

HPE Gen11 服务器通过 iLO 挂载引导 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 iLO 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>

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>

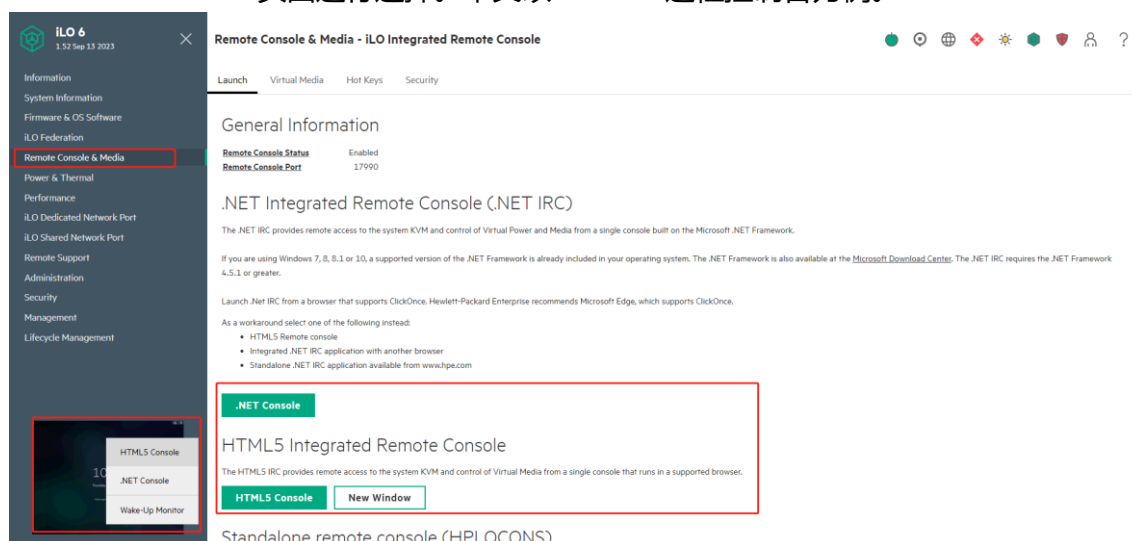
4. 连接 iLO 与启用远程控制台

具体方法请参考：<https://zhiliao.h3c.com/Theme/details/216337>

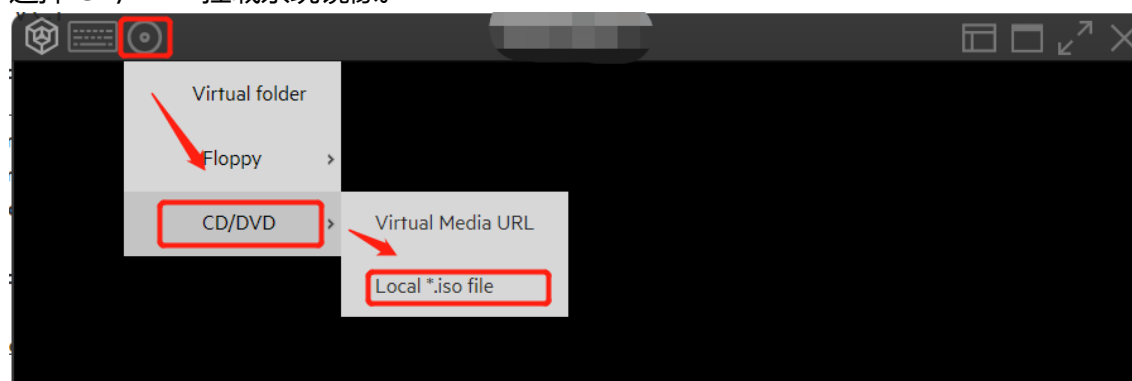
三. 安装步骤

1. 挂载系统安装介质

1.1 通过 iLO 6 页面 **Information -> Overview** 的 **Remote Console** 选项,或页面左下方 Remote Console 选区可直接启用远程控制台;也可在 **Remote Console & Media -> iLO Integrated Remote Console** 页面进行选择。本文以 HTML5 远程控制台为例。

