4                  | System Board                     |
| Language Pack                              | 2.72.05                 | Simplified Chinese Language Pack |
| Power Management Controller Firmware       | 1.1.4                   | System Board                     |
| Power Management Controller FW Bootloader  | 1.1                     | System Board                     |
| Power Supply Firmware                      | 1.00                    | Bay 1                            |
| Power Supply Firmware                      | 1.00                    | Bay 2                            |
| Redundant System ROM                       | U32 v2.76 (02/09/2023)  | System Board                     |
| Server Platform Services (SPS) Descriptor  | 1.2.0                   | System Board                     |
| Server Platform Services (SPS) Firmware    | 4.1.5.2                 | System Board                     |
| System Programmable Logic Device           | 0x2E                    | System Board                     |
| System ROM                                 | U32 v3.10 (02/22/2024)  | System Board                     |



### 3. 通过 iLO 联合更新 iLO 固件

#### 3.1 下载与解压固件

- 1) 通过 [HPE 官网](#) 搜索对应服务器的 iLO 固件，可选择任意 Windows Server 系统，下载 exe 固件文件。



- 2) 将 exe 文件解压缩，获取 xxx.bin 文件。

|                   |                 |                    |           |
|-------------------|-----------------|--------------------|-----------|
| cp066993          | 2025/7/7 8:55   | 文件夹                |           |
| cp066993.exe      | 2025/6/27 10:33 | 应用程序               | 33,458 KB |
| cp057117.xml      | 2025/6/16 10:30 | Microsoft Edge ... | 239 KB    |
| cpqsetup.exe      | 2018/8/1 17:34  | 应用程序               | 175 KB    |
| ilo5_314.bin      | 2025/6/16 9:50  | BIN 文件             | 32,771 KB |
| LICENSE.txt       | 2024/8/2 10:55  | 文本文档               | 10 KB     |
| payload.json      | 2025/6/16 10:30 | JSON 文件            | 3 KB      |
| readme.txt        | 2025/6/16 9:50  | 文本文档               | 3 KB      |
| SecureFlash64.dll | 2024/8/2 11:00  | 应用程序扩展             | 539 KB    |

### 3.2 在 iLO 联合中配置 Group

1) 在第一台服务器的 **iLO Federation (iLO 联合)** 中点击 **Join Group (加入组)**。

The screenshot shows the 'iLO Federation - Setup' interface. On the left is a sidebar with various navigation options. The main area is titled 'Group Membership for this iLO' and displays a message: 'There are no configured groups.' Below this are two buttons: 'Join Group' (highlighted with a red box), 'Edit', and 'Delete'. Underneath is a section titled 'Multicast Options' containing several configuration fields, including checkboxes for 'ILO Federation Management' and 'Multicast Discovery', and dropdowns for 'Multicast Announcement Interval (seconds/minutes)', 'IPv6 Multicast Scope Site', and 'Multicast Time To Live (TTL)'. At the bottom is an 'Apply' button.

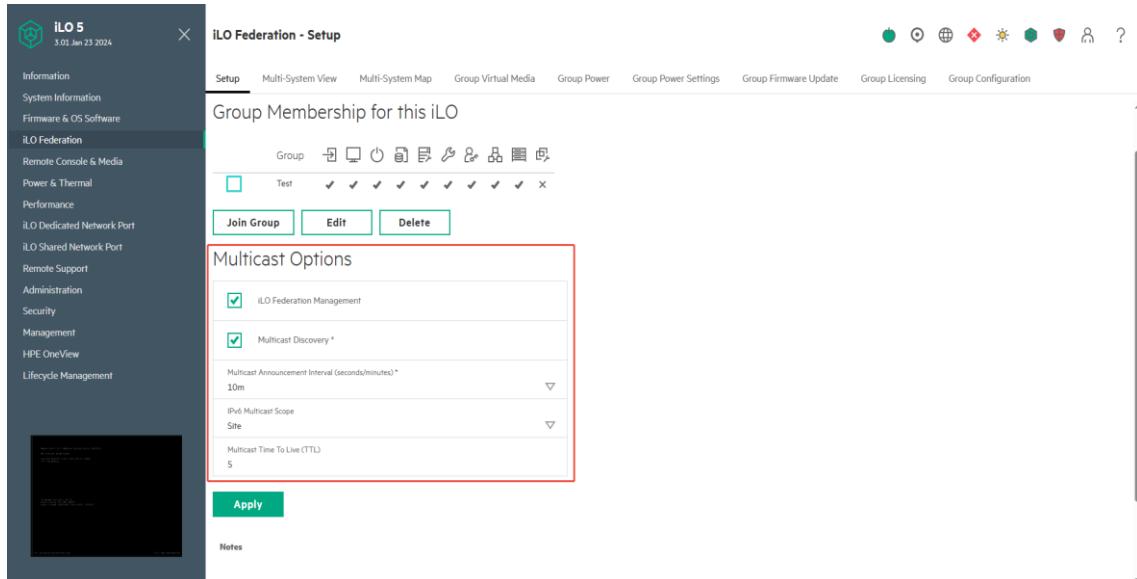
2) 设置 **Group Name (组名)** 及 **Group Key (组密码)**。

