# 系统安装步骤如下

- 1、下载系统镜像
- 2、制作系统U盘启动盘
- 3、安装前准备:具体要求参考文档《服务器硬件与磁盘阵列和系统盘分区的关系》,相关主机名和IP信息在《XXX机房详细规划》里面
  - 配置磁盘阵列卡
  - Bios修改
  - IPMI远程管理口配置
- 4、安装系统:具体要求参考文档《服务器硬件与磁盘阵列和系统盘分区的关系》
  - 注意磁盘分区
- 5、确保网络通畅
  - 业务网络正常,可以在系统里面ping qq.com测试
  - 管理网络正常,可以远程登录IPMI管理口测试

# 1、下载系统镜像

ubuntu定制版系统下载链接: https://pan.baidu.com/s/1UFw fAzw2Et3ZYZ414YiVg

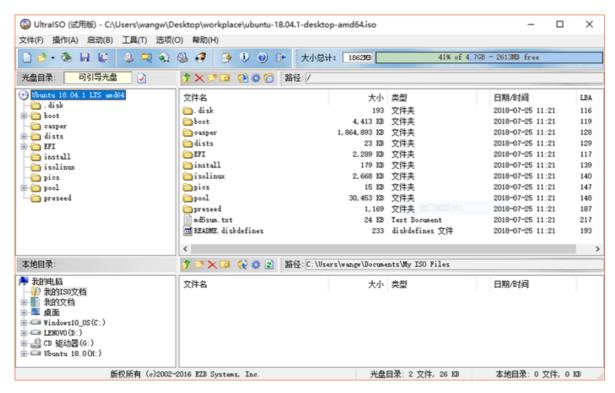
提取码: kqub

# 2.制作U盘启动盘

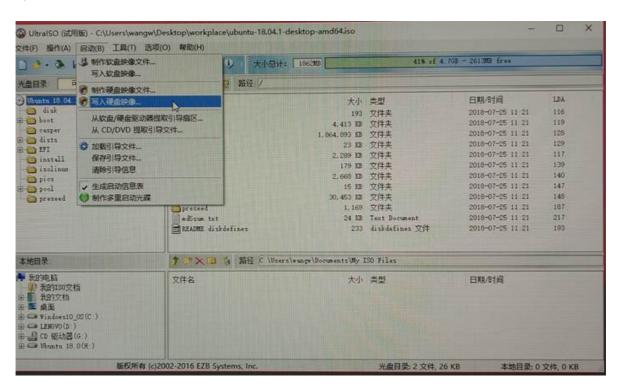
- 1) 安装制作工具: UltralSO (点我下载), 下载完成后安装
- 2) 插入用来做启动盘的U盘(最好是usb3.0接口,16GB或以上),并清空里面的文件
- 3) 打开安装好的UltralSO, 点击继续试用按钮工作界面
- 4) 进入工作界面后,点击菜单栏**文件(F)**,在弹出的选项卡里点击**打开**



5) 在弹出的文件选择对话框中找到下载好的 Ubuntu18.04.1 LTS 镜像文件, 打开后如下图所示:



6) 点击菜单栏上的启动, 在弹出的选项卡里点击写入硬盘映像



7) 在弹出的新窗口中,

硬盘驱动器:选择**刚刚插入的U盘**写入方式:设置为USB-HDD+

其余需要勾选的不管,采用默认的设置就行

然后可以**格式化**一下



8) 写入过程大概会持续4~5分钟,完成后界面如下图所示,接着点击返回按钮



至此, 启动盘制作完成!

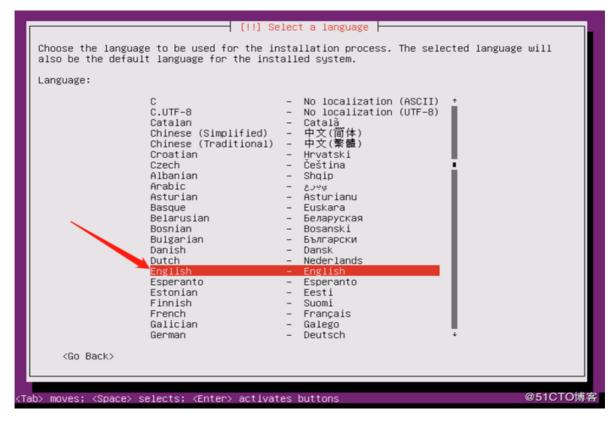
- 3、安装前准备:每种机器不同,需要自行进入BIOS进行设置
- 1) 选择安装语言:

