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

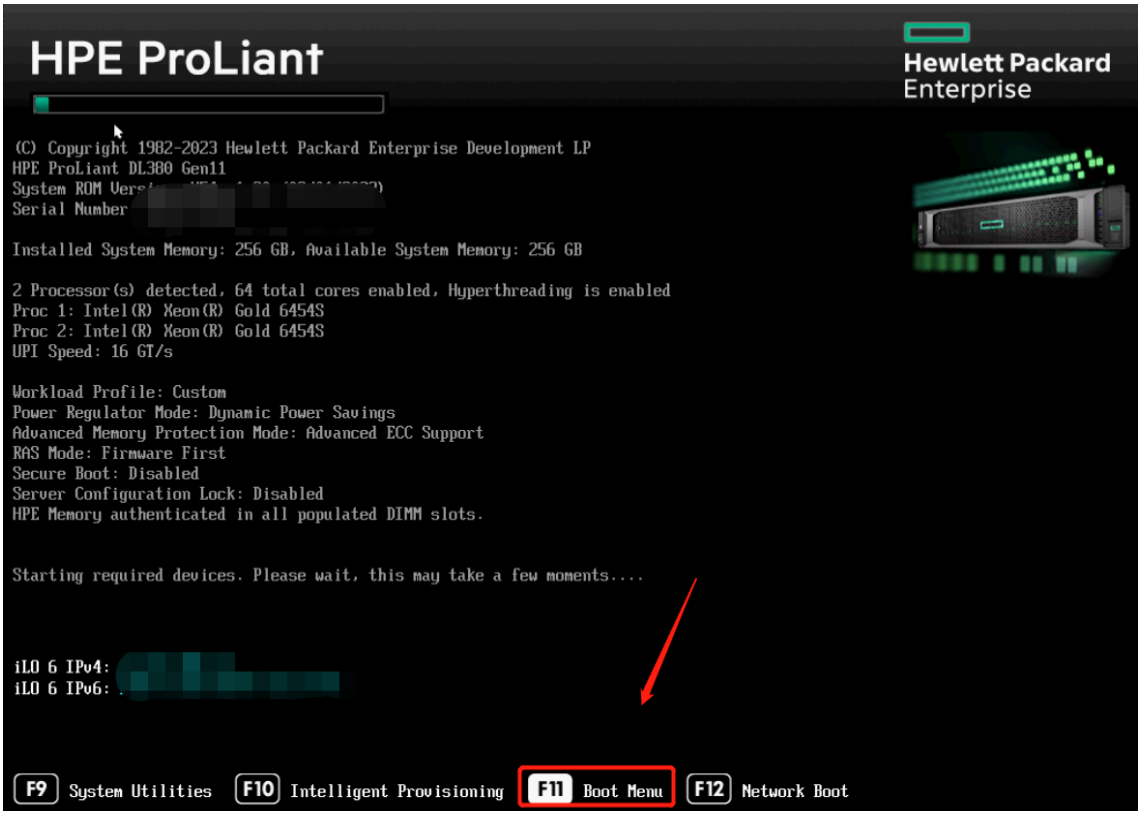
1. 系统兼容性查询
   具体确认方法请参考：https://zhiliao.h3c.com/Theme/details/216161

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

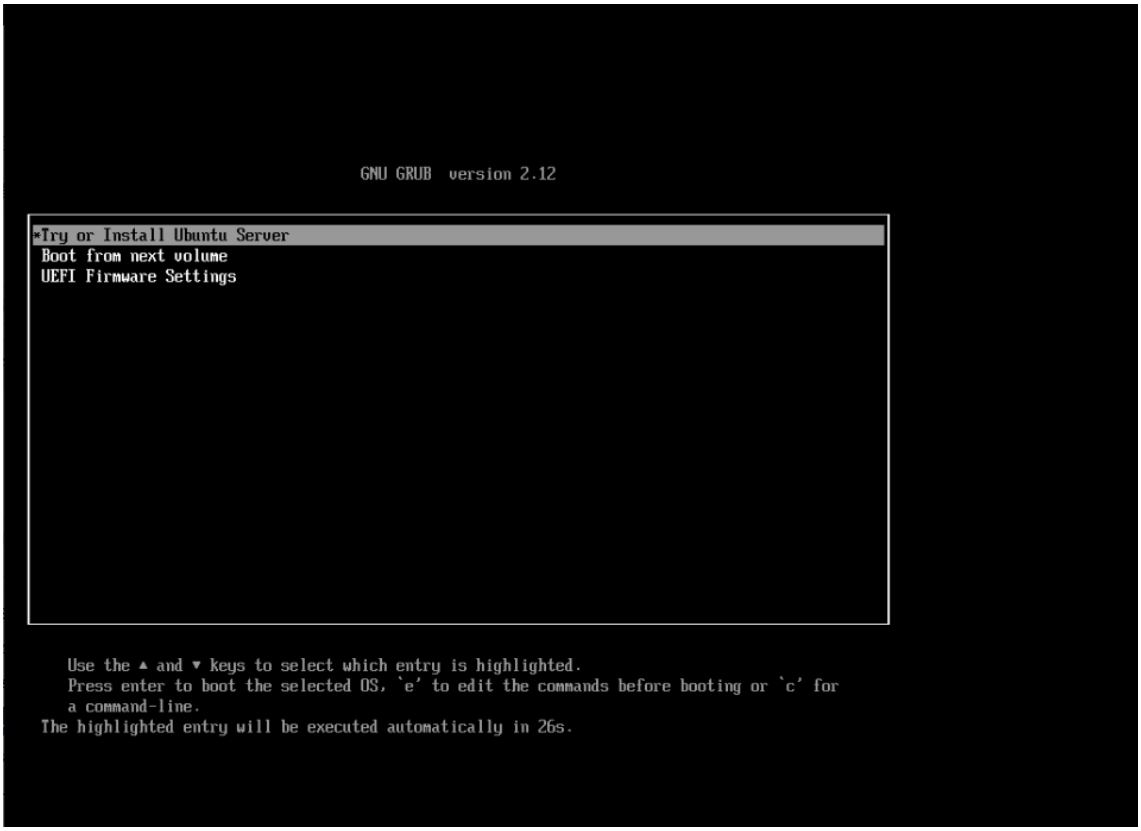
1. 挂安装启动 U 盘
   服务器通常默认配置多个 USB 接口，对外接口一般位于前后两侧面板。下图以 2U 服务器为例，可在右侧挂耳附近看到 USB 接口。
   请将已制作完成的启动 U 盘插入服务器 USB 接口，然后参考下一步继续。

