

# H3C G5 PKG 系列服务器通过 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 PKG 系列服务器通过 U 盘安装操作,并以 R4930 G5 H3 PKG 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. 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



# 3. 连接 BMC 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 BMC 控制台完成后续操作。

具体方法请参考: https://zhiliao.h3c.com/theme/details/231698

# 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 重启服务器, 在开机自检界面按下 F7, 选择启动项。



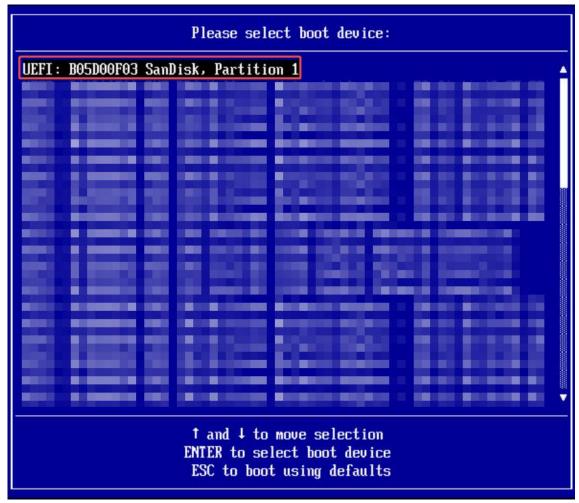
等待进入 F7 引导项界面

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2.2 选择 UEFI: SanDisk。



2.3 选择安装 Install Ubuntu Server。

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# GNU GRUB version 2.06 \*Try or Install Ubuntu Server Boot from next volume UEFI Firmware Settings

Use the ▲ and ▼ keys to select which entry is highlighted. before booting or `c' for a command-line.

The highlighted entry will be executed automatically in 23s.

# 2.4 开始引导安装。

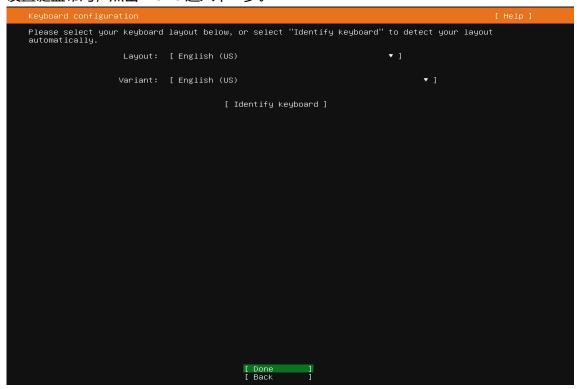
```
| Stopped dracut pre-mount hook.
| Stopped target Initrd Default Target.
| Stopped target Initrd Root Boulce.
| Stopped target Initrd Root Boulce.
| Stopped target Basic System.
| Stopped target Paths |
| Stopped target Sockets.
| Stopped target Sockets.
| Stopped target Sockets.
| Stopped target System Initialization.
| Stopped Apply Rernel Variables.
| Stopped Apply Rernel Variables.
| Stopped Apply Rernel Variables.
| Stopped arget Local File Systems.
| Stopped target Local File Systems.
| Stopped target Local File Systems.
| Stopped target Remote File Systems (Pre).
| Stopped darget Nemote File Systems (Pre).
| Stopped darget Workeld Console.
| Stopped darget Workeld Console.
| Stopped Gencel waiting for multipath siblings of sdh.
| Started Setup Uritual Console.
| Stopped Gencel Waiting for multipath siblings of sdh.
| Started Setup Uritual Console.
| Stopped Gencel Waiting for multipath believe Controller...
| Stopped Gencel Waiting For Multipath Device Controller...
| Stopping Devilee-Mapper Multipath Device Controller...
| Stopping Devilee-Mapper Multipath Device Controller...
| Stopping Devilee-Mapper Multipath Device Controller...
| Stopped Devilee-Mapper Multipath Devilee Initialization.
| Stopped dareut pre-trigger hook.
| Stopped dareut pre-trig
```