This screenshot shows the same 'iLO Federation - Setup' interface as the previous one, but with additional input fields filled in. The 'Group Name' field contains 'Test', and the 'Group Key' field contains '\*\*\*\*\*'. Below these fields is a 'Group Key Confirm\*' field with the same value. To the right is a 'Group Permissions' section with a list of checkboxes for various iLO functions, all of which are checked. A red box highlights the 'Join Group' button at the bottom.

3) 勾选组权限，并点击 **Join Group (加入组)**。

This screenshot shows the final step of the process. The 'Group Name' and 'Group Key' fields are identical to the previous screenshot. The 'Group Permissions' section shows that all checkboxes under 'select all' are checked. A red box highlights the 'Join Group' button at the bottom of the page.

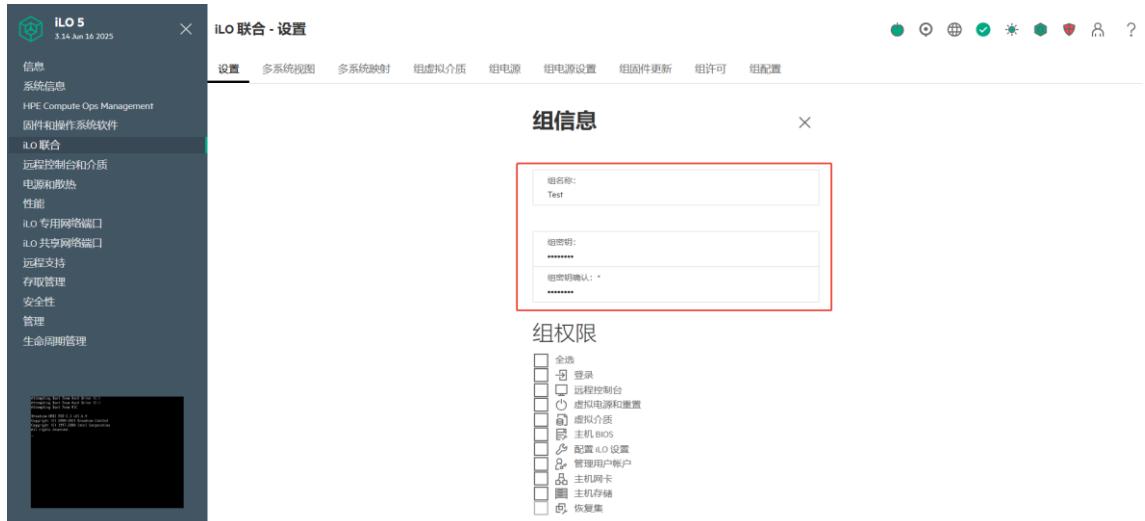
4) 设置 **Multicast Options (多播选项)** (如无特殊要求, 保持默认即可)。



