

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>

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。

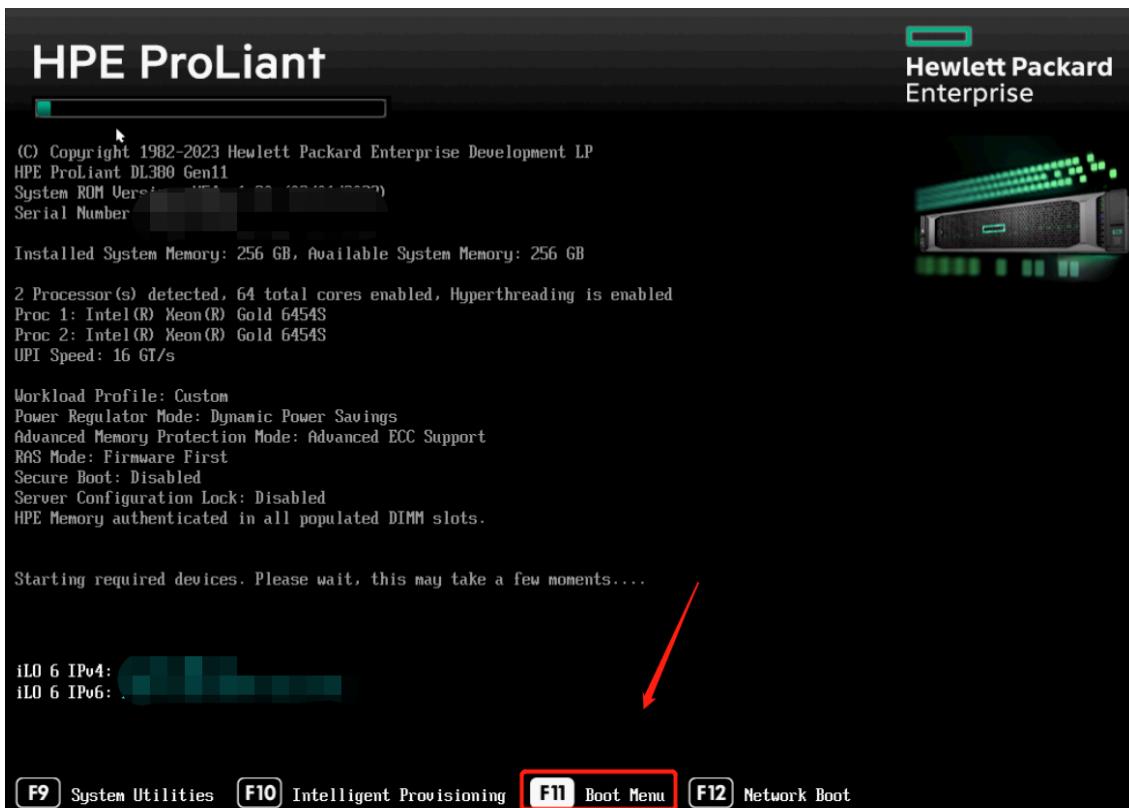
请将已制作完成的启动 U 盘插入服务器 USB 接口，然后参考下一步继续。



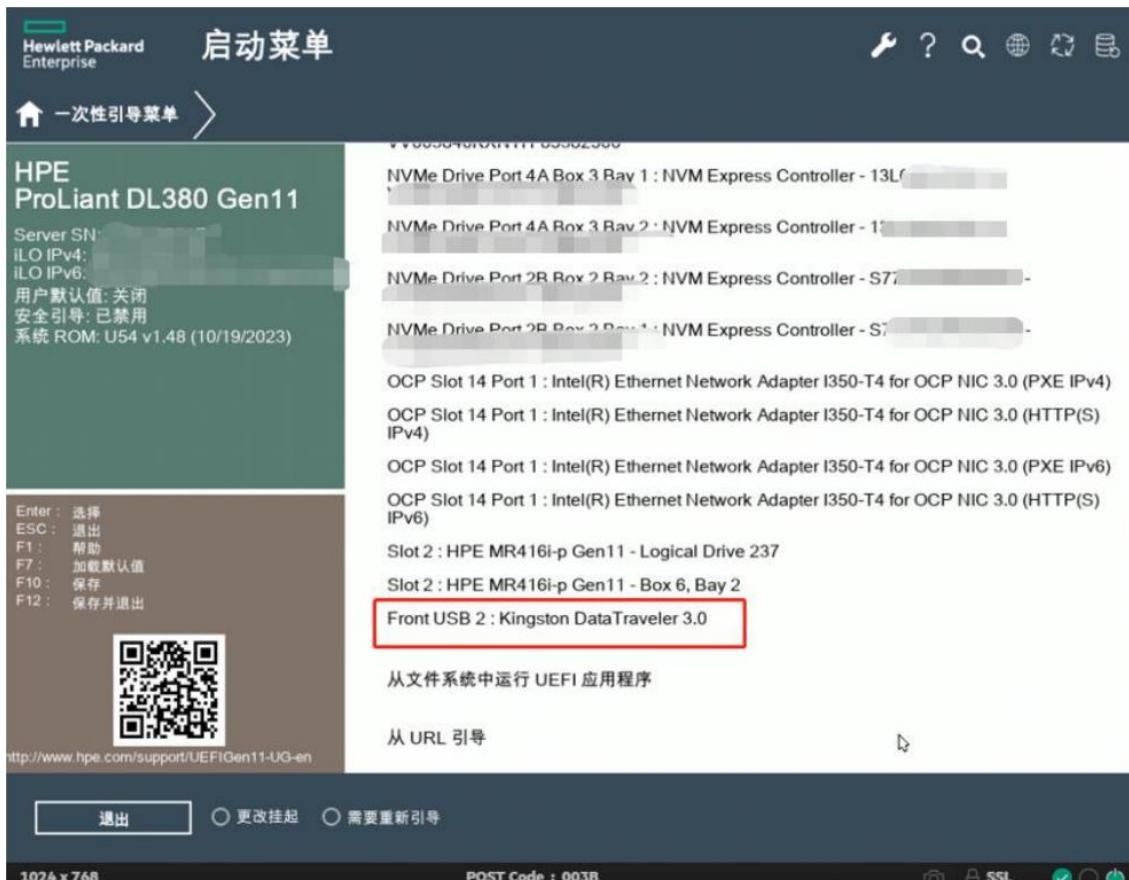
注：请勿将启动 U 盘连接到虚框标识的 iLO USB 服务接口。引导 U 盘的可用接口标识为 $\bullet \leftarrow$ 和 $ss \leftarrow$ 。