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

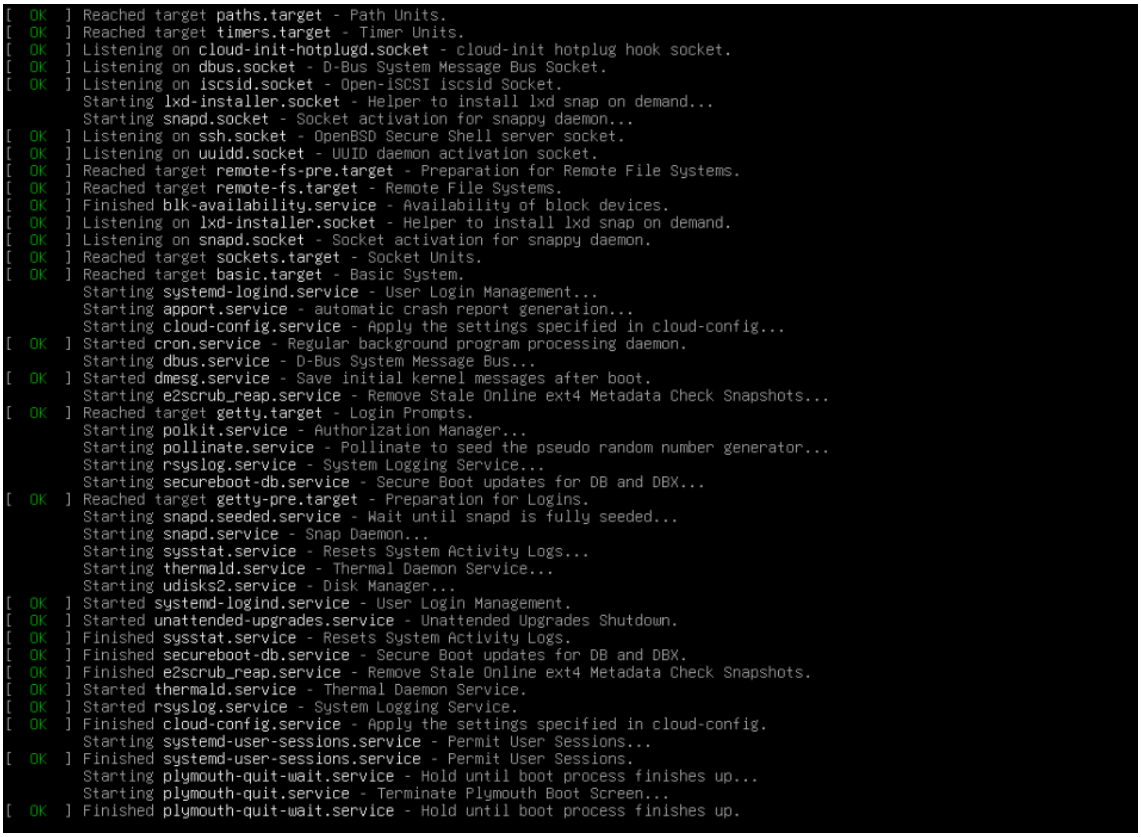


2.2 进入到一次性启动菜单，选择从 USB 引导。

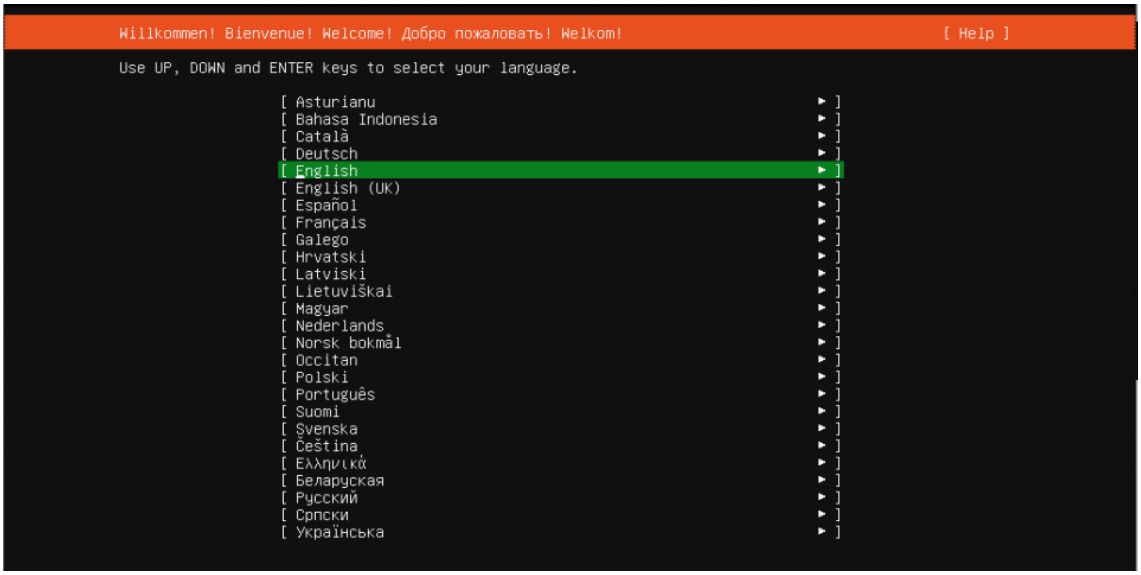
