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>
> Version: 0.1(20201029)

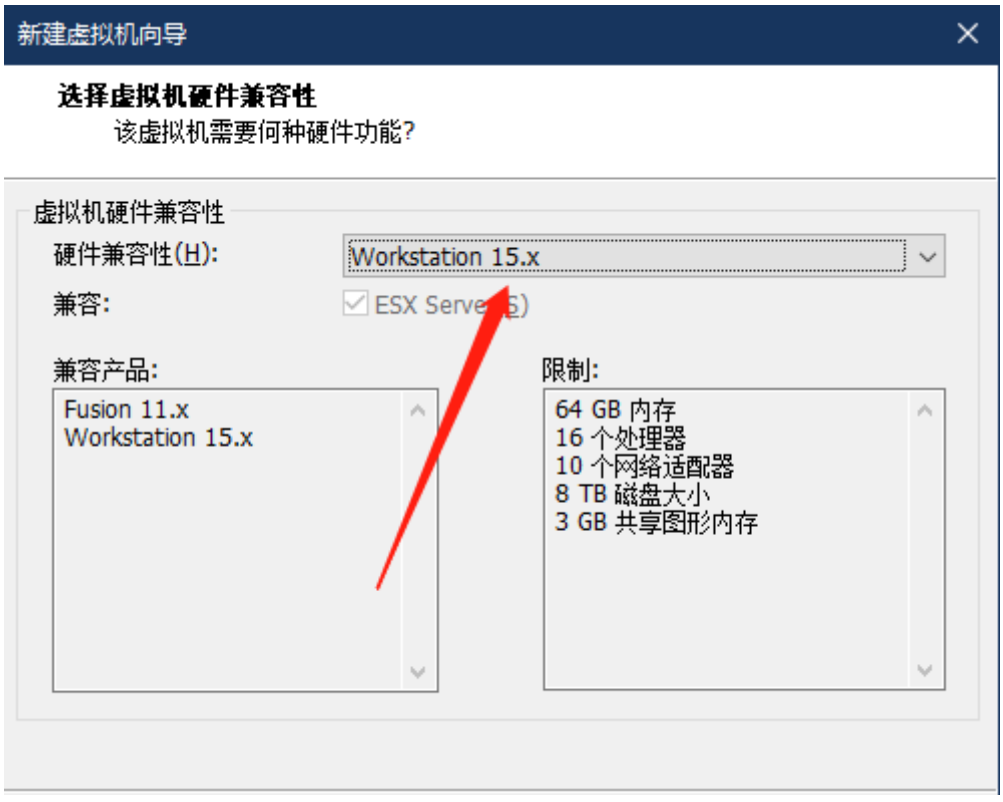
1、VMware创建虚拟机

> VMware Workstations安装Linux系统之Centos7系统详细过程图解

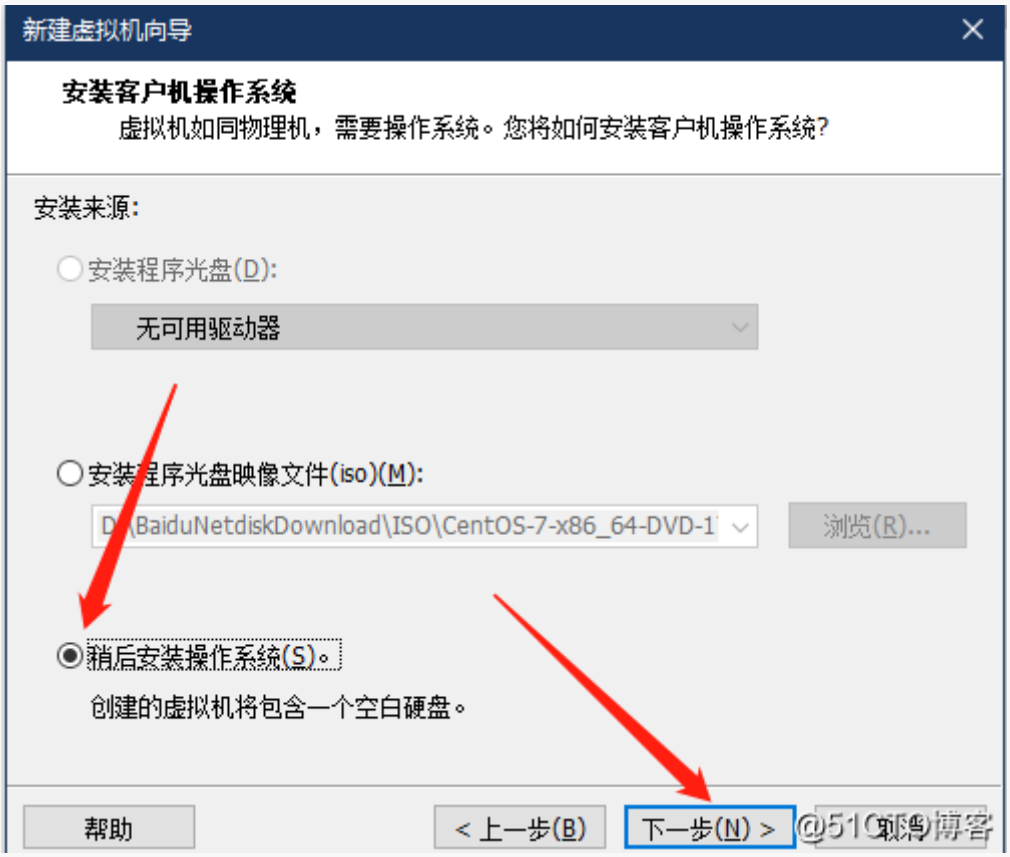
详细过程

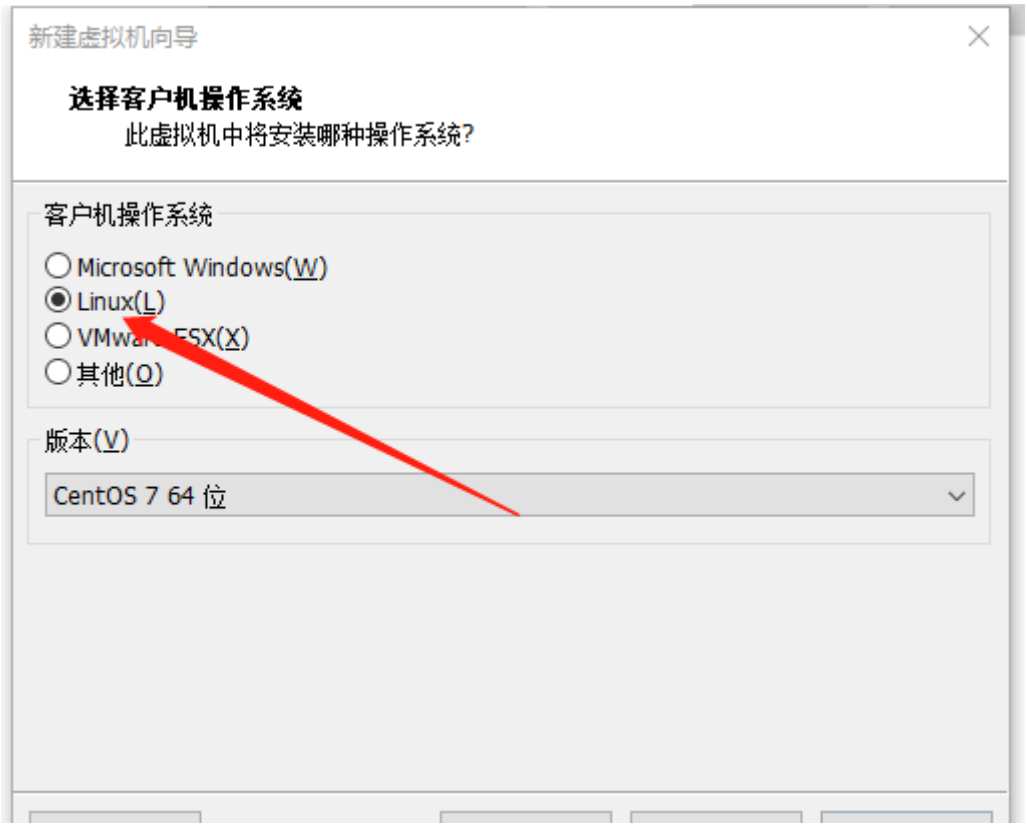
WORKSTATION 15 PRO™
创建新的虚拟机
打开虚拟机
连接远程服务器

新建虚拟机向导
欢迎使用新建虚拟机向导
VMWARE 15 WORKSTATION PRO™
您希望使用什么类型的配置?
典型(推荐)(T)
通过几个简单的步骤创建 Workstation 15.x 虚拟机。
自定义(高级)(C)
创建带有 SCSI 控制器类型、虚拟磁盘类型以及与旧版 VMware 产品兼容性等高级选项的虚拟机。

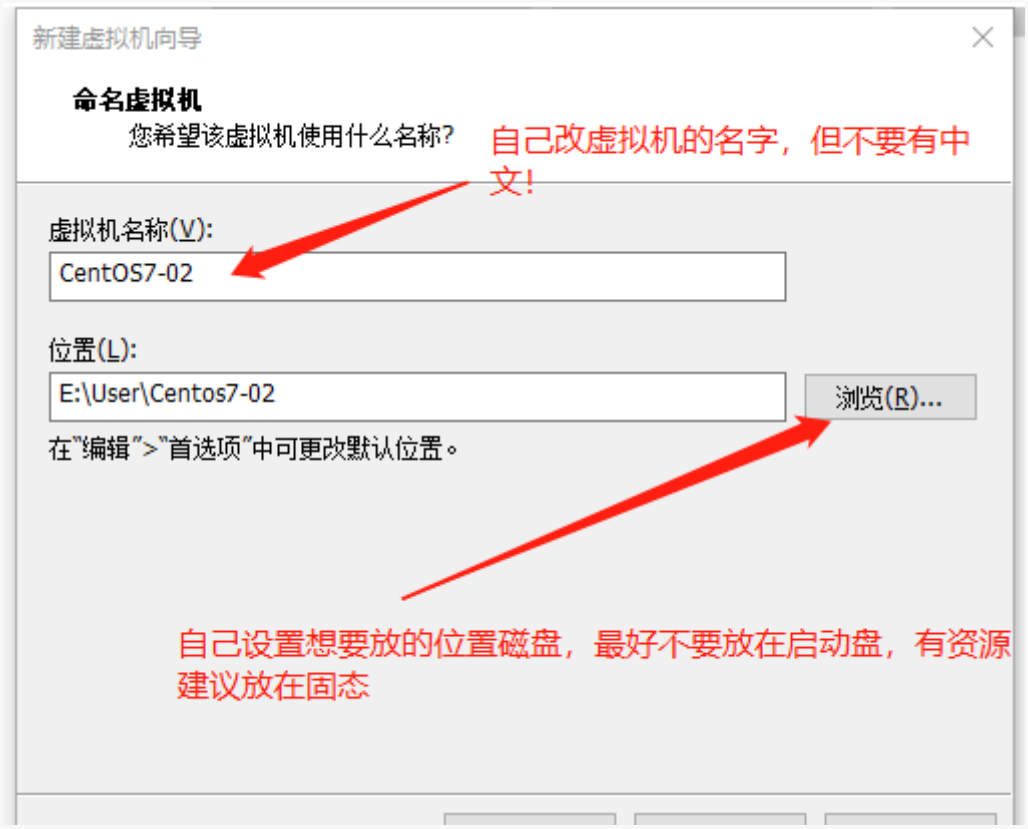

新建虚拟机向导
选择虚拟机硬件兼容性
该虚拟机需要何种硬件功能?
虚拟机硬件兼容性
硬件兼容性(H):
Workstation 15.x
兼容:
ESX Server(S)
兼容产品:
Fusion 11.x
Workstation 15.x
限制:
64 GB 内存
16 个处理器
10 个网络适配器
8 TB 磁盘大小
3 GB 共享图形内存

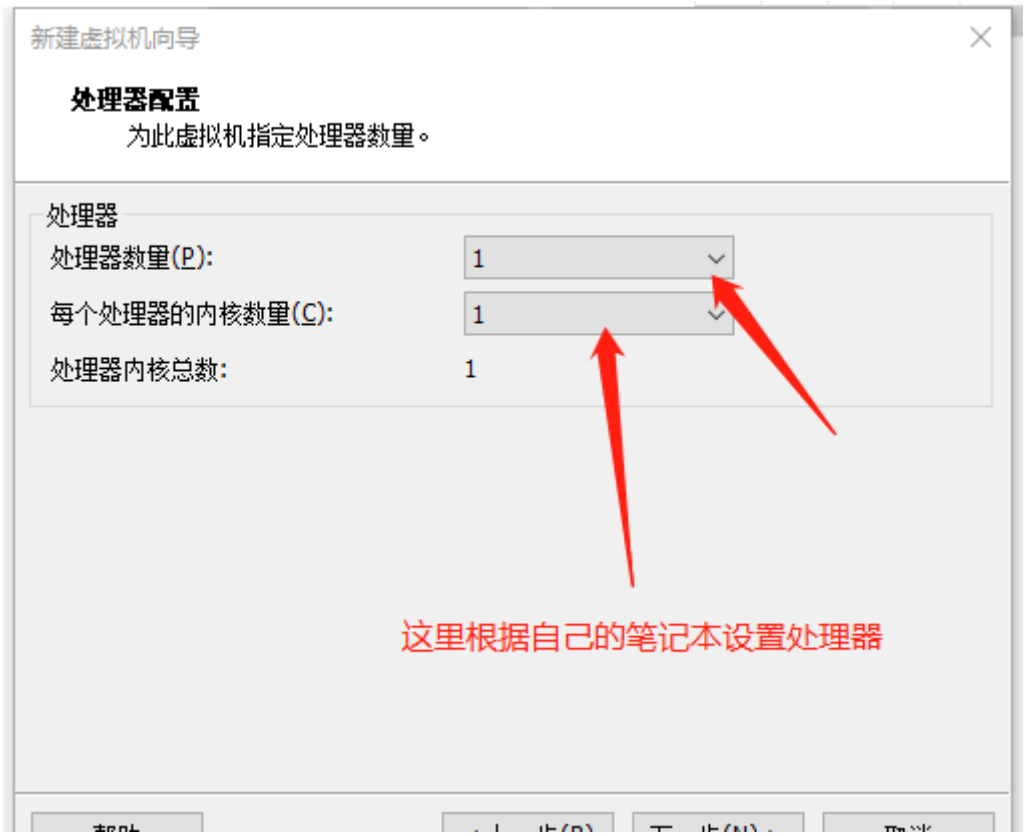
详细过程


新建虚拟机向导
安装客户机操作系统
虚拟机如同物理机，需要操作系统。您将如何安装客户机操作系统?
安装来源:
安装程序光盘(D):
无可用驱动器
安装程序光盘映像文件(iso)(M):
浏览(R)...
稍后安装操作系统(S)。
创建的虚拟机将包含一个空白硬盘。
帮助
< 上一步(B)
下一步(N) >
取消
@51CTO博客

