

# HPE Gen12 服务器

## 通过 iLO 挂载引导安装 Ubuntu 22.04 系统的方法

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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 iLO 安装系统的方法，并以 DL360 Gen12 服务器安装 Ubuntu 22.04.5 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>

## 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>

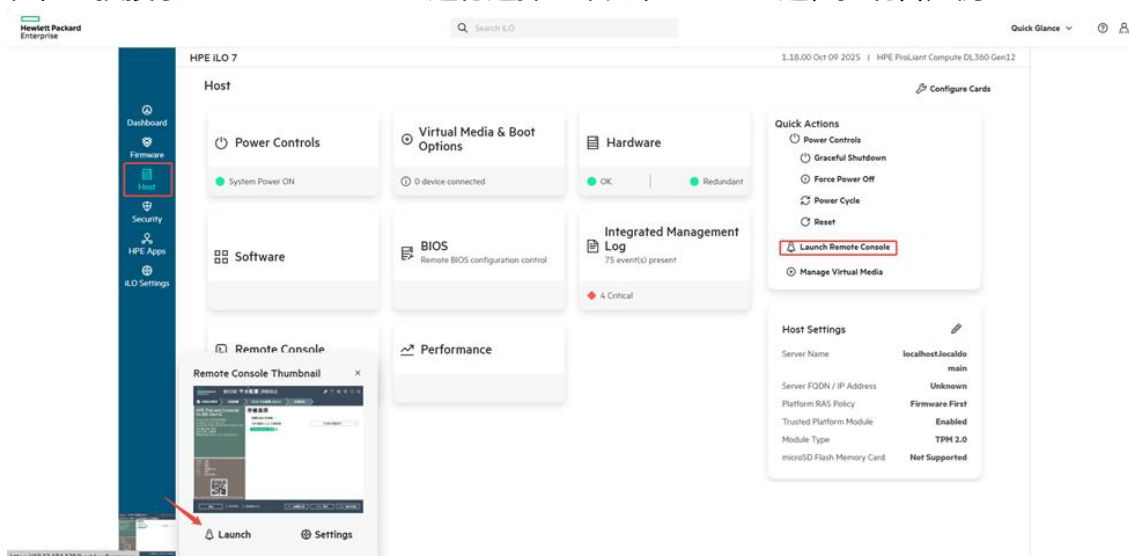
## 4. 连接 iLO 与启用远程控制台

具体方法请参考：<https://zhiliao.h3c.com/theme/details/233627>

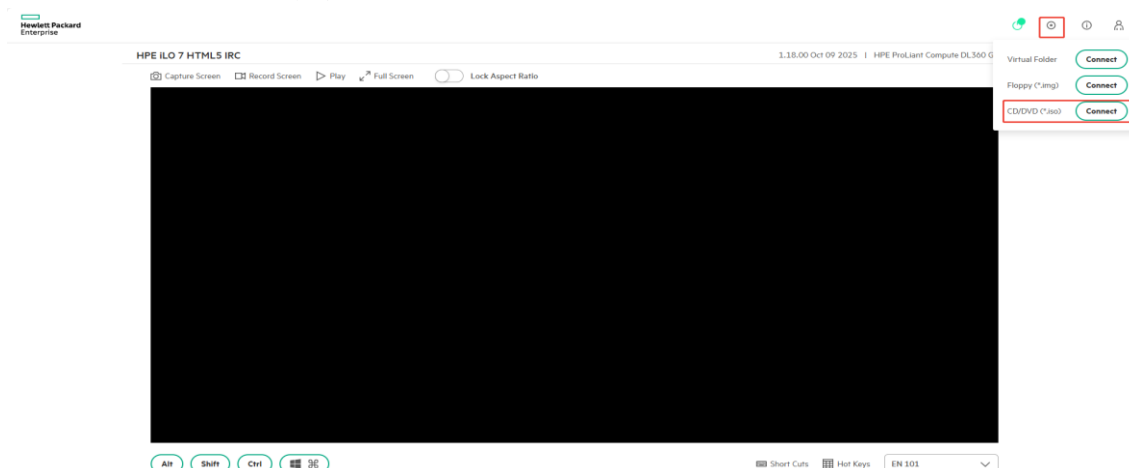
# 三. 安装步骤

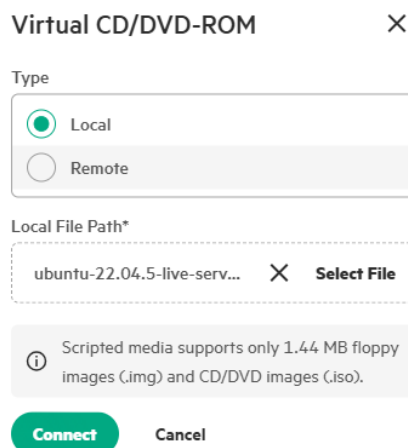
## 1. 挂载系统安装介质

1.1 通过 iLO7 页面 **Dashboard - Virtual Media & Remote Console** 选项，或 **Host - Remote Console** 页面，或页面左下方 Remote Console 选区可直接启用远程控制台；也可在上方搜索栏，直接搜索 Remote Console 进行选择。本文以 HTML5 远程控制台为例。