2.3 选择 **Try or Install Ubuntu。**



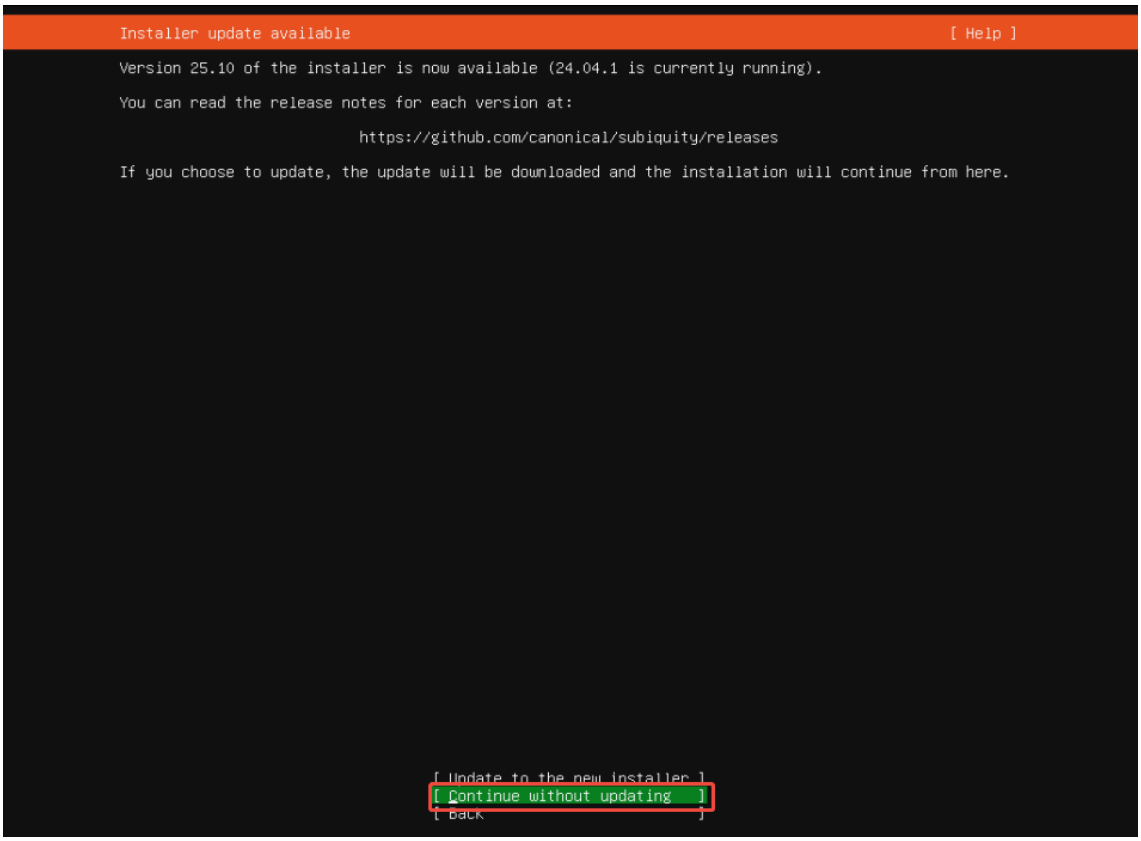
2.4 正在加载引导进安装界面。



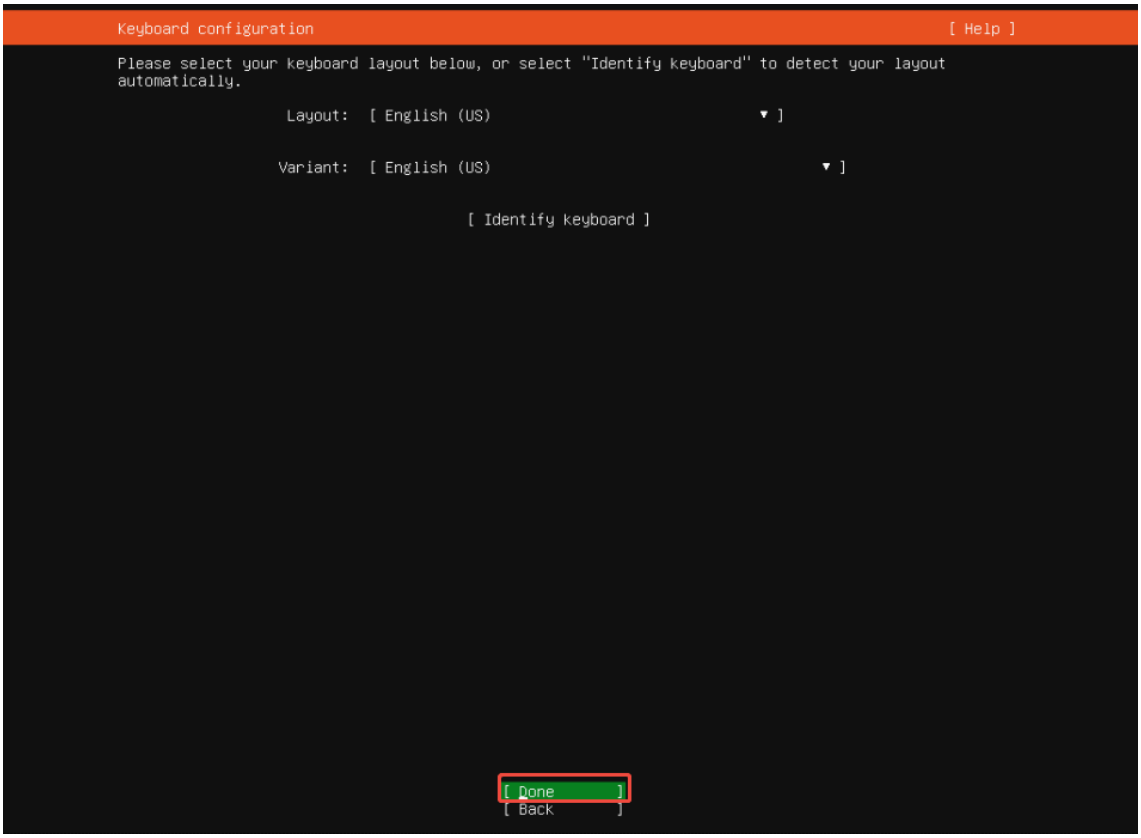
2.5 选择语言。



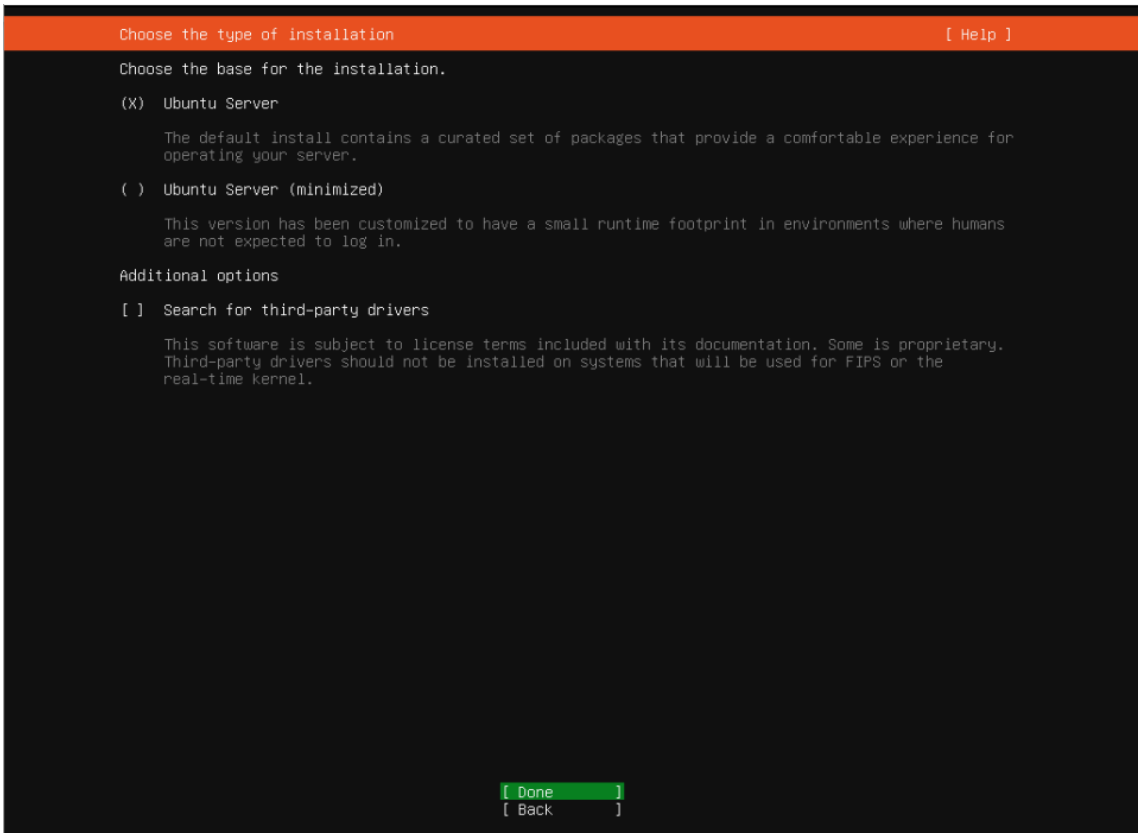
