

H3C G7 AMD 平台服务器通过 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 G7 AMD 平台系列服务器通过 U 盘安装系统的方法，并以 R4950 G7 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。
- 本文所述安装过程如涉及挂载文件/文件夹（高级版），需要购买 HDM License，如想要使用此功能请联系经销商购买并在激活后使用。
HDM License 的注册安装方法请参考：<https://zhiliao.h3c.com/Theme/details/232557>
- 如文中方法不适用或型号不匹配，可以通过下面导航链接查找适用文档：
<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/232291>

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/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/232282>

三. 安装步骤

1. 挂载启动 U 盘

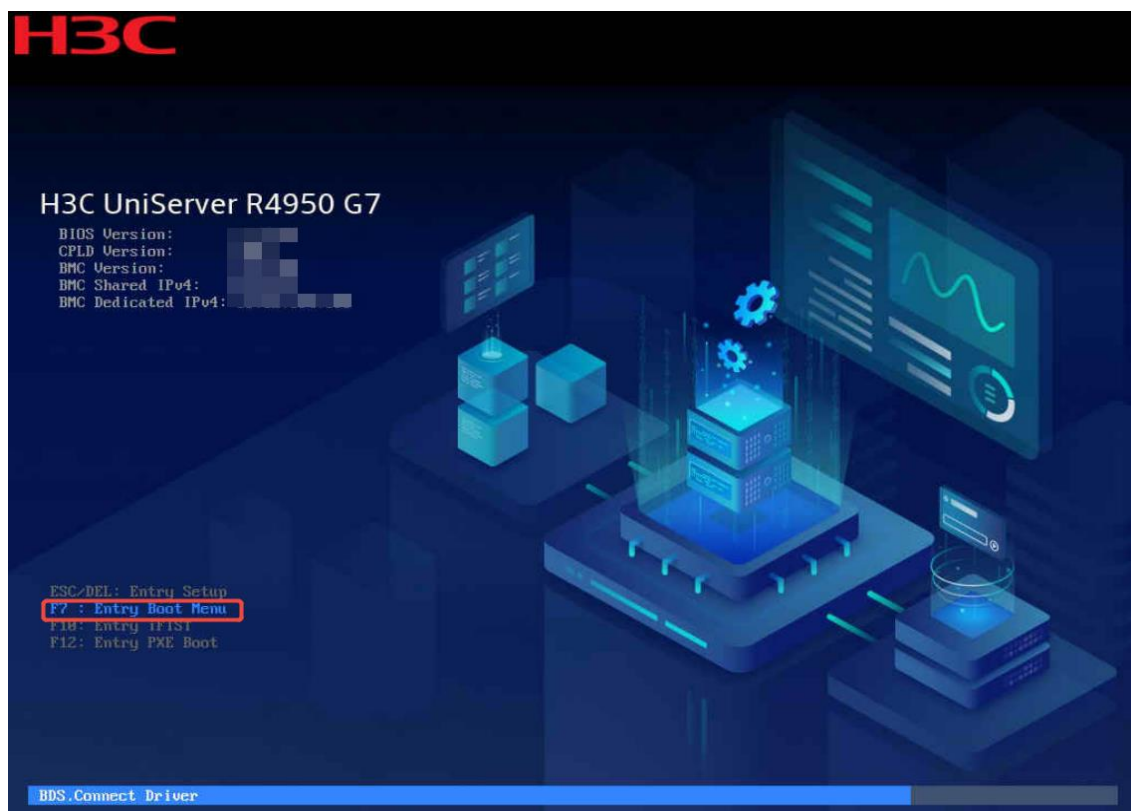
服务器通常默认配置多个 USB 接口，对外接口一般位于前后两侧面板。下图以 2U 服务器为例，可在右侧智能挂而处看到 USB 接口。