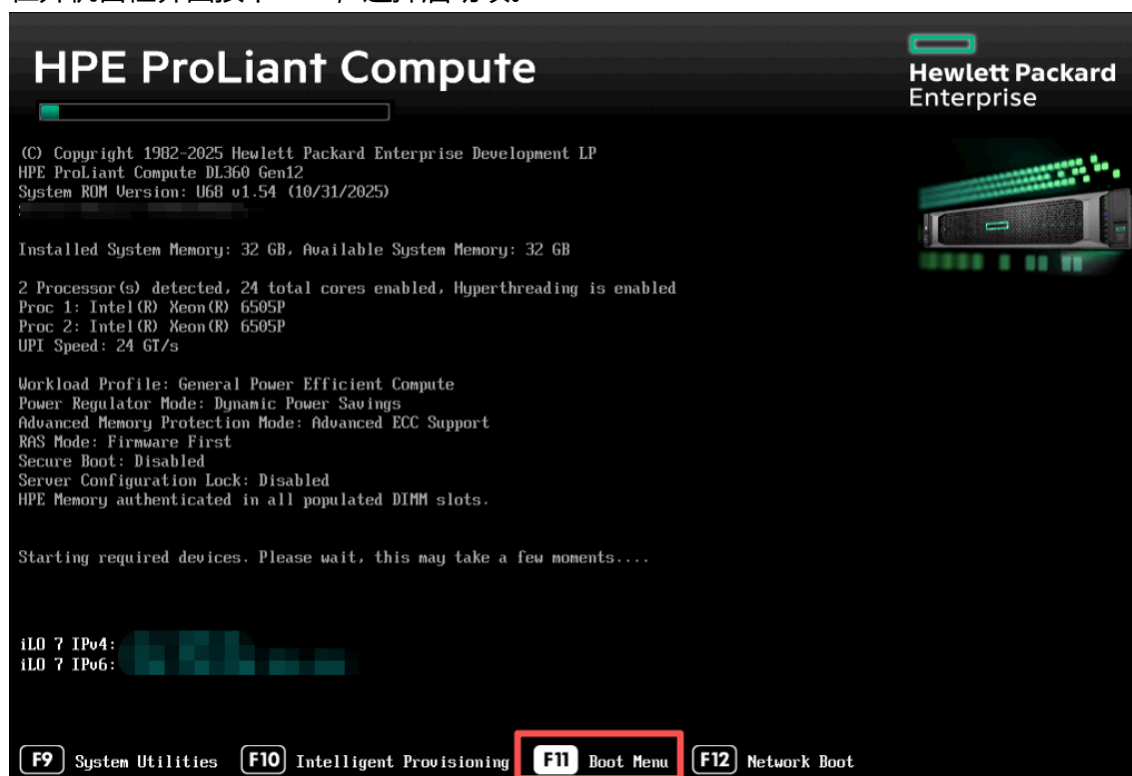
1.2 选择 CD/DVD 挂载系统镜像。





## 2. 引导系统安装

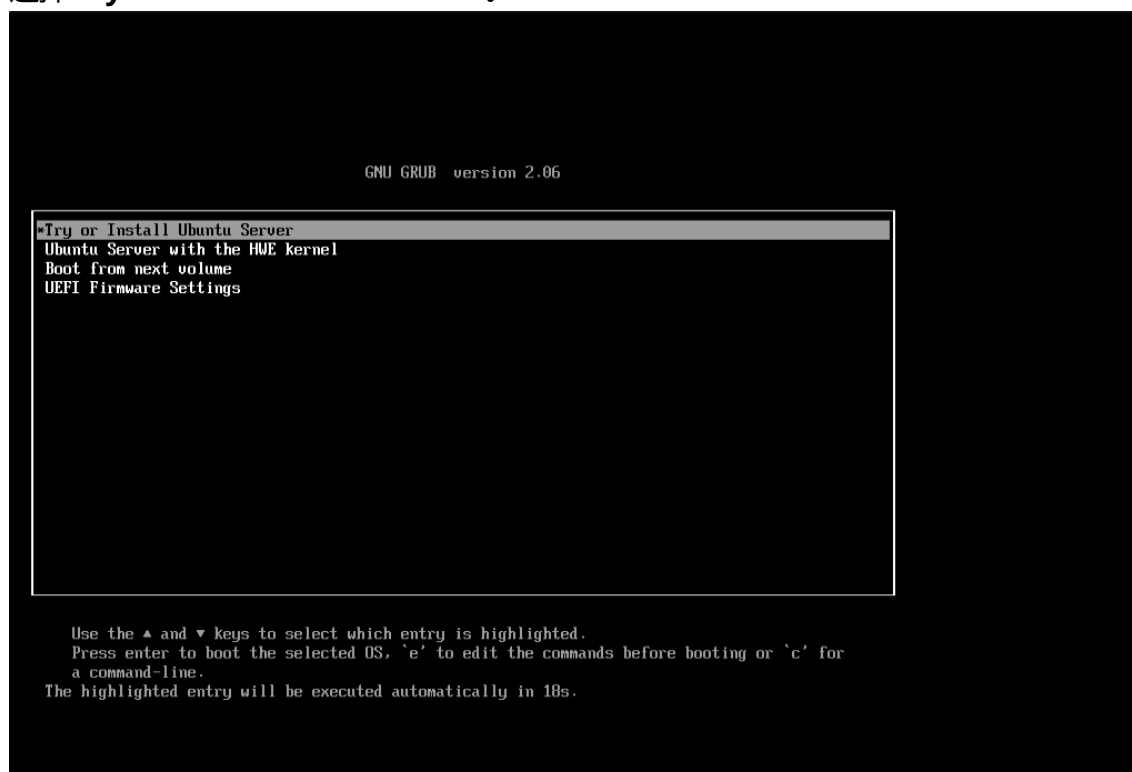
### 2.1 在开机自检界面按下 **F11**，选择启动项。



### 2.2 进入到一次性启动菜单，选择 **iLO Virtual USB 3: iLO Virtual CD-ROM**。



## 2.3 选择 Try or Install Ubuntu Server.



## 2.4 正在加载引导进安装界面。

```

Starting Load Kernel Module configs...
[ 218.501130] systemd[1]: Starting Load Kernel Module drm...
Starting Load Kernel Module drm...
[ 218.515967] systemd[1]: Starting Load Kernel Module efi_pstore...
Starting Load Kernel Module efi_pstore...
[ 218.530936] systemd[1]: Starting Load Kernel Module fuse...
Starting Load Kernel Module fuse...
[ 219.169687] systemd[1]: Condition check resulted in OpenVSwitch configuration for cleanup being skipped.
[ 222.708128] systemd[1]: Starting Load Kernel Modules...
Starting Load Kernel Modules...
[ 222.723947] systemd[1]: Starting Remount Root and Kernel File Systems...
Starting Remount Root and Kernel File Systems...
[ 222.740063] systemd[1]: Starting Coldplug All udev Devices...
Starting Coldplug All udev Devices...
[ 222.756675] systemd[1]: Mounted Huge Pages File System.
OK ] Mounted Huge Pages File System.
[ 222.771164] systemd[1]: Mounted POSIX Message Queue File System.
OK ] Mounted POSIX Message Queue File System.
[ 222.785607] systemd[1]: Mounted Kernel Debug File System.
OK ] Mounted Kernel Debug File System.
[ 222.799989] systemd[1]: Mounted Kernel Trace File System.