2.6 选择继续安装。



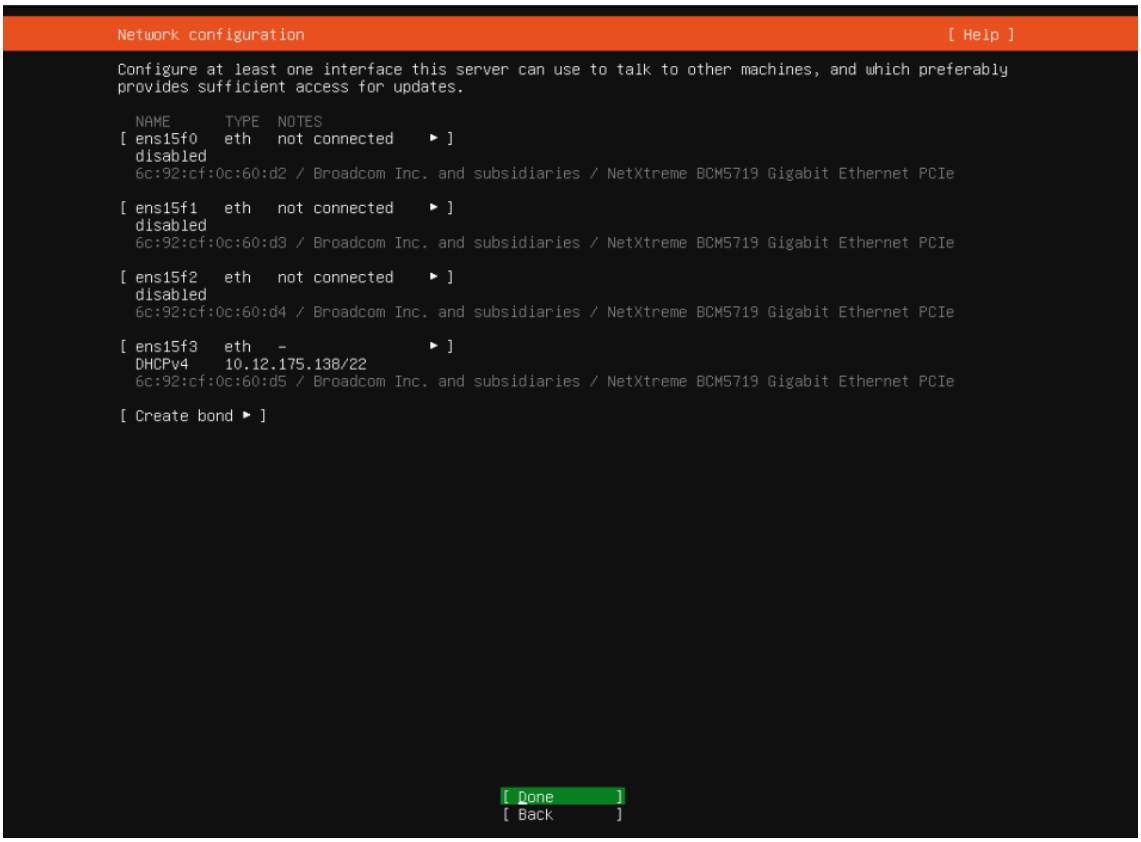
2.7 选择键盘类型后选中 **Done** 继续安装。



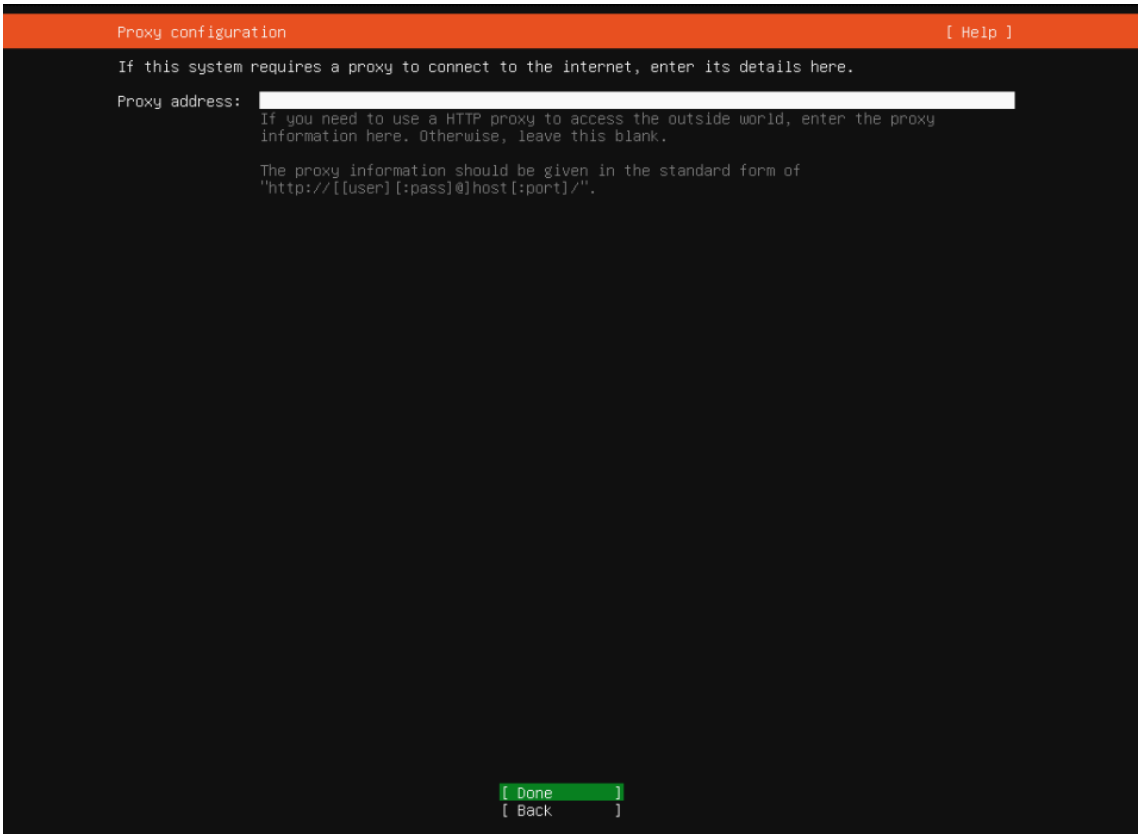
2.8 选择安装模式，正常安装或最小化安装，是否安装时下载更新 Ubuntu、安装第三方软件等。



