采购物理机

建议为1块ssd系统盘, 1块ssd数据盘, 1块hdd数据盘

塔式服务器

小型团队时选择

例如: https://item.m.jd.com/product/10068034355466.html?utm_user=plusmember&gx=RnAoG-fE
https://item.n.jd.com/product/10068034355466.html?utm_user=plusmember&gx=RnAoG-fE
https://item.n.jd.com/product/10068034355466.html?utm_user=plusmember&gx=RnAoG-fE
https://item.n.jd.com/product/10068034355466.html?utm_user=plusmember&gx=RnAoG-fE
<a href="https://item.n.jd.com/product/10068036.html]
<a href="https://item.n.jd.co

联想的比较便宜,但性能会稍微弱一点

采购一个大于8G的U盘作为linux系统启动盘

机架式服务器

中大型团队时选择

规格建议为64c256g

ups、交换机、路由器

网络环境

小型团队时没有交换机,物理机需要通过网线连接路由器,人员连接路由器上的wifi

物理机通过路由器连接到外网

物理机可以通过natapp被外网连接

安装操作系统

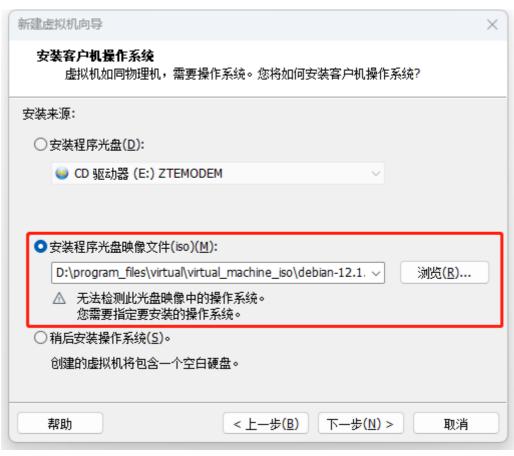
经典的选择centos7

新的稳定的选debian, 例如debian12

虚拟机模拟

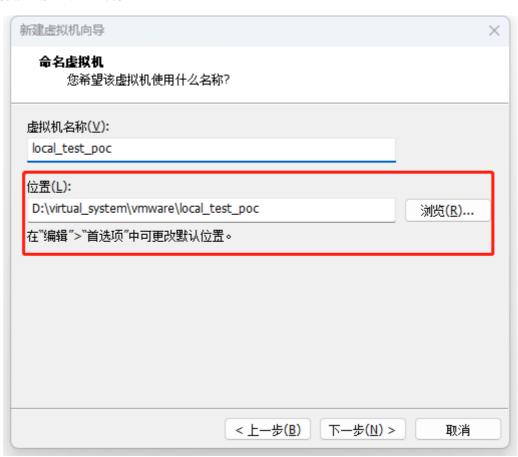
右键 > 新建虚拟机(N)

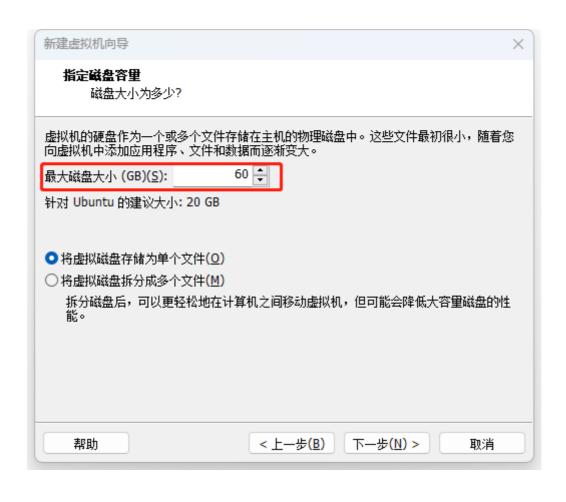






根据实际情况修改本地文件位置













为vmware的虚拟机提升性能:编辑虚拟机设置 > 选项 > 高级 > 为启用了Hyper-V的主机禁用侧通道缓解 (S)

