

# Lab 0 : 準備實驗環境

- 下載 Ubuntu 9.10 安裝光碟 ISO 檔
- 下載 WinSCP 與 PieTTY
- 下載 VirtualBox
- 安裝 VirtualBox

## Ubuntu 9.10 (Karmic Koala)

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This directory contains the most frequently downloaded Ubuntu images. Other images, including DVDs and source CDs, may be available on the [cdimage server](#). See also the [list of download mirrors](#).

### Select an image

---

Ubuntu is distributed on five types of images described below.

#### Desktop CD

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The desktop CD allows you to try Ubuntu without changing your computer at all, and at your option to install it permanently later. This type of CD is what most people will want to use. You will need at least 256MB of RAM to install from this CD.

There are two images available, each for a different type of computer:

##### [PC \(Intel x86\) desktop CD](#)

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For almost all PCs. This includes most machines with Intel/AMD/etc type processors and almost all computers that run Microsoft Windows, as well as newer Apple Macintosh systems based on Intel processors. Choose this if you are at all unsure.

##### [64-bit PC \(AMD64\) desktop CD](#)

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Choose this to take full advantage of computers based on the AMD64 or EM64T architecture (e.g., Athlon64, Opteron, EM64T Xeon, Core 2). If you have a non-64-bit processor made by AMD, or if you need full support for 32-bit code, use the Intel x86 images instead.

連線至 <http://free.nchc.org.tw/ubuntu-cd/karmic/>  
下載 Ubuntu 9.10PC (Intel x86) desktop CD

PieTTY (pputty): piaip's reimplementation of PuTTY - Mozilla Firefox

http://ntu.csie.org/~piaip/pietty/ 選單 (M) vmplayer network manager

RELATED SITES: Official PuTTY | My personal website |

# pietty

{ piaip's PieTTY Project }

» Download 下載 | Donate! | Contact | PuTTY

## PieTTY/pputty/PuTTY 是什麼?

PuTTY 是個小巧方便的 Telnet/SSH 安全遠端連線程式，但用於非英語系文字時有非常多的問題，而且它對於初學者來說過於複雜的使用界面也為人詬病已久。PieTTY 則是源自於 PuTTY，修正與完整支援亞洲等多國語系字元，並在使用界面上大幅改進、易學易用的版本。



PieTTY is a free SSH client based on PuTTY and dedicated to multilingual (especially CJK) environments, accessibility, and simpler user interface.

PieTTY 使用 MIT License, 是免費而可自由重新散佈的。更詳細的歷史或是使用上有問題請見 [FAQ](#)。關於 PieTTY 為何要支援「Unicode 補完計畫」請見 [FAQ](#)。

## Downloads 下載

Stable Release: 06/14/2005

PieTTY 0.3.27

MD5:

1533c60d6a9fda4715eaf88d89c05dc0

Known Issue 已知問題:

- 第一次使用 PieTTY 時，若直接選 PuTTY 舊設定會連線失敗。請先隨便手動打入某些 IP 並建立連線後即可正常使用。
- Esc[1;11m" 這樣的 ANSI 控制碼(關鍵在 m 後面直接加 ") 在 Big5 mode 不開 Internal UCS 會導致中文全部被折開來成 ASCII 處理 (PuTTY 也命) 不致

完成

連線至 <http://ntu.csie.org/~piaip/pietty/>  
下載 PieTTY (SSH Client)

WinSCP :: 介紹 - Mozilla Firefox

http://winscp.net/eng/docs/lang:cht

# WinSCP

Free SFTP, FTP and SCP client for Windows

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Protocols Requirements Scripting F.A.Q. Awards Screenshots Translations

History Donations

## 介紹

- 取得與安裝WinSCP
- 特色
- 檔案操作
- 遠端主機連線
- 程式操作介面

WinSCP 是在Windows中使用SSH的開放原始碼的圖形化SFTP用戶端。WinSCP同時也支援SCP通訊協定。它主要的功能是安全的在電腦間傳輸檔案。

這是一個給正體中文讀者閱讀的介紹網頁。大部分的WinSCP文件都僅提供英文；在這裡有許多連結連到這些英文說明。

取得與安裝WinSCP [Edit](#)

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完成

連線至 <http://winscp.net>  
下載 WinSCP (SFTP Client)

連線至 <http://www.virtualbox.org/wiki/Downloads>  
下載 VirtualBox 虛擬化工具



# VirtualBox

Settings Register  Help/Guide

## Download VirtualBox

Here, you will find links to VirtualBox binaries and its source code.

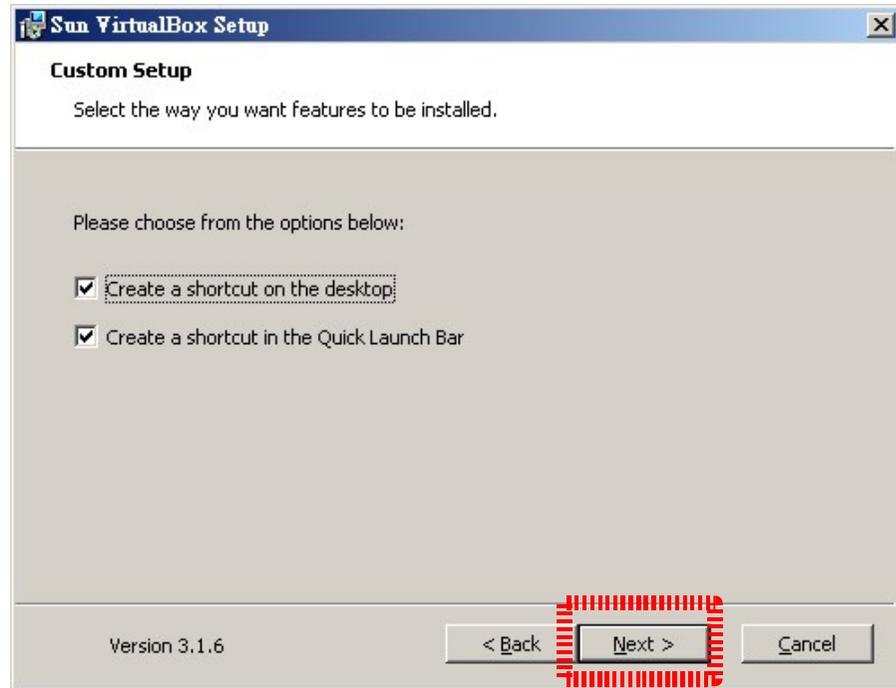
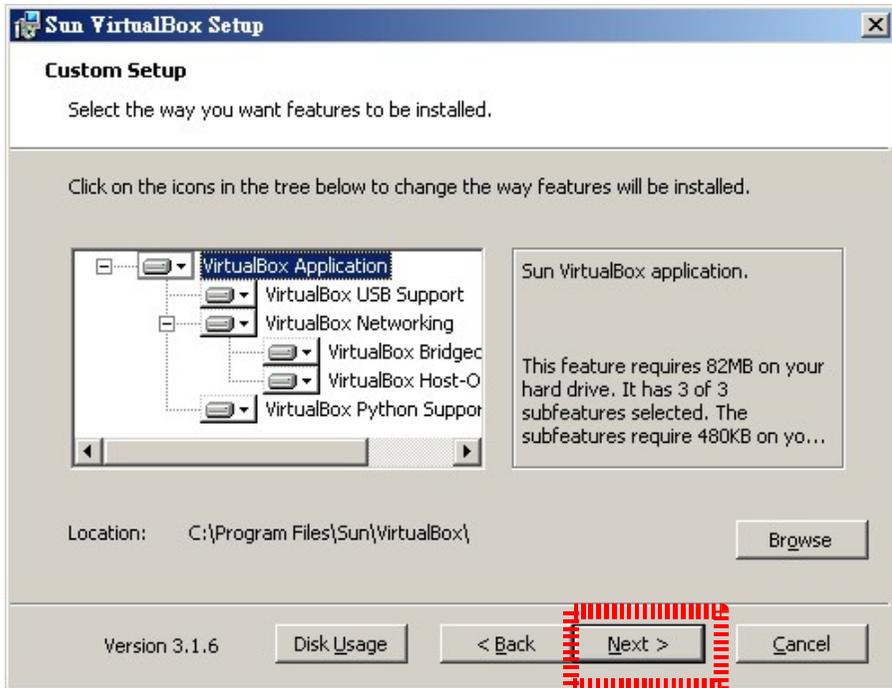
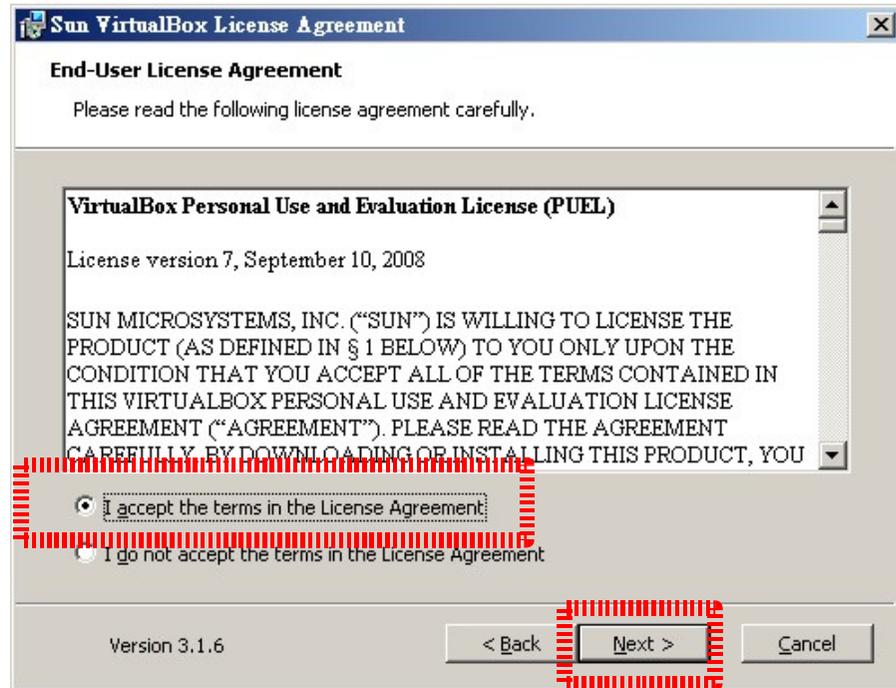
### VirtualBox binaries

The binaries in this section are all released under the [VirtualBox Personal Use and Evaluation License \(PUEL\)](#). By downloading, you agree to the terms and conditions of that license.

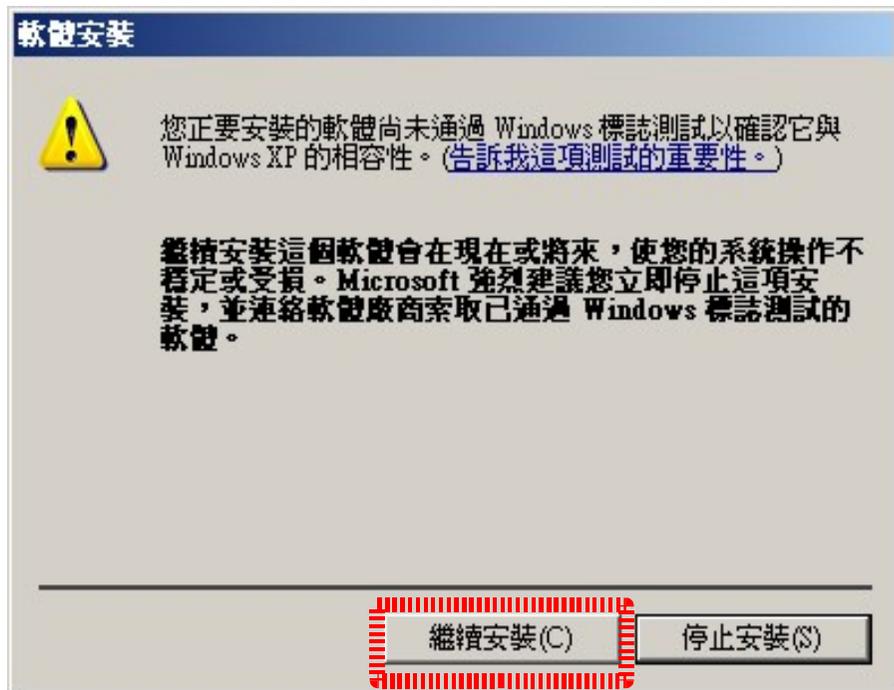
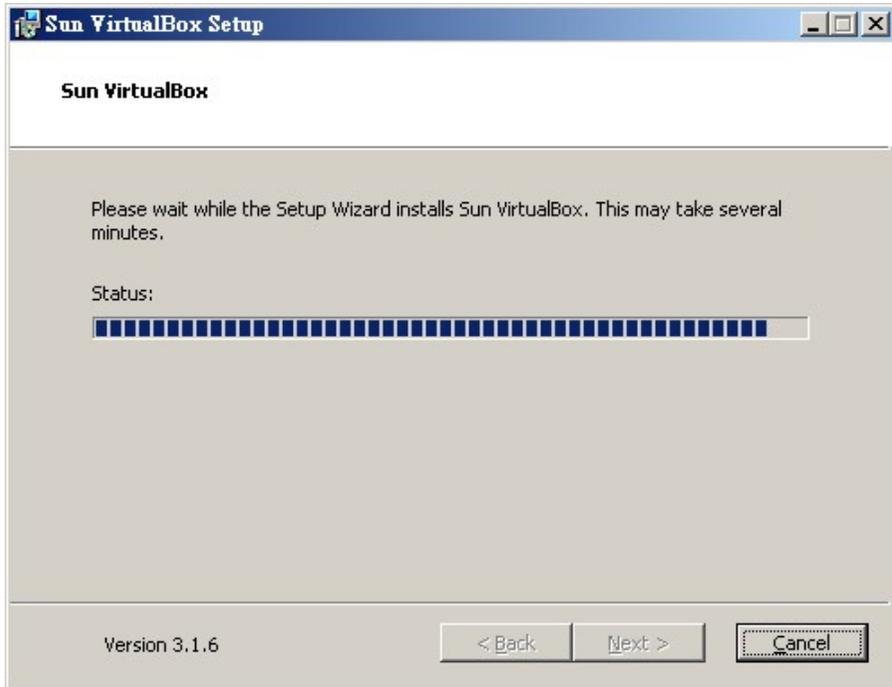
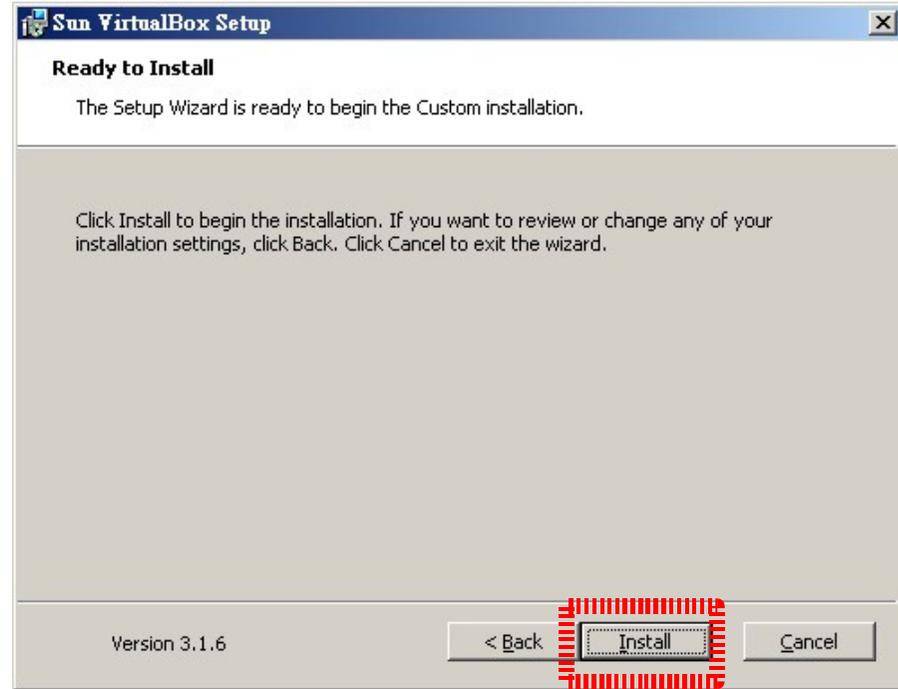
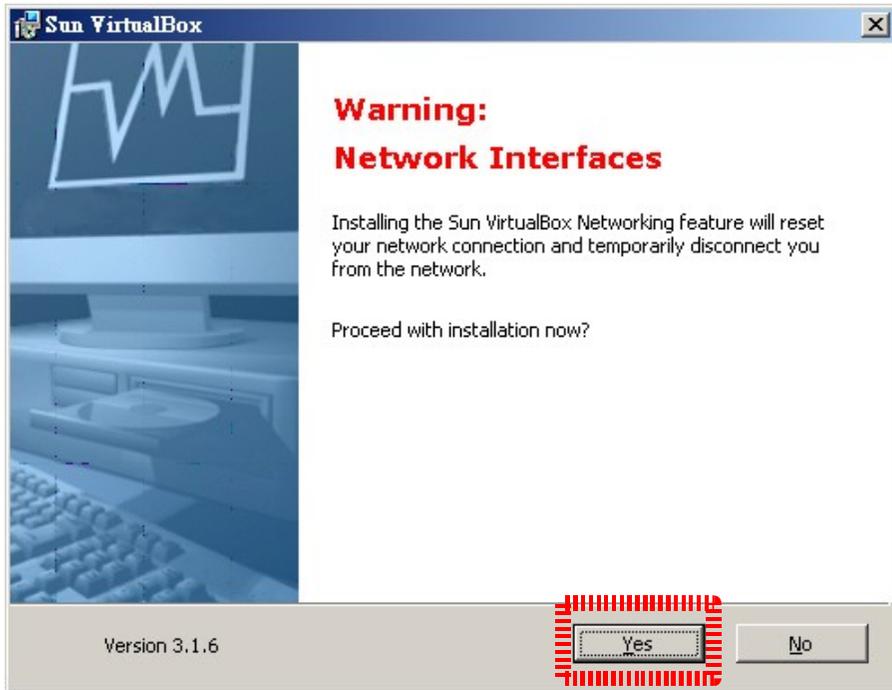
- **VirtualBox 3.1.6 for Windows hosts** ⇨ [x86/amd64](#)
- **VirtualBox 3.1.6 for OS X hosts** ⇨ [Intel Macs](#)  
*Due to an accident the original 3.1.6 Mac OS X package (build 59338) was broken. Please install the fixed package if you installed the broken package. Sorry for the inconveniences!*
- **VirtualBox 3.1.6 for Linux hosts**
- **VirtualBox 3.1.6 for Solaris and OpenSolaris hosts** ⇨ [x86/amd64](#)
- **VirtualBox 3.1.6 Software Developer Kit (SDK)** ⇨ [All platforms](#) (registration required)

