

# Ubuntu 22.04 系统安装指南

工厂日常

Exported on 09/09/2025

## Table of Contents

|                                       |    |
|---------------------------------------|----|
| 1 Ubuntu 22.04.x系统安装（软Raid） .....     | 4  |
| 2 Ubuntu 22.04.x系统安装（硬Raid或单硬盘） ..... | 17 |

• 文档信息

|      |  |            |
|------|--|------------|
| 分发范围 | 客户   |            |
| 使用范围 | OC380 Gen2 (10980XE)<br>OC380 Gen2 (Xeon-W-4th/5th)<br>OC280 Gen3 (13900KS/14900KS)<br>Ubuntu22.04.x |            |
| 修改人  | 曹永乐  |            |
| v1.0 | Ubuntu22.04.x，主板Raid，系统安装  | 2024/09/27 |
| v1.1 | 合并软Raid和硬Raid到一个文档   | 2025/09/08 |

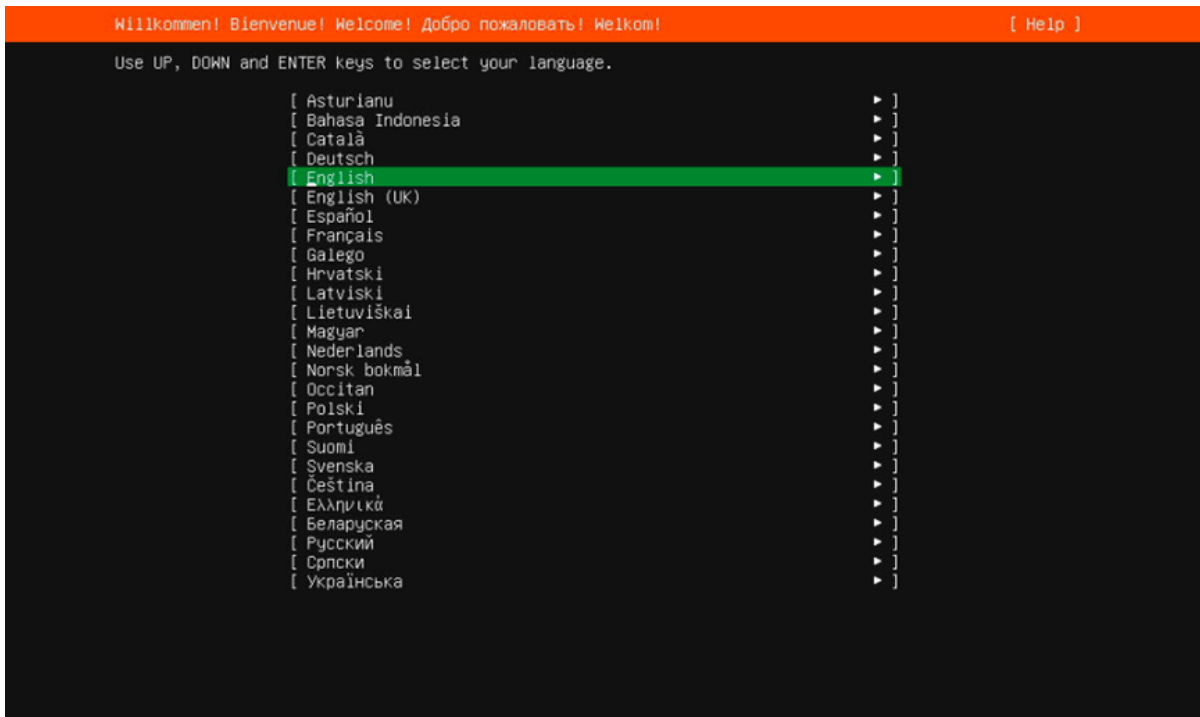
• 概要

此文档用于指导中鑫高频服务器的Ubuntu系统安装，记录安装步骤

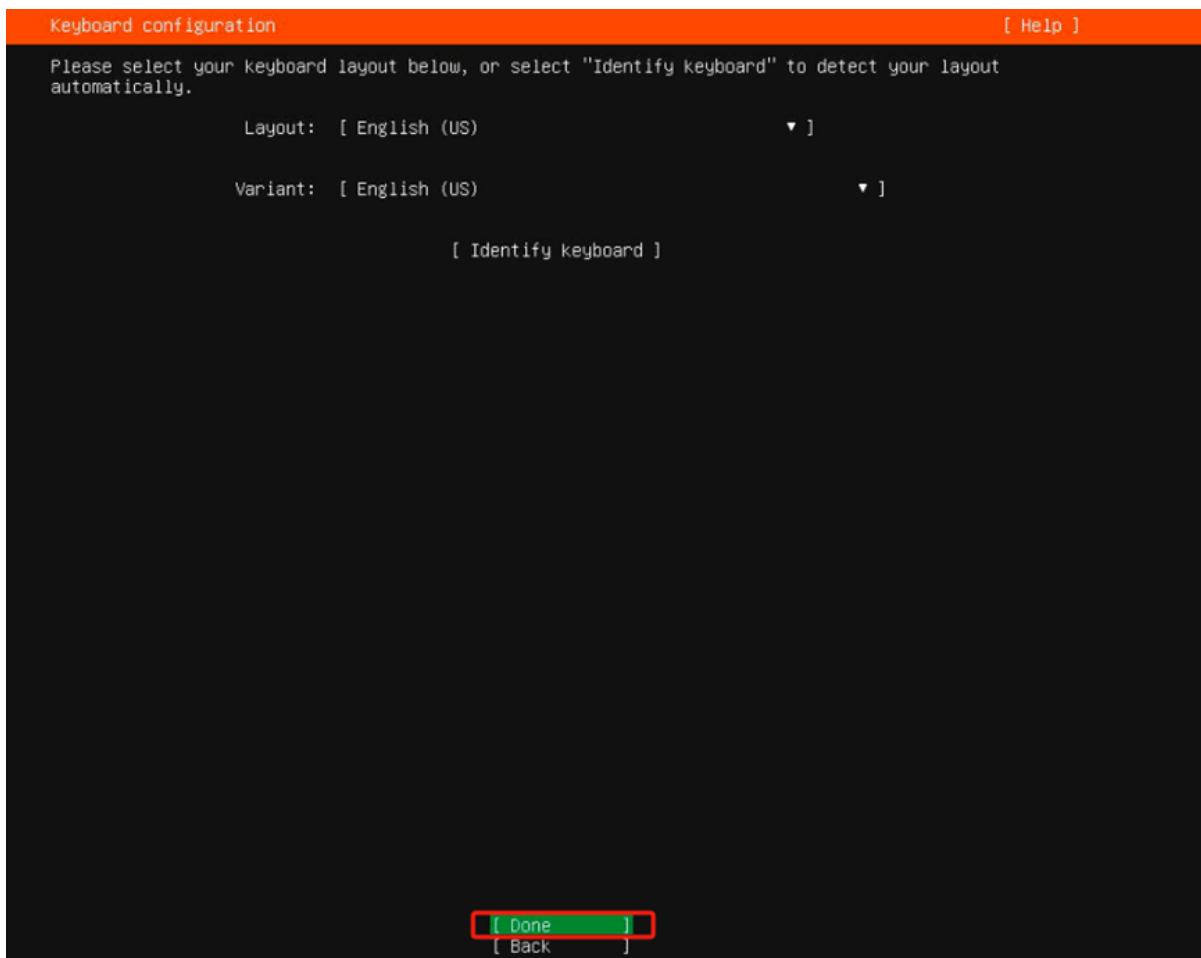
