Debian DLBD镜像的下载

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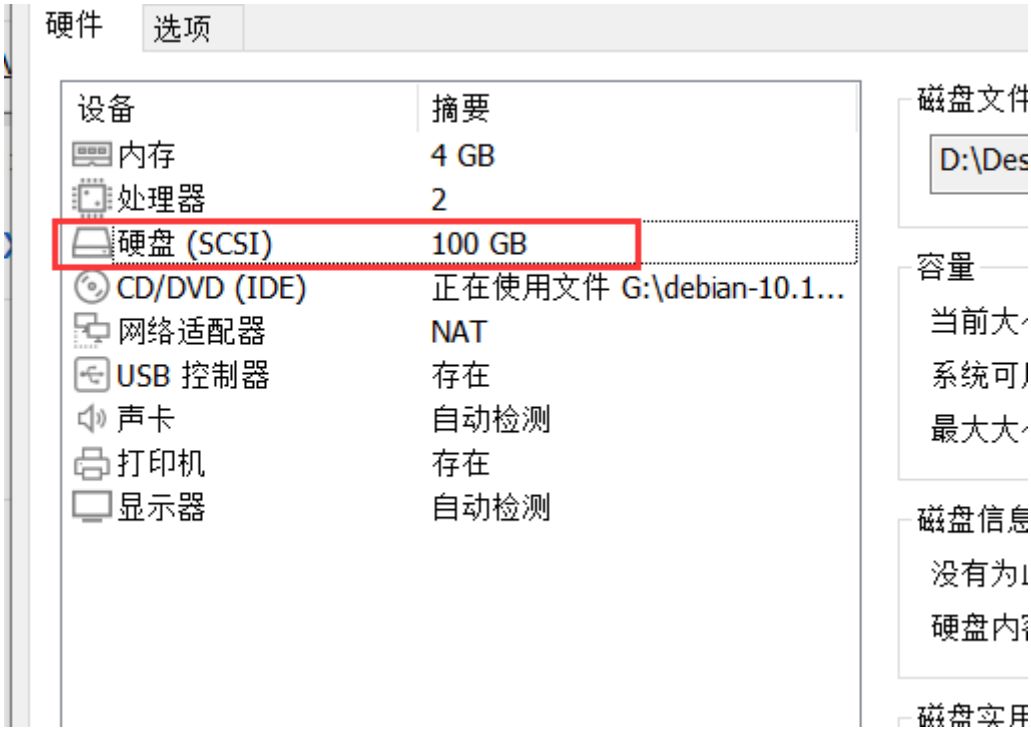
1：安装虚拟机
2：安装虚拟机
3：配置网络
4：配置apt源
5：镜像下载
扩展

1：安装虚拟机

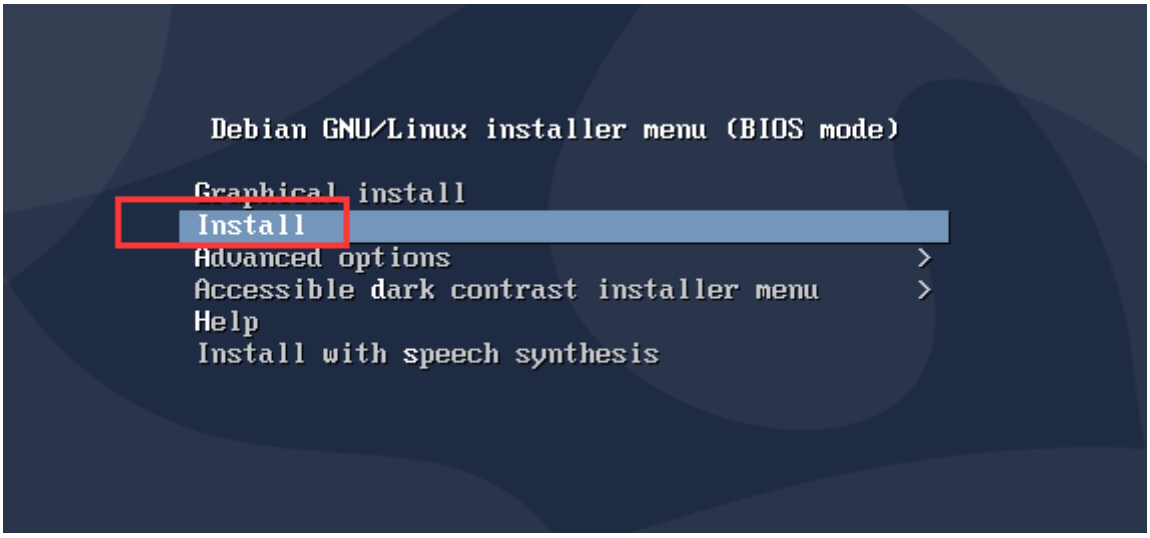
首先安装一个debian任意版本的虚拟机，并给至少80G以上的硬盘空间，建议100G，镜像大小接近50G，虚拟机需要20G左右，为避免其他各种原因，建议新装一个虚拟机来下载镜像