准备好系统

提前下载好 debian 12 dvd iso

https://cdimage.debian.org/debian-cd/current/amd64/iso-cd/

制作Linux u盘启动器

需要一个大于8G的U盘

使用软件 rufus

BIOS设置

开机自启

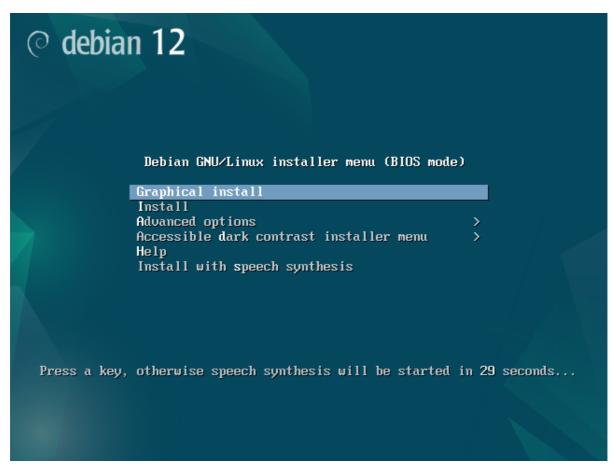
设置散热模式为性能模式

系统盘尽可能使用raid1,数据库裸磁盘即可

安装操作系统

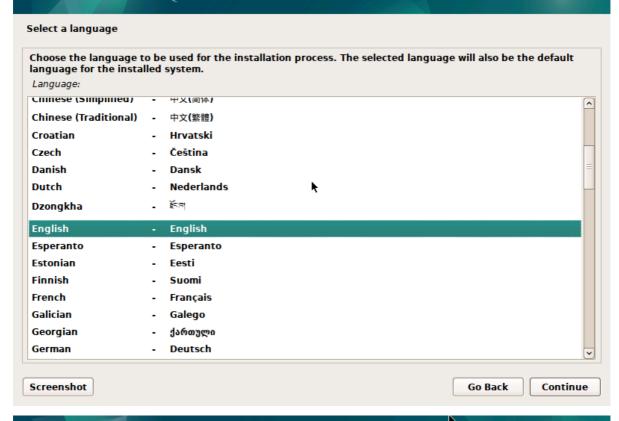
安装debian12操作系统

其中的eufi选项选择yes



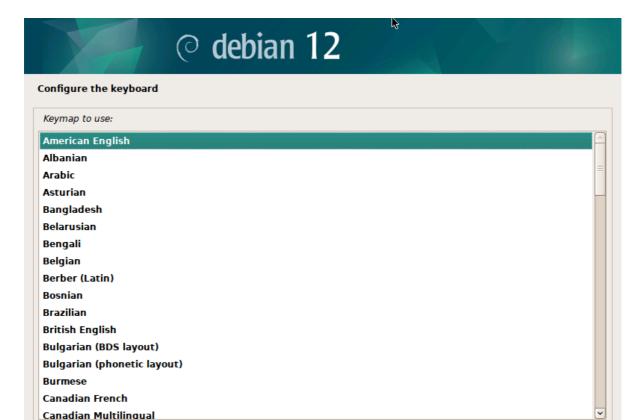
回车

○ debian 12



© debian 12

Select your location The selected location will be used to set your time zone and also for example to help select the system locale. Normally this should be the country where you live. This is a shortlist of locations based on the language you selected. Choose "other" if your location is not listed. Country, territory or area: India Ireland Israel **New Zealand** Nigeria **Philippines** Seychelles Singapore **South Africa United Kingdom United States** Zambia Zimbabwe other Screenshot Go Back Continue



Screenshot

Configure the network

Go Back

Continue

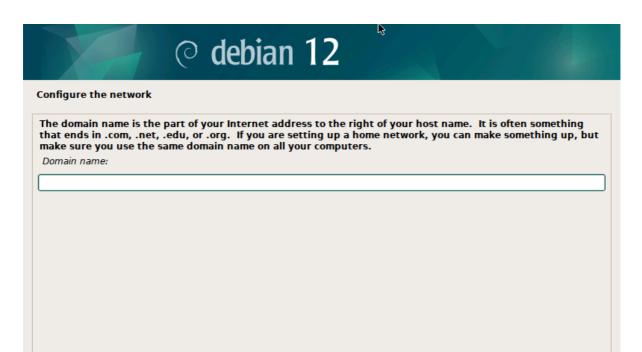
© debian 12

Please enter the hostname for this system. The hostname is a single word that identifies your system to the network. If you don't know what your hostname should be, consult your network administrator. If you are setting up your own home network, you can make something up here. Hostname: debian