OK ] Mounted Kernel Trace File System.
[ 222.814540] systemd[1]: Finished Create List of Static Device Nodes.
OK ] Finished Create List of Static Device Nodes.
[ 222.829347] systemd[1]: Finished Set the console keyboard layout.
OK ] Finished Set the console keyboard layout.
[ 222.843988] systemd[1]: Finished Monitoring of LVM2 mirrors, snapshots etc. using dmeventd or progress polling.
OK ] Finished Monitoring of LVM2 mirrors, snapshots etc. using dmeventd or progress polling.
[ 222.859287] systemd[1]: modprobe@configs.service: Deactivated successfully.
[ 222.867352] systemd[1]: Finished Load Kernel Module configs.
OK ] Finished Load Kernel Module configs.
[ 222.882574] systemd[1]: modprobe@fuse.service: Deactivated successfully.
[ 222.890321] systemd[1]: Finished Load Kernel Module fuse.
OK ] Finished Load Kernel Module fuse.
[ 222.905478] systemd[1]: Started Journal Service.
OK ] Started Journal Service.
Mounting FUSE Control File System...
Mounting Kernel Configuration File System...
[ 223.944058] pstore: ignoring unexpected backend 'efi'
OK ] Finished Load Kernel Module efi_pstore.
OK ] Finished Load Kernel Module drm.
OK ] Mounted FUSE Control File System.
OK ] Mounted Kernel Configuration File System.
OK ] Finished Remount Root and Kernel File Systems.
Starting Device-Mapper Multipath Device Controller...
Starting Flush Journal to Persistent Storage...
Starting Load/Save Random Seed...