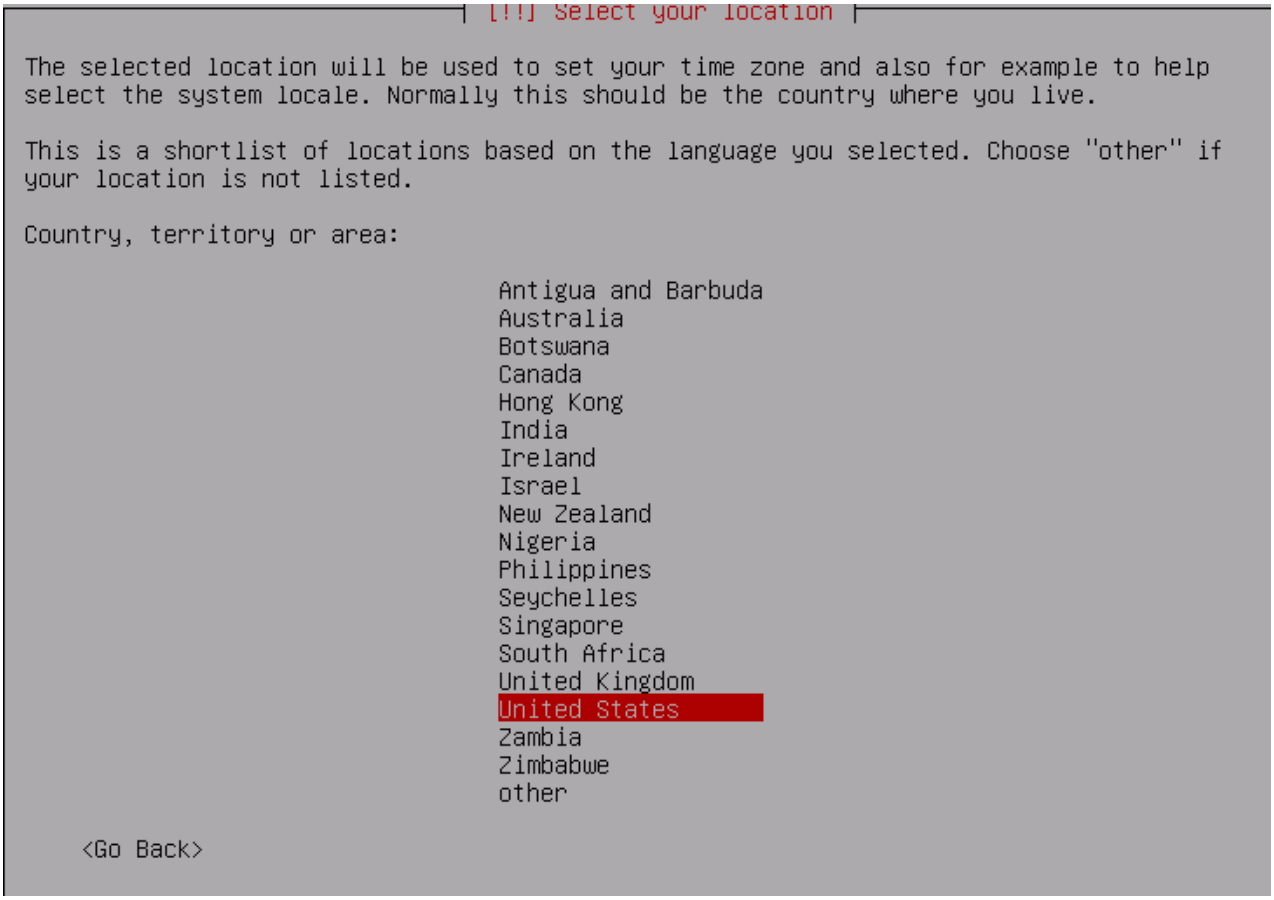
2：安装虚拟机

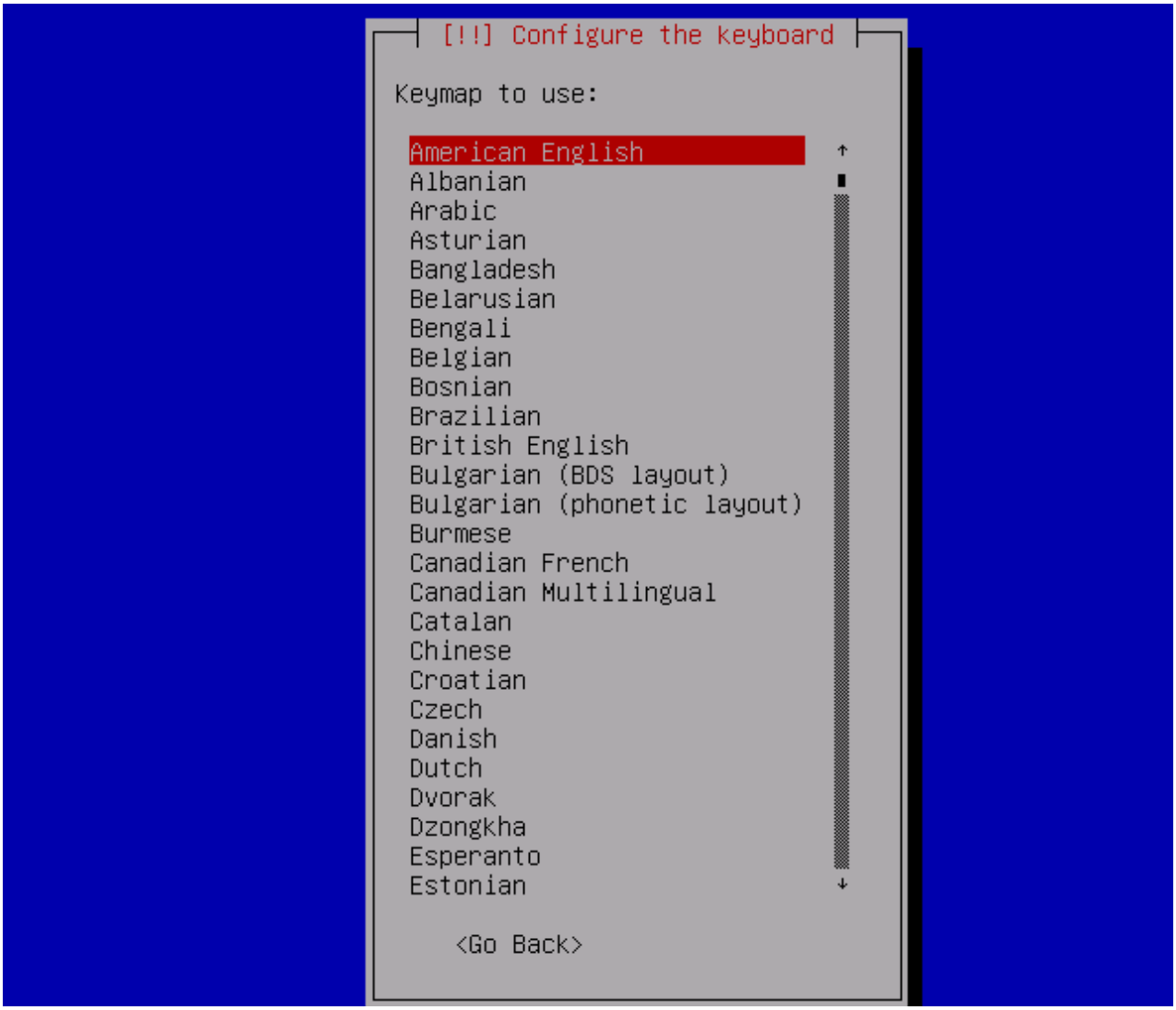
虚拟机的安装步骤与普通虚拟机安装一致即可

选择第二个安装，也可以选择第一个图形化安装



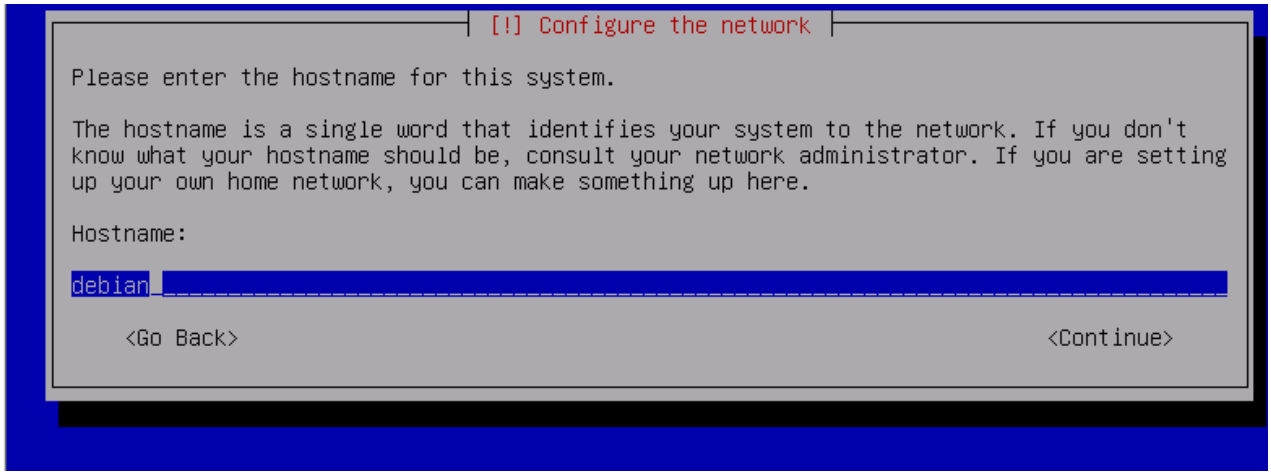
以下部分可以根据自己需求选择，我这里直接默认



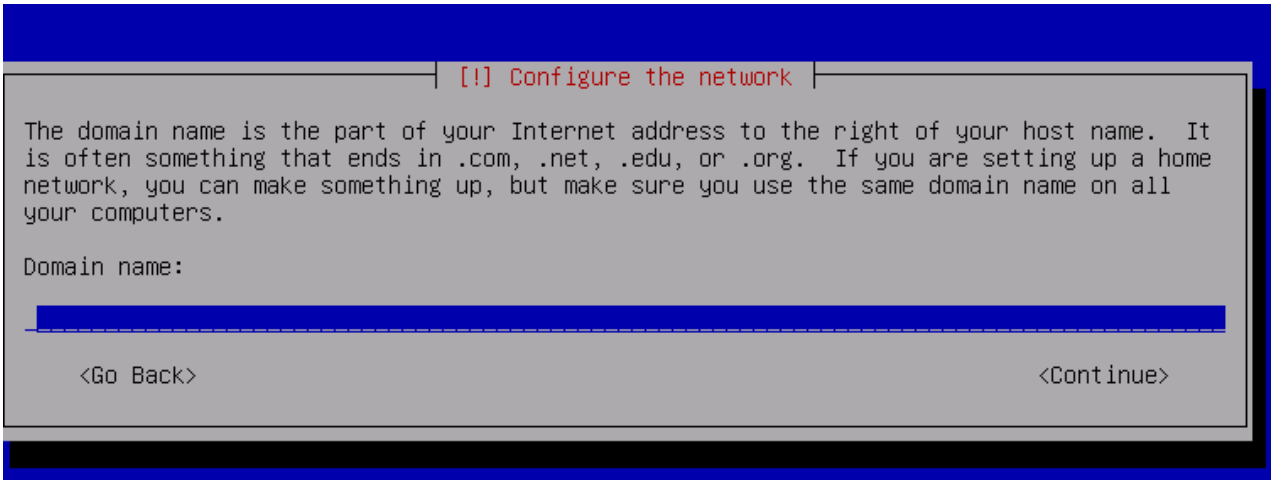


后续会自动DHCP获取网络，如果获取失败，可以选择不连接网络，安装完成后在进行配置

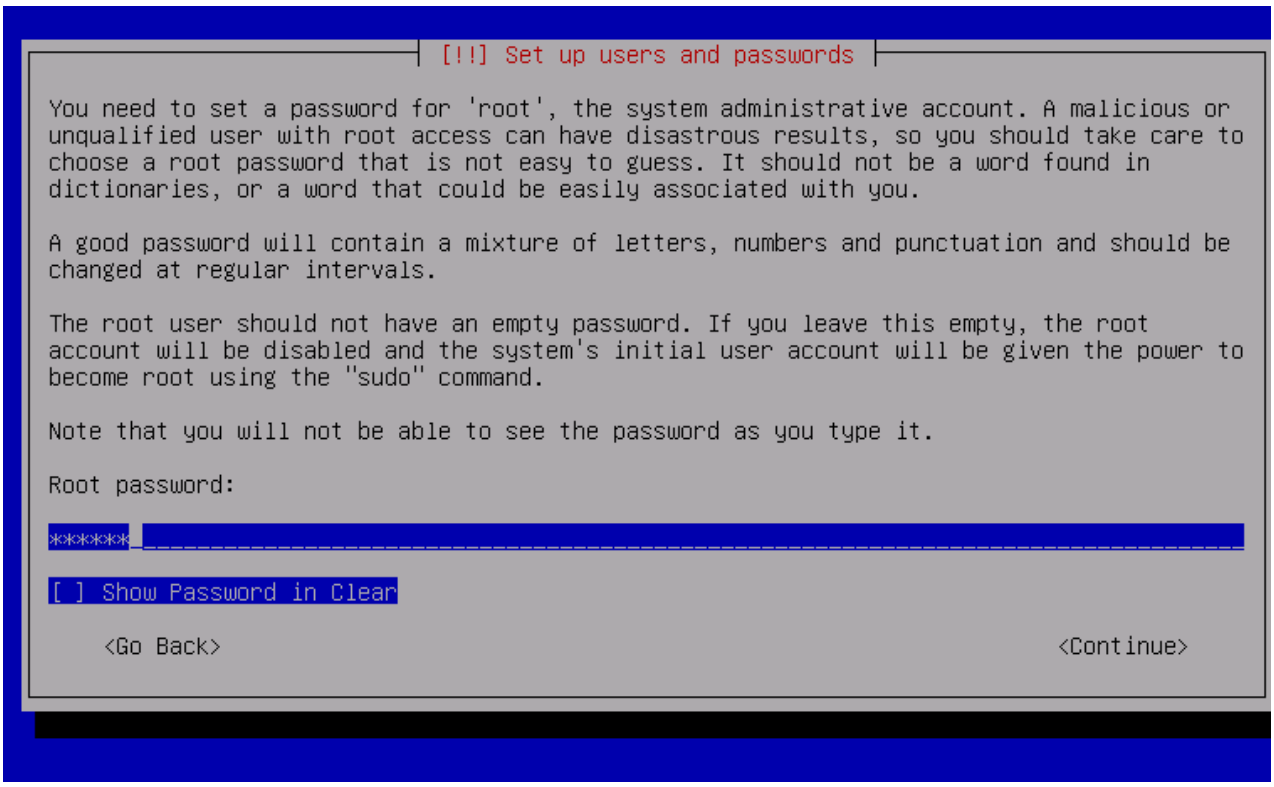
主机名



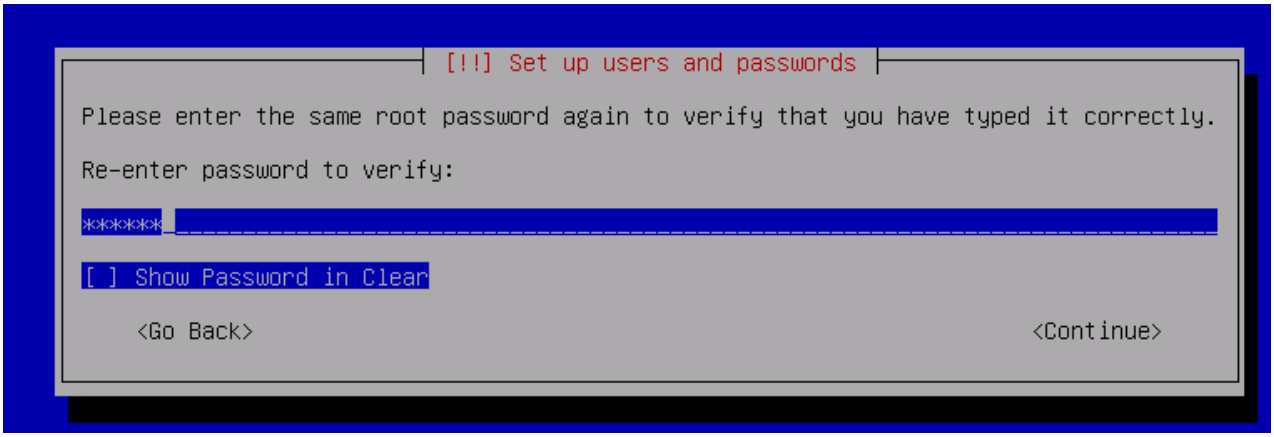
域名



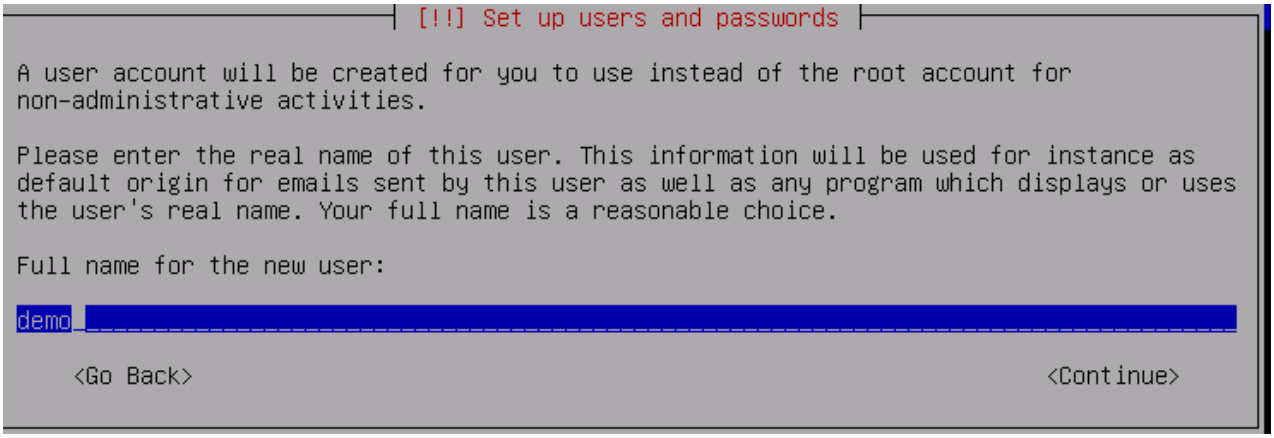
root密码