Screenshot

Go Back

Continue



Screenshot

Go Back

Continue

修改root账号的密码

O debian 12 Set up users and passwords You need to set a password for 'root', the system administrative account. A malicious or unqualified user with root access can have disastrous results, so you should take care to choose a root password that is not easy to guess. It should not be a word found in dictionaries, or a word that could be easily associated with you. A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals. The root user should not have an empty password. If you leave this empty, the root account will be disabled and the system's initial user account will be given the power to become root using the "sudo" command. Note that you will not be able to see the password as you type it. Root password: •••••• ☐ Show Password in Clear Please enter the same root password again to verify that you have typed it correctly. Re-enter password to verify: ••••••• ☐ Show Password in Clear Screenshot Go Back Continue

⊘ debian 12

Set up users and passwords		
A user account will be created for you to use instead of the root account for non-ac	dministrative ac	tivities.
Please enter the real name of this user. This information will be used for instance a sent by this user as well as any program which displays or uses the user's real name reasonable choice. Full name for the new user:		
shilintana		
Screenshot	Go Back	Continue
© debian 12		
Set up users and passwords		
Select a username for the new account. Your first name is a reasonable choice. The with a lower-case letter, which can be followed by any combination of numbers and Username for your account:		
shilintana		

Set up users and passwords

A good password will contain a mixture of letters, numbers and punctuation and should be changed at regular intervals.

Choose a password for the new user:

Show Password in Clear

Please enter the same user password again to verify you have typed it correctly.

Re-enter password to verify:

Show Password in Clear

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Configure the clock

Screenshot

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

Screenshot

Go Back

Go Back

Continue

Continue

ition	

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

Screenshot

Go Back

Continue

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Partition disks

Note that all data on the disk you select will be erased, but not before you have confirmed that you really want to make the changes.

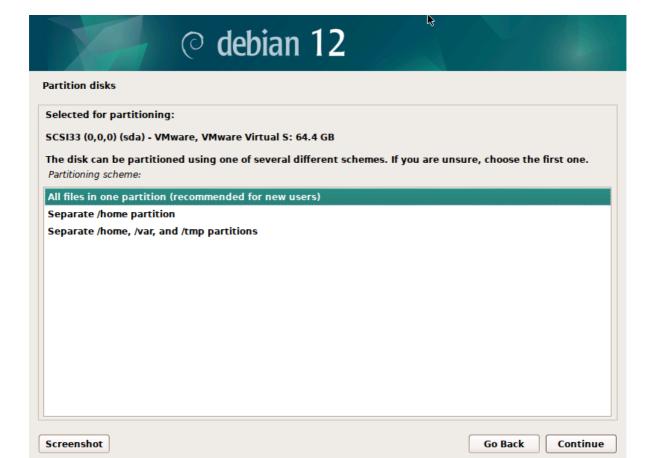
Select disk to partition:

SCSI33 (0,0,0) (sda) - 64.4 GB VMware, VMware Virtual S

Screenshot

Go Back

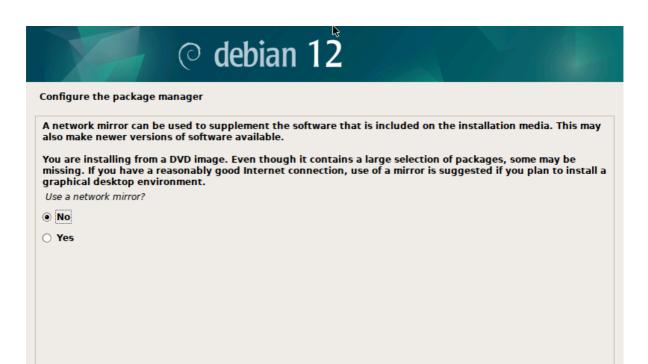
Continue



Partition disks This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table. **Guided partitioning Configure software RAID** Configure the Logical Volume Manager Configure encrypted volumes Configure iSCSI volumes ▽ SCSI33 (0,0,0) (sda) - 64.4 GB VMware, VMware Virtual S #1 primary 63.4 GB f ext4 #5 logical 1.0 GB f swap swap **Undo changes to partitions** Finish partitioning and write changes to disk Go Back Continue Screenshot Help