## 1 Ubuntu 22.04.x系统安装（软Raid）

**环境：**此次安装将用到4个200G的硬盘，每两个硬盘组成一个raid 1，将在其中一个raid上安装系统。先通过U盘引导Ubuntu 22.04.4镜像进入安装系统流程

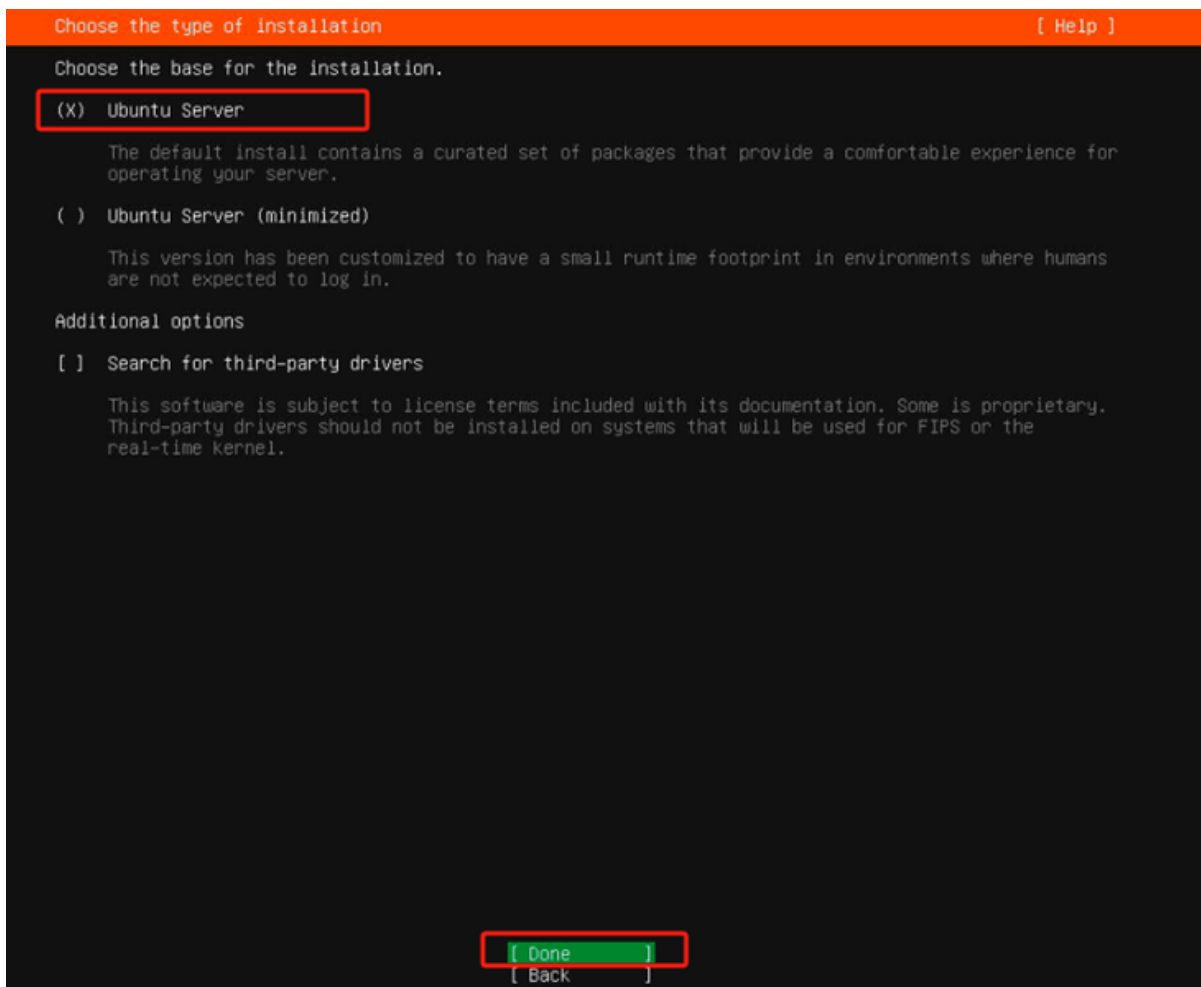
- 选择语言English 默认直接回车



- 键盘配置 默认直接回车



- 选择安装类型 选择“Ubuntu Server” 默认直接回车



- 网络配置，默认选择回车

```
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.

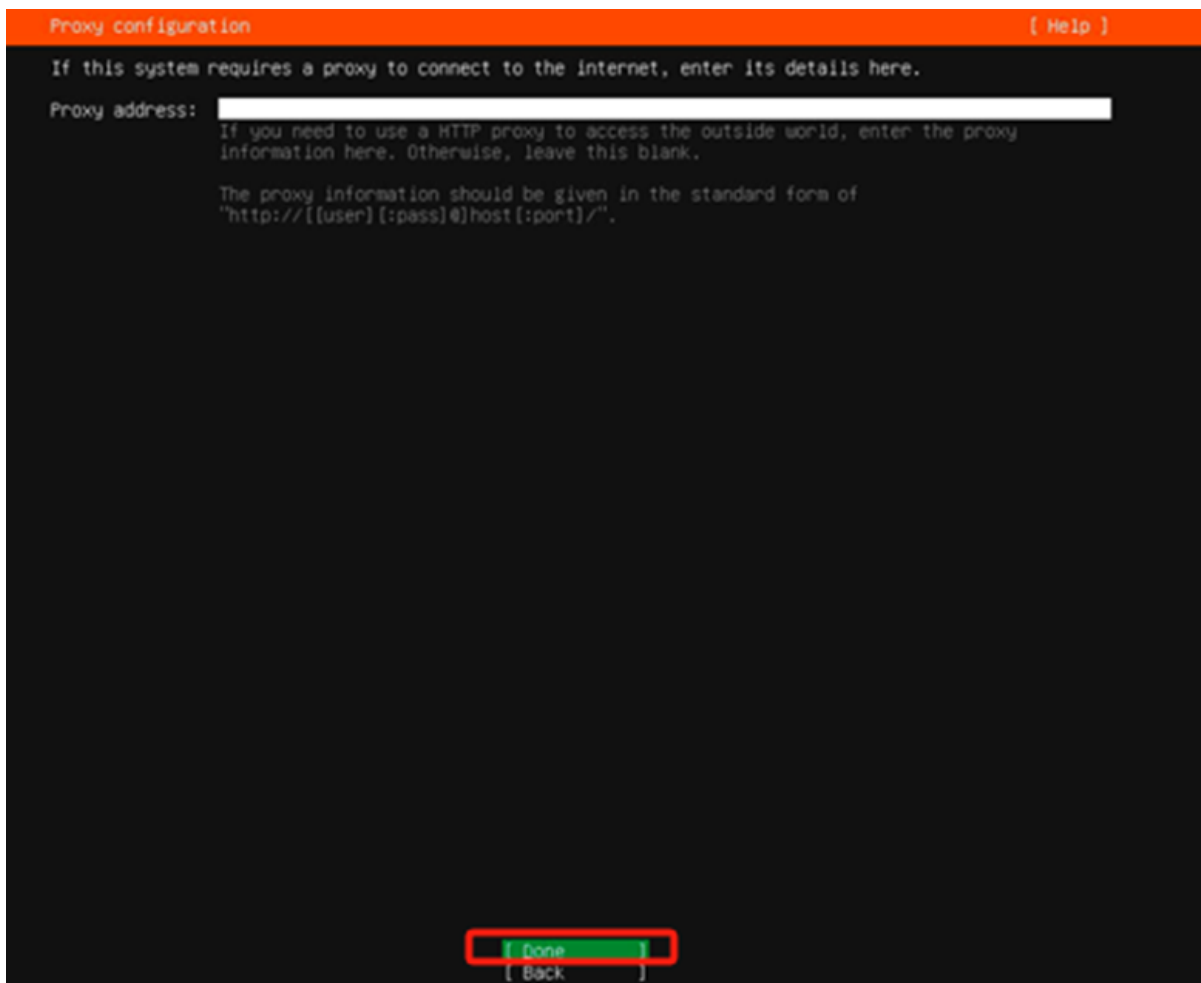
NAME    TYPE  NOTES
[ eno1   eth  -           ▶ ]
DHCPv4   172.20.2.109/22
3c:ec:ef:8d:1c:86 / Aquantia Corp. / AQC107 NBase-T/IEEE 802.3bz Ethernet Controller [AQtion]

[ eno2   eth  -           ▶ ]
DHCPv4   172.20.2.110/22
3c:ec:ef:8d:1b:5a / Intel Corporation / I210 Gigabit Network Connection

[ Create bond ▶ ]

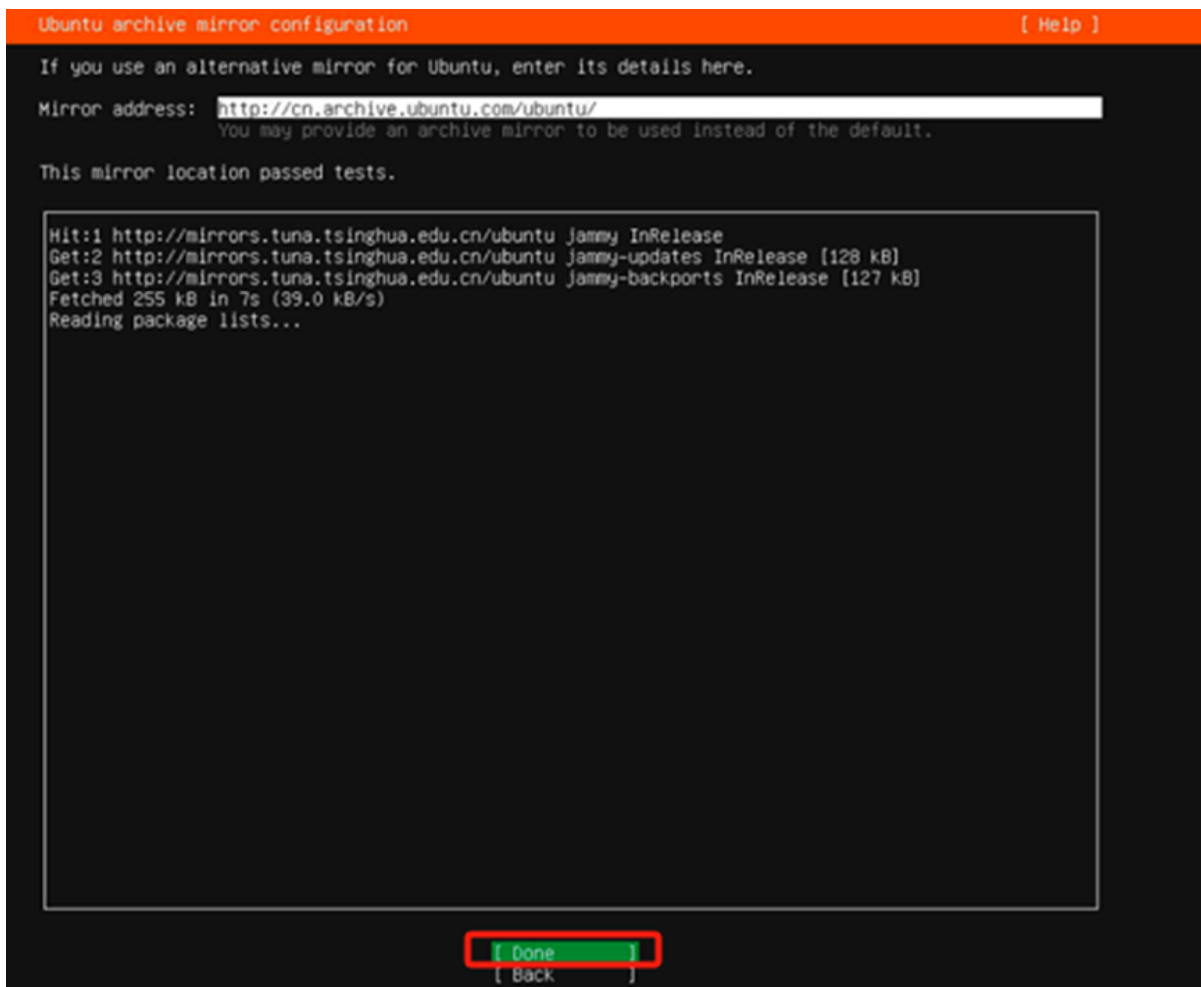
[ Done ]
[ Back ]
```