2. 引导系统安装

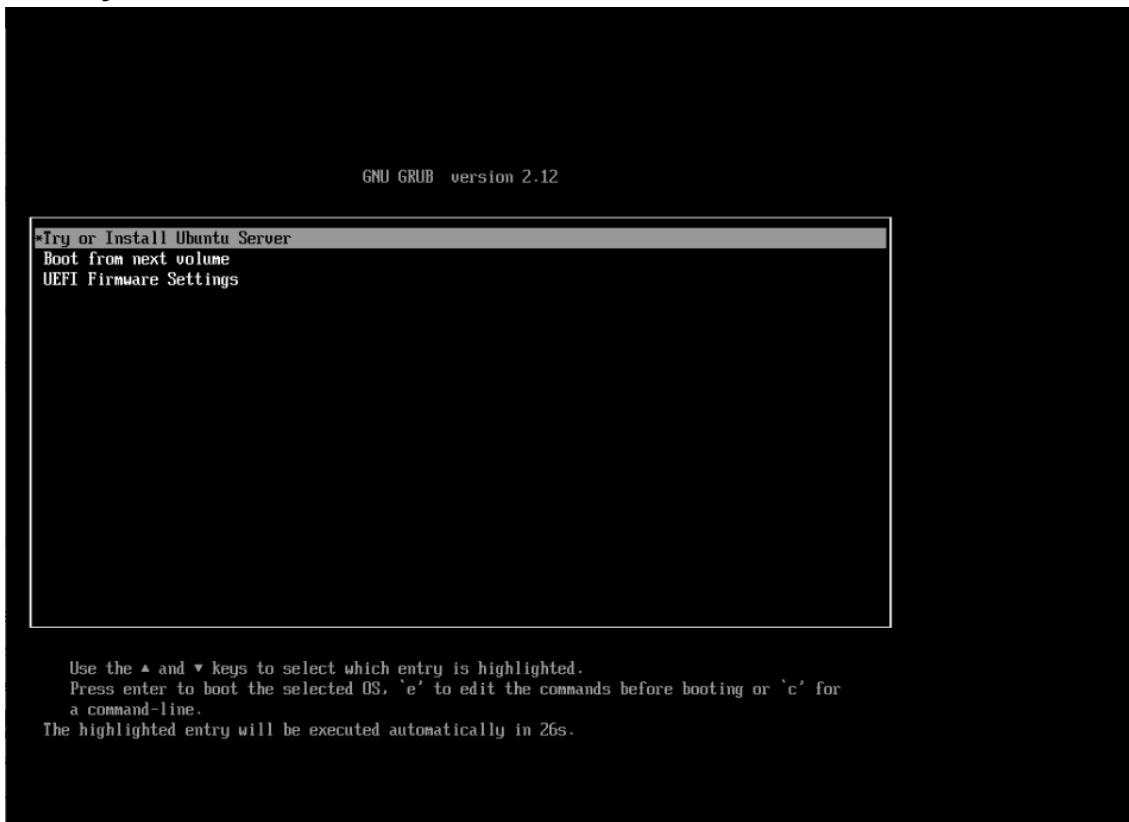
2.1 在开机自检界面按下 **F11**，选择启动项。



2.2 进入到一次性启动菜单，选择从 USB 引导。



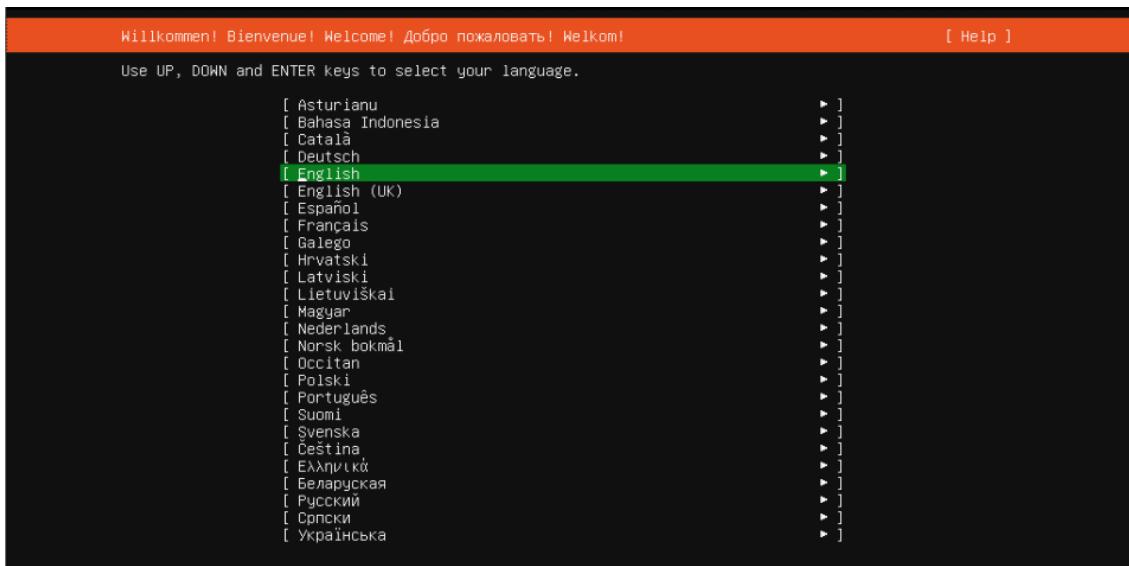
2.3 选择 Try or Install Ubuntu。



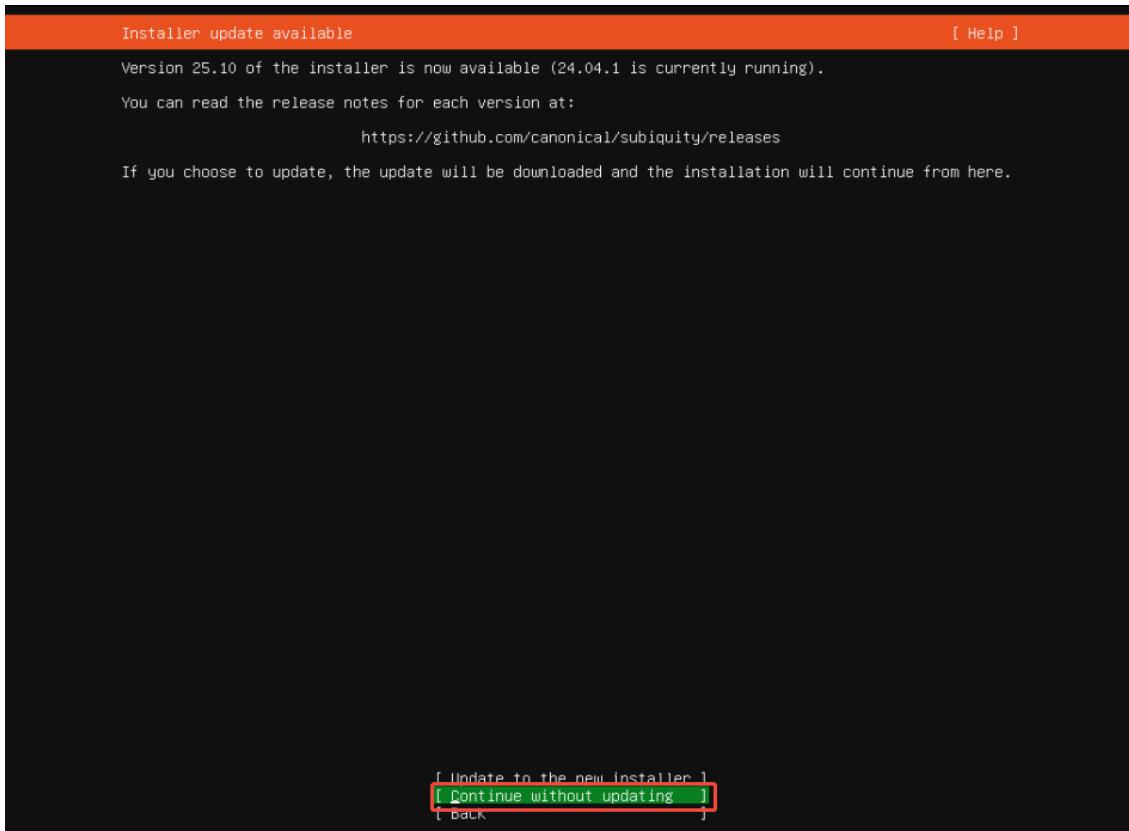
2.4 正在加载引导进安装界面。

```
[ OK ] Reached target paths.target - Path Units.
[ OK ] Reached target timers.target - Timer Units.
[ OK ] Listening on cloud-init-hotplugd.socket - cloud-init hotplug hook socket.
[ OK ] Listening on dbus.socket - D-Bus System Message Bus Socket.
[ OK ] Listening on iscsid.socket - Open-SCSI iscsid Socket.
    Starting lxd-installer.socket - Helper to install lxd snap on demand...
    Starting snapd.socket - Socket activation for snappy daemon...
[ OK ] Listening on ssh.socket - OpenBSD Secure Shell server socket.
[ OK ] Listening on uuidd.socket - UUID daemon activation socket.
[ OK ] Reached target remote-fs-pre.target - Preparation for Remote File Systems.
[ OK ] Reached target remote-fs.target - Remote File Systems.
[ OK ] Finished blk-availability.service - Availability of block devices.
[ OK ] Listening on lxd-installer.socket - Helper to install lxd snap on demand.
[ OK ] Listening on snapd.socket - Socket activation for snappy daemon.
[ OK ] Reached target sockets.target - Socket Units.
[ OK ] Reached target basic.target - Basic System.
    Starting systemd-logind.service - User Login Management...
    Starting apport.service - automatic crash report generation...
    Starting cloud-config.service - Apply the settings specified in cloud-config...
[ OK ] Started cron.service - Regular background program processing daemon.
    Starting dbus.service - D-Bus System Message Bus...
[ OK ] Started dmesg.service - Save initial kernel messages after boot.