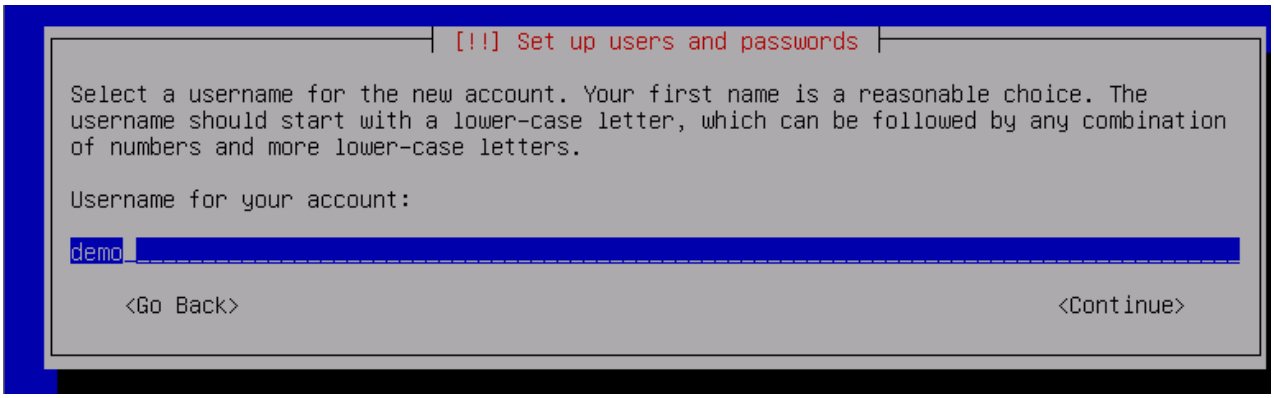
确认root密码



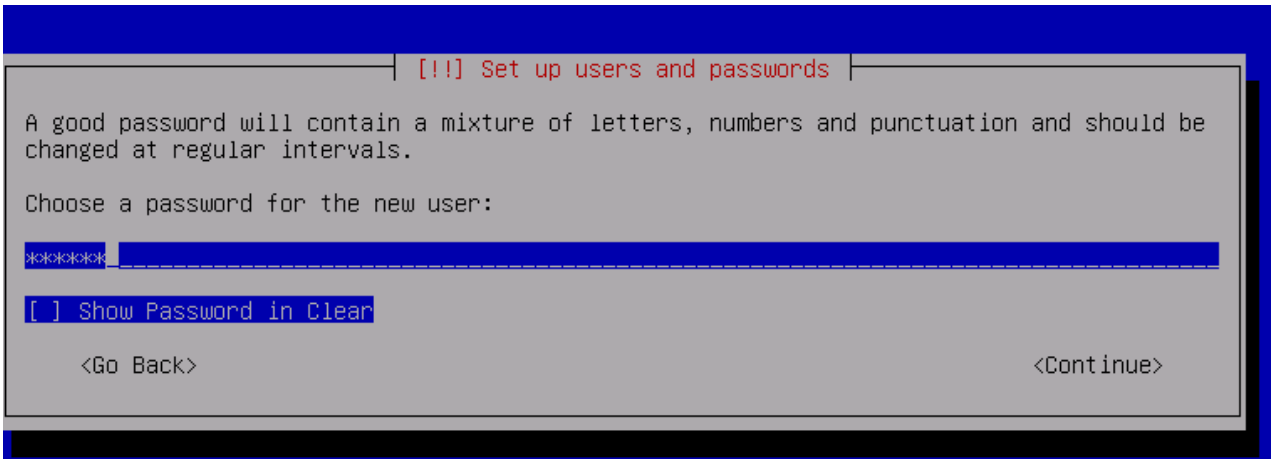
创建一个新用户



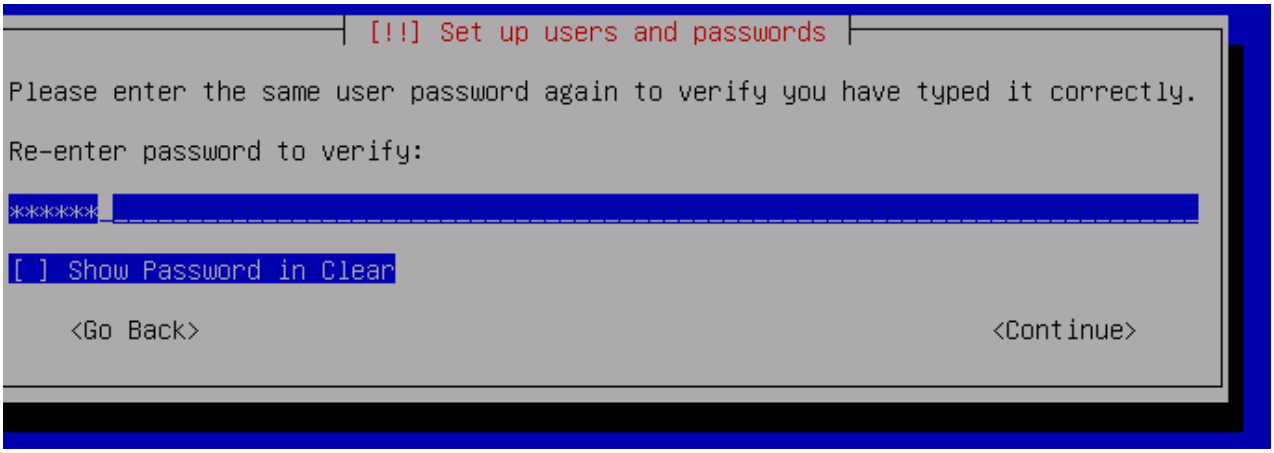
默认即可



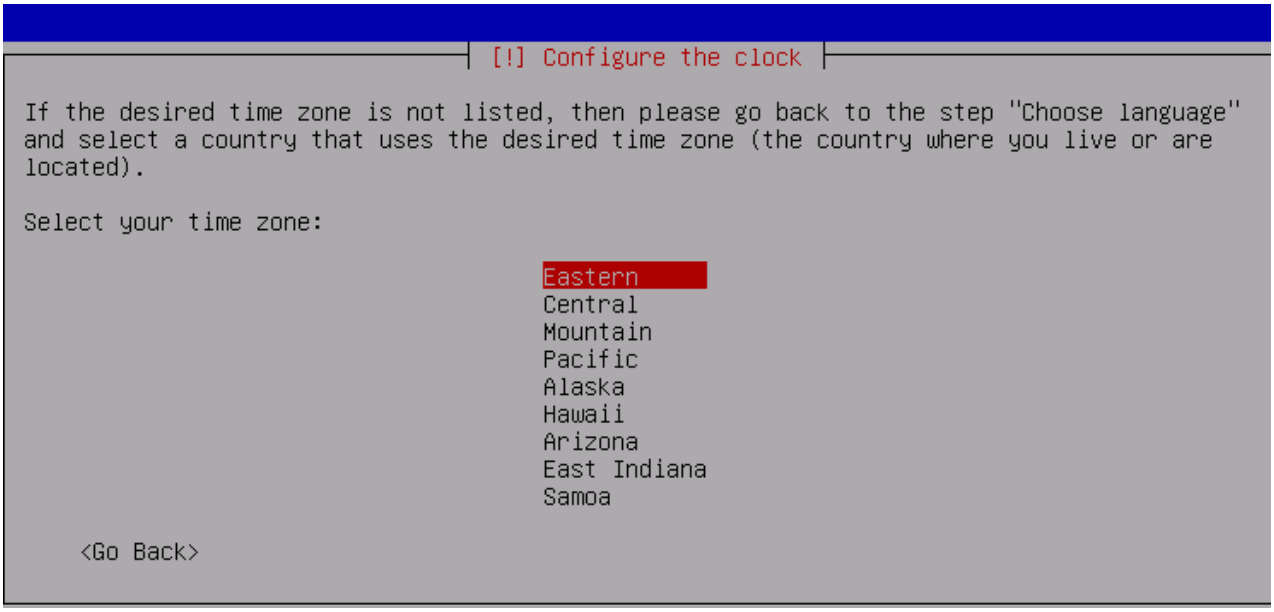
新用户密码



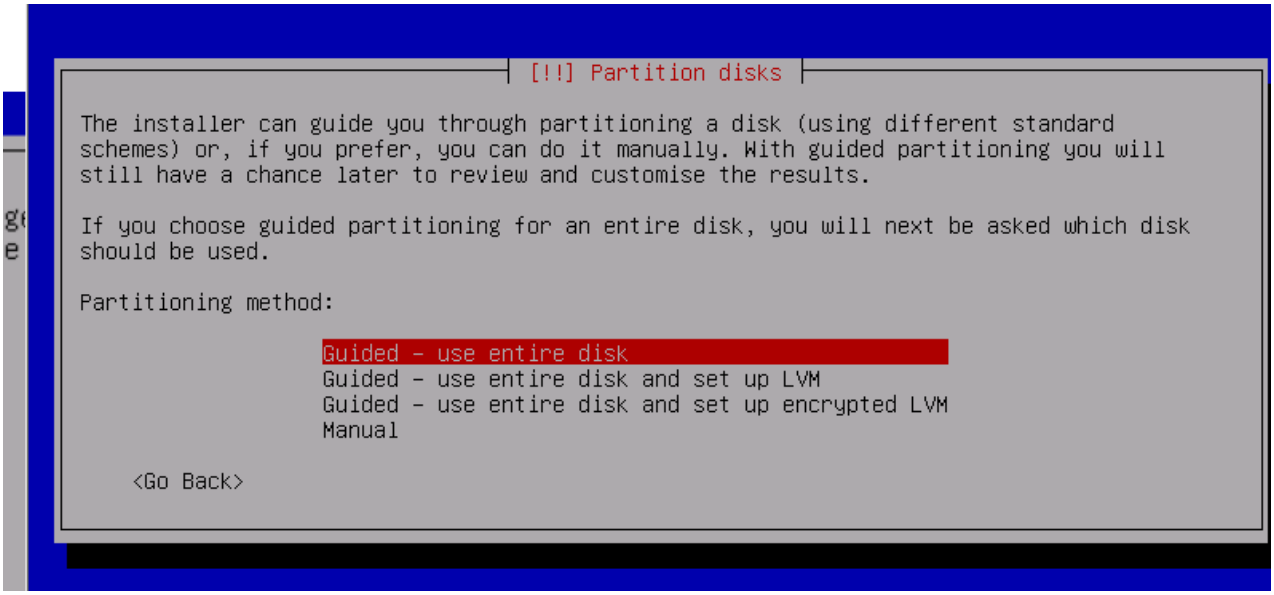
确认新用户密码


[!!] Set up users and passwords
Please enter the same user password again to verify you have typed it correctly.
Re-enter password to verify:
******
[ ] Show Password in Clear
<Go Back>
<Continue>