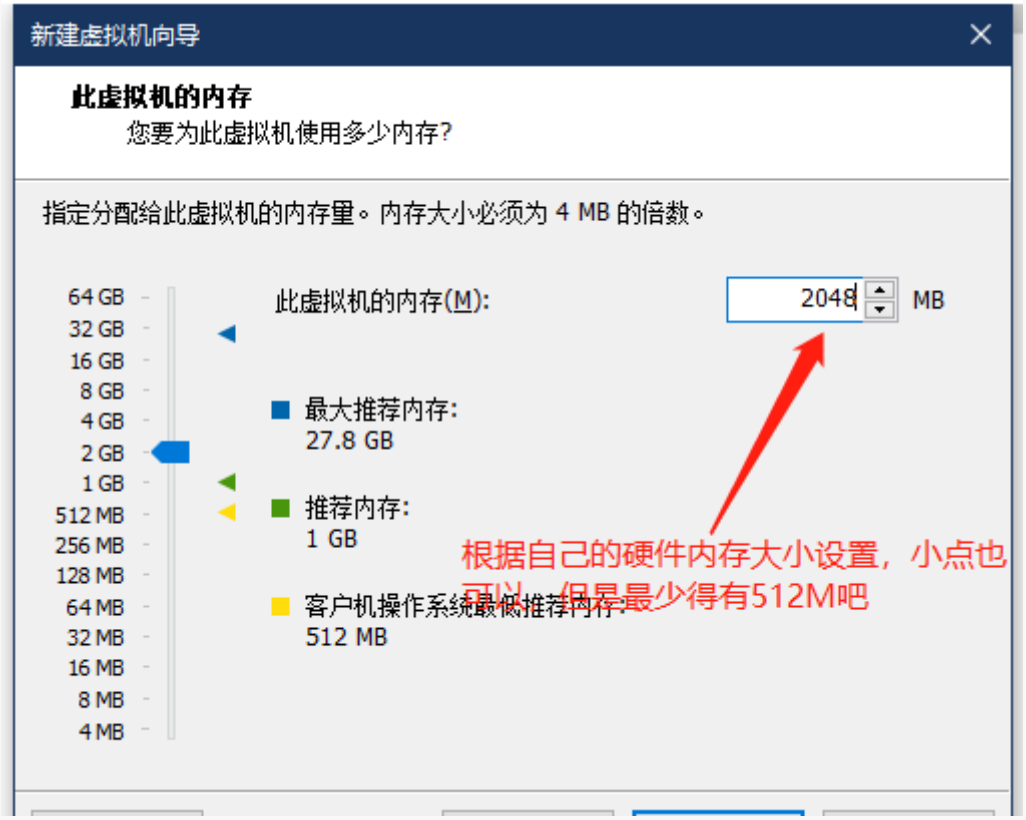

新建虚拟机向导
选择客户机操作系统
此虚拟机中将安装哪种操作系统?
客户机操作系统
Microsoft Windows(W)
Linux(L)
其他(O)
版本(V)
CentOS 7 64 位

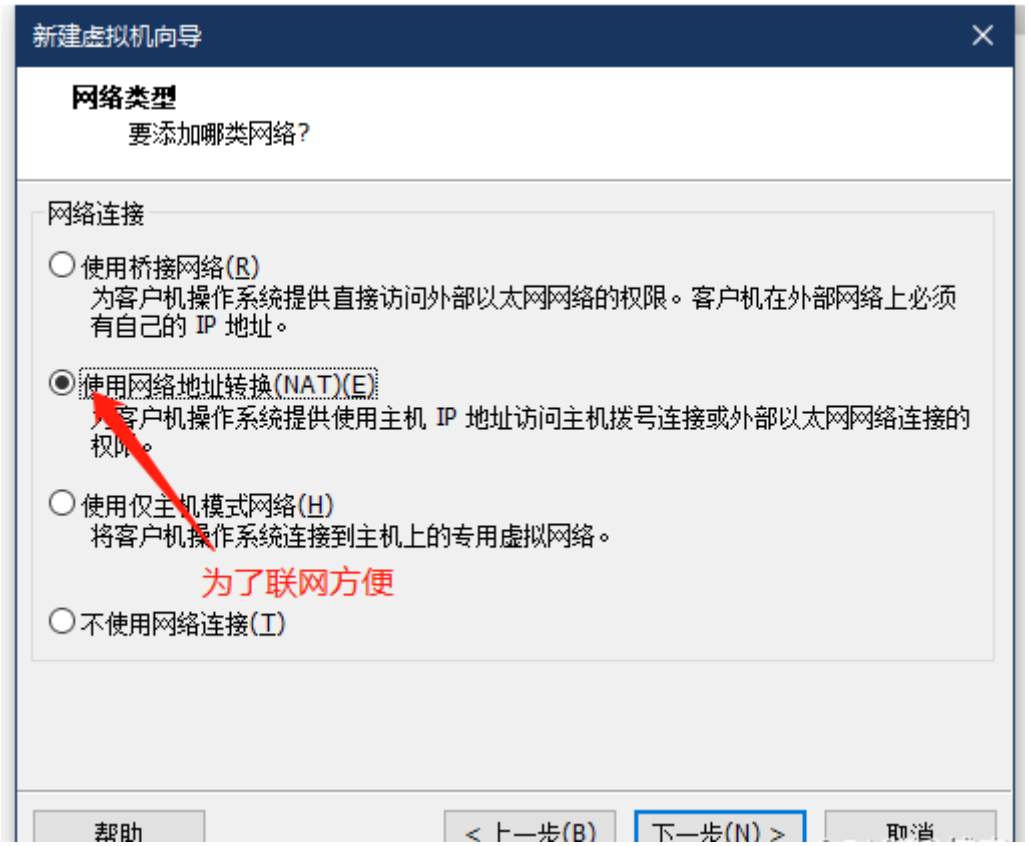
详细过程

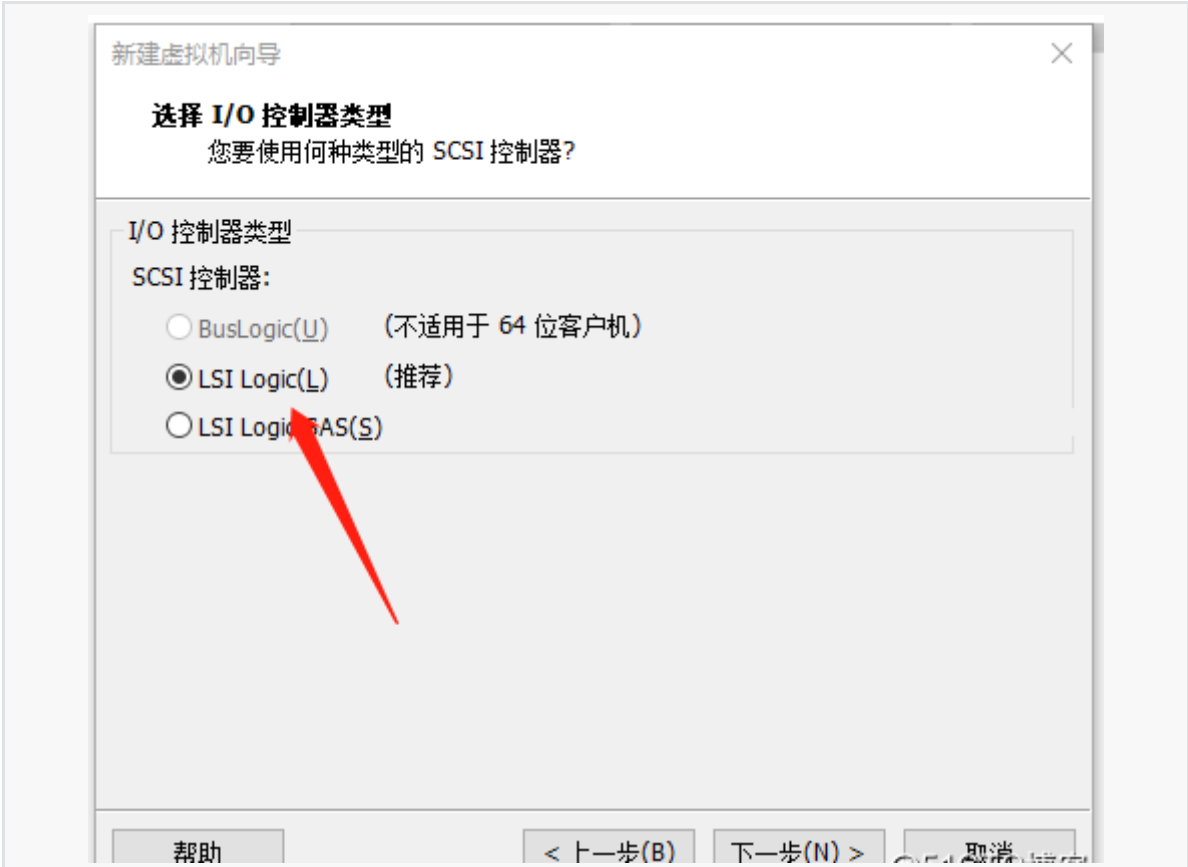

新建虚拟机向导
命名虚拟机
您希望该虚拟机使用什么名称?
自己改虚拟机的名字，但不要有中文!
虚拟机名称(V):
CentOS7-02
位置(L):
E:\User\Centos7-02
浏览(R)...
在"编辑">"首选项"中可更改默认位置。
自己设置想要放的位置磁盘，最好不要放在启动盘，有资源建议放在固态


新建虚拟机向导
处理器配置
为此虚拟机指定处理器数量。
处理器
处理器数量(P):
1
每个处理器的内核数量(C):
1
处理器内核总数:
1
这里根据自己的笔记本设置处理器

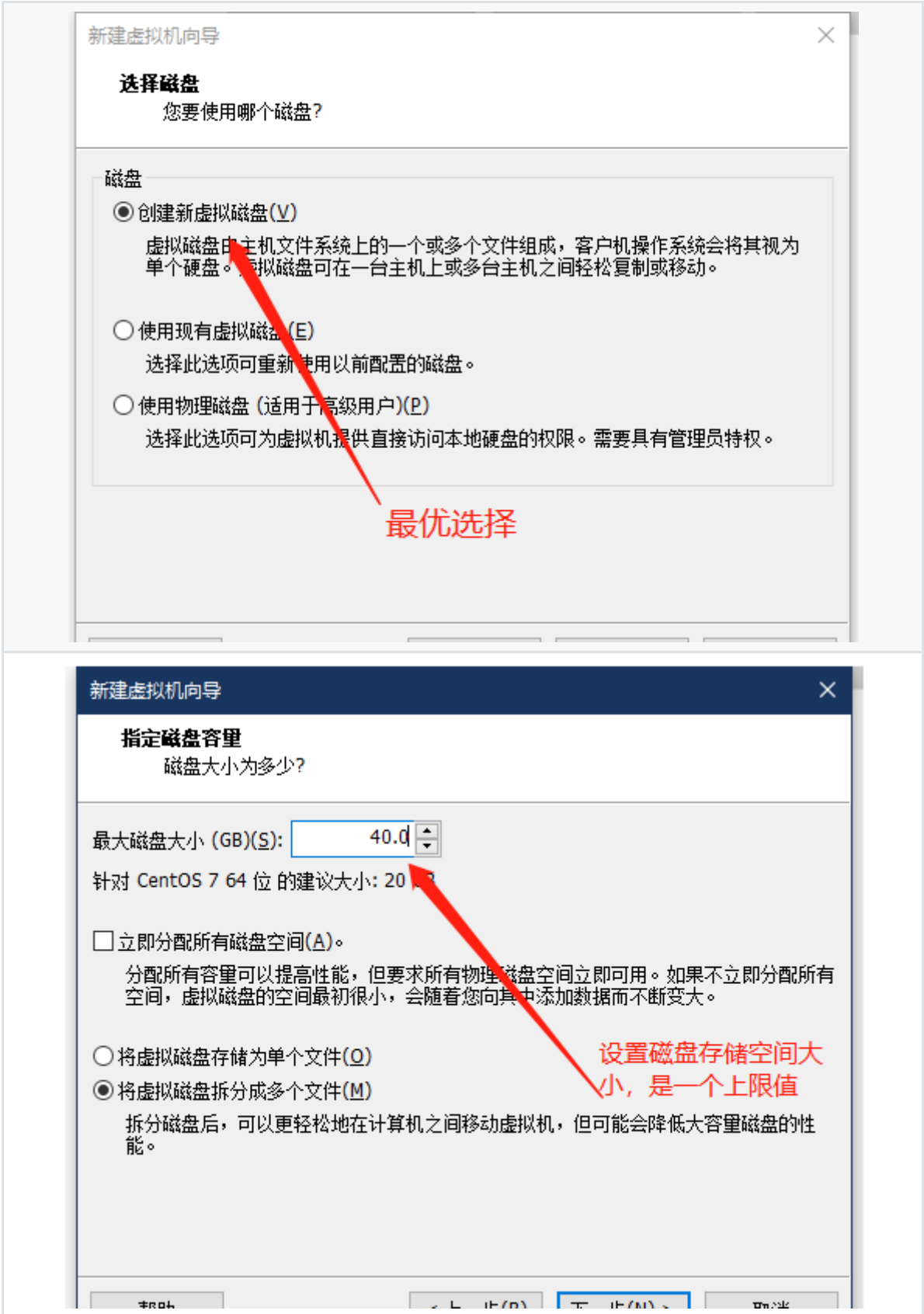
详细过程


新建虚拟机向导
此虚拟机的内存
您要为此虚拟机使用多少内存?
指定分配给此虚拟机的内存里。内存大小必须为 4 MB 的倍数。
64 GB
32 GB
16 GB
8 GB
4 GB
2 GB
1 GB
512 MB
256 MB
128 MB
64 MB
32 MB
16 MB
8 MB
4 MB
此虚拟机的内存(M):
2048
MB
最大推荐内存:
27.8 GB
推荐内存:
1 GB
客户机操作系统最低推荐内存:
512 MB
根据自己的硬件内存大小设置，小点也可以，但是最少得有512M吧