```

## 2.5 选择语言。

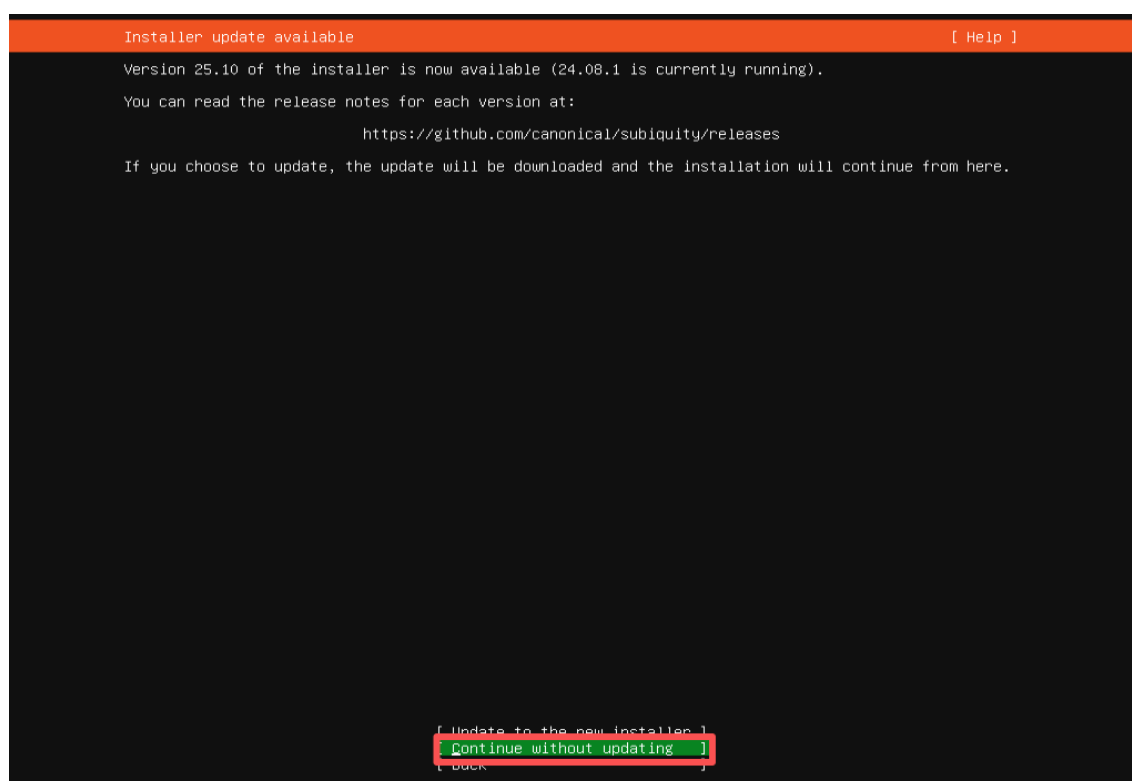
```

Willkommen! Bienvenue! Welcome! Добро пожаловать! Welkom! [ Help ]
Use UP, DOWN and ENTER keys to select your language.

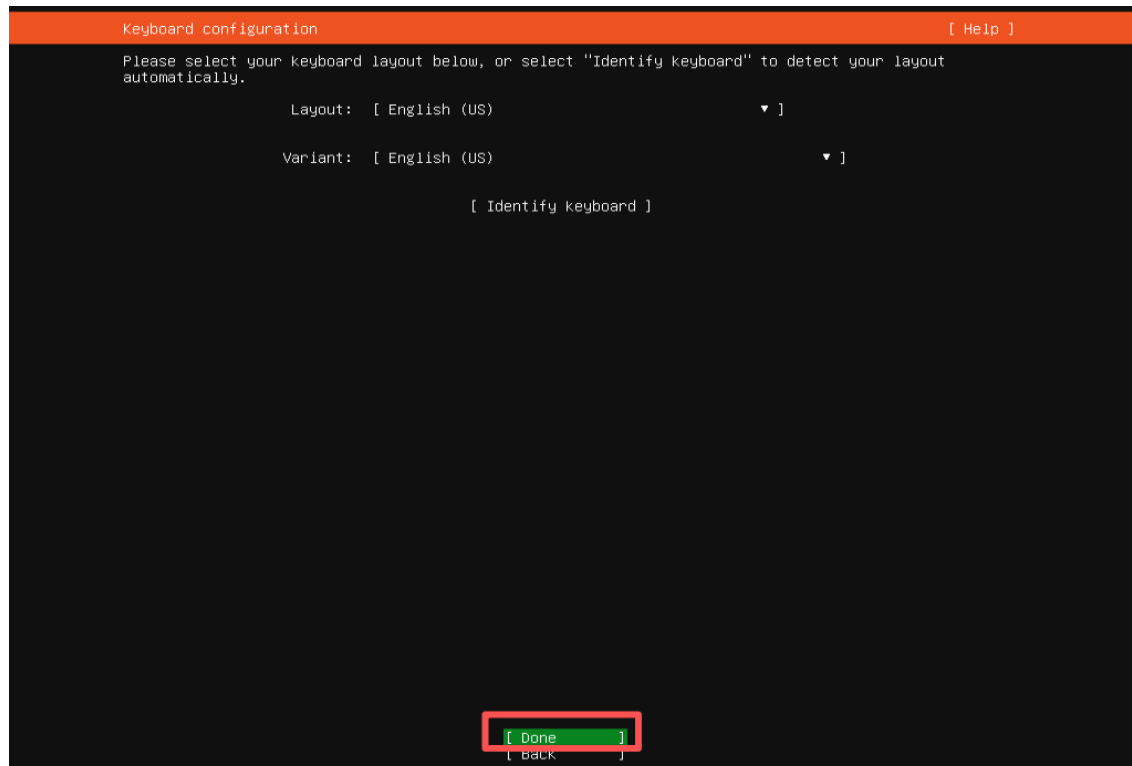
[ Asturianu ]
[ Bahasa Indonesia ]
[ Català ]
[ Deutsch ]
[ English ]
[ English (UK) ]
[ Español ]
[ Français ]
[ Galego ]
[ Hrvatski ]
[ Latviski ]
[ Lietuviškai ]
[ Magyar ]
[ Nederlands ]
[ Norsk bokmål ]
[ Occitan ]
[ Polski ]
[ Português ]
[ Suomi ]
[ Svenska ]
[ Čeština ]
[ Ελληνικά ]
[ Беларуская ]
[ Русский ]
[ Српски ]
[ Українська ]