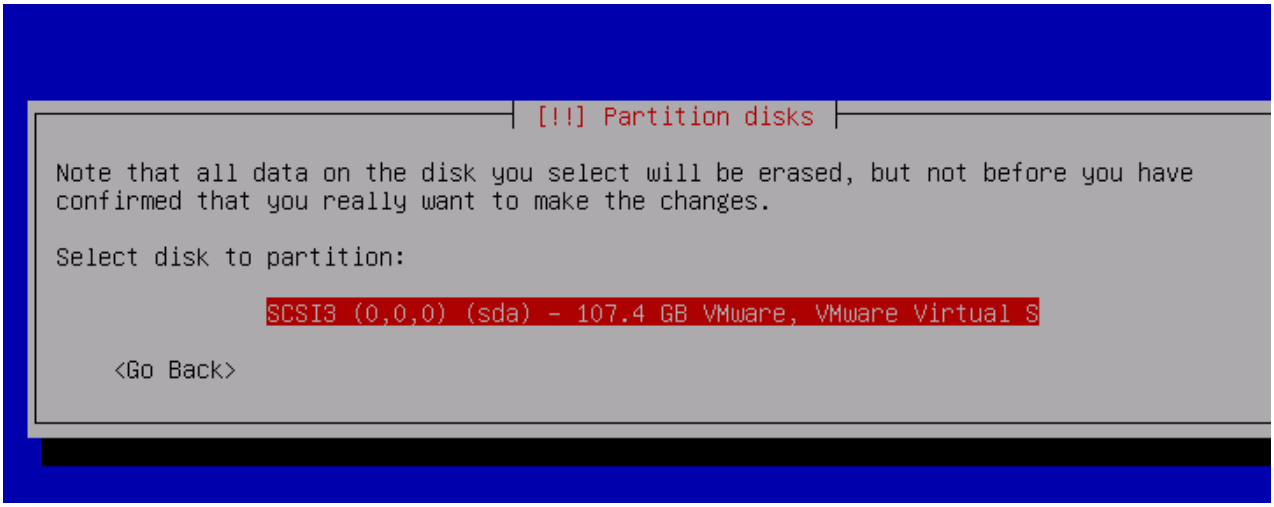
默认


[!] Configure the clock
If the desired time zone is not listed, then please go back to the step "Choose language"
and select a country that uses the desired time zone (the country where you live or are
located).
Select your time zone:
Eastern
Central
Mountain
Pacific
Alaska
Hawaii
Arizona
East Indiana
Samoa
<Go Back>

选择使用磁盘

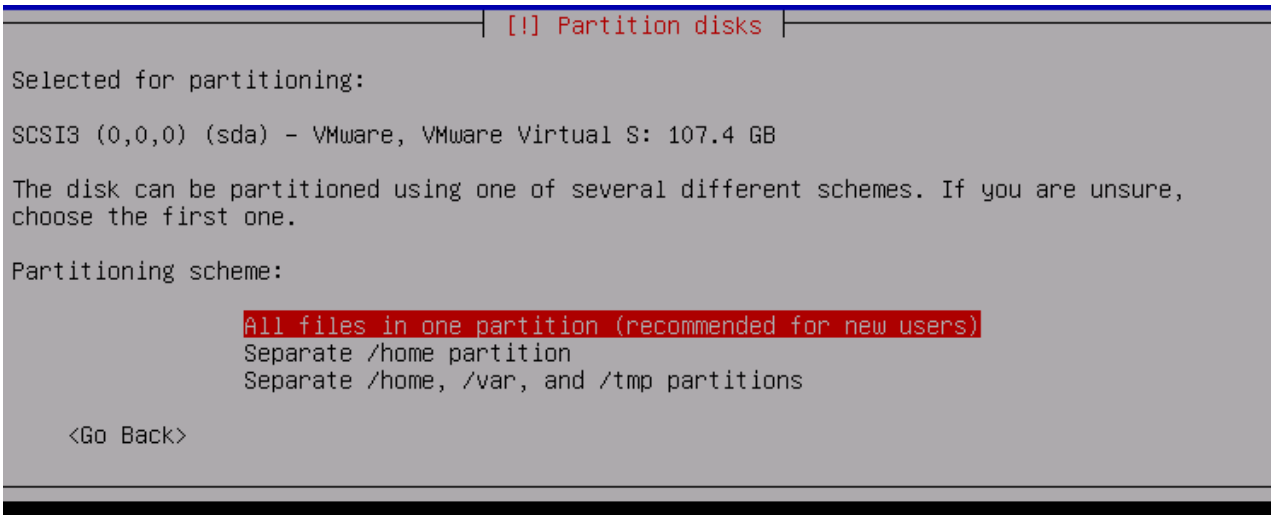

[!!] Partition disks
The installer can guide you through partitioning a disk (using different standard
schemes) or, if you prefer, you can do it manually. With guided partitioning you will
still have a chance later to review and customise the results.
If you choose guided partitioning for an entire disk, you will next be asked which disk
should be used.
Partitioning method:
Guided - use entire disk
Guided - use entire disk and set up LVM
Guided - use entire disk and set up encrypted LVM
Manual
<Go Back>

