

H3C G5 服务器通过 U 盘引导

安装 Ubuntu Server 22.04 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 H3C G5 系列服务器通过 U 盘安装系统的方法，并以 R4900 G5 服务器安装 Ubuntu Server 22.04 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<安装前准备>的内容查看。
- 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/208474>
- 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/207728>

2. 系统安装介质获取

具体方法请参考：<https://zhiliao.h3c.com/Theme/details/210145>

3. 阵列配置

如果有配置阵列的需求，请在阵列配置完成后安装系统。

具体阵列配置方法请参考：<https://zhiliao.h3c.com/Theme/details/208527>

4. 连接 HDM 与启用远程控制台

若通过 U 盘引导方式安装操作系统，您可通过外接显示器、键盘与鼠标完成与服务器的交互。

若未配置外设，请通过 HDM 控制台完成后续操作。

具体方法请参考：<https://zhiliao.h3c.com/Theme/details/210144>

三. 安装步骤

1. 挂载启动 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，可在右侧智能挂而处看到 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。

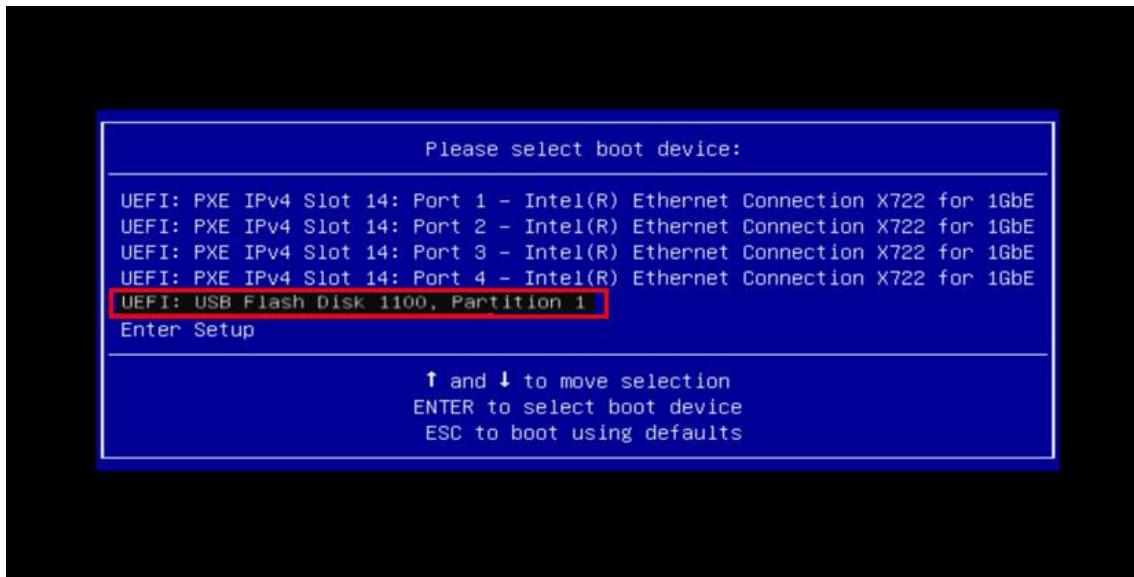


2. 引导系统安装

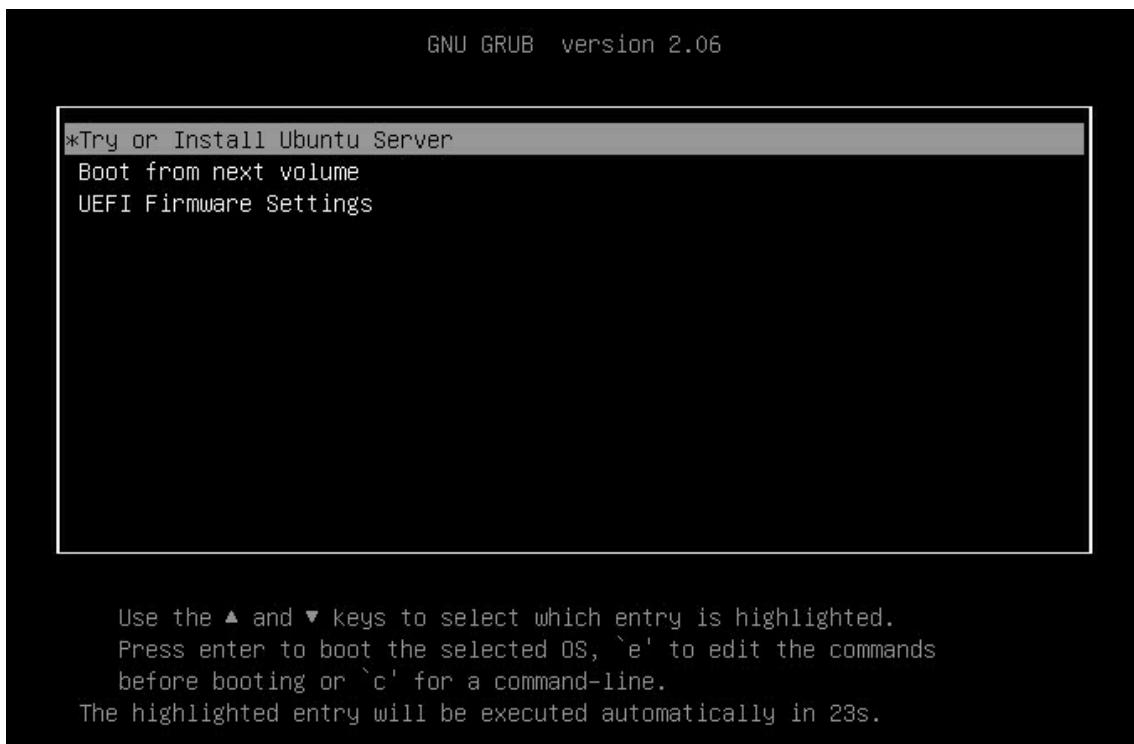
2.1 启服务器，在开机自检界面按下 F7，选择启动项。



2.2 选择 UEFI: USB Flash Disk。



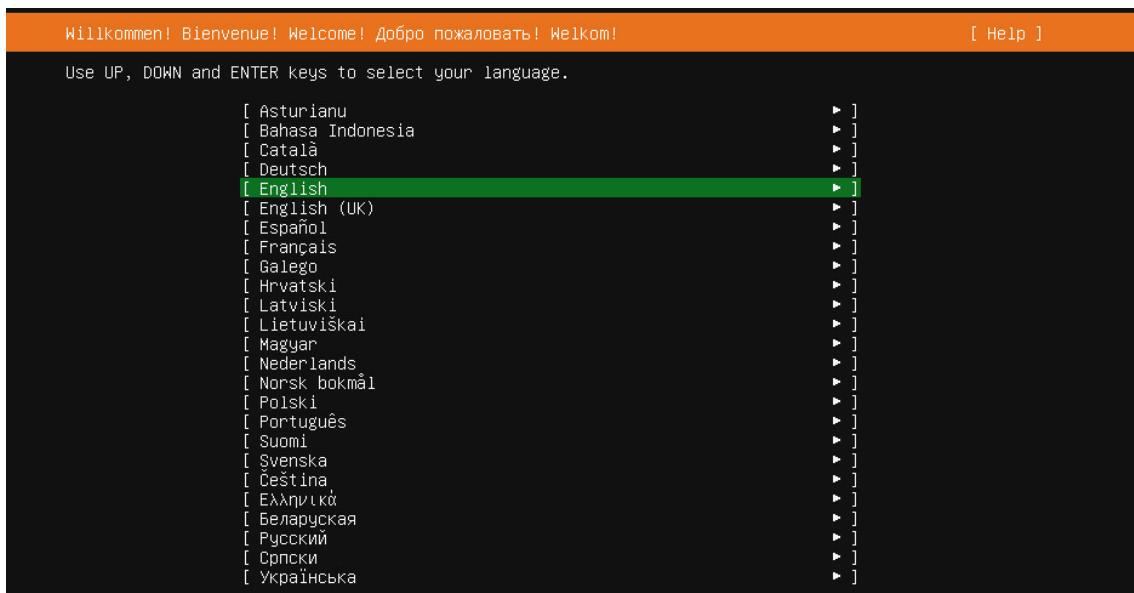
2.3 选择安装 Install Ubuntu Server。



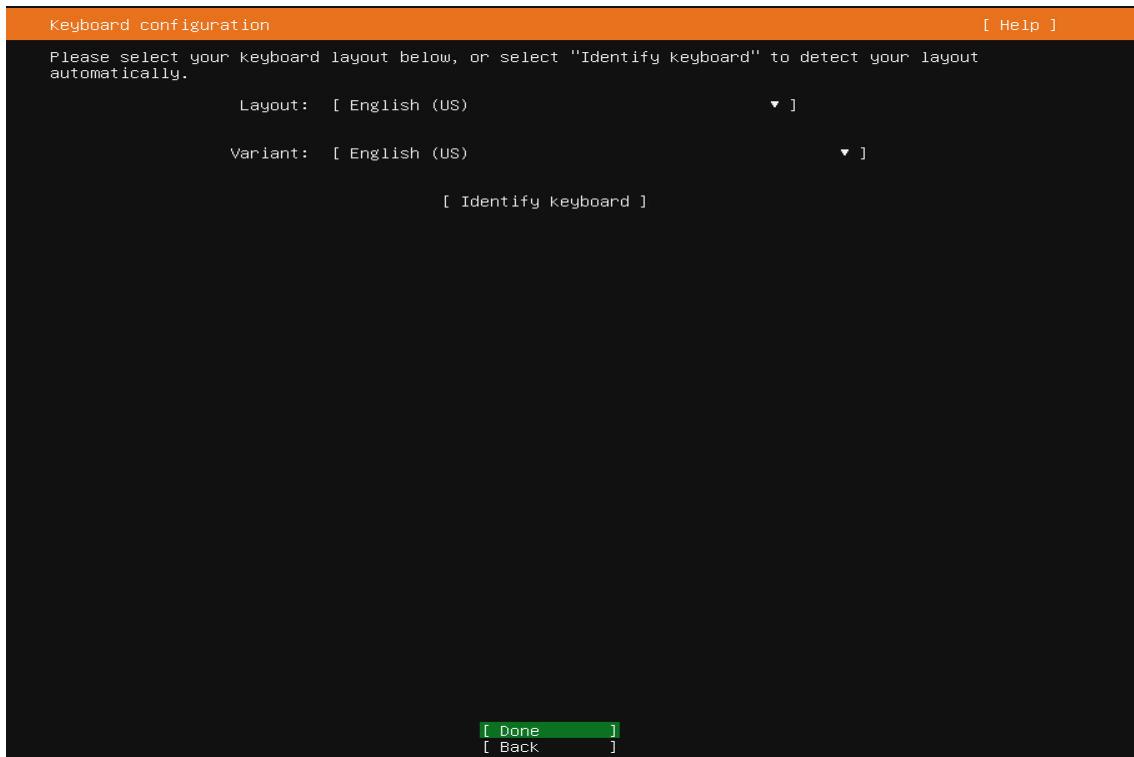
2.4 开始引导安装。

```
[ OK ] Stopped dracut pre-mount hook.
[ OK ] Stopped target Initrd Default Target.
[ OK ] Stopped target Initrd Root Device.
[ OK ] Stopped target Basic System.
[ OK ] Stopped target Paths.
[ OK ] Stopped target Slices.
[ OK ] Stopped target Sockets.
[ OK ] Stopped target System Initialization.
[ OK ] Stopped Create Volatile Files and Directories.
[ OK ] Stopped target Swap.
[ OK ] Stopped Apply Kernel Variables.
[ OK ] Stopped target Local Encrypted Volumes.