```

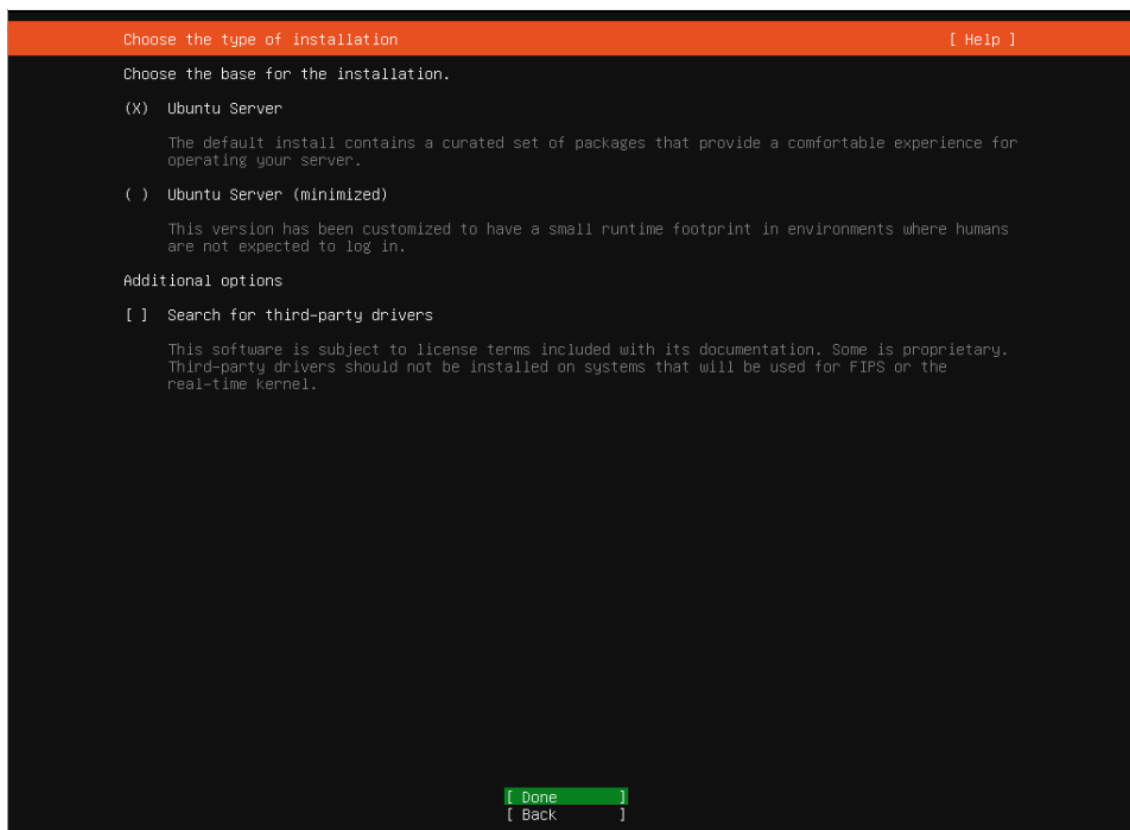
## 2.6 选择 **Continue without updating**，继续安装。