新建虚拟机向导
网络类型
要添加哪类网络?
网络连接
使用桥接网络(R)
为客户机操作系统提供直接访问外部以太网网络的权限。客户机在外部网络上必须有自己的 IP 地址。
使用网络地址转换(NAT)(E)
为客户机操作系统提供使用主机 IP 地址访问主机拨号连接或外部以太网网络连接的权限。
使用仅主机模式网络(H)
将客户机操作系统连接到主机上的专用虚拟网络。
为了联网方便
不使用网络连接(T)
帮助
< 上一步(B)
下一步(N) >
取消

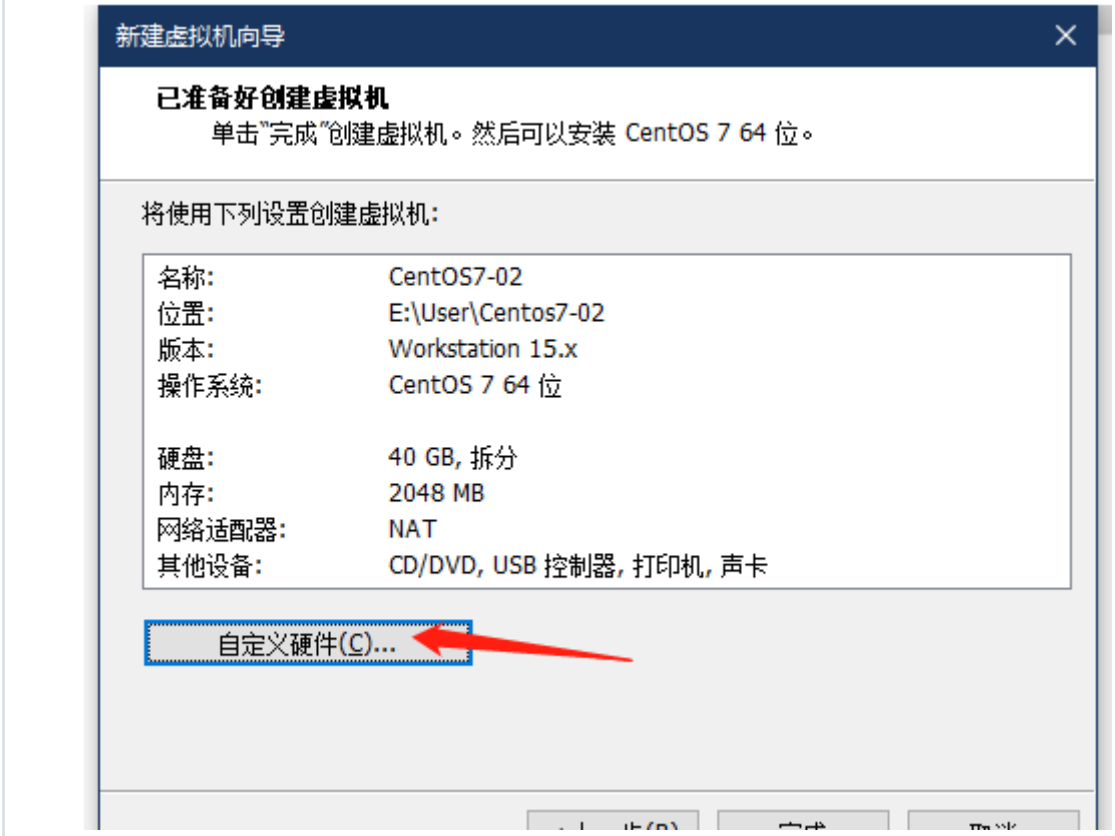

新建虚拟机向导
选择 I/O 控制器类型
您要使用何种类型的 SCSI 控制器?
I/O 控制器类型
SCSI 控制器:
BusLogic(U)
(不适用于 64 位客户机)
LSI Logic(L)
(推荐)
LSI Logic SAS(S)
帮助
< 上一步(B)
下一步(N) >

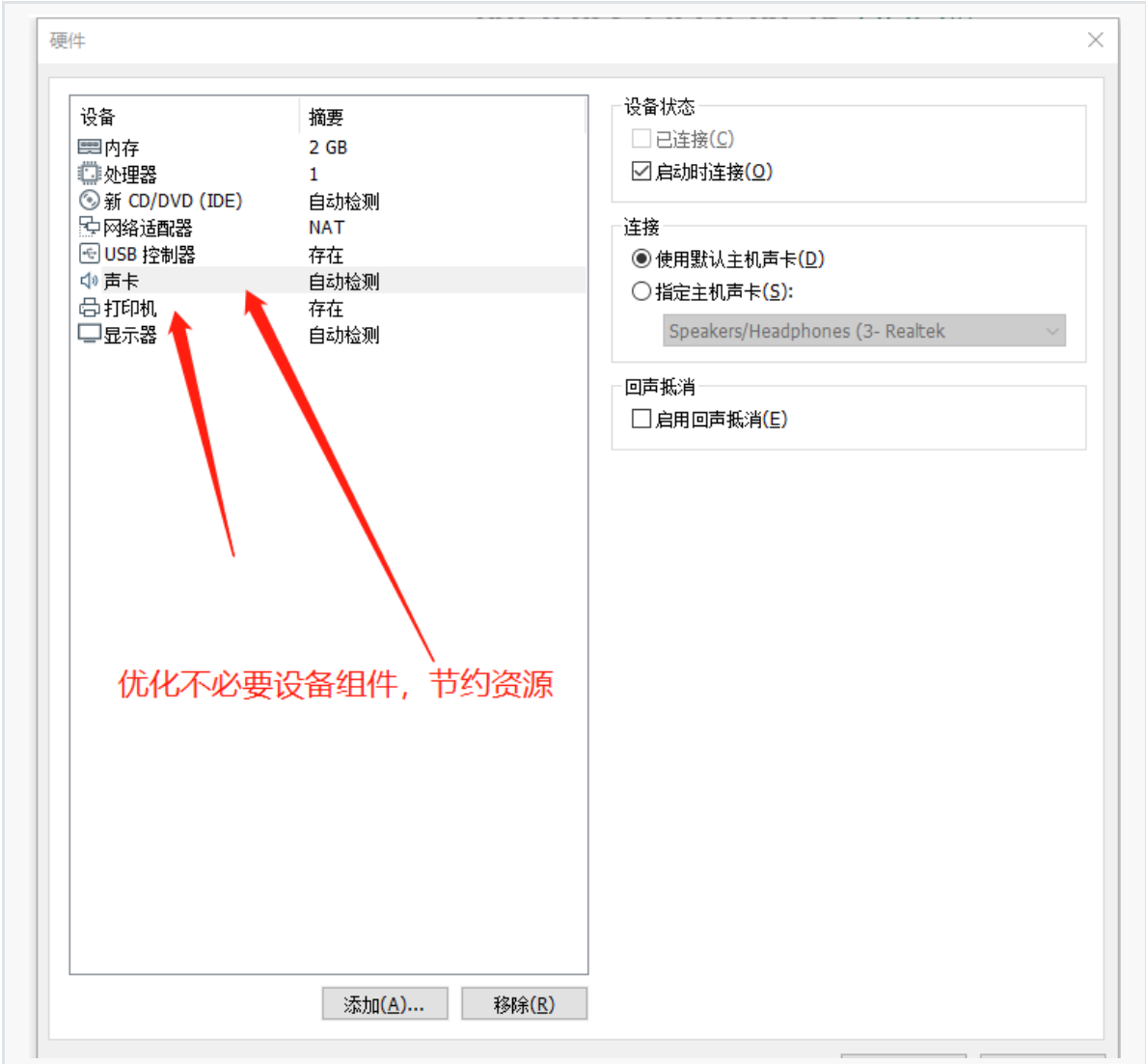
新建虚拟机向导
选择磁盘类型
您要创建何种磁盘?
虚拟磁盘类型
IDE(I)
SCSI(S)
(推荐)
SATA(A)
NVMe(V)

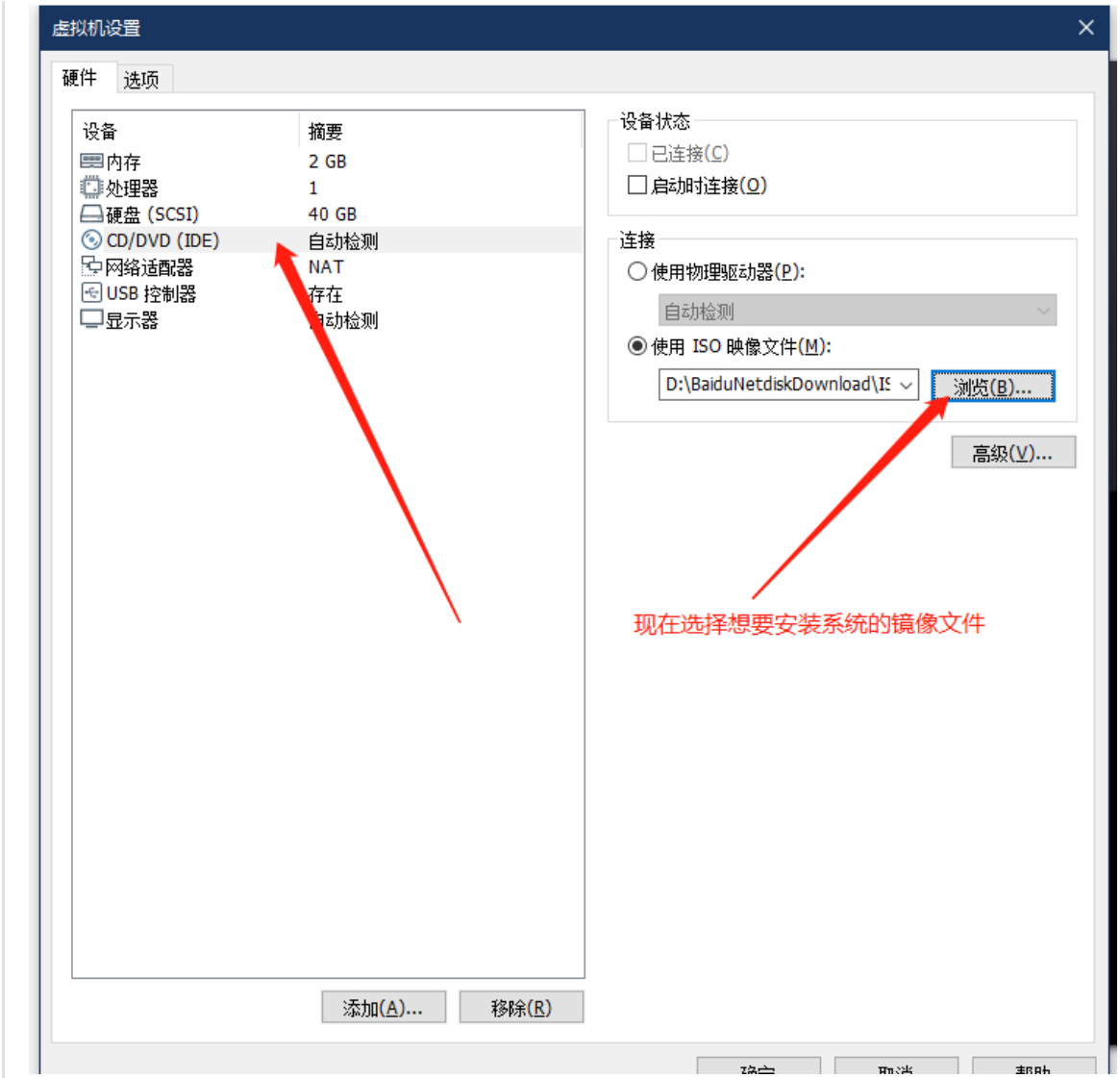

新建虚拟机向导
选择磁盘
您要使用哪个磁盘?
磁盘
创建新虚拟磁盘(V)
虚拟磁盘由主机文件系统上的一个或多个文件组成，客户机操作系统会将其视为单个硬盘。虚拟磁盘可在一台主机上或多台主机之间轻松复制或移动。
使用现有虚拟磁盘(E)
选择此选项可重新使用以前配置的磁盘。
使用物理磁盘 (适用于高级用户)(P)
选择此选项可为虚拟机提供直接访问本地硬盘的权限。需要具有管理员特权。
最优选择

新建虚拟机向导
指定磁盘容量
磁盘大小为多少?
最大磁盘大小 (GB)(S):
40.0
针对 CentOS 7 64 位 的建议大小: 20
立即分配所有磁盘空间(A)。
分配所有容量可以提高性能，但要求所有物理磁盘空间立即可用。如果不立即分配所有空间，虚拟磁盘的空间最初很小，会随着您向其中添加数据而不断变大。
将虚拟磁盘存储为单个文件(O)
将虚拟磁盘拆分成多个文件(M)
拆分磁盘后，可以更轻松地在计算机之间移动虚拟机，但可能会降低大容量磁盘的性能。
设置磁盘存储空间大小，是一个上限值

新建虚拟机向导
指定磁盘文件
您要在何处存储磁盘文件?
磁盘文件(F)
将使用多个磁盘文件创建一个 40 GB 虚拟磁盘。将根据此文件名自动命名这些磁盘文件。
E:\User\Centos7-02\CentOS7-02.vmdk
浏览(R)...
找到刚刚自己安装的路径文件夹


新建虚拟机向导
已准备好创建虚拟机
单击"完成"创建虚拟机。然后可以安装 CentOS 7 64 位。
将使用下列设置创建虚拟机:
名称: CentOS7-02
位置: E:\User\Centos7-02
版本: Workstation 15.x
操作系统: CentOS 7 64 位
硬盘: 40 GB, 拆分
内存: 2048 MB
网络适配器: NAT
其他设备: CD/DVD, USB 控制器, 打印机, 声卡
自定义硬件(C)...