    Starting e2scrub_reap.service - Remove Stale Online ext4 Metadata Check Snapshots...
[ OK ] Reached target getty.target - Login Prompts.
    Starting polkit.service - Authorization Manager...
    Starting pollinate.service - Pollinate to seed the pseudo random number generator...
    Starting rsyslog.service - System Logging Service...
    Starting secureboot-db.service - Secure Boot updates for DB and DBX...
[ OK ] Reached target getty-pre.target - Preparation for Logins.
    Starting snapd_seeded.service - Wait until snapd is fully seeded...
    Starting snapd.service - Snap Daemon...
    Starting sysstat.service - Resets System Activity Logs...
    Starting thermald.service - Thermal Daemon Service...
    Starting udisks2.service - Disk Manager...
[ OK ] Started systemd-logind.service - User Login Management.
[ OK ] Started unattended-upgrades.service - Unattended Upgrades Shutdown.
[ OK ] Finished sysstat.service - Resets System Activity Logs.
[ OK ] Finished secureboot-db.service - Secure Boot updates for DB and DBX.
[ OK ] Finished e2scrub_reap.service - Remove Stale Online ext4 Metadata Check Snapshots.
[ OK ] Started thermald.service - Thermal Daemon Service.
[ OK ] Started rsyslog.service - System Logging Service.
[ OK ] Finished cloud-config.service - Apply the settings specified in cloud-config.
    Starting systemd-user-sessions.service - Permit User Sessions...
[ OK ] Finished systemd-user-sessions.service - Permit User Sessions.
    Starting plymouth-quit-wait.service - Hold until boot process finishes up...
    Starting plymouth-quit.service - Terminate Plymouth Boot Screen...
[ OK ] Finished plymouth-quit-wait.service - Hold until boot process finishes up.
```