默认

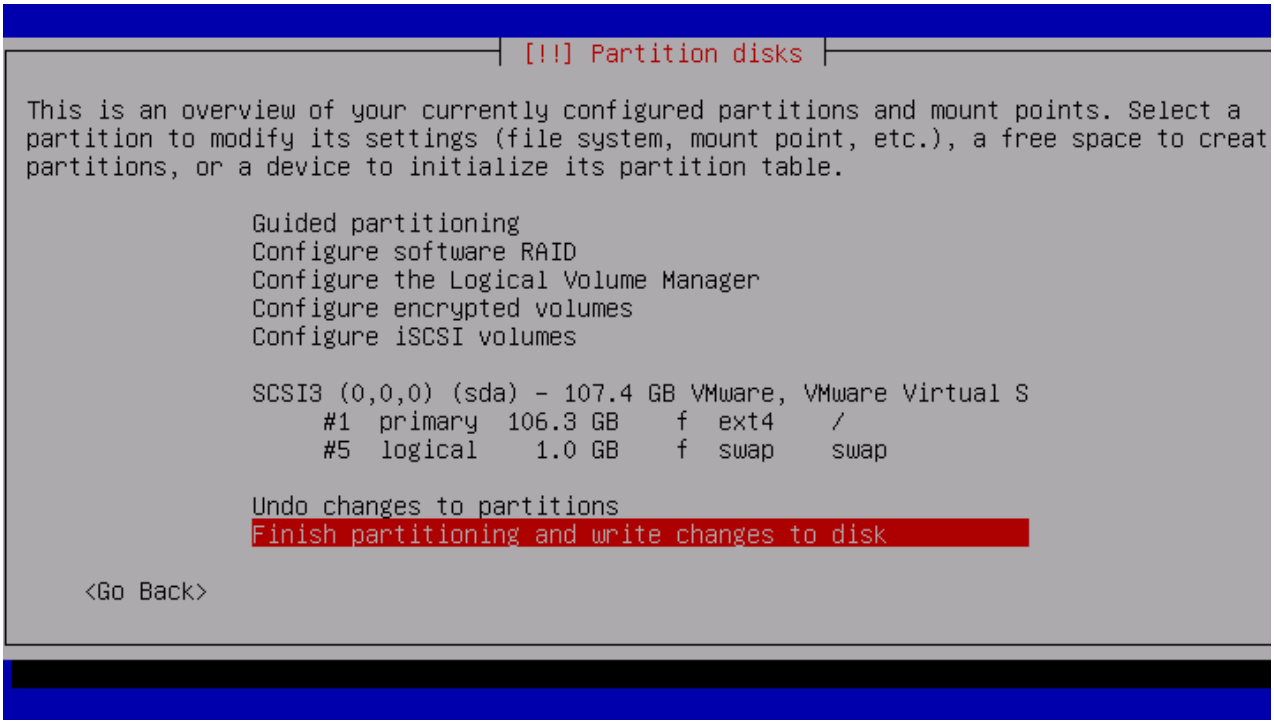


、

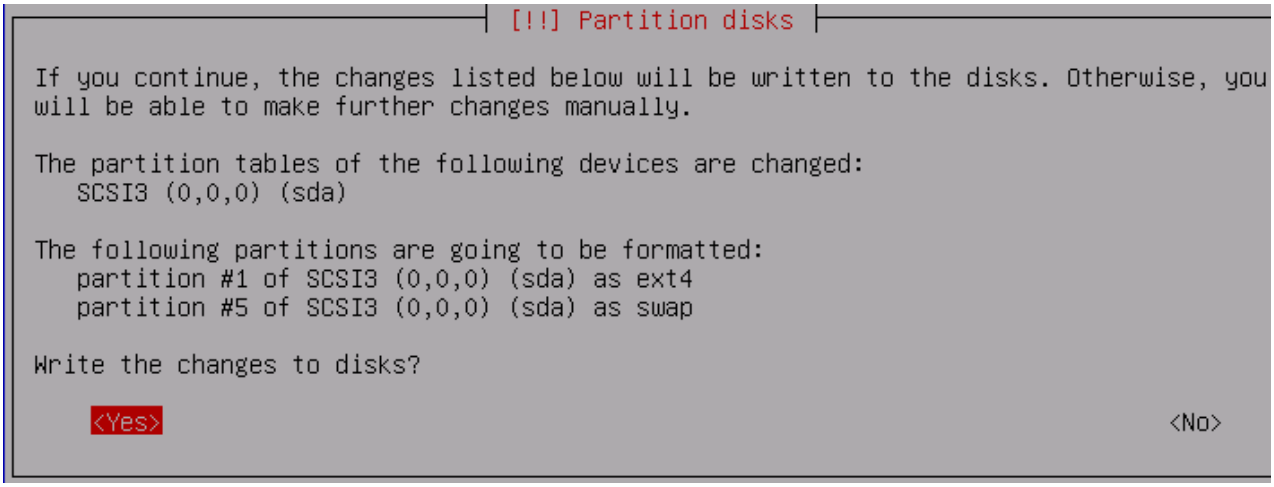
选择一个分区



接受更改

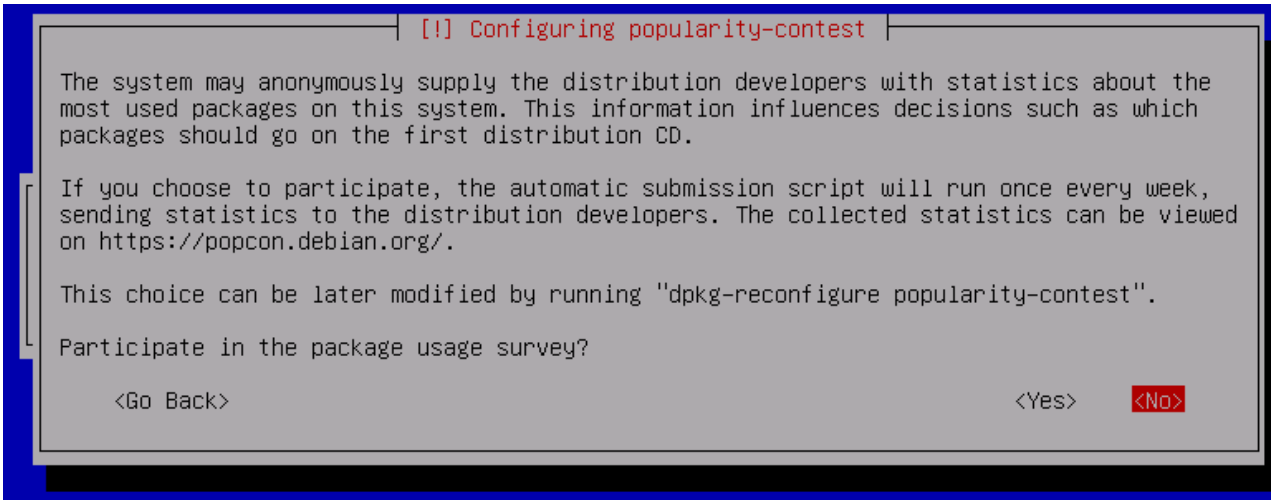


确定

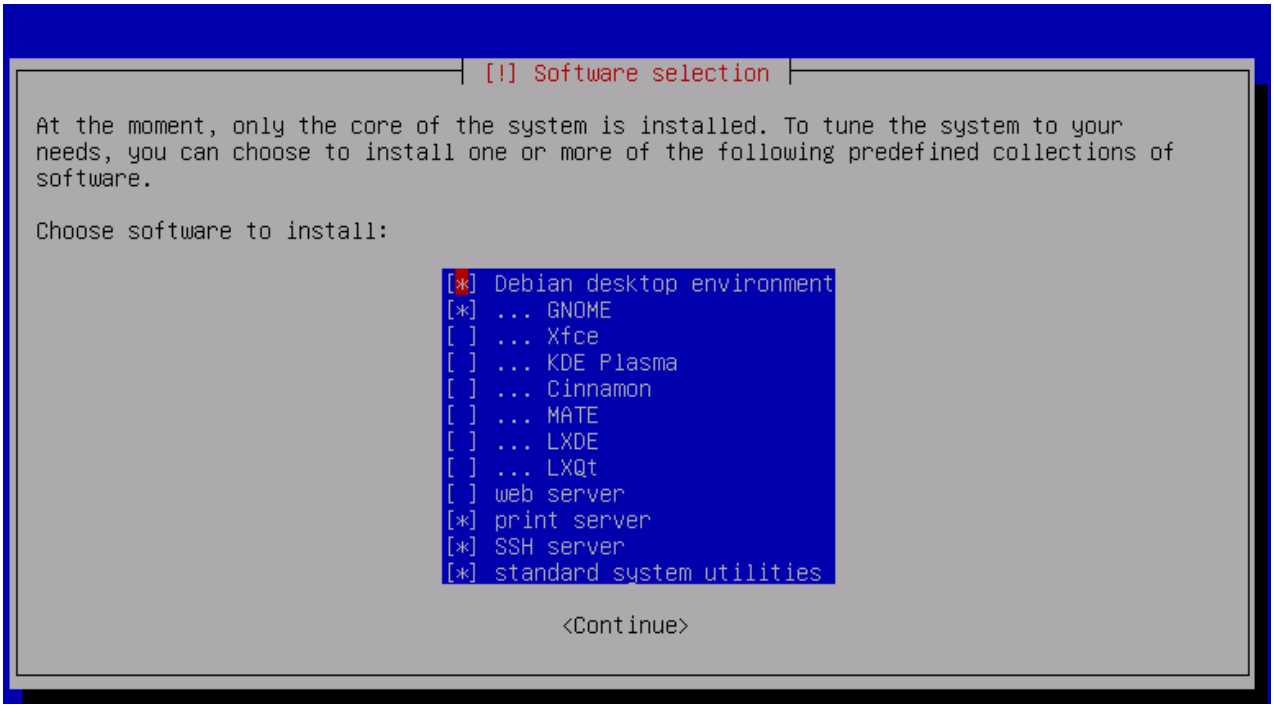


等待系统进行安装

不需要网络镜像源

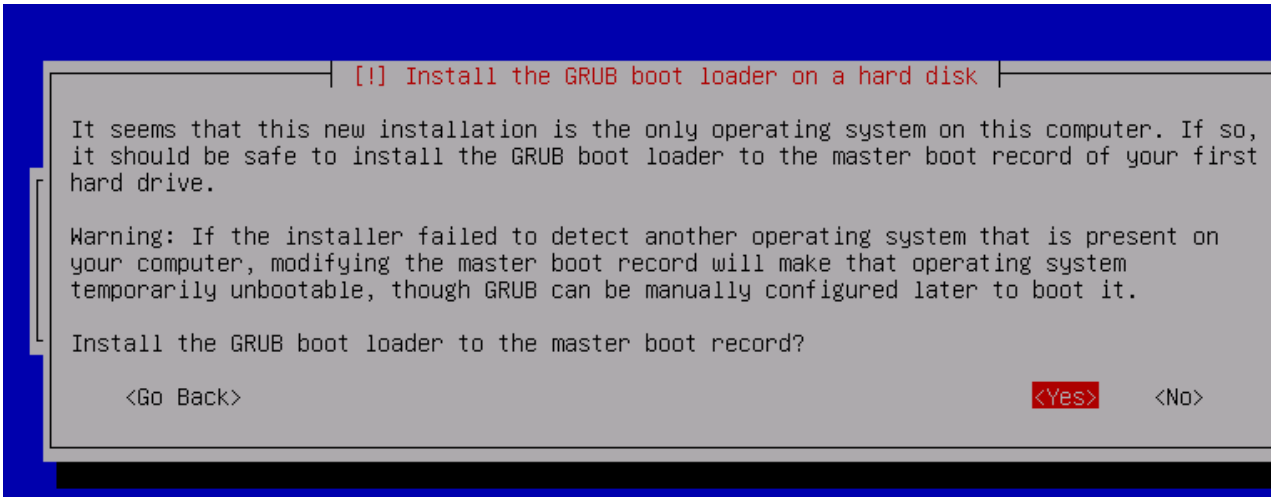


勾选桌面环境，桌面，ssh服务等（按空格选择取消）

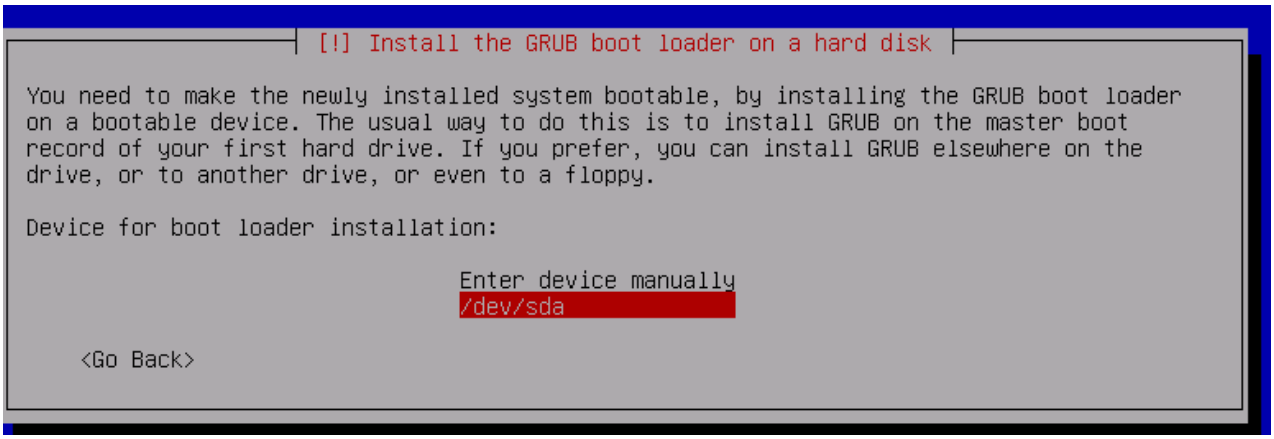


等待安装

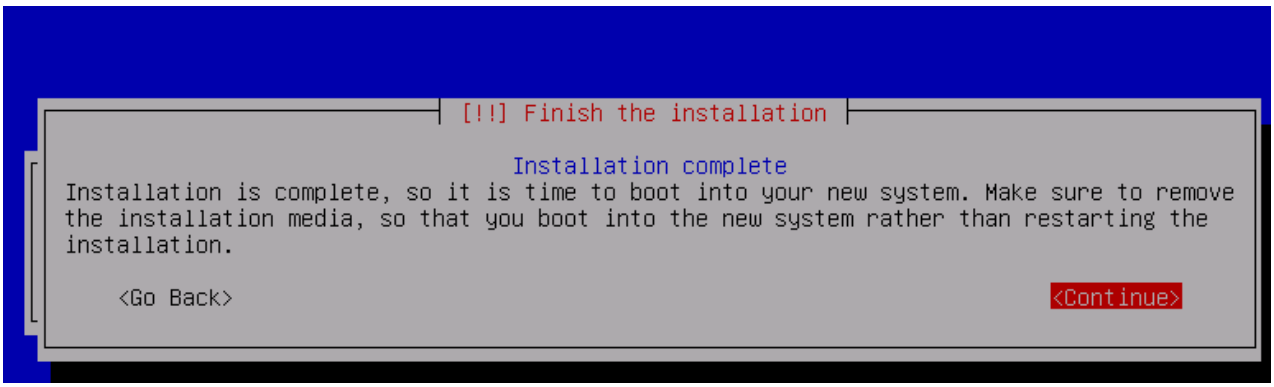
选择yes



选择磁盘

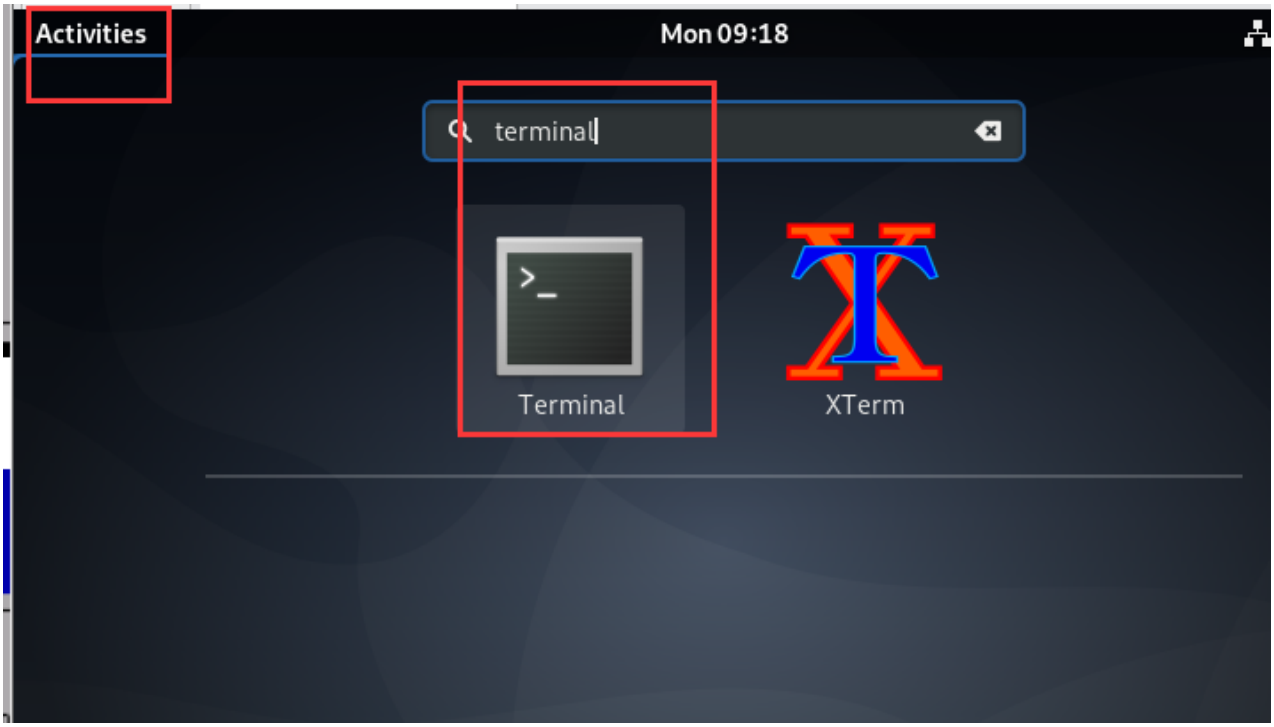


重启



重启后进入图形界面，默认不能以root用户登录，需要以普通身份用户登录

按键盘上的徽标键或者点击active，搜索terminal并选择进入



连接到光盘。默认即可安装软件，可以按照open-vmtools来协同物理机与虚拟机剪切板

3：配置网络

切换用户与软件安装

```
demo@debian:~$ su - root
Password:
root@debian:~#
root@debian:~# apt install open-vm-tools  //按安装vmtools工具
root@debian:~# apt install bash*  //如果命令无法补全安装，安装完成后重启
root@debian:~# apt install vim -y  //安装vim编辑器
```

配置网络

```
root@debian:~# ip addr  #查看网卡名称
```

查看网卡名称

```
root@debian:~# ip addr
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 00:00:00:00:00:00
    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 pfifo_fast state UP group de
fault qlen 1000
    link/ether 00:0c:29:41:1a:6f brd ff:ff:ff:ff:ff:ff
    inet 192.168.196.153/24 brd 192.168.196.255 scope global dynamic noprefixroute ens3
3
       valid_lft 1685sec preferred_lft 1685sec
    inet6 fe80::20c:29ff:fe41:1a6f/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
root@debian:~#
```

修改网络

```
root@debian:~# vim /etc/network/interfaces
auto ens33
iface ens33 inet static
address 192.168.196.152/24
gateway 192.168.196.2
dns-nameserver 223.5.5.5