# 2.5 选择语言。

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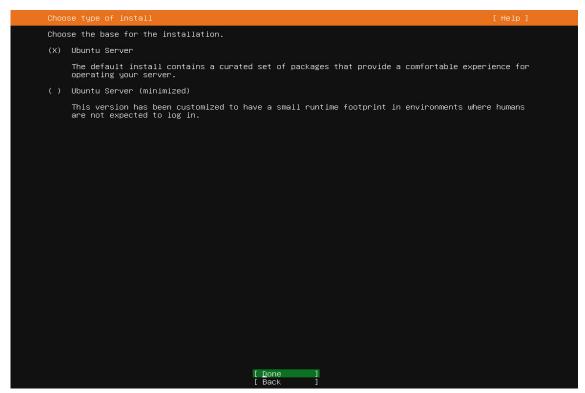
2.6 设置键盘布局,点击 Done 进入下一步。



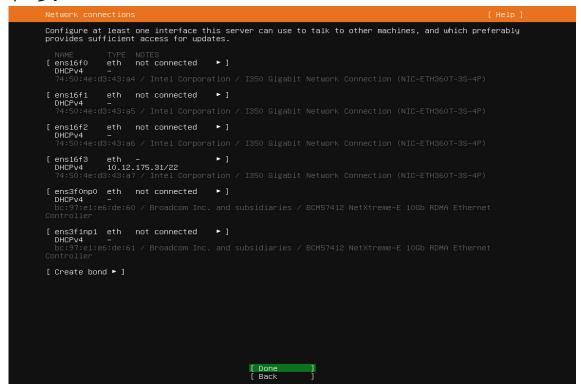
2.7 选择一个系统类型进行安装,回车 Done 进入下一步。

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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。

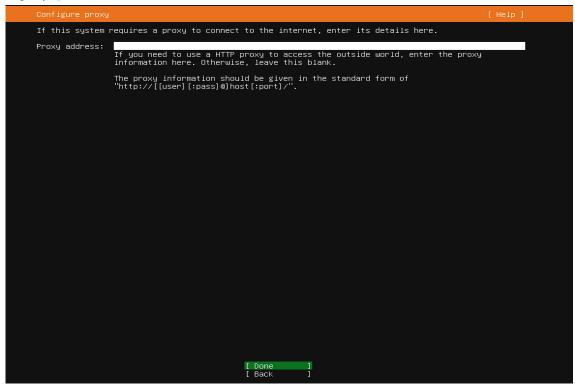


2.9 设置代理服务器,可以根据需要是否配置,不需要进行配置,选择 Done 按 < Enter > 键进入下

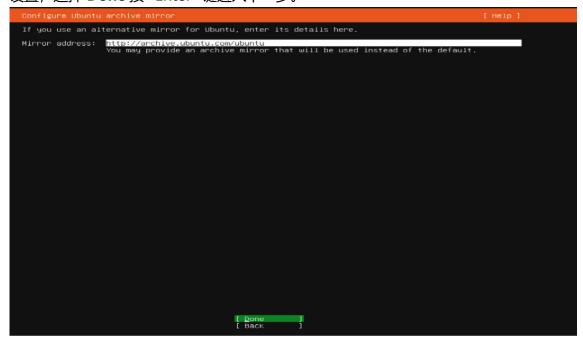
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### 一步即可。



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。

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- 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。

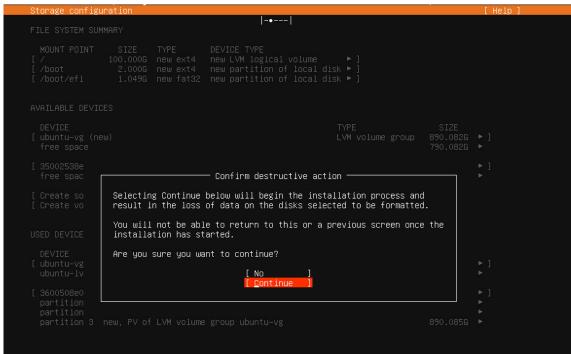
2.13 以 Use an entire disk 为例,根据需要进行分区配置。