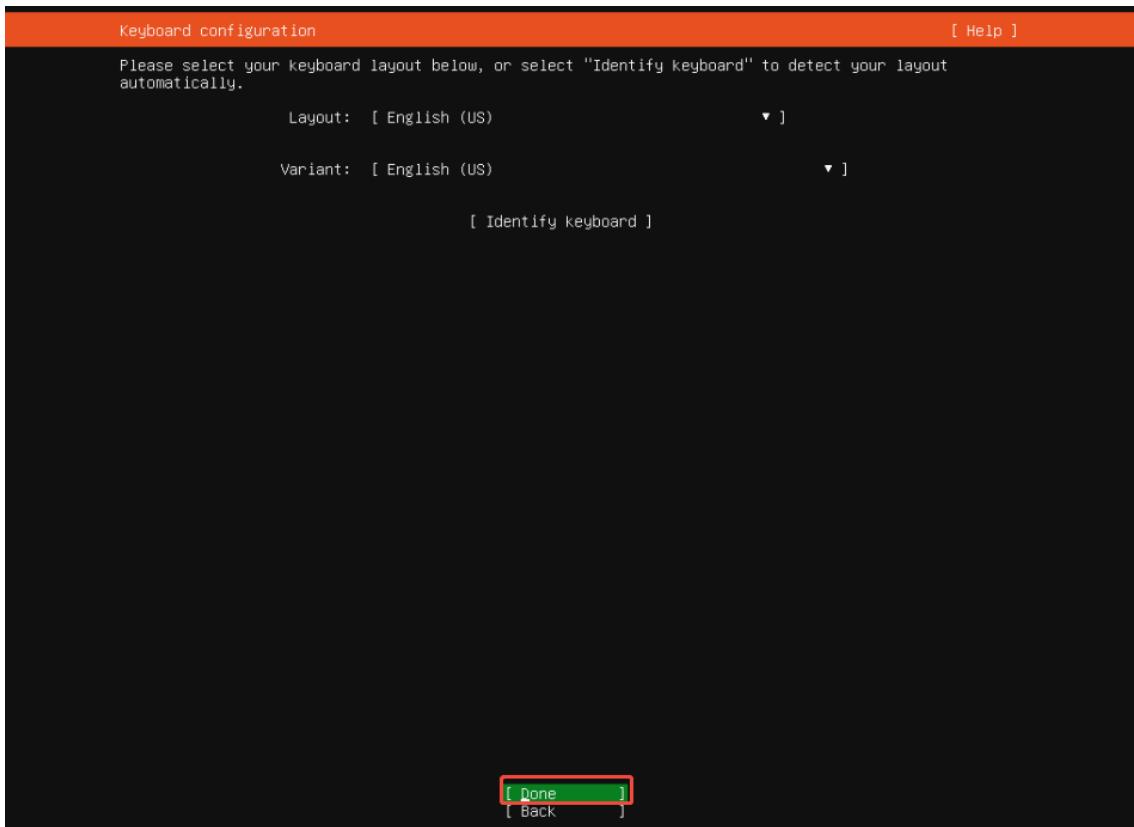
2.5 选择语言。



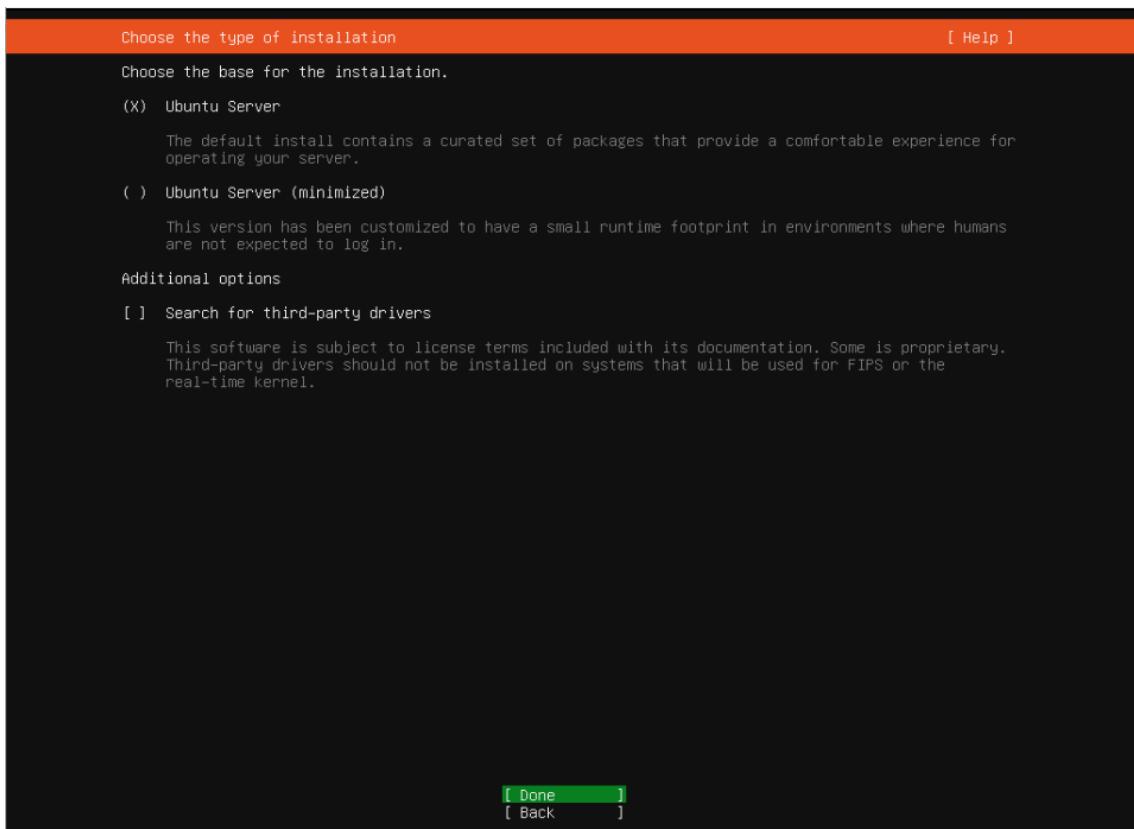
2.6 选择继续安装。



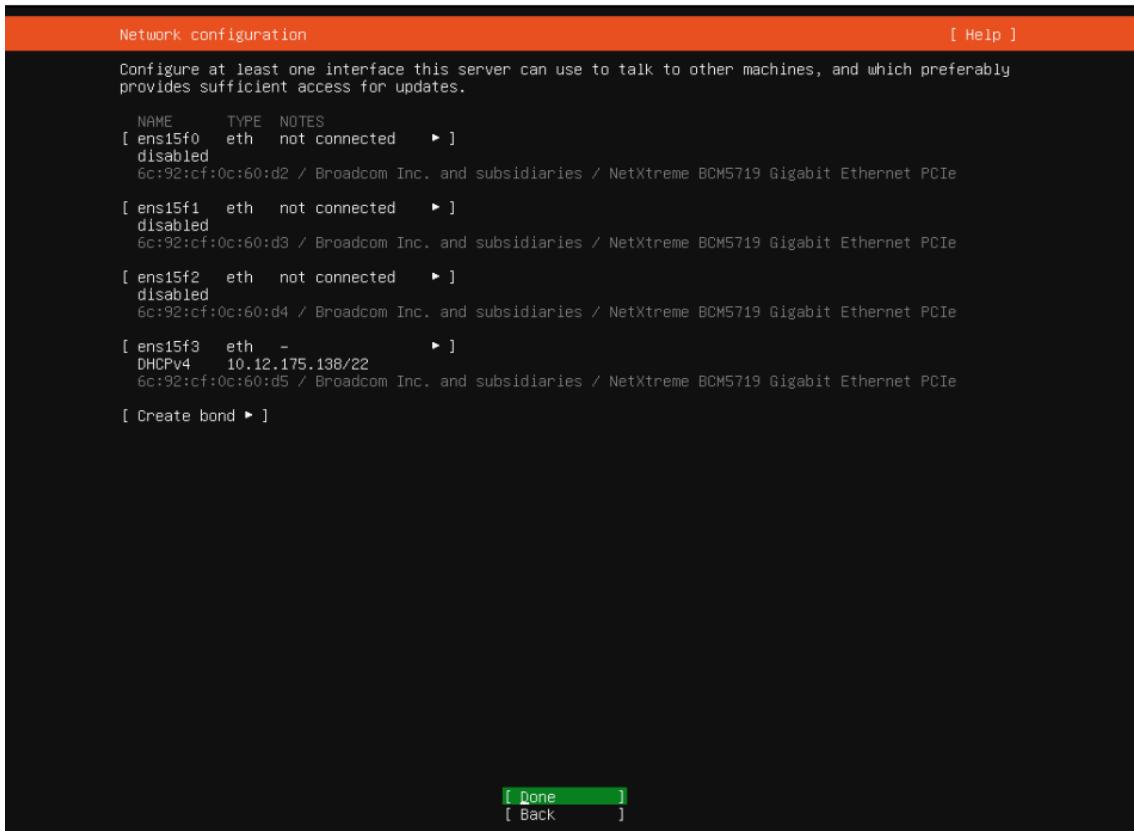