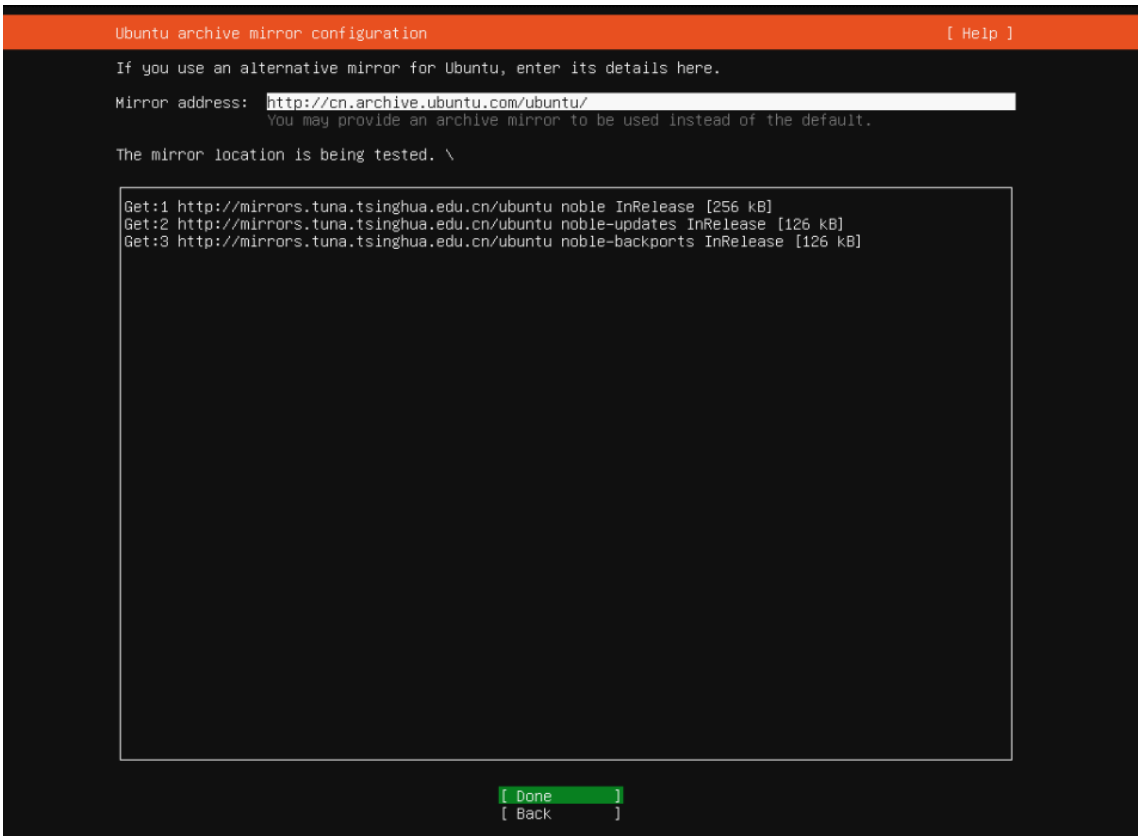
2.9 设置网卡的网口选择。



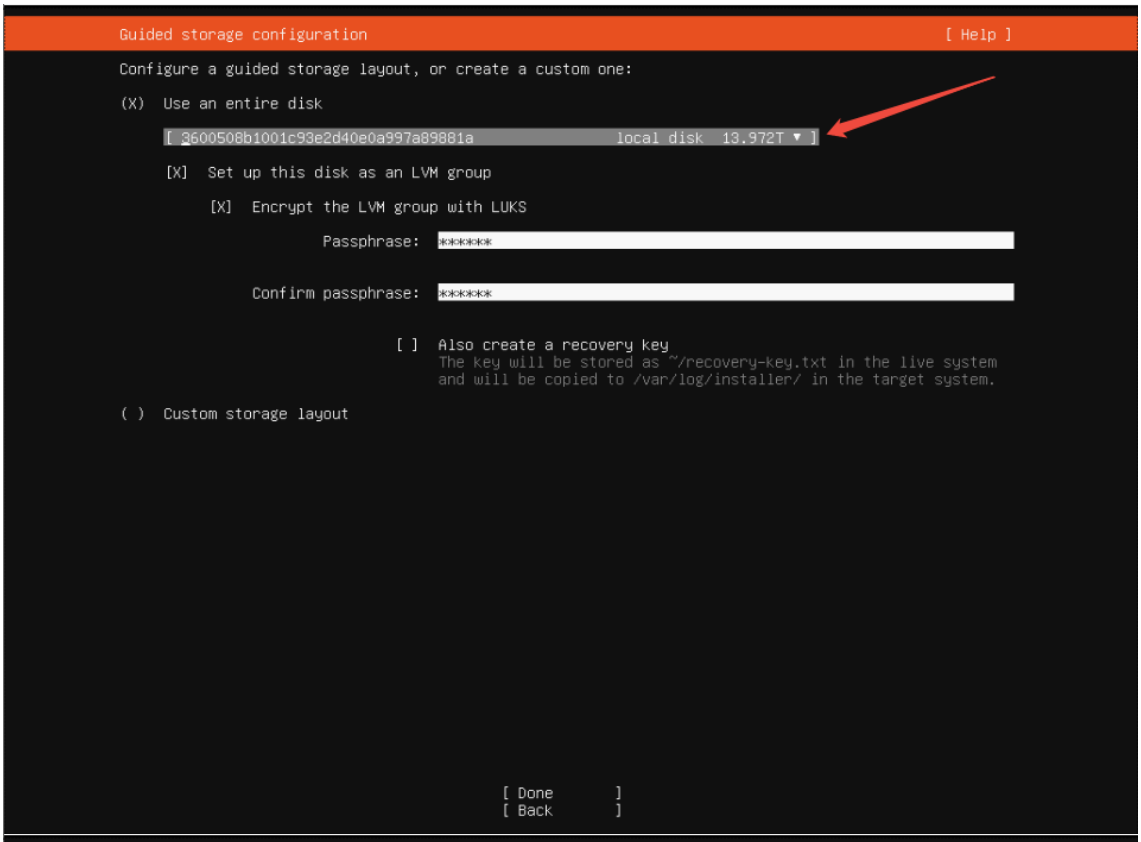
2.10 设置代理。

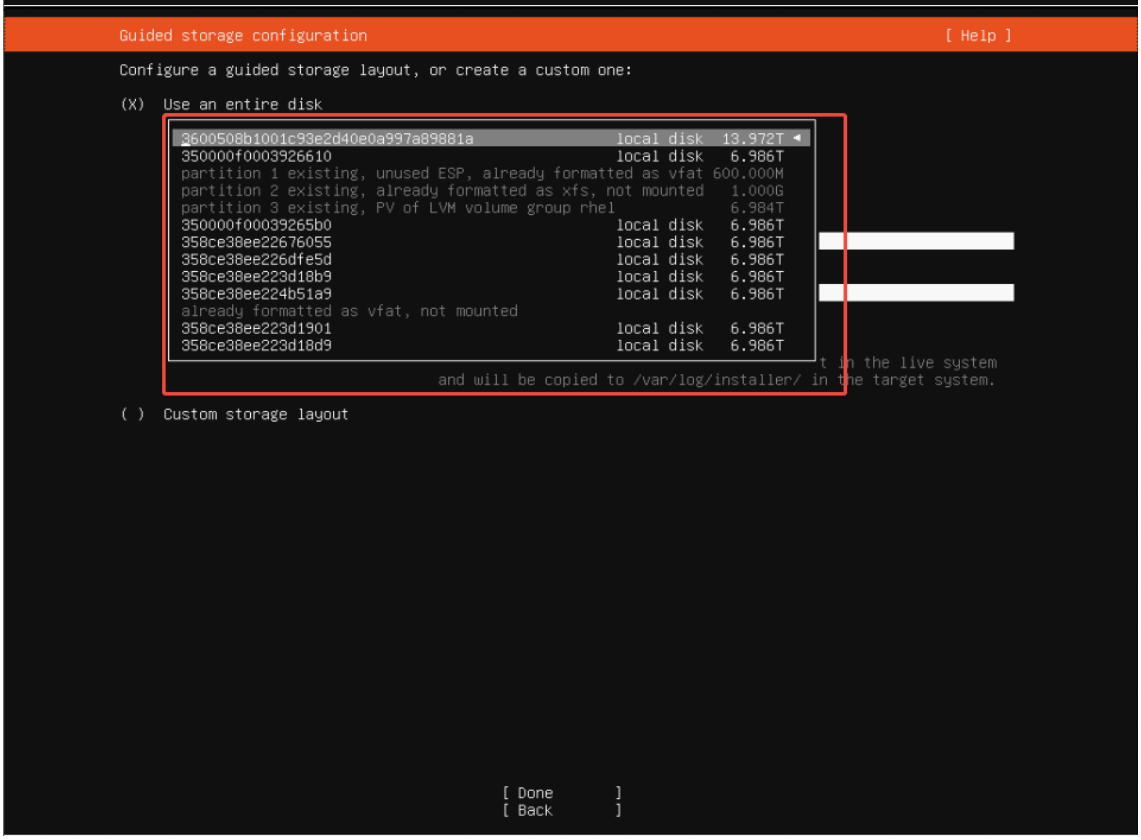


