

# Instruction to install Ubuntu20.04 on VirtualBox

## Preparation

- The link to download the VM: <https://icloud.qd.sdu.edu.cn:7777/link/E5B8F7COB3B33A7DC400F3BABBA0650E>

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文档名称	类型	大小	修改时间
 SEED-Ubuntu20.04.zip	压缩文件	4.01GB	2023-03-08 18:36:33
 SEEDUbuntu-16.04-32bit.zip	压缩文件	3.35GB	2023-03-08 18:44:08
 SEEDUbuntu12.04.zip	压缩文件	2.15GB	2023-03-08 18:40:46

- Install the VirtualBox software. (<https://www.virtualbox.org/>)
- Default account information for this VM (User name: `seed` Password: `dees`)
- Notice: You should change the default Username to your own.(The format should be `<name>+<student ID>` (such as `LiuShuo201800130061`))**

## Step 1: Create a New VM in VirtualBox

Use **新建** to create a new virtual machine.



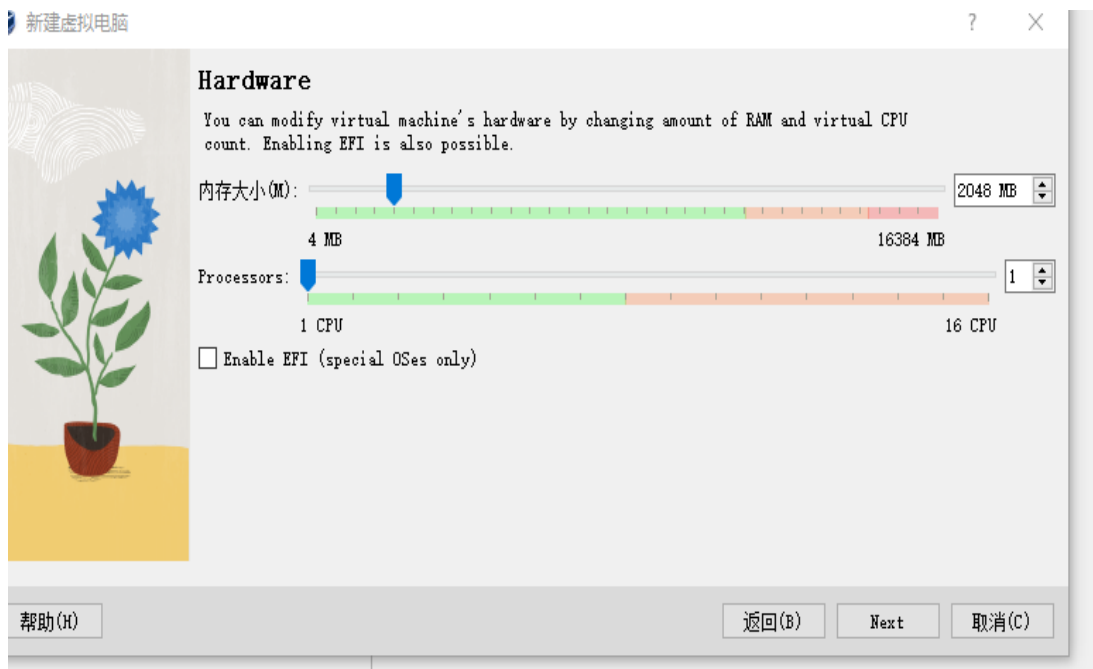
## Step 2: Provide a Name and Select the OS Type and Version

Pick Ubuntu(64-bit)