		Langua	Language Македонски Tamil Маlayalam తెలుగు Marathi Thai Burmese Tagalog				
Amha	ric Françai	s Ma	акедонски		Tamil		
Arab	ic Gaeilge	Ma	alayalam		తెలుగు		
Astu	rianu Galego	Ma	arathi		Thai		
Бела	руская Gujarat	i Bu	urmese		Tagalog		
Бълг	арски шברית	Ne	epali		Türkçe		
Beng	ali Hindi	Ne	ederlands		Uyghur		
Tibe	tan Hrvatsk	i No	orsk bokmål		Українська		
Bosa	nski Magyar	No.	orsk nynorsk		Tiếng Việt		
Cata	là Bahasa:	[ndonesia   Pι	unjabi(Gurmukh		中文(简体)		
Češt	ina Íslensk	a Po	olski		中文(繁體)		
Dans		) P(	ortuguês do Bra	sil			
Deut	sch 日本語	P	ortuguês				
Dzon	gkha ქართული	Ro	omână				
Ελλη	νικά Қазақ	P	усский				
Eng1			ámegillii				
Espe	ranto ಕನ್ನಡ	. දිය	ິ∘හ⊚				
Espa	ñol 한국어	Si	lovenčina				
Eest	i Kurdî	Si	lovenščina				
Eusk	ara Lao	St	hqip				
ىسراف	s Lietuvi:	škai Cp	рпски				
Suom			venska				
F1 Help F2 Lang	uage <b>F3</b> Keymap	F4 Modes F5 A	Accessibility	F6 Oth	er <b>@51CTO博</b>		

