Lab 2.1 Setting up Ubuntu Linux with VMWare Player

Overview

Linux is a great environment for programming because the tools are readily available. And, there some utilities you can only access using Linux. You have a few options for running Linux on a Windows PC:
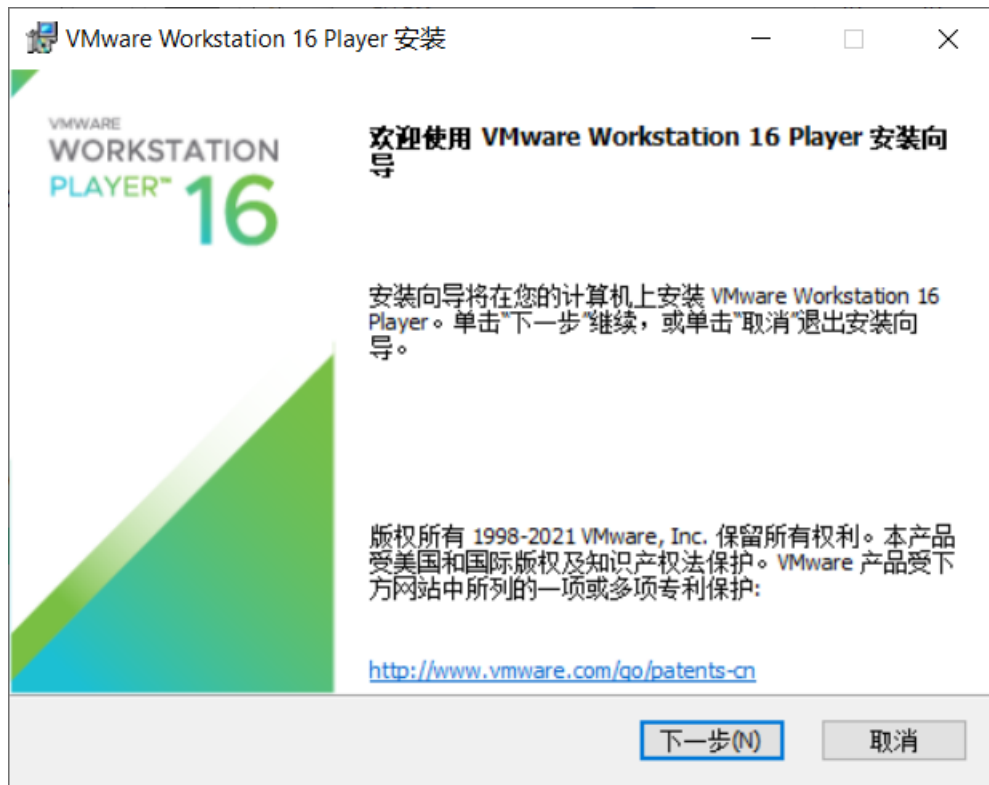
- Use Putty (or other terminal emulation software) to log into a remote Linux server via SSH.
- Run Linux on your local Windows PC. Using :
  - Dual boot computer
    - This can be time consuming to setup
    - This is good if you are doing lots of computational work or graphics
  - Use cygwin
    - People rarely do this anymore
  - Use a Linux from a bootup disk
    - This is great for certain uses
  - You can set up Linux to run in virtually using VMware player - So EASY!
    - There are other utilities you can use such as VirtualBox.
    - In our lab, we will use VMWare Player

The lab uses Ubuntu Linux.The cool thing about using VMWare Player is that you can have different flavors of Linux running (at the same time) in different players. This gives you a chance to evaluate which one you like best. Here is lab objective:

1. Setting up Ubuntu Linux with VMWare Player
2. Learn to edit a file in **vi** Text Editor.

Steps:

1. Download VMWare Player in this website (https://www.vmware.com/products/workstation-player/workstation-player-evaluation.html)
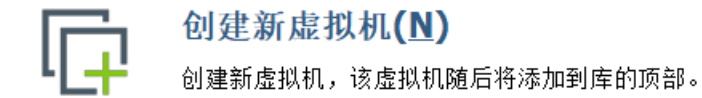   Install VMWare Player.

VMWare Workstation Player install complete.
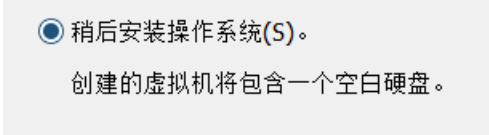
2. Download Ubuntu version 12.04 64 bit.

ubuntu-12.04.4-desktop-amd64.iso	2021/6/7 12:11	Disc Image File	750,592 KB
VMware-player-16.1.2-17966106.exe	2021/6/12 20:56	Application	220,468 KB

3. Setup Ubuntu Linux with VMWare Player
   Create New Virtual Machine

创建新虚拟机**(N)**
创建新虚拟机，该虚拟机随后将添加到库的顶部。

Next

Install the operating system later.