硬件
设备
摘要
内存
2 GB
处理器
1
新 CD/DVD (IDE)
自动检测
网络适配器
NAT
USB 控制器
存在
声卡
自动检测
打印机
存在
显示器
自动检测
优化不必要设备组件，节约资源
添加(A)...
移除(R)
设备状态
已连接(C)
启动时连接(O)
连接
使用默认主机声卡(D)
指定主机声卡(S):
Speakers/Headphones (3- Realtek
回声抵消
启用回声抵消(E)

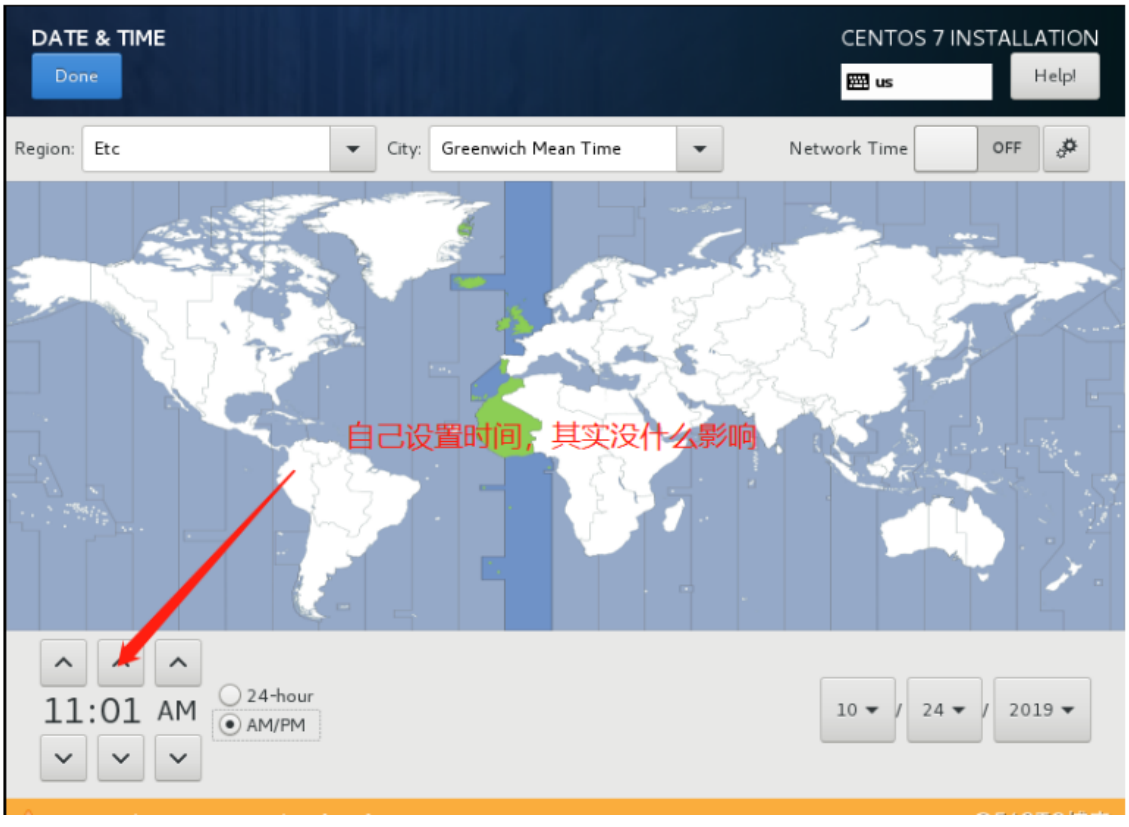

虚拟机设置
硬件
选项
设备
摘要
内存
2 GB
处理器
1
硬盘 (SCSI)
40 GB
CD/DVD (IDE)
自动检测
网络适配器
NAT
USB 控制器
存在
显示器
自动检测
添加(A)...
移除(R)
设备状态
已连接(C)
启动时连接(O)
连接
使用物理驱动器(P):
自动检测
使用 ISO 映像文件(M):
D:\BaiduNetdiskDownload\IS
浏览(B)...
高级(V)...
现在选择想要安装系统的镜像文件

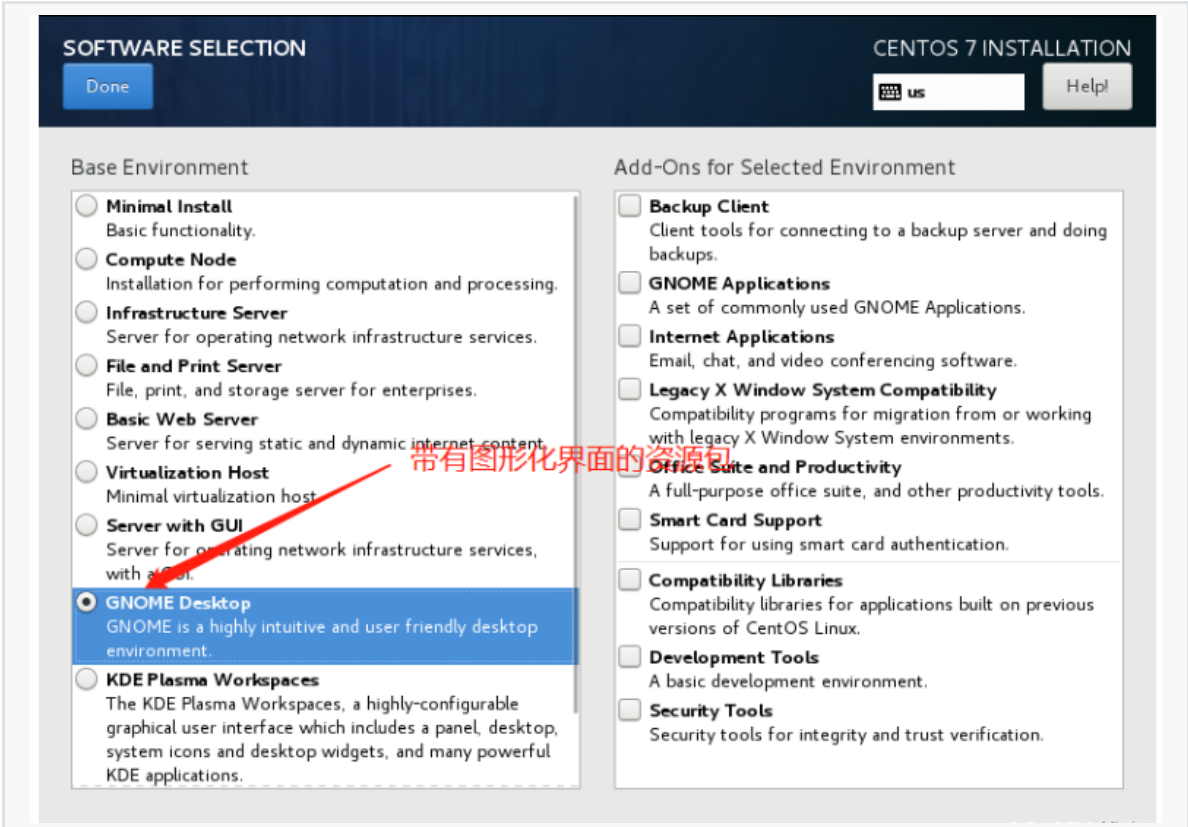
2、安装Centos

CentOS7-02
开启此虚拟机
编辑虚拟机设置
设备
打开虚拟机
Ctrl+ALT进入，按上下键进行选择Install Centos7
CentOS 7
Install CentOS 7
Test this media & install CentOS 7
Troubleshooting
Press Tab for full configuration options on menu items.

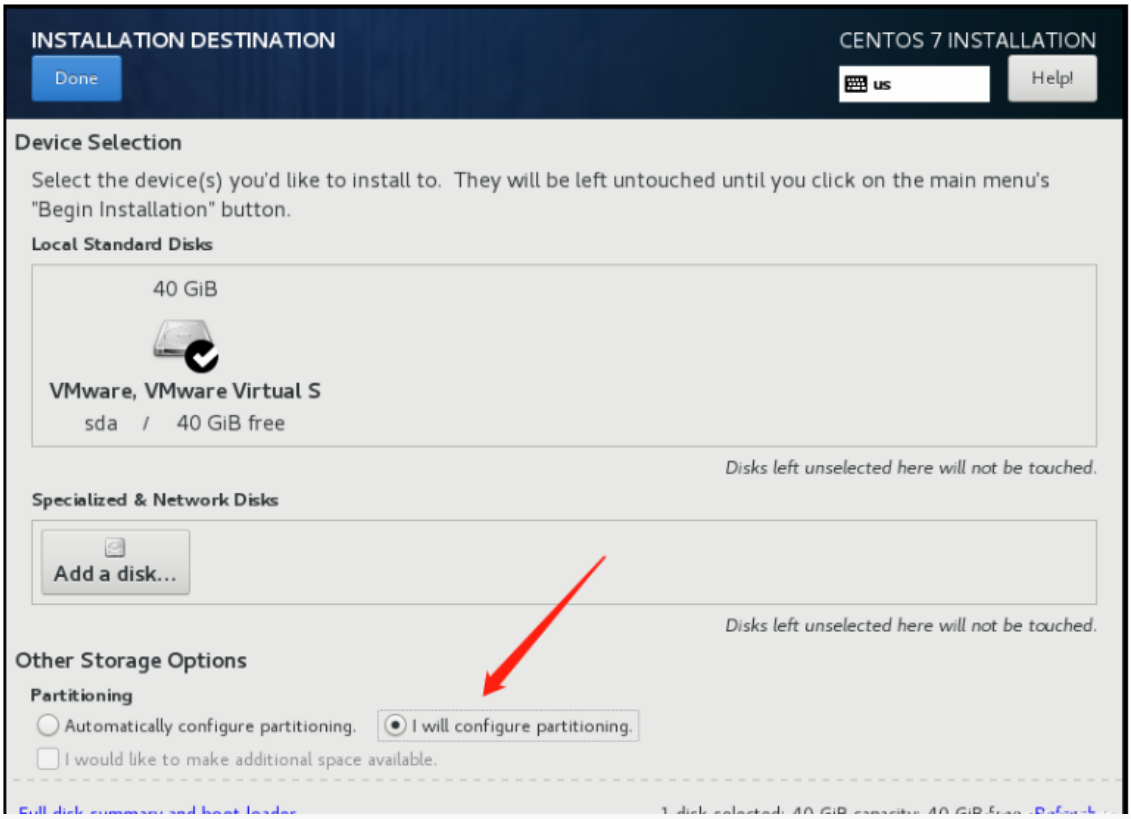
CentOS
CENTOS 7 INSTALLATION
us
Help!
选择语言
WELCOME TO CENTOS 7.
What language would you like to use during the installation process?
English
English
Afrikaans
Afrikaans
አማርኛ
Amharic
العربية
Arabic
অসমীয়া
Assamese
Asturianu
Asturian
Беларуская
Belarusian
Български
Bulgarian
বাংলা
Bengali
English (United States)
English (United Kingdom)
English (India)
English (Australia)
English (Canada)
English (Denmark)
English (Ireland)
English (New Zealand)
English (Nigeria)
English (Hong Kong SAR China)