2.11 等待镜像测试（可选择 **Done** 跳过）。

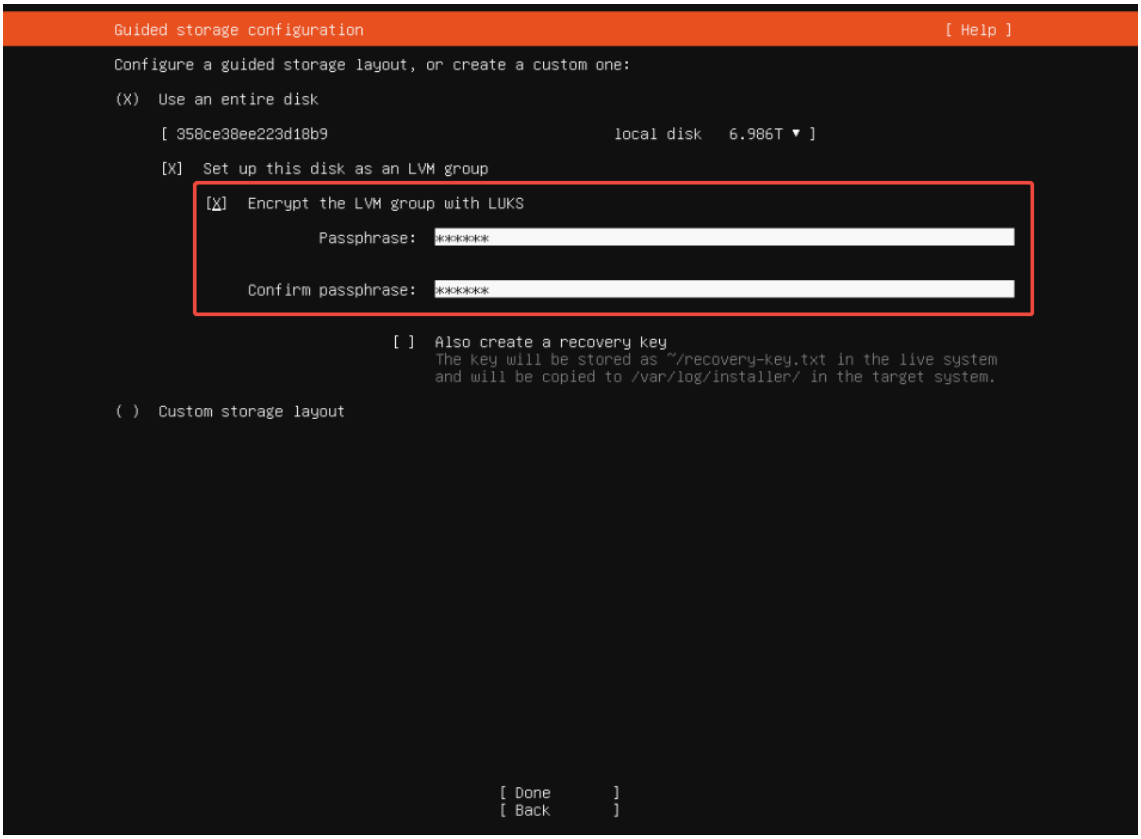


2.12 设置安装磁盘位置。

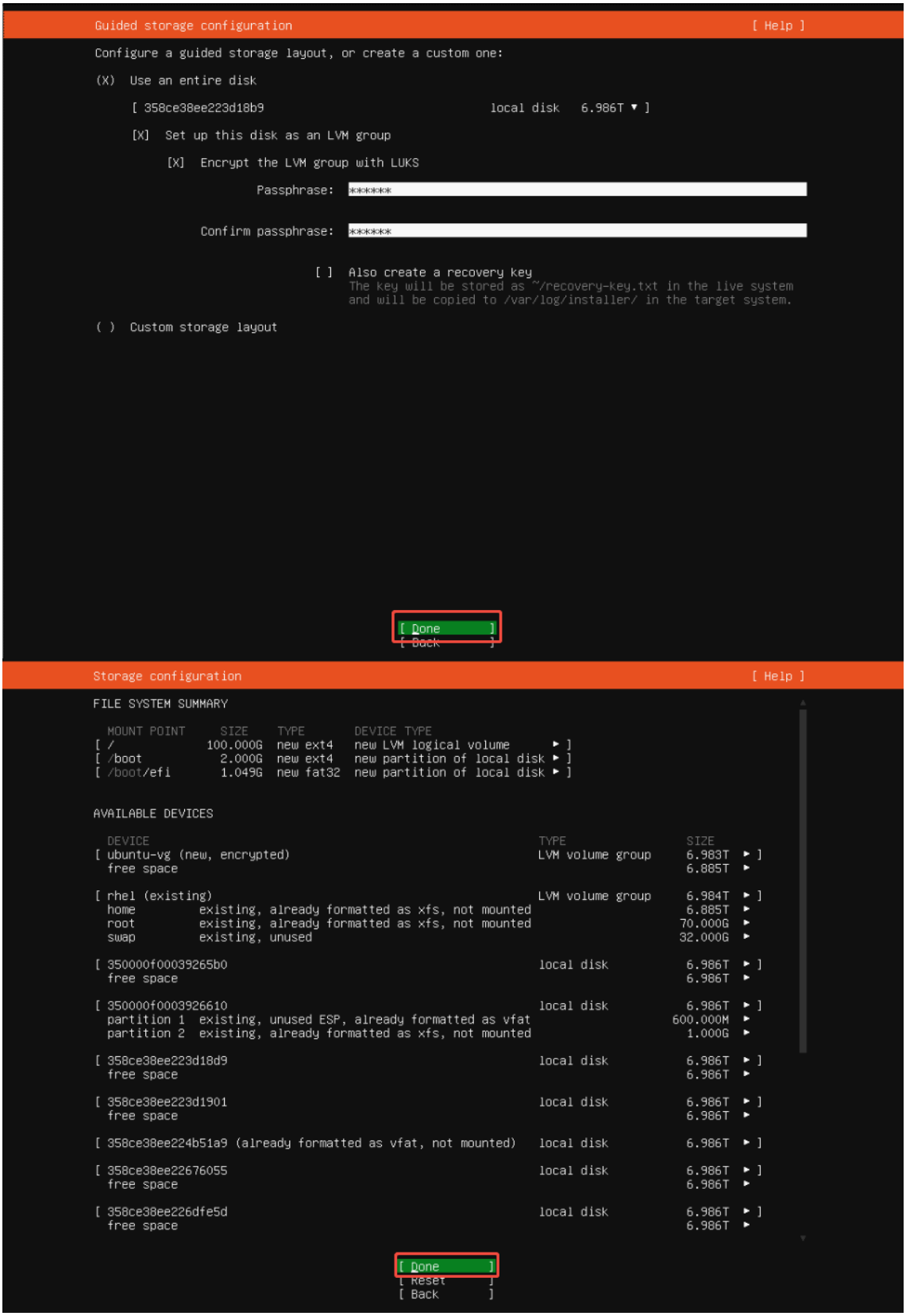




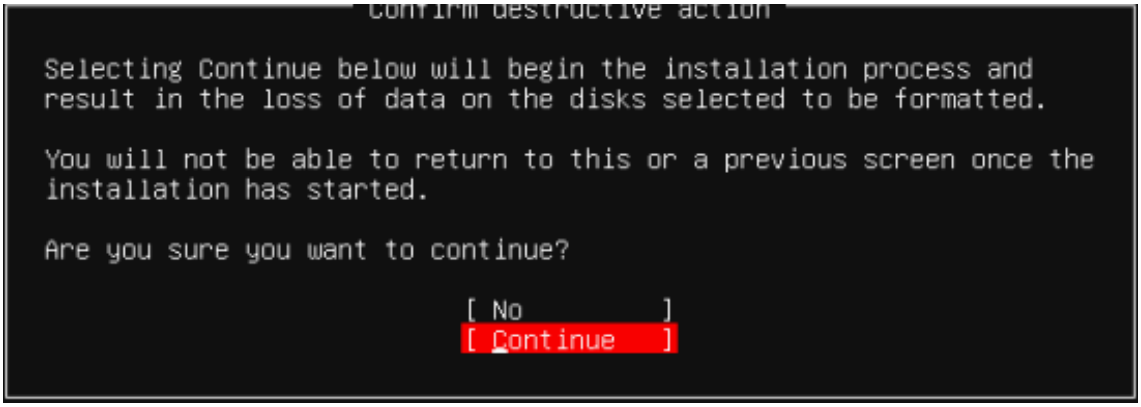