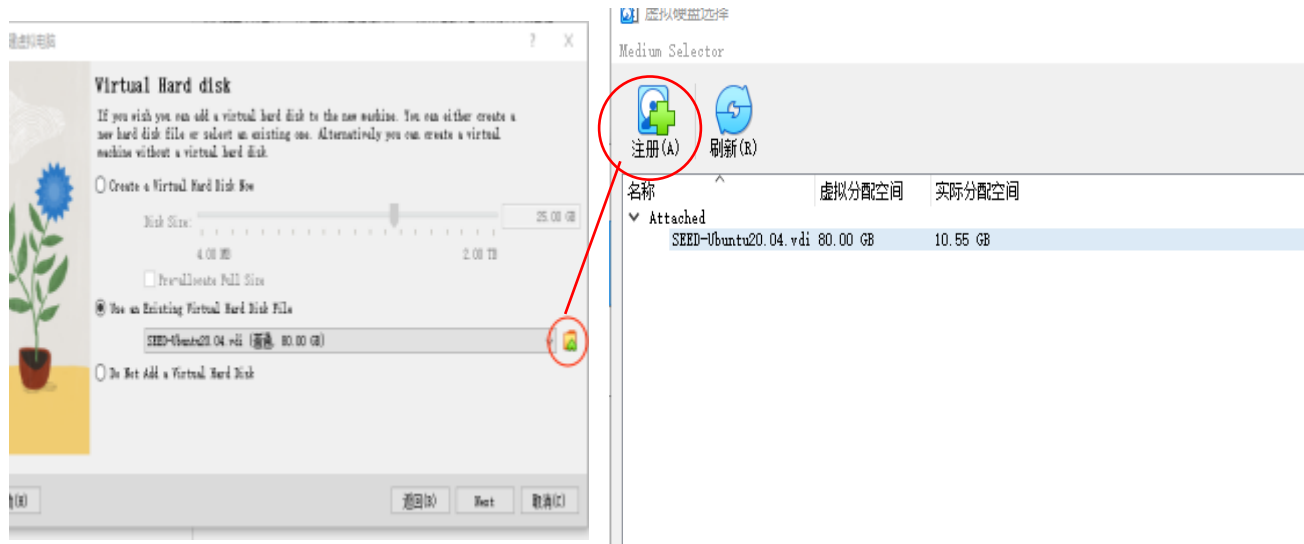
## Step 3: Set the Memory Size

We need to allocate dedicated memory for the VM. 1024 MB should be sufficient, but we recommend 2GB. If your computer has more RAM, you can increase accordingly. The more memory you give to the VM, the better the performance you will get.



## Step 4: Select the Pre-built VM File

Click the folder image. On the popup window, use the 注册 (Register) button to select the .vdi file downloaded from the SDU icloud.

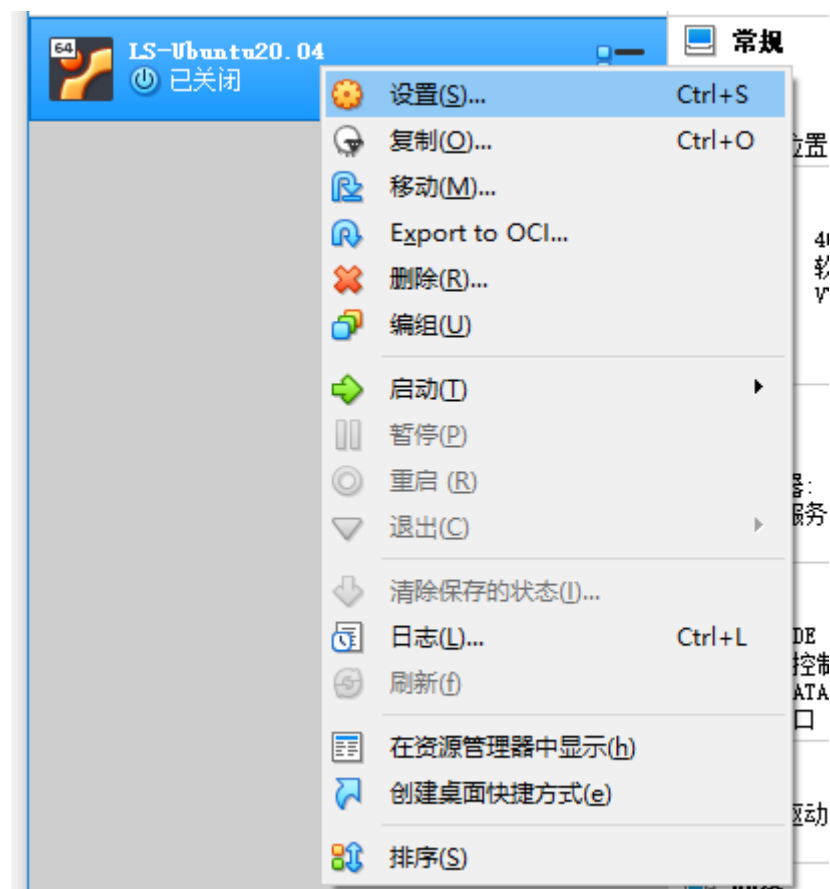


**Note:** If you get an error message saying that the UUID already exists, this is because the UUID in the selected `vd1` file is the same as the one used by an existing VM. You can either remove the other VM or [change the UUID](#) in the `vd1` file.