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    [End-user docs](#)  
    [Technical docs](#)  
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# 安裝 VirtualBox (1)



# 安裝 VirtualBox (2)



# 安裝 VirtualBox (3)

**硬體安裝**

 您正要為這個硬體安裝的軟體:  
VirtualBox Bridged Networking Driver Miniport

尚未通過 Windows 標誌測試以確認它與 Windows XP 的相容性。(告訴我這項測試的重要性。)

**繼續安裝這個軟體會在現在或將來，使您的系統操作不穩定或受損。Microsoft 強烈建議您立即停止這項安裝，並連絡硬體廠商索取已通過 Windows 標誌測試的軟體。**

**繼續安裝(C)**   **停止安裝(S)**

**硬體安裝**

 您正要為這個硬體安裝的軟體:  
VirtualBox Host-Only Ethernet Adapter

尚未通過 Windows 標誌測試以確認它與 Windows XP 的相容性。(告訴我這項測試的重要性。)

**繼續安裝這個軟體會在現在或將來，使您的系統操作不穩定或受損。Microsoft 強烈建議您立即停止這項安裝，並連絡硬體廠商索取已通過 Windows 標誌測試的軟體。**

**繼續安裝(C)**   **停止安裝(S)**

**Sun VirtualBox Setup**

**Sun VirtualBox installation is complete.**

Click the Finish button to exit the Setup Wizard.

Start Sun VirtualBox after installation

Version 3.1.6

**Finish**

**Sun VirtualBox**

檔案(F) 機器(M) 說明(H)

新增(N) 設定值(S) 啟動(T) 捨棄(L)

詳細資料(D) 快取(S) 描述(E)

**歡迎使用 VirtualBox !**

這個視窗的左側部分是在您電腦中的所有虛擬機器清單。清單現在是空的因為您尚未建立任何虛擬機器。

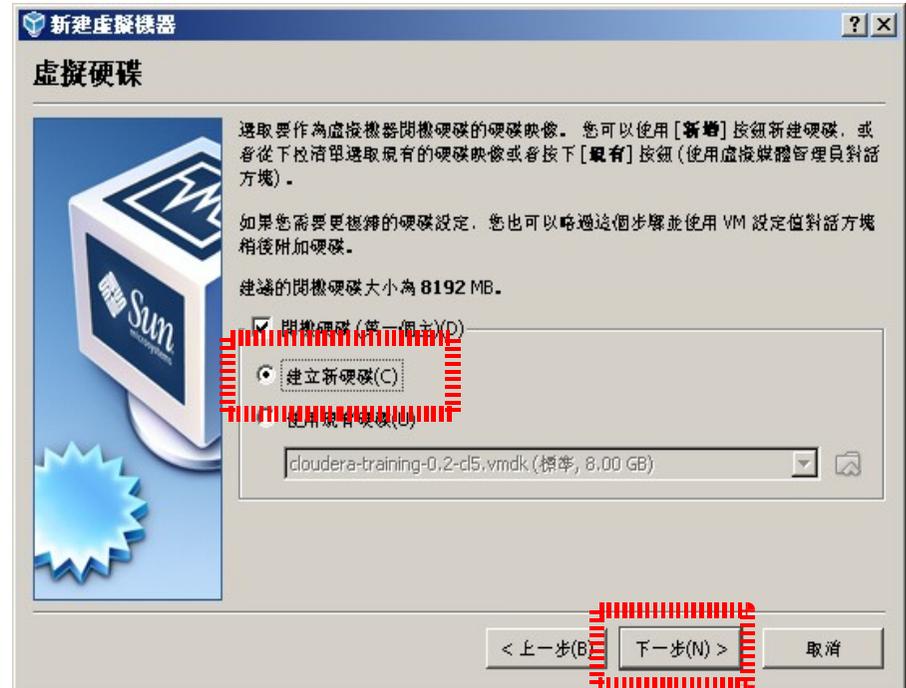
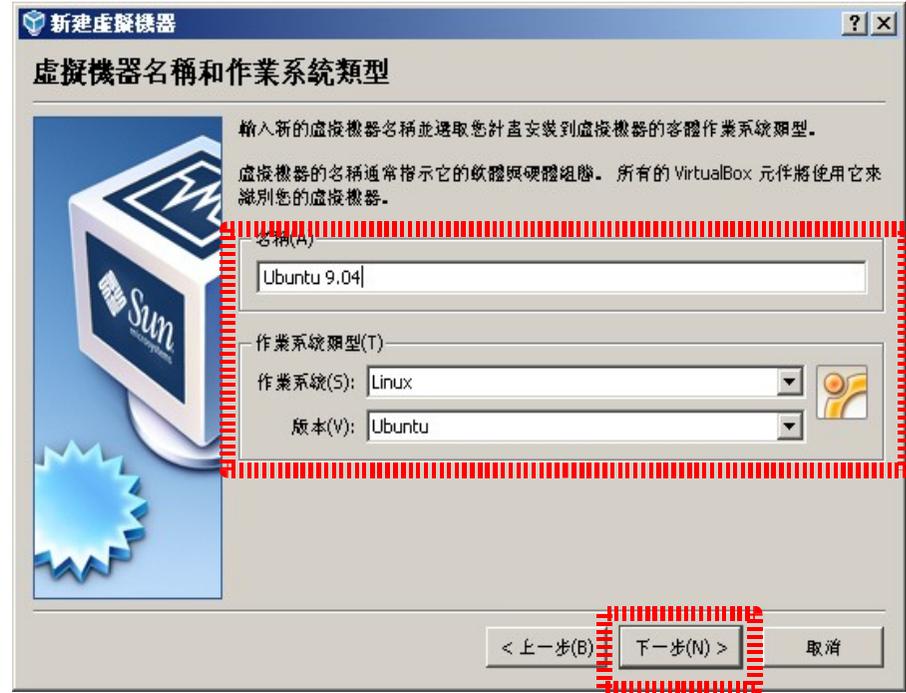
為了新建虛擬機器，在視窗上方位置的主工具列按下 **[新增]** 按鈕。

您可以按下 **[F1]** 按鍵取得即時說明，或訪問 [www.virtualbox.org](http://www.virtualbox.org) 取得最新資訊與新聞。

刪除選取的虛擬機器

# Lab 1 : 安裝 Ubuntu 9.10 GNU/Linux

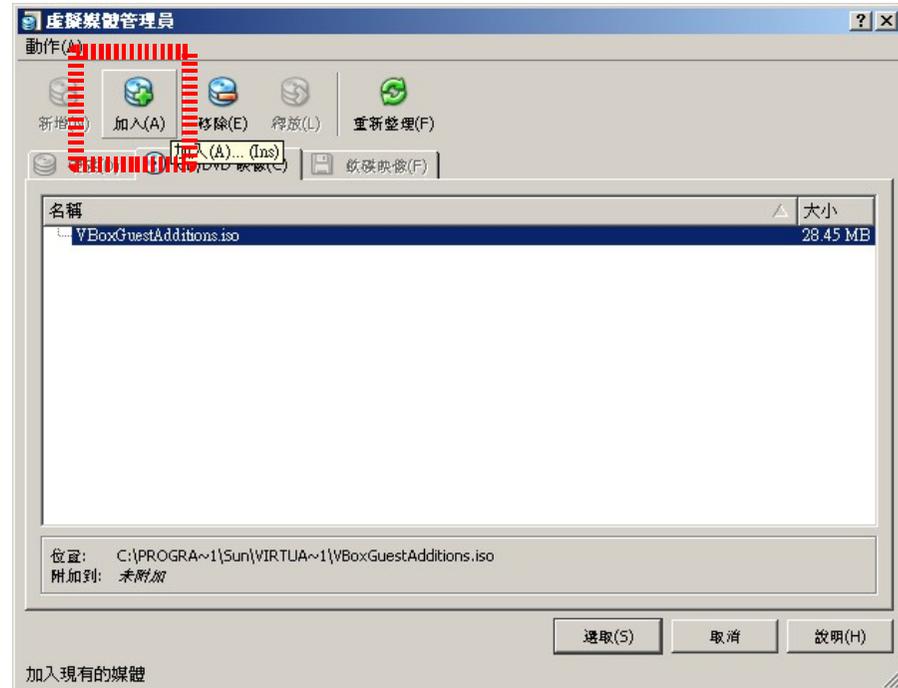
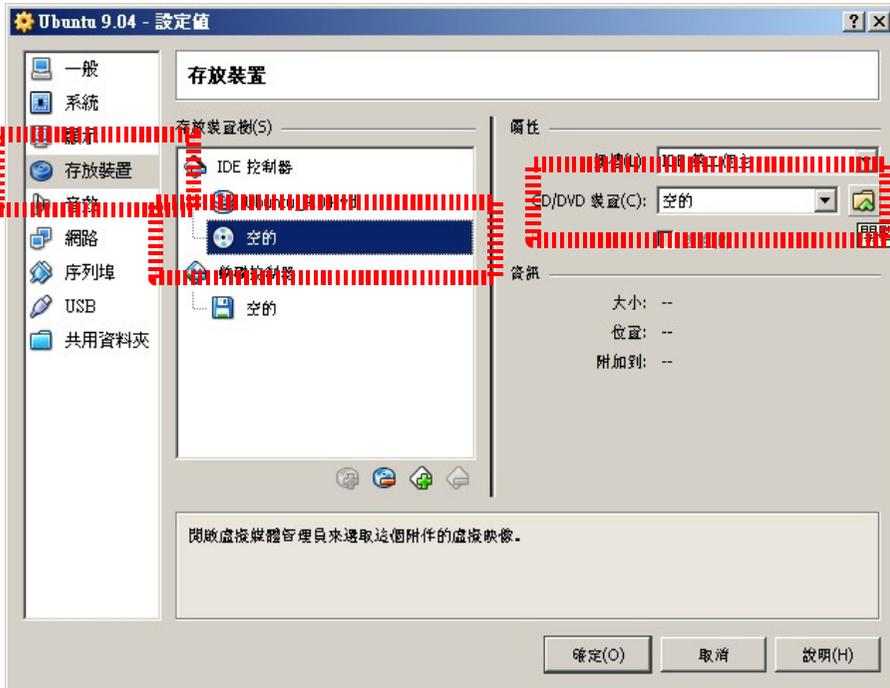
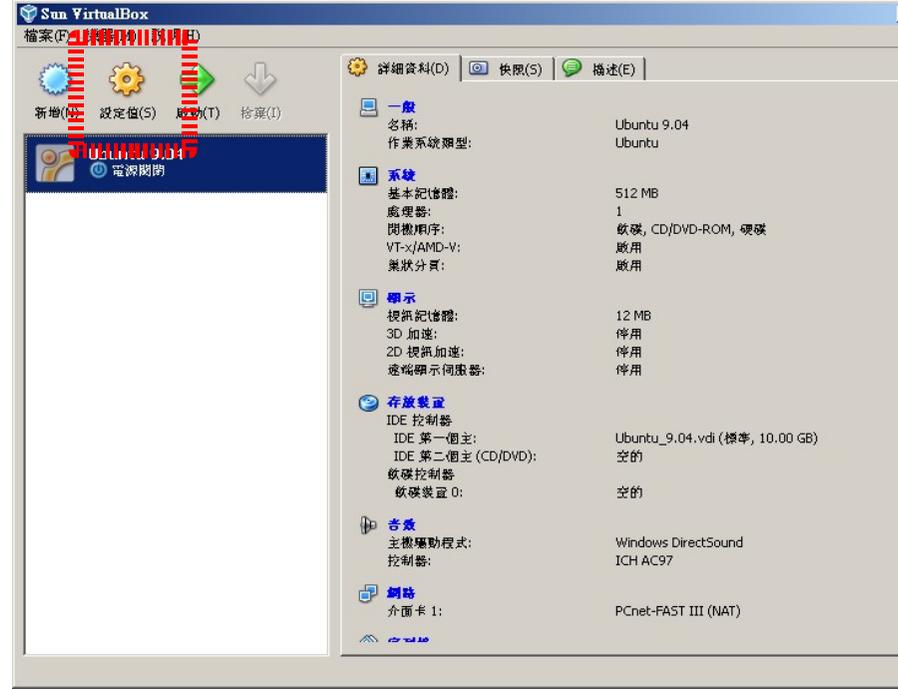
# 安裝 Ubuntu 9.10 (1)