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。

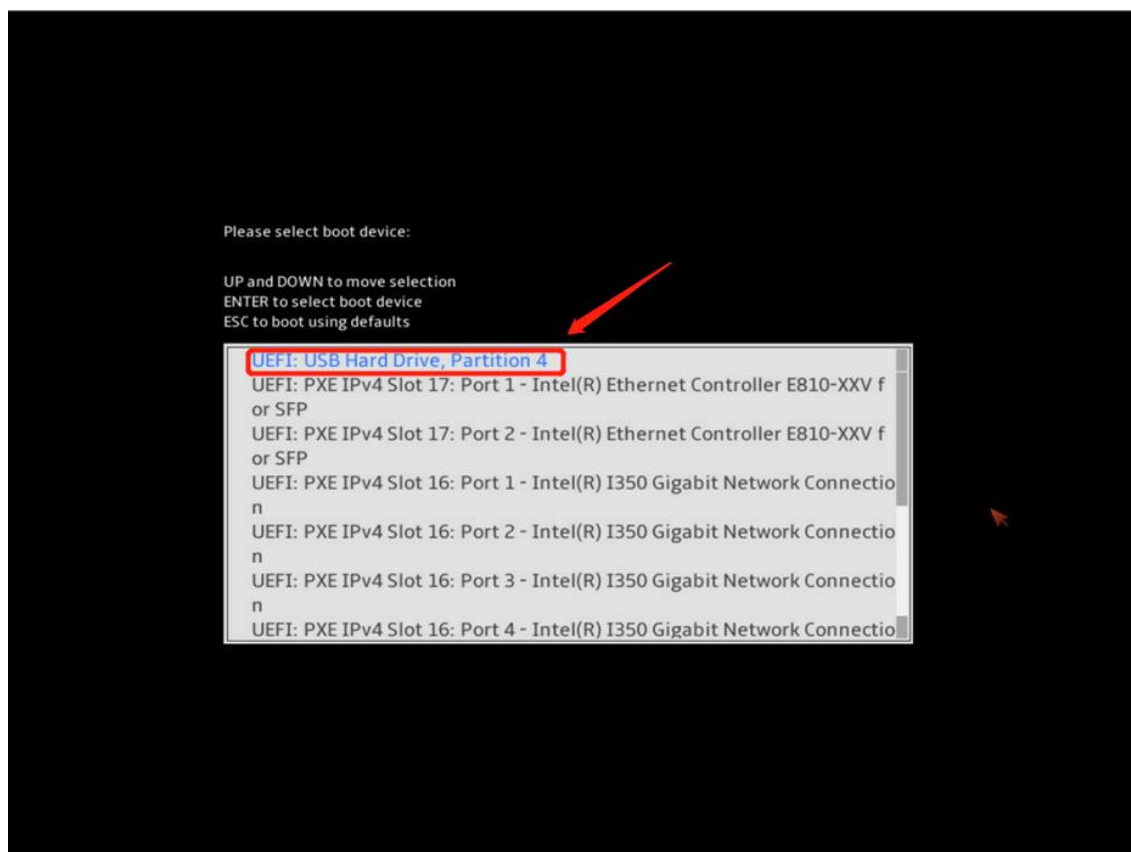


2. 引导系统安装