- Proxy配置 默认选择回车

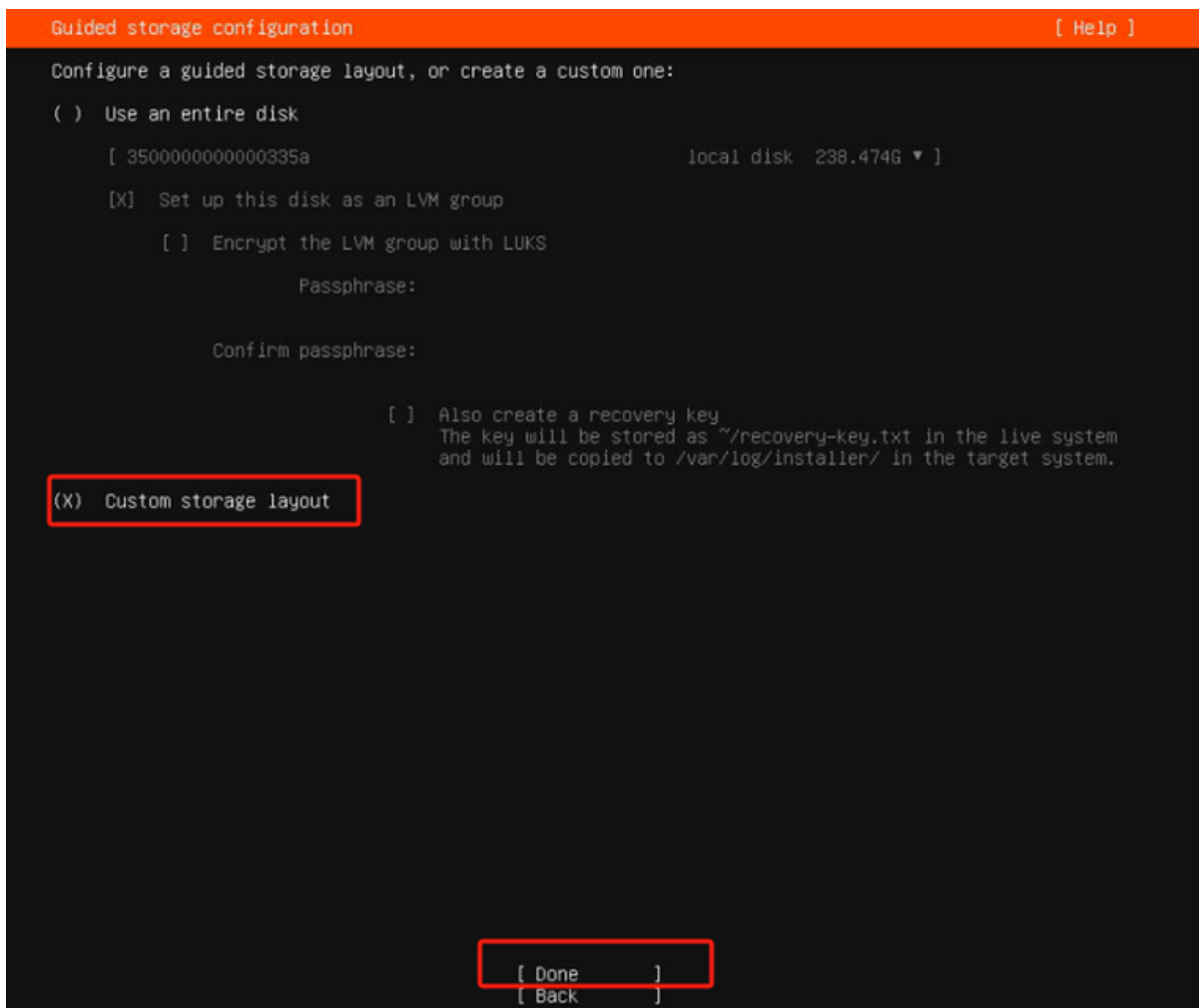


- 等加载出后，默认选择回车  
在无网络环境中，选择Skip

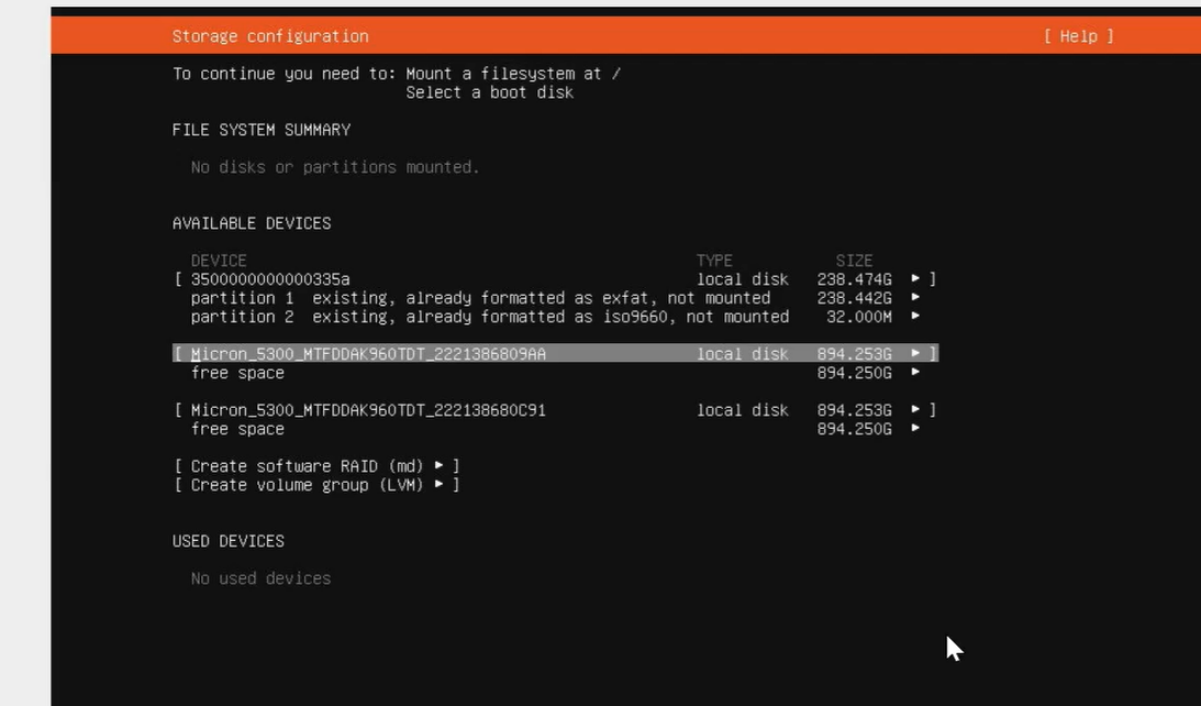




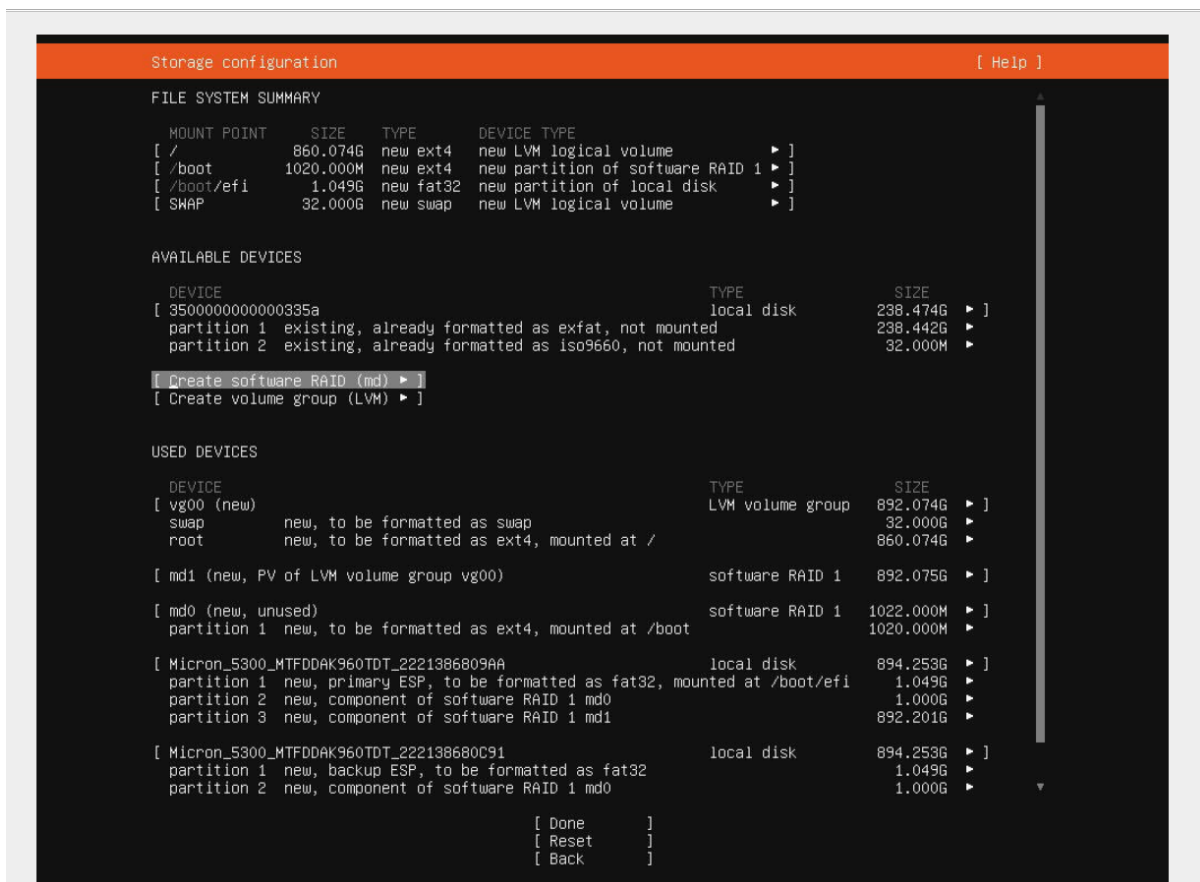
- 上下键切换,空格选中自定义存储布局，done 回车



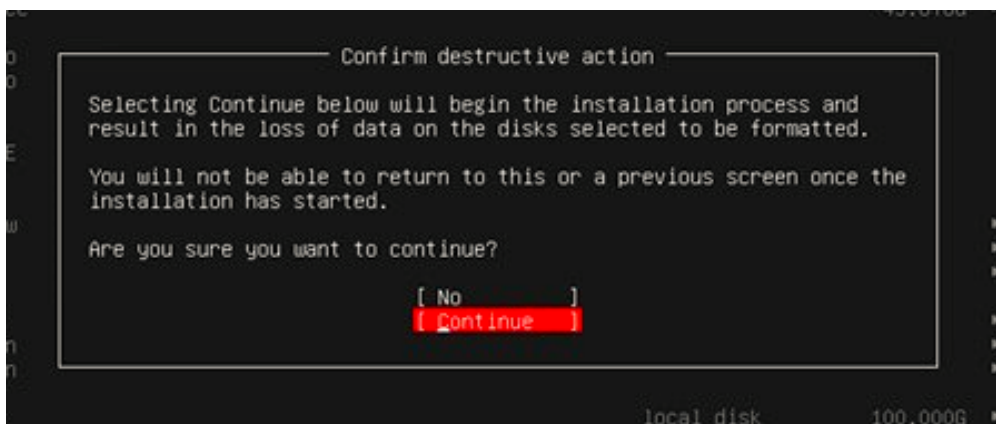
- 进入硬盘自定义配置界面



- 磁盘配置完成后参考



- 出现提示，大致意思为选择继续操作，硬盘原数据会丢失。选择Continue



- 进入设置用户名密码界面，用户ubuntu，密码根据自己需求设定，完成后选择Done

Profile setup [ Help ]

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

Your name:

Your server's name:   
The name it uses when it talks to other computers.

Pick a username:

Choose a password:

Confirm your password:

[ Done ]

- 是否升级到Ubuntu Pro  
选择Skip for now 选择Continue回车

Upgrade to Ubuntu Pro [ Help ]

Upgrade this machine to Ubuntu Pro for security updates on a much wider range of packages, until 2032. Assists with FedRAMP, FIPS, STIG, HIPAA and other compliance or hardening requirements.

[ About Ubuntu Pro ► ]