2.7 选择键盘类型后选中 Done 继续安装。



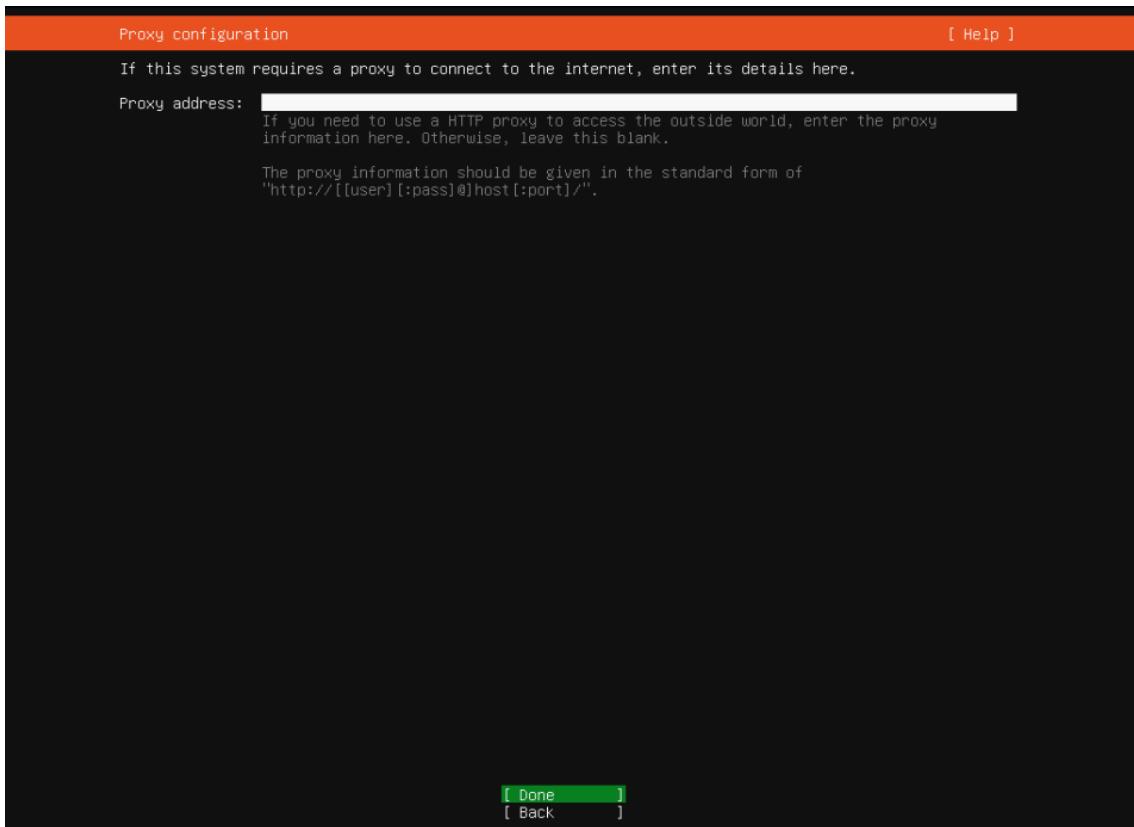
2.8 选择安装模式，正常安装或最小化安装，是否安装时下载更新 Ubuntu、安装第三方软件等。