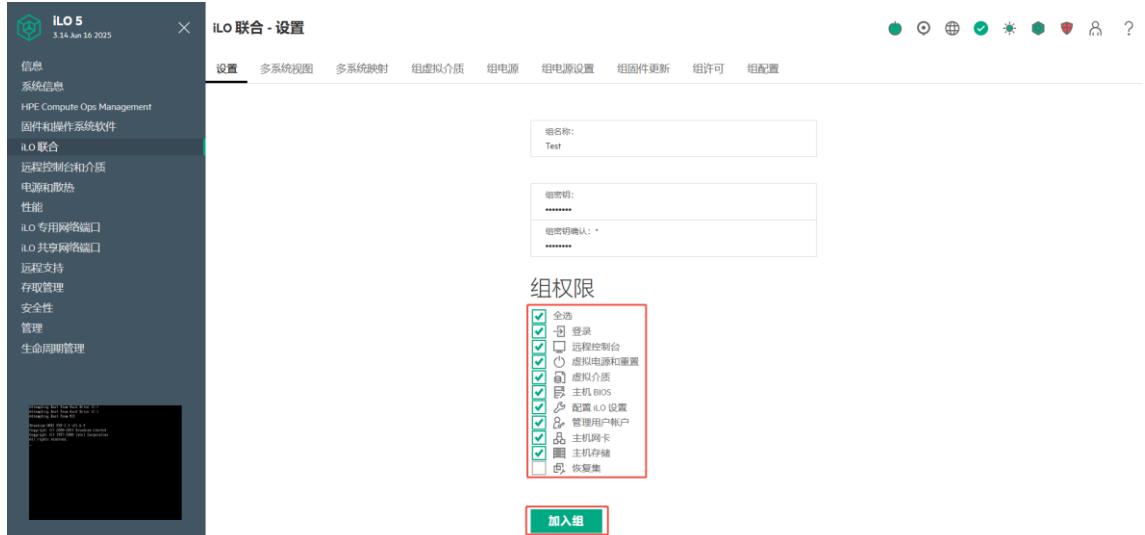
5) 登录其他需要升级的服务器的 iLO 界面, 通过 **iLO Federation (iLO 联合) - Join Group (加入组)**, 将其也加入相同的 Group。