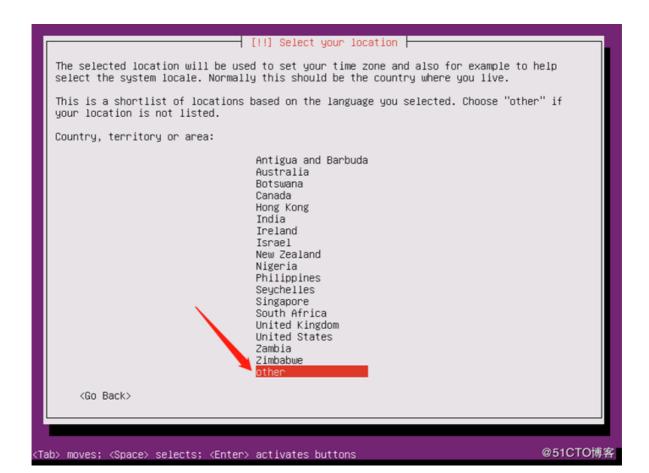
## 1.2 安装界面选择第一项进行系统安装

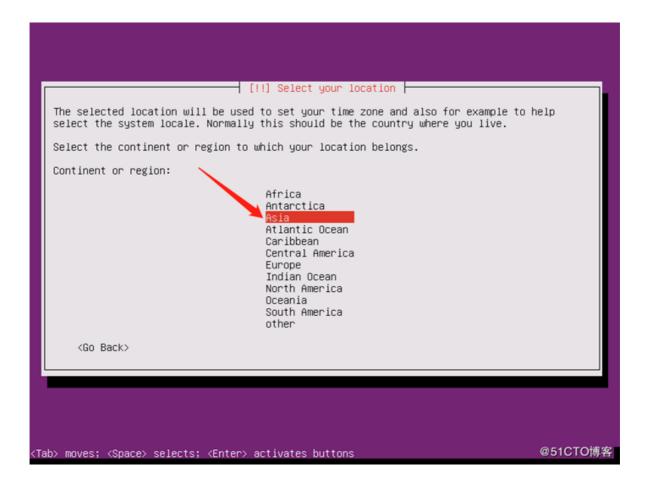


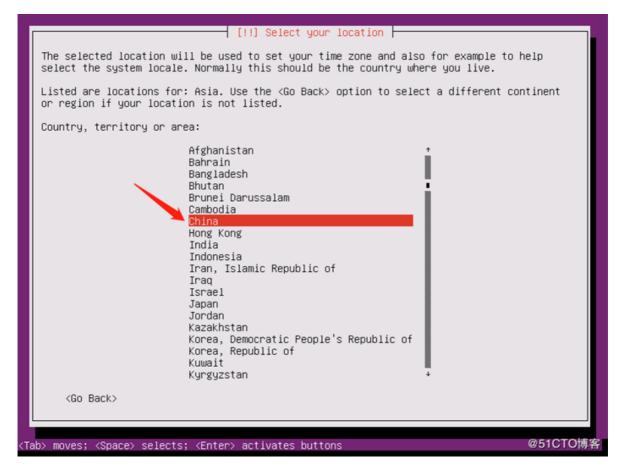
1.3 选择安装过程中使用的语言,也是系统安装完后使用的默认语言



1.4 选择地区,这里先选择最后一项other,然后回车再选择Asia,最后选择China





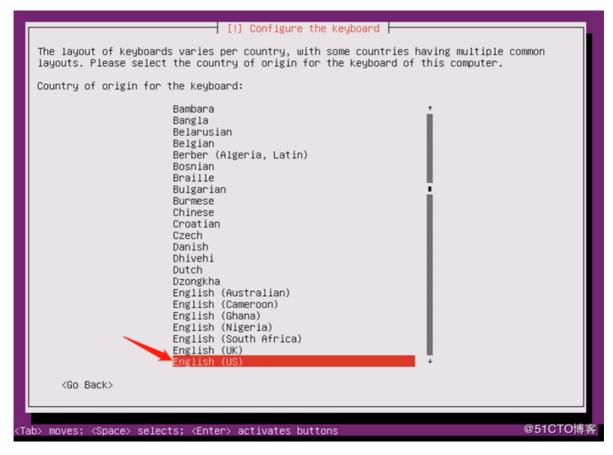


```
[!] Configure locales
   There is no locale defined for the combination of language and country you have selected.
   You can now select your preference from the locales available for the selected language.
   The locale that will be used is listed in the second column.
   Country to base default locale settings on:
                                 Antigua and Barbuda - en_AG
Australia - en_AU.UTF-8
Botswana - en_BW.UTF-8
Canada - en_CA.UTF-8
                                                         - en_HK.UTF-8
- en_IN
- en_IE.UTF-8
- en_IL
- en_NZ.UTF-8
                                 Hong Kong
                                  India
                                 Ireland
                                 Israel
New Zealand
                                                         - en_NG
- en_PH.UTF-8
                                 Nigeria
                                 Philippines
                                                         - en_SC.UTF-8
- en_SG.UTF-8
                                 Seychelles
                                 Singapore
                                 South Africa
                                                         - en_ZA.UTF-8
                                 United Kingdom
                                                         en_GB.UTF-8