[ OK ] Stopped target Local File Systems.
[ OK ] Stopped target Local File Systems (Pre).
[ OK ] Stopped cancel waiting for multipath siblings of sdd.
[ OK ] Stopped target Remote File Systems.
[ OK ] Stopped target Remote File Systems (Pre).
[ OK ] Stopped dracut initqueue hook.
Stopping Open-iSCSI...
[ OK ] Stopped cancel waiting for multipath siblings of sdh.
[ OK ] Started Setup Virtual Console.
[ OK ] Stopped Open-iSCSI.
[ OK ] Started Cleaning Up and Shutting Down Daemons.
[ OK ] Started Plymouth switch root service.
Stopping Device-Mapper Multipath Device Controller...
Stopping iSCSI UserSpace I/O driver...
[ OK ] Closed Open-iSCSI iscsid Socket.
[ OK ] Stopped iSCSI UserSpace I/O driver.
[ OK ] Closed Open-iSCSI iscsiuiuo Socket.
[ OK ] Stopped Device-Mapper Multipath Device Controller.
[ OK ] Stopped udev Wait for Complete Device Initialization.
[ OK ] Stopped udev Coldplug all Devices.
[ OK ] Stopped dracut pre-trigger hook.
Stopping udev Kernel Device Manager...
[ OK ] Stopped udev Kernel Device Manager.
Stopping Hardware RNG Entropy Gatherer Daemon...
[ OK ] Stopped Create Static Device Nodes in /dev.
[ OK ] Stopped Create list of required static device nodes for the current kernel.
[ OK ] Stopped dracut pre-udev hook.
[ OK ] Stopped dracut cmdline hook.
[ OK ] Closed udev Kernel Socket.
[ OK ] Closed udev Control Socket.
Starting Cleanup udevd DB...
[ OK ] Stopped Hardware RNG Entropy Gatherer Daemon.
[ OK ] Started Cleanup udevd DB.
[ OK ] Reached target Switch Root.
Starting Switch Root...
```