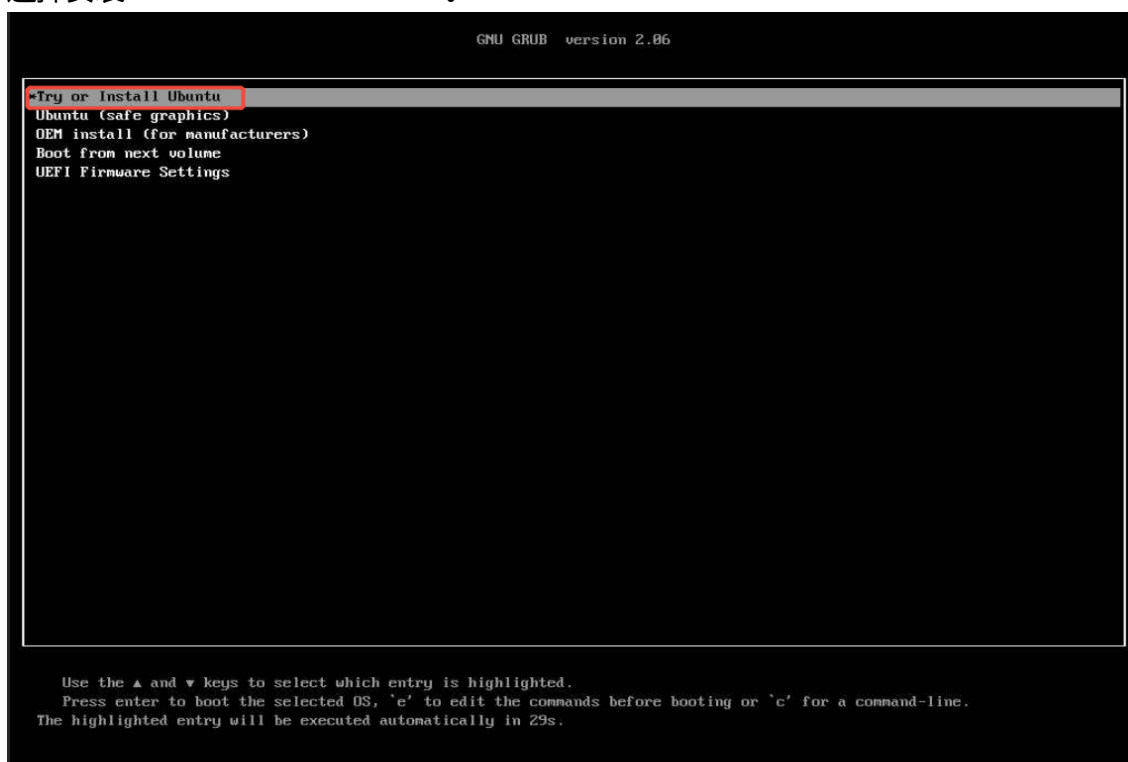
2.1 启动服务器，在开机自检界面按下 **F7**，选择启动项。



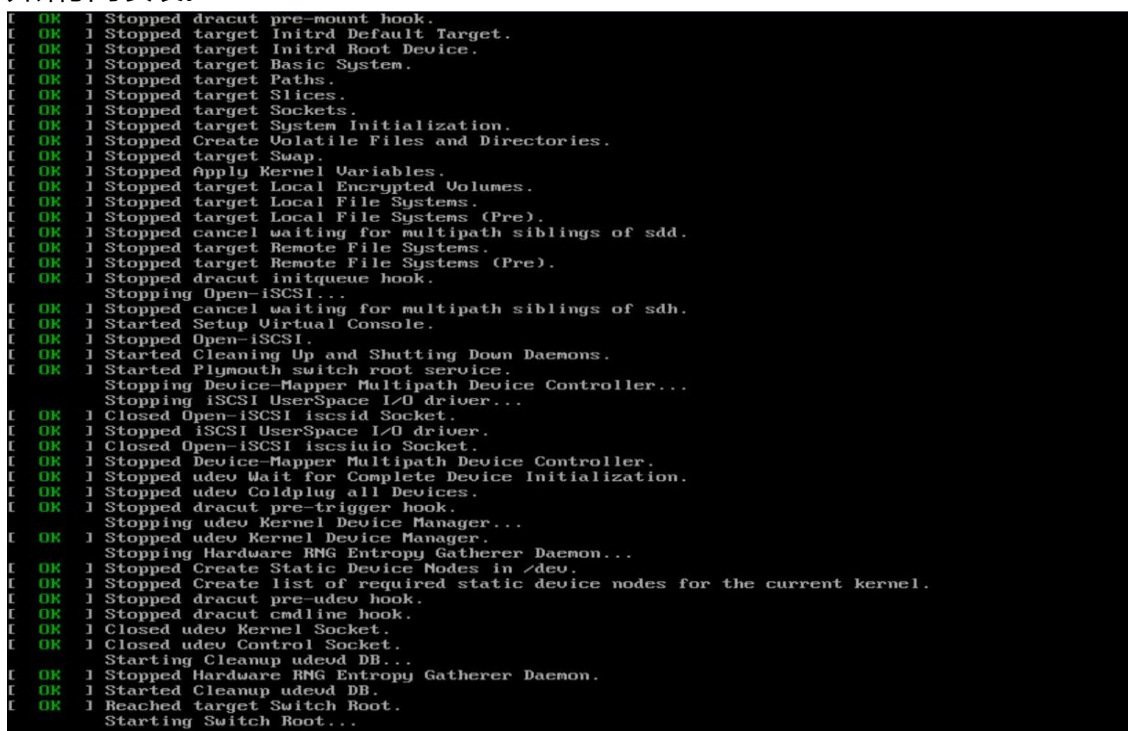
2.2 选择 UEFI: USB Hard Drive.