                                                         - en_US.UTF-8
- en_ZM
                                  United States
                                 Zambia
                                                         - en_ZW.UTF-8
                                 Zimbabwe
        <Go Back>
                                                                                                   @51CTO博客
F1> for help; <Tab> moves; <Space> selects; <Enter> activates buttons
```

#### 1.6 键盘布局检查,选择NO



#### 1.7 选择美式键盘



#### 1.8 确认使用美式键盘

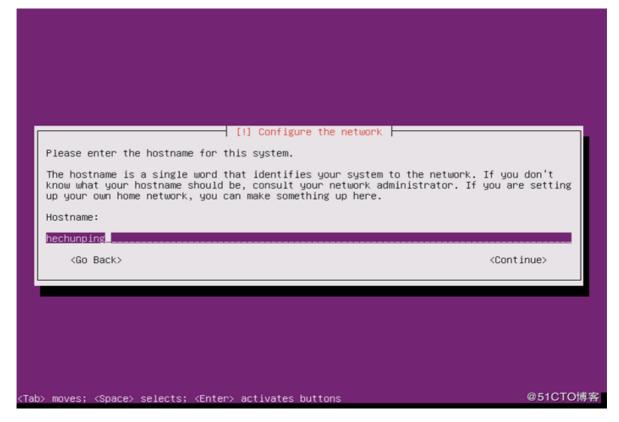
```
Please select the layout matching the keyboard for this machine.

Keyboard layout:

English (US)
English (US) - Cherokee
English (US) - English (Colemak)
English (US) - English (Dvorak)
English (US) - English (Dvorak, alt. intl.)
English (US) - English (Dvorak, intl., with dead keys)
English (US) - English (Dvorak, intl., with dead keys)
English (US) - English (Dvorak, intl., with dead keys)
English (US) - English (Dvorak, left-handed)
English (US) - English (Movrak, left-handed)
English (US) - English (US, alt. intl.)
English (US) - English (US, alt. intl.)
English (US) - English (US, alt. intl., with dead keys)
English (US) - English (US, intl., with dead keys)
English (US) - English (Norkman)
English (US) - English (Norkman, intl., with dead keys)
English (US) - English (Intl., with AltGr dead keys)
English (US) - English (intl., with AltGr dead keys)
English (US) - English (programmer Dvorak)
English (US) - English (the divide/multiply keys toggle the layout)
English (US) - Russian (US, phonetic)
English (US) - Serbo-Croatian (US)

<p
```