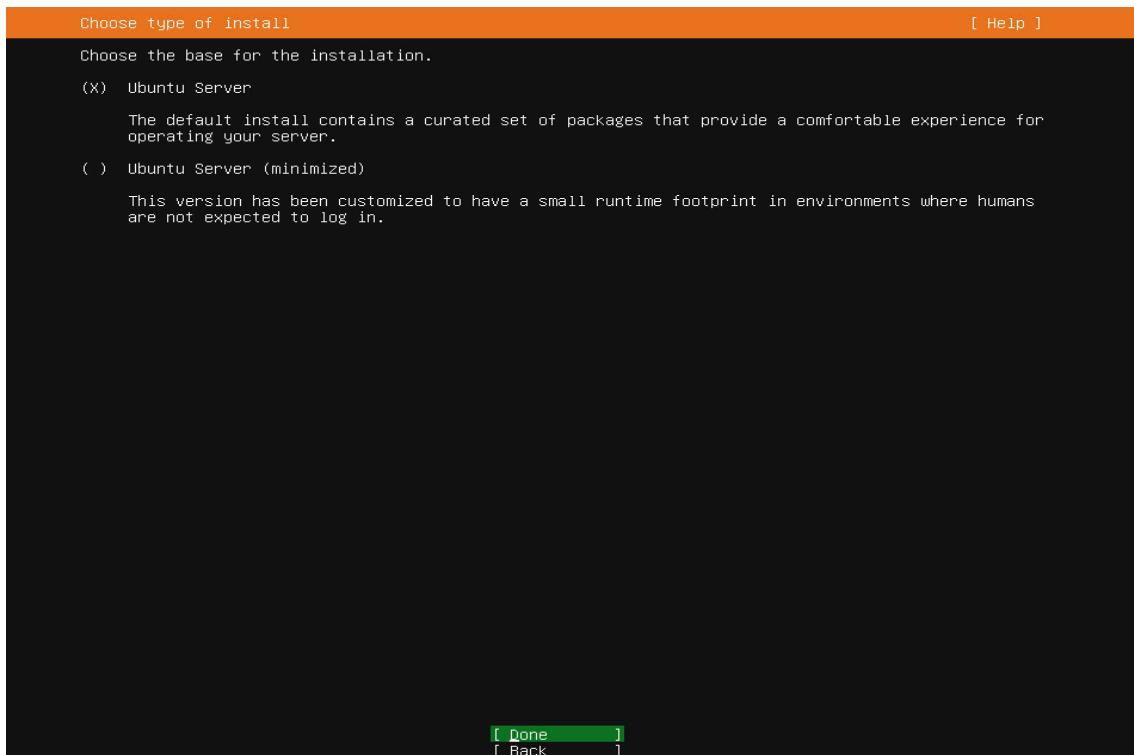
2.5 选择语言。



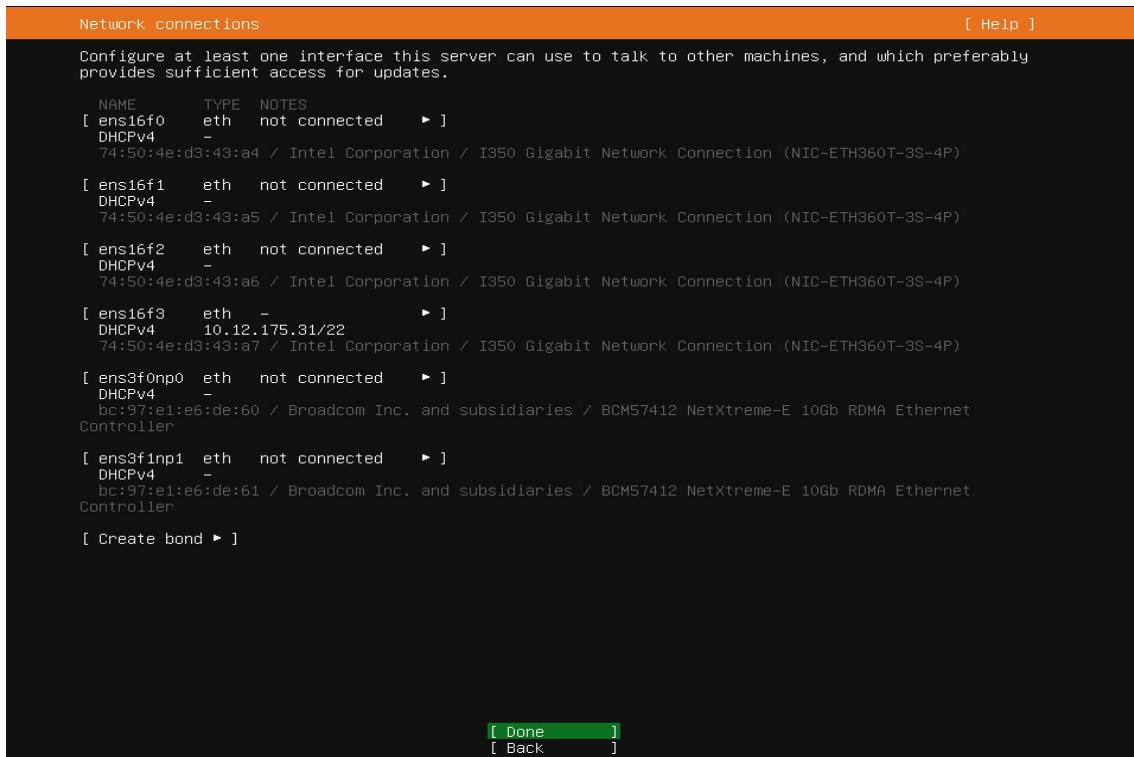
2.6 设置键盘布局，点击 Done 进入下一步。



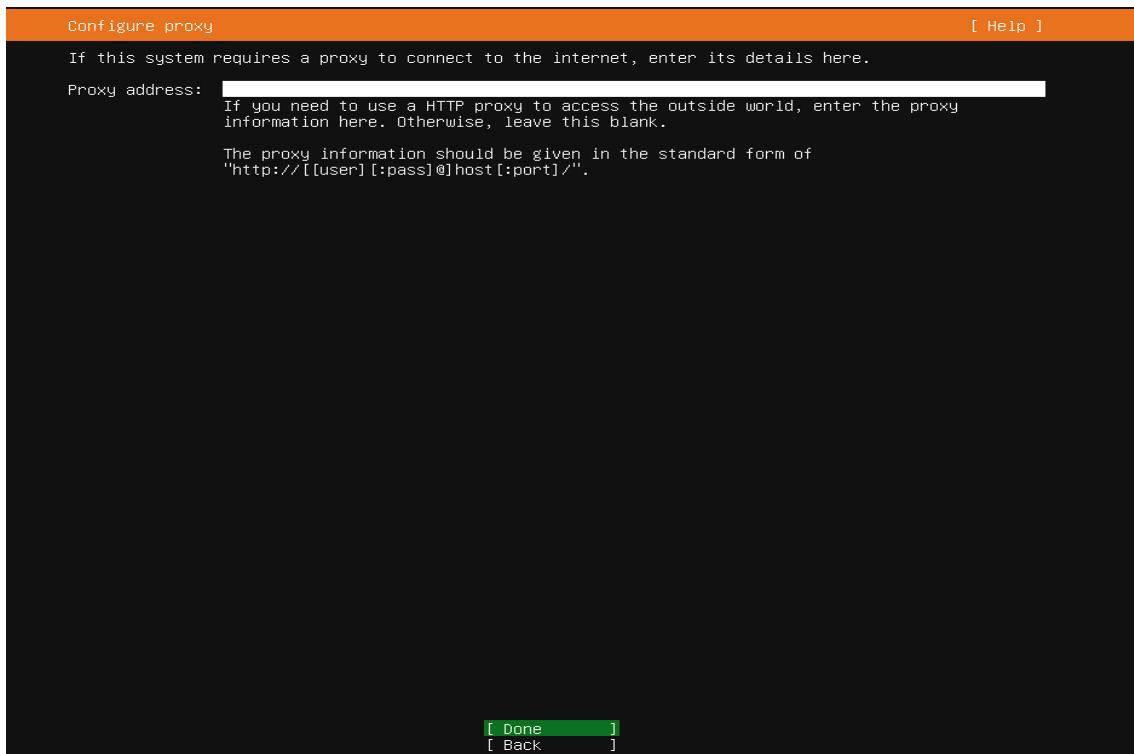
2.7 选择一个系统类型进行安装，回车 “Done” 进入下一步。



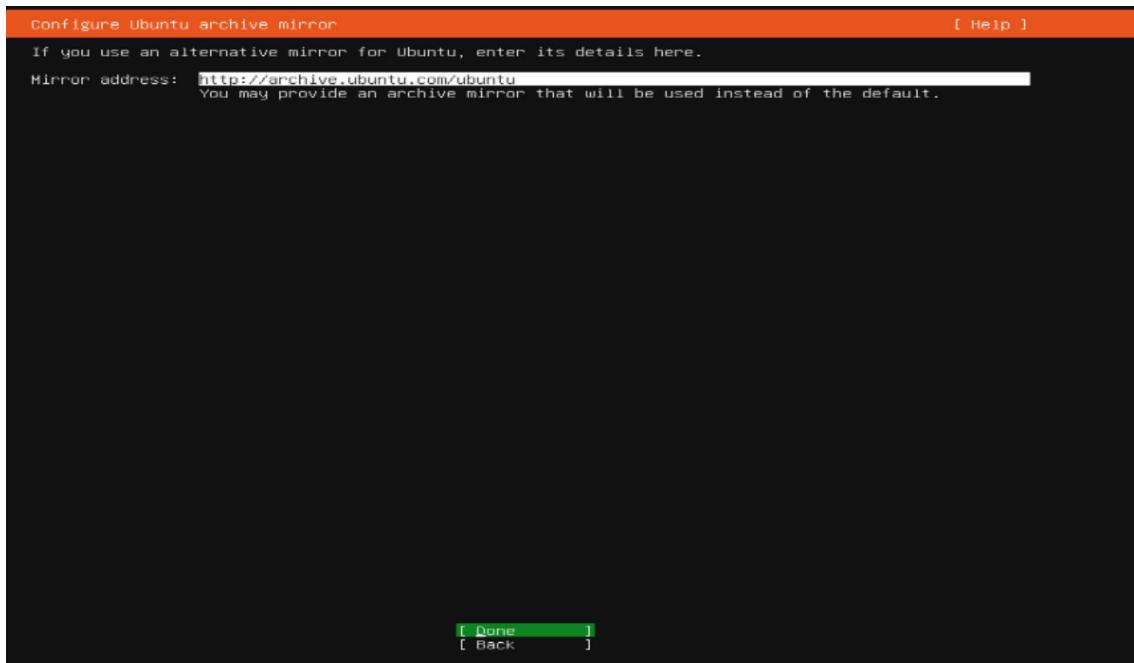