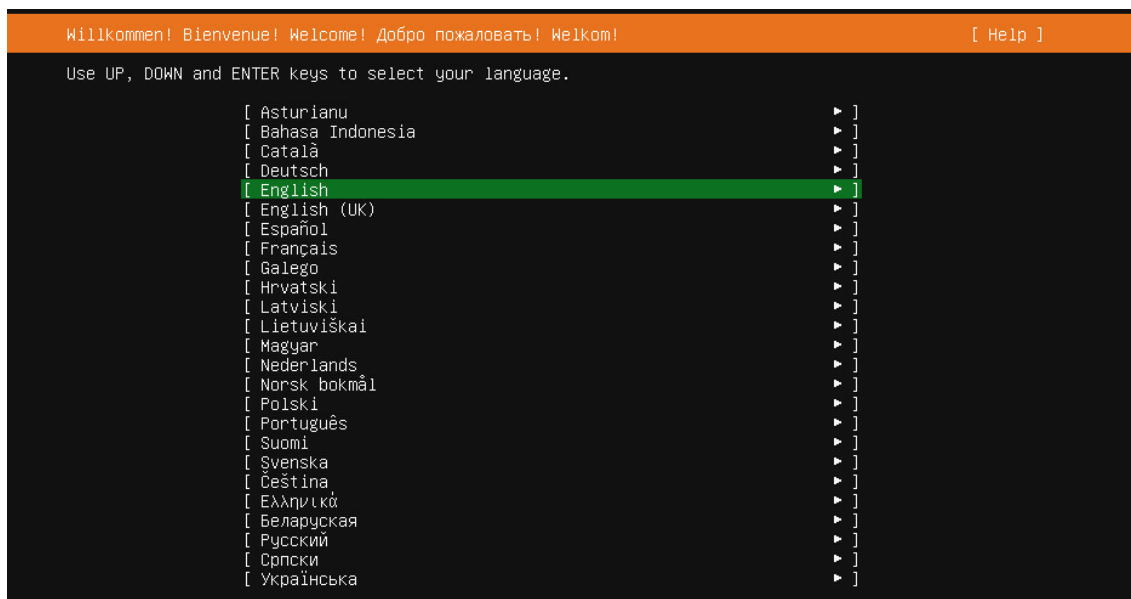
2.3 选择安装 Install Ubuntu Server。



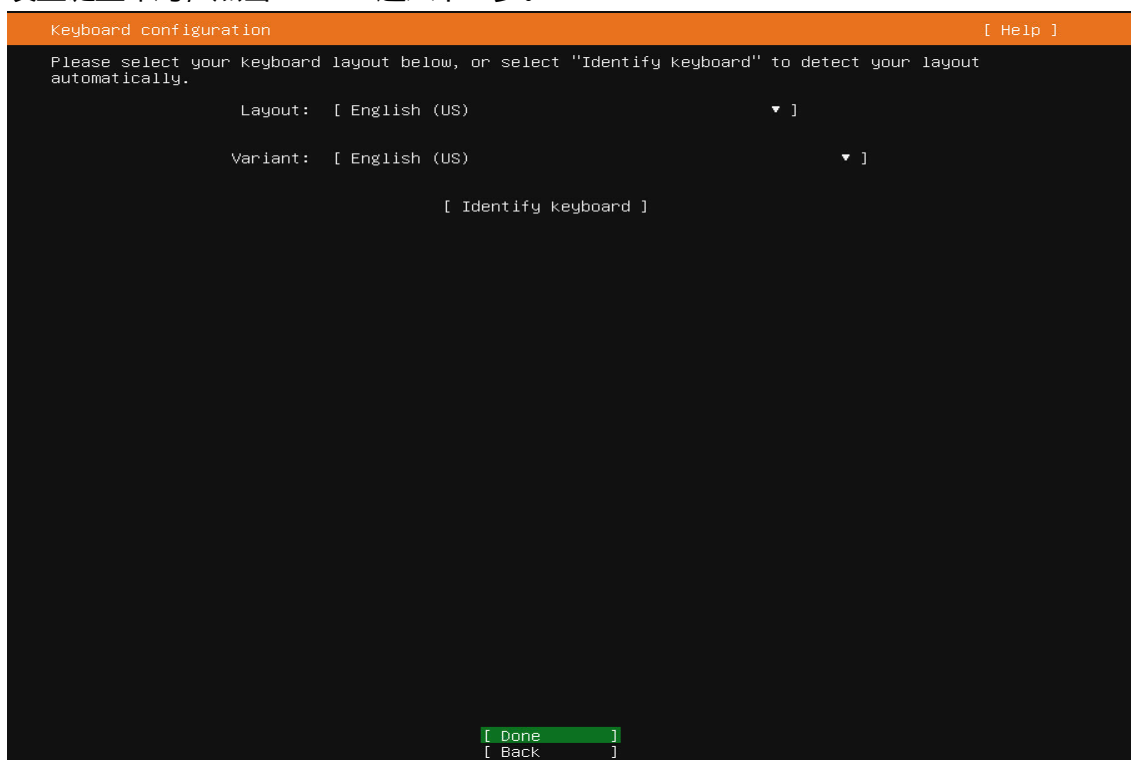
2.4 开始引导安装。



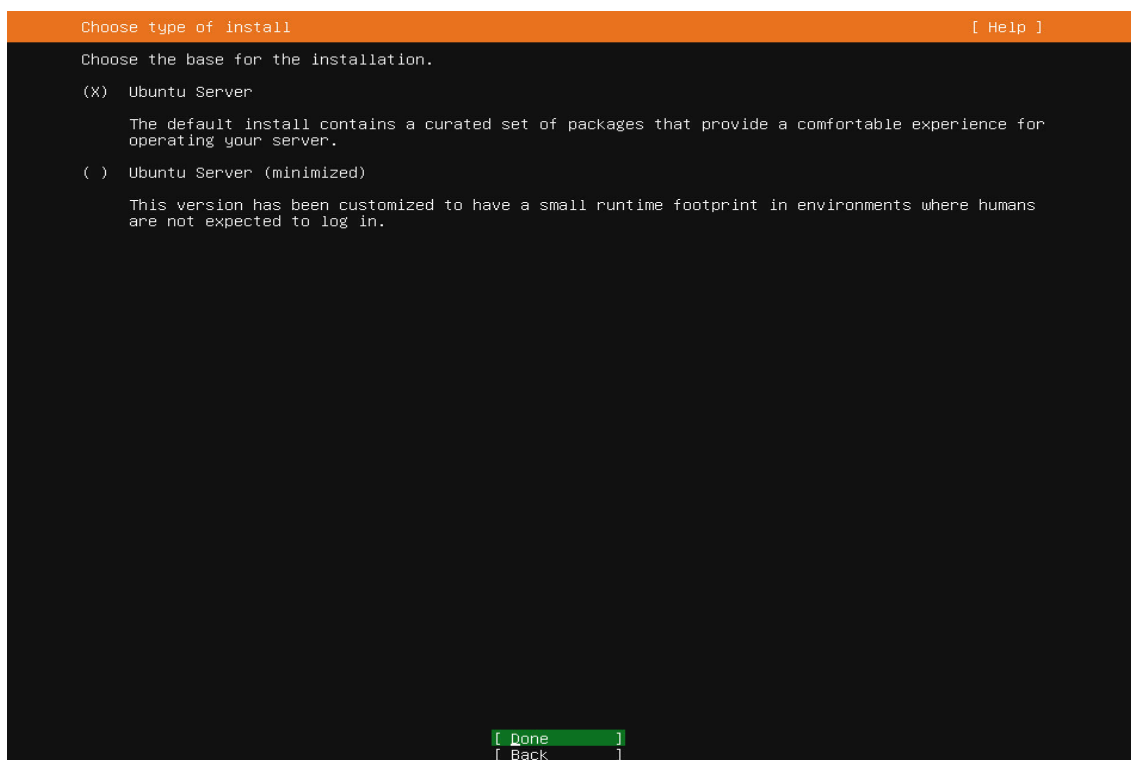
2.5 选择语言。