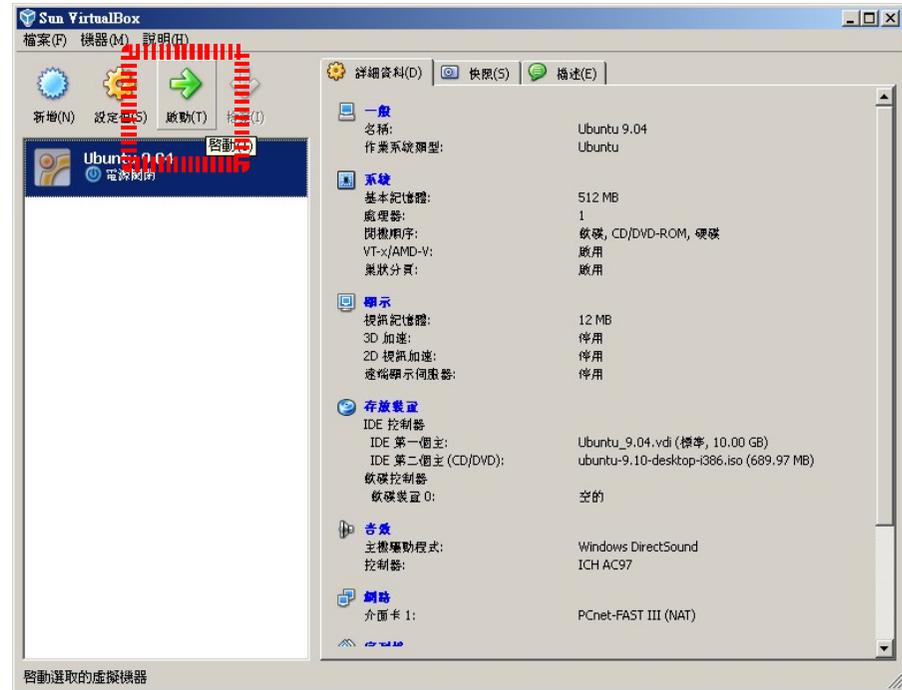
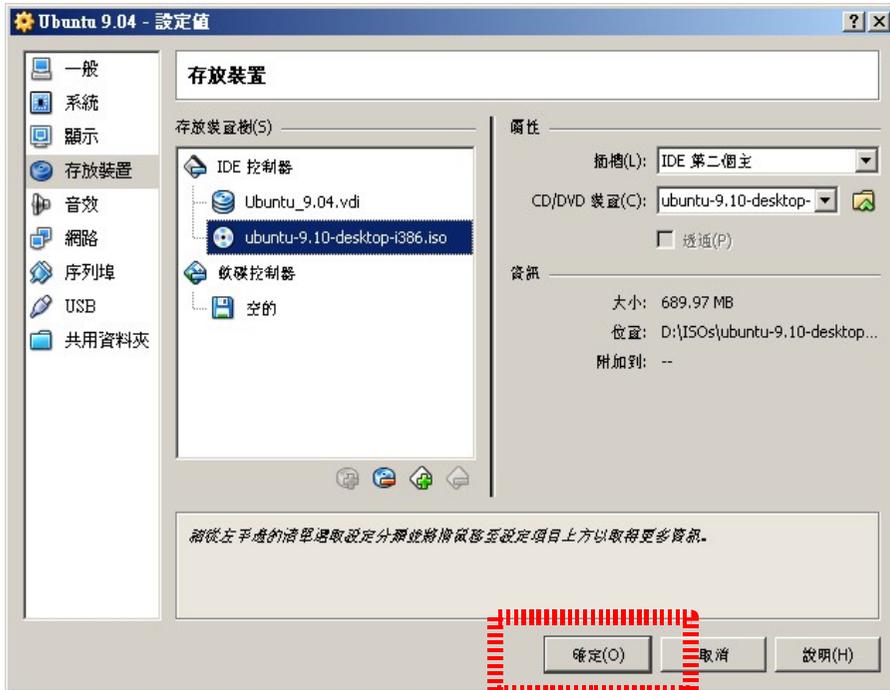
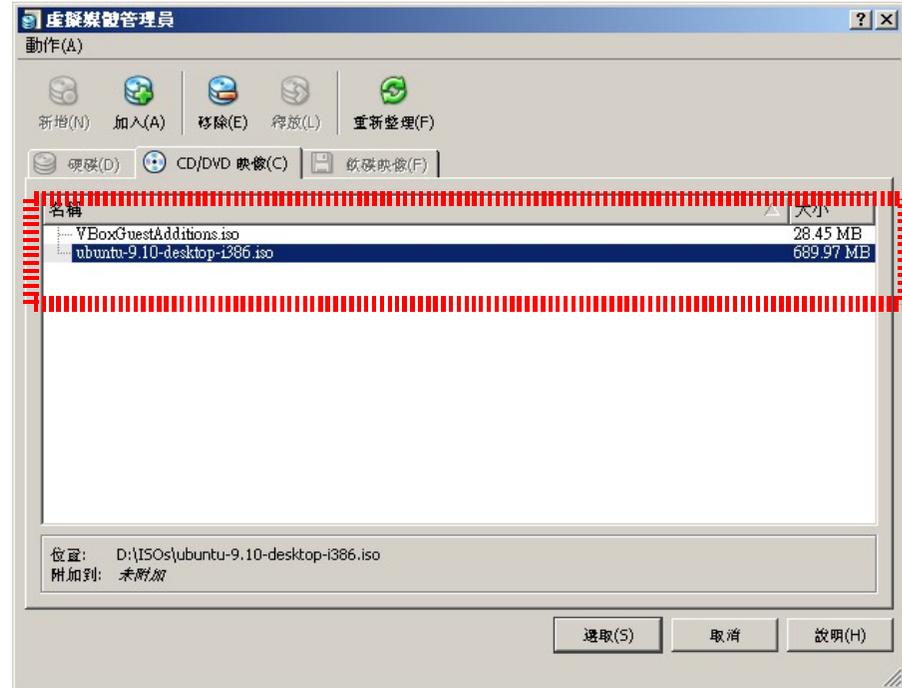
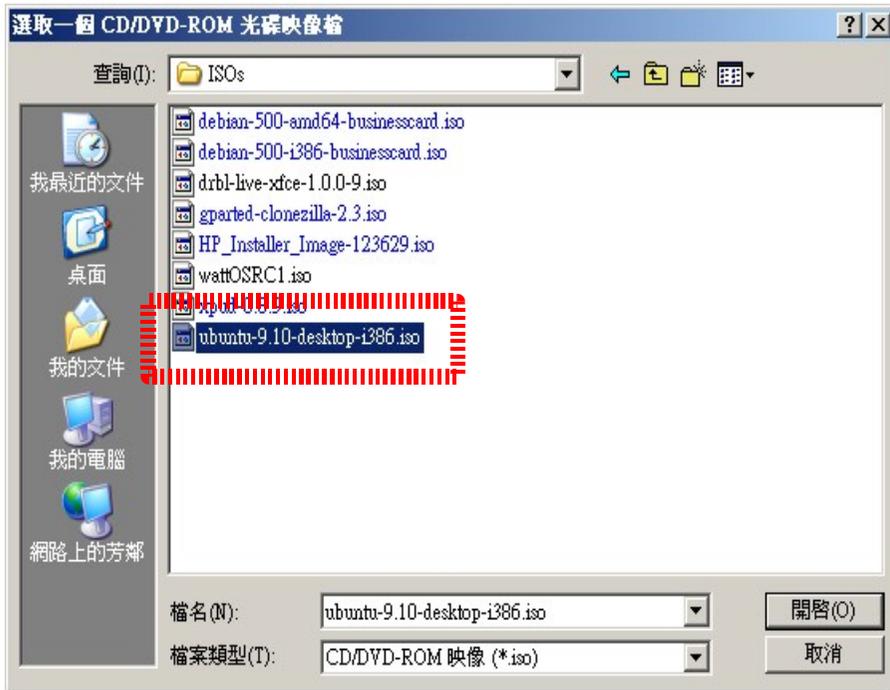
# 安裝 Ubuntu 9.10 (2)



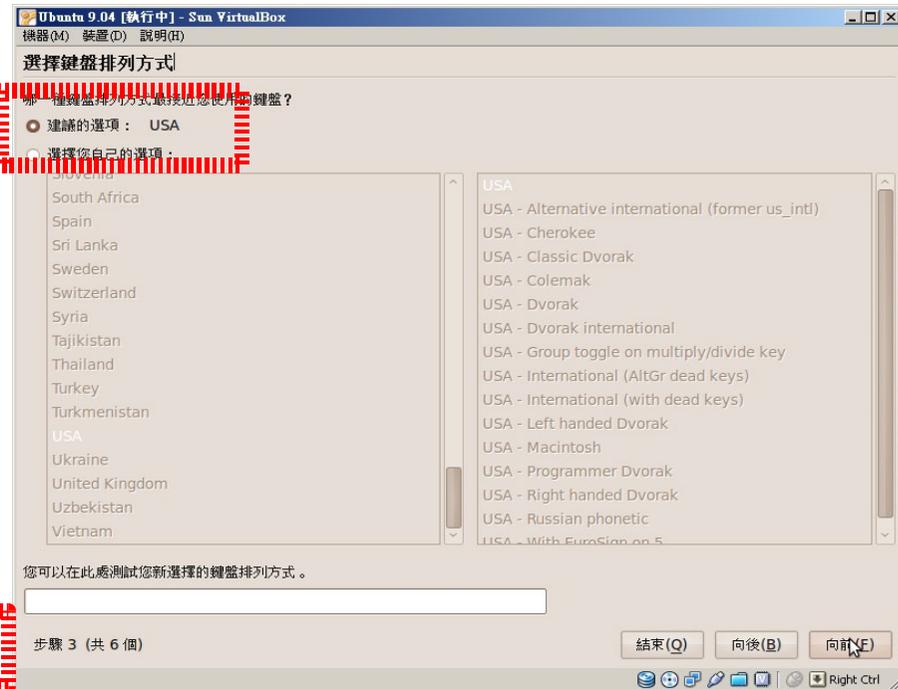
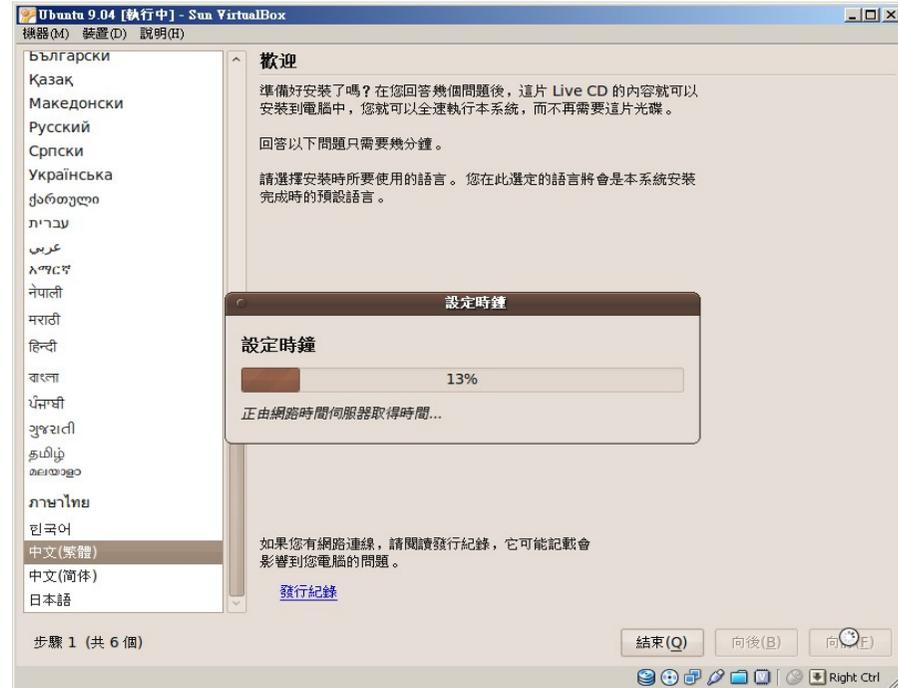
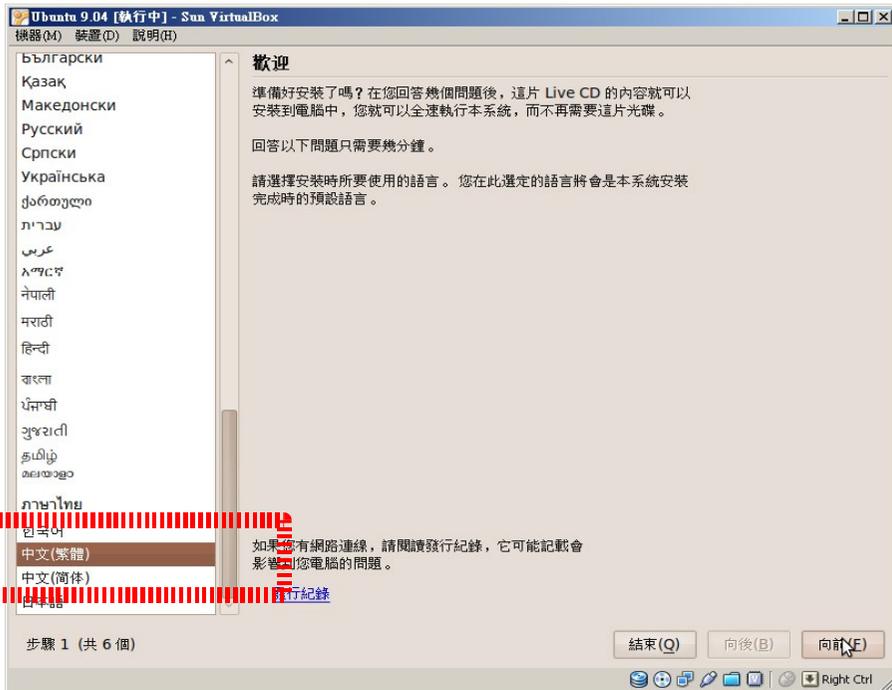
# 安裝 Ubuntu 9.10 (3)