2.8 设置网络链接，可根据需求修改网卡获取 IP 地址模式，默认是 DHCP，配置好后选择 Done。 如果不需要在此界面配置，可以选择 “Continue without network” 配置好后选择 Done 进入下一步。



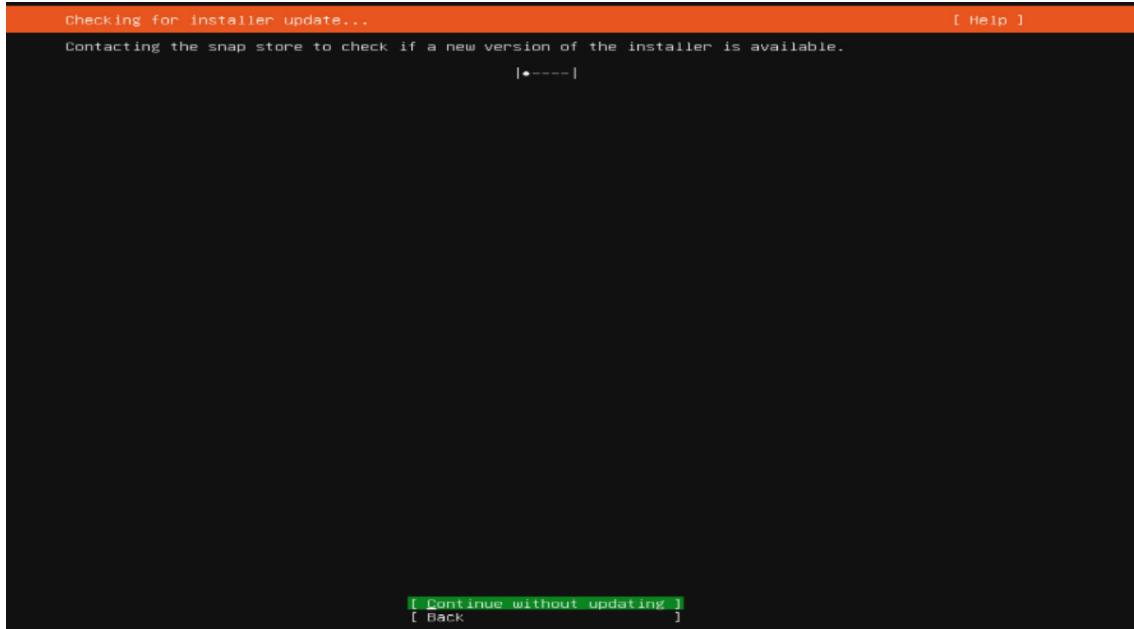
2.9 设置代理服务器，可以根据需要是否配置，不需要进行配置，选择“Done”按<Enter>键进入下一步即可。