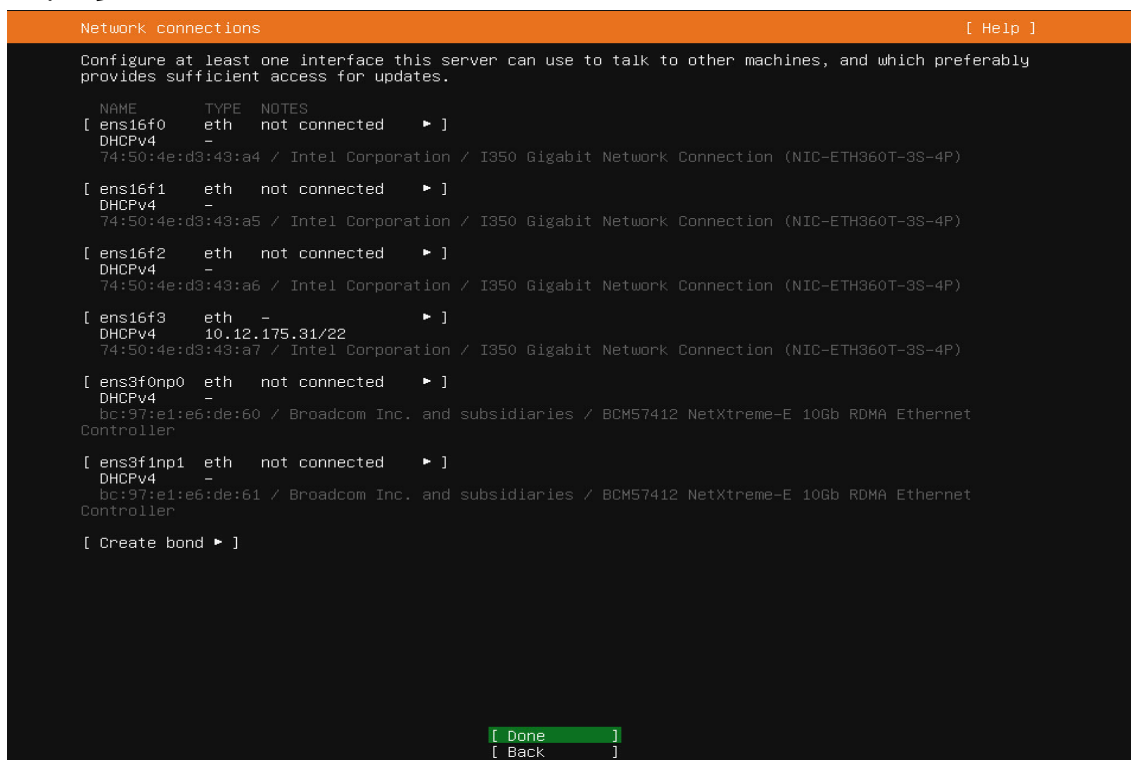
2.6 设置键盘布局，点击 Done 进入下一步。



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。

Configure proxy [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]/".