( ) Enable Ubuntu Pro

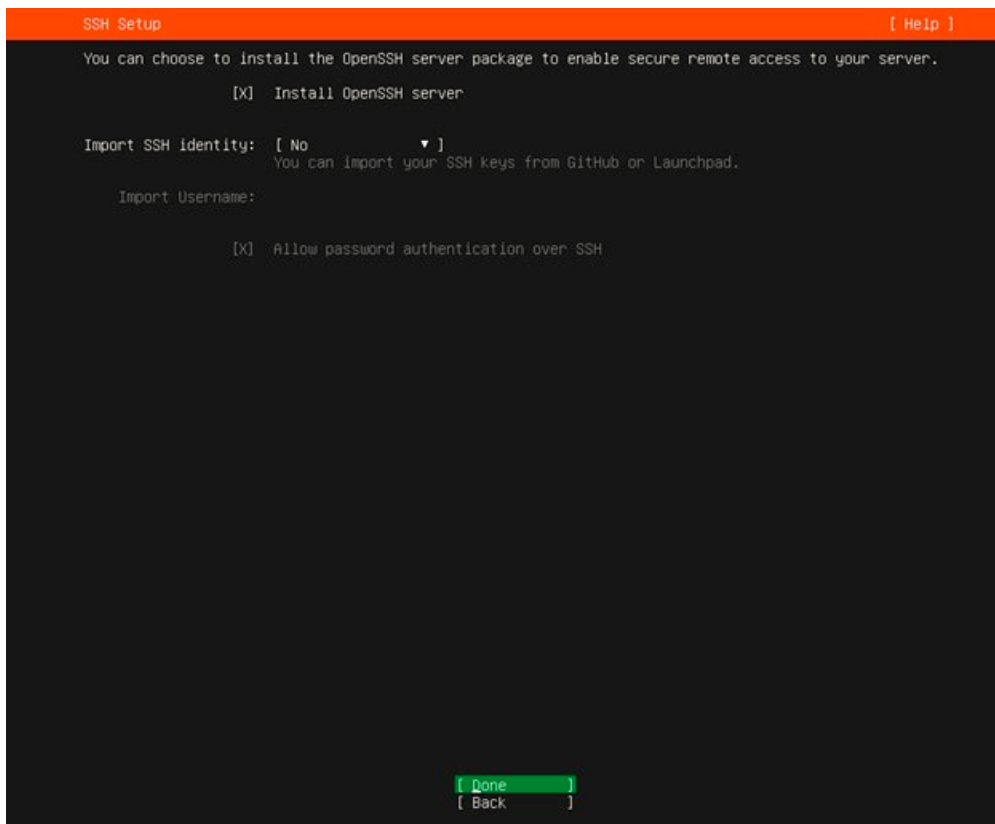
(X) Skip for now

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

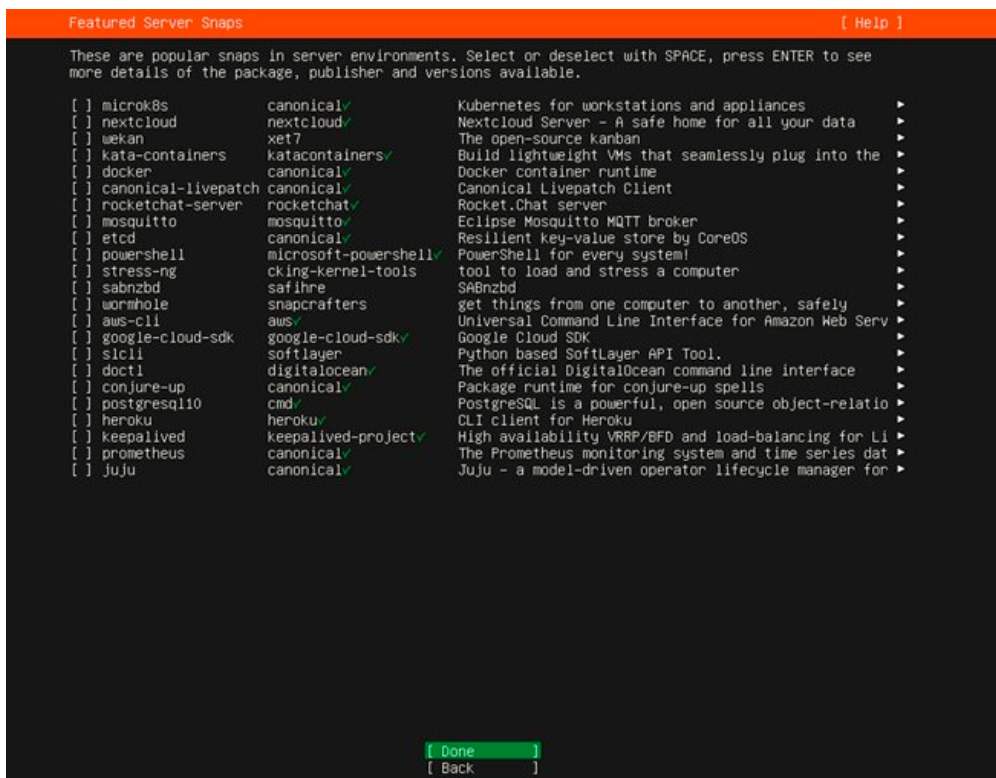
[ Continue ]  
[ Back ]

- SSH 安装

选择Install openSSH server, Done 回车



- 特色服务器snaps,直接Done 回车



- 进入安装系统流程界面，等安装完成后出现reboot now的时候代表系统安装完成  
选择reboot now 回车，系统重启，完成安装

```
Install complete! [ Help ]

curtin command install
  writing install sources to disk
    running 'curtin extract'
  curtin command extract
    acquiring and extracting image from cp:///tmp/tmp3nuctx6w/mount
executing curtin install curthooks step
curtin command install
  configuring installed system
    running 'mount --bind /cdrom /target/cdrom'
    running 'curtin in-target -- setupcon --save-only'
  curtin command in-target
    running 'curtin curthooks'
  curtin command curthooks
    configuring apt configuring apt
    installing missing packages
    installing packages on target system: ['efibootmgr', 'grub-efi-amd64',
'grub-efi-amd64-signed', 'shim-signed']
    configuring iscsi service
    configuring raid (mdadm) service
    installing kernel
    setting up swap
    apply networking config
    writing etc/fstab
    configuring multipath
    updating packages on target system
    configuring pollinate user-agent on target
    updating initramfs configuration
    configuring target system bootloader
    installing grub to target devices
final system configuration
  configuring cloud-init
  calculating extra packages to install
  installing openssh-server
  curtin command system-install
  downloading and installing security updates
  curtin command in-target
  restoring apt configuration
  curtin command in-target
subiquity/Late/run

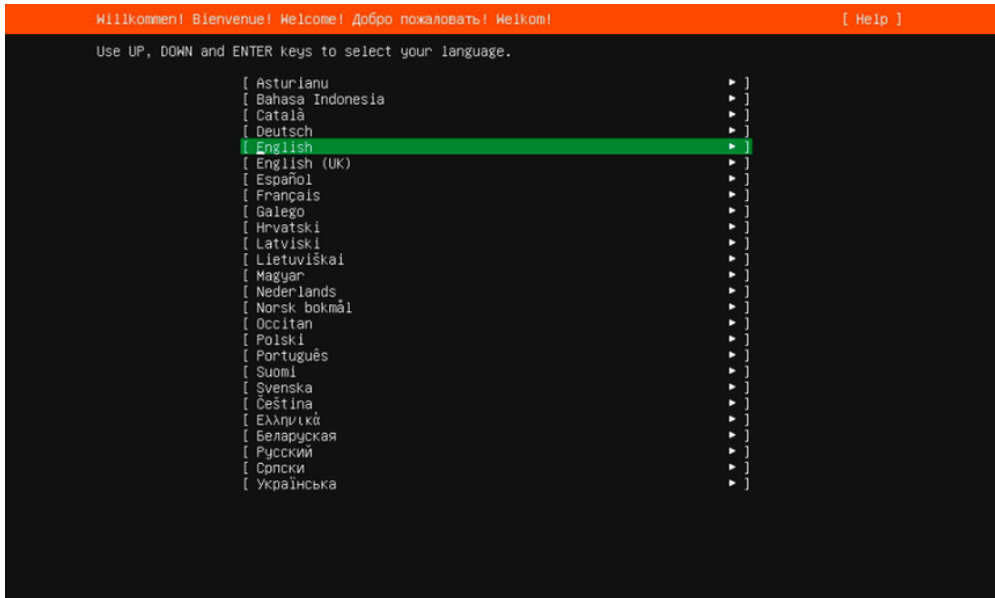
[ View full log ]
[ Reboot Now ]
```