2.10 设置镜像源地址，在“Mirror address”输入框中输入镜像源地址，若无特殊要求可以保持默认设置，选择“Done”按<Enter>键进入下一步。

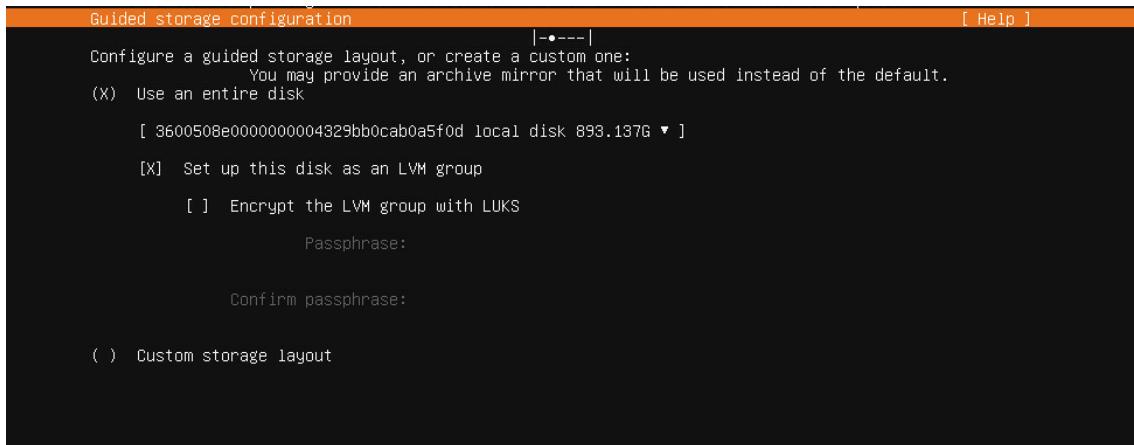


2.11 检查安装包更新，选择“continue without updating”选项按<Enter>键进入下一步。

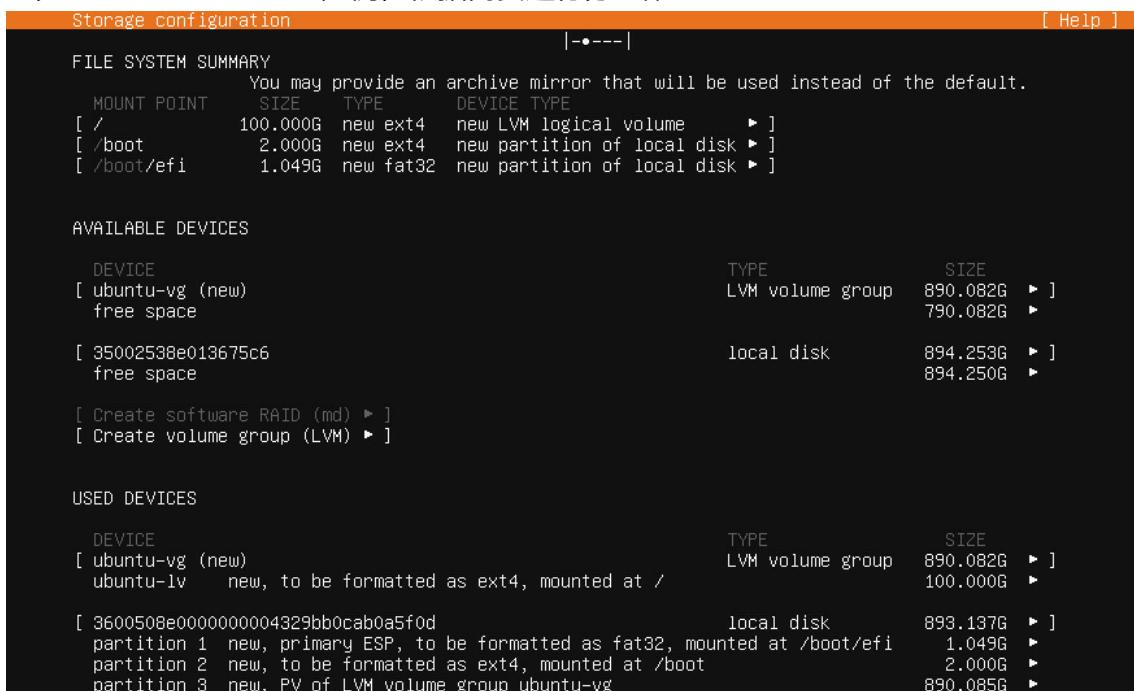


2.12 设置磁盘分区，可以选择自动或者手动分区。

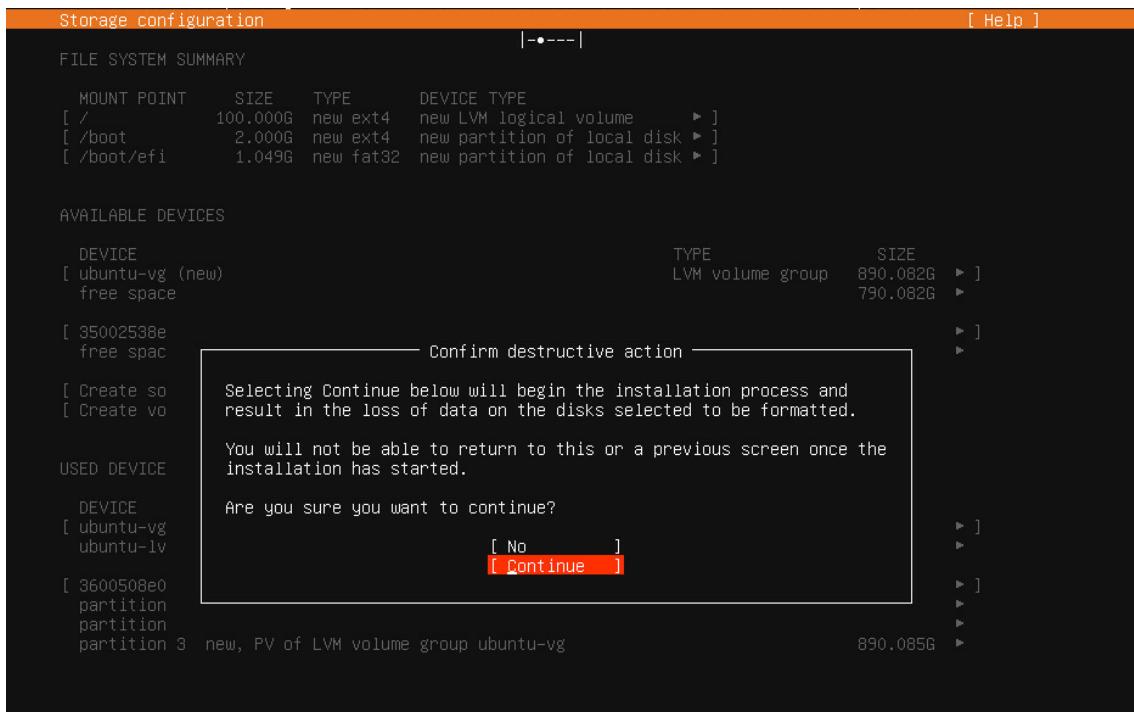
- Use an entire disk 模式：选择一个磁盘后将光标移动到“Done”按键，系统将按照默认设置对磁盘进行分区。
- Custom storage layout 模式：将光标移动到“Done”按键将进入手动分区设置界面。