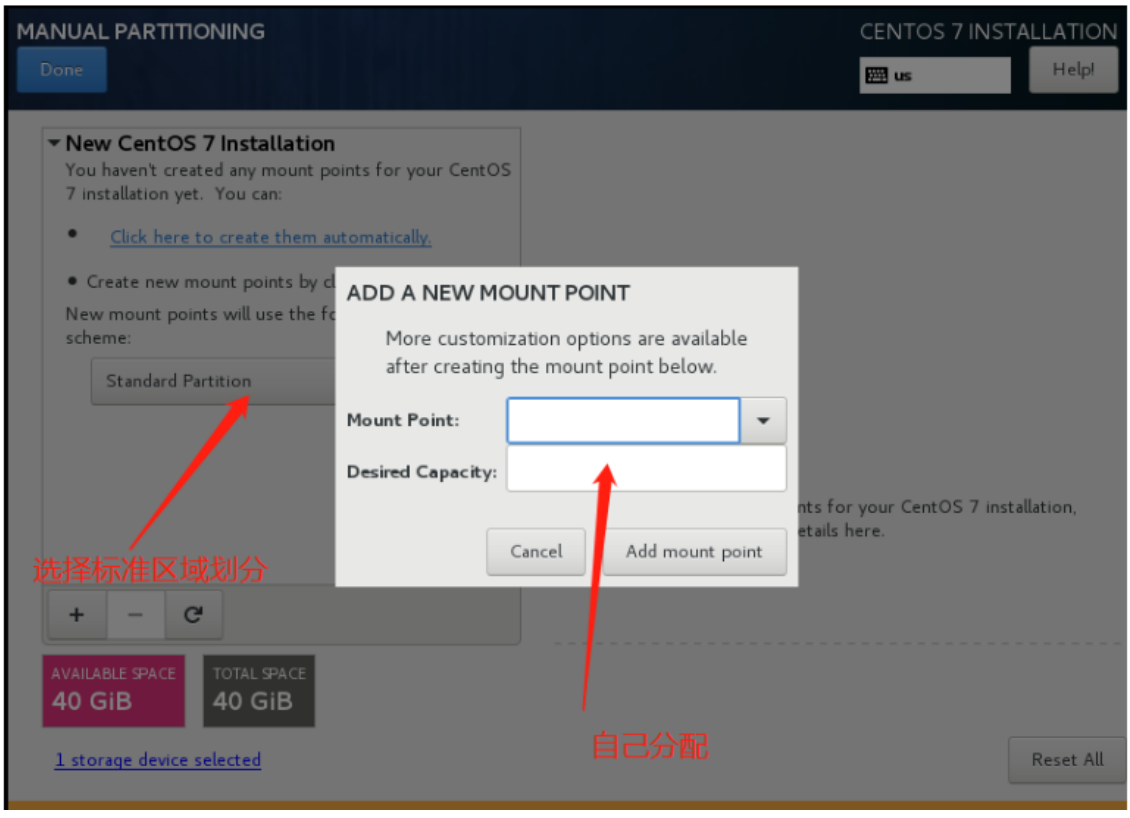
INSTALLATION SUMMARY
CENTOS 7 INSTALLATION
us
Help!
CentOS
设置时间
LOCALIZATION
DATE & TIME
Americas/New York timezone
KEYBOARD
English (US)
LANGUAGE SUPPORT
English (United States)
设置安装资源包
SOFTWARE
INSTALLATION SOURCE
Local media
SOFTWARE SELECTION
Minimal Install
SYSTEM
INSTALLATION DESTINATION
KDUMP
Quit
Begin Installation
We won't touch your disks until you click 'Begin Installation'.

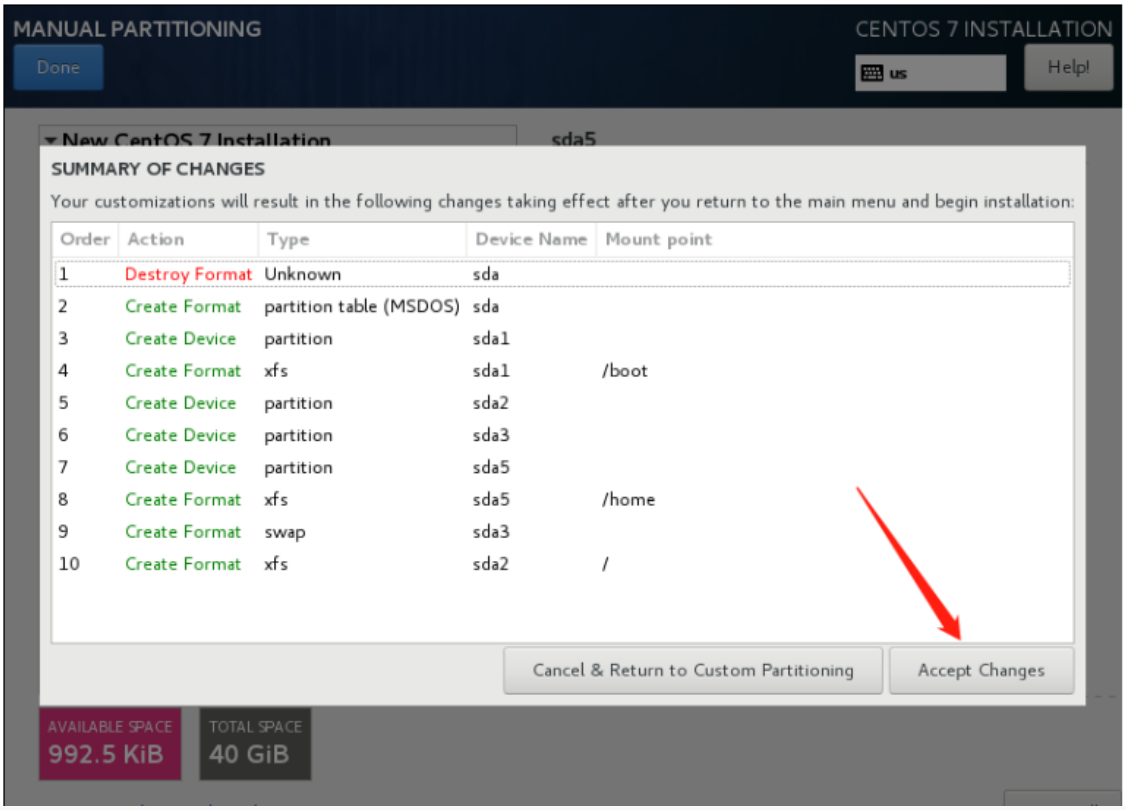

DATE & TIME
Done
CENTOS 7 INSTALLATION
us
Help!
Region: Etc
City: Greenwich Mean Time
Network Time
OFF
自己设置时间，其实没什么影响
11:01 AM
24-hour
AM/PM
10
24
2019

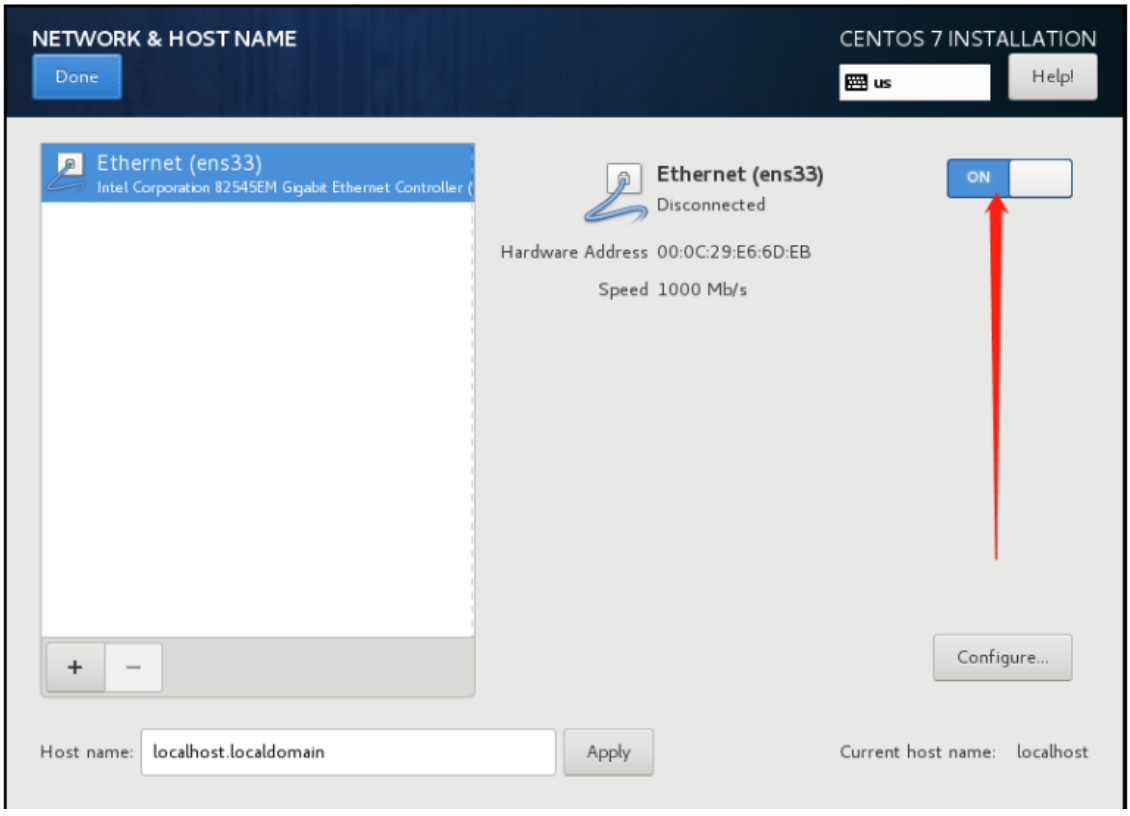

SOFTWARE SELECTION
Done
CENTOS 7 INSTALLATION
us
Help!
Base Environment
Minimal Install
Basic functionality.
Compute Node
Installation for performing computation and processing.
Infrastructure Server
Server for operating network infrastructure services.
File and Print Server
File, print, and storage server for enterprises.
Basic Web Server
Server for serving static and dynamic internet content.
Virtualization Host
Minimal virtualization host.
Server with GUI
Server for operating network infrastructure services, with a GUI.
GNOME Desktop
GNOME is a highly intuitive and user friendly desktop environment.
KDE Plasma Workspaces
The KDE Plasma Workspaces, a highly-configurable graphical user interface which includes a panel, desktop, system icons and desktop widgets, and many powerful KDE applications.
Add-Ons for Selected Environment
Backup Client
Client tools for connecting to a backup server and doing backups.
GNOME Applications
A set of commonly used GNOME Applications.
Internet Applications
Email, chat, and video conferencing software.
Legacy X Window System Compatibility
Compatibility programs for migration from or working with legacy X Window System environments.
Office Suite and Productivity
A full-purpose office suite, and other productivity tools.
Smart Card Support
Support for using smart card authentication.
Compatibility Libraries
Compatibility libraries for applications built on previous versions of CentOS Linux.
Development Tools
A basic development environment.
Security Tools
Security tools for integrity and trust verification.
带有图形化界面的资源包

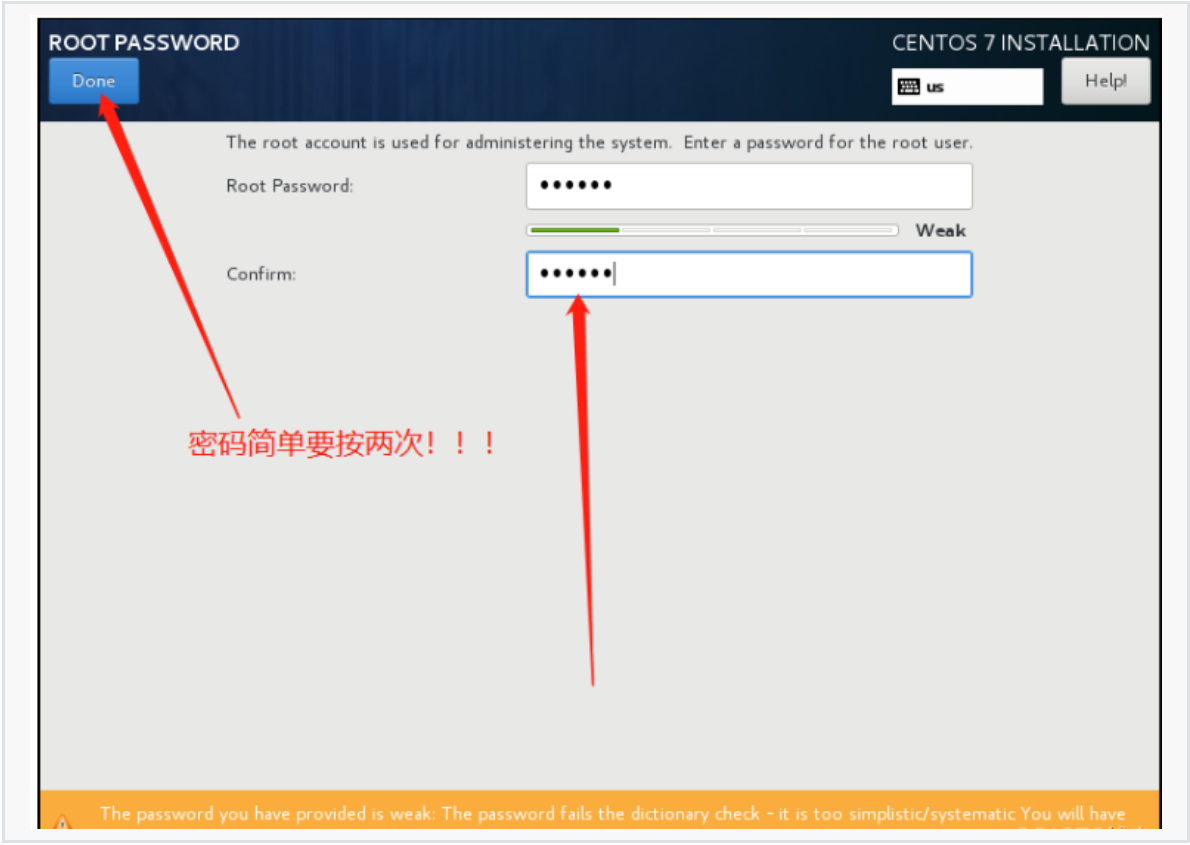
CentOS
INSTALLATION SUMMARY
CENTOS 7 INSTALLATION
us
Help!
DATE & TIME
Etc/Greenwich M... Time timezone
KEYBOARD
English (US)
LANGUAGE SUPPORT
English (United States)
SOFTWARE
INSTALLATION SOURCE
Local media
SOFTWARE SELECTION
GNOME Desktop
手动设置磁盘分配
SYSTEM
INSTALLATION DESTINATION
Custom partitioning selected
KDUMP
Kdump is enabled
NETWORK & HOST NAME
Not connected
SECURITY POLICY
No profile selected
打开network
Quit
Begin Installation