## Step 5: Configure the VM

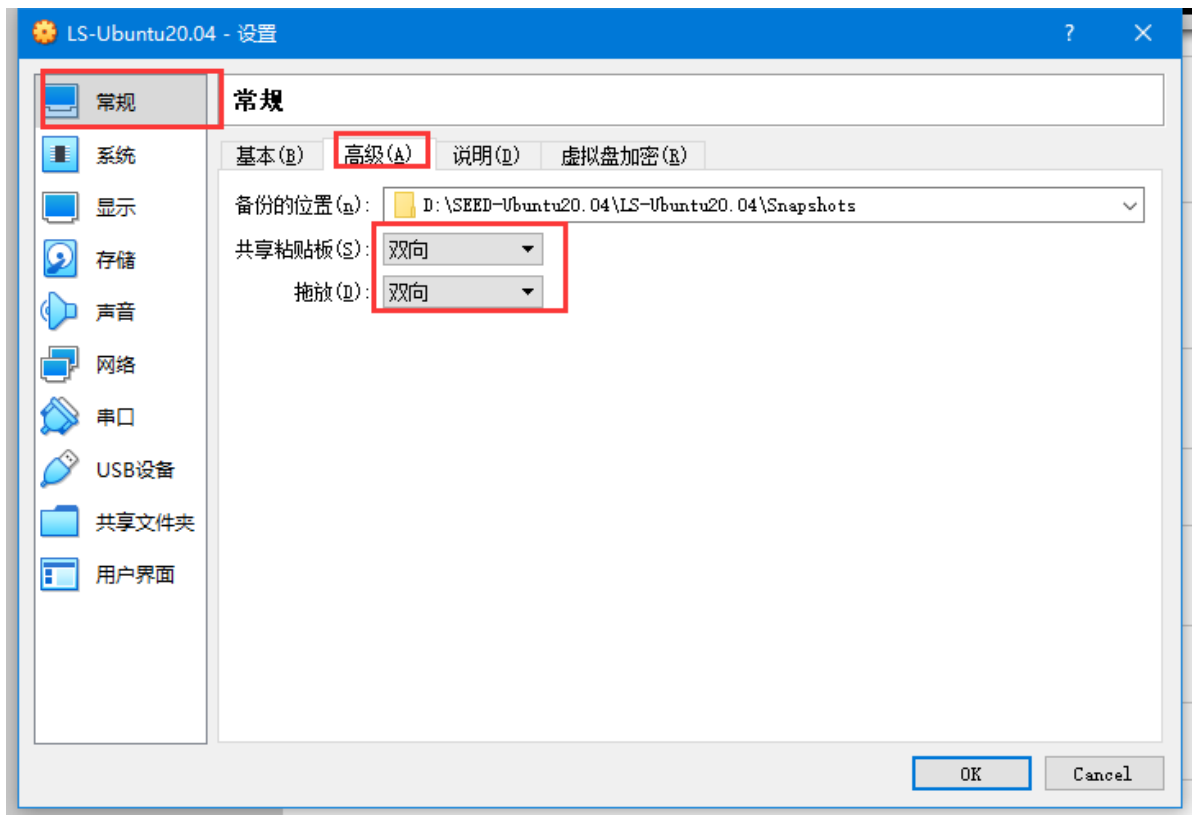
After the previous step, your VM will be created, and you will see it on VirtualBox's VM panel.

Right-click the VM, click the `设置` option, and we will see the Settings window.