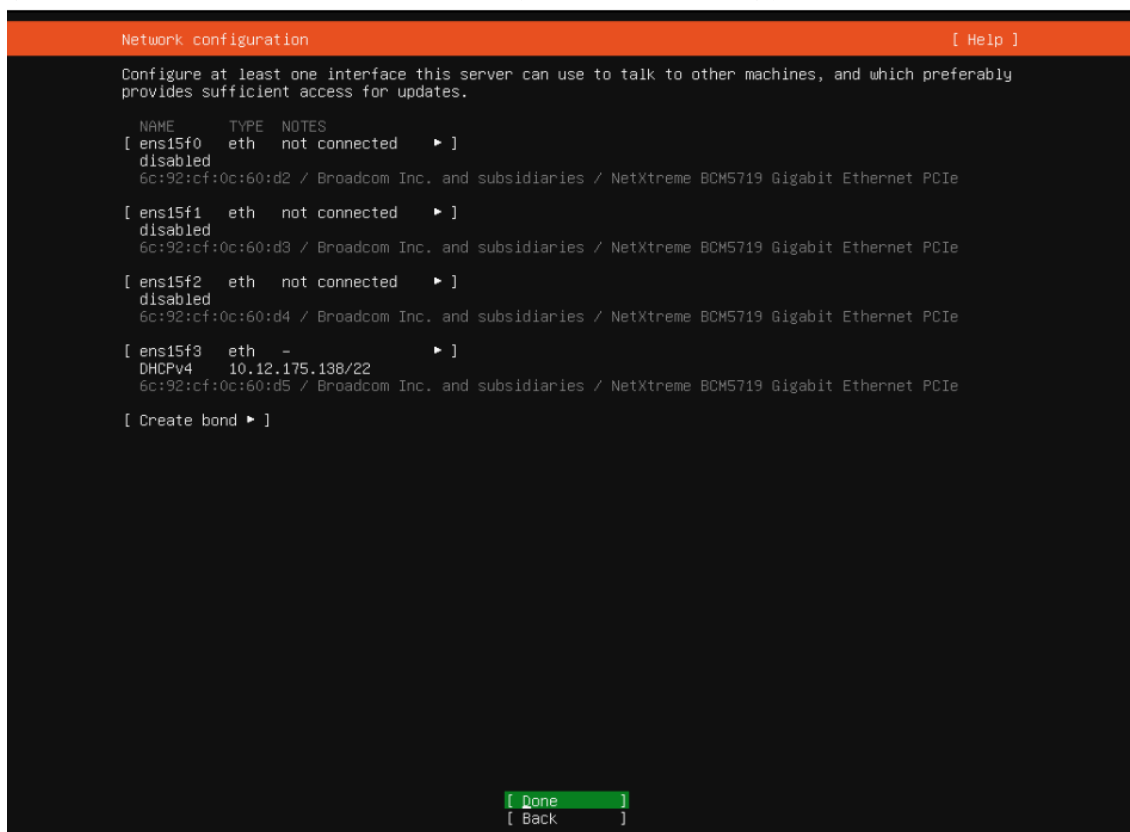
2.7 选择键盘类型后，选中 **Done** 继续安装。



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。  
默认选择 **Done** 继续。



## 2.9 设置网卡的网口选择，根据需求选择。默认选择 **Done** 继续。



## 2.10 设置代理，默认选择 **Done** 继续。

Proxy configuration

[ Help ]

If this system requires a proxy to connect to the internet, enter its details here.

Proxy address:

If you need to use a HTTP proxy to access the outside world, enter the proxy information here. Otherwise, leave this blank.

The proxy information should be given in the standard form of "http://[[user][:pass]@]host[:port]/".

[ Done ]

[ Back ]

## 2.11 等待镜像测试，默认选择 **Done** 继续。

Ubuntu archive mirror configuration

[ Help ]

If you use an alternative mirror for Ubuntu, enter its details here.

Mirror address:

You may provide an archive mirror to be used instead of the default.

The mirror location is being tested. \

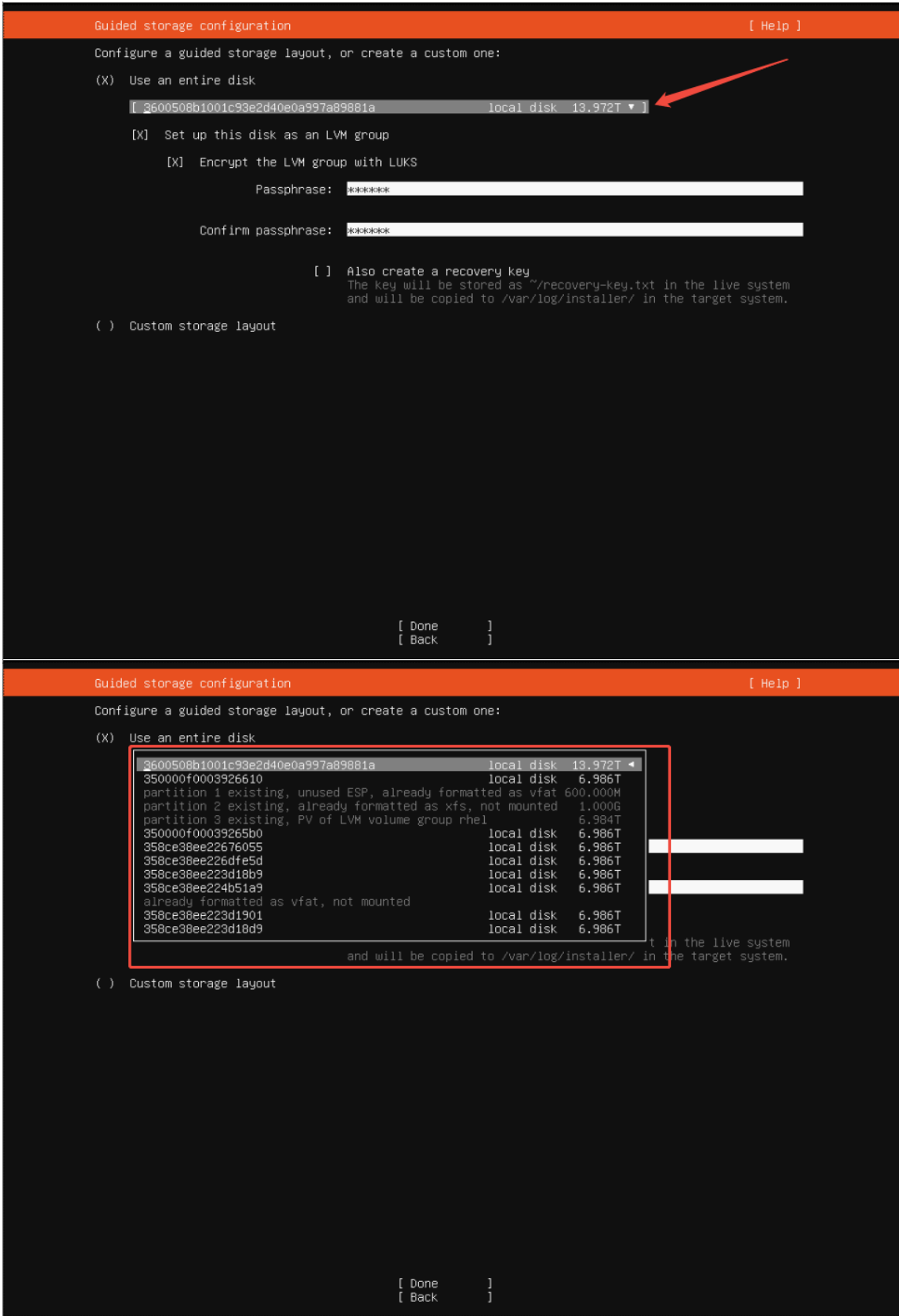
Get:1 http://mirrors.tuna.tsinghua.edu.cn/ubuntu noble InRelease [256 kB]  
Get:2 http://mirrors.tuna.tsinghua.edu.cn/ubuntu noble-updates InRelease [126 kB]  
Get:3 http://mirrors.tuna.tsinghua.edu.cn/ubuntu noble-backports InRelease [126 kB]