◉ 稍后安装操作系统(S)。

创建的虚拟机将包含一个空白硬盘。

Next

客户机操作系统

○ Microsoft Windows(W)
◉ Linux(L)
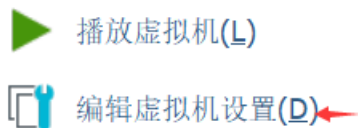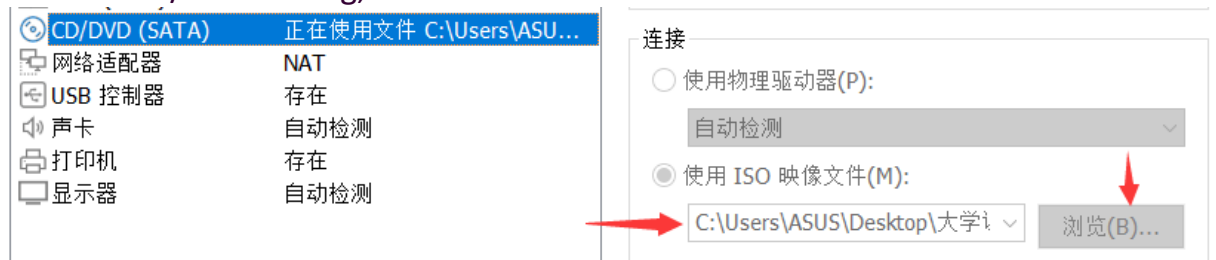○ 其他(O)

版本(V)

Ubuntu

Next…Next

After finish creating, we can see that a new virtual machine created complete.

主页

Ubuntu 12.04

Then click Ubuntu 12.04, setting up the machine.

▶ 播放虚拟机(L)

编辑虚拟机设置(D)←

Goes to CD/DVD setting, then browse the Ubuntu version 12.04.iso file.

CD/DVD (SATA)	正在使用文件 C:\Users\ASU...
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

连接

○ 使用物理驱动器(P):

自动检测

◉ 使用 ISO 映像文件(M):

C:\Users\ASUS\Desktop\大学i ∨   浏览(B)…

Browse this file and the setting is completed.

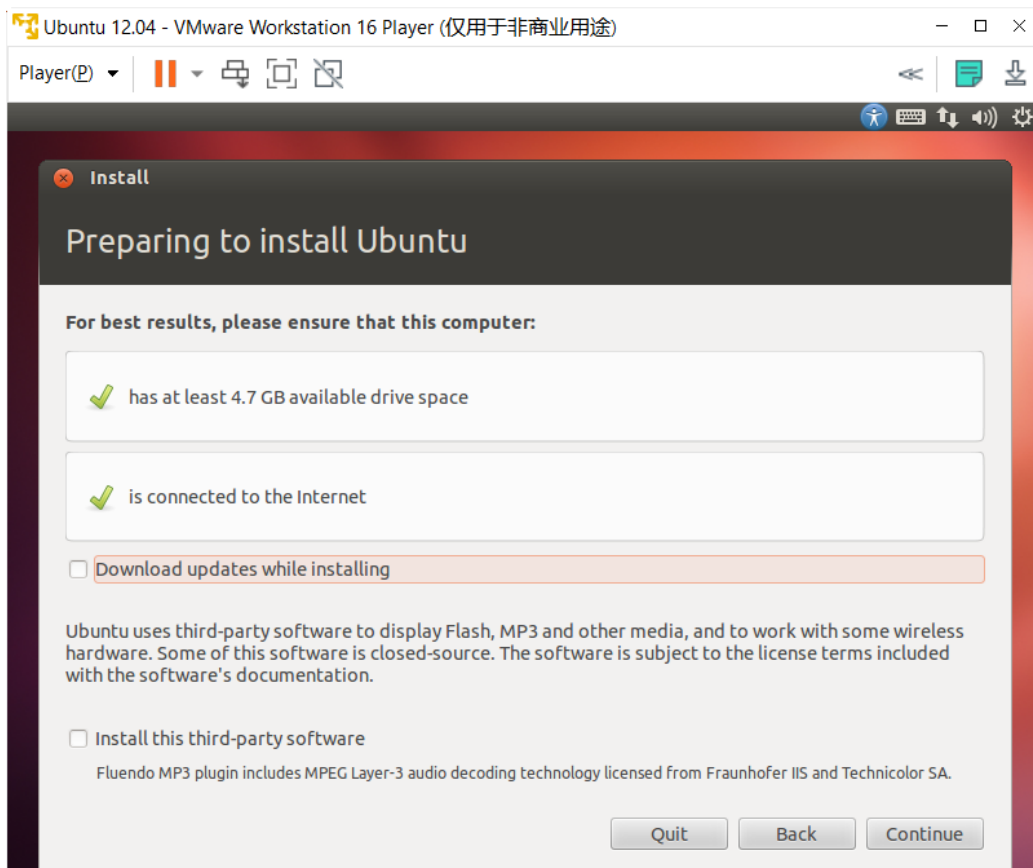ubuntu-12.04.4-desktop-amd64.iso   2021/6/7 12:11   Disc Image File   750,592 KB