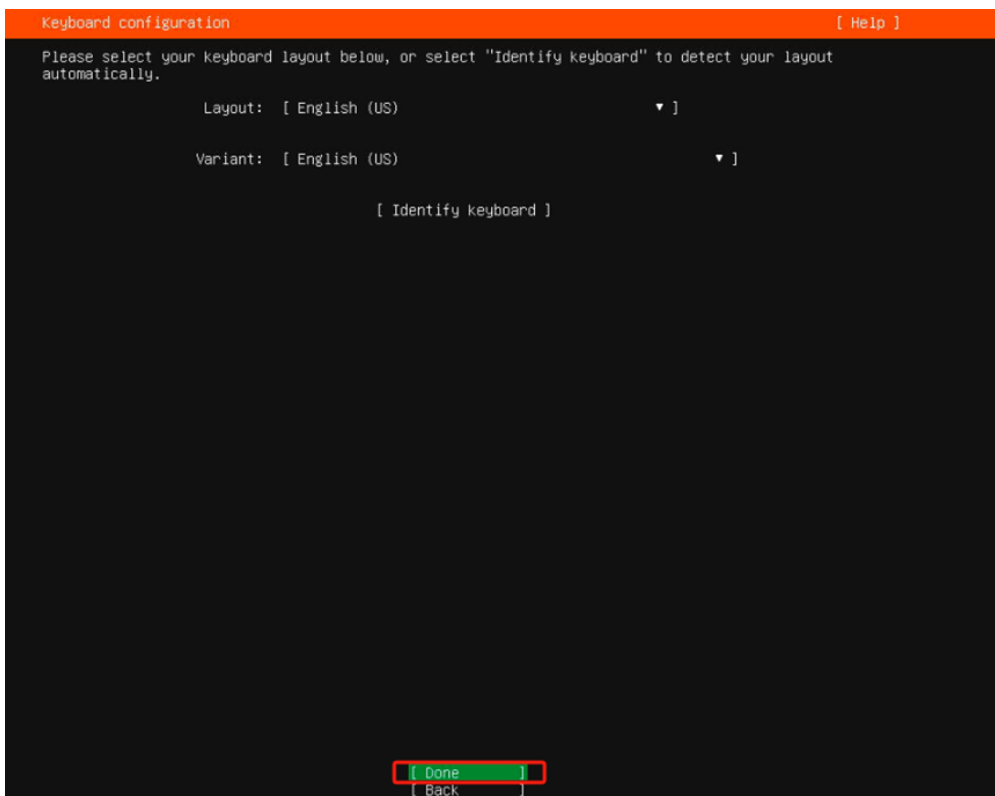
## 2 Ubuntu 22.04.x系统安装（硬Raid或单硬盘）

**环境：**此次安装将用到4个200G的硬盘，每两个硬盘组成一个raid 1，将在其中一个raid上安装系统。先通过U盘引导Ubuntu 22.04.4镜像进入安装系统流程

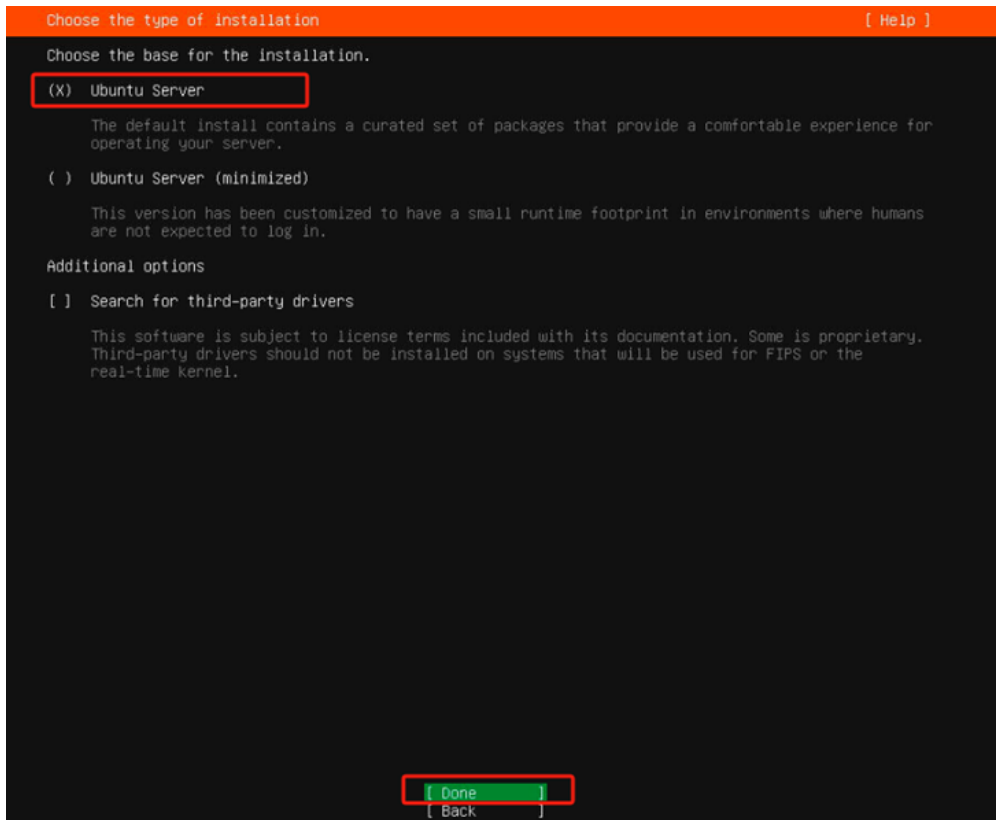
- 选择语言English 默认直接回车