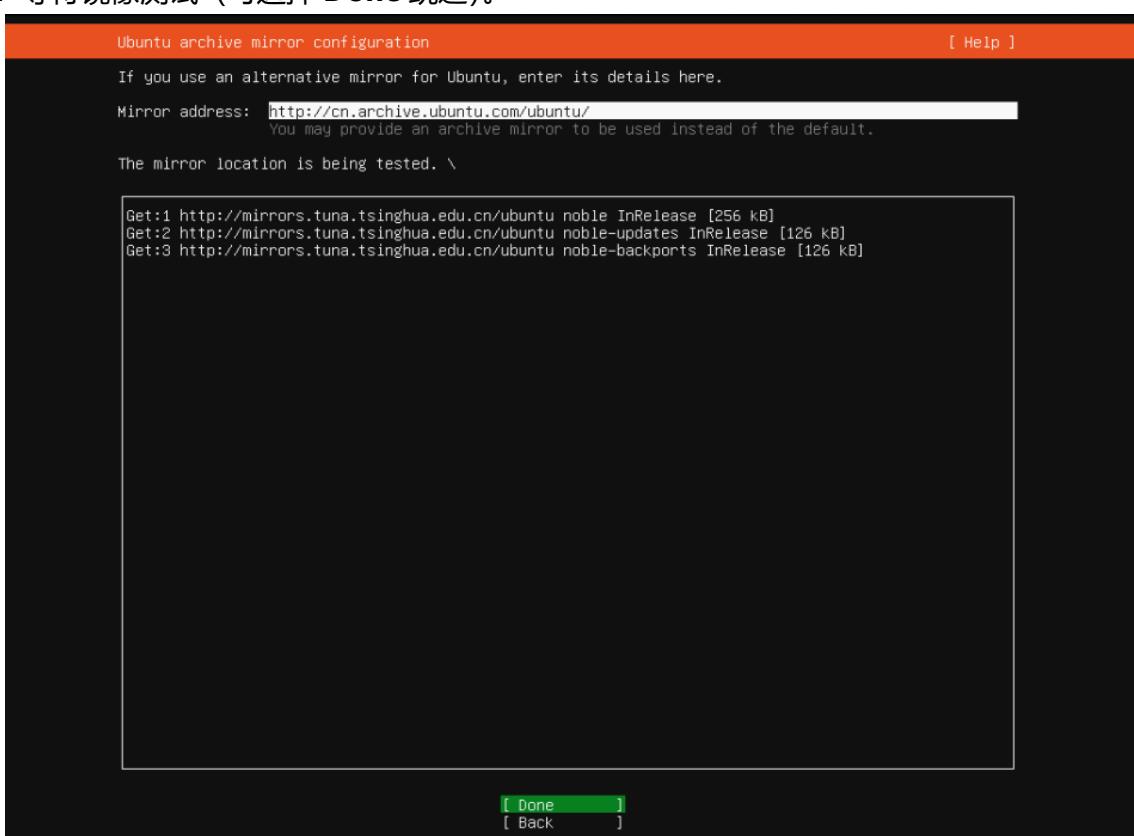
2.9 设置网卡的网口选择。



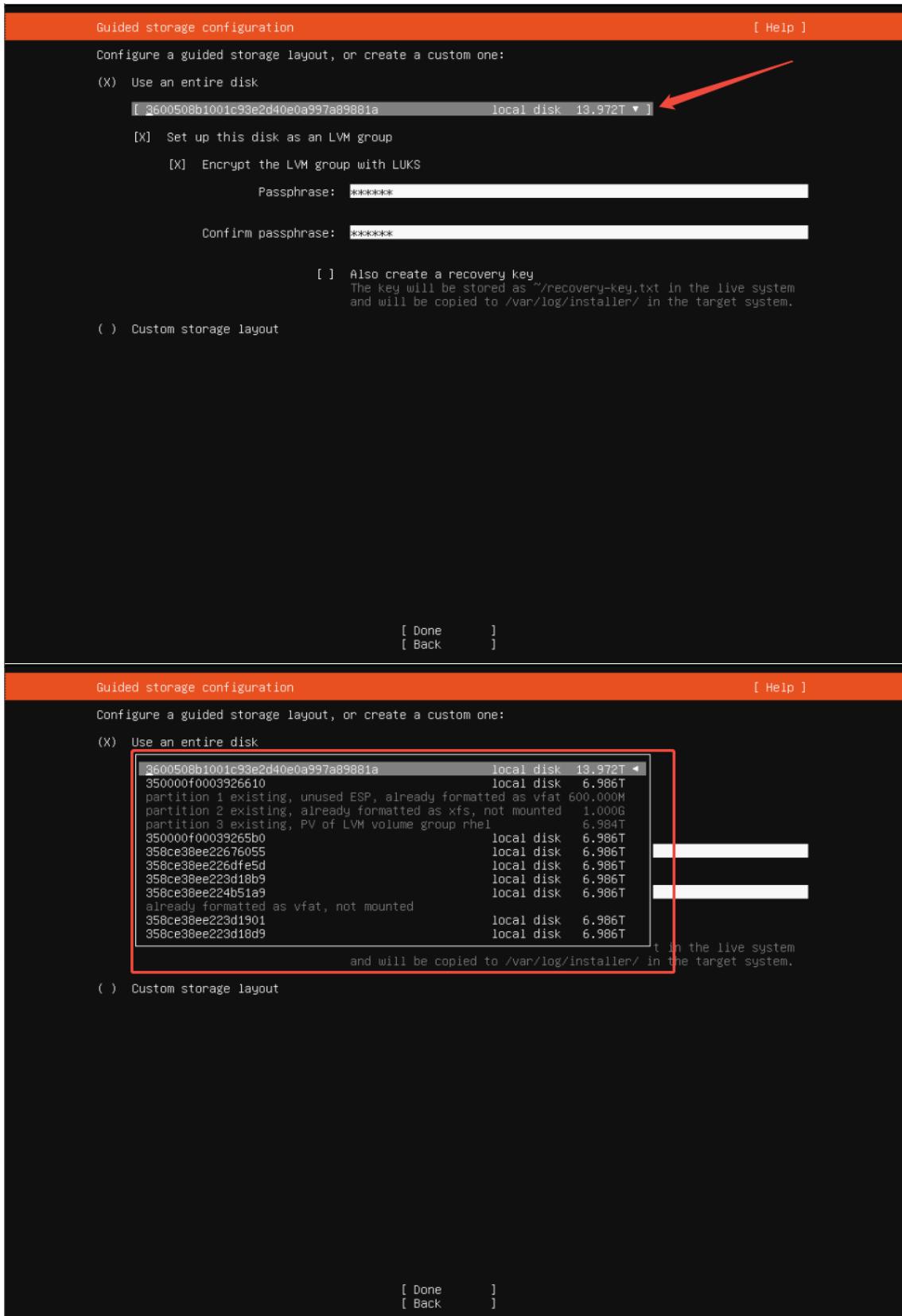
2.10 设置代理。



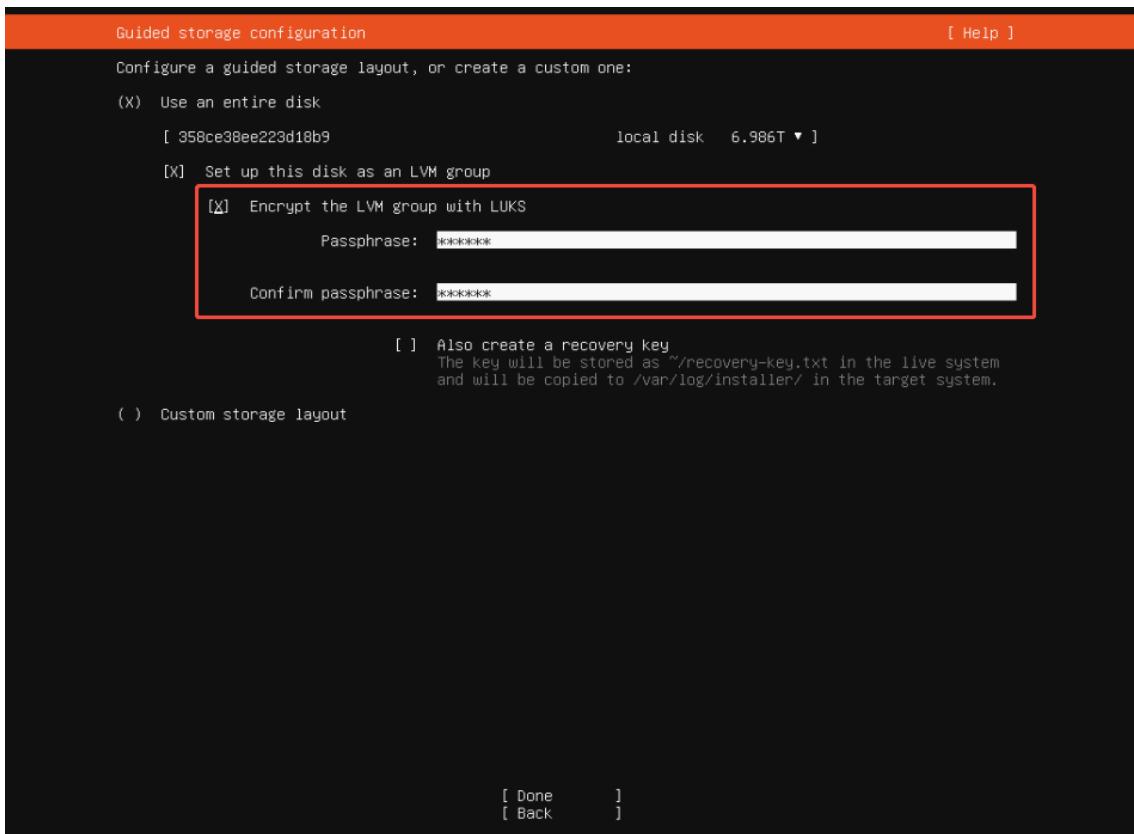
2.11 等待镜像测试（可选择 Done 跳过）。



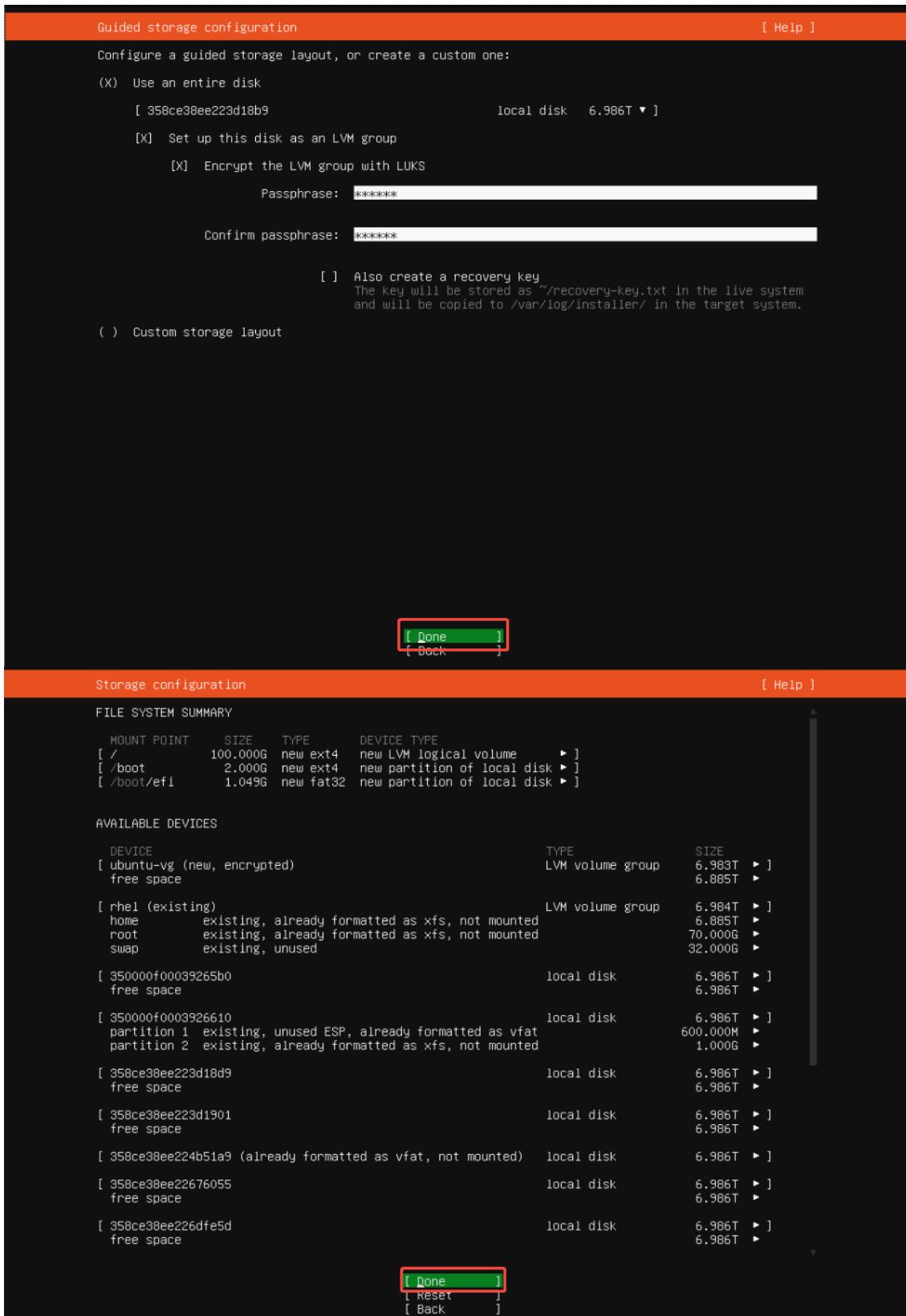
2.12 设置安装磁盘位置。



