OS

Download Ubuntu on the Virtualbox

Version: Ubuntu 20.04.4 LTS & VirtualBox 6.1   2019.03.03

01 Download VirtualBox

https://www.virtualbox.org/

01 Download VirtualBox 6.1

02 VirtualBox 6.0 platform packages (Choose your system)

STEP 5. Download

STEP 6. Finish

Open VirtualBox

02

Download Ubuntu

https://www.ubuntu.com/download/desktop
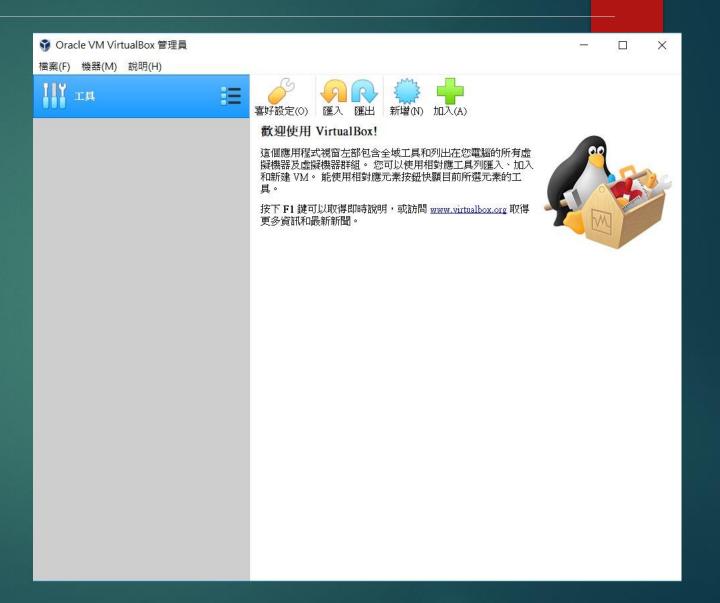
下載 DOWNLOAD

Ubuntu for desktop

20.04.2LTS(Support to April,2023)

64bit version

32-bit PowerPC Support Dropped

- The **powerpc** port is not included in the 18.04 release. See announcement for details.
- **ppc64el** support support continues as previously.

Not support for 32bit

ReleaseNotes:

https://wiki.ubuntu.com/BionicBeaver/ReleaseNotes?_ga=2.102912448.137349542.1551583243-1051982738.1551583243

Download Ubuntu Desktop

Ubuntu 20.04.4 LTS

Download the latest LTS version of Ubuntu, for desktop PCs and laptops. LTS stands for long-term support — which means five years, until April 2025, of free security and maintenance updates, guaranteed.
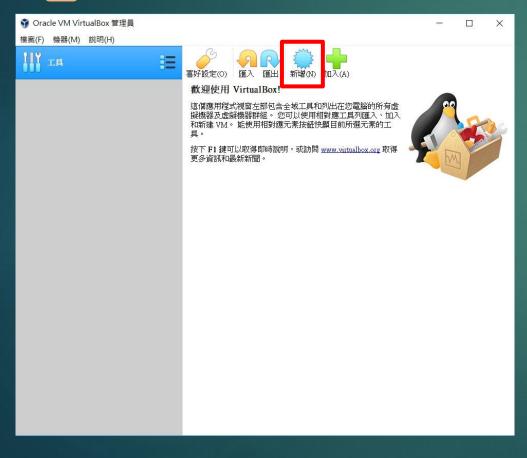
Ubuntu 20.04 LTS release notes ☑
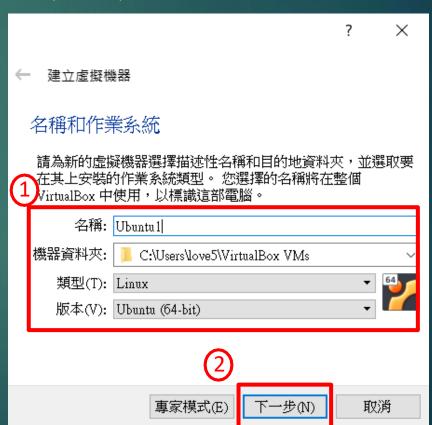
Recommended system requirements:

Download

For other versions of Ubuntu Desktop including torrents, the network installer, a list of local mirrors, and past releases see our alternative downloads.
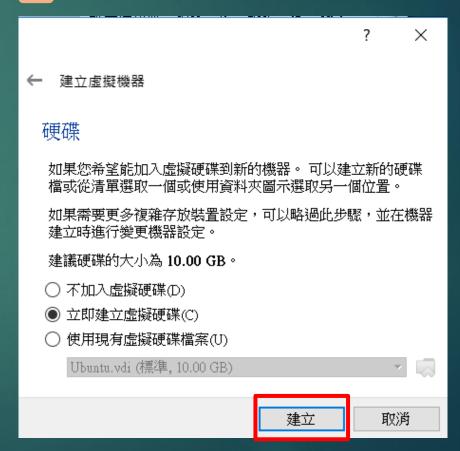
01 Add a new Virtualbox

Name：decide by yourself
Type：Linux Version：
Ubuntu(64-bit)

02
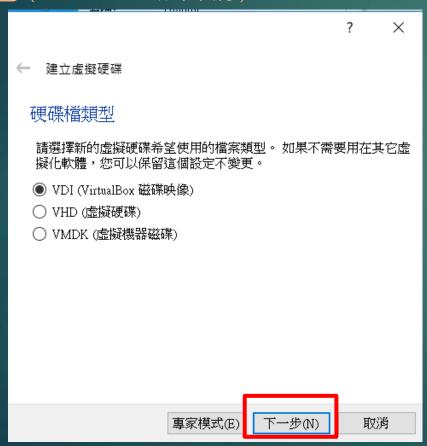
03 Choose the size of your memory

04 Create a new virtual hard drive

建立虛擬機器

記憶體大小

選取配置到虛擬機器的記憶體量 (RAM)，單位 MB。

建議的記憶體大小為 **1024**MB。

4 MB   8192 MB

Note: Choose greater than 4GB to prevent your computer from crashing

下一步(N)   取消

建立虛擬機器

硬碟

如果您希望能加入虛擬硬碟到新的機器。 可以建立新的硬碟檔或從清單選取一個或使用資料夾圖示選取另一個位置。

如果需要更多複雜存放裝置設定，可以略過此步驟，並在機器建立時進行變更機器設定。

建議硬碟的大小為 **10.00 GB**。

○ 不加入虛擬硬碟(D)
◉ 立即建立虛擬硬碟(C)
○ 使用現有虛擬硬碟檔案(U)

Ubuntu.vdi (標準, 10.00 GB)

建立   取消
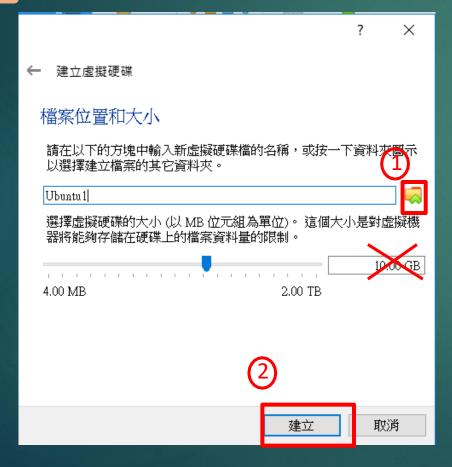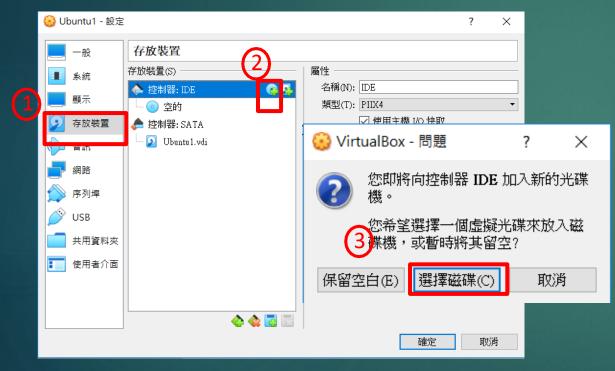
07 Choose a folder to put files of virtual hard drive