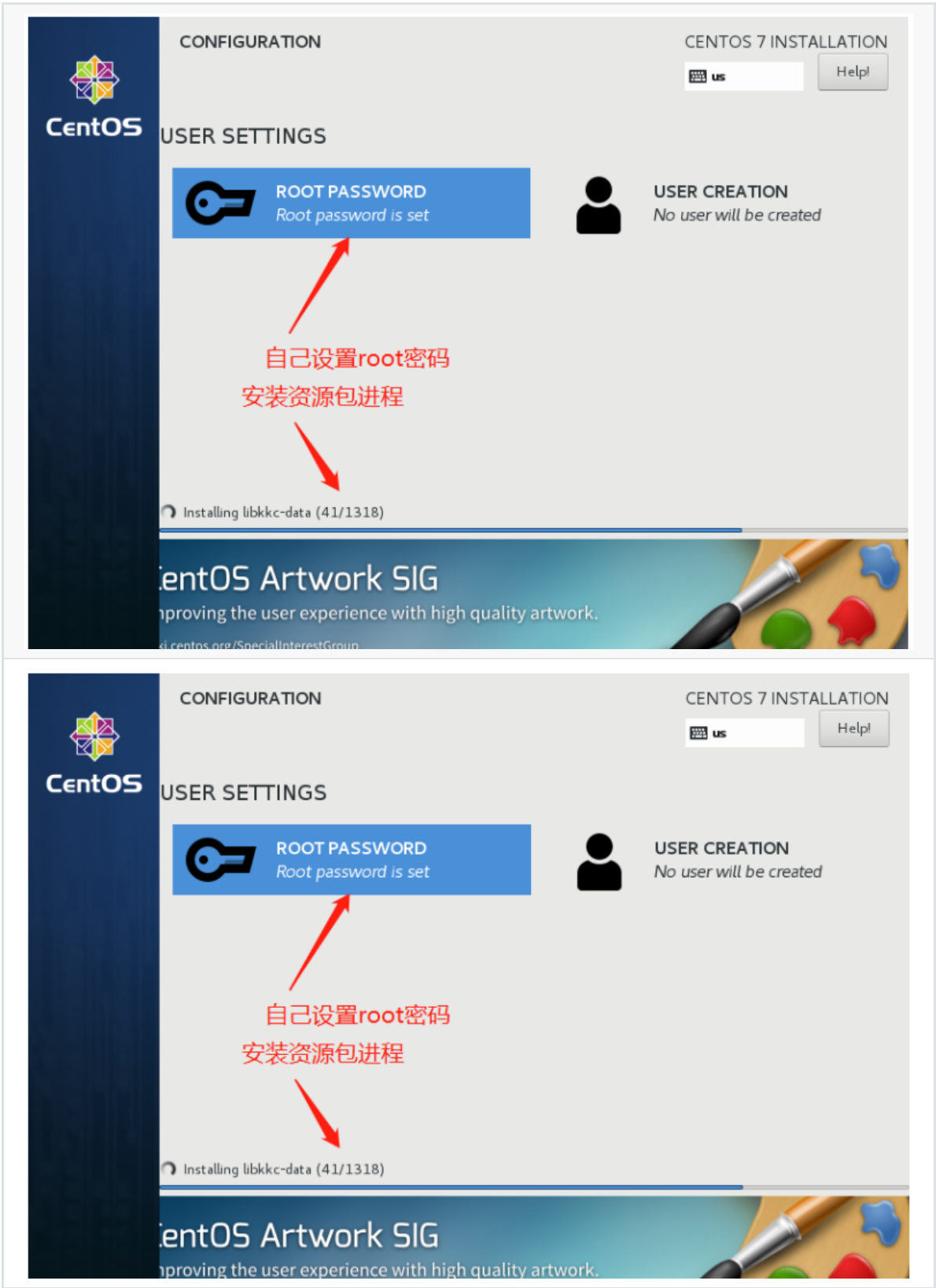

INSTALLATION DESTINATION
Done
CENTOS 7 INSTALLATION
us
Help!
Device Selection
Select the device(s) you'd like to install to. They will be left untouched until you click on the main menu's "Begin Installation" button.
Local Standard Disks
40 GiB
VMware, VMware Virtual S
sda / 40 GiB free
Disks left unselected here will not be touched.
Specialized & Network Disks
Add a disk...
Disks left unselected here will not be touched.
Other Storage Options
Partitioning
Automatically configure partitioning.
I will configure partitioning.
I would like to make additional space available.


MANUAL PARTITIONING
Done
CENTOS 7 INSTALLATION
us
Help!
New CentOS 7 Installation
You haven't created any mount points for your CentOS 7 installation yet. You can:
Click here to create them automatically.
Create new mount points by
New mount points will use the
scheme:
Standard Partition
ADD A NEW MOUNT POINT
More customization options are available after creating the mount point below.
Mount Point:
Desired Capacity:
Cancel
Add mount point
选择标准区域划分
自己分配
AVAILABLE SPACE
40 GiB
TOTAL SPACE
40 GiB
1 storage device selected
Reset All


MANUAL PARTITIONING
Done
CENTOS 7 INSTALLATION
us
Help!
New CentOS 7 Installation
sda5
SUMMARY OF CHANGES
Your customizations will result in the following changes taking effect after you return to the main menu and begin installation:
Order Action Type Device Name Mount point
1 Destroy Format Unknown sda
2 Create Format partition table (MSDOS) sda
3 Create Device partition sda1
4 Create Format xfs sda1 /boot
5 Create Device partition sda2
6 Create Device partition sda3
7 Create Device partition sda5
8 Create Format xfs sda5 /home
9 Create Format swap sda3
10 Create Format xfs sda2 /
Cancel & Return to Custom Partitioning
Accept Changes
AVAILABLE SPACE
992.5 KiB
TOTAL SPACE
40 GiB


NETWORK & HOST NAME
Done
CENTOS 7 INSTALLATION
us
Help!
Ethernet (ens33)
Intel Corporation 82545EM Gigabit Ethernet Controller
Ethernet (ens33)
Disconnected
ON
Hardware Address 00:0C:29:E6:6D:EB
Speed 1000 Mb/s
Configure...
Host name: localhost.localdomain
Apply
Current host name: localhost


ROOT PASSWORD
Done
CENTOS 7 INSTALLATION
us
Help!
The root account is used for administering the system. Enter a password for the root user.
Root Password:
Weak
Confirm:
密码简单要按两次！！！
The password you have provided is weak: The password fails the dictionary check - it is too simplistic/systematic You will have


CONFIGURATION
CENTOS 7 INSTALLATION
us
Help!
USER SETTINGS
ROOT PASSWORD
Root password is set
USER CREATION
No user will be created
自己设置root密码
安装资源包进程
Installing libkkc-data (41/1318)
entOS Artwork SIG
proving the user experience with high quality artwork.