[Done]
[Back]

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。

Configure Ubuntu archive mirror [Help]

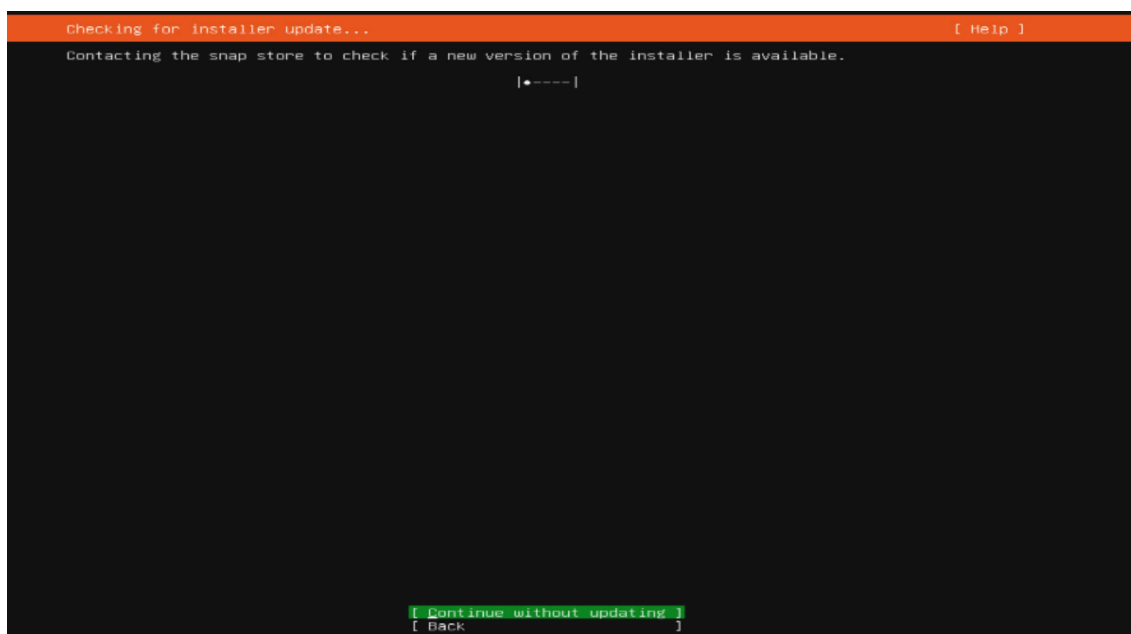
If you use an alternative mirror for Ubuntu, enter its details here.

Mirror address:

You may provide an archive mirror that will be used instead of the default.

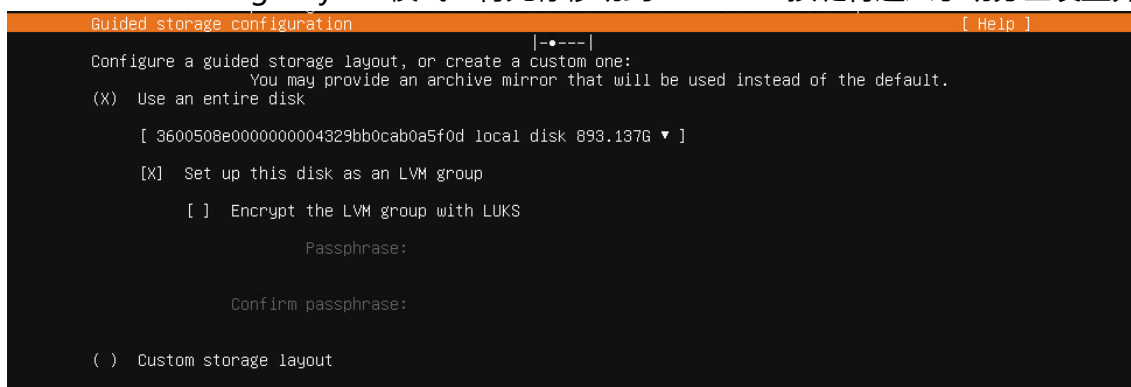
[Done]
[Back]