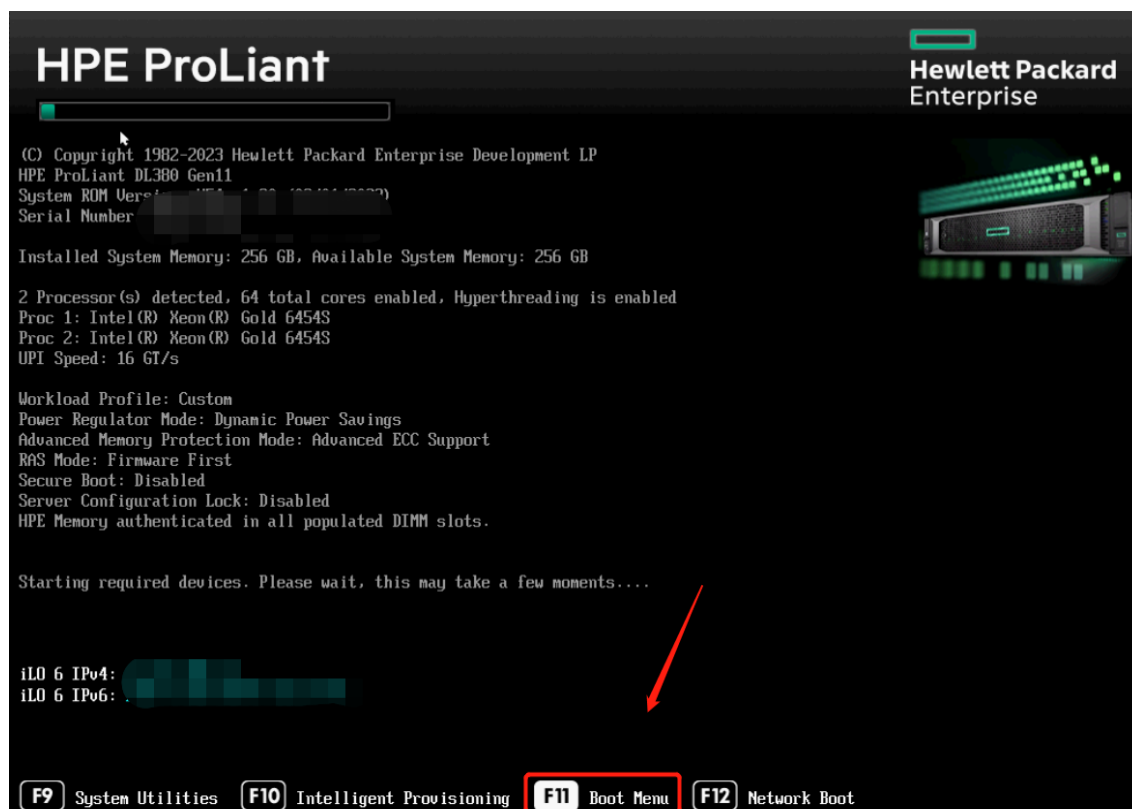


1.2 选择 CD/DVD 挂载系统镜像。



2. 引导系统安装

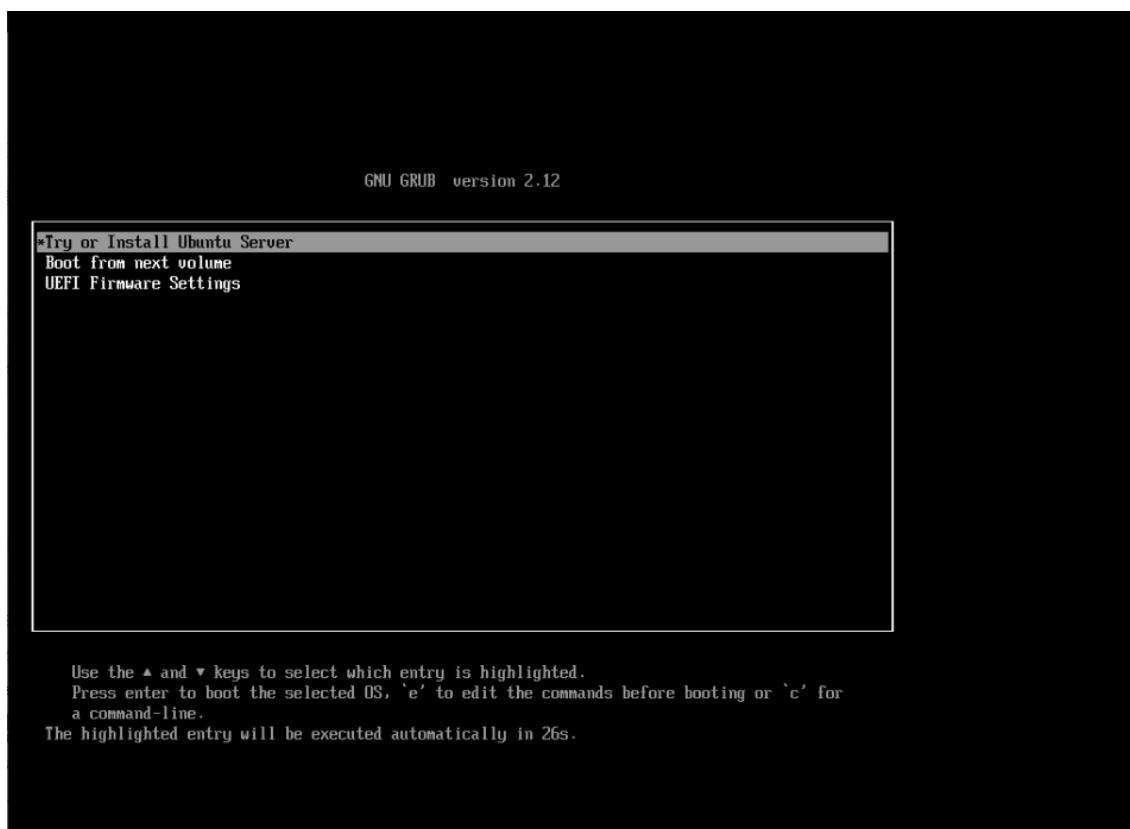
2.1 在开机自检界面按下 **F11**，选择启动项。



