

HPE Gen11 服务器通过 U 盘引导 安装 Ubuntu 24.04 系统的安装方法

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一. 适用范围与注意事项

- ➤ 本文档旨在说明 HPE Gen11 系列服务器通过 U 盘引导安装系统的方法,并以 DL380 Gen11 服务器安装 Ubuntu 24.04 为例进行安装步骤说明。
 - 安装过程中您可能需要借助其他工具完成部分操作。如需了解详细介绍,请参考本文档 < 安装准备 > 的内容查看。
- ➤ 本文所述安装过程基于 iLO Advanced License, 若您的 iLO 尚未购买高级授权,请联系经销商购买并在激活后使用。若您曾添加试用版授权且已超过 60 天试用期,则该主机将无法再次添加试用版授权,本文的安装方法也将不适用。
- ➤ 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/218270
- ▶ 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. 安装准备

1. 系统兼容性查询

具体确认方法请参考: https://zhiliao.h3c.com/Theme/details/216161

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2. 系统安装介质获取

具体方法请参考: https://zhiliao.h3c.com/Theme/details/216393

3. 阵列配置

如果有配置阵列的需求,请在阵列配置完成后再安装系统。

具体阵列配置方法请参考: https://zhiliao.h3c.com/Theme/details/218271

4. 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. 安装步骤

1. 挂安装启动 U 盘

服务器通常默认配置多个 USB 接口,对外接口一般位于前后两侧面板。下图以 2U 服务器为例,可在右侧挂耳附近看到 USB 接口。

请将已制作完成的启动 U 盘插入服务器 USB 接口, 然后参考下一步继续。

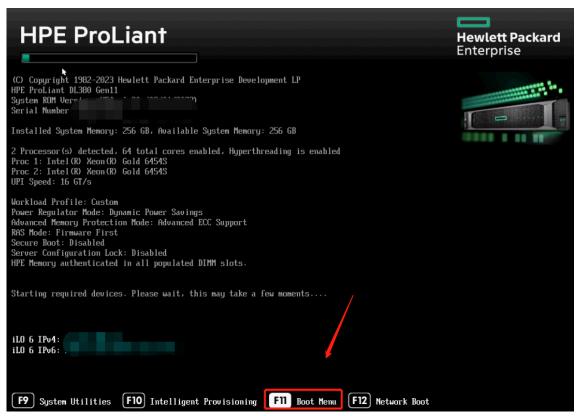


注:请勿将启动U盘连接到虚框标识的iLO USB 服务接口。引导U盘的可用接口标识为+、和 ss、

- 2. 引导系统安装
 - 2.1 在开机自检界面按下 F11, 选择启动项。

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2.2 进入到一次性启动菜单,选择 iLO Virtual USB CD-ROM。



2.3 选择 Try or Install Ubuntu。

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```
GNU GRUB version 2.12
*Try or Install Ubuntu Server
Boot from next volume
UEFI Firmware Settings
    Use the {\tt A} and {\tt V} keys to select which entry is highlighted. Press enter to boot the selected OS, `e' to edit the commands before booting or `c' for
     a command-line.
The highlighted entry will be executed automatically in 26s.
```

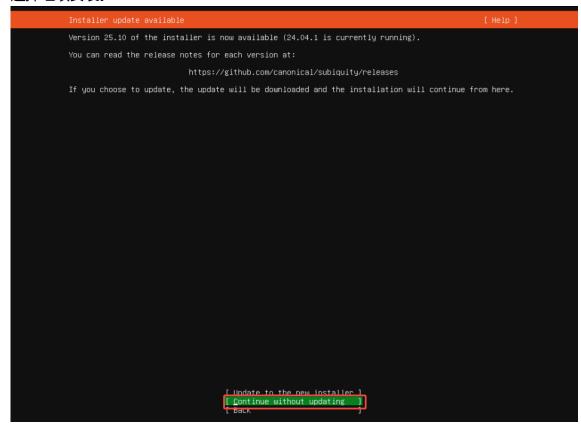
2.4 正在加载引导进安装界面。

2.5 选择语言。

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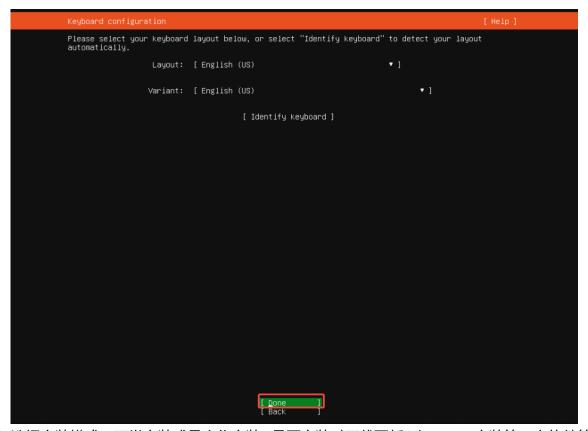
2.6 选择继续安装。



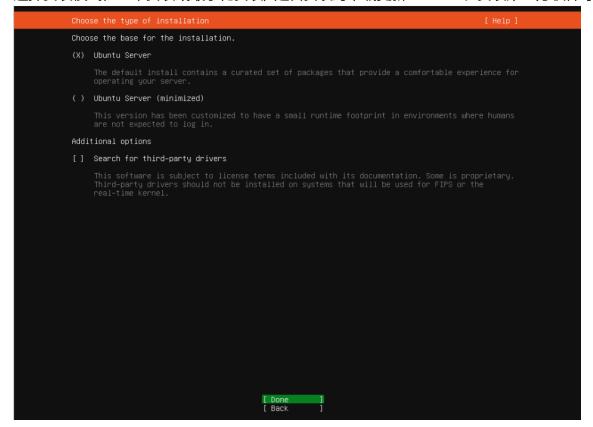
2.7 选择键盘类型后选中 Done 继续安装。

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2.8 选择安装模式,正常安装或最小化安装,是否安装时下载更新 Ubuntu、安装第三方软件等。



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2.9 设置网卡的网口选择。