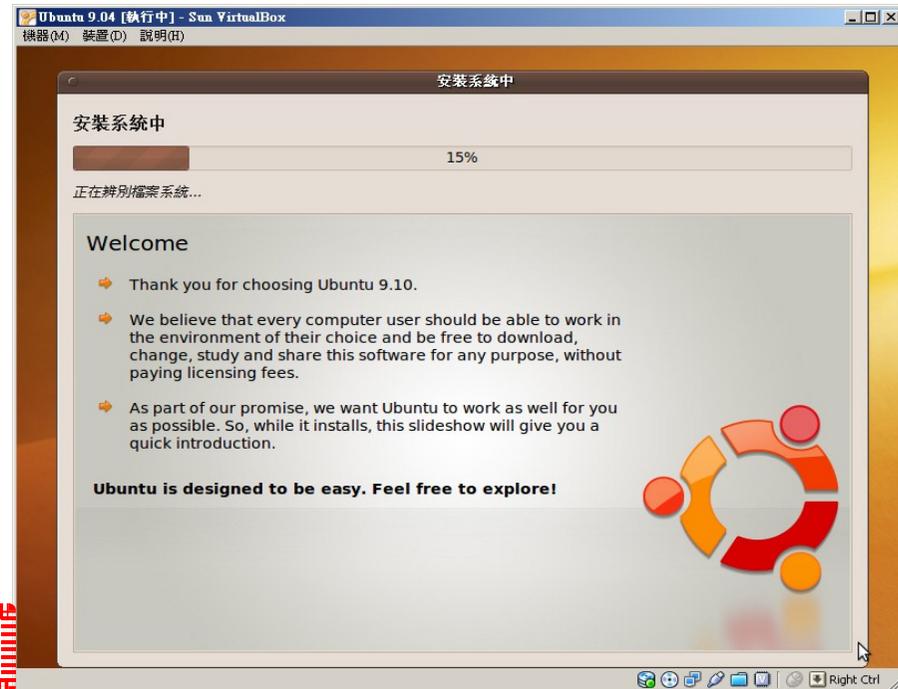
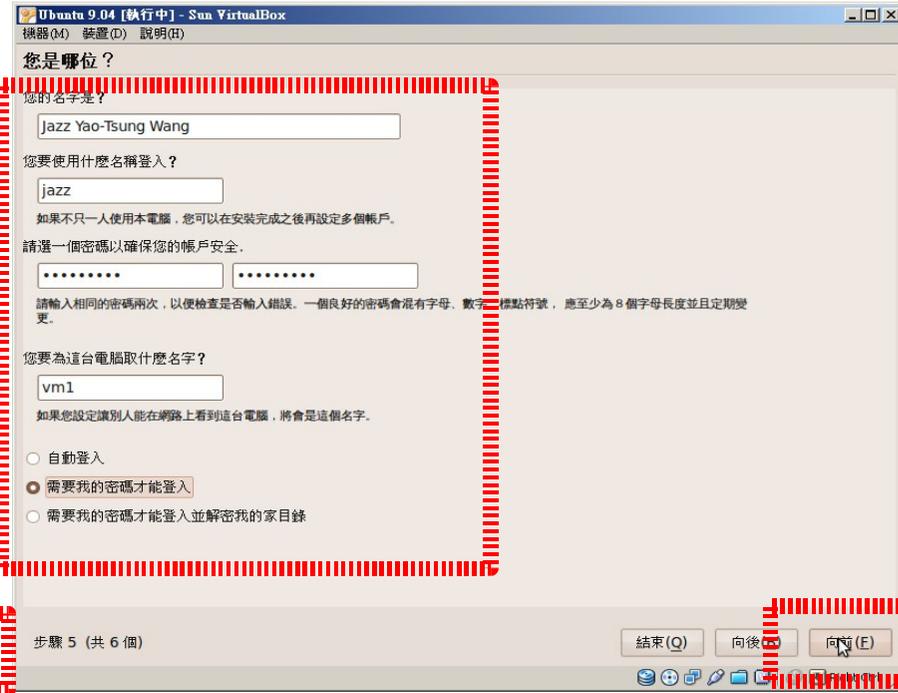
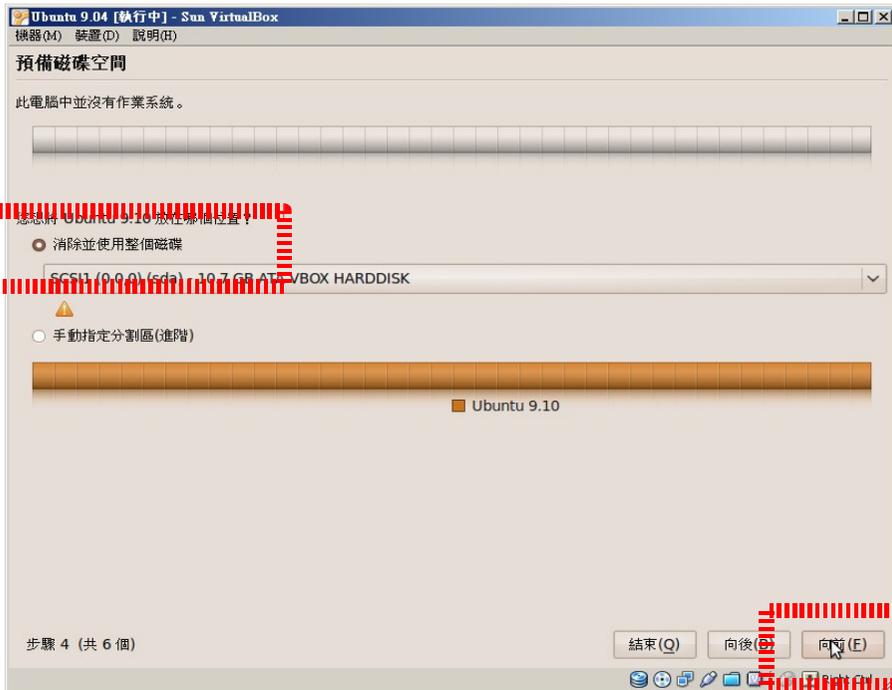
# 安裝 Ubuntu 9.10 (4)



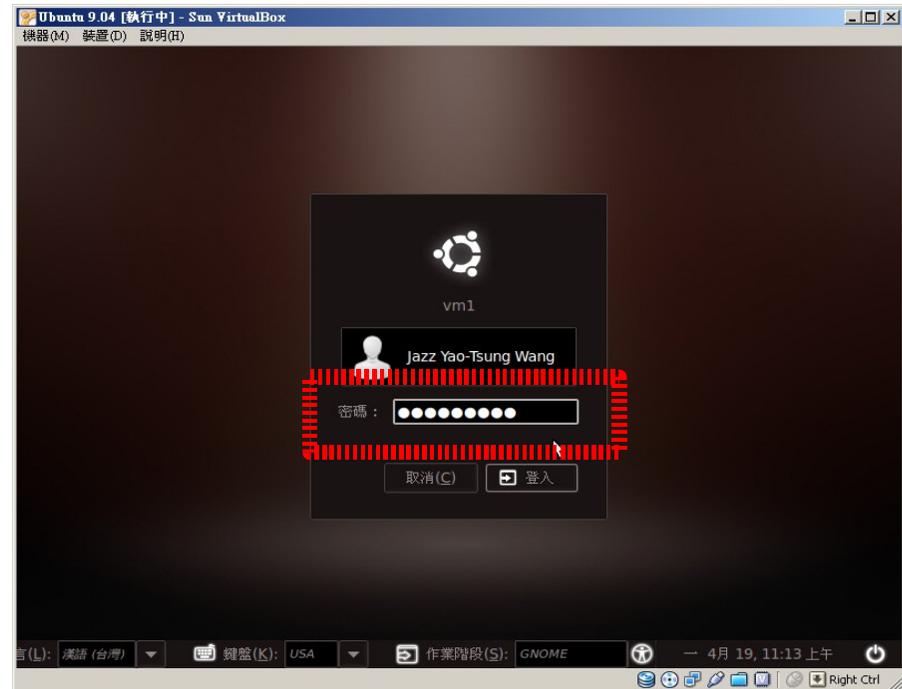
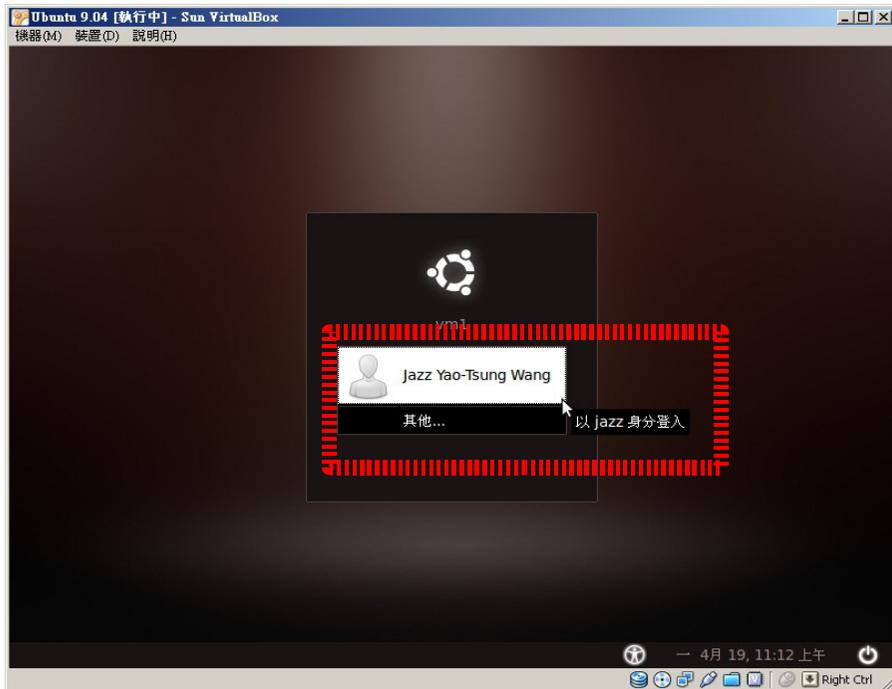
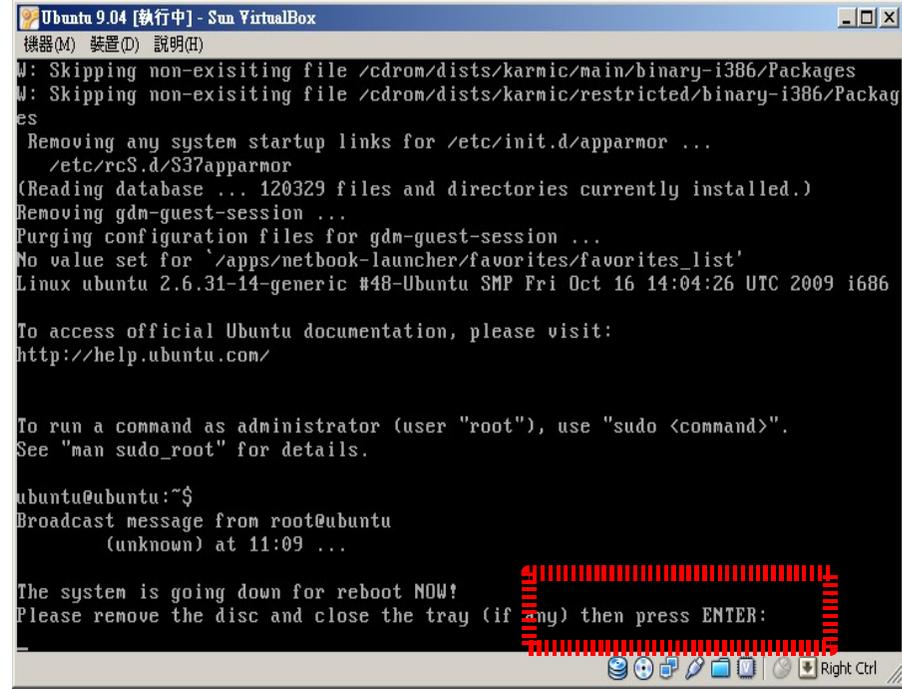
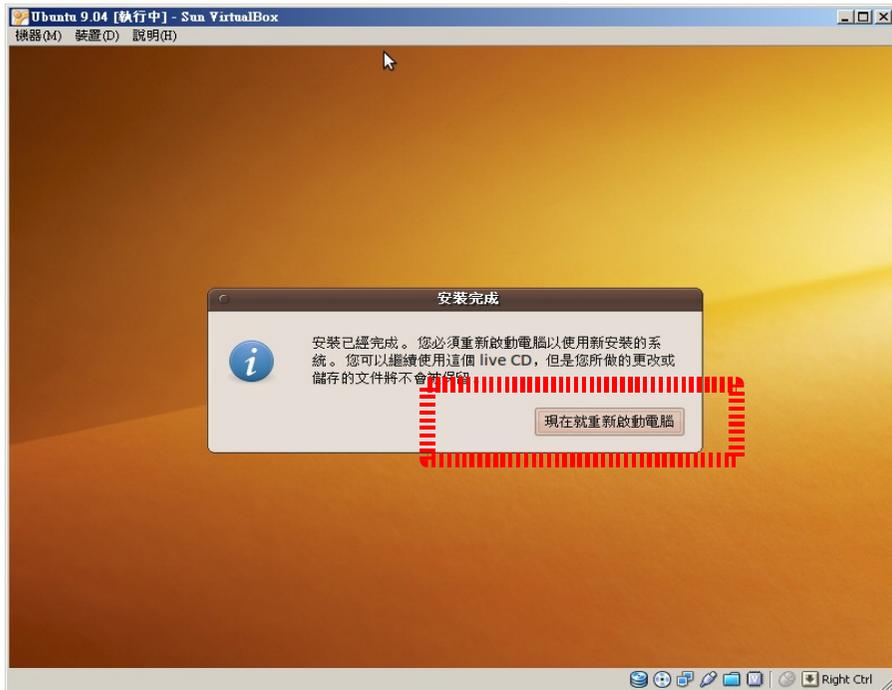
# 安裝 Ubuntu 9.10 (5)