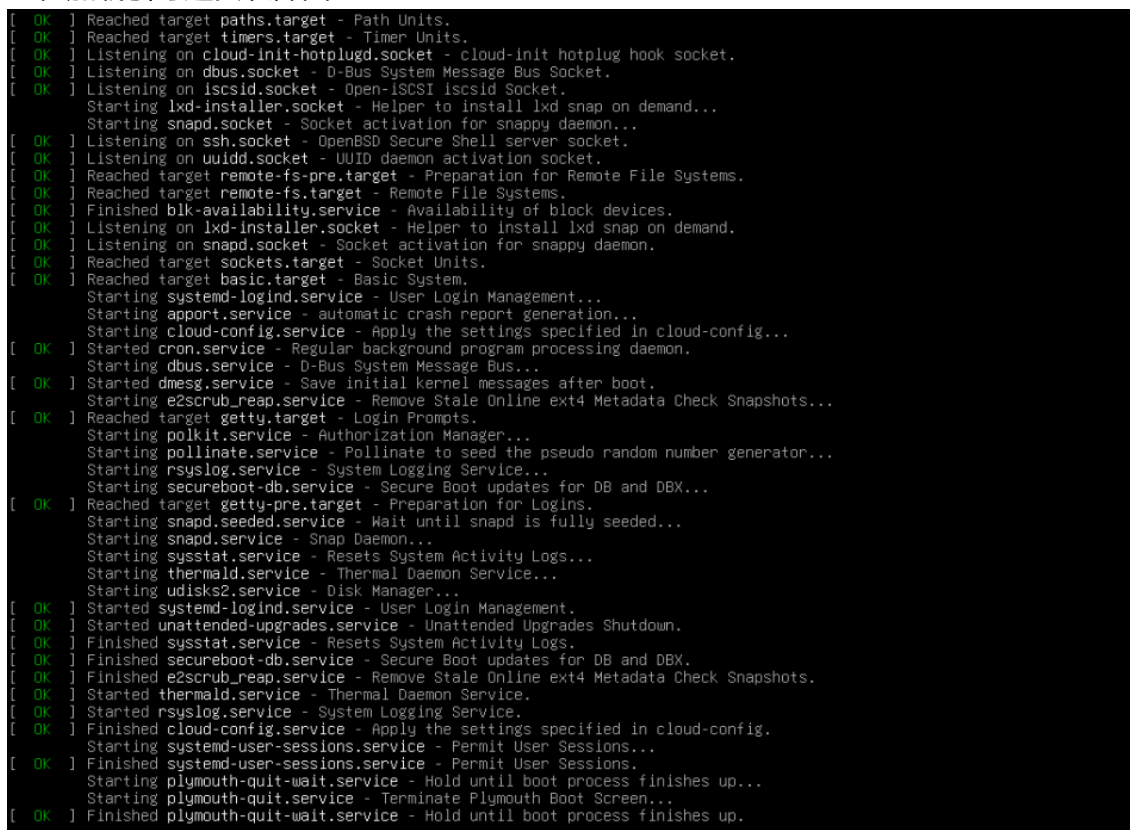
2.2 进入到一次性启动菜单，选择 iLO Virtual USB CD-ROM。



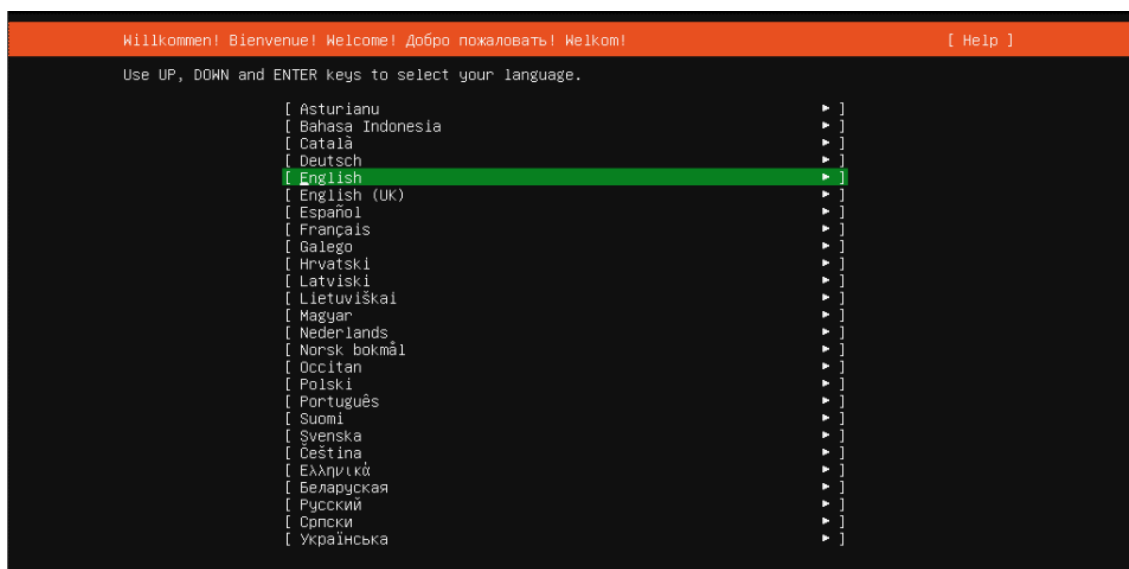
2.3 选择 Try or Install Ubuntu.