CONFIGURATION
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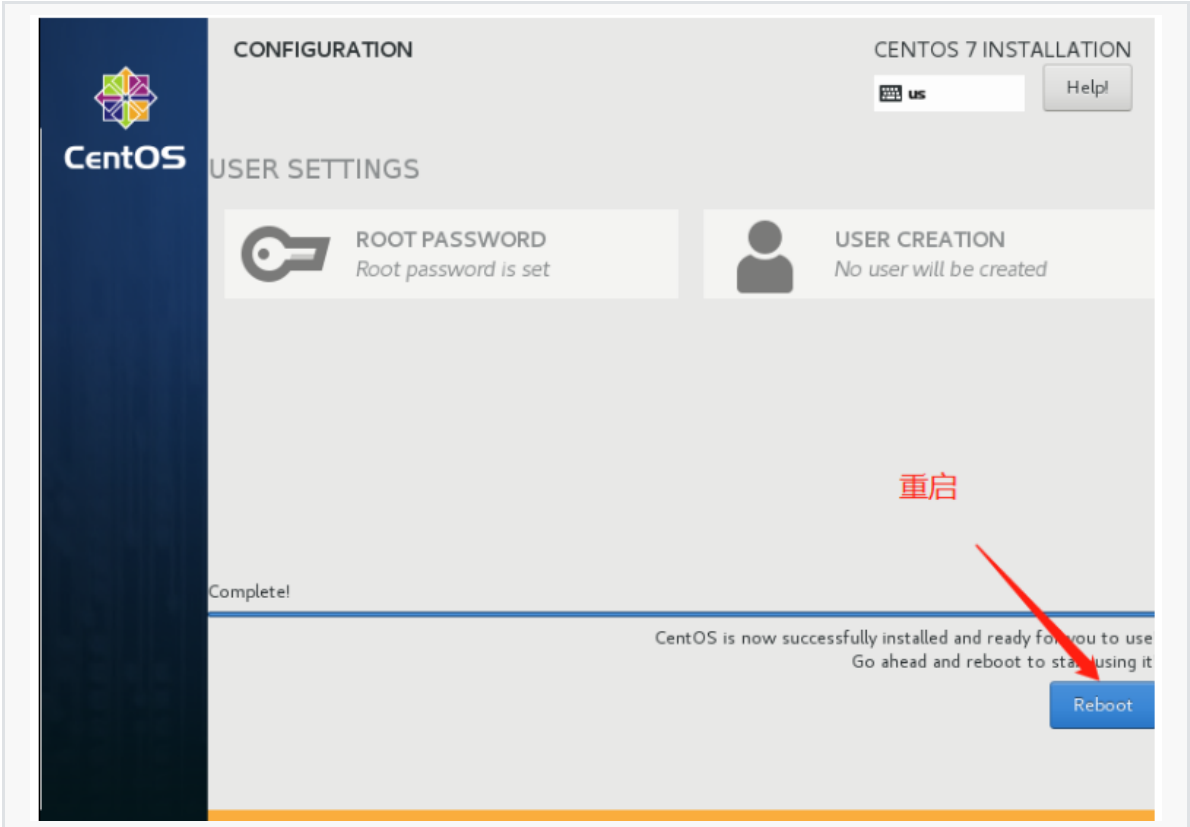
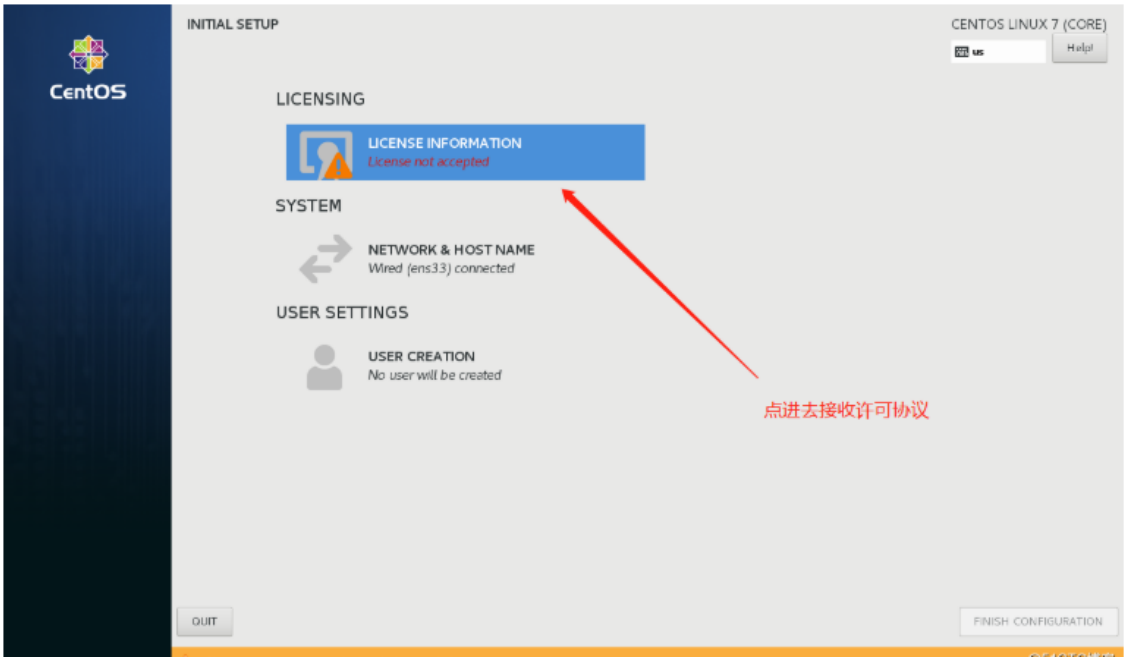
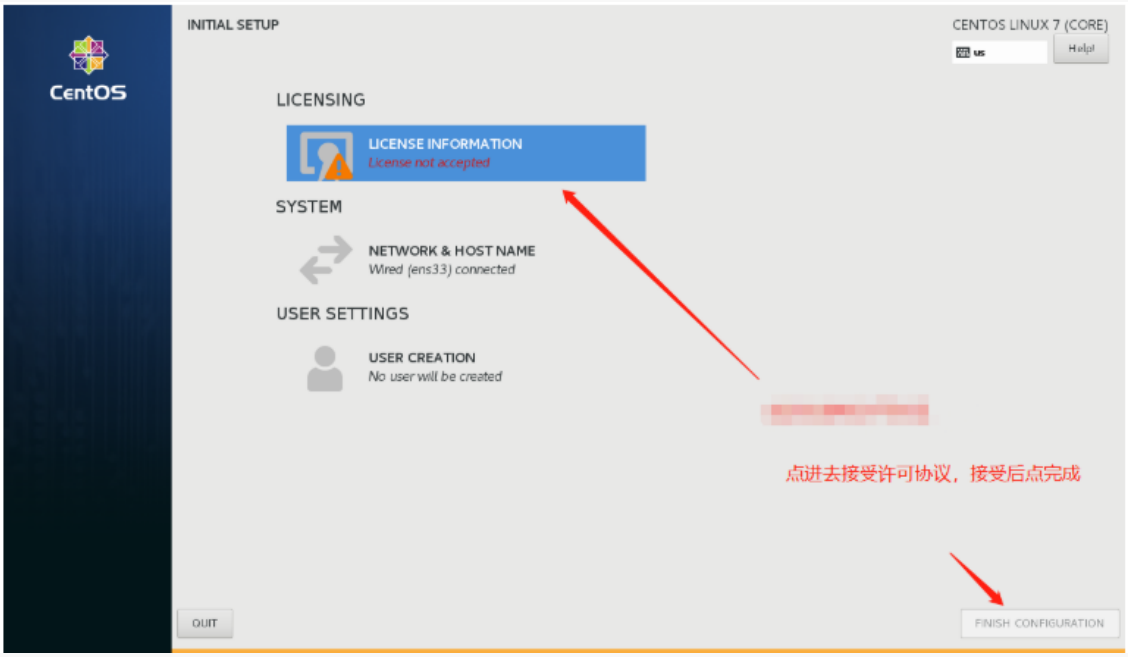
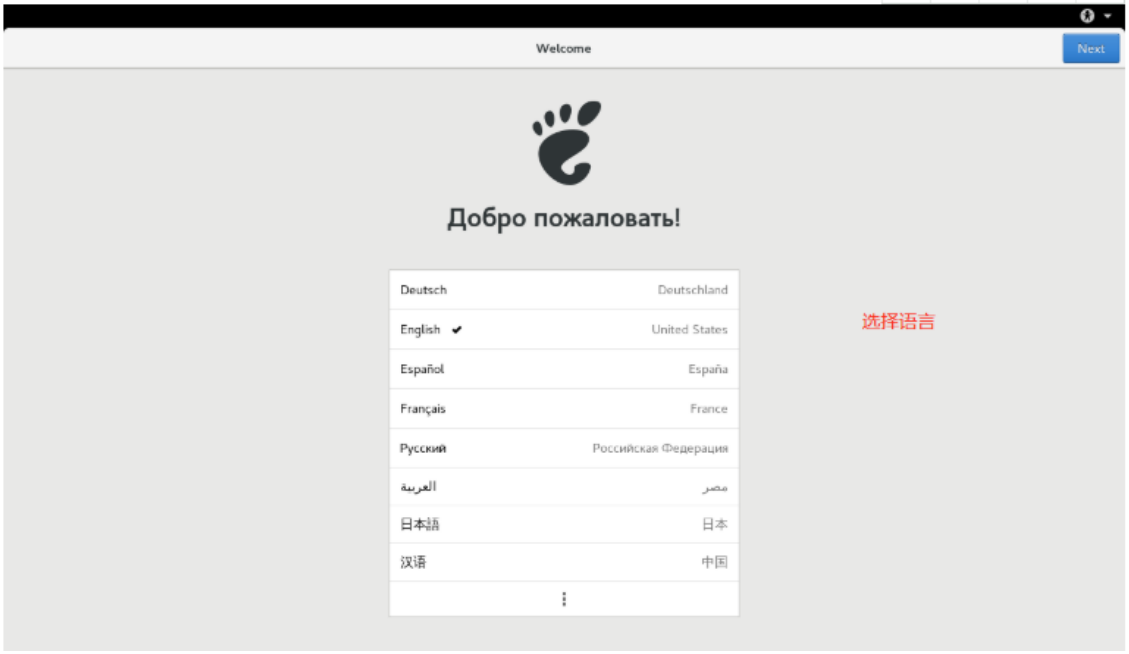
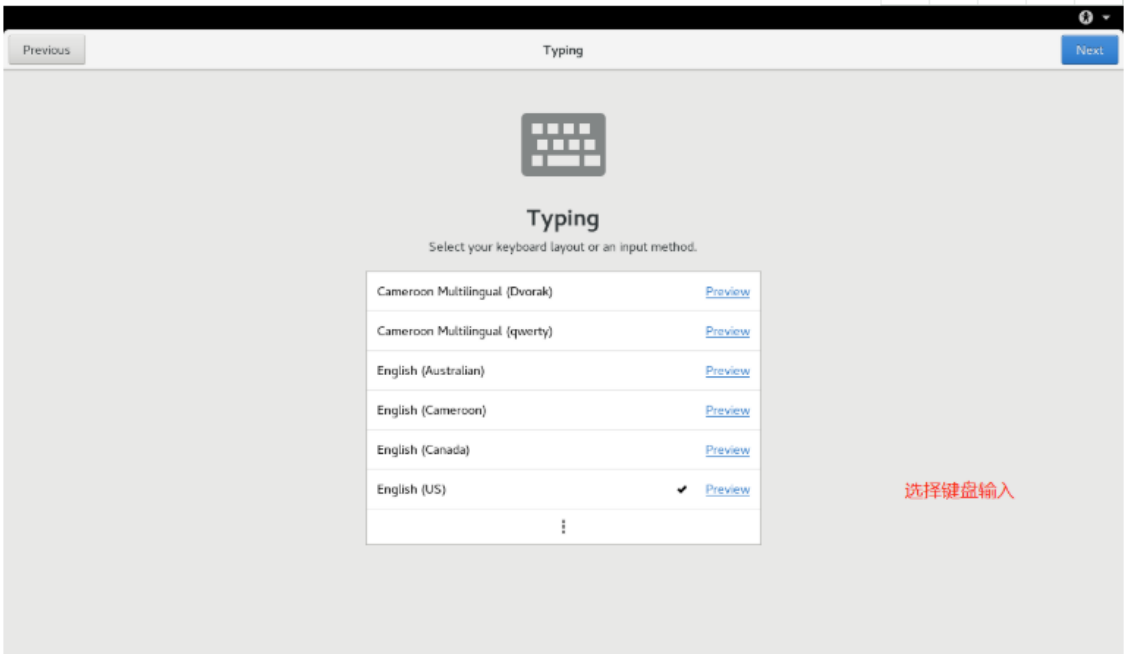
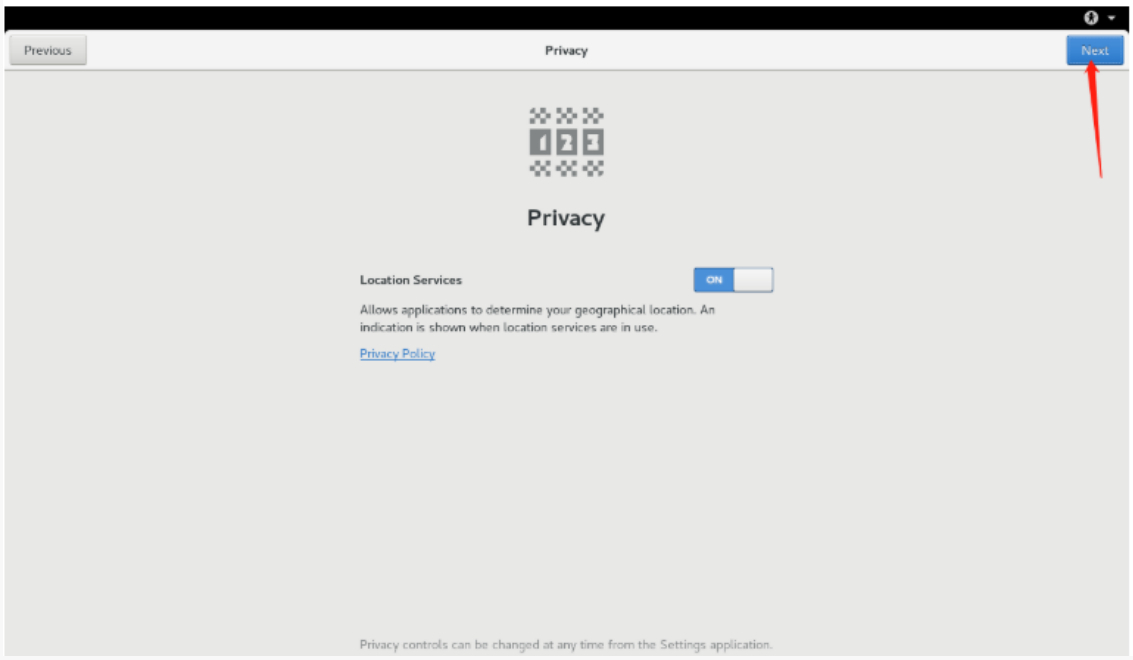

CONFIGURATION
CENTOS 7 INSTALLATION
us
Help!
CentOS
USER SETTINGS
ROOT PASSWORD
Root password is set
USER CREATION
No user will be created
重启
Complete!
CentOS is now successfully installed and ready for you to use
Go ahead and reboot to start using it
Reboot

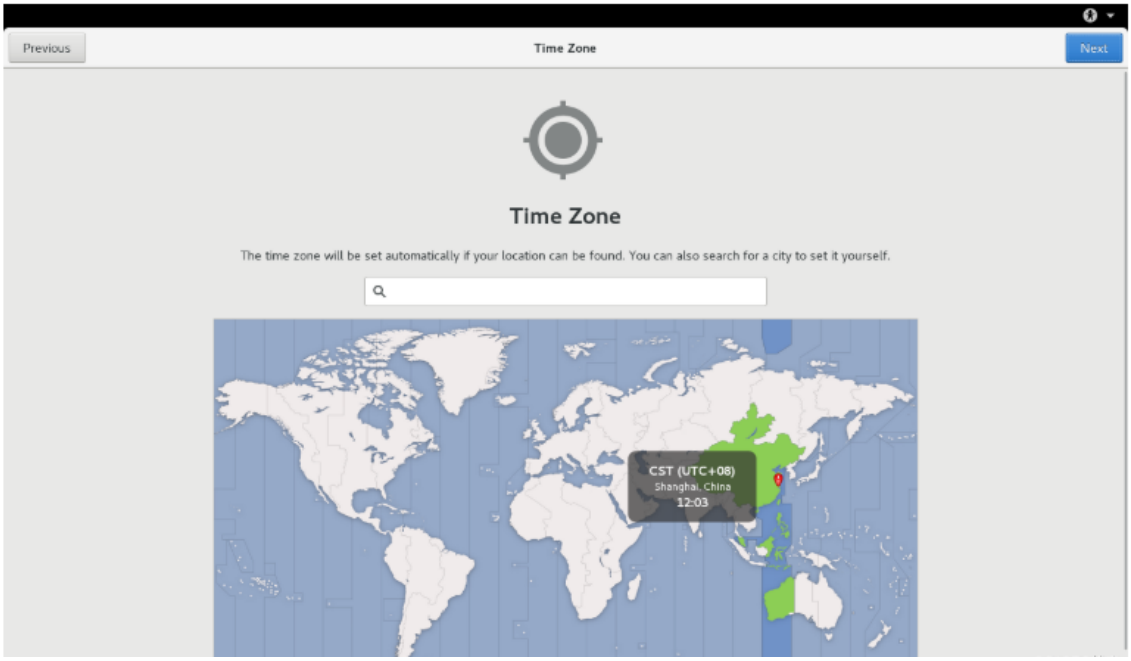

INITIAL SETUP
CENTOS LINUX 7 (CORE)
us
Help!
CentOS
LICENSING
LICENSE INFORMATION
License not accepted
SYSTEM
NETWORK & HOST NAME
Wired (ens33) connected
USER SETTINGS
USER CREATION
No user will be created
点进去接收许可协议
QUIT
FINISH CONFIGURATION

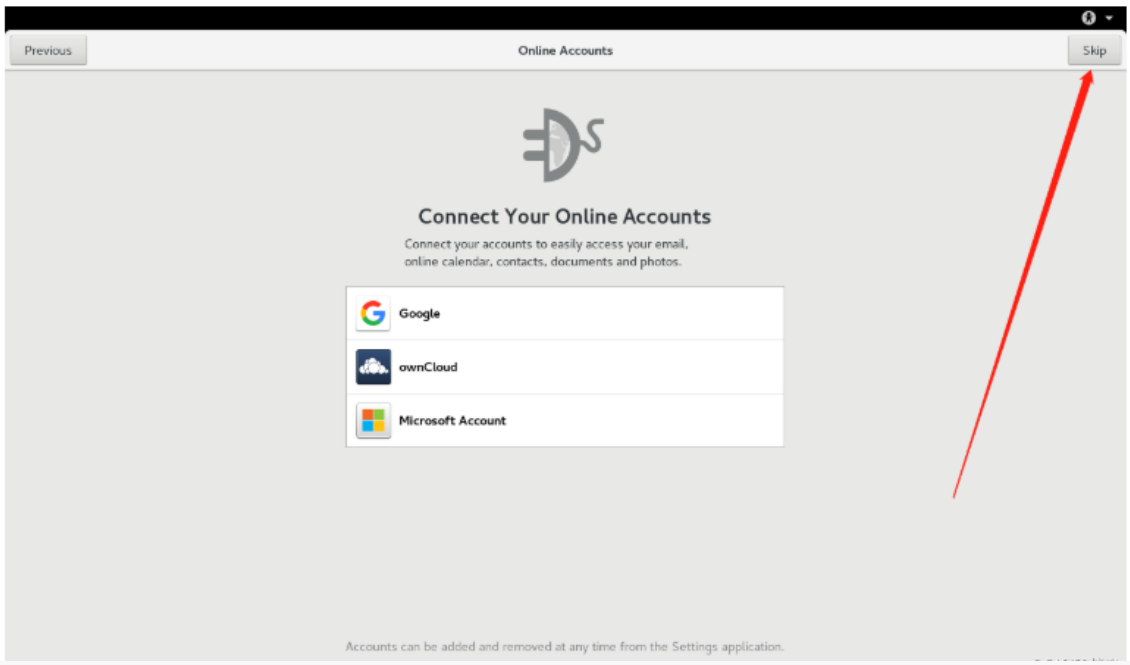

INITIAL SETUP
CENTOS LINUX 7 (CORE)
us
Help!
CentOS
LICENSING
LICENSE INFORMATION
License not accepted
SYSTEM
NETWORK & HOST NAME
Wired (ens33) connected
USER SETTINGS
USER CREATION
No user will be created
点进去接受许可协议，接受后点完成
QUIT
FINISH CONFIGURATION