6) 输入相同的组信息。



7) 勾选对应的组权限并点击加入组。

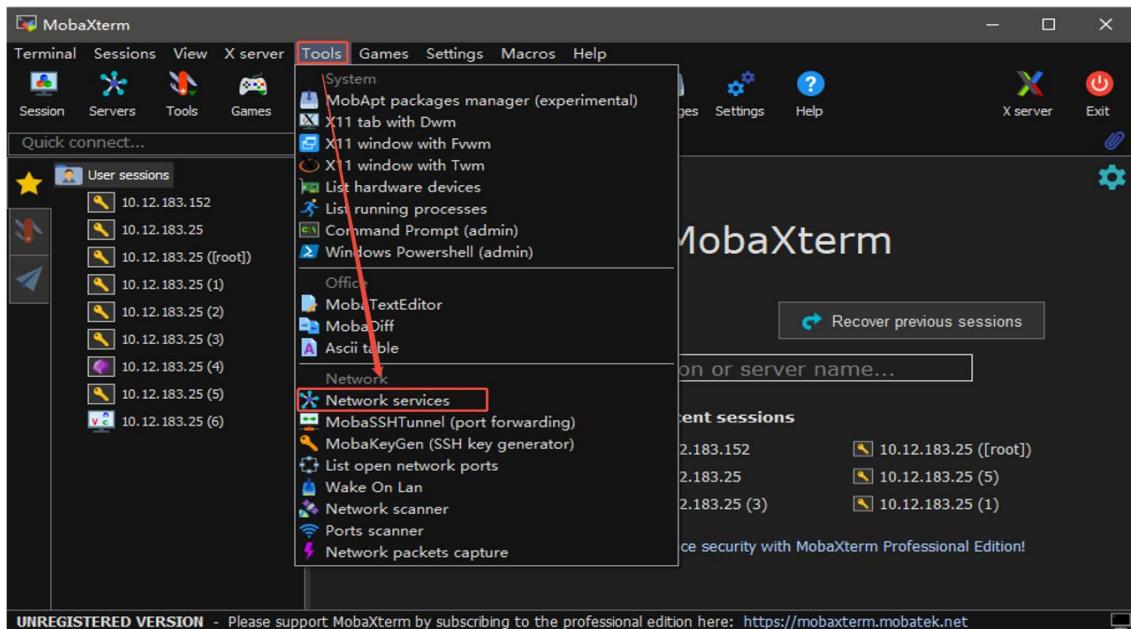


8) 同样设置 Multicast Options (多播选项) (如无特殊要求, 保持默认即可)。



### 3.3 设置 Web 服务器 (以使用第三方 MobaXterm 为例)

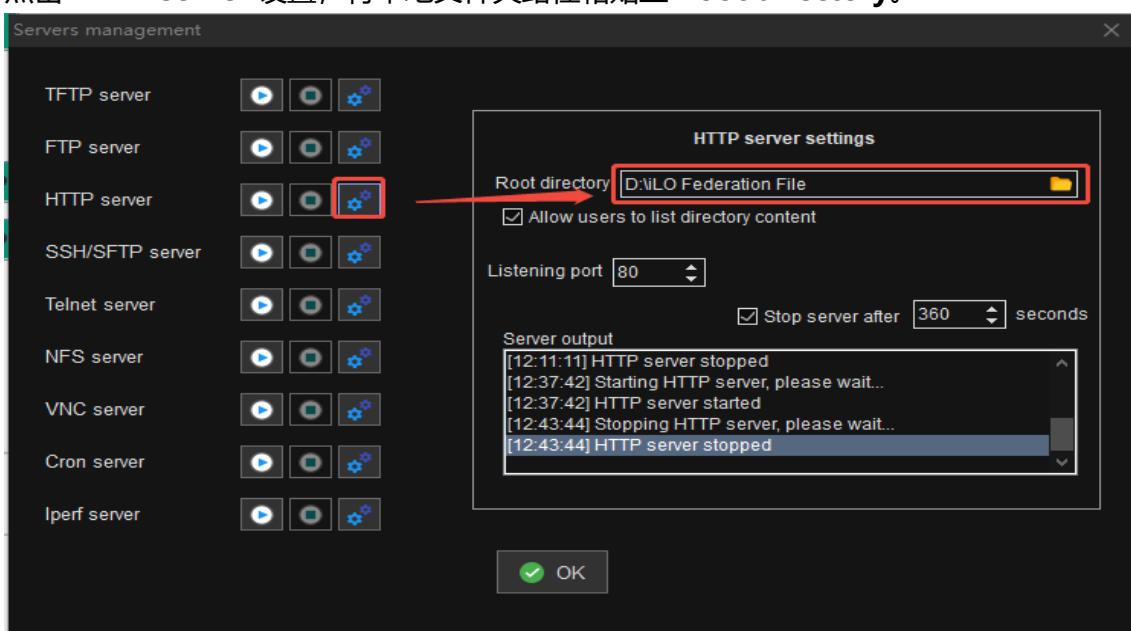
#### 1) 打开 Tools 中的 Network services 工具。