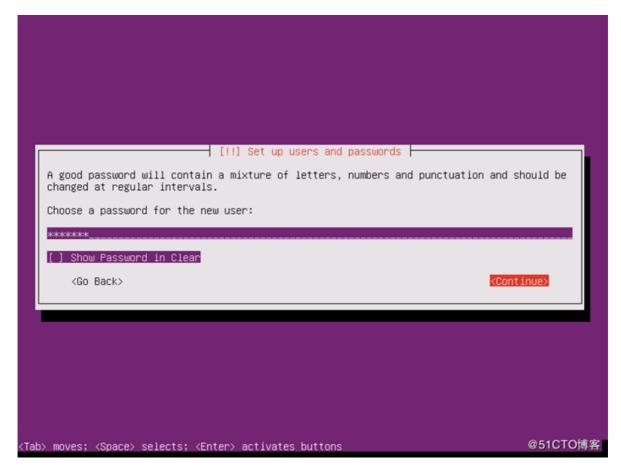
1.9 配置主机名



### 1.10 创建一个普通用户和为其设置密码

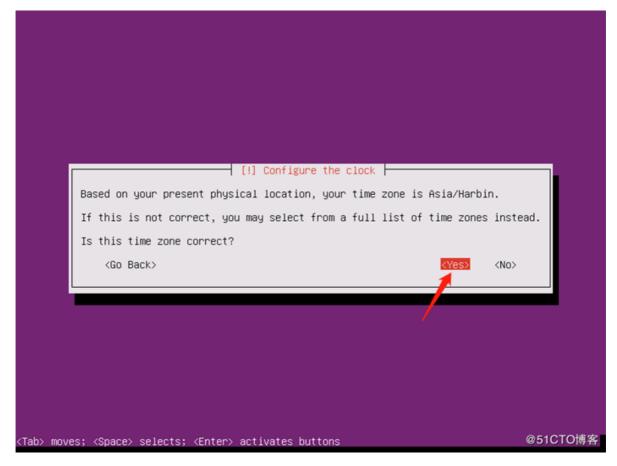




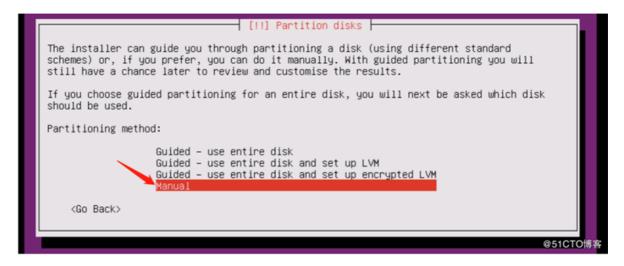








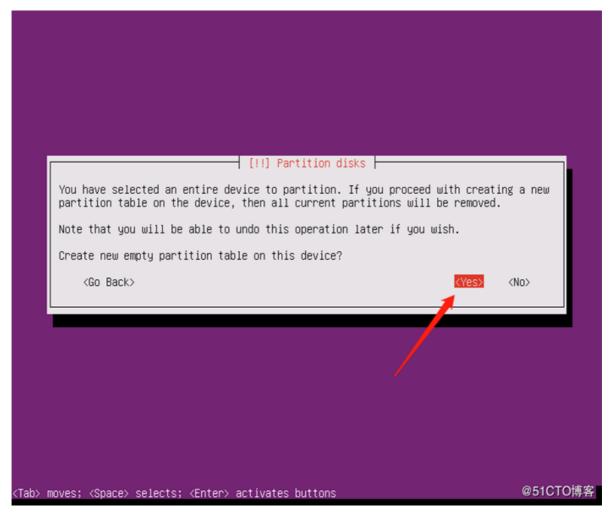
## 1.12 选择磁盘分区的方法,这里选手动分区



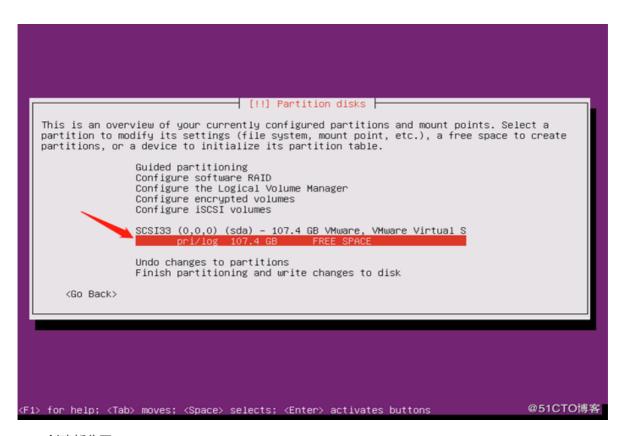
## 1.13 选择磁盘

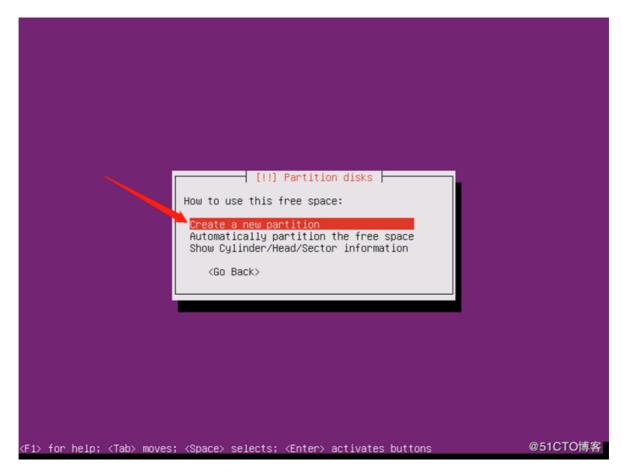
![img](file:///D:\OneDrive\技术文档\系统安装\ubuntu\ubuntu18.03\img/clip\_image045.png