root@debian:~# ping baidu.com -c 2  //ping测试，确保能通
```

4：配置apt源

进入阿里开源镜像站，根据对应的debian版本选择源

debian10源如下

```
deb https://mirrors.aliyun.com/debian/ buster main non-free contrib
deb-src https://mirrors.aliyun.com/debian/ buster main non-free contrib
deb https://mirrors.aliyun.com/debian-security buster/updates main
deb-src https://mirrors.aliyun.com/debian-security buster/updates main
deb https://mirrors.aliyun.com/debian/ buster-updates main non-free contrib
deb-src https://mirrors.aliyun.com/debian/ buster-updates main non-free contrib
deb https://mirrors.aliyun.com/debian/ buster-backports main non-free contrib
deb-src https://mirrors.aliyun.com/debian/ buster-backports main non-free contrib
```

修改yum源

```
root@debian:~# vim /etc/apt/sources.list  //注销掉之前所有的内容
添加上面阿里的镜像源进去
root@debian:~# apt update  //更新源
```

将阿里的源放在最前

5：镜像下载

安装镜像下载工具

```
root@debian:~# apt install jigdo-file -y
```

进入阿里下debian的镜像仓库，进入**debian镜像源**

找到我们所需要的文件，右键复制连接**debian-11.5.0-amd64-DLBD-1.jigdo**

File Name	File Size	Date
Parent directory/	-	-
HEADER.html	3.9 KB	2022-0
SHA256SUMS	596.0 B	2022-0
SHA256SUMS.sign	833.0 B	2022-0
SHA512SUMS	980.0 B	2022-0
SHA512SUMS.sign	833.0 B	2022-0
debian-11.5.0-amd64-DLBD-1.jigdo	853.3 KB	2022-0
debian-11.5.0-amd64-DLBD-1.template	58.6 MB	2022-0
debian-11.5.0-amd64-DLBD-2.jigdo	889.4 KB	2022-0
debian-11.5.0-amd64-DLBD-2.template	25.3 MB	2022-0

运行程序

```
root@debian:~# jigdo-lite    //运行程序

Jigsaw Download "lite"
Copyright (C) 2001-2005  |  jigdo@
Richard Atterer          |  atterer.org