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```
|-•---|
FILE SYSTEM SUMMARY
                       You may provide an archive mirror that will be used instead of the default.
                                 new ext4 new LVM logical volume ▶ ]
new ext4 new partition of local disk ▶ ]
new fat32 new partition of local disk ▶ ]
                     100.000G new ext4
   /boot
                       2.000G
   /boot/efi
AVAILABLE DEVICES
                                                                                                            890.082G ► ]
                                                                                   LVM volume group
[ ubuntu-vg (new)
   free space
                                                                                                             790.082G
[ 35002538e013675c6
                                                                                    local disk
                                                                                                             894.253G
                                                                                                                         • ]
   free space
                                                                                                             894.250G
[ Create volume group (LVM) ▶ ]
HISED DEVICES
[ ubuntu-vg (new)
                                                                                   LVM volume group
                                                                                                             890.082G
                   new, to be formatted as ext4, mounted at /
   ubuntu-1v
                                                                                                             100.000G
                                                                                                             893.137G ► ]
[ 3600508e0000000004329bb0cab0a5f0d
                                                                                   local disk
   partition 1 new, primary ESP, to be formatted as fat32, mounted at /boot/efi
partition 2 new, to be formatted as ext4, mounted at /boot
partition 3 new, PV of LVM volume group ubuntu-vg
                                                                                                               1.049G
2.000G
                                                                                                            890.085G
```

2.14 弹窗提示确认清除磁盘数据,选择 Continue 按 < Enter > 键键进入下一步。



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。

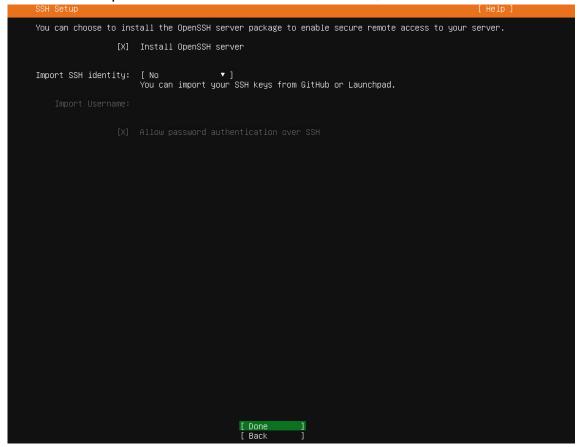
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Profile setup	[ Help ]		
Enter the username and password you will use to log in to the system. You can configure SSH access on the next screen but a password is still needed for sudo.			
Your name: test			
2.00			
Your server's name: administra The name i	tor t uses when it talks to other computers.		
Pick a username: administra	tor		
Choose a password: ************************************			
Confirm your password: ************************************			
	[ <u>D</u> one ]		

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。



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### 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。

```
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/Package/apply_autoinstall_config
subiquity/Kernel/apply_autoinstall_config
subiquity/Earel/apply_autoinstall_config
subiquity/Late/apply_autoinstall_config
subiquity/Late/apply_autoinstall_config
configuring aut
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 partition: partition-1
configuring partition: partition-1
configuring partition: partition-2
configuring partition: lvm_volgroup-0
configuring lvm_volgroup: lvm_volgroup-0
configuring format: format-2
configuring format: format-2
configuring wount: 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。

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

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```
Install complete

curtin command block-meta

configuring partition: partition-2

configuring partition: partition-2

configuring mount: mount-2

configuring mount: mount-2

configuring mount: mount-2

configuring mount: mount-2

curtin command extract

acquiring and extracting image from cp://tmp/tmpeam7s9zm/mount

configuring installed system

running 'curtin curthooks'

curtin command extracting inage from cp://tmp/tmpeam7s9zm/mount

configuring installed system

running 'curtin curthooks'

curtin command curthooks

curtin command curthooks

curtin command curthooks

curtin command curthooks

curtin command in target system: ['efibootmgr', 'grub-efi-amd64',

'grub-efi-amd64-signed', 'shim-signed']

'grub-efi-amd64-signed', 'shim-signed']

configuring raid (madam) service

installing kennel

setting up swap

apply networking config

uriting etc/fistab

configuring moutionant target system

configuring moutionant

configuring moutionant

configuring pollinate user-asgent on target

updating initranfs configuration

configuring target system bootloader

installing grub to target devices

finalizing installation

running 'curtin hook

curtin command book

executing late commands

final system configuration

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
                  https://landscape.canonical.com
* Management:
                  https://ubuntu.com/advantage
 * Support:
 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
                                                             1140
                                  Processes:
 Memory usage: 1%
                                  Users logged in:
                                   IPv4 address for ens16f3: 10.12.175.31
 Swap usage: 0%
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;
he 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:~$ _
```

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