Then, double click Ubuntu 12.04 and start to install Ubuntu.
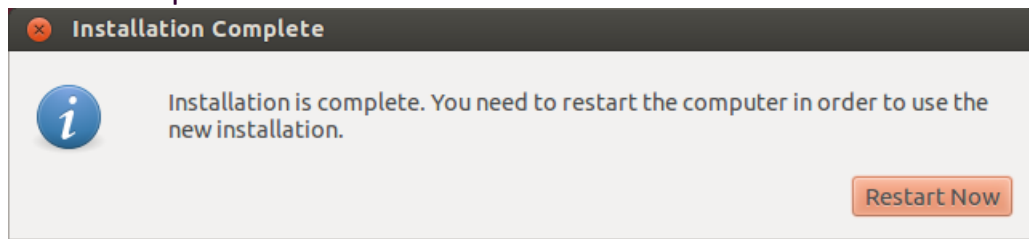
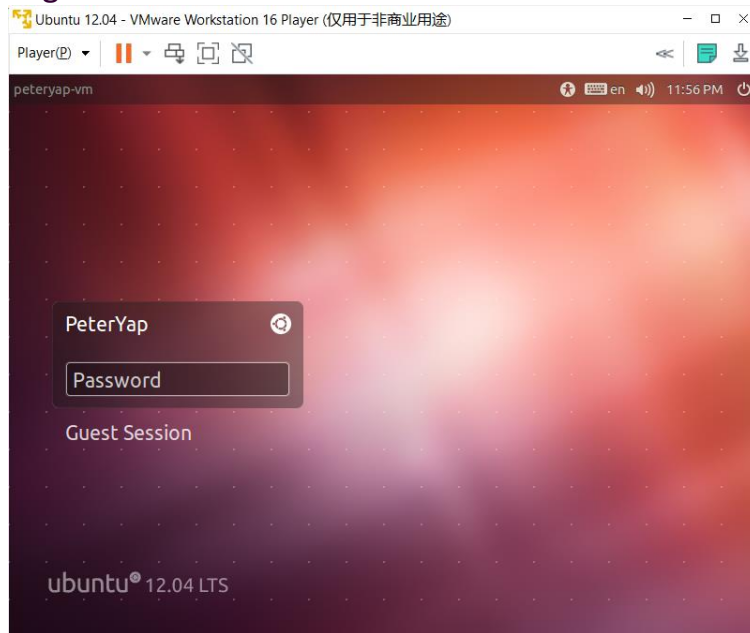After clicking, we can see this page.
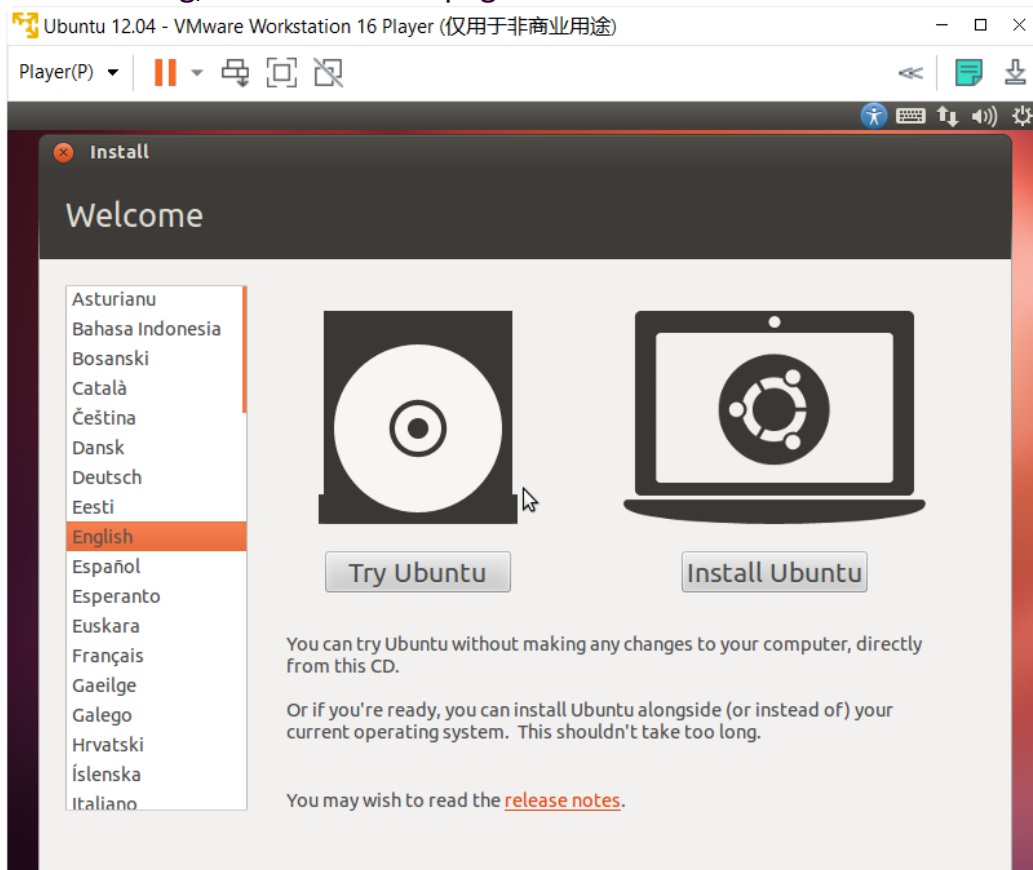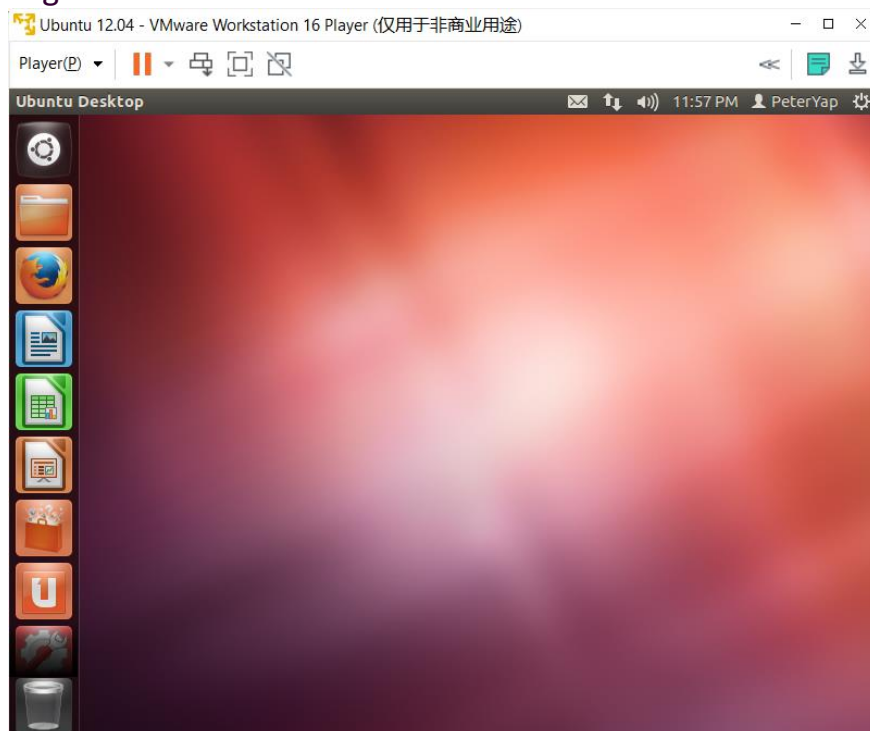

Click Install Ubuntu.
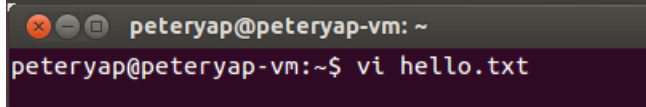
4. Install Complete
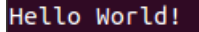

5. Login into Ubuntu

6. Login Successful

7. Open terminal, insert command with vi hello.txt in the terminal to create hello.txt file.
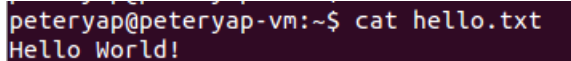
```
peteryap@peteryap-vm: ~
peteryap@peteryap-vm:~$ vi hello.txt
```

8. Press key 'i' to switch to Insert mode, type "Hello World!" in the text editor. Then, press Esc key and type :wq , the hello.txt file is saved and exit.

```
Hello World!
```

9. We can type "cat hello.txt" in the terminal to see the text in the hello.txt file

```
peteryap@peteryap-vm:~$ cat hello.txt
Hello World!
```