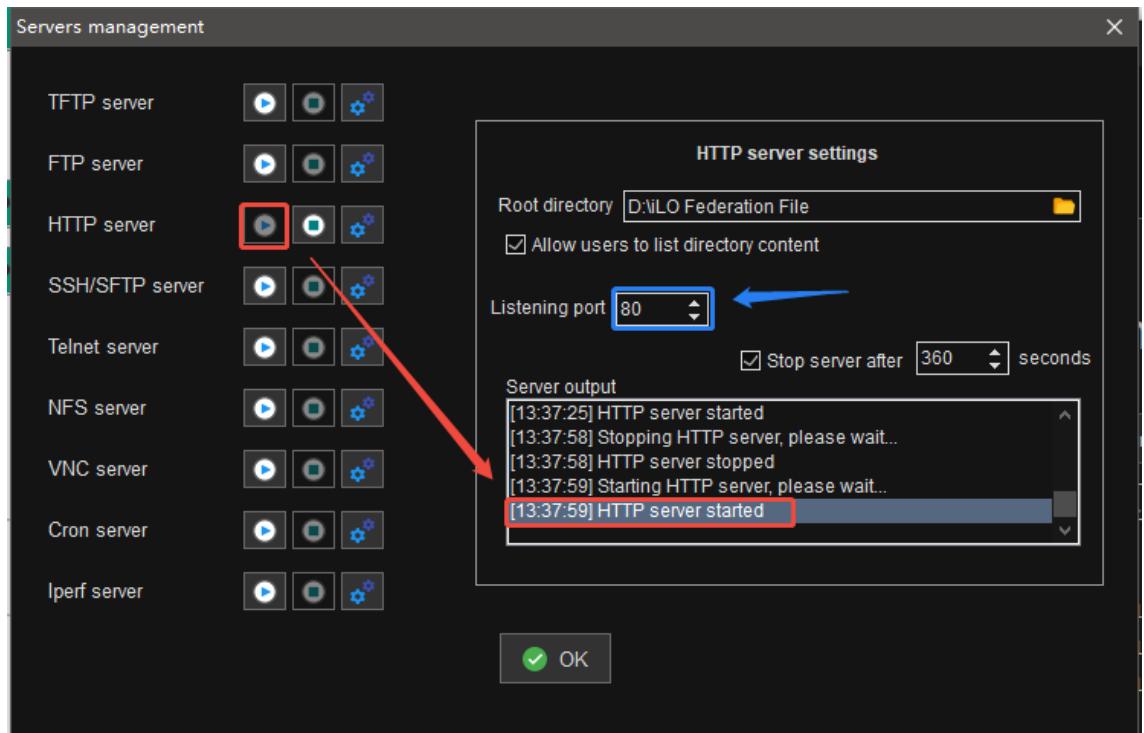
#### 2) Network services 工具可以将本地文件夹作为 Web 服务器使用。复制要作为 Web 服务 器使用的本地文件夹路径。