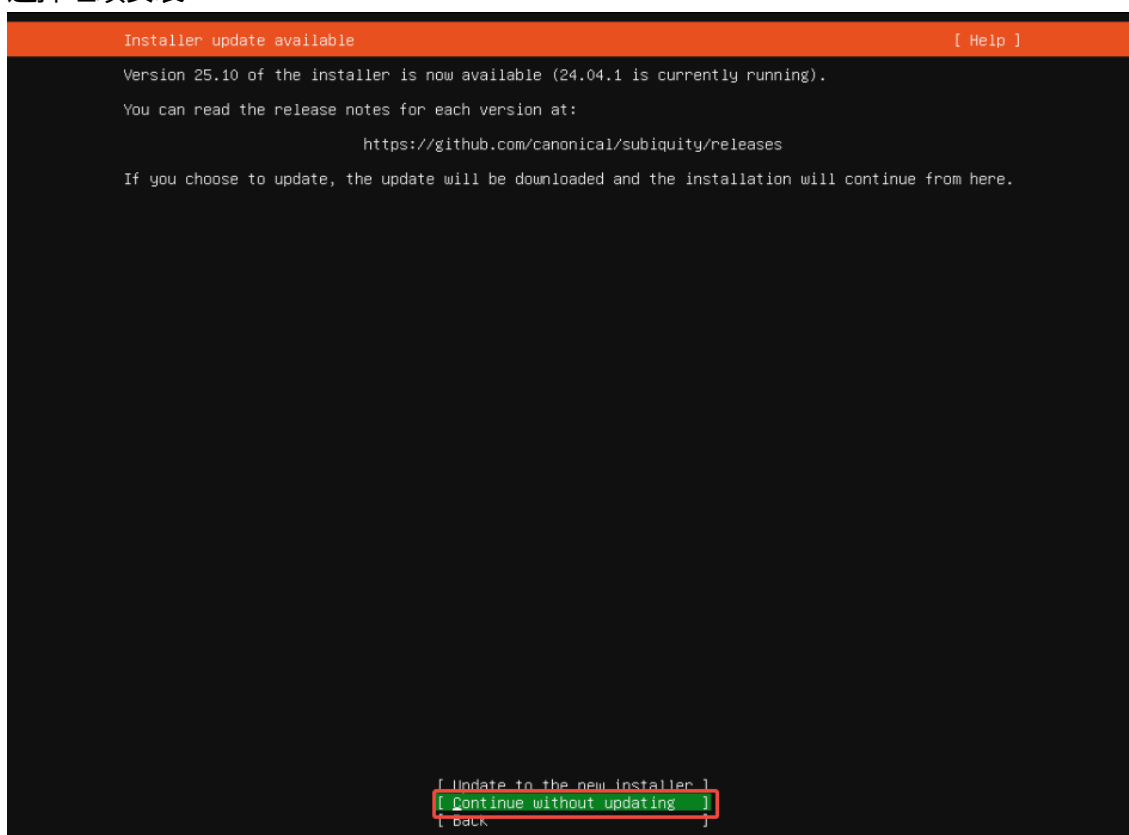
2.4 正在加载引导进安装界面。



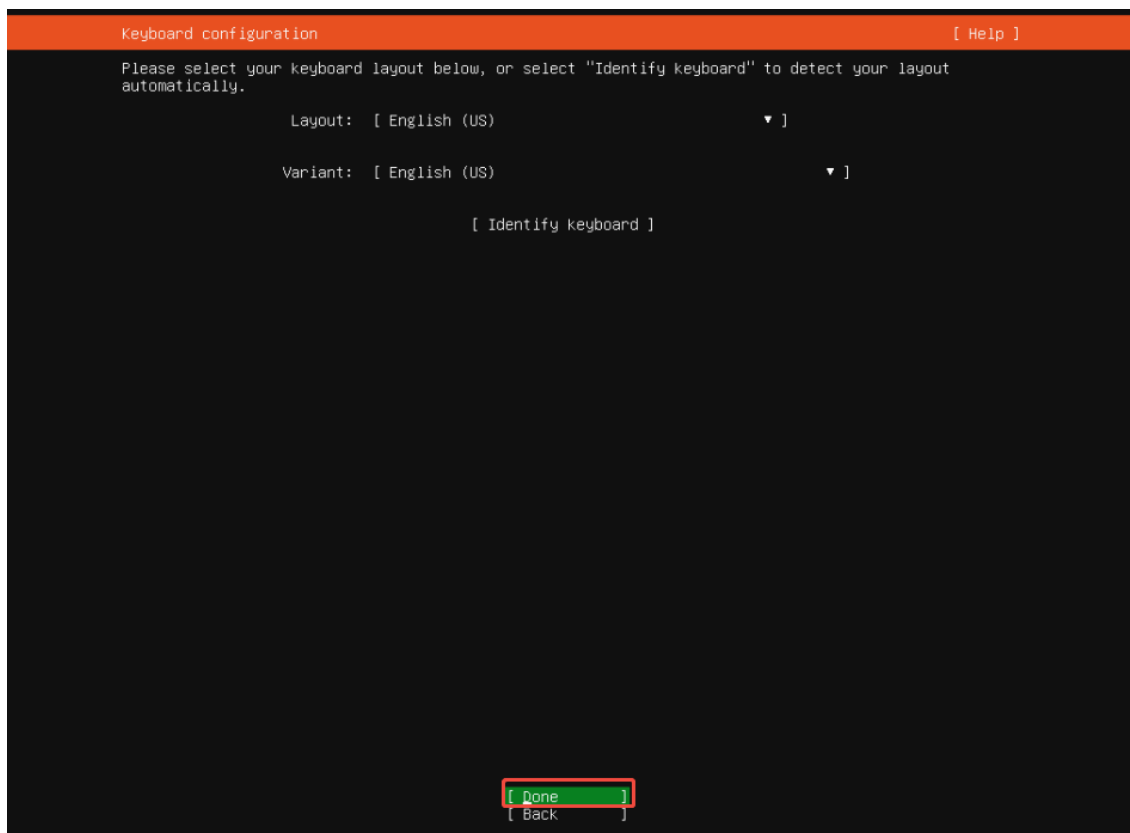
2.5 选择语言。



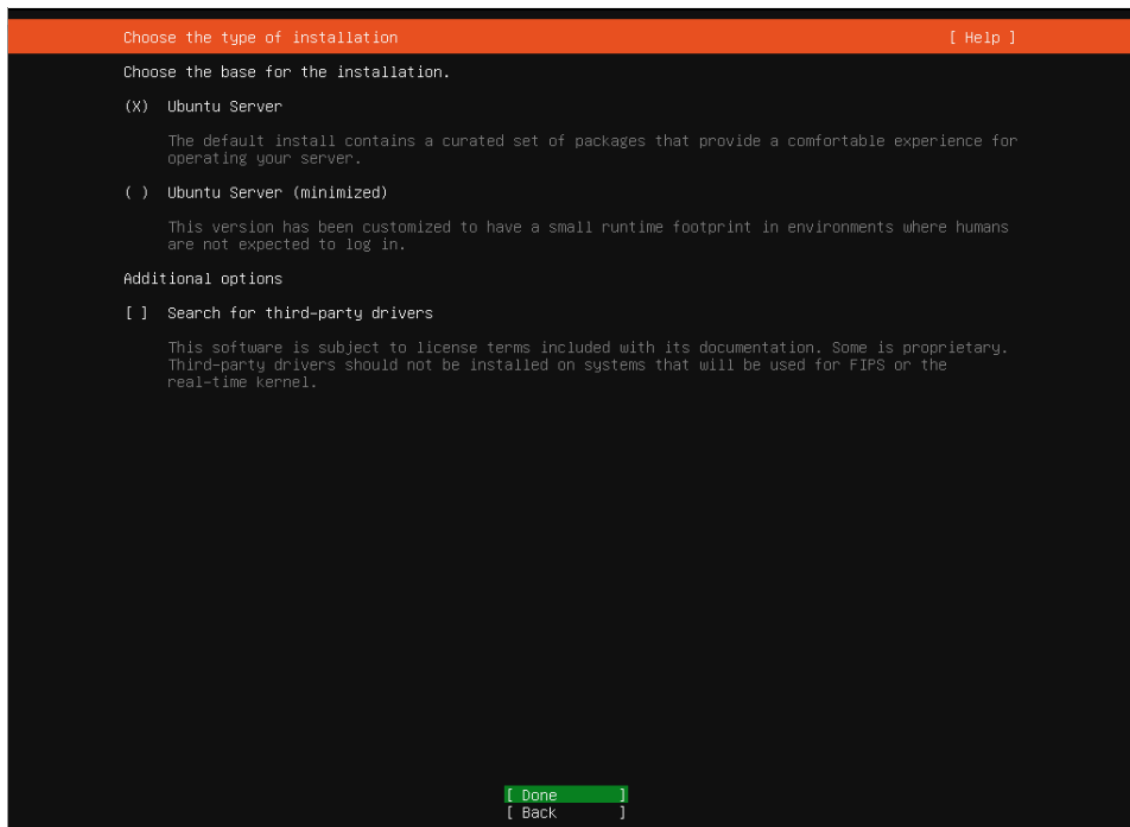
2.6 选择继续安装



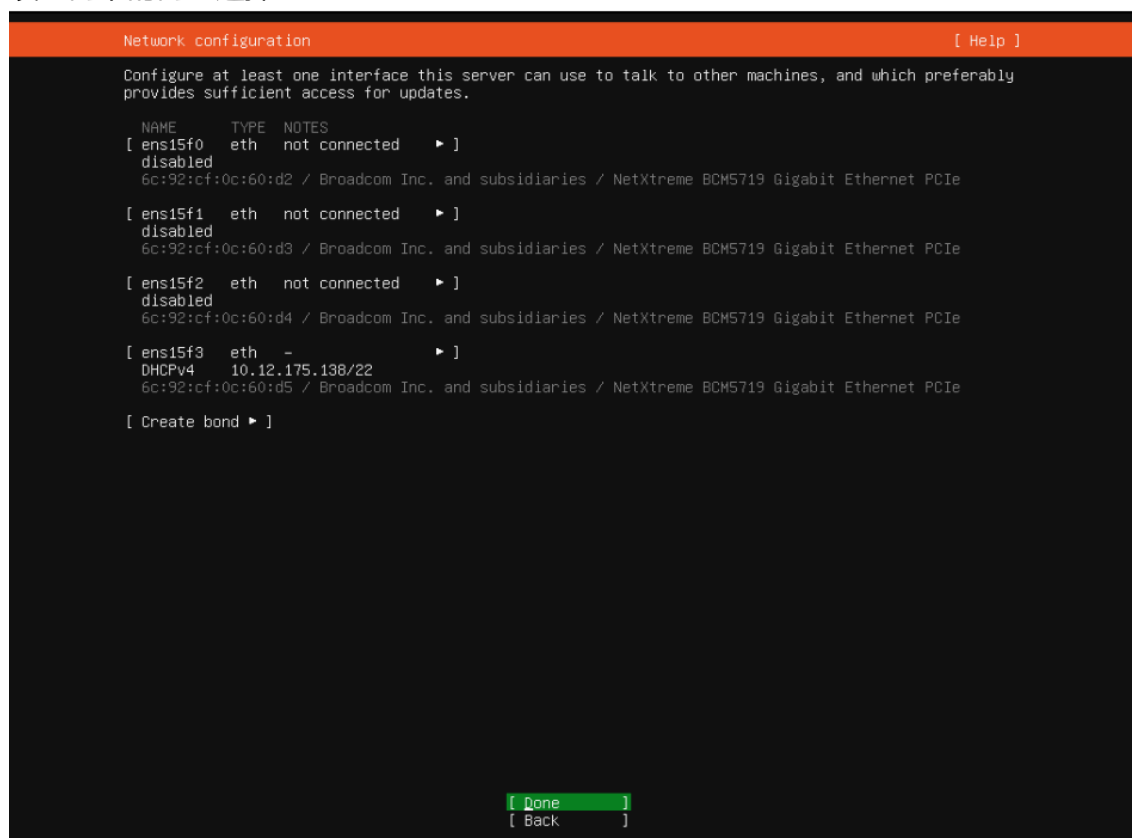
2.7 选择键盘类型后选中 done 继续安装。



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。



2.9 设置网卡的网口选择。



2.10 设置代理。

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]/".