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。


```
Storage configuration [ Help ]
|-----|
FILE SYSTEM SUMMARY
You may provide an archive mirror that will be used instead of the default.
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)                      LVM volume group  890.082G ▶ ]
  free space                               790.082G ▶ ]

[ 35002538e013675c6                    local disk      894.253G ▶ ]
  free space                               894.250G ▶ ]

[ Create software RAID (md) ▶ ]
[ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE                                TYPE  SIZE
[ ubuntu-vg (new)                      LVM volume group  890.082G ▶ ]
  ubuntu-lv    new, to be formatted as ext4, mounted at /  100.000G ▶ ]

[ 3600508e000000004329bb0cab0a5f0d    local disk      893.137G ▶ ]
  partition 1  new, primary ESP, to be formatted as fat32, mounted at /boot/efi  1.049G ▶ ]
  partition 2  new, to be formatted as ext4, mounted at /boot  2.000G ▶ ]
  partition 3  new, PV of LVM volume group ubuntu-vg  890.085G ▶ ]
```

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。

```
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)                      LVM volume group  890.082G ▶ ]
  free space                               790.082G ▶ ]

[ 35002538e013675c6                    local disk      894.253G ▶ ]
  free space                               894.250G ▶ ]

[ Create software RAID (md) ▶ ]
[ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE                                TYPE  SIZE
[ ubuntu-vg (new)                      LVM volume group  890.082G ▶ ]
  ubuntu-lv    new, to be formatted as ext4, mounted at /  100.000G ▶ ]

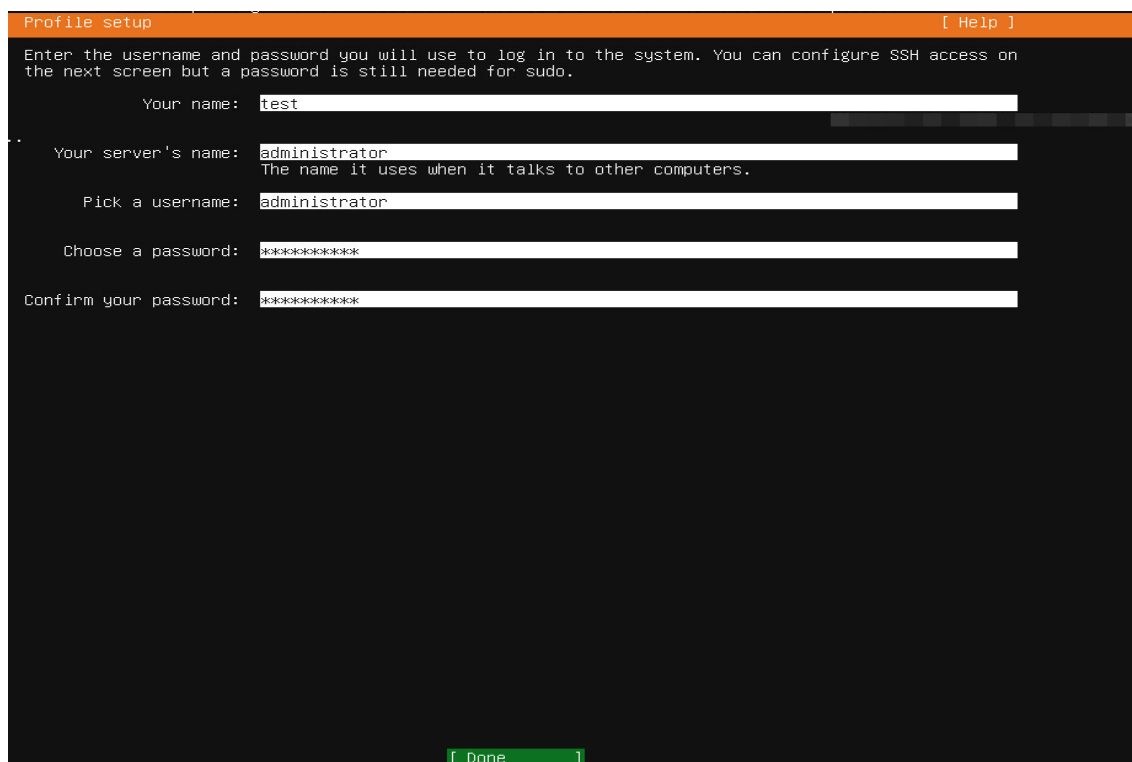
[ 3600508e000000004329bb0cab0a5f0d    local disk      893.137G ▶ ]
  partition 1  new, primary ESP, to be formatted as fat32, mounted at /boot/efi  1.049G ▶ ]
  partition 2  new, to be formatted as ext4, mounted at /boot  2.000G ▶ ]