#### 3) 点击 HTTP server 设置, 将本地文件夹路径粘贴至 Root directory。



4) 点击开始，Web 服务器启动。



5) 将要升级的固件文件放入本地 Web 服务器路径下。

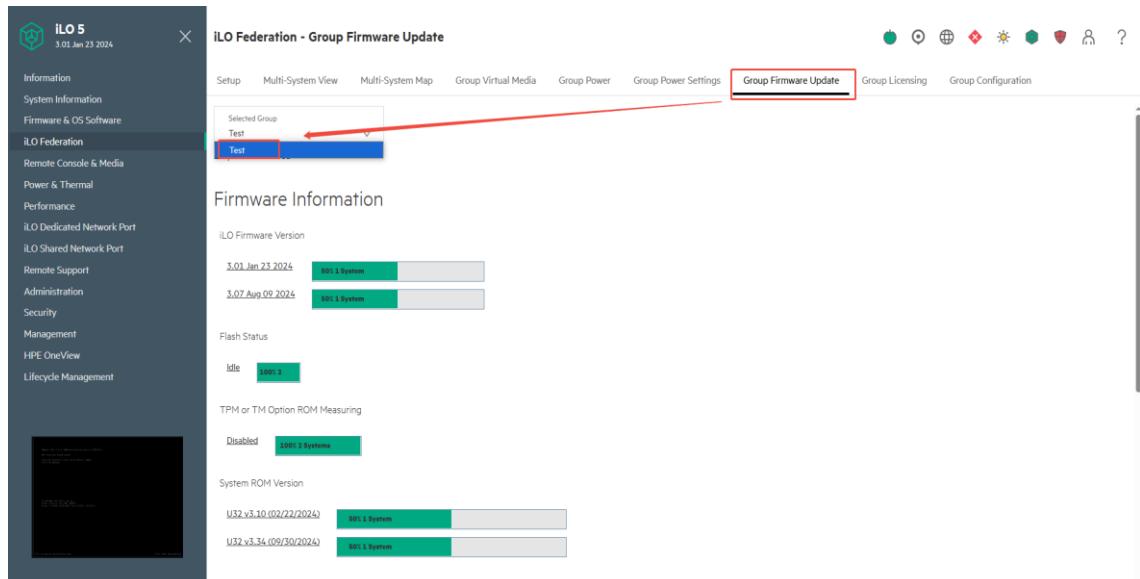


6) 查看本机 IP 地址。

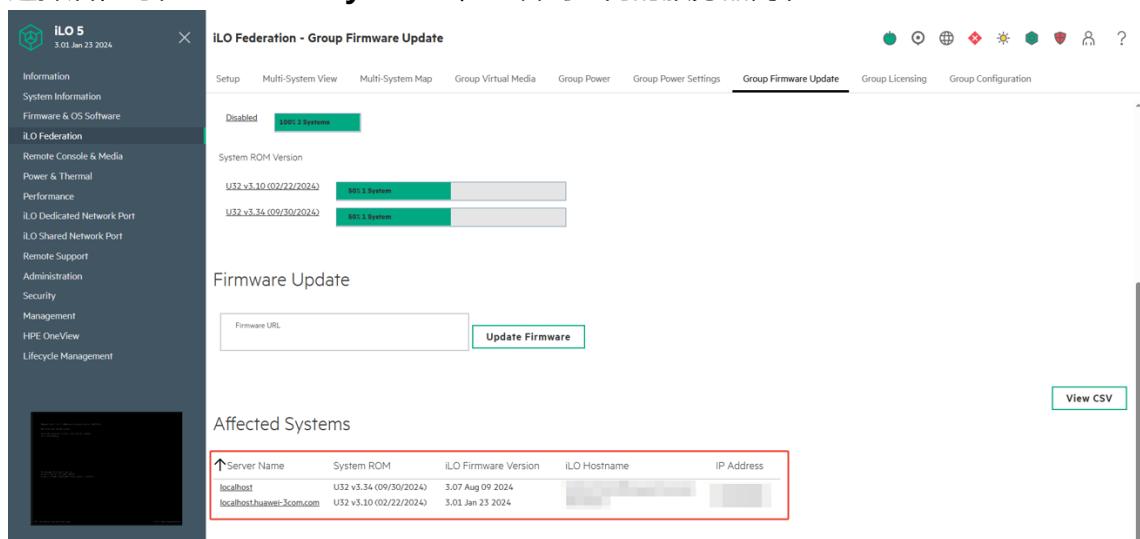


### 3.4 在 iLO 联合中更新 iLO 固件

1) 在 **iLO Federation - Group Firmware Update - Selected Group** 中选择已加入的 Group。



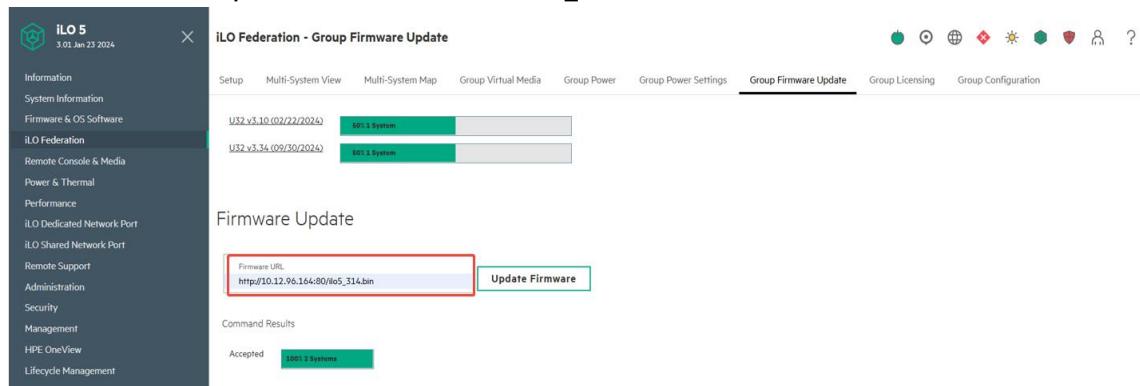
2) 选择后，可在 **Affected Systems** 位置看到组内的服务器列表。