## 1.14 确认对磁盘分区

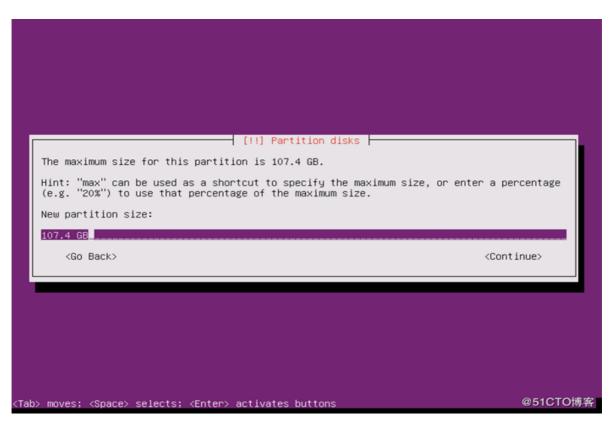


#### 1.15 对磁盘分区





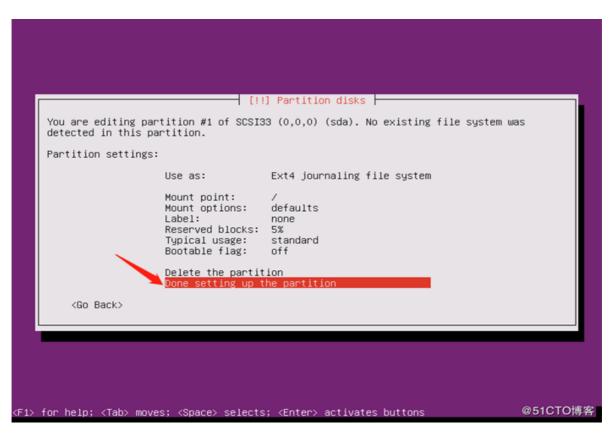
1.17 指定分区大小,这里将磁盘的全部大小划分给该分区



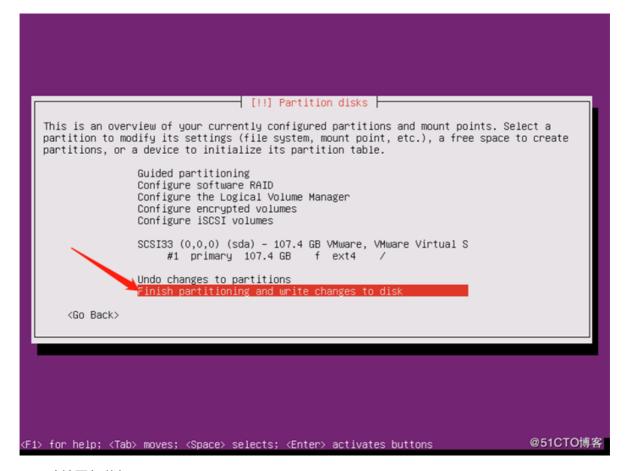
1.18 选择分区类型,这里选主分区



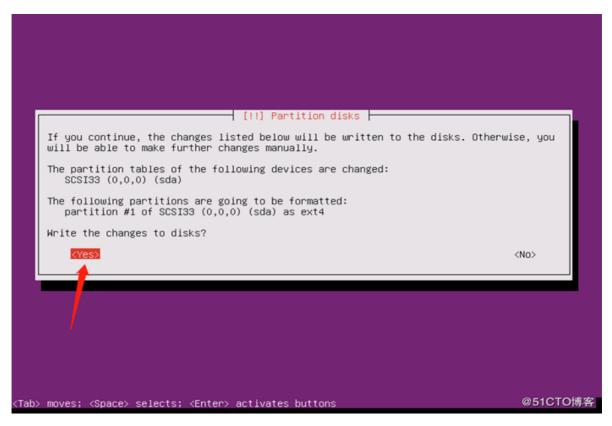
### 1.19 分区完成



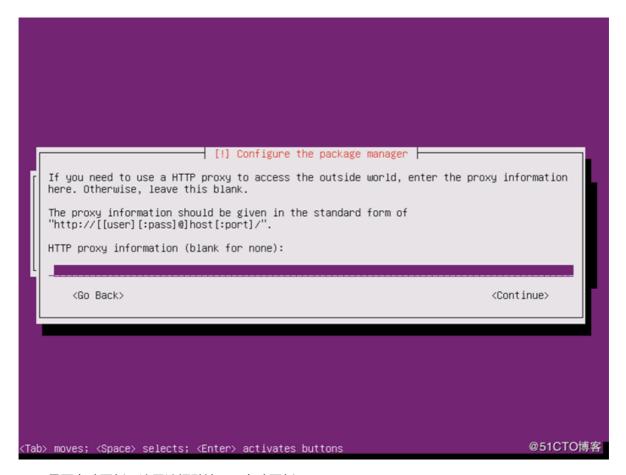
1.20 完成分区并写入数据



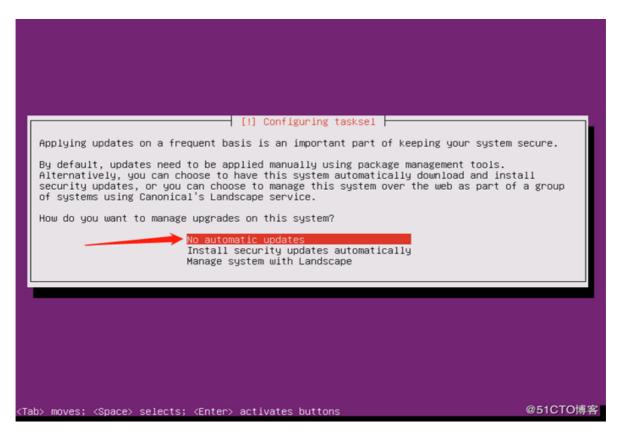
#### 1.21 确认写入磁盘



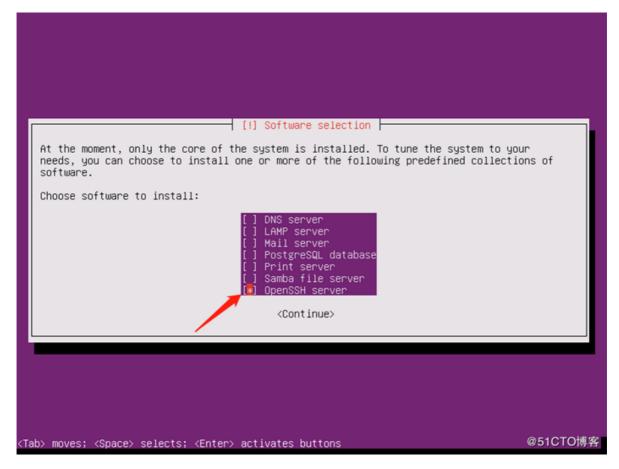
1.22 是否使用代理,这里不填



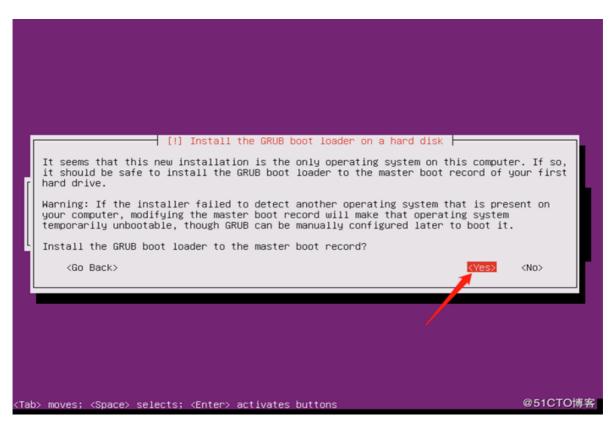
1.23 是否自动更新,这里选择默认,不自动更新



1.24 选择安装组件,选择对应需要安装的组件,然后按空格键,这里选择OpenSSH Server



## 1.25 将GRUB引导加载程序安装到主引导记录



1.26 完成安装, 确认重启服务器

```
Installation complete
Installation complete
Installation is complete, so it is time to boot into your new system. Make sure to remove the installation media (CD-ROM, floppies), so that you boot into the new system rather than restarting the installation.

〈Go Back〉

《Continue》
```

#### 1.27 登录系统

```
Ubuntu 18.04.3 LTS hechunping tty1
hechunping login: hechunping
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-55-generic x86_64)
 * Documentation: https://help.ubuntu.com
                    https://landscape.canonical.com
 * Management:
                    https://ubuntu.com/advantage
 * Support:
  System information as of Sat Dec 28 11:57:13 CST 2019
  System load: 0.31
Usage of /: 3.9% of 97.93GB
Memory usage: 10%
                                     Processes:
                                                              185
                                    Users logged in:
                                                              Θ