[ Done ]

[ Back ]

## 2.12 设置安装磁盘位置。





2.13 设置 LUKS 加密密码。

Guided storage configuration [ Help ]

Configure a guided storage layout, or create a custom one:

(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: \*\*\*\*\*

Confirm passphrase: \*\*\*\*\*

[ ] Also create a recovery key

The key will be stored as ~/recovery-key.txt in the live system and will be copied to /var/log/installer/ in the target system.

( ) Custom storage layout

[ Done ]

[ Back ]

## 2.14 选择 Done 继续安装。

Guided storage configuration [ Help ]

Configure a guided storage layout, or create a custom one:

(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: \*\*\*\*\*

Confirm passphrase: \*\*\*\*\*

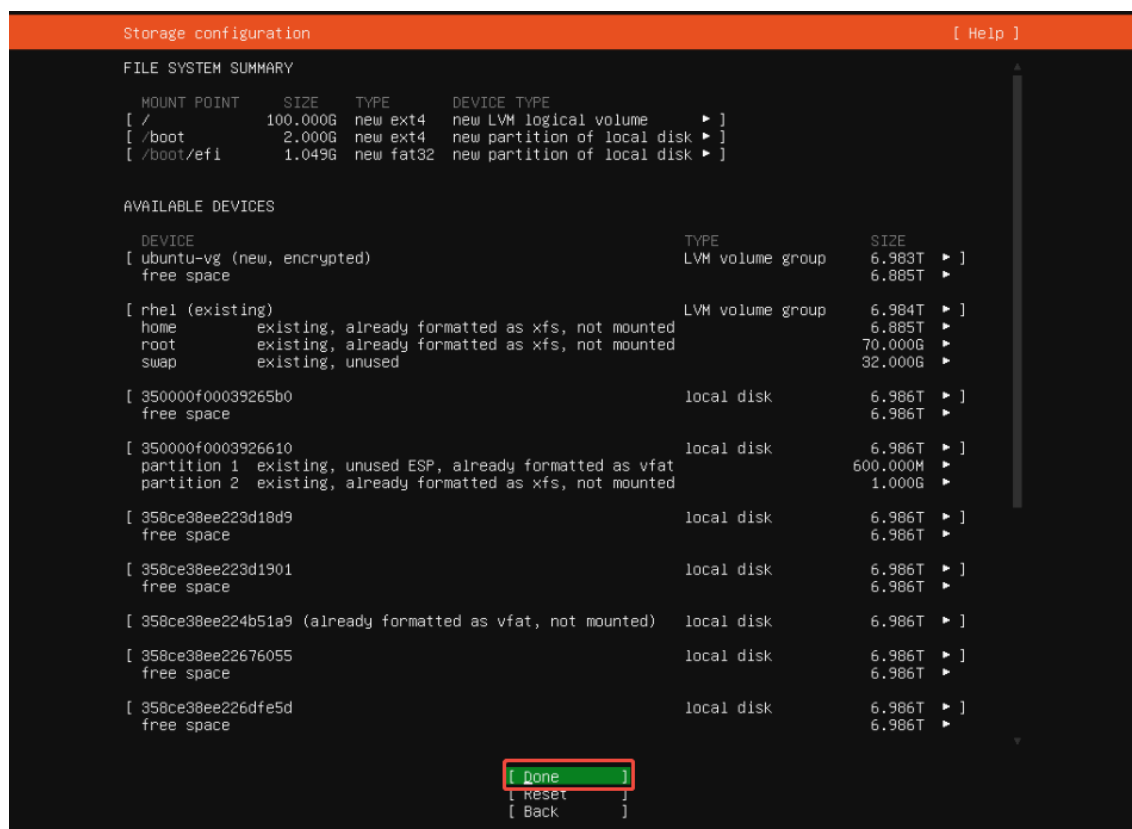
[ ] Also create a recovery key

The key will be stored as ~/recovery-key.txt in the live system and will be copied to /var/log/installer/ in the target system.