3) 在 **Firmware URL** 中输入 Web 服务器上的 URL。

要输入的 URL 类似于以下形式: `http://<web 服务器地址/<.bin 文件所在路径>`

本文举例如下 `http://10.12.96.164:80/ilo5_314.bin`



4) 输入 URL 后，点击 **Update Firmware** 开始更新。

The screenshot shows the 'Firmware Update' section of the iLO Federation interface. It displays two servers: 'localhost' and 'localhosthuawei.com'. Both servers are currently at version 'U32 v3.34 (09/30/2024)'. A red box highlights the 'Update Firmware' button, which is located next to the 'Firmware URL' input field containing the URL 'http://10.12.96.164:80/iLo5\_314.bin'. Below the update button, a command result 'Accepted' is shown for '100% 2 Systems'. The 'Affected Systems' table lists the two servers again with their new target versions: 'U32 v3.34 (09/30/2024)'.

5) 查看两台服务器均在更新中。

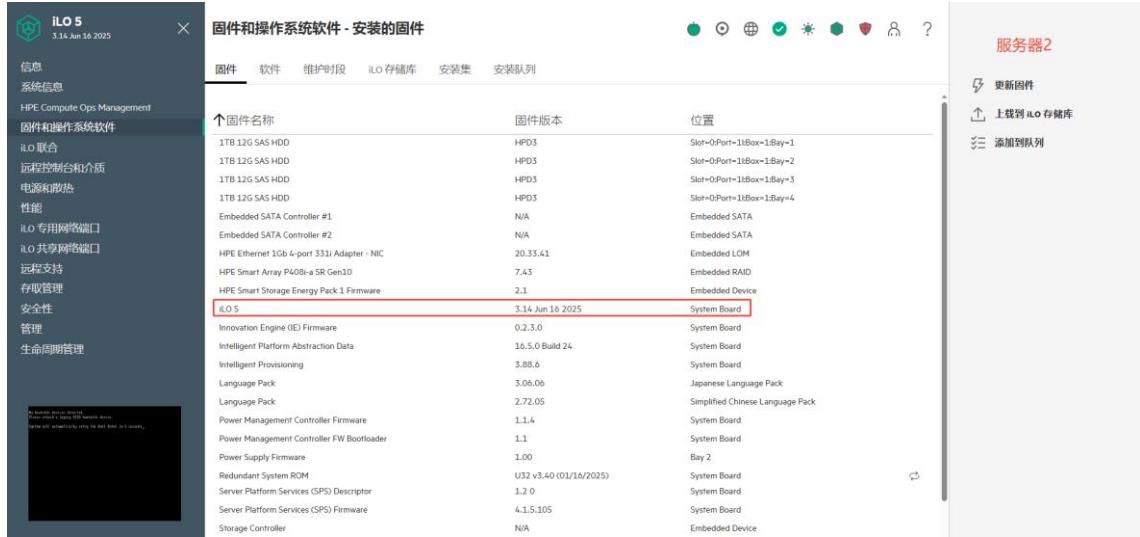
The screenshot shows the 'Firmware Information' section of the iLO Federation interface. It displays the same two servers ('localhost' and 'localhosthuawei.com') with their ILO Firmware Version set to '3.01 Jan 23 2024'. A red box highlights a progress bar indicating '29% complete' for the 'Flashing Firmware Image, please wait ...' task. The 'Affected Systems' table shows the servers are now at 'U32 v3.34 (09/30/2024)'. The 'Flash Status' section shows 'Uploading' for '100% 2 Systems'.

The screenshot shows the iLO 5 interface with the title "iLO 联合 - 组固件更新". The progress bar indicates "正在刷写固件数据, 请稍候..." (Firmware data is being written, please wait...) at 87% completion.

## 6) 更新完成。

The screenshot shows the iLO 5 interface with the title "iLO Federation - Group Firmware Update". A message box states "Firmware Update Completed." and "Please wait - ILO is being reset with new changes. You will automatically be redirected to the login page in a few seconds. If an SSL error message is displayed, please restart your browser and re-login."