Partition disks If you continue, the changes listed below will be written to the disks. Otherwise, you will be able to make further changes manually. The partition tables of the following devices are changed: SCS133 (0,0,0) (sda) The following partitions are going to be formatted: partition #1 of SCSI33 (0,0,0) (sda) as ext4 partition #5 of SCSI33 (0,0,0) (sda) as swap Write the changes to disks? O No Yes Continue Screenshot

© debian 12 Configure the package manager Scanning your installation media finds the label: Debian GNU/Linux 12.1.0 Bookworm - Official amd64 DVD Binary-1 with firmware 20230722-10:49 You now have the option of scanning additional media for use by the package manager (apt). Normally these should be from the same set as the one you booted from. If you do not have any additional media, this step can just be skipped. If you wish to scan more media, please insert another one now. Scan extra installation media? No O Yes Screenshot Go Back Continue



Continue

Go Back

Go Back

Continue

© debian 12

Screenshot

Screenshot

Configure the package manager The goal is to find a mirror of the Debian archive that is close to you on the network -- be aware that nearby countries, or even your own, may not be the best choice. Debian archive mirror country: **Belarus** Belgium Bulgaria Cambodia Canada Chile China Costa Rica Croatia Czechia Denmark Estonia Finland France

Go Back

Continue

Configuring popularity-contest The system may anonymously supply the distribution developers with statistics about the most used packages on this system. This information influences decisions such as which packages should go on the first distribution CD. If you choose to participate, the automatic submission script will run once every week, sending statistics to the distribution developers. The collected statistics can be viewed on https://popcon.debian.org/. This choice can be later modified by running "dpkg-reconfigure popularity-contest". Participate in the package usage survey? No Yes Continue

Screenshot

Software selection	
At the moment, only the core of the system is installed. To tune the system to your needs, you coinstall one or more of the following predefined collections of software. Choose software to install:	an choose to
☐ Debian desktop environment	
GNOME	
☐ Xfce	
GNOME Flashback	
KDE Plasma	
Cinnamon	
MATE	
LXDE	
LXQt	
□ web server □ SSH server	
✓ standard system utilities	
Standard System attrictes	
Screenshot	Continue
3	
© debian 12	
O debian 12 Install the GRUB boot loader	
	be safe to
Install the GRUB boot loader It seems that this new installation is the only operating system on this computer. If so, it should install the GRUB boot loader to your primary drive (UEFI partition/boot record). Warning: If your computer has another operating system that the installer failed to detect, this operating system temporarily unbootable, though GRUB can be manually configured later to boo	will make that
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Go Back

Continue

Screenshot

You need to make the newly installed system bootable, by installing the GRUB boot loader on a bootable device. The usual way to do this is to install GRUB to your primary drive (UEFI partition/boot record). You may instead install GRUB to a different drive (or partition), or to removable media. Device for boot loader installation: Enter device manually /dev/sda

© debian 12

Finish the installation

Screenshot



Installation complete

Installation is complete, so it is time to boot into your new system. Make sure to remove the installation media, so that you boot into the new system rather than restarting the installation.

Please choose <Continue> to reboot.

Screenshot

Go Back

Continue

Continue

Go Back

配置系统

SSH可登录

```
echo "PermitRootLogin yes" >> /etc/ssh/sshd_config

systemctl restart sshd
systemctl status sshd

# 查看ip
hostname -I
```

删除本地DVD镜像源

```
sed -i '/dvd/d' /etc/apt/sources.list
apt update -y
```

挂载硬盘

配置共享目录

```
apt-get install open-vm-tools -y

mkdir -p /local_file

vmhgfs-fuse .host:/sealos /local_file
```

监控

硬盘

坏了会发出声音