## Step 5a: Enable copy and Paste

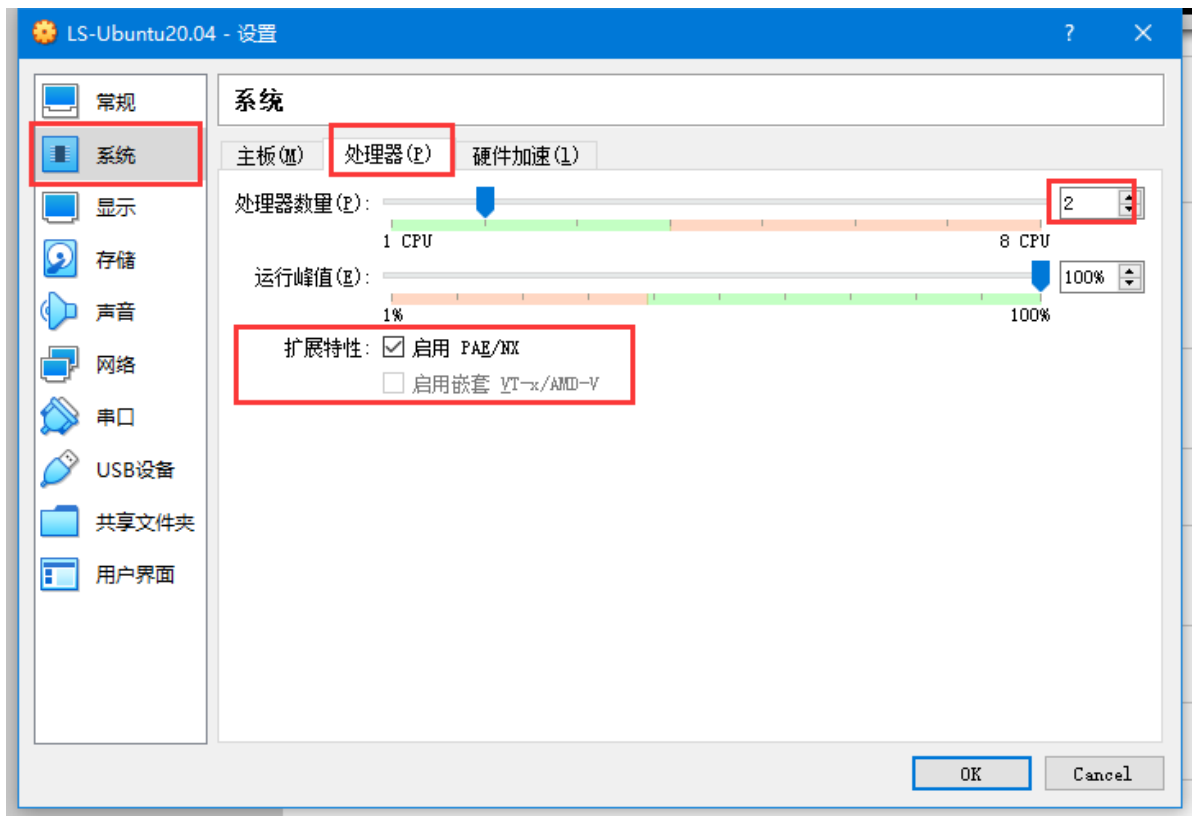
Go to the 常规 category, and select the 高级 tab. Select 双向 for both items. The first item allows users to copy and paste between the VM and the host computer. The second item allows users to transfer files between the VM and the host computer using Drag'n Drop (this feature is not always reliable).



The copy-and-paste feature is very useful. If you can't do copy and paste, chances are that you forgot to do this step. You can always do it later by selecting the 设备(D) menu item, and you will see the 共享剪贴板(S) submenu.