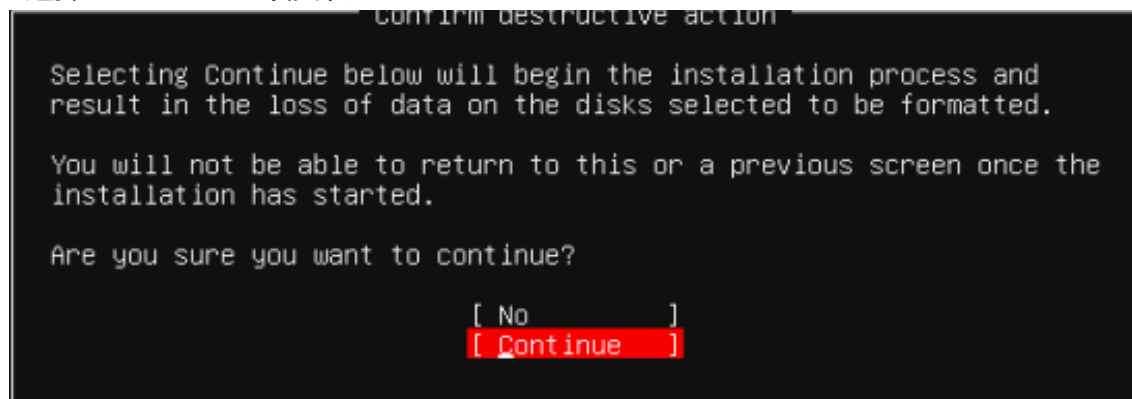
( ) Custom storage layout

[ Done ]

[ Back ]



2.15 选择 **Continue** 继续安装。



2.16 设置系统密码。

Profile configuration

[ Help ]

Enter the username and password you will use to log in to the system. You can configure SSH access on a later screen, but a password is still needed for sudo.

Your name:

test

Your servers name:

test

The name it uses when it talks to other computers.

Pick a username:

test

Choose a password:

\*\*\*\*\*

Confirm your password:

\*\*\*\*\*

[ Done ]

## 2.17 选择 Skip for now 跳过

Upgrade to Ubuntu Pro

[ Help ]

Upgrade this machine to Ubuntu Pro for security updates on a much wider range of packages, until 2034. Assists with FedRAMP, FIPS, STIG, HIPAA and other compliance or hardening requirements.

[ About Ubuntu Pro ▶ ]

( ) Enable Ubuntu Pro

(X) Skip for now

You can always enable Ubuntu Pro later using the 'pro attach' command.

## 2.18 根据业务需求设置是否需要 ssh 功能。

SSH configuration

[ Help ]

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

[ ] Install OpenSSH server

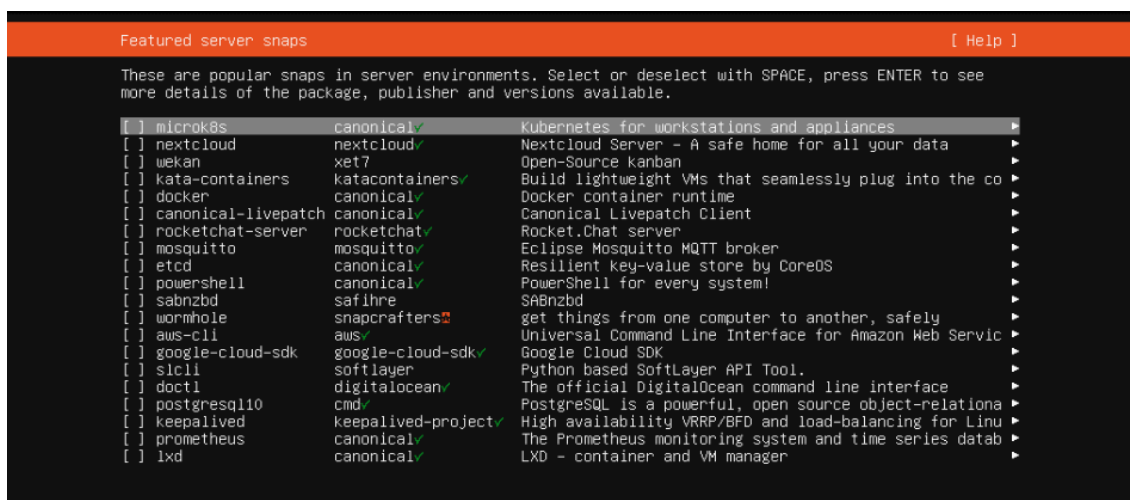
[X] Allow password authentication over SSH

[ 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，**Reboot Now** 重启，系统安装完成。