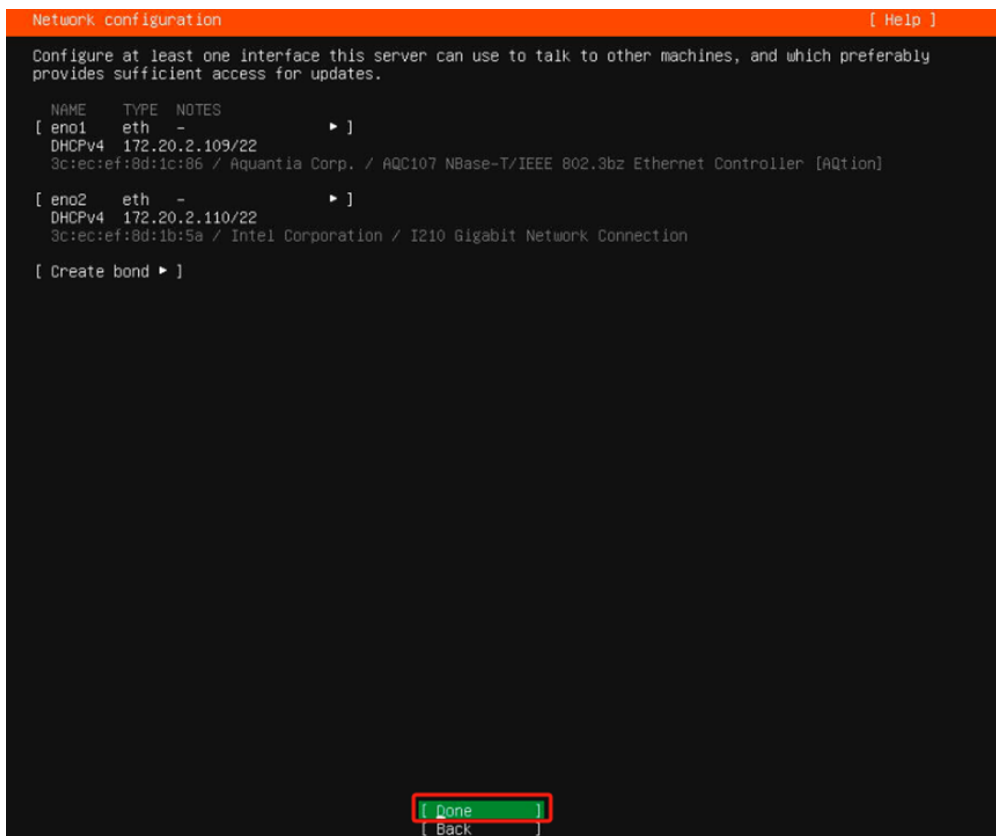
- 键盘配置 默认直接回车



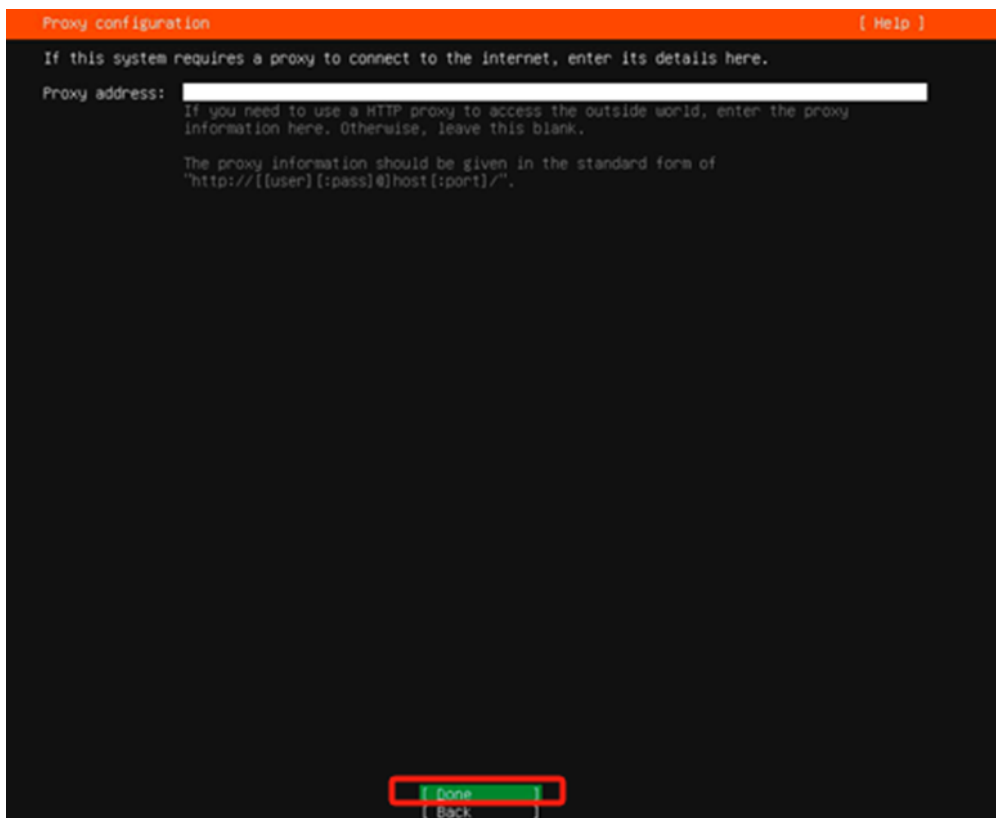
- 选择安装类型 选择“Ubuntu Server” 默认直接回车



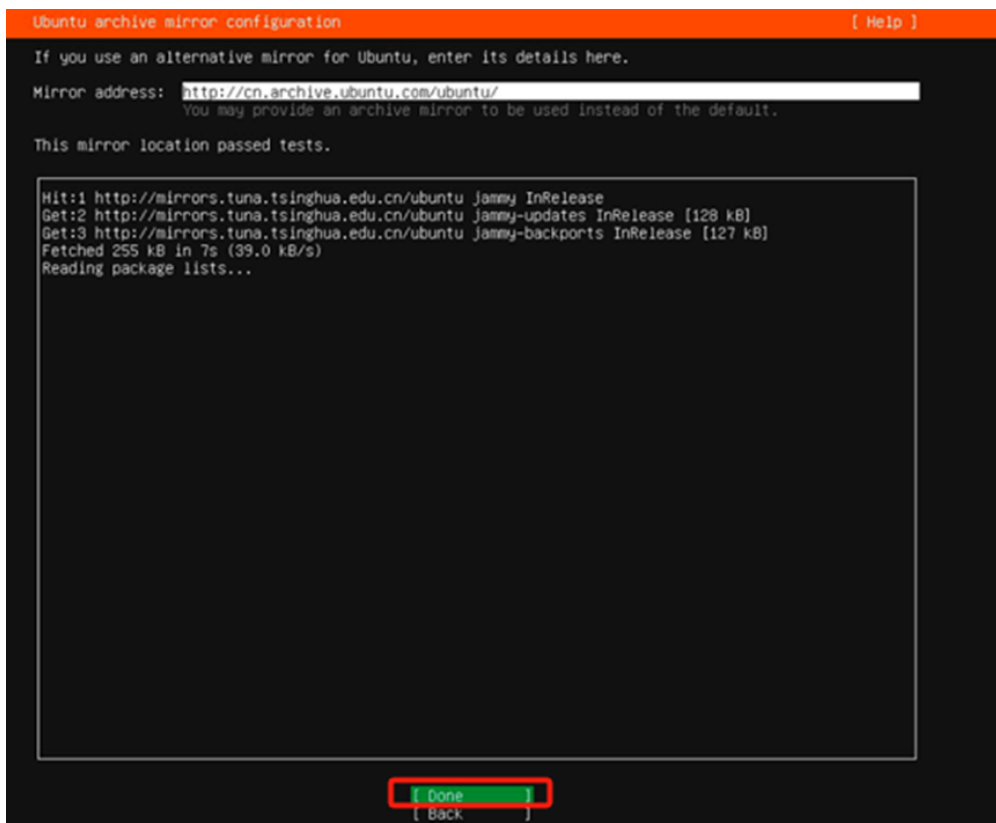
- 网络配置，默认选择回车



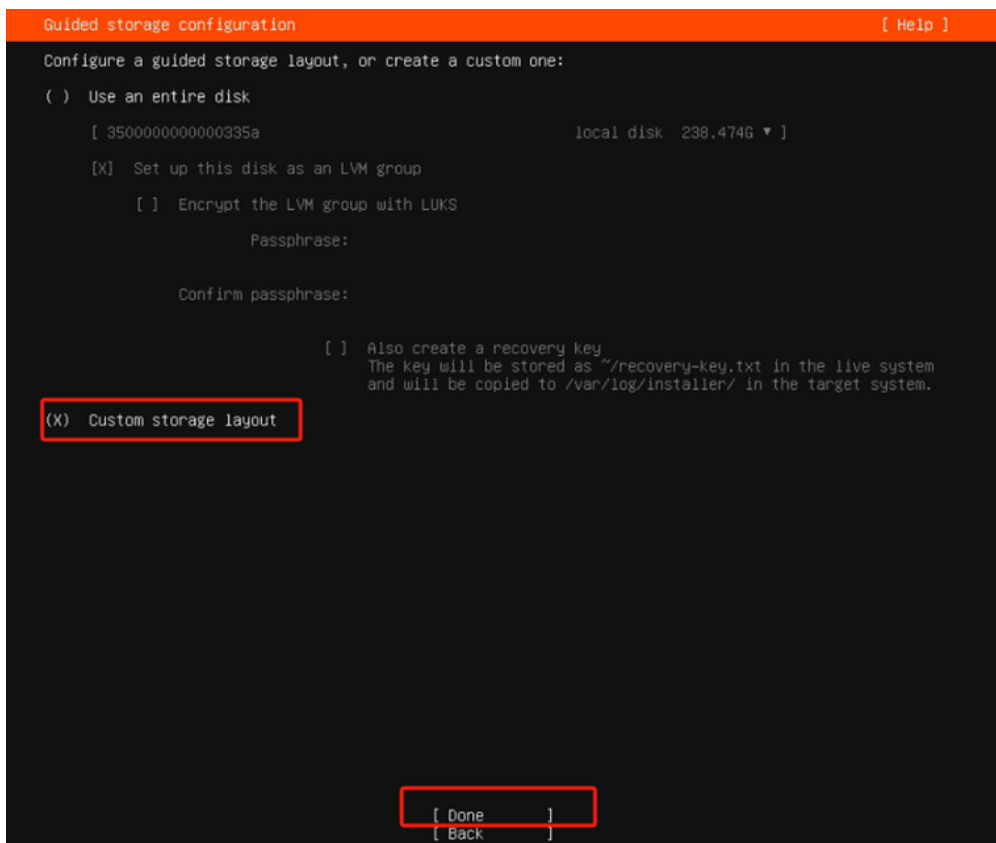
- Proxy配置 默认选择回车