  partition 3  new, PV of LVM volume group ubuntu-vg  890.085G ▶ ]

Confirm destructive action
Selecting Continue below will begin the installation process and
result in the loss of data on the disks selected to be formatted.

You will not be able to return to this or a previous screen once the
installation has started.

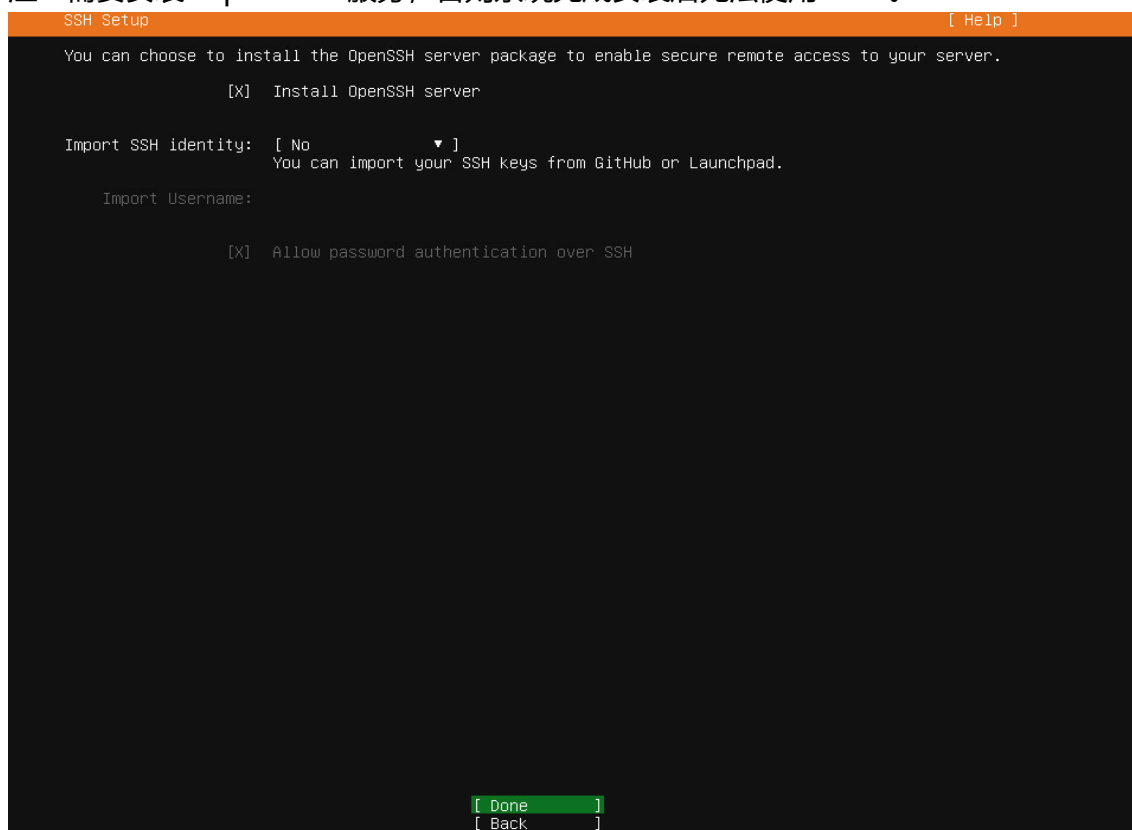
Are you sure you want to continue?
[ No ]
[ Continue ]
```

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。

```
Installing system [ Help ]

subiquity/Early/apply_autoinstall_config
subiquity/Reporting/apply_autoinstall_config
subiquity/Error/apply_autoinstall_config
subiquity/Userdata/apply_autoinstall_config
subiquity/Package/apply_autoinstall_config
subiquity/Debconf/apply_autoinstall_config
subiquity/Kernel/apply_autoinstall_config
subiquity/Zdev/apply_autoinstall_config
subiquity/Late/apply_autoinstall_config
configuring apt
curtin command in-target
installing system
curtin command install
  preparing for installation
  configuring storage
    running 'curtin block-meta simple'
    curtin command block-meta
      removing previous storage devices
      configuring disk: disk-sda
      configuring partition: partition-0
      configuring format: format-0
      configuring partition: partition-1
      configuring format: format-1
      configuring partition: partition-2
      configuring lvm_voigroup: lvm_voigroup-0
      configuring lvm_partition: lvm_partition-0
      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 |

[ View full log ]
```

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! [ Help ]

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 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 /

[ View full log ]
[ Cancel update and reboot ]
```

```
Install complete! [ Help ]
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 /

[ 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:~$ _
```