2.13 设置 LUKS 加密密码。



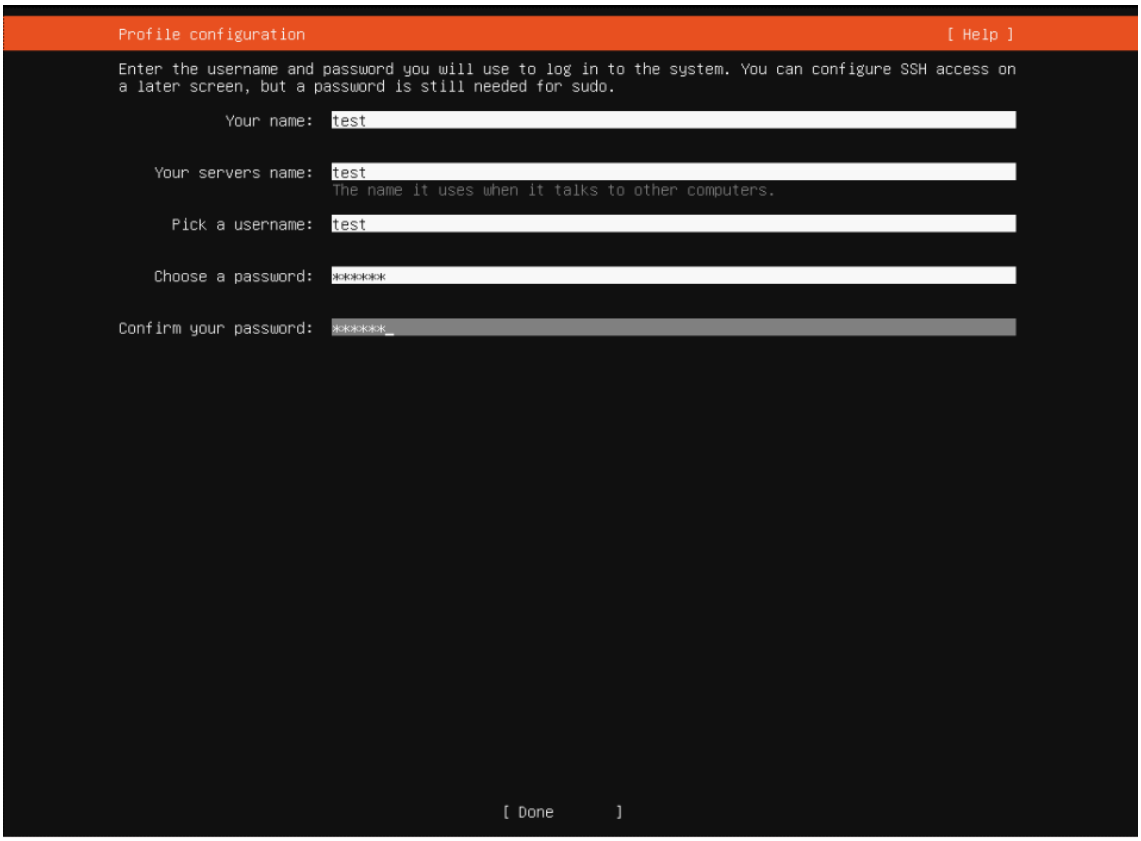
2.14 选择 **Done** 继续安装。


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]