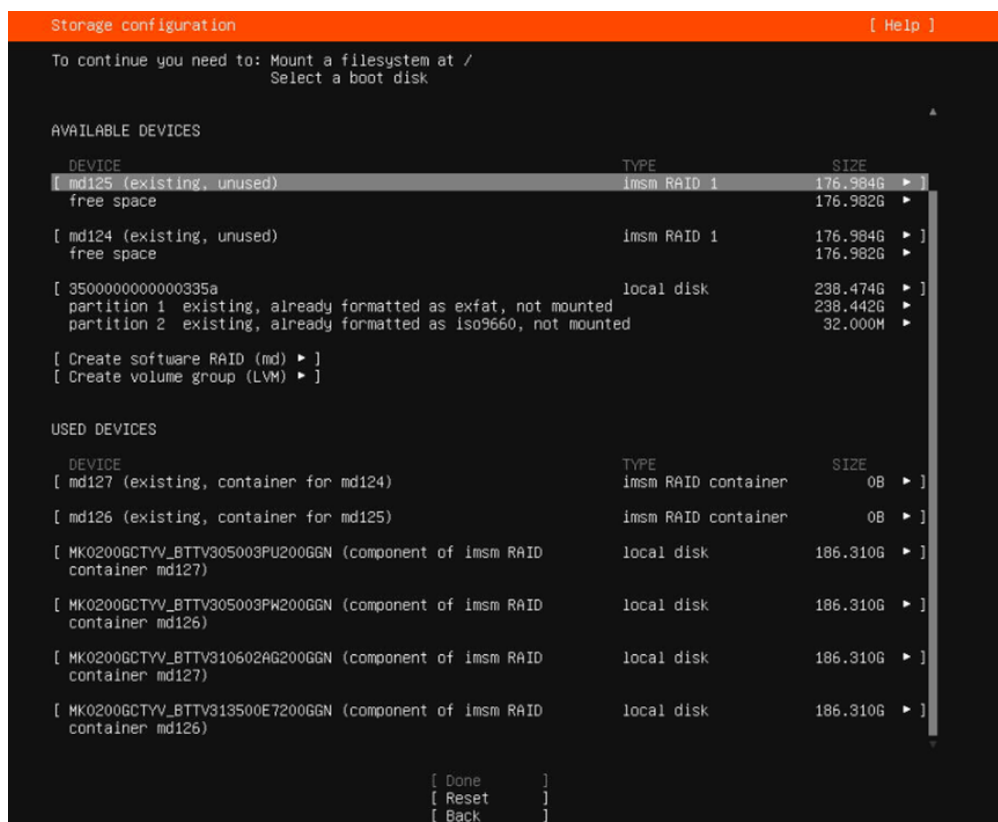
- 等加载出后，默认选择回车
- 在无网络环境中，选择Skip



- 上下键切换,空格选中自定义存储布局，done 回车



- 进入硬盘自定义配置界面

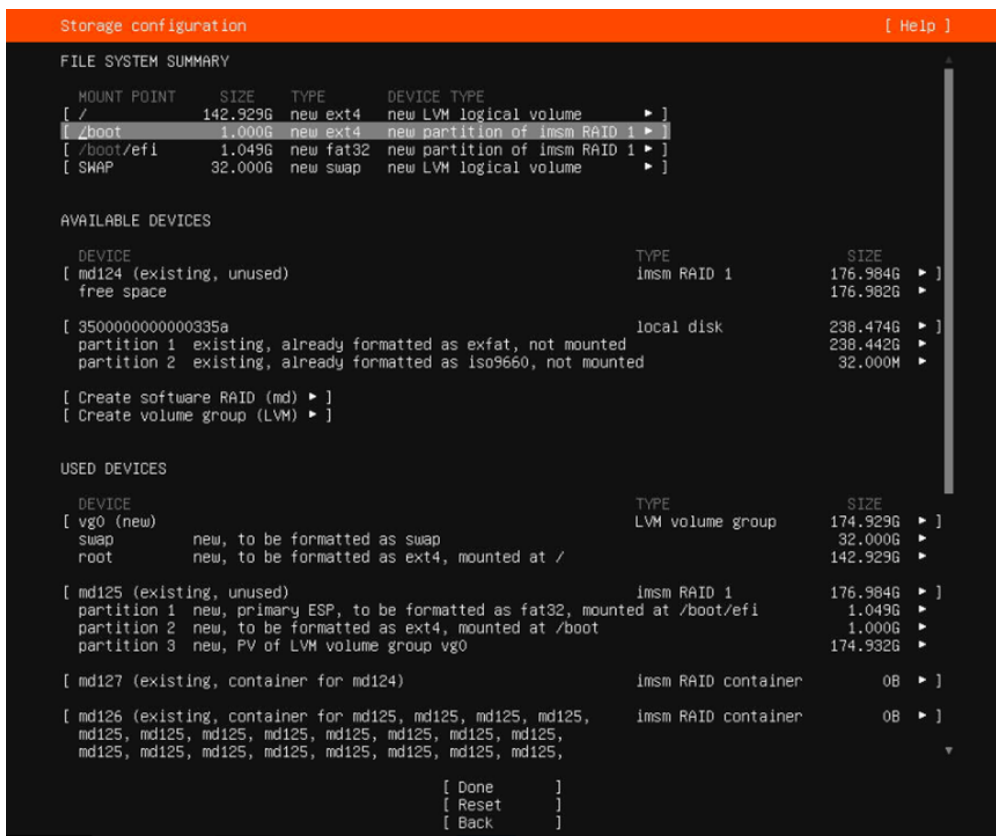


- 磁盘配置完成后参考

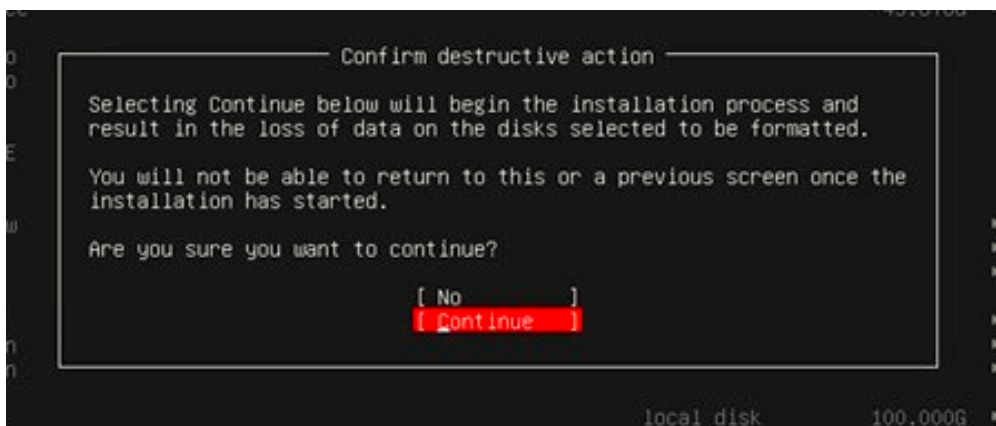
将任意一个raid组（我这里是md125)先分出/boot/efi 1G、/boot 1G