08 Right-click at the new virtual box and choose settings
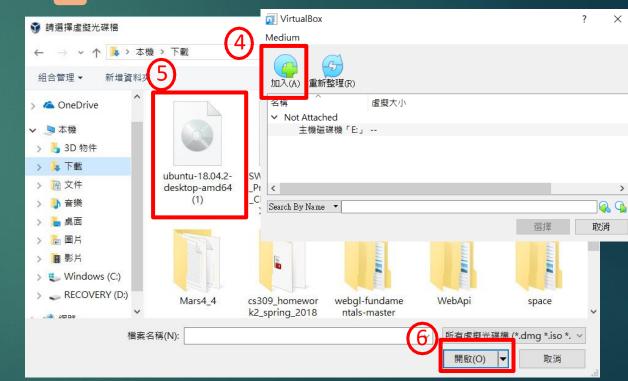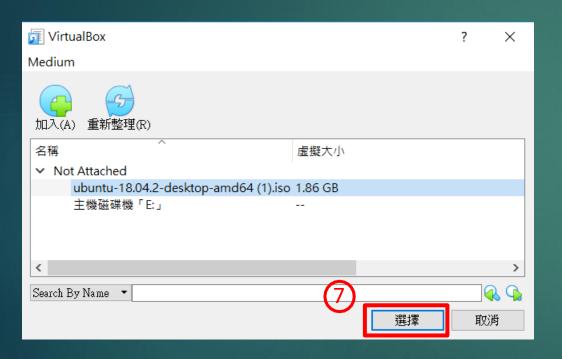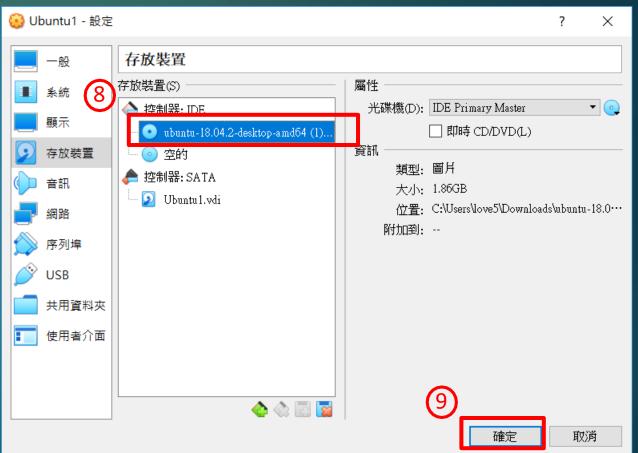
09 Add a new compact Disc，and choose disk

10 Find "Ubuntu ISO" and add it

04

Start up Ubuntu

http://blog.xuite.net/yh96301/blog/242333268-%E5%AE%89%E8%A3%9DUbuntu+14.04

步驟 STEP

01 Choose the virtualbox you want to open and click to start

02　Booting up

03 Choose the language ,and install Ubuntu

04

05 Choose to clean up your disk and download Ubuntu

06　Press continue

是否要將變更寫入磁碟中？

如果繼續的話，以下所列出的變更將會寫入磁碟之中。或者，您也可以手動來進行其它變更。

以下裝置的磁碟分割表已有所更動：
SCSI3 (0,0,0) (sda)