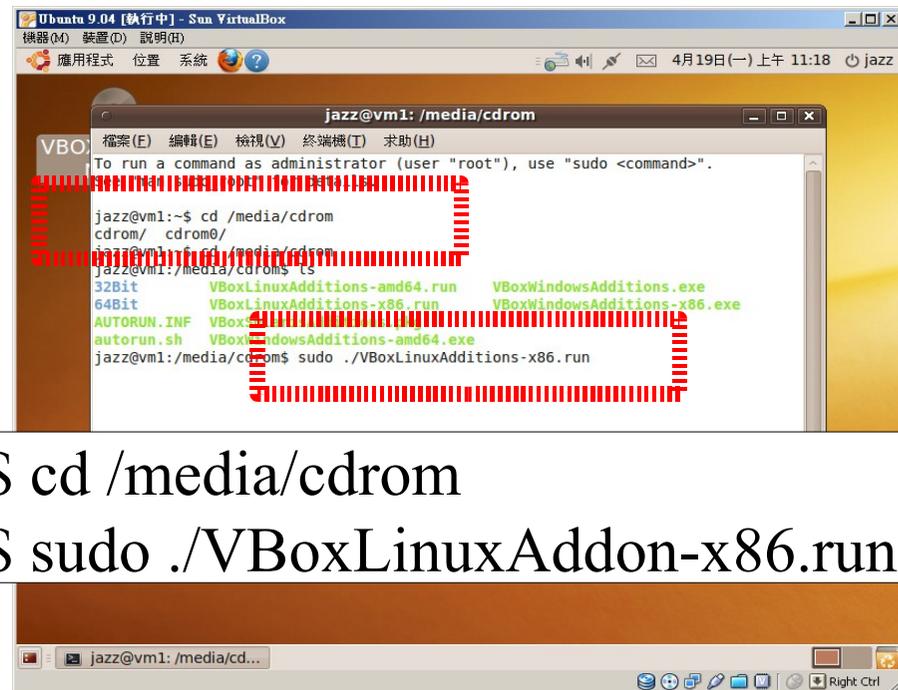
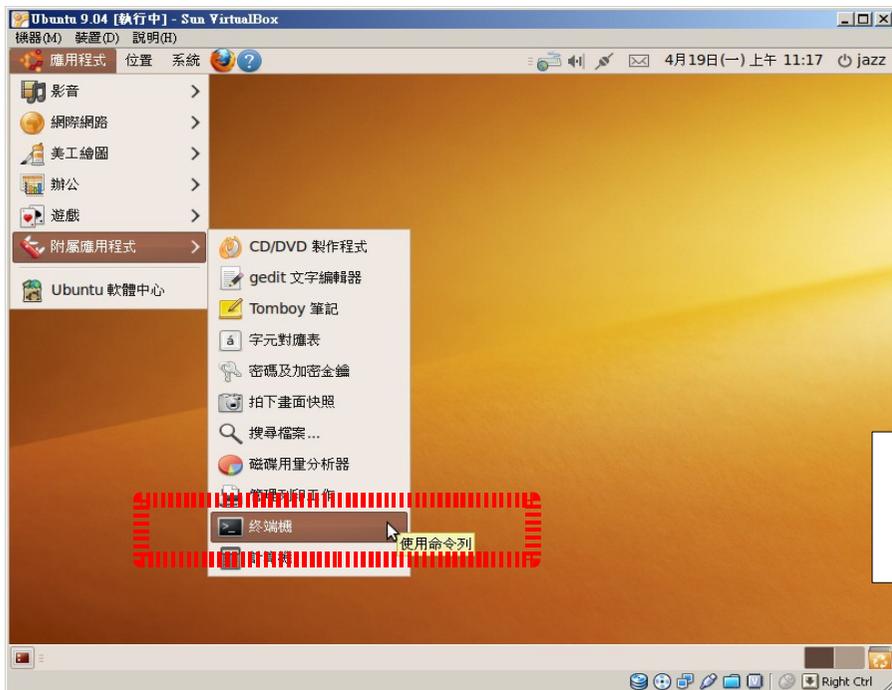
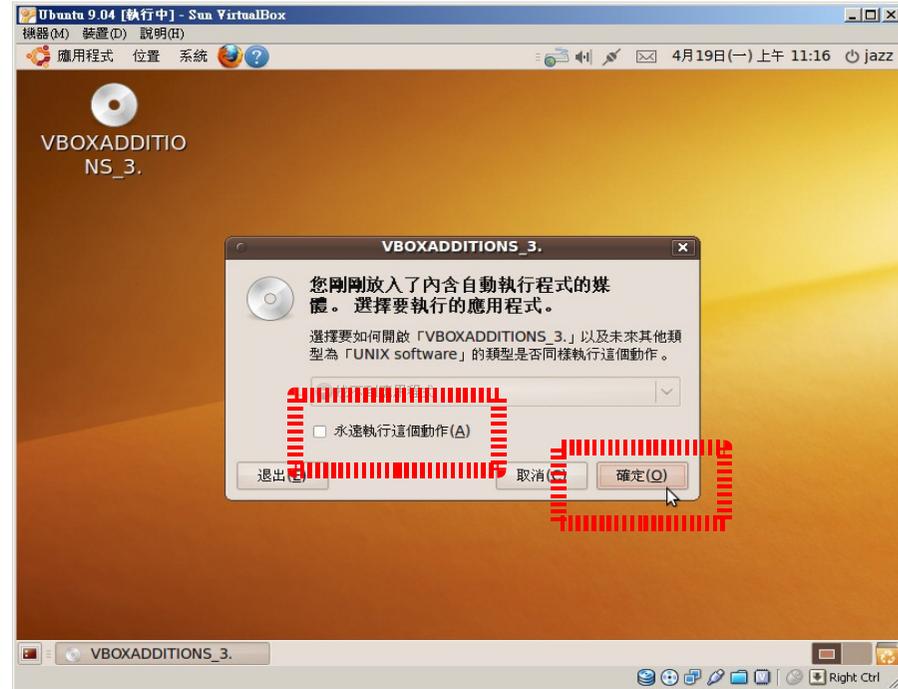
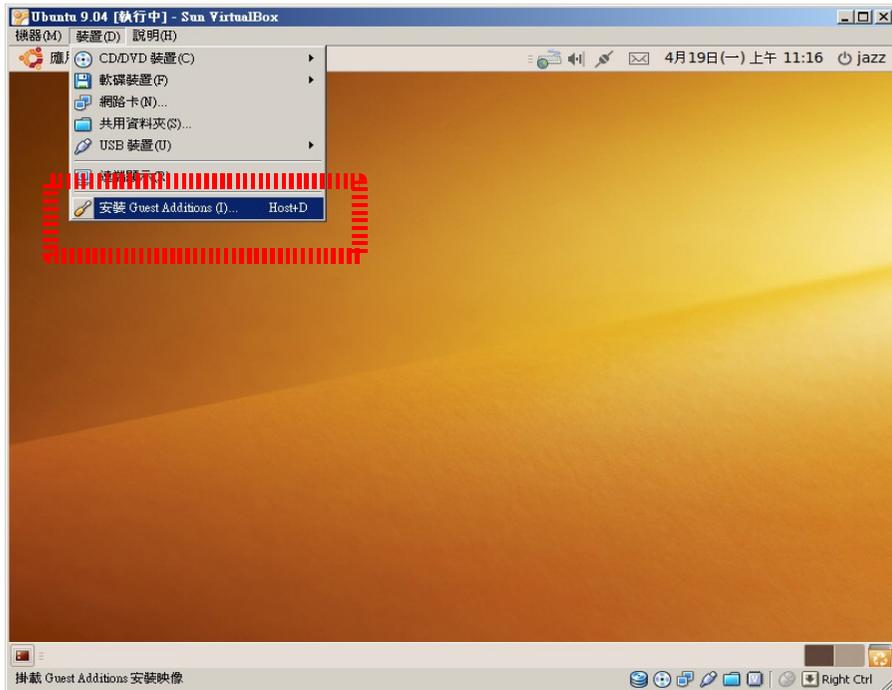
# 安裝 Ubuntu 9.10 (6)



# 安裝 Ubuntu 9.10 (7)

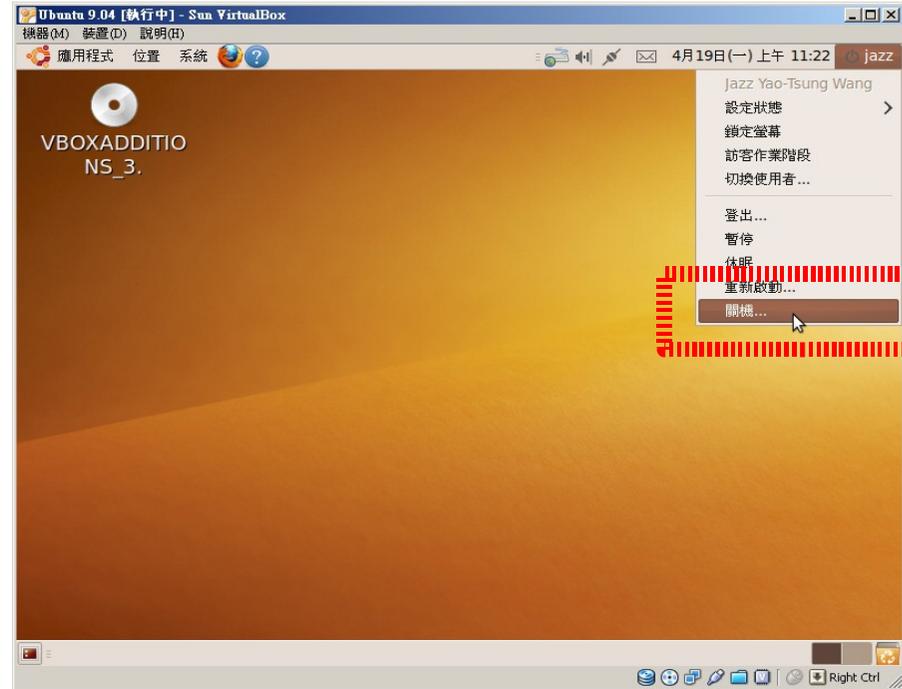
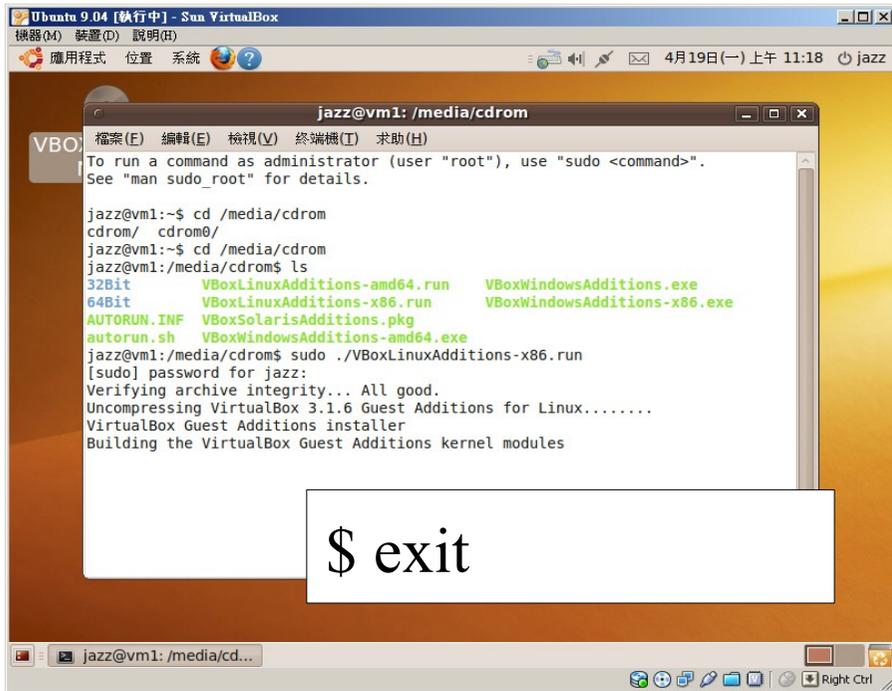


# 安裝 Ubuntu 9.10 (8)



\$ cd /media/cdrom  
\$ sudo ./VBoxLinuxAddon-x86.run

# 安裝 Ubuntu 9.10 (9)



一個令人哭笑不得的說法



學習使用免費的 Linux ，  
除非你的時間也是免費的！！

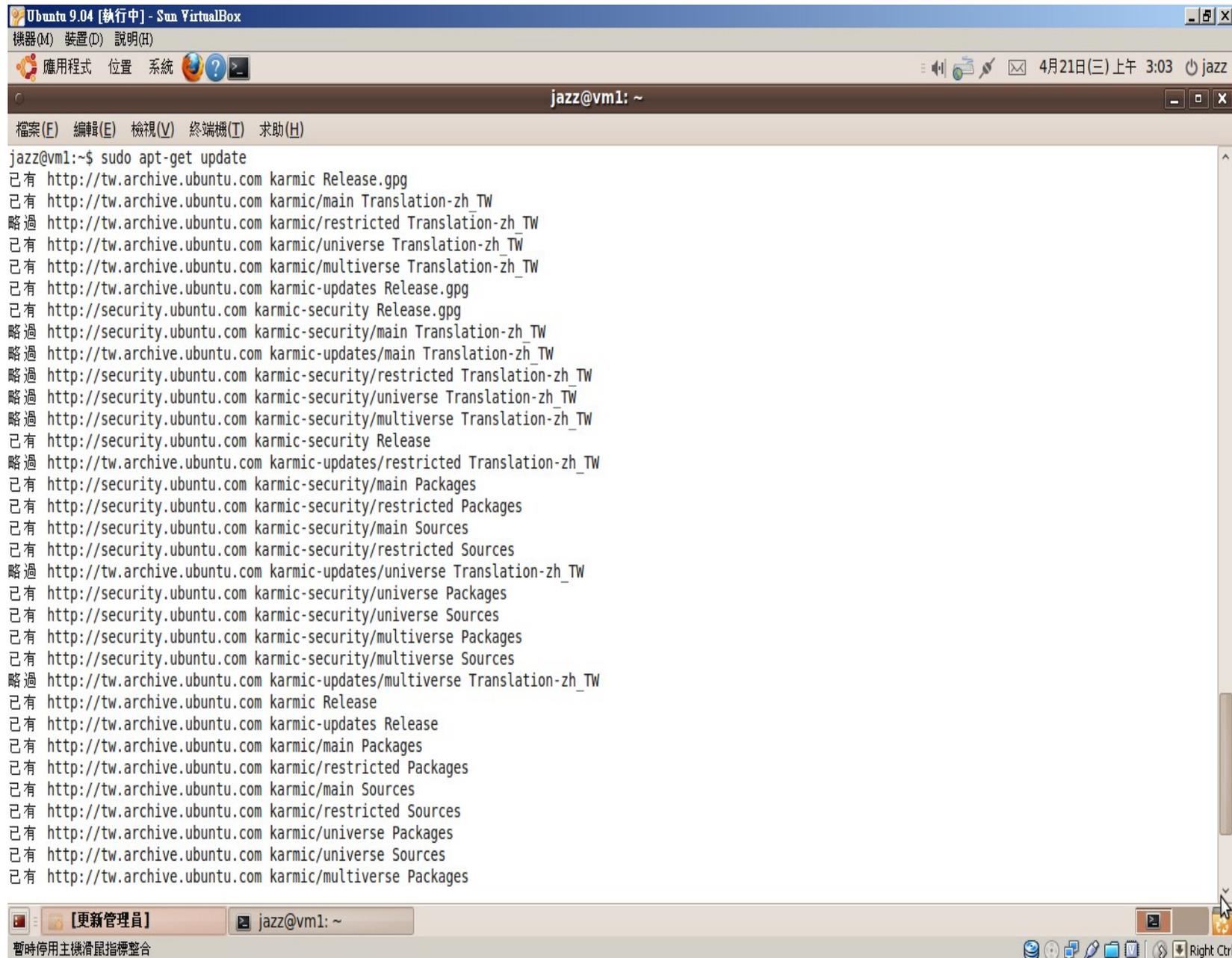
# Linux 入門資源

時間可以存起來嘛？把作過的事情紀錄下來吧！  
這部分的介紹，我 2001 年作過就請大家自己看了

[http://angkor.jazzbear.idv.tw/Linux\\_DivX/02.avi](http://angkor.jazzbear.idv.tw/Linux_DivX/02.avi)