然后再将剩余的raid空间保留未格式化划分出来，再做成vg00卷组

从vg00卷组中分出swap 分区 32G、剩余空间全给/root，完成后选择Done 完成硬盘配置



- 出现提示，大致意思为选择继续操作，硬盘原数据会丢失。选择Continue



- 进入设置用户名密码界面，用户ubuntu，密码根据自己需求设定，完成后选择Done



Profile setup [ Help ]

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

Your name: ubuntu

Your server's name: ubuntu  
The name it uses when it talks to other computers.

Pick a username: ubuntu

Choose a password: \*\*\*\*\*

Confirm your password: \*\*\*\*\*

[ Done ]

- 是否升级到Ubuntu Pro  
选择Skip for now 选择Continue回车

Upgrade to Ubuntu Pro [ Help ]

Upgrade this machine to Ubuntu Pro for security updates on a much wider range of packages, until 2032. Assists with FedRAMP, FIPS, STIG, HIPAA and other compliance or hardening requirements.

[ About Ubuntu Pro ► ]

( ) Enable Ubuntu Pro

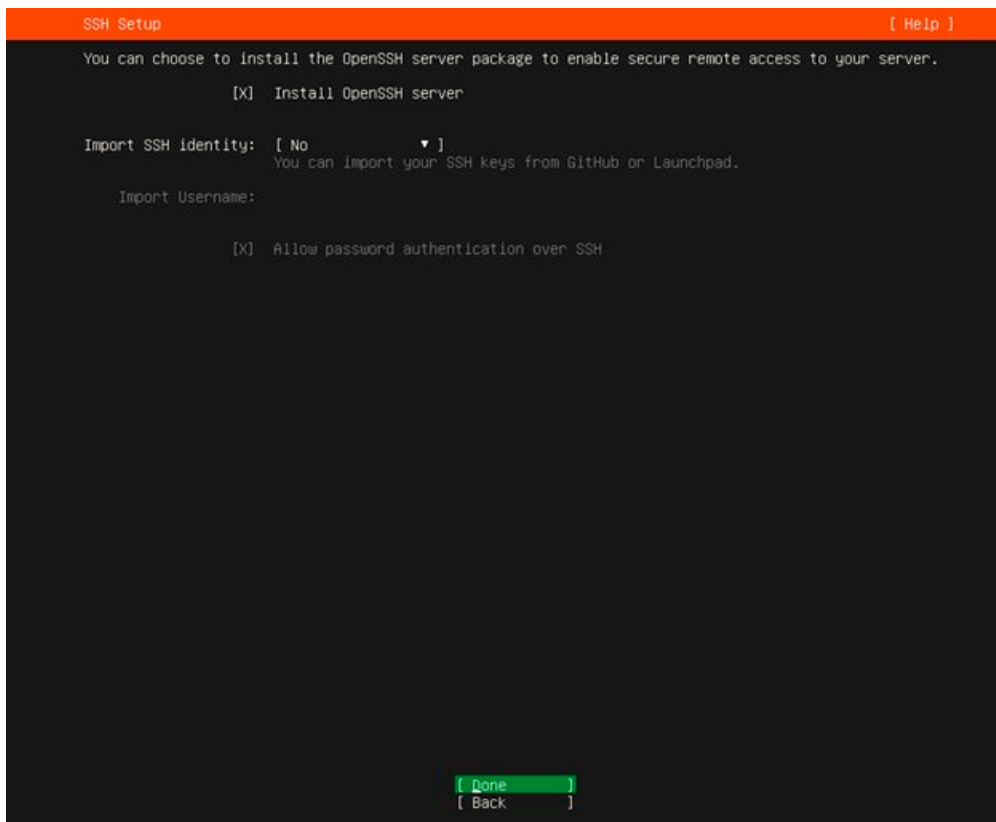
(X) Skip for now

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

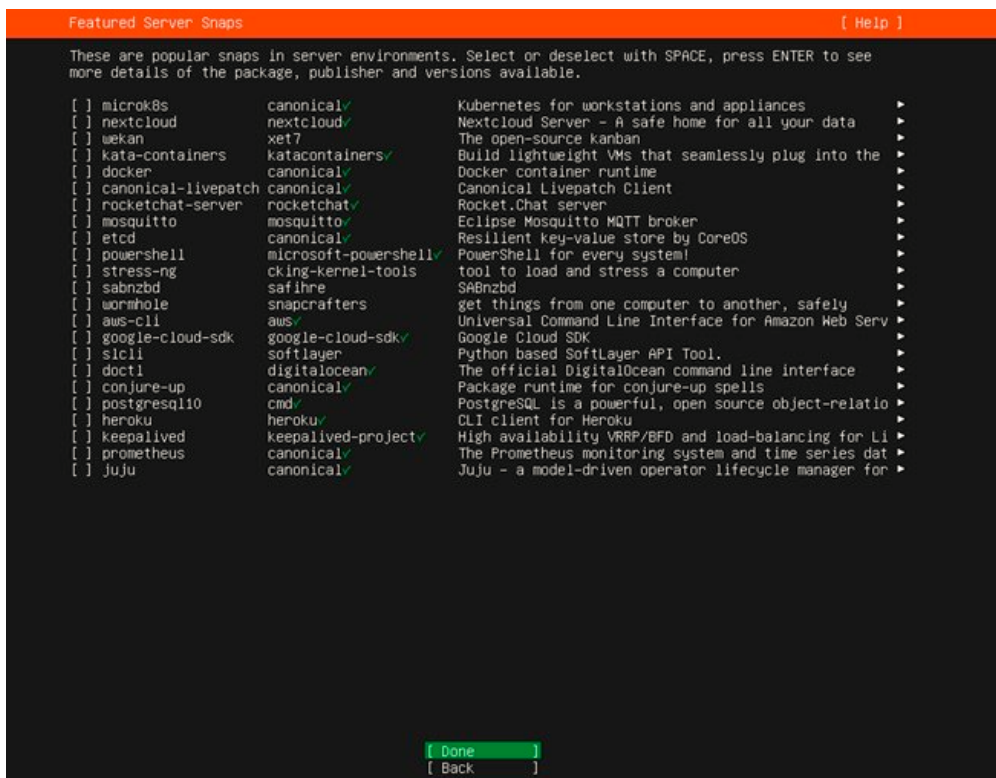
[ Continue ]  
[ Back ]

- SSH 安装

选择Install openSSH server, Done 回车



- 特色服务器snaps,直接Done 回车



- 进入安装系统流程界面，等安装完成后出现reboot now的时候代表系统安装完成  
选择reboot now 回车，系统重启，完成安装

```
Install complete! [ Help ]

curtin command install
  writing install sources to disk
    running 'curtin extract'
  curtin command extract
    acquiring and extracting image from cp:///tmp/tmp3nuctx6w/mount
executing curtin install curthooks step
curtin command install
  configuring installed system
    running 'mount --bind /cdrom /target/cdrom'
    running 'curtin in-target -- setupcon --save-only'
  curtin command in-target
    running 'curtin curthooks'
  curtin command curthooks
    configuring apt configuring apt
    installing missing packages
    installing packages on target system: ['efibootmgr', 'grub-efi-amd64',
'grub-efi-amd64-signed', 'shim-signed']
    configuring iscsi service
    configuring raid (mdadm) service
    installing kernel
    setting up swap
    apply networking config
    writing etc/fstab
    configuring multipath
    updating packages on target system
    configuring pollinate user-agent on target
    updating initramfs configuration
    configuring target system bootloader
    installing grub to target devices
final system configuration
  configuring cloud-init
  calculating extra packages to install
  installing openssh-server
  curtin command system-install
  downloading and installing security updates
  curtin command in-target
  restoring apt configuration
  curtin command in-target
subiquity/Late/run

[ View full log ]
[ Reboot Now ]
```