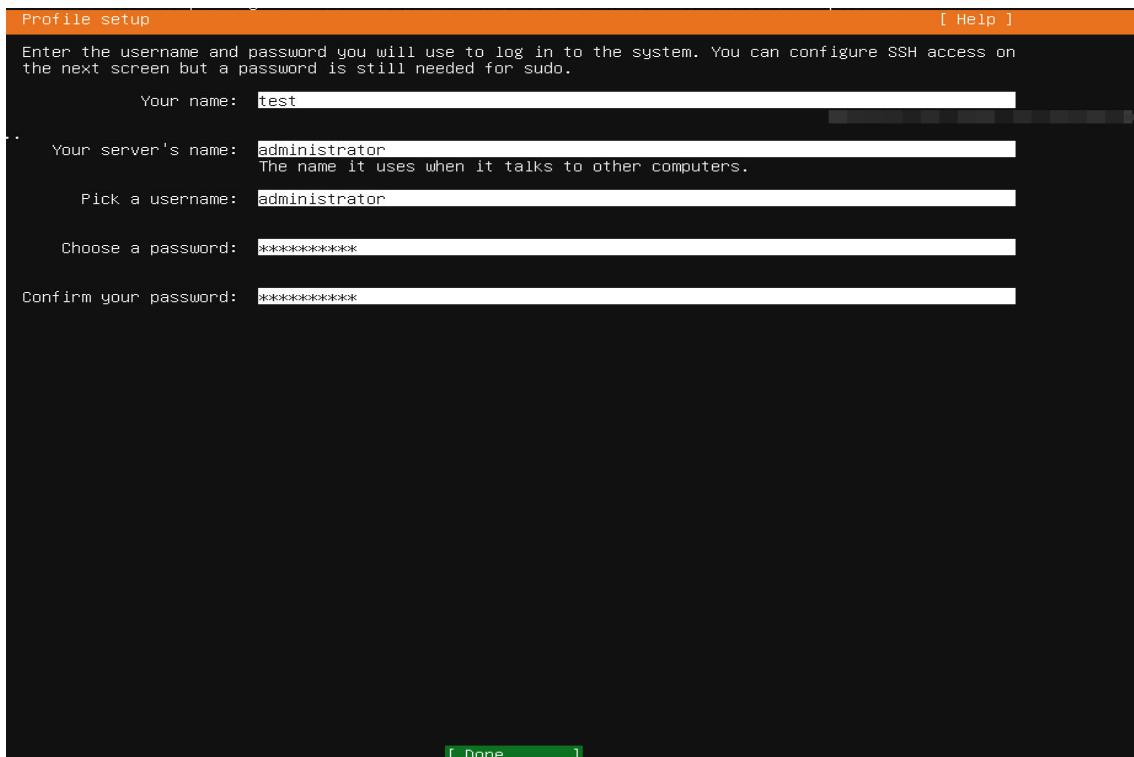
2.13 以 Use an entire disk 为例，根据需要进行分区配置。