下列的分割區將要進行格式化：
SCSI3 (0,0,0) (sda) 的 #1 分割區，ext4
SCSI3 (0,0,0) (sda) 的 #5 分割區，swap
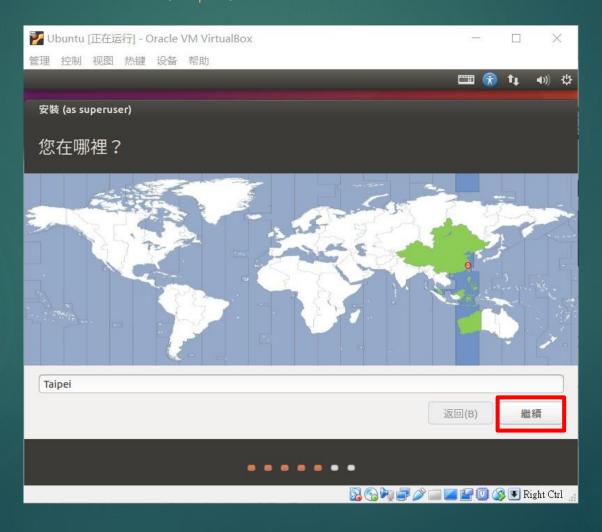
返回　繼續
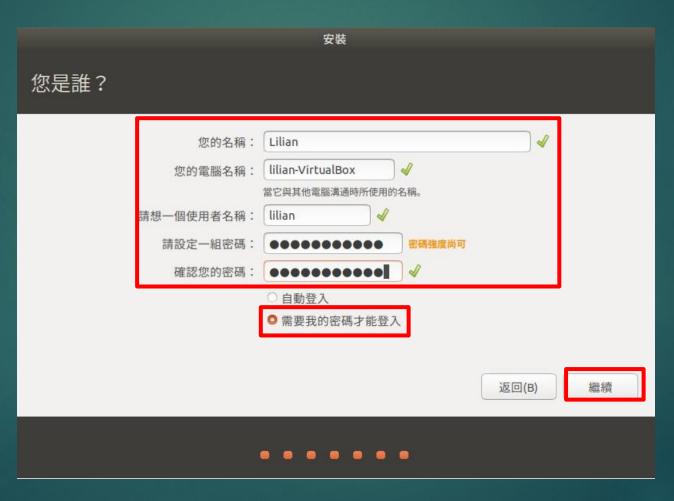
07 Choose the district(Taipei) and continue
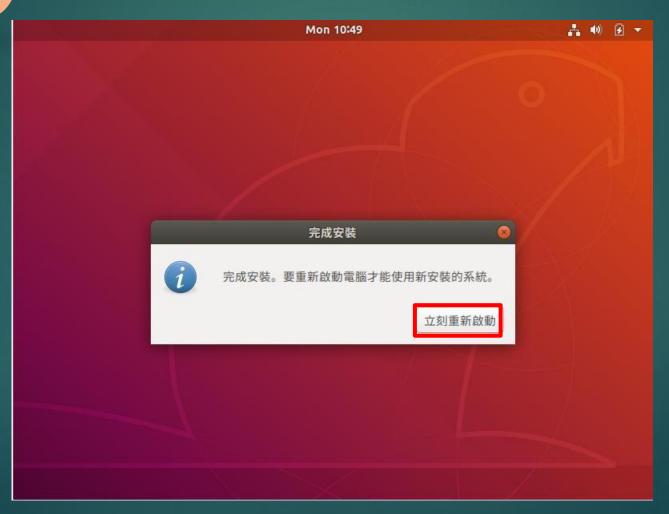
08　Input your name, computer name, user name and your password to continue

09 Installing.......
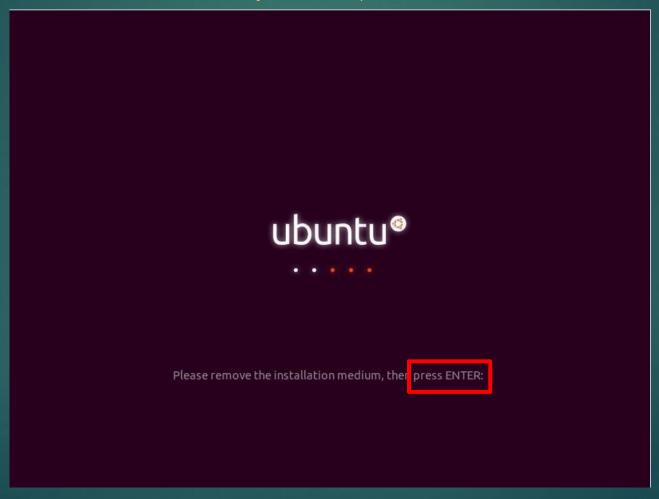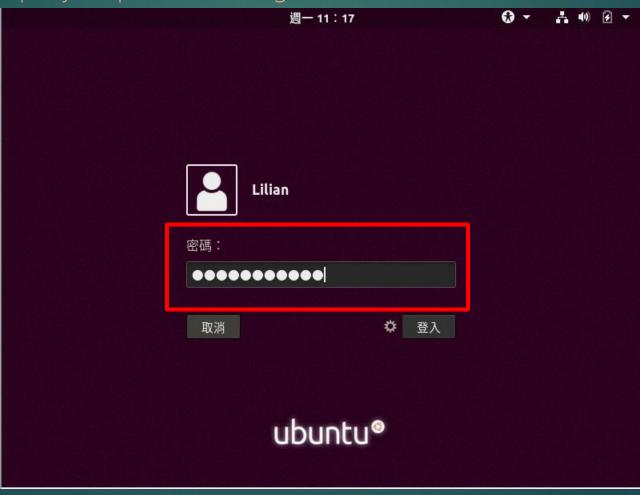
10 Click the restart button to restart your computer