```
Network configuration [ Help ]

Configure at least one interface this server can use to talk to other machines, and which preferably provides sufficient access for updates.

NAME TYPE NOTES
[ ensisto eth not connected * ]
    disabled
    6c:92:cf:f0c:60:d2 / Broadcom Inc. and subsidiaries / NetXtreme BCM5719 Gigabit Ethernet PCIe

[ ensist1 eth not connected * ]
    disabled
    6c:92:cf:0c:60:d3 / Broadcom Inc. and subsidiaries / NetXtreme BCM5719 Gigabit Ethernet PCIe

[ ensist2 eth not connected * ]
    disabled
    6c:92:cf:0c:60:d4 / Broadcom Inc. and subsidiaries / NetXtreme BCM5719 Gigabit Ethernet PCIe

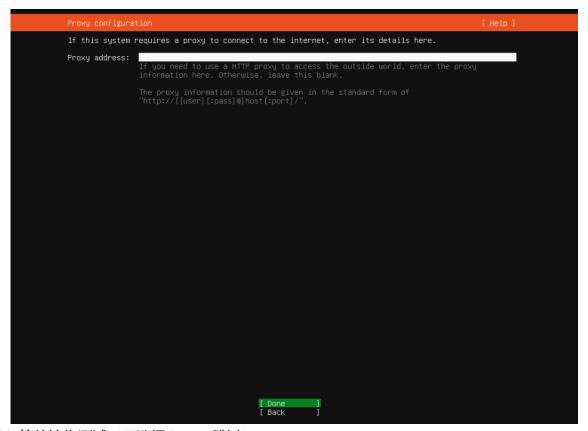
[ ensist3 eth - * * ]
    DMCPW4 | 00:12:75:138/22
    6c:92:cf:0c:60:d5 / Broadcom Inc. and subsidiaries / NetXtreme BCM5719 Gigabit Ethernet PCIe