2.11 等待镜像测试（可选择 Done 跳过）。

Ubuntu archive mirror configuration [Help]

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

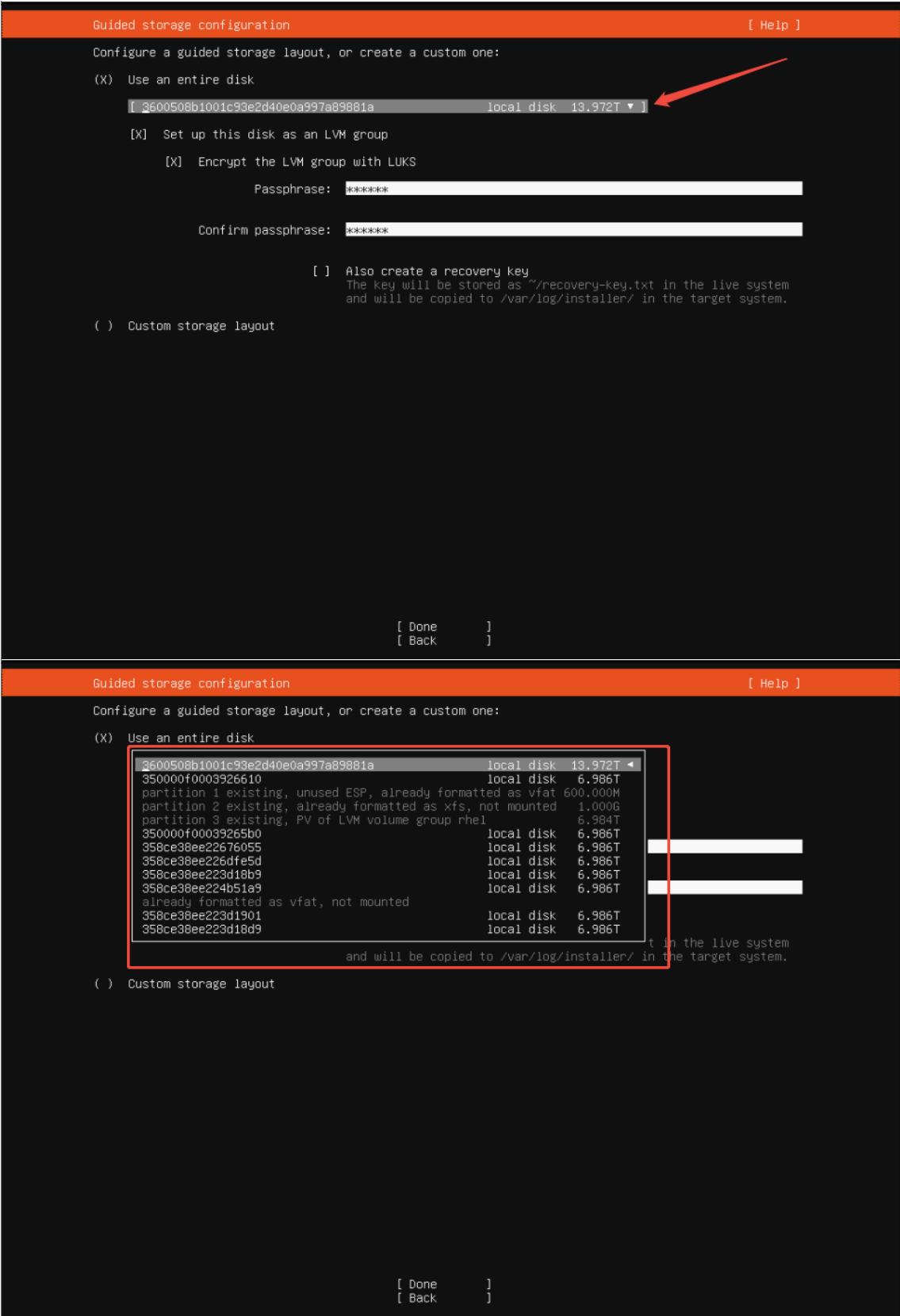
Mirror address:

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]

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]

Storage configuration

[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 disk ▸]
[/boot/efi	1.049G	new fat32	new partition of local disk ▸]

AVAILABLE DEVICES

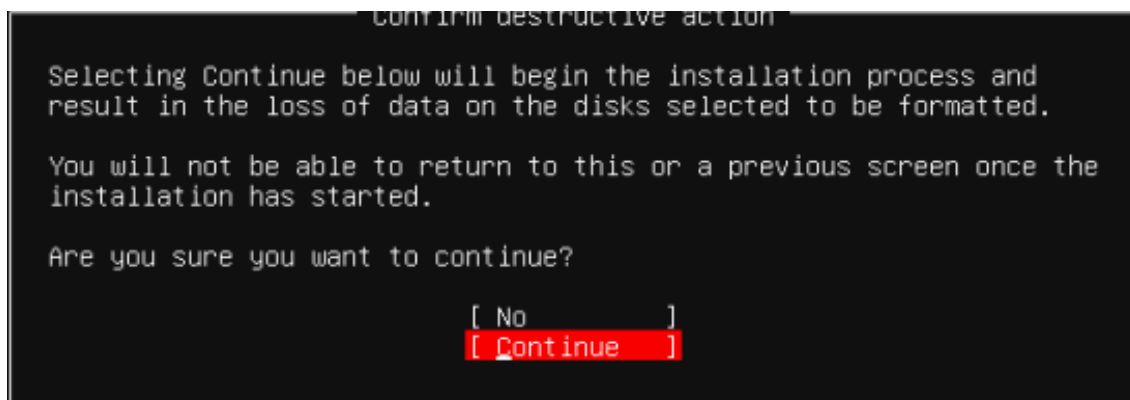
DEVICE	TYPE	SIZE
[ubuntu-vg (new, encrypted)	LVM volume group	6.983T ▸]
free space		6.885T ▸]
[rhel (existing)	LVM volume group	6.984T ▸]
home existing, already formatted as xfs, not mounted		6.885T ▸]
root existing, already formatted as xfs, not mounted		70.000G ▸]
swap existing, unused		32.000G ▸]
[350000f00039265b0	local disk	6.986T ▸]
free space		6.986T ▸]
[350000f0003926610	local disk	6.986T ▸]
partition 1 existing, unused ESP, already formatted as vfat		600.000M ▸]
partition 2 existing, already formatted as xfs, not mounted		1.000G ▸]
[358ce38ee223d18d9	local disk	6.986T ▸]
free space		6.986T ▸]
[358ce38ee223d1901	local disk	6.986T ▸]
free space		6.986T ▸]
[358ce38ee224b51a9 (already formatted as vfat, not mounted)	local disk	6.986T ▸]
[358ce38ee22676055	local disk	6.986T ▸]
free space		6.986T ▸]
[358ce38ee226dfe5d	local disk	6.986T ▸]
free space		6.986T ▸]