11 Press Enter to restart your computer

12   Input your password to log in

13　You can click the arrow at the top-right side to turn off your computer or to log out
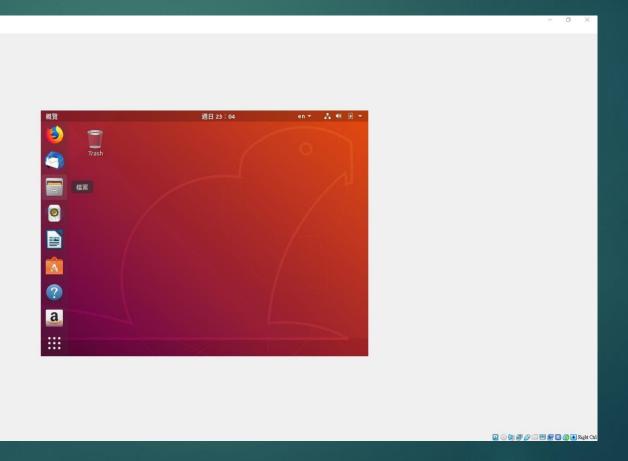
14 Now we are start to set the Guest Additions in Ubuntu

Release Notes:
https://www.tecmint.com/install-virtualbox-guest-additions-in-ubuntu/
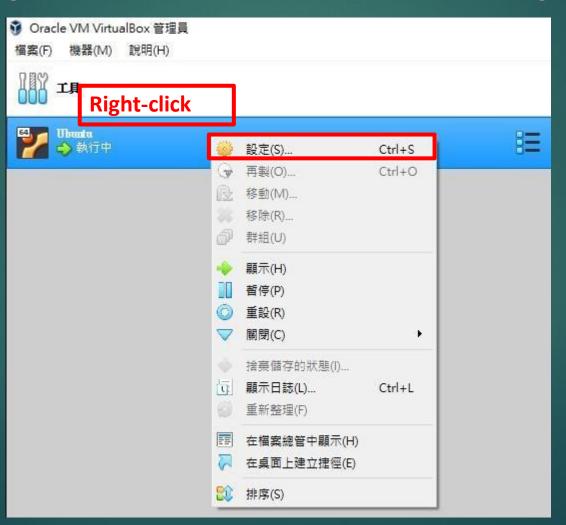
15　Updating your Ubuntu guest operating system

```
$ sudo apt update
$ sudo apt upgrade
```
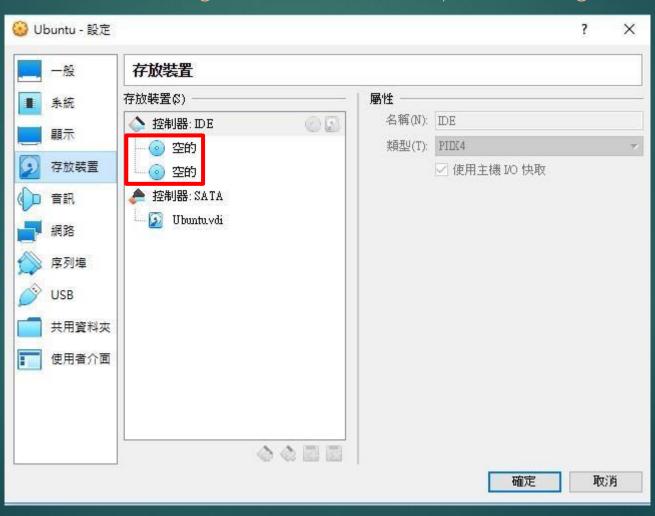
Reboot your Ubuntu guest operating system
to effect the recent upgrades and install required packages as follows.

```
$ sudo apt install build-essential dkms linux-headers-$(uname -r)
```