- 如何找尋協助？
- Linux 基本指令操作
- Linux 管理者指令
- Linux 檔案系統簡介

# 基本管理篇 [1] 用 apt-get update 更新套件



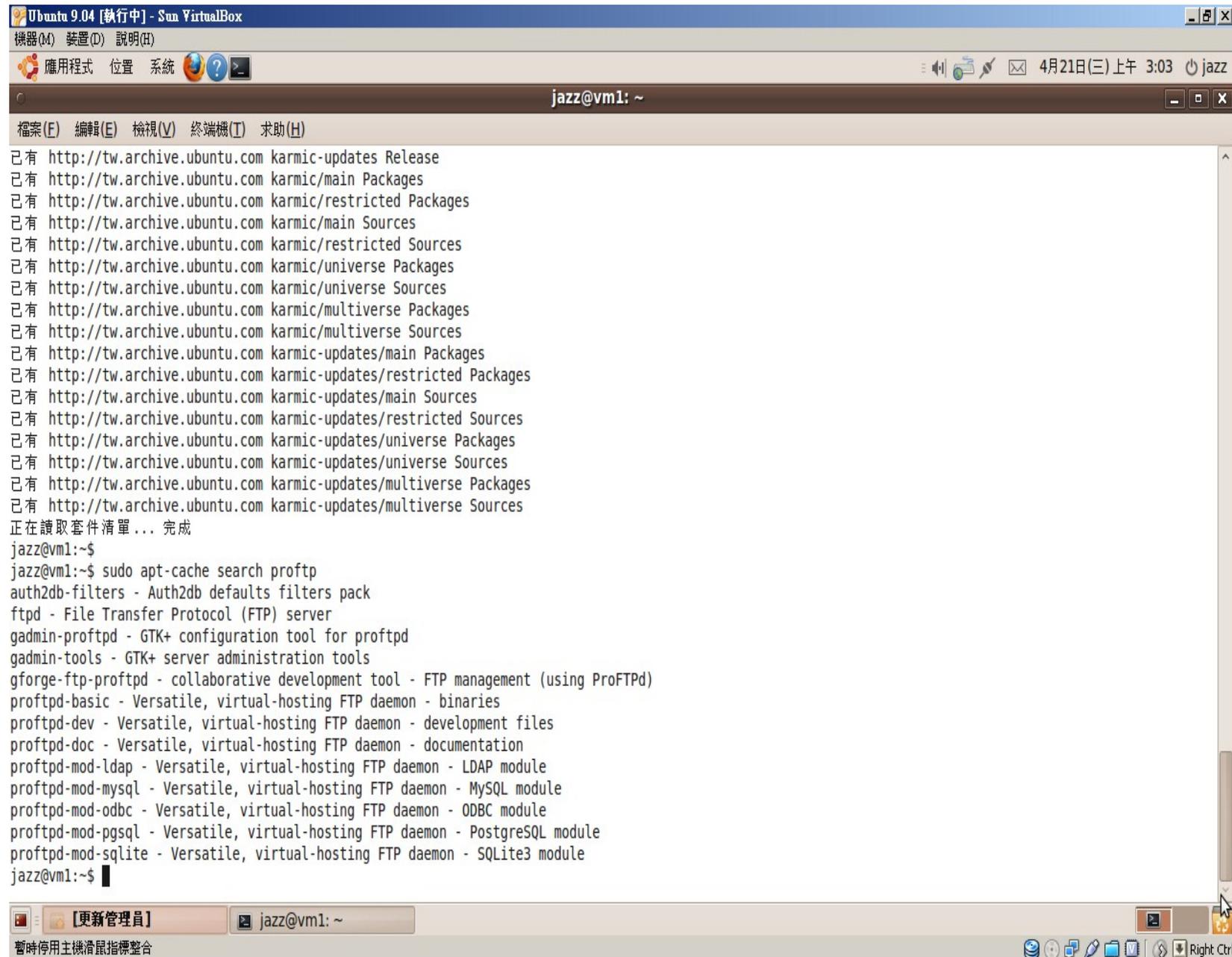
```
Ubuntu 9.04 [執行中] - Sun VirtualBox
機器(M) 裝置(D) 說明(H)
應用程式 位置 系統
jazz@vml: ~
檔案(E) 編輯(E) 檢視(V) 終端機(T) 求助(H)
jazz@vml:~$ sudo apt-get update
已有一 http://tw.archive.ubuntu.com karmic Release.gpg
已有一 http://tw.archive.ubuntu.com karmic/main Translation-zh_TW
略過 http://tw.archive.ubuntu.com karmic/restricted Translation-zh_TW
已有一 http://tw.archive.ubuntu.com karmic/universe Translation-zh_TW
已有一 http://tw.archive.ubuntu.com karmic/multiverse Translation-zh_TW
已有一 http://tw.archive.ubuntu.com karmic-updates Release.gpg
已有一 http://security.ubuntu.com karmic-security Release.gpg
略過 http://security.ubuntu.com karmic-security/main Translation-zh_TW
略過 http://tw.archive.ubuntu.com karmic-updates/main Translation-zh_TW
略過 http://security.ubuntu.com karmic-security/restricted Translation-zh_TW
略過 http://security.ubuntu.com karmic-security/universe Translation-zh_TW
略過 http://security.ubuntu.com karmic-security/multiverse Translation-zh_TW
已有一 http://security.ubuntu.com karmic-security Release
略過 http://tw.archive.ubuntu.com karmic-updates/restricted Translation-zh_TW
已有一 http://security.ubuntu.com karmic-security/main Packages
已有一 http://security.ubuntu.com karmic-security/restricted Packages
已有一 http://security.ubuntu.com karmic-security/main Sources
已有一 http://security.ubuntu.com karmic-security/restricted Sources
略過 http://tw.archive.ubuntu.com karmic-updates/universe Translation-zh_TW
已有一 http://security.ubuntu.com karmic-security/universe Packages
已有一 http://security.ubuntu.com karmic-security/universe Sources
已有一 http://security.ubuntu.com karmic-security/multiverse Packages
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略過 http://tw.archive.ubuntu.com karmic-updates/multiverse Translation-zh_TW
已有一 http://tw.archive.ubuntu.com karmic Release
已有一 http://tw.archive.ubuntu.com karmic-updates Release
已有一 http://tw.archive.ubuntu.com karmic/main Packages
已有一 http://tw.archive.ubuntu.com karmic/restricted Packages
已有一 http://tw.archive.ubuntu.com karmic/main Sources
已有一 http://tw.archive.ubuntu.com karmic/restricted Sources
已有一 http://tw.archive.ubuntu.com karmic/universe Packages
已有一 http://tw.archive.ubuntu.com karmic/universe Sources
已有一 http://tw.archive.ubuntu.com karmic/multiverse Packages
```

【更新管理員】 jazz@vml: ~

暫時停用主機滑鼠指標整合 Right Ctrl



# 基本管理篇 [3] 用 apt-cache search 搜尋



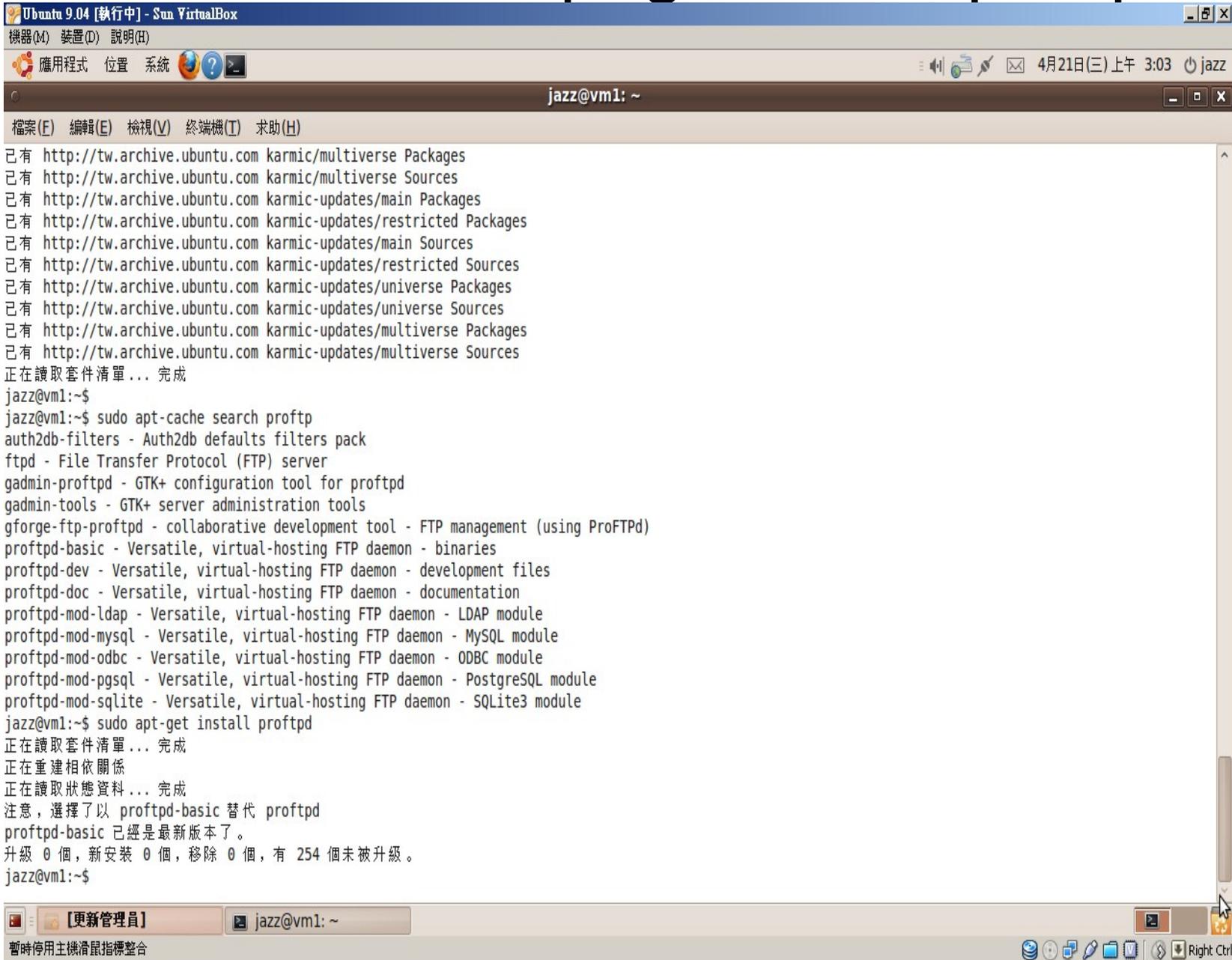
```
Ubuntu 9.04 [執行中] - Sun VirtualBox
機器(M) 裝置(D) 說明(H)
應用程式 位置 系統 4月21日(三)上午 3:03 jazz
jazz@vml: ~
檔案(E) 編輯(E) 檢視(V) 終端機(T) 求助(H)
已有 http://tw.archive.ubuntu.com karmic-updates Release
已有 http://tw.archive.ubuntu.com karmic/main Packages
已有 http://tw.archive.ubuntu.com karmic/restricted Packages
已有 http://tw.archive.ubuntu.com karmic/main Sources
已有 http://tw.archive.ubuntu.com karmic/restricted Sources
已有 http://tw.archive.ubuntu.com karmic/universe Packages
已有 http://tw.archive.ubuntu.com karmic/universe Sources
已有 http://tw.archive.ubuntu.com karmic/multiverse Packages
已有 http://tw.archive.ubuntu.com karmic/multiverse Sources
已有 http://tw.archive.ubuntu.com karmic-updates/main Packages
已有 http://tw.archive.ubuntu.com karmic-updates/restricted Packages
已有 http://tw.archive.ubuntu.com karmic-updates/main Sources
已有 http://tw.archive.ubuntu.com karmic-updates/restricted Sources
已有 http://tw.archive.ubuntu.com karmic-updates/universe Packages
已有 http://tw.archive.ubuntu.com karmic-updates/universe Sources
已有 http://tw.archive.ubuntu.com karmic-updates/multiverse Packages
已有 http://tw.archive.ubuntu.com karmic-updates/multiverse Sources
正在讀取套件清單... 完成
jazz@vml:~$
jazz@vml:~$ sudo apt-cache search proftpd
auth2db-filters - Auth2db defaults filters pack
ftpd - File Transfer Protocol (FTP) server
gadmin-proftpd - GTK+ configuration tool for proftpd
gadmin-tools - GTK+ server administration tools
gforge-ftp-proftpd - collaborative development tool - FTP management (using ProFTPD)
proftpd-basic - Versatile, virtual-hosting FTP daemon - binaries
proftpd-dev - Versatile, virtual-hosting FTP daemon - development files
proftpd-doc - Versatile, virtual-hosting FTP daemon - documentation
proftpd-mod-ldap - Versatile, virtual-hosting FTP daemon - LDAP module
proftpd-mod-mysql - Versatile, virtual-hosting FTP daemon - MySQL module
proftpd-mod-odbc - Versatile, virtual-hosting FTP daemon - ODBC module
proftpd-mod-pgsql - Versatile, virtual-hosting FTP daemon - PostgreSQL module
proftpd-mod-sqlite - Versatile, virtual-hosting FTP daemon - SQLite3 module
jazz@vml:~$
```