[ Create bond * ]
```

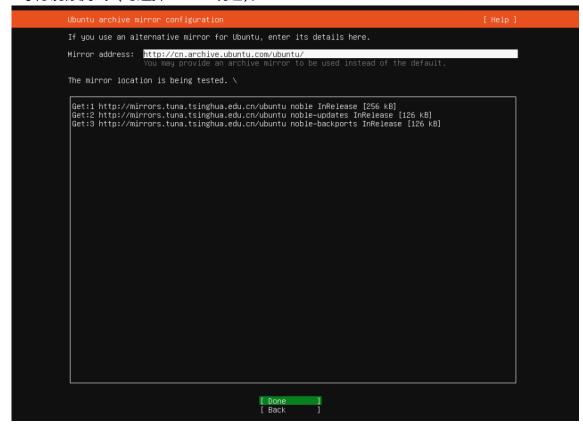
2.10 设置代理。

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2.11 等待镜像测试 (可选择 Done 跳过)。



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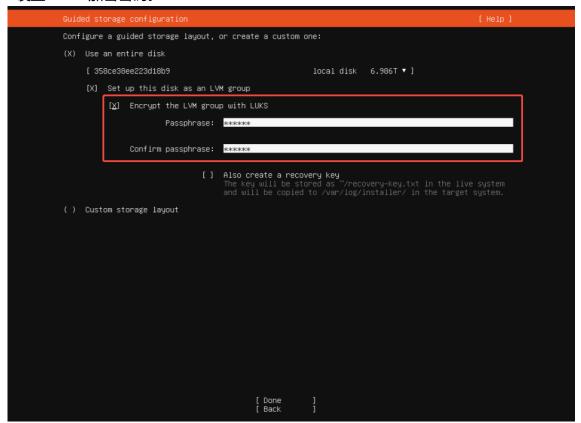
2.12 设置安装磁盘位置。



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2.13 设置 LUKS 加密密码。



2.14 选择 Done 继续安装。

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Guided storage configuration		[Note 1	
Configure a guided storage layout, or create a custom one:		[Help]	
(X) Use an entire disk			
[358ce38ee223d18b9 local	disk 6.986T ▼]		
[X] Set up this disk as an LVM group			
[X] Encrypt the LVM group with LUKS			
Passphrase: жжжжж			
Confirm passphrase: ************************************			
[] Also create a recovery key The key will be stored as			
and will be stored as	/log/installer/ in	the target system.	
() Custom storage layout			
[Done]			
(Back)			
Storage configuration			
Storage configuration FILE SYSTEM SUMMARY		[Help]	
FILE SYSTEM SUMMARY MOUNT POINT SIZE TYPE DEVICE TYPE	• 1	[Help]	Ī
FILE SYSTEM SUMMARY MOUNT POINT SIZE TYPE DEVICE TYPE [/ 100.000G new ext4 new LVM logical volume [/boot 2.000G new ext4 new partition of local di		[Help]	
FILE SYSTEM SUMMARY MOUNT POINT SIZE TYPE DEVICE TYPE [/ 100.000G new ext4 new LVM logical volume	sk ▶]	[Help]	
FILE SYSTEM SUMMARY MOUNT POINT SIZE TYPE DEVICE TYPE [/ 100.000G new ext4 new LVM logical volume [/boot 2.000G new ext4 new partition of local di	sk ▶]	[Help]	
FILE SYSTEM SUMMARY MOUNT POINT SIZE TYPE DEVICE TYPE [/ 100.000G new ext4 new LVM logical volume new partition of local di AVAILABLE DEVICES DEVICE [ubuntu-vg (new, encrypted)	sk ▶]	SIZE 6.983T ►]	
FILE SYSTEM SUMMARY MOUNT POINT SIZE TYPE DEVICE TYPE [/ 100.000G new ext4 new LVM logical volume new partition of local di [/boot/efi 1.049G new fat32 new partition of local di AVAILABLE DEVICES DEVICE [ubuntu-vg (new, encrypted) free space	sk ▶] sk ▶] TYPE LVM volume group	SIZE 6.983T ►] 6.885T ►	
FILE SYSTEM SUMMARY MOUNT POINT SIZE TYPE DEVICE TYPE [/ 100.0006 new ext4 new LVM logical volume new partition of local di new partition of local	sk ▶ j sk ▶] TYPE LVM volume group	SIZE 6.983T ►] 6.885T ► 6.984T ►] 6.885T ►	
FILE SYSTEM SUMMARY MOUNT POINT SIZE TYPE [/ 100.0006 new ext4 [/boot 2.000G new ext4 [/boot/efi 1.0496 new fat32 new partition of local dinew partition dinew partition dinew partition dinew partition dinew partition	sk ▶ j sk ▶] TYPE LVM volume group	SIZE 6.983T ►] 6.885T ► 6.984T ►]	
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### FILE SYSTEM SUMMARY ### MOUNT POINT SIZE TYPE new LVM logical volume new partition of local di	sk • j sk •] TYPE LVM volume group LVM volume group local disk local disk	SIZE 6.983T •] 6.885T • 6.984T •] 6.885T • 70.000G • 32.000G • 6.986T •] 6.986T •] 6.986T •] 600.000M •	
FILE SYSTEM SUMMARY MOUNT POINT SIZE TYPE new LVM logical volume 1.0496 new ext4 new partition of local di new partition	sk • j sk •] TYPE LVM volume group LVM volume group local disk local disk	SIZE 6.983T	
FILE SYSTEM SUMMARY MOUNT POINT SIZE TYPE new LVM logical volume 1 / hoot 2.000G new ext4 new partition of local di new p	sk • j sk •] TYPE LVM volume group LVM volume group local disk local disk	SIZE 6.983T *] 6.984T *] 6.885T * 70.000G * 32.000G * 6.986T *] 609.000M * 1.000G *	