16　Right-click at the new virtual box and choose settings

17 Choose the storage device, and clean up all the things in the IDE

18 After you login Ubuntu，choose device，and click "Guest Additions CD"
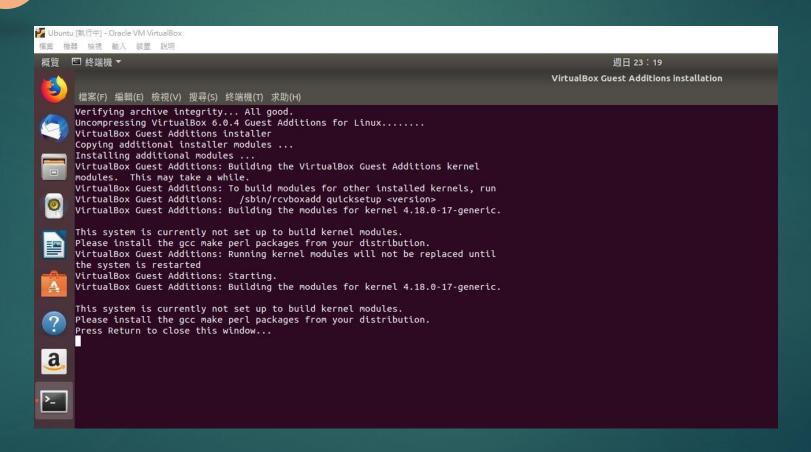
19 Click the "Run" button

20 Input your password
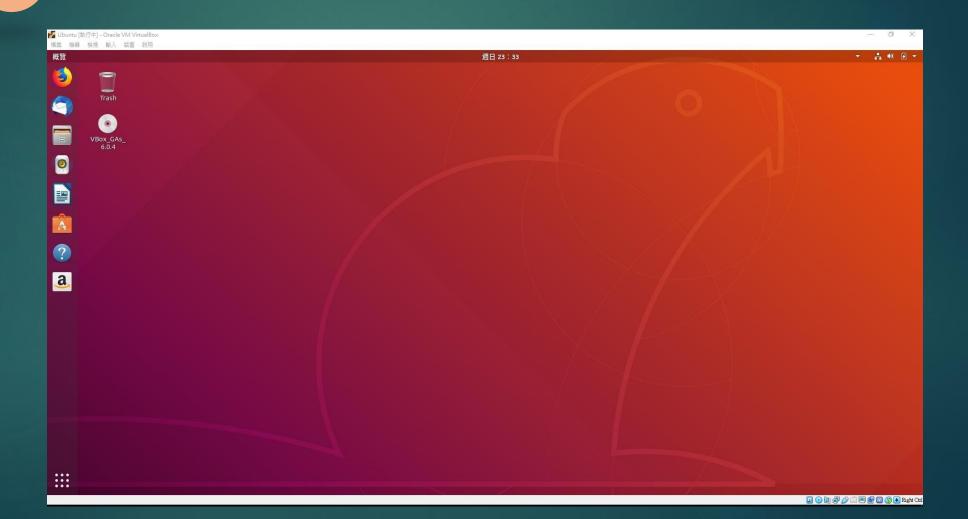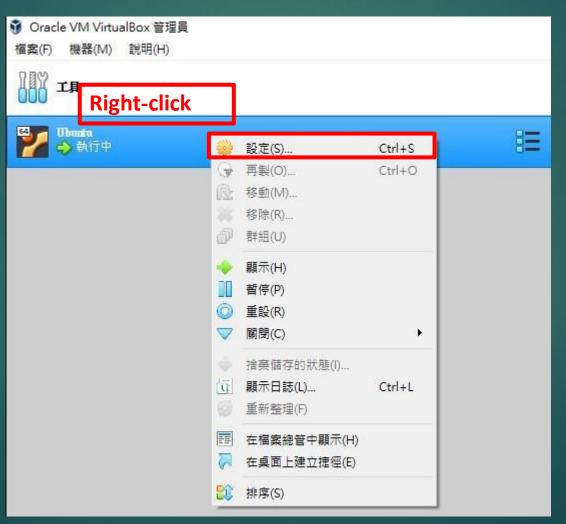
21 After finish running, press "Enter" to close the windows
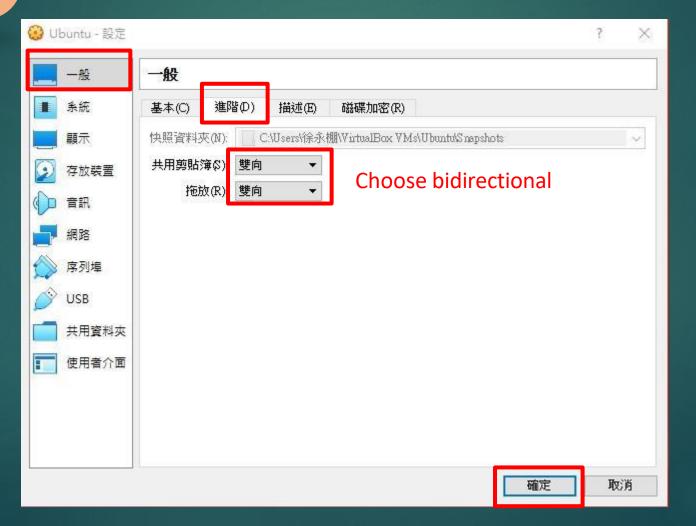
22