2.14 弹窗提示确认清除磁盘数据，选择“continue”按 Enter 键进入下一步。

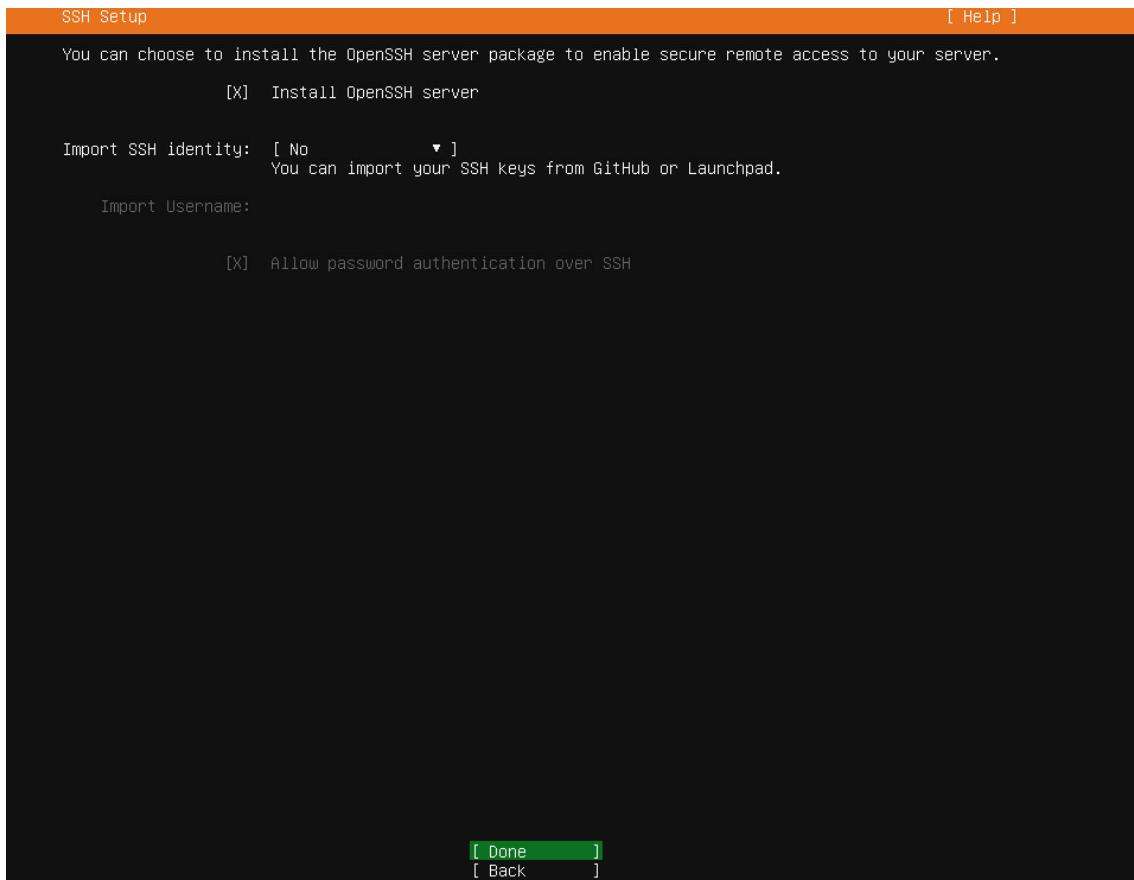


2.15 设置用户名、服务器名及密码，设置完成后将光标移动到“Done”，按<Enter>键进入下一步。

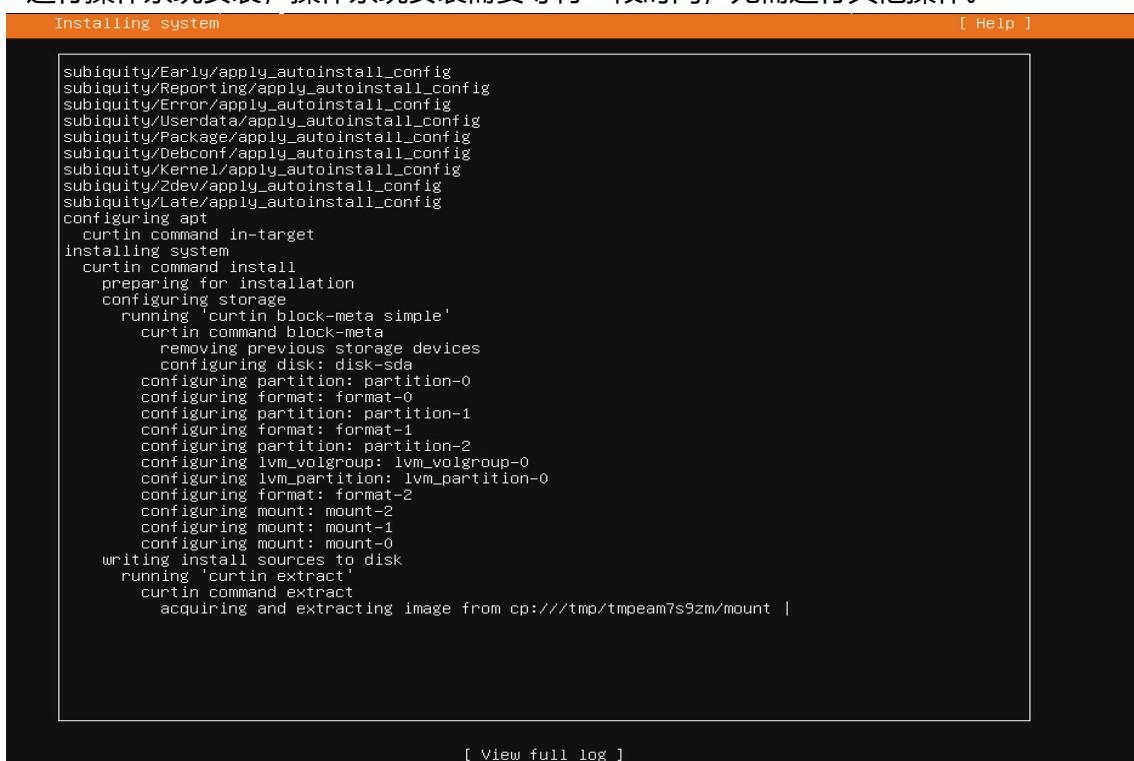


2.16 按<空格键>选择“Install OpenSSH server”，将光标移到“Done”按<Enter>进行安装。

注：需要安装 OpenSSH 服务，否则系统完成安装后无法使用 SSH。



2.17 进行操作系统安装，操作系统安装需要等待一段时间，无需进行其他操作。



2.18 操作系统安装完成，将光标移动到“Reboot Now”按<Enter>键重启服务器。

```
Install complete!
  curtin command block-meta
  configuring partition: partition-2
  configuring format: format-2
  configuring mount: mount-2
  configuring mount: mount-1
  configuring mount: mount-0
  writing install sources to disk
  running 'curtin extract'
    curtin command extract
      acquiring and extracting image from cp:///tmp/tmpeam7s9zm/mount
  configuring installed system
    running 'mount --bind /cdrom /target/cdrom'
    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
  finalizing installation
    running 'curtin hook'
      curtin command hook
    executing late commands
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 /
[ Help ]
[ View full log ]
[ Cancel update and reboot ]
```



```
Install complete!
  curtin command block-meta
  configuring partition: partition-2
  configuring format: format-2
  configuring mount: mount-2
  configuring mount: mount-1
  configuring mount: mount-0
  writing install sources to disk
  running 'curtin extract'
    curtin command extract
      acquiring and extracting image from cp:///tmp/tmpeam7s9zm/mount
  configuring installed system
    running 'mount --bind /cdrom /target/cdrom'
    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
  finalizing installation
    running 'curtin hook'
      curtin command hook
    executing late commands
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 /
[ Help ]
[ View full log ]
[ Cancel update and reboot ]
```

2.19 在系统登录界面输入设置的账户名和密码，即可登录系统。

```
Ubuntu 22.04 LTS administrator tty1

administrator login: administrator
Password:
Welcome to Ubuntu 22.04 LTS (GNU/Linux 5.15.0-131-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

 System information as of Wed Feb 12 05:13:48 AM UTC 2025

System load: 0.32080078125   Temperature:          41.0 °C
Usage of /: 11.2% of 97.87GB Processes:           1140
Memory usage: 1%            Users logged in:      0
Swap usage:  0%            IPv4 address for ens16f3: 10.12.175.31

113 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

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.

administrator@administrator:~$ _
```