| Firmware Name                              | Firmware Version        | Location                         |
|--|-------------------------|----------------------------------|
| Embedded SATA Controller #1                | N/A                     | Embedded SATA                    |
| Embedded SATA Controller #2                | N/A                     | Embedded SATA                    |
| HPE Ethernet 1Gb 4-port 331i Adapter - NIC | 20.24.41                | Embedded LOM                     |
| HPE Smart Array P408-a SR Gen10            | 7.11                    | Embedded RAID                    |
| HPE Smart Array S1000 SR Gen10             | 2.04-0                  | Embedded Device                  |
| HPE Smart Storage Energy Pack 1 Firmware   | 0.60                    | Embedded Device                  |
| HPE SN1600Q 32Gb Zp FC HBA                 | 2.04.01                 | PCI-E Slot 1                     |
| <b>iLO 5</b>                               | <b>3.14 Jun 16 2025</b> | <b>System Board</b>              |
| Innovation Engine (EI) Firmware            | 0.2.3.0                 | System Board                     |
| Intelligent Platform Abstraction Data      | 16.5.0 Build 24         | System Board                     |
| Intelligent Provisioning                   | 3.89.4                  | System Board                     |
| Language Pack                              | 2.72.05                 | Simplified Chinese Language Pack |
| Power Management Controller Firmware       | 1.1.4                   | System Board                     |
| Power Management Controller FW Bootloader  | 1.1                     | System Board                     |
| Power Supply Firmware                      | 1.00                    | Bay 1                            |
| Power Supply Firmware                      | 1.00                    | Bay 2                            |
| Redundant System ROM                       | U32 v2.76 (02/09/2023)  | System Board                     |
| Server Platform Services (SPS) Descriptor  | 1.2.0                   | System Board                     |
| Server Platform Services (SPS) Firmware    | 4.1.5.2                 | System Board                     |
| System Programmable Logic Device           | 0x2E                    | System Board                     |
| System ROM                                 | U32 v3.10 (02/22/2024)  | System Board                     |



| 固件名称                                       | 固件版本                    | 位置                               |
|--|-------------------------|----------------------------------|
| 1TB 12G SAS HDD                            | HPD3                    | Slot=>Port=>1Box=>1Bay=>1        |
| 1TB 12G SAS HDD                            | HPD3                    | Slot=>Port=>1Box=>1Bay=>2        |
| 1TB 12G SAS HDD                            | HPD3                    | Slot=>Port=>1Box=>1Bay=>3        |
| 1TB 12G SAS HDD                            | HPD3                    | Slot=>Port=>1Box=>1Bay=>4        |
| Embedded SATA Controller #1                | N/A                     | Embedded SATA                    |
| Embedded SATA Controller #2                | N/A                     | Embedded SATA                    |
| HPE Ethernet 1Gb 4-port 331i Adapter - NIC | 20.33.41                | Embedded LOM                     |
| HPE Smart Array P408i-a SR Gen10           | 7.43                    | Embedded RAID                    |
| HPE Smart Storage Energy Pack 1 Firmware   | 2.1                     | Embedded Device                  |
| <b>iLO 5</b>                               | <b>3.14 Jun 16 2025</b> | <b>System Board</b>              |
| Innovation Engine (IE) Firmware            | 0.2.3.0                 | System Board                     |
| Intelligent Platform Abstraction Data      | 16.5.0 Build 24         | System Board                     |
| Intelligent Provisioning                   | 3.88.6                  | System Board                     |
| Language Pack                              | 3.06.06                 | Japanese Language Pack           |
| Language Pack                              | 2.72.05                 | Simplified Chinese Language Pack |
| Power Management Controller Firmware       | 1.1.4                   | System Board                     |
| Power Management Controller FW Bootloader  | 1.1                     | System Board                     |
| Power Supply Firmware                      | 1.00                    | Bay 2                            |
| Redundant System ROM                       | U32 v3.40 (01/16/2025)  | System Board                     |
| Server Platform Services (SPS) Descriptor  | 1.2.0                   | System Board                     |
| Server Platform Services (SPS) Firmware    | 4.1.5.105               | System Board                     |
| Storage Controller                         | N/A                     | Embedded Device                  |

#### 4. 通过 iLO5 检查固件更新后的版本

与本文<[2.通过 iLO5 检查固件更新前的版本](#)>方法一致，完成更新后可到 iLO5 相应页面查看更新后的固件版本，以验证更新是否成功。