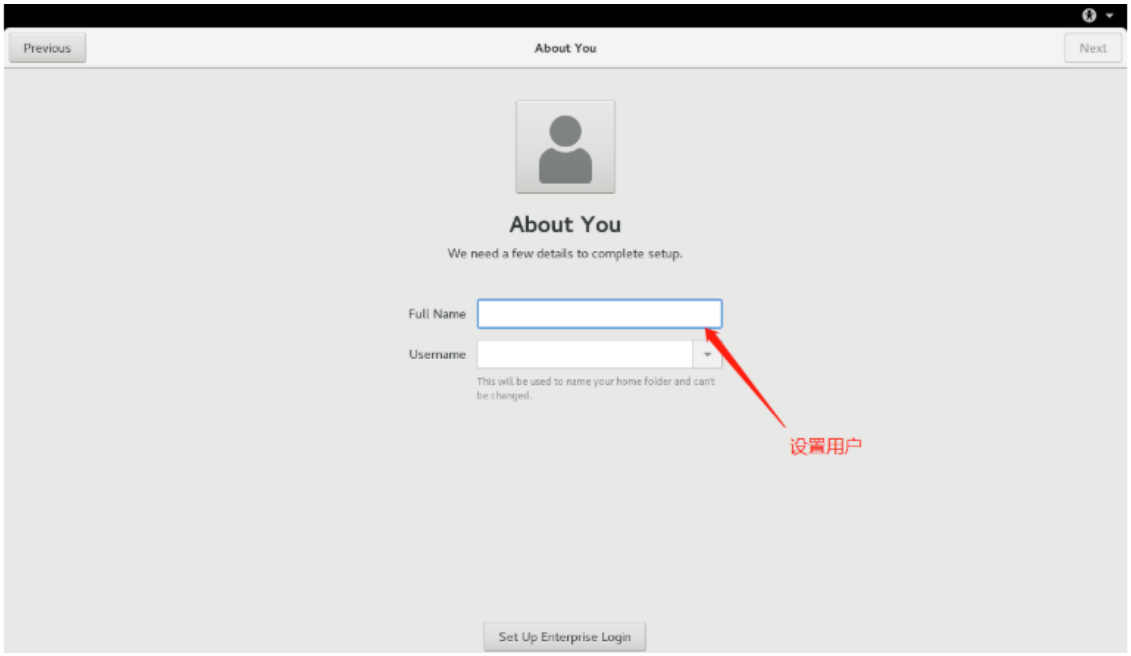

Welcome
Next
Добро пожаловать!
Deutsch Deutschland
English United States
Español España
Français France
Русский Российская Федерация
العربية مصر
日本語 日本
汉语 中国
选择语言

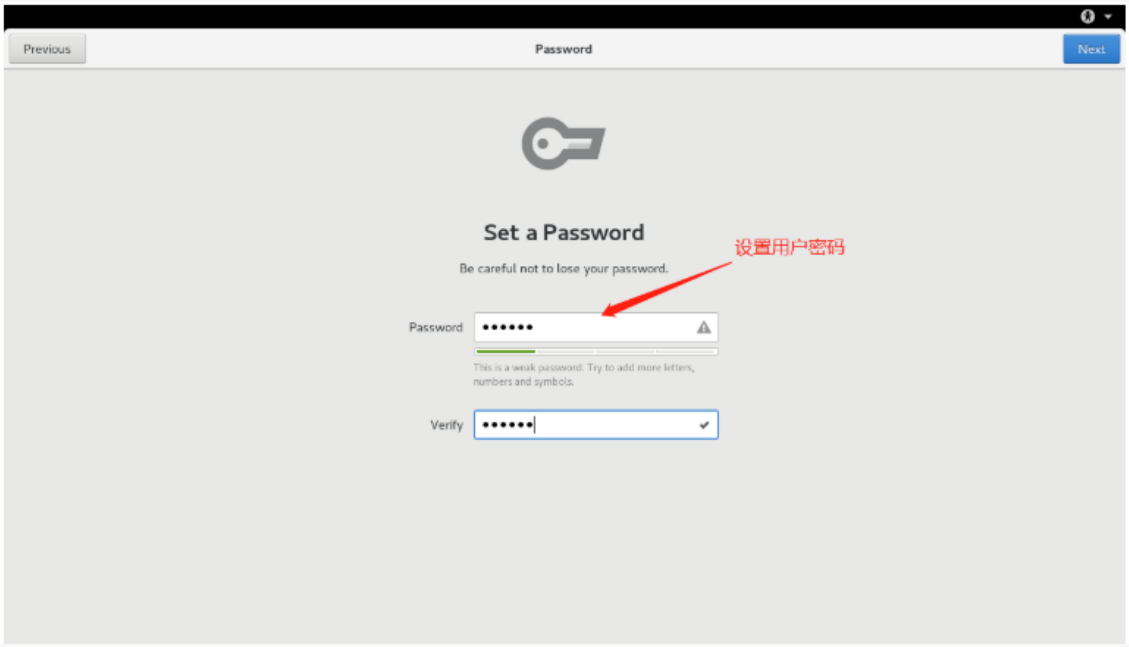

Previous
Typing
Next
Typing
Select your keyboard layout or an input method.
Cameroon Multilingual (Dvorak) Preview
Cameroon Multilingual (qwerty) Preview
English (Australian) Preview
English (Cameroon) Preview
English (Canada) Preview
English (US) Preview
选择键盘输入

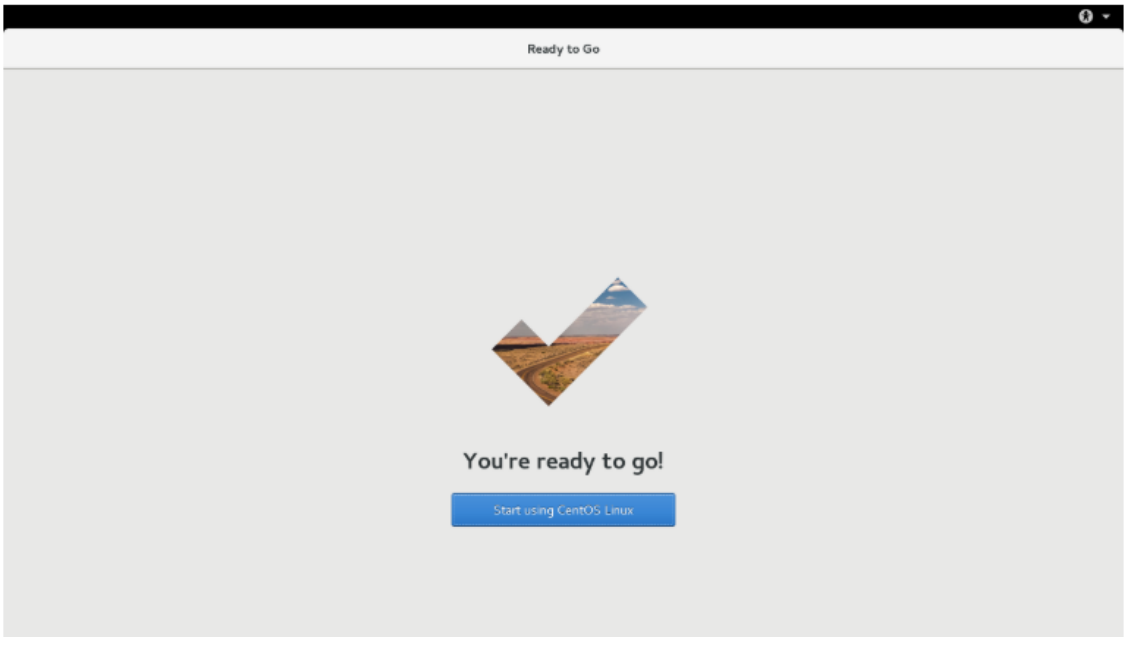

Previous
Privacy
Next
Privacy
Location Services
ON
Allows applications to determine your geographical location. An indication is shown when location services are in use.
Privacy Policy
Privacy controls can be changed at any time from the Settings application.

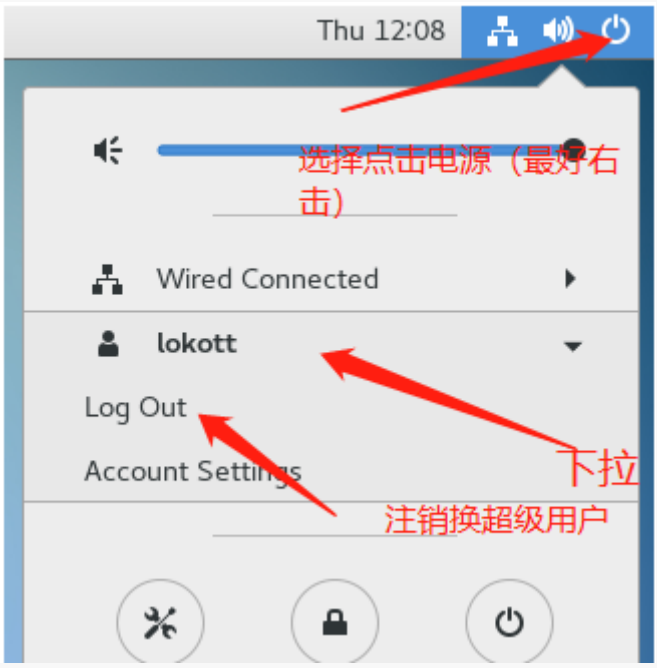

Previous
Time Zone
Next
Time Zone
The time zone will be set automatically if your location can be found. You can also search for a city to set it yourself.
CST (UTC+08)
Shanghai, China
12:03


Previous
Online Accounts
Skip
Connect Your Online Accounts
Connect your accounts to easily access your email, online calendar, contacts, documents and photos.
Google
ownCloud
Microsoft Account
Accounts can be added and removed at any time from the Settings application.

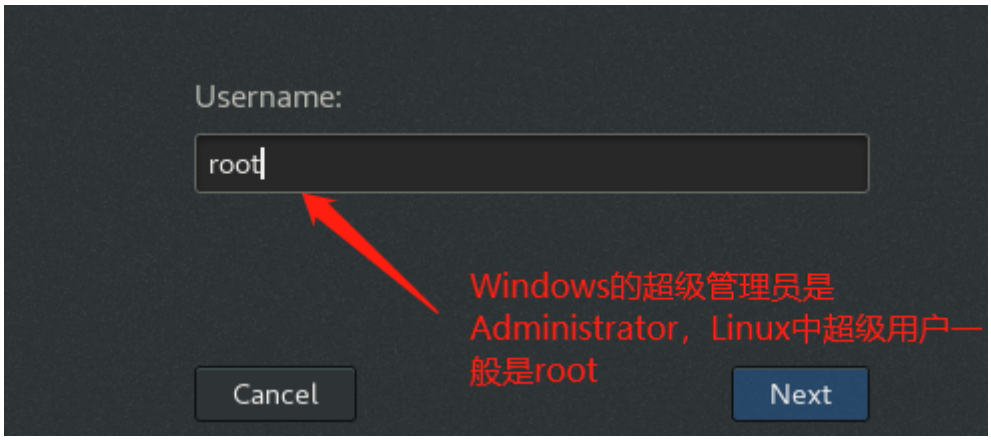

Previous
About You
Next
About You
We need a few details to complete setup.
Full Name
Username
This will be used to name your home folder and can't be changed.
设置用户
Set Up Enterprise Login

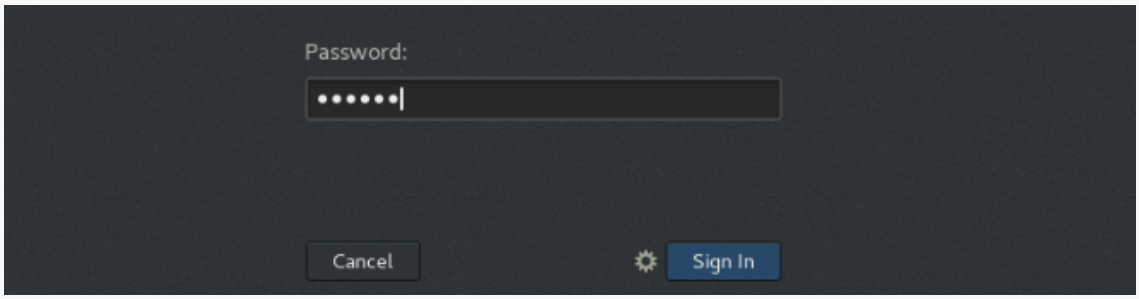

Previous
Password
Next
Set a Password
Be careful not to lose your password.
设置用户密码
Password
••••••
This is a weak password. Try to add more letters, numbers and symbols.
Verify
••••••


Ready to Go
You're ready to go!
Start using CentOS Linux


Thu 12:08
选择点击电源（最好右击）
Wired Connected
lokott
Log Out
Account Settings
下拉
注销换超级用户

lokott
Not listed?
点击Not listed


Username:
root
Windows的超级管理员是Administrator，Linux中超级用户一般是root
Cancel
Next


Password:
Cancel
Sign In

3、附注意事项

> Centos和Ubuntu之间有些命令不一样
>
> 修改网卡配置信息，命令如下：
>
> ```
> vi /etc/sysconfig/network-scripts/ifcfg-eth0
> ```
>
> DEVICE=eth0 网卡对应的设备别名，如ifcfg-eth0第一块网卡,输入命令可以查看网卡信息
>
> ```
> ifconfig
> ifconfig eth0
> ```