## Step 5b: CPUs

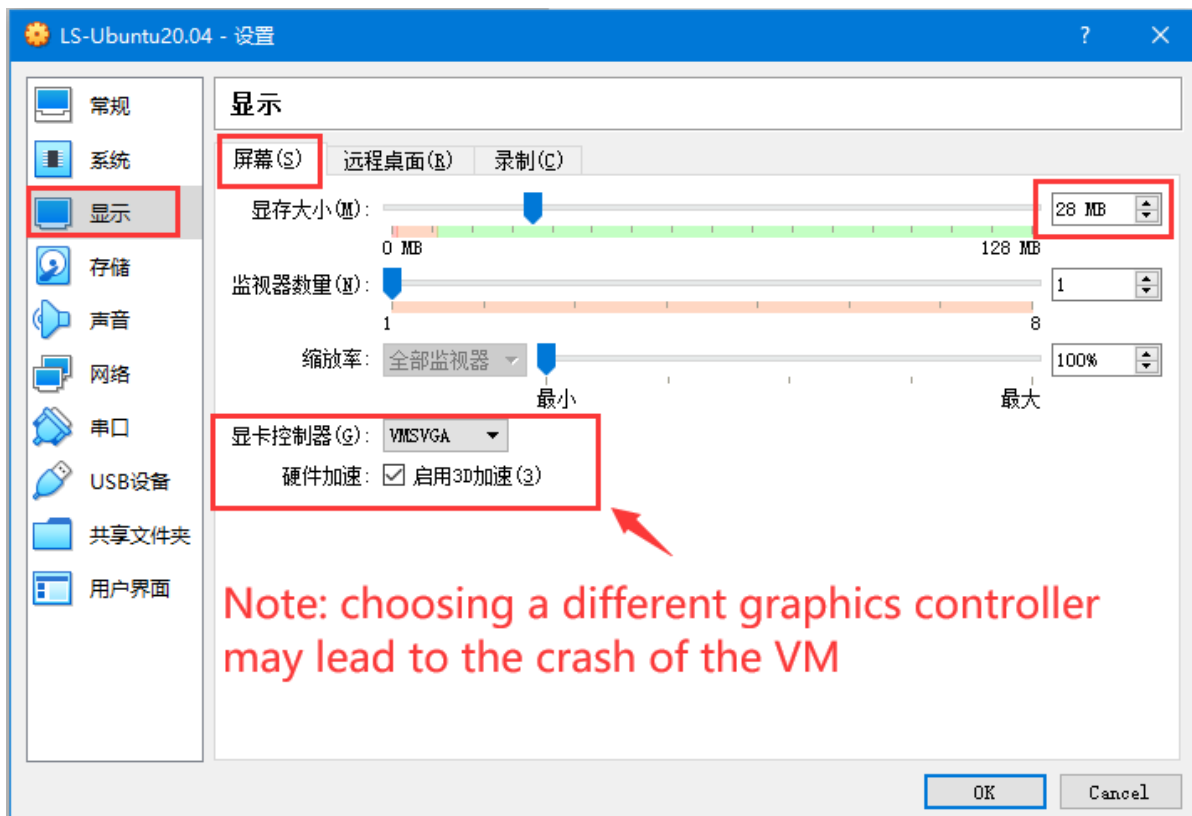
Go to the 系统 category, and select the 处理器 tab. Assign number of CPUs to this VM if you prefer. Although may be sufficient, if the performance seems to be an issue, increase the number.



**Note:** If you can't select `启用嵌套 VT-x/AMD-V`, you can look at this link([https://www.cnblogs.com/88223100/p/How\\_to\\_enable\\_Nested\\_VT-x\\_AMD-V\\_on\\_VirtualBox.html](https://www.cnblogs.com/88223100/p/How_to_enable_Nested_VT-x_AMD-V_on_VirtualBox.html)) for help.

## Step 5c: Display

Go to the `显示` category, and select the `屏幕` tab. If the display does not seem to work properly, try to increase the amount of video memory. In our testing, `28 MB` seems to be sufficient.



**Note:** choosing a different graphics controller may lead to the crash of the VM

**Note 1:** Make sure to select `VMSVGA`, as choosing other graphic controllers may lead to the crash of the VM.

**Note 2:** If your computer's screen resolution is too high, the VM may not be able to match the high resolution. As results, your VM will be very small on your screen. To make it bigger, adjust the `Scale Factor` in this setting.

## Step 5d: Network

Go to the `网络` category, and select the `网卡 1` tab. We will choose the `NAT 网络` adaptor. Click the `高级` drop-down menu to further configure the network adaptor. If you don't see such an adaptor, see the note below.



**Note:** If you don't see the `NAT Network` adaptor, you need to create one. Go to the `File` menu, click `Preferences...`. You will see a popup window. Go to the `Network` tab, and you can add a new `Nat Network` adaptor there.