【更新管理員】 jazz@vml: ~

暫時停用主機滑鼠指標整合 Right Ctrl

# 基本管理篇 [4] 用 apt-get install 安裝套件

## Ex. apt-get install proftpd



```
Ubuntu 9.04 [執行中] - Sun VirtualBox
機器(M) 裝置(D) 說明(H)
應用程式 位置 系統
jazz@vm1: ~
檔案(E) 編輯(E) 檢視(V) 終端機(T) 求助(H)
已有 http://tw.archive.ubuntu.com karmic/multiverse Packages
已有 http://tw.archive.ubuntu.com karmic/multiverse Sources
已有 http://tw.archive.ubuntu.com karmic-updates/main Packages
已有 http://tw.archive.ubuntu.com karmic-updates/restricted Packages
已有 http://tw.archive.ubuntu.com karmic-updates/main Sources
已有 http://tw.archive.ubuntu.com karmic-updates/restricted Sources
已有 http://tw.archive.ubuntu.com karmic-updates/universe Packages
已有 http://tw.archive.ubuntu.com karmic-updates/universe Sources
已有 http://tw.archive.ubuntu.com karmic-updates/multiverse Packages
已有 http://tw.archive.ubuntu.com karmic-updates/multiverse Sources
正在讀取套件清單... 完成
jazz@vm1:~$
jazz@vm1:~$ sudo apt-cache search proftpd
auth2db-filters - Auth2db defaults filters pack
ftpd - File Transfer Protocol (FTP) server
gadmin-proftpd - GTK+ configuration tool for proftpd
gadmin-tools - GTK+ server administration tools
gforge-ftp-proftpd - collaborative development tool - FTP management (using ProFTPd)
proftpd-basic - Versatile, virtual-hosting FTP daemon - binaries
proftpd-dev - Versatile, virtual-hosting FTP daemon - development files
proftpd-doc - Versatile, virtual-hosting FTP daemon - documentation
proftpd-mod-ldap - Versatile, virtual-hosting FTP daemon - LDAP module
proftpd-mod-mysql - Versatile, virtual-hosting FTP daemon - MySQL module
proftpd-mod-odbc - Versatile, virtual-hosting FTP daemon - ODBC module
proftpd-mod-pgsql - Versatile, virtual-hosting FTP daemon - PostgreSQL module
proftpd-mod-sqlite - Versatile, virtual-hosting FTP daemon - SQLite3 module
jazz@vm1:~$ sudo apt-get install proftpd
正在讀取套件清單... 完成
正在重建相依關係
正在讀取狀態資料... 完成
注意，選擇了以 proftpd-basic 替代 proftpd
proftpd-basic 已經是最新版本了。
升級 0 個，新安裝 0 個，移除 0 個，有 254 個未被升級。
jazz@vm1:~$
```

【更新管理員】 jazz@vm1: ~

暫時停用主機滑鼠指標整合

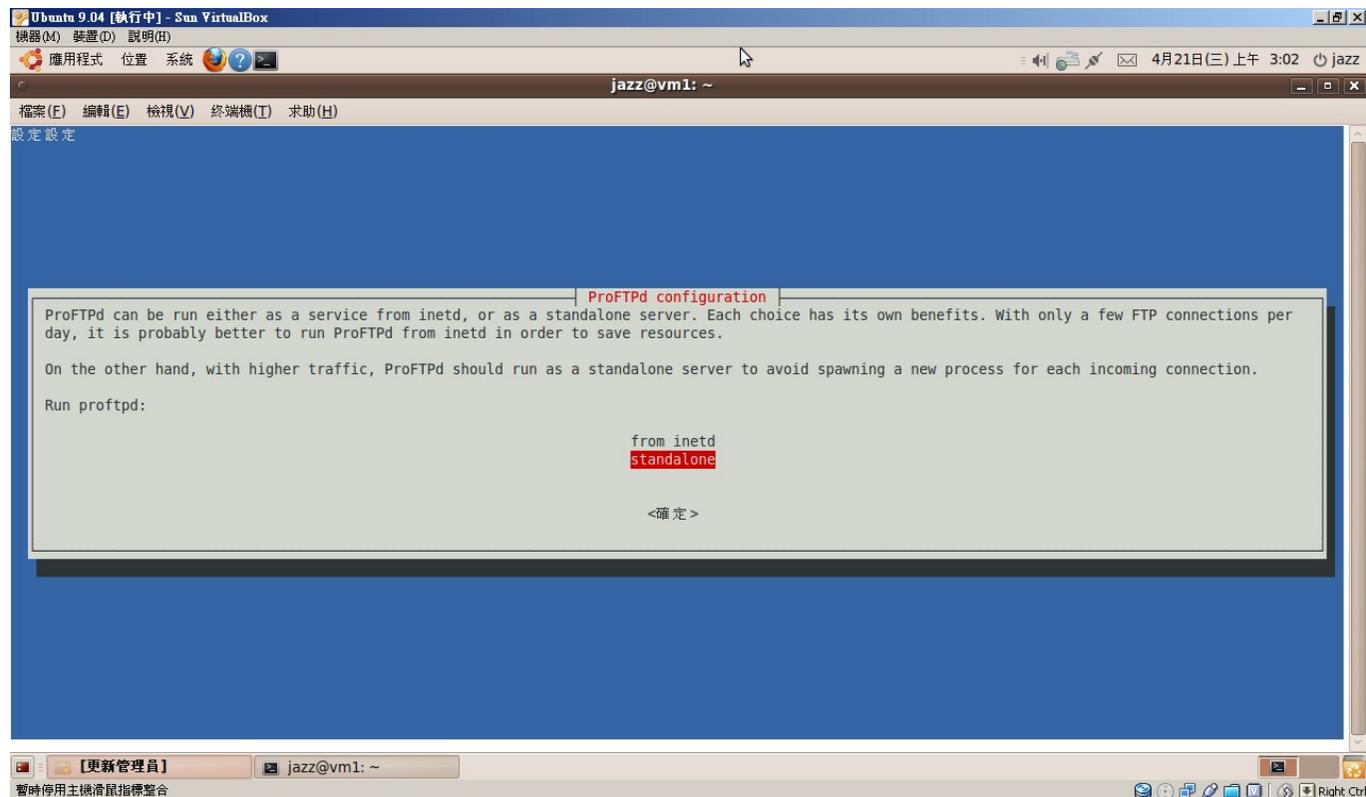
# 安裝 ProFTP

```
$ sudo apt-get install proftpd
```

```
$ sudo apt-get install ftp
```

- 測試

```
$ ftp localhost 21
```



# 安裝 SSH

```
$ sudo apt-get install ssh
```

```
$ ssh localhost
```



```
Ubuntu 9.04 [執行中] - Sun VirtualBox
機器(M) 裝置(D) 說明(H)
瀏覽及執行已安裝的程式
jazz@vm1: ~
檔案(E) 編輯(E) 檢視(V) 終端機(T) 求助(H)
jazz@vm1:~$ sudo apt-get install ssh
[sudo] password for jazz:
正在讀取套件清單... 完成
正在重建相依關係
正在讀取狀態資料... 完成
ssh 已經是最新版本了。
升級 0 個，新安裝 0 個，移除 0 個，有 254 個未被升級。
jazz@vm1:~$ ssh localhost
jazz@localhost's password:
Linux vm1 2.6.31-14-generic #48-Ubuntu SMP Fri Oct 16 14:04:26 UTC 2009 i686

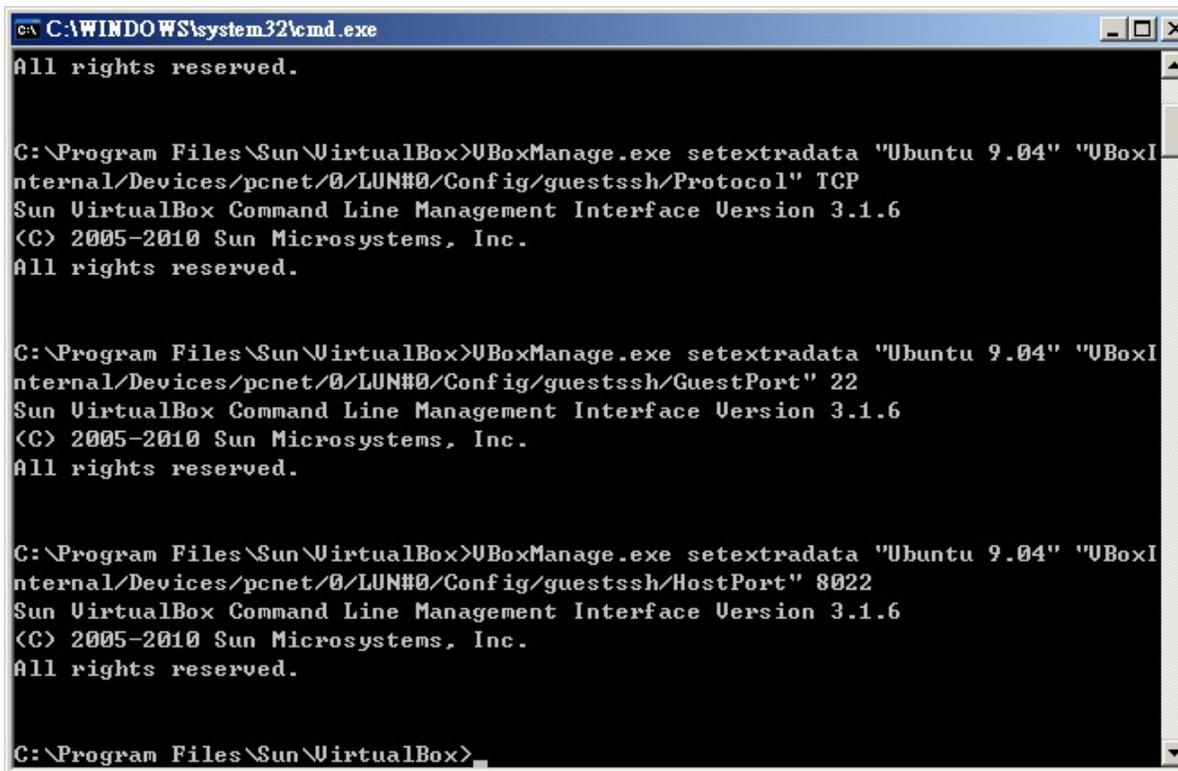
To access official Ubuntu documentation, please visit:
http://help.ubuntu.com/

259 packages can be updated.
106 updates are security updates.

Last login: Wed Apr 21 16:05:51 2010 from localhost
jazz@vm1:~$
```

# 讓 Windows 可以連到虛擬機器

- VBoxManage.exe setextradata "Ubuntu 9.04" "VBoxInternal/Devices/pcnet/0/LUN#0/Config/guestssh/Protocol" TCP
- VBoxManage.exe setextradata "Ubuntu 9.04" "VBoxInternal/Devices/pcnet/0/LUN#0/Config/guestssh/GuestPort" 22
- VBoxManage.exe setextradata "Ubuntu 9.04" "VBoxInternal/Devices/pcnet/0/LUN#0/Config/guestssh/HostPort" 8022



```
C:\WINDOWS\system32\cmd.exe
All rights reserved.

C:\Program Files\Sun\VirtualBox>VBoxManage.exe setextradata "Ubuntu 9.04" "VBoxInternal/Devices/pcnet/0/LUN#0/Config/guestssh/Protocol" TCP
Sun VirtualBox Command Line Management Interface Version 3.1.6
(C) 2005-2010 Sun Microsystems, Inc.
All rights reserved.

C:\Program Files\Sun\VirtualBox>VBoxManage.exe setextradata "Ubuntu 9.04" "VBoxInternal/Devices/pcnet/0/LUN#0/Config/guestssh/GuestPort" 22
Sun VirtualBox Command Line Management Interface Version 3.1.6
(C) 2005-2010 Sun Microsystems, Inc.
All rights reserved.

C:\Program Files\Sun\VirtualBox>VBoxManage.exe setextradata "Ubuntu 9.04" "VBoxInternal/Devices/pcnet/0/LUN#0/Config/guestssh/HostPort" 8022
Sun VirtualBox Command Line Management Interface Version 3.1.6
(C) 2005-2010 Sun Microsystems, Inc.
All rights reserved.

C:\Program Files\Sun\VirtualBox>
```

# 使用 WinSCP 上下傳檔案 (1)



# 使用 WinSCP 上下傳檔案 (2)

The screenshot displays the WinSCP interface with two panels. The left panel shows the local file system (C:\SYSTEM) with a list of folders and files. The right panel shows the remote file system (/home/jazz) with a list of folders and files. The bottom status bar shows the transfer progress: 5,464 B / 97 B, SFTP (v3), 0:00:49.

**Local File System (C:\SYSTEM)**

名稱	離開	大小	類型	Change
..			Parent directory	2010/4
Aptana Studio			File Folder	2009/1
Bluetooth			File Folder	2010/1
DataCardGKU			File Folder	2010/4
Downloads			File Folder	2009/1
etax			File Folder	2009/5
JPG files			File Folder	2008/8
MP3 files			File Folder	2008/8
My Music			File Folder	2009/1
My Pictures			File Folder	2010/2
My Videos			File Folder	2009/6
My Virtual Machines			File Folder	2009/7
TXT Files			File Folder	2008/8
我已接收的檔案			File Folder	2008/6
捷徑			File Folder	2007/3
ssh-key		601	檔案	2009/4
PAPER.DOT		23,552	Microsoft Word ...	2005/8
desktop.ini		90	Notepad++ Docu...	2008/1
我的共用資料夾.lnk		951	Shortcut	2009/2
ssh-key.pub		703	PHP 檔案	2009/4