[Done]

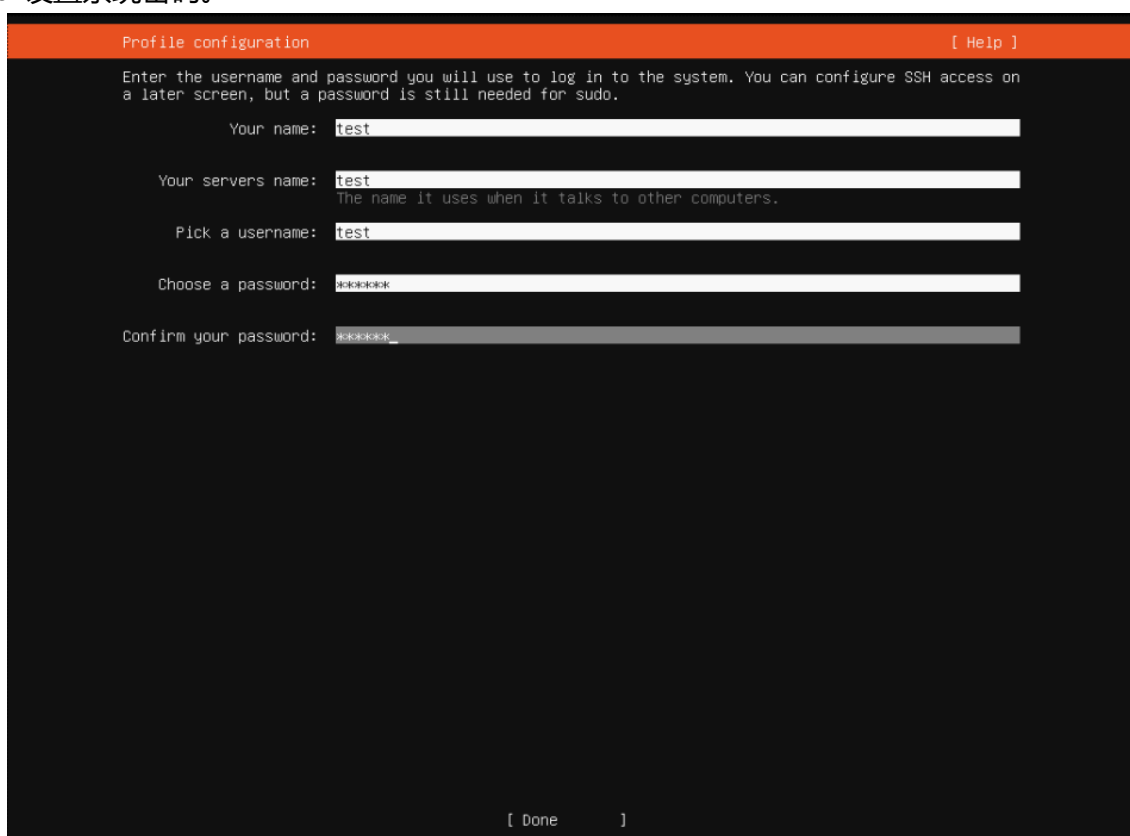
[Reset]

[Back]