                                     IP address for ens33: 192.168.7.132
  Swap usage:
                \theta z
105 packages can be updated.
61 updates are security updates.
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 \mbox{\em command}\mbox{\em '}. See "man sudo_root" for details.
hechunping@hechunping:~$ _
                                                                                              @51CTO博客
```

# 4、查看或者配置网络

1. 前言

本教程将会演示如何设置Ubuntu18.04 Server版和Ubuntu20.04 Server版系统的静态固定IP地址。

2. 确认你要修改的网卡号

```
先确认你要修改的网卡号,假设你的服务器有多张网卡:
```

```
ubuntu2004:~$ ip addr
```

#### 我的服务器配置如下:

```
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00
inet 127.0.0.1/8 scope host lo
valid_lft forever preferred_lft forever
inet6 ::1/128 scope host
valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
link/ether 00:0c:29:f1:b5:e1 brd ff:ff:ff:ff:
inet 172.16.87.140/24 brd 172.16.87.255 scope global dynamic ens33
valid_lft 1500sec preferred_lft 1500sec
inet6 fe80::20c:29ff:fef1:b5e1/64 scope link
valid_lft forever preferred_lft forever
```

3. 默认的网卡配置文件

默认情况下,网络使用DHCP

使用命令cat /etc/netplan/50-cloud-init.yaml查看网络配置

```
network:
    ethernets:
    ens33:
        dhcp4: yes
        addresses: []

version: 2
```

4. ubuntu20.04设置静态IP

需要把配置文件修改为以下内容:

sudo vi /etc/netplan/50-cloud-init.yaml

假设IP地址修改为192.168.1.100,子网掩码24位即255.255.255.0,网关设置为192.168.1.1,DNS1: 223.5.5.5,DNS2: 223.6.6.6

5. 应用新配置

ubuntu1804:~\$ sudo netplan apply

使用ip addr检查新地址

ubuntu2004:~\$ ip addr

6. 测试网络连通性

ubuntu1804:~\$ ping qq.com