FILE SYSTEM SUMMARY MOUNT POINT SIZE TYPE new LVM logical volume [/boot 2.000G new ext4 new partition of local di	sk • j sk •] TYPE LVM volume group LVM volume group local disk local disk	SIZE 6.983T >] 6.885T > 6.984T >] 6.885T > 70.000G > 32.000G > 6.986T >] 600.000M > 1.000G > 6.986T >] 6.986T >] 6.986T >	
### FILE SYSTEM SUMMARY ### MOUNT POINT SIZE TYPE new LVM logical volume new ext4 new partition of local di	sk • j sk •] TYPE LVM volume group LVM volume group local disk local disk local disk	SIZE 6.983T *] 6.885T * 6.984T *] 6.885T * 70.000G * 32.000G * 6.986T *] 60.986T *] 6.986T *]	
### FILE SYSTEM SUMMARY ### MOUNT POINT SIZE TYPE new LVM logical volume new partition of local di	sk • j sk	SIZE 6.983T •] 6.885T • 6.984T •] 6.885T • 70.000G • 32.000G • 6.986T •]	
### FILE SYSTEM SUMMARY ### MOUNT POINT SIZE TYPE new LVM logical volume new ext4 new partition of local di	sk • j sk • j sk • j sk • j TYPE LVM volume group LVM volume group local disk local disk local disk local disk	SIZE 6.983T *] 6.885T * 6.984T *] 6.885T * 70.000G * 32.000G * 6.986T *] 60.986T *] 6.986T *]	
FILE SYSTEM SUMMARY MOUNT POINT SIZE TYPE DEVICE TYPE [/ 100.0006 new ext4 new LVM logical volume new partition of local di lobot/efi 1.0496 new fat32 new partition of local di new partition of loc	sk • j sk	SIZE 6.983T *] 6.885T * 6.984T *] 6.885T * 70.000G * 32.000G * 6.986T *]	
### FILE SYSTEM SUMMARY ### MOUNT POINT SIZE TYPE new LVM logical volume	sk • j sk	SIZE 6.983T *] 6.885T * 6.984T *] 6.885T * 70.000G * 32.000G * 6.986T *]	

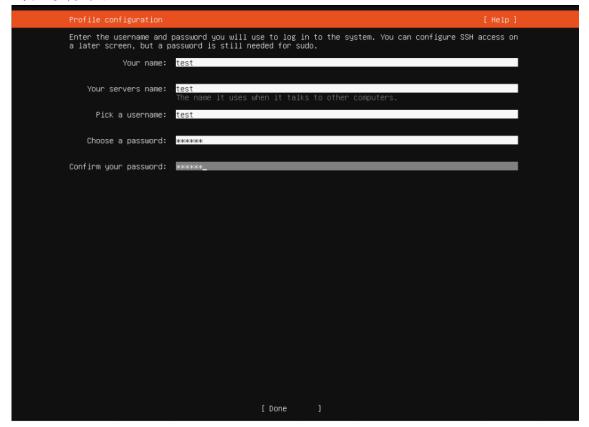
2.15 选择继续安装。

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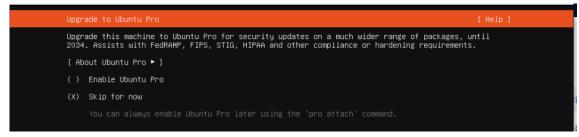


Confirm destructive action
Selecting Continue below will begin the installation process and result in the loss of data on the disks selected to be formatted.
You will not be able to return to this or a previous screen once the installation has started.
Are you sure you want to continue?
[No] [<u>C</u> ontinue]

2.16 设置系统密码。



2.17 选择跳过



2.18 根据业务需求设置是否需要 ssh 功能。

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```
SSH configuration [ Help ]

You can choose to install the OpenSSH server package to enable secure remote access to your server.

[] Install OpenSSH server

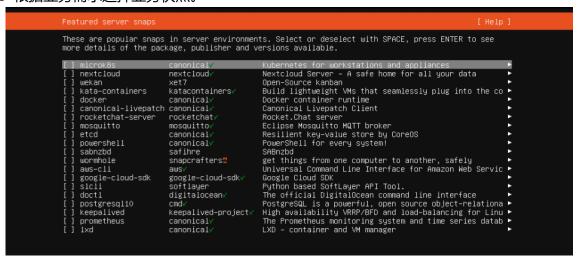
[X] Allow password authentication over SSH

[ Import SSH key * ]

AUTHORIZED KEYS

No authorized key
```

2.19 根据业务需求选择业务快照。



2.20 等待系统安装成功后, 重启系统安装完成。

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Ubuntu 24.04 LTS test tty1

test login: test
Passuord:
Welcome to Ubuntu 24.04 LTS (GNU/Linux 6.8.0-31-generic x86_64)

**Documentation: https://help.ubuntu.com

**Management: https://landscape.canonical.com

**Support: https://ubuntu.com/pro

**System Information as of Fri Oct 31 06:14:24 AM UTC 2025

System load: 0.16

Usage of /: 10.3% of 97.8768

**Processes: 618

Wemonry usage: 0%

IPv4 address for ens15f3: 10.12.175.95

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.

See https://ubuntu.com/esm or run: sudo pro status

The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the Individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO MARRANTY, to the extent permitted by applicable law.

To run a command as administrator (user "root"), use "sudo <command>". see "man sudo_root" for details.

test@test:"\$

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