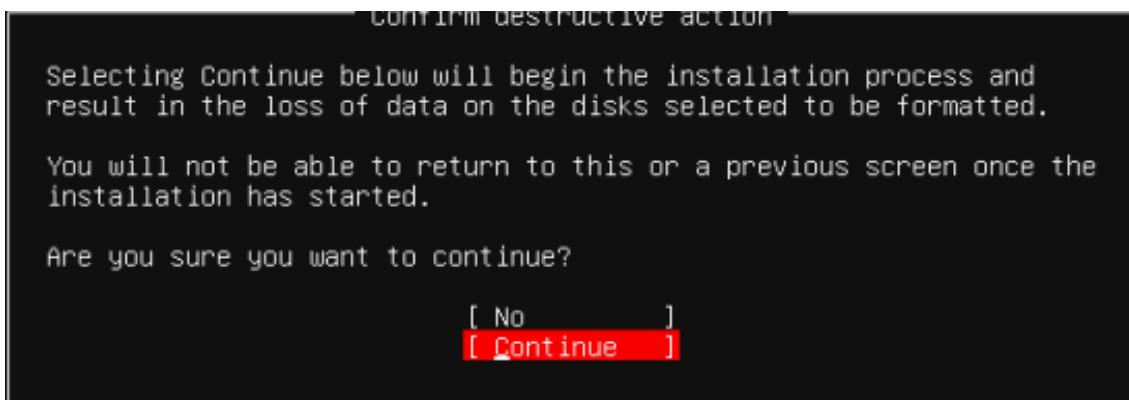
2.13 设置 LUKS 加密密码。



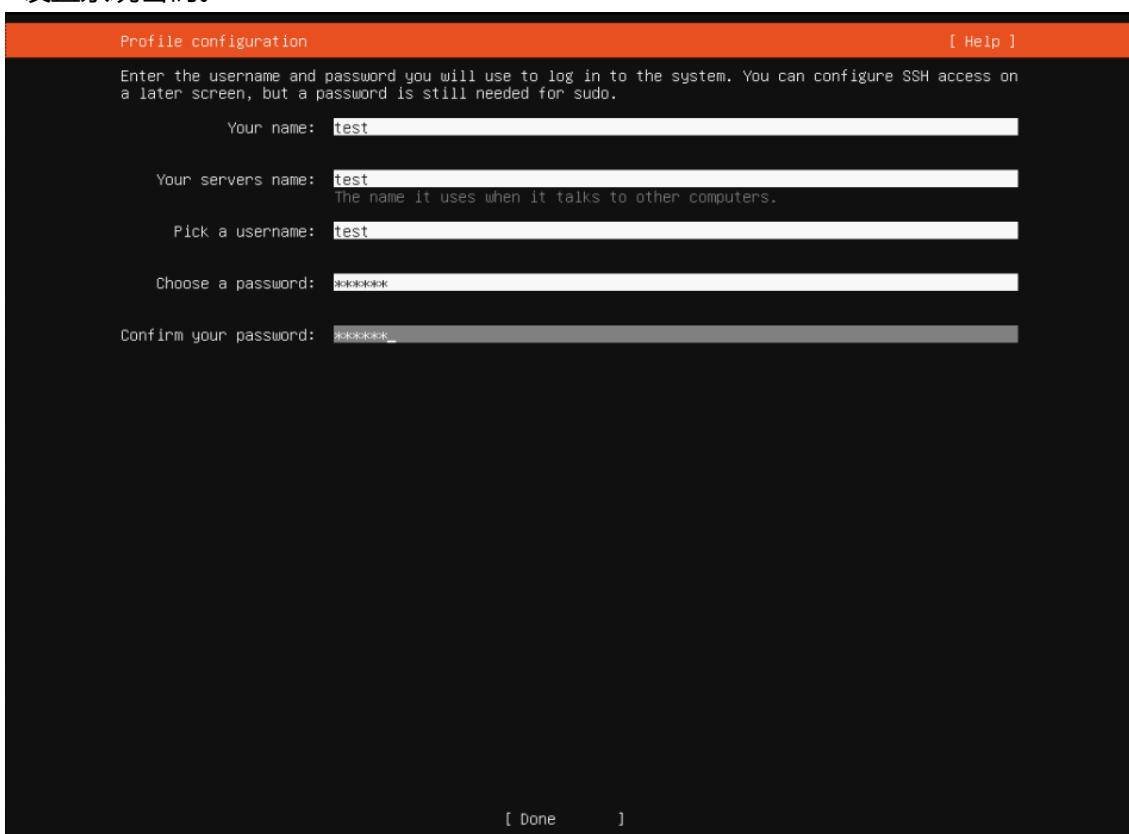
2.14 选择 Done 继续安装。



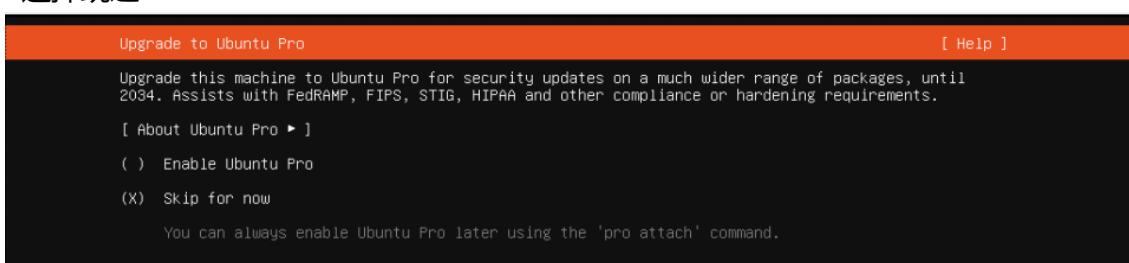
2.15 选择继续安装。



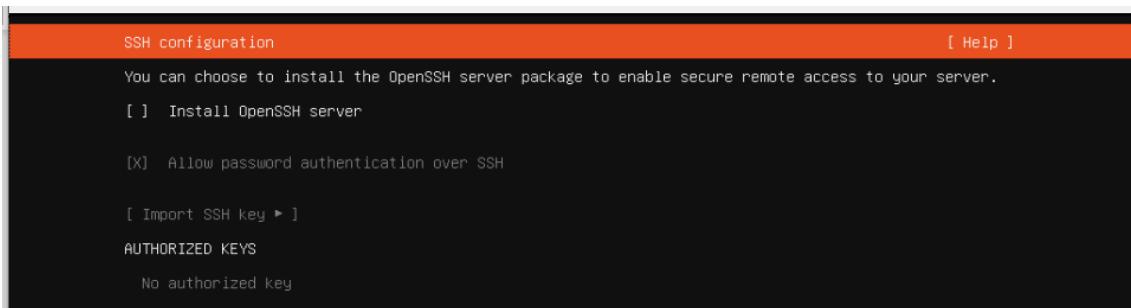
2.16 设置系统密码。