Getting mirror information from /etc/apt/sources.list

-----------------------------------------------------------------
To resume a half-finished download, enter name of .jigdo file.
To start a new download, enter URL of .jigdo file.
You can also enter several URLs/filenames, separated with spaces,
or enumerate in {}, e.g. `http://server/cd-{1_NONUS,2,3}.jigdo'
jigdo: https://mirrors.aliyun.com/debian-cd/current/amd64/jigdo-dlbd/debian-11.5.0-
amd64-DLBD-1.jigdo?spm=a2c6h.25603864.0.0.2344718fawq4DO   //粘贴我们复制的debian-11.5.0-
amd64-DLBD-1.jigdo地址回车

Alternatively, just press enter if you want to start downloading
the remaining files.
Files to scan:    //直接回车

States', or a server name like `sunsite'.
Debian mirror [https://mirrors.aliyun.com/debian/]:    //镜像源地址，如果不是阿里的就复制
阿里的镜像源地址粘贴回车即可
```

后续则等待自动下载整合即可，中途不能断网，关机，挂起等操作。容易出现问题

下载的时间比较长，具体根据当前网速来确定

扩展

允许root用户桌面环境直接登录

```
root@debian:~# vim /etc/pam.d/gdm-password
#%PAM-1.0
auth    requisite       pam_nologin.so
auth    required    pam_succeed_if.so user = root quiet_success   //去掉=之前的!即可，重启生效
```

允许远程ssh以root身份登录

```
root@debian:~# vim /etc/ssh/sshd_config
#LoginGraceTime 2m
#PermitRootLogin prohibit-password   //去掉#号并将prohibit-password修改为yes
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10
**********************************************************************
修改后

#LoginGraceTime 2m
PermitRootLogin yes  //修改后
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10
root@debian:~# systemctl restart ssh  //重启ssh服务即可
```