23 Right-click at the new virtual box and choose settings

24 Set the Guest Additions in Ubuntu

Choose bidirectional

指令 COMMAND

01

```
lilian@lilian-VirtualBox:~$ ls
下載  公共  圖片  影片  文件_ 桌面  模板  音樂
```

ls →output the name of the file in your computer

02

```
lilian@lilian-VirtualBox:~$ ll
總計 80
drwxr-xr-x 15 lilian lilian 4096  3月   4 13:37 ./
drwxr-xr-x  3 root   root   4096  3月   4 10:34 ../
-rw-------  1 lilian lilian  451  3月   4 13:37 .bash_history
-rw-r--r--  1 lilian lilian  220  3月   4 10:34 .bash_logout
-rw-r--r--  1 lilian lilian 3771  3月   4 10:34 .bashrc
drwx------ 11 lilian lilian 4096  3月   4 13:26 .cache/
drwx------ 11 lilian lilian 4096  3月   4 11:18 .config/
drwx------  3 lilian lilian 4096  3月   4 11:17 .gnupg/
-rw-------  1 lilian lilian 1086  3月   4 13:14 .ICEauthority
drwx------  3 lilian lilian 4096  3月   4 11:17 .local/
-rw-r--r--  1 lilian lilian  807  3月   4 10:34 .profile
drwxr-xr-x  2 root   root   4096  3月   4 13:27 .rpmdb/
-rw-r--r--  1 lilian lilian    0  3月   4 13:24 .sudo_as_admin_successful
drwxr-xr-x  2 lilian lilian 4096  3月   4 11:17 下載/
drwxr-xr-x  2 lilian lilian 4096  3月   4 11:17 公共/
drwxr-xr-x  2 lilian lilian 4096  3月   4 11:17 圖片/
drwxr-xr-x  2 lilian lilian 4096  3月   4 11:17 影片/
drwxr-xr-x  2 lilian lilian 4096  3月   4 11:17 文件/
drwxr-xr-x  2 lilian lilian 4096  3月   4 11:17 桌面/
drwxr-xr-x  2 lilian lilian 4096  3月   4 11:17 模板/
drwxr-xr-x  2 lilian lilian 4096  3月   4 11:17 音樂/
```

ll →more information than ls

03

```
lilian@lilian-VirtualBox:~$ ls -a
.              .bashrc     .ICEauthority  .sudo_as_admin_successful  影片  音樂
..             .cache      .local         下載                        文件
.bash_history  .config     .profile       公共                        桌面
.bash_logout   .gnupg      .rpmdb         圖片                        模板
```

ls -a →output the hidden files

04

```
lilian@lilian-VirtualBox:~$ mkdir lilian
lilian@lilian-VirtualBox:~$ ls
lilian  下載  公共  圖片  影片  文件  桌面  模板  音樂
```

mkdir folder name → create a folder

05

```
lilian@lilian-VirtualBox:~$ cd lilian
lilian@lilian-VirtualBox:~/lilian$ 
```

cd → switch the current directory

06

```
lilian@lilian-VirtualBox:~/lilian$ cd ..
lilian@lilian-VirtualBox:~$ exit
```

exit → end of the system

指令 COMMAND

copy	move	delete
cp 來源 目的	mv 來源 目的	rm 檔案名

unzip	search	zip
tar -jxv -f 檔案	tar -jtv -f 檔案	tar -jcv -f 檔案

Search command	Edit permission	compile
man 指令	chmod, chown, chgrp	gcc / g++