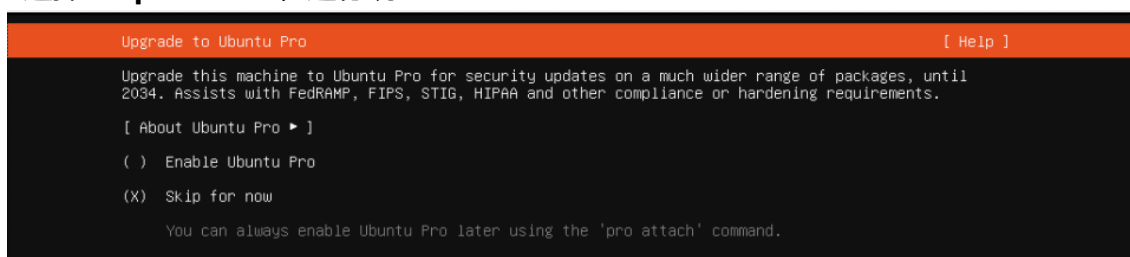
2.15 选择 **Continue**，继续安装。



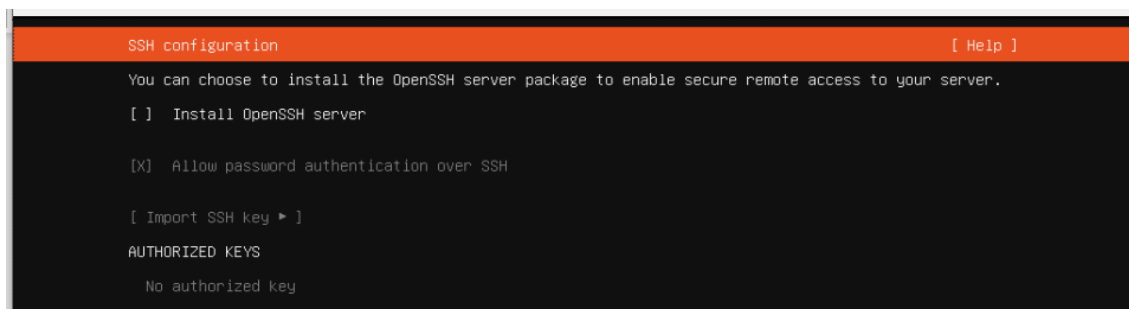
2.16 设置系统密码。



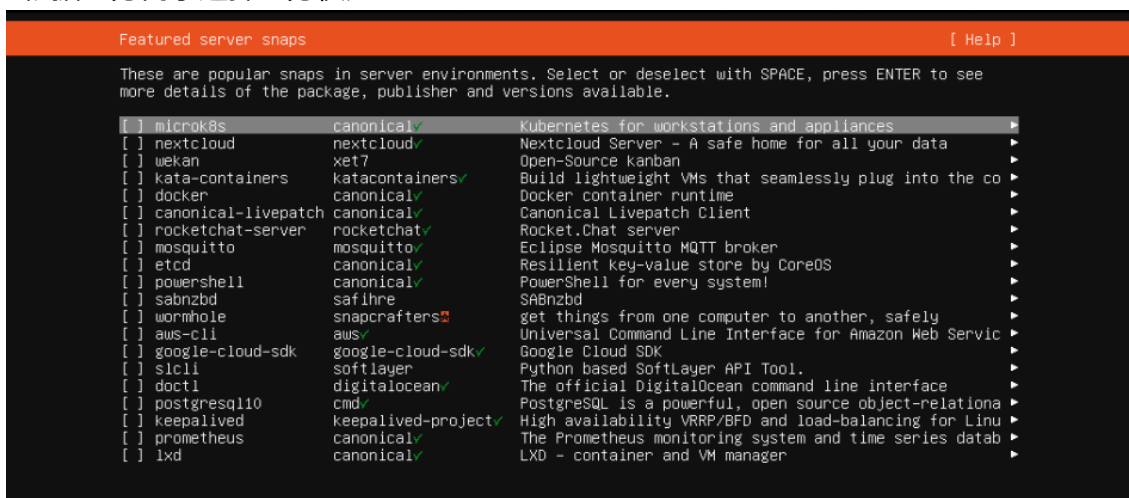
2.17 选择 Skip for now, 进行跳过。



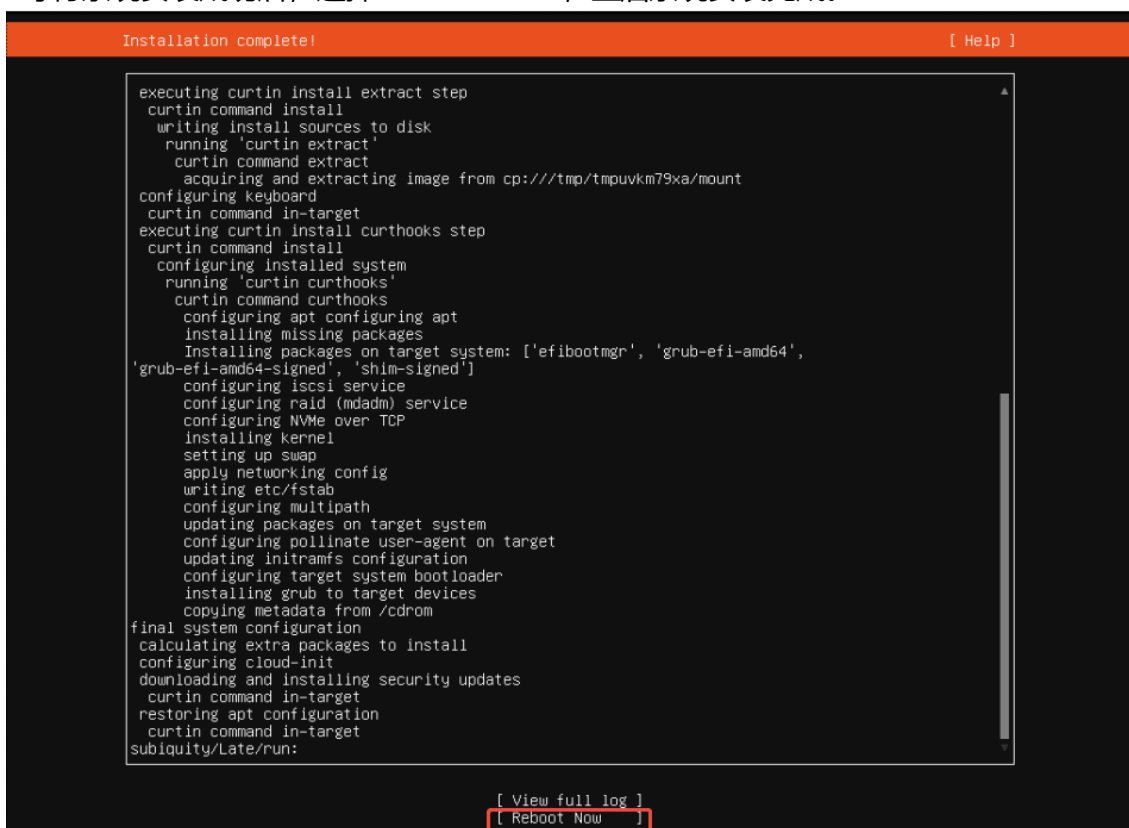
2.18 根据业务需求设置是否需要 ssh 功能。



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，选择 **Reboot now**，重启系统安装完成。



```
Ubuntu 24.04 LTS test tty1

test login: test
Password:
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           Temperature:   42.0 C
Usage of /:   10.3% of 97.87GB Processes:    618
Memory usage: 0%           Users logged in: 0
Swap 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 WARRANTY, 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:~$
```