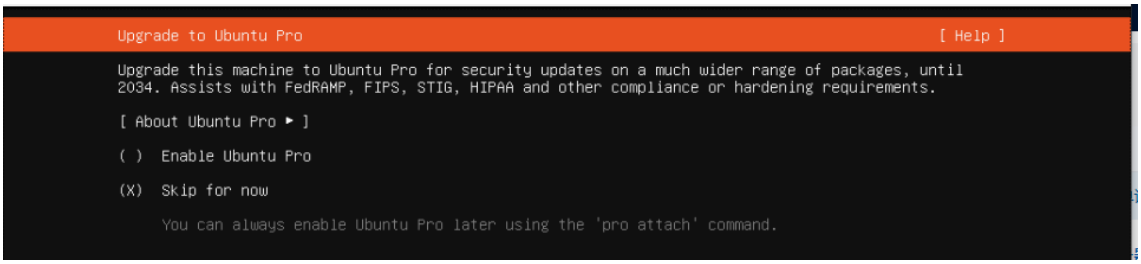
2.15 选择继续安装。



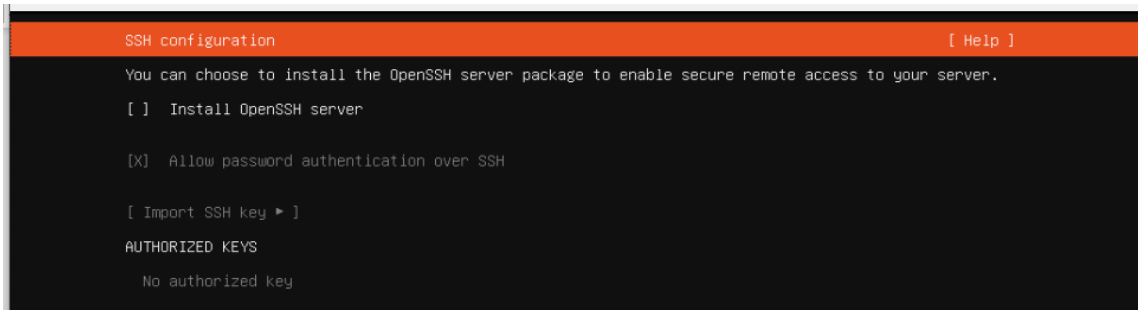
2.16 设置系统密码。



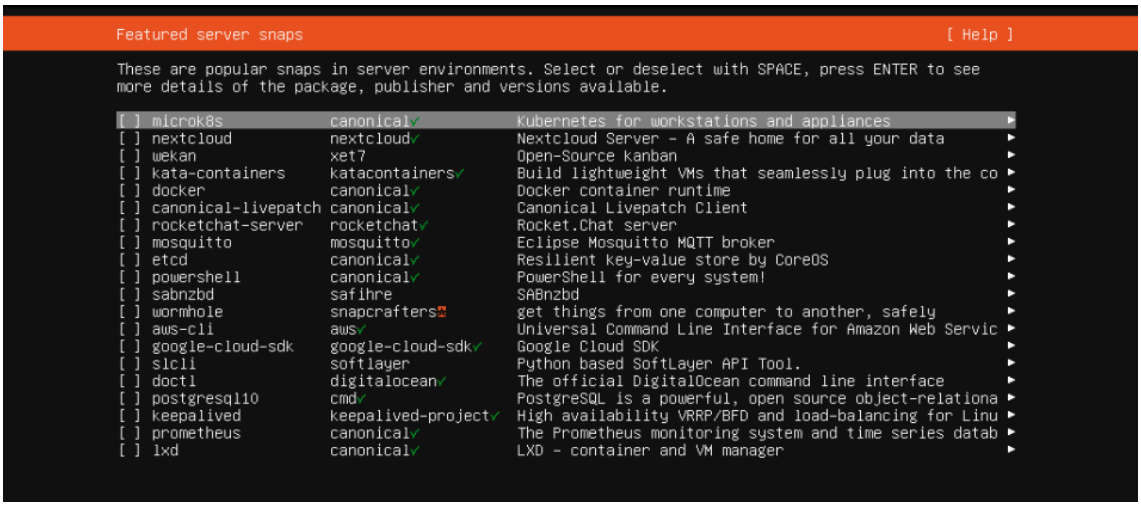
2.17 选择跳过



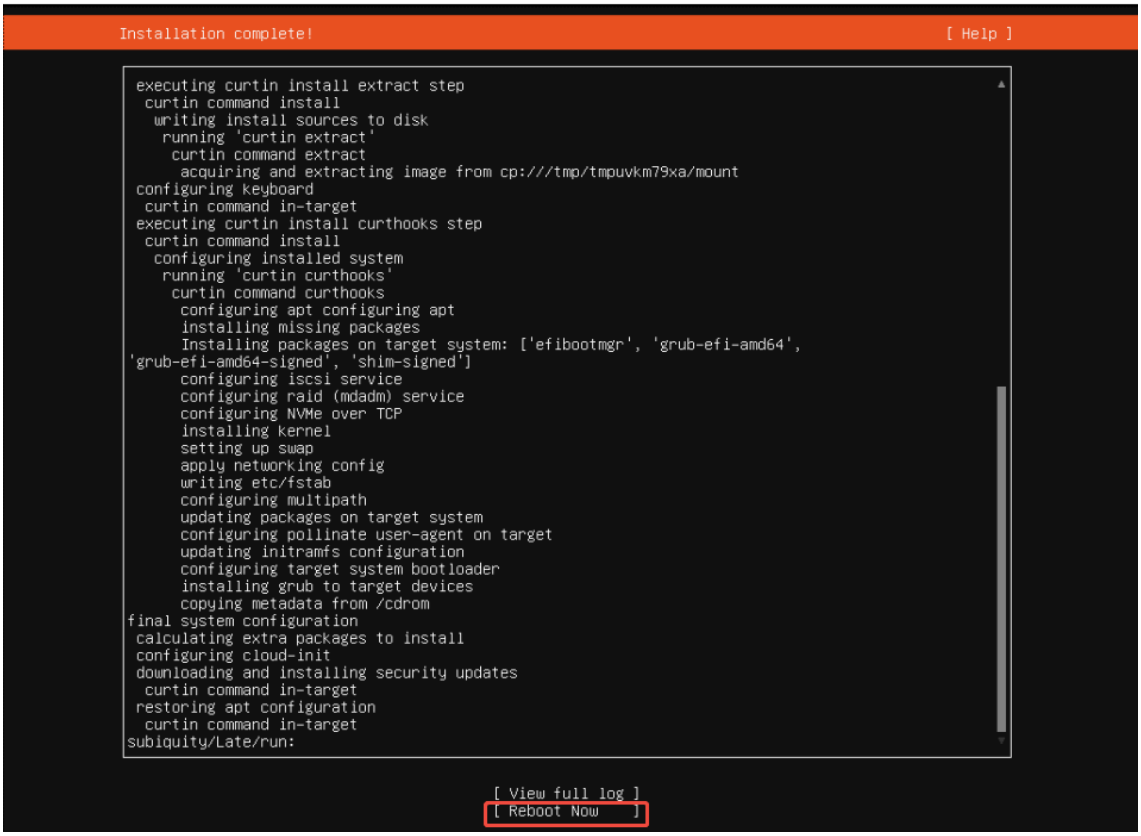
2.18 根据业务需求设置是否需要 ssh 功能。

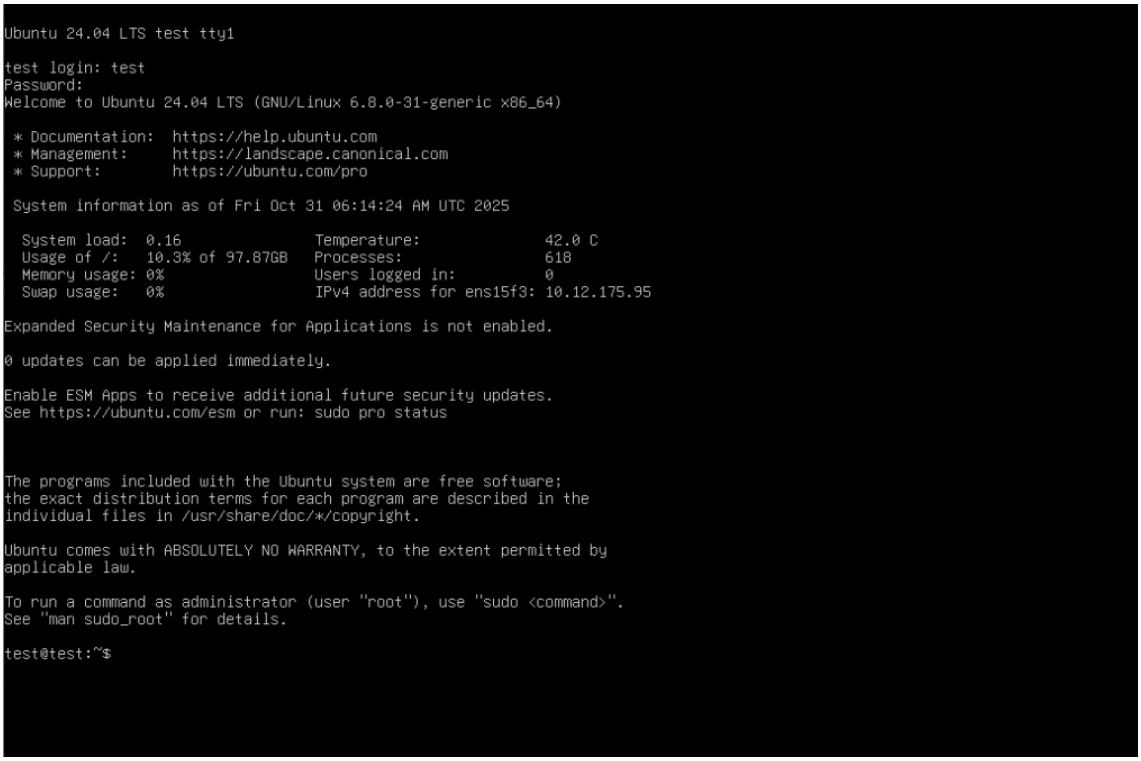


2.19 根据业务需求选择业务快照。



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
Usage of /: 10.3% of 97.87GB
Memory usage: 0%
Swap usage: 0%
Temperature: 42.0 C
Processes: 618
Users logged in: 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:~$