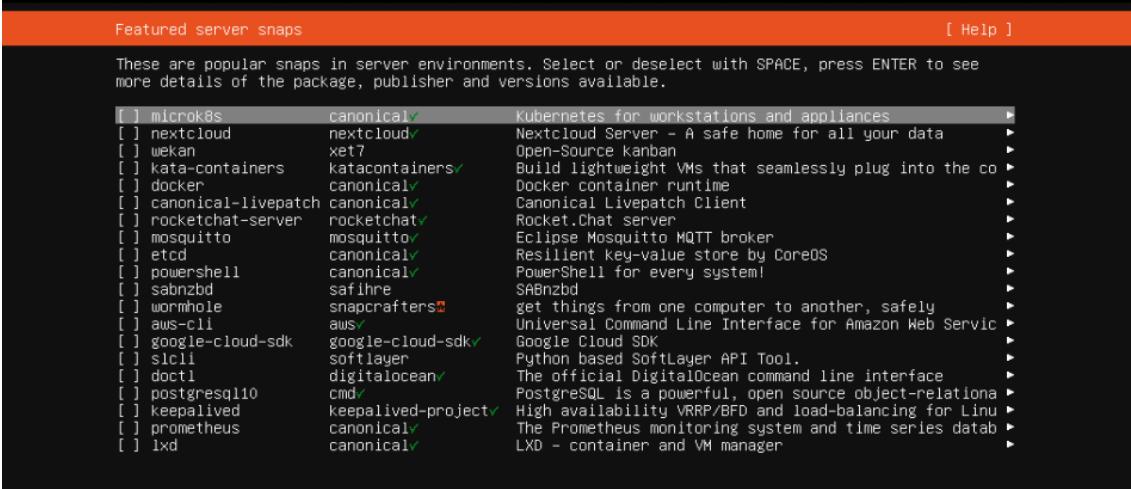
2.17 选择跳过



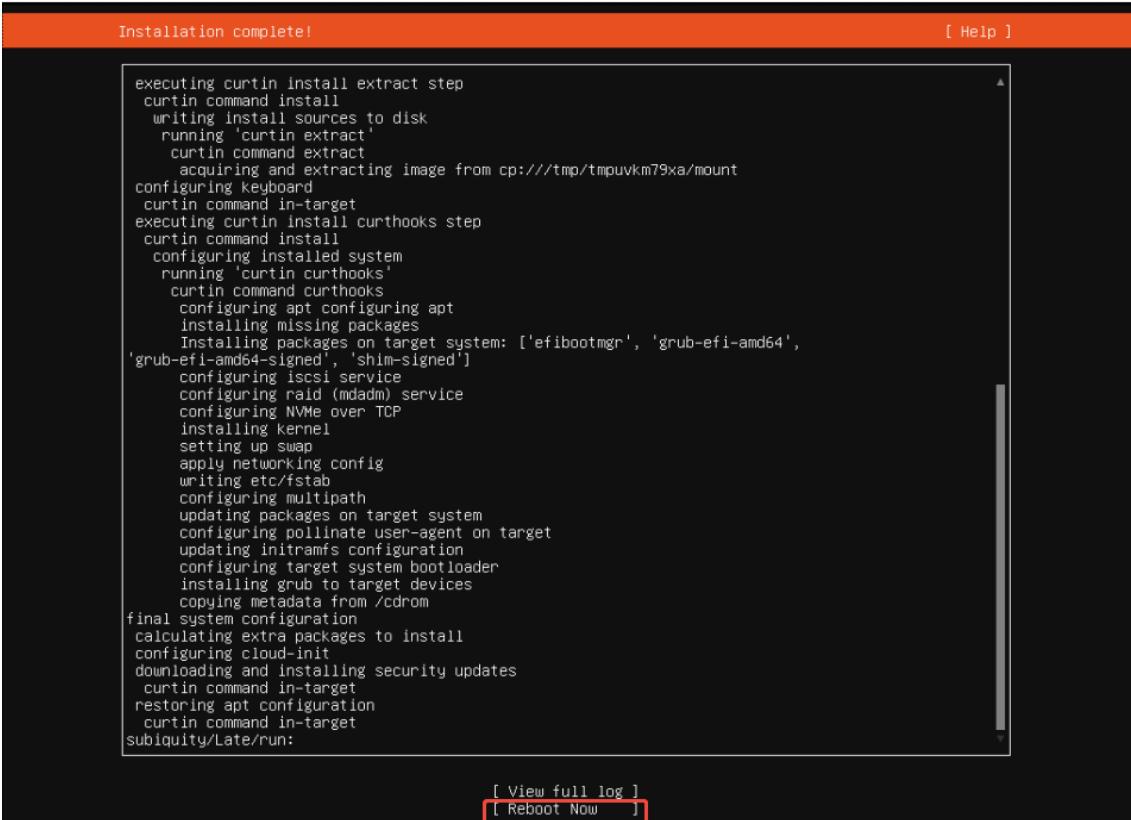
2.18 根据业务需求设置是否需要 ssh 功能。



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。



```
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:~$
```