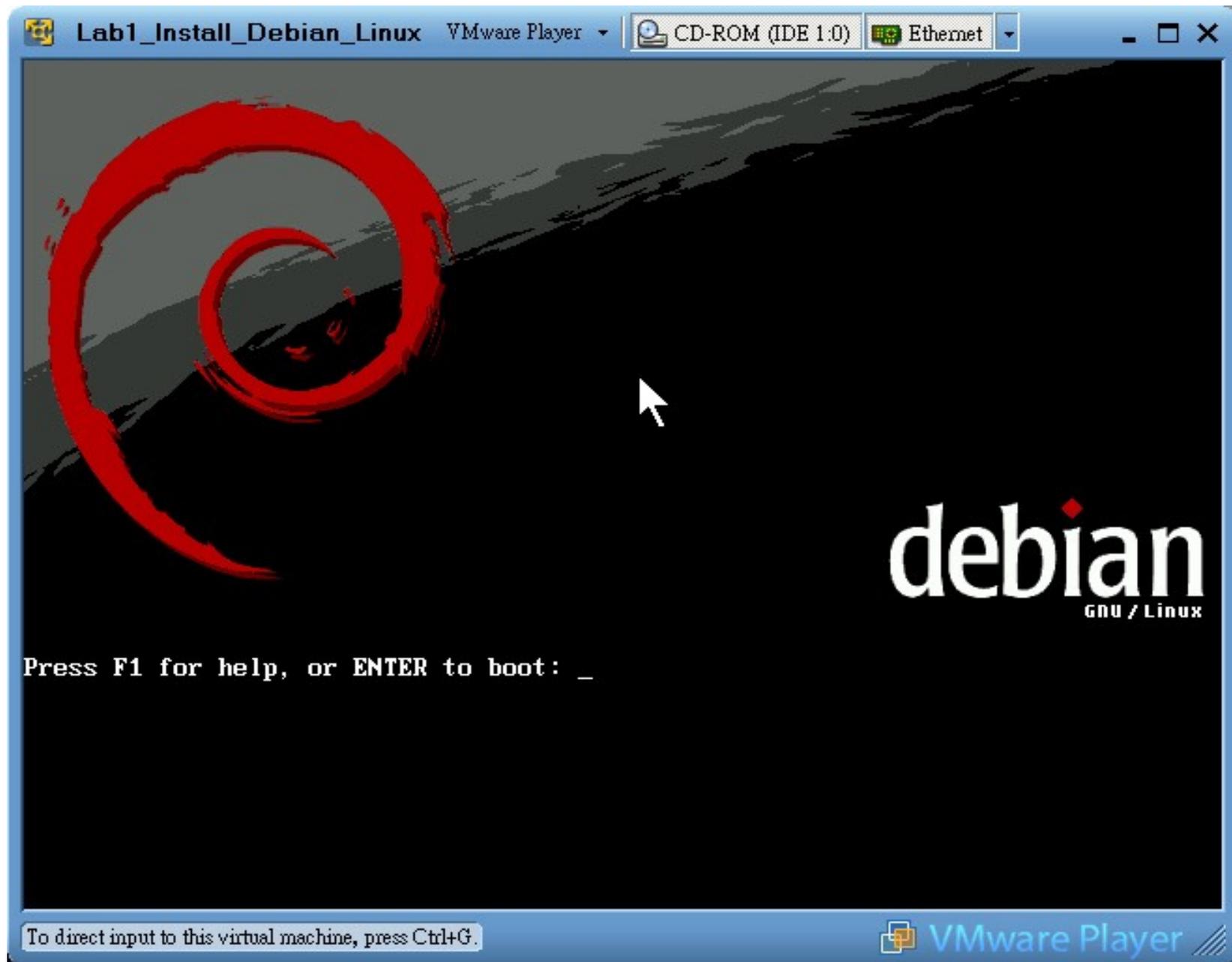
**Remote File System (/home/jazz)**

名稱	離開	大小	類型	Changed
..			File Folder	2010/4/21 上午 03:02:53
?.*			File Folder	2010/4/19 上午 11:14:03
?單?			File Folder	2010/4/19 上午 11:14:03
? ?			File Folder	2010/4/19 上午 11:14:03
? 辣			File Folder	2010/4/19 上午 11:14:03
銼 ?			File Folder	2010/4/19 上午 11:14:03
隙梁?			File Folder	2010/4/19 上午 11:14:03
獠			File Folder	2010/4/19 上午 11:14:03
環上			File Folder	2010/4/19 上午 11:14:03
gstreamer-0.10			File Folder	2010/4/19 上午 11:14:22
cache			File Folder	2010/4/21 下午 04:05:37
config			File Folder	2010/4/19 上午 11:14:15
.dbus			File Folder	2010/4/19 上午 11:14:04
fontconfig			File Folder	2010/4/19 上午 11:14:08
gconf			File Folder	2010/4/21 下午 04:39:38
gconfd			File Folder	2010/4/21 下午 04:40:36
gnome2			File Folder	2010/4/21 下午 04:09:45
gnome2_private			File Folder	2010/4/19 上午 11:14:11
gnupg			File Folder	2010/4/21 下午 04:39:37
outfs			File Folder	2010/4/21 下午 04:39:37

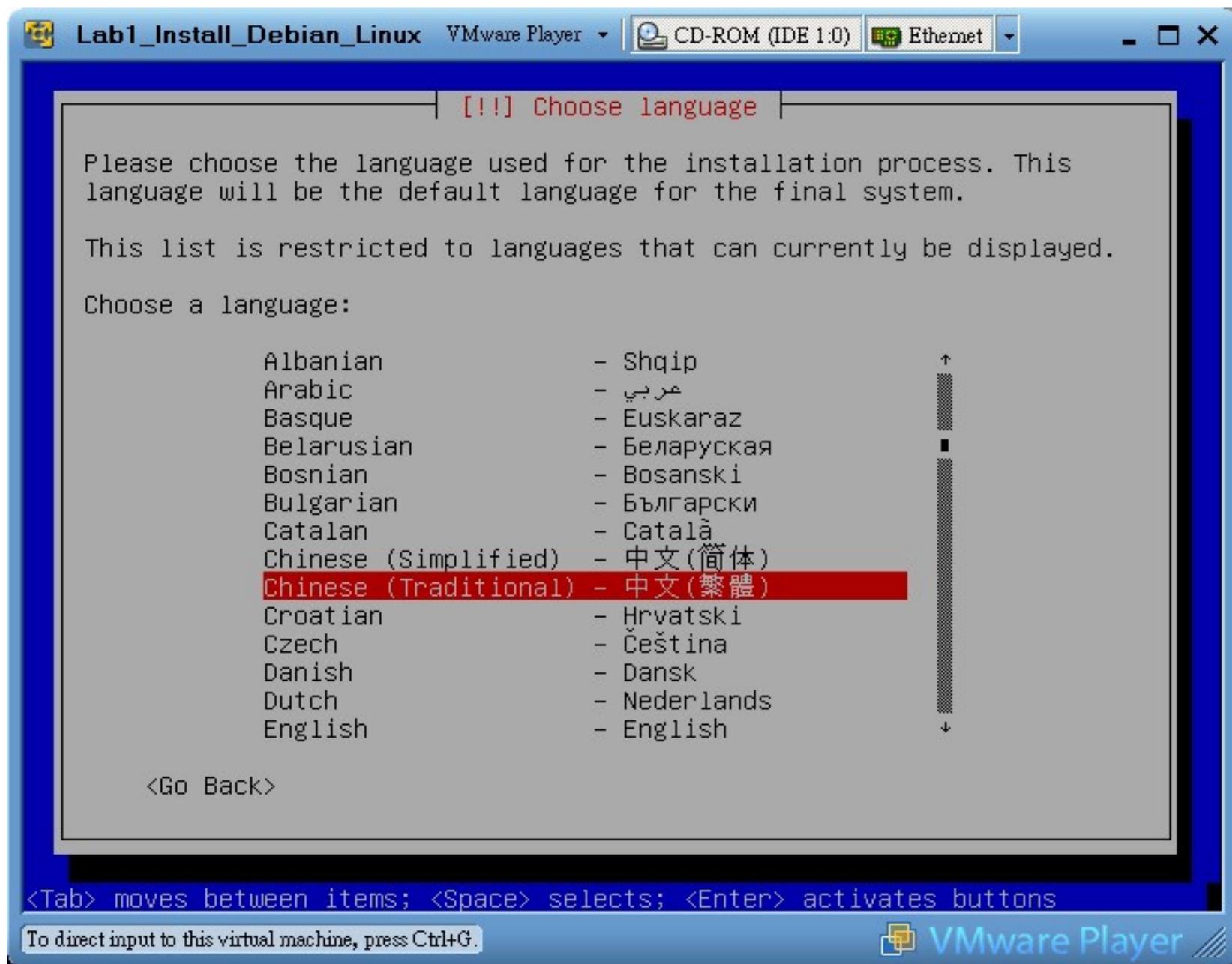
**Status Bar:** 5,464 B / 97 B | SFTP (v3) | 0:00:49

Appendex A :  
安裝 Debian 4.0r3 GNU/Linux

# 開始模擬從光碟安裝



# 選擇中文(繁體)語系



# 選擇『台灣』



# 選擇『美語鍵盤』



輸入『主機名稱』 = drbl-srv



輸入『網域名稱』 = ym.edu.tw

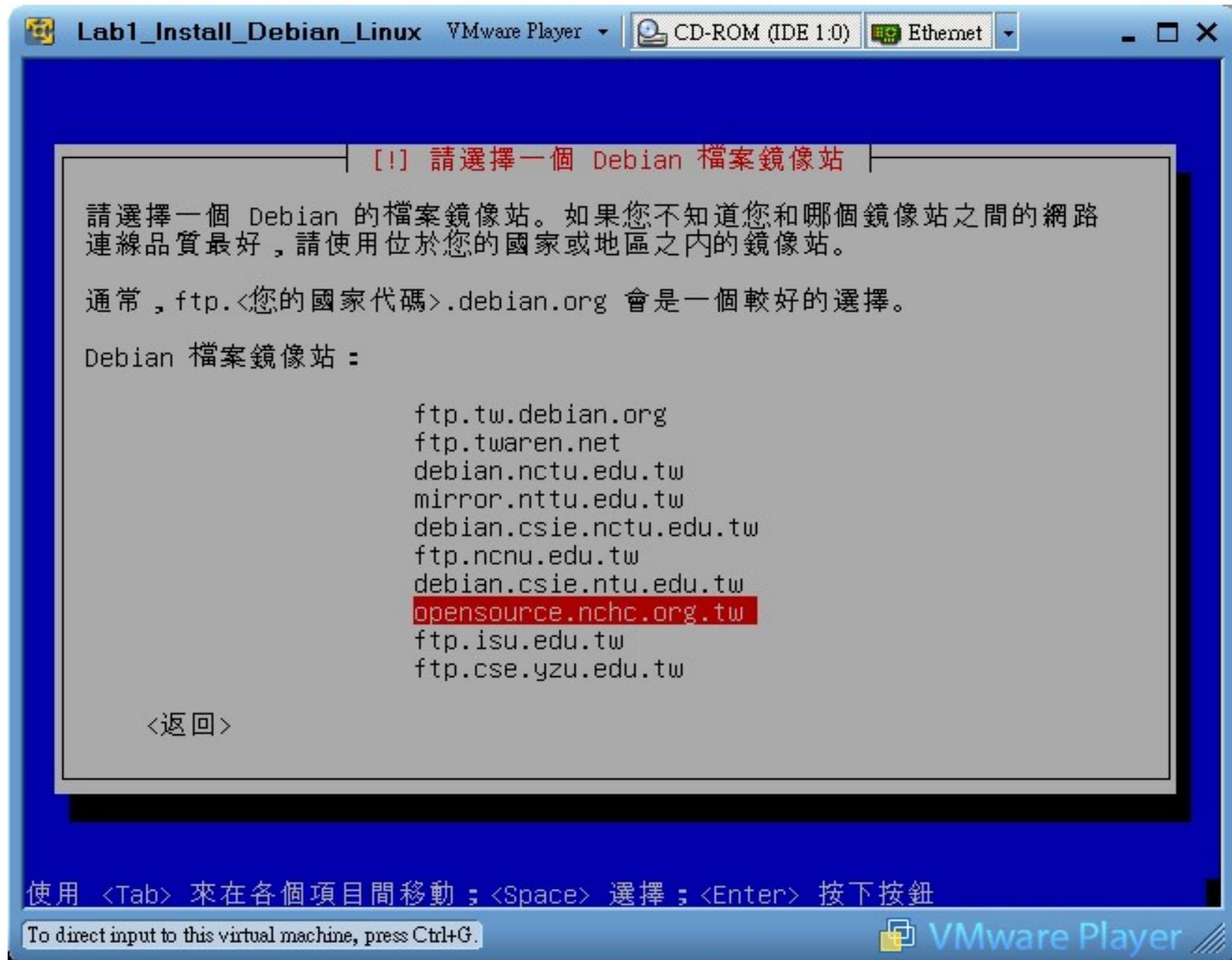


# 選擇『Debian 檔案映像站』(1) 台灣區



# 選擇『Debian 檔案映像站』(2)

## 推薦 [ftp.twaren.net](http://ftp.twaren.net) 或 [free.nchc.org.tw](http://free.nchc.org.tw)



## 選擇『Debian 檔案映象站』(3)

通常不需要輸入 Proxy，除非網路環境有限制



# 選擇『磁碟分割方式』

初學者建議採用第一種『引導 - 整顆硬碟』

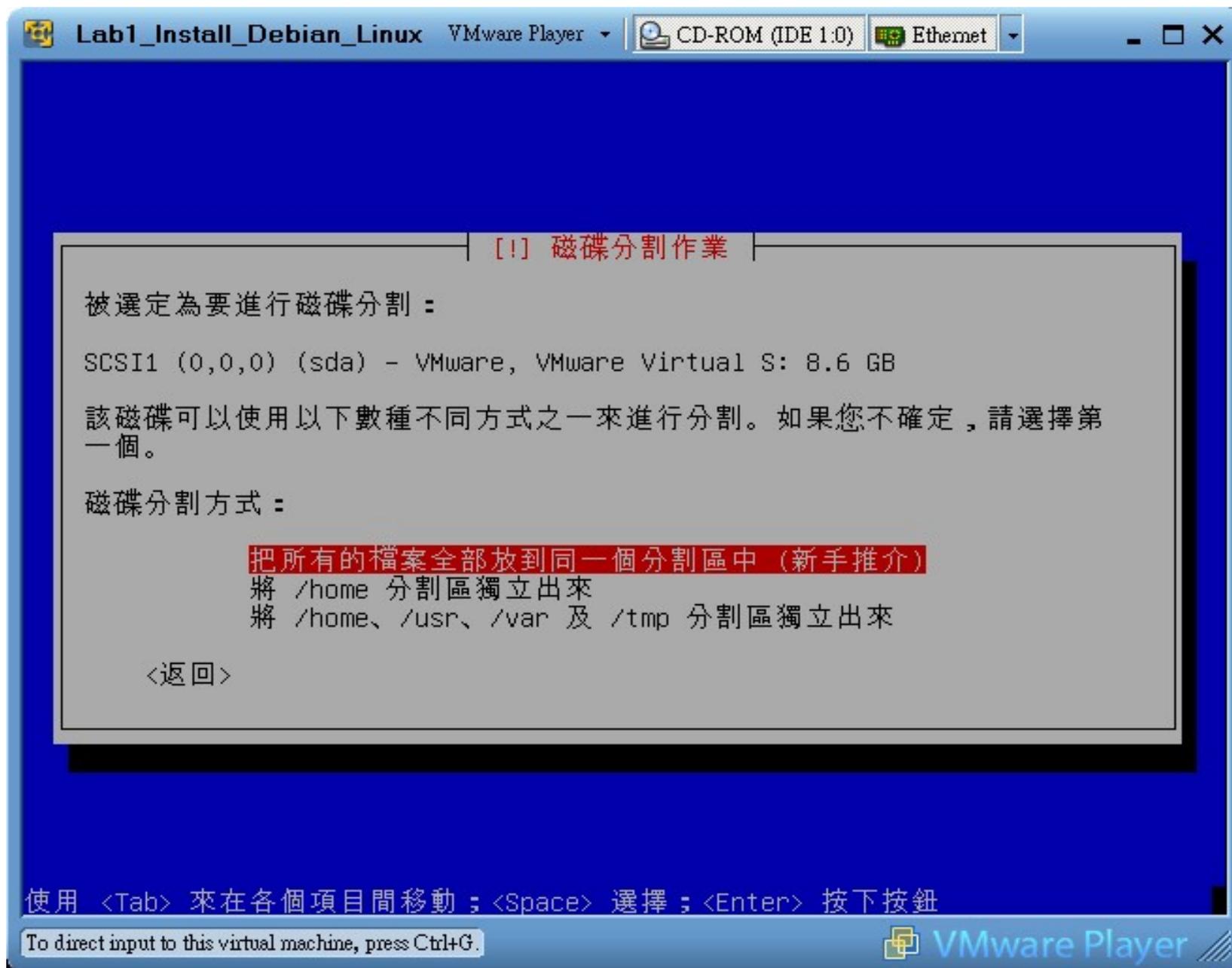


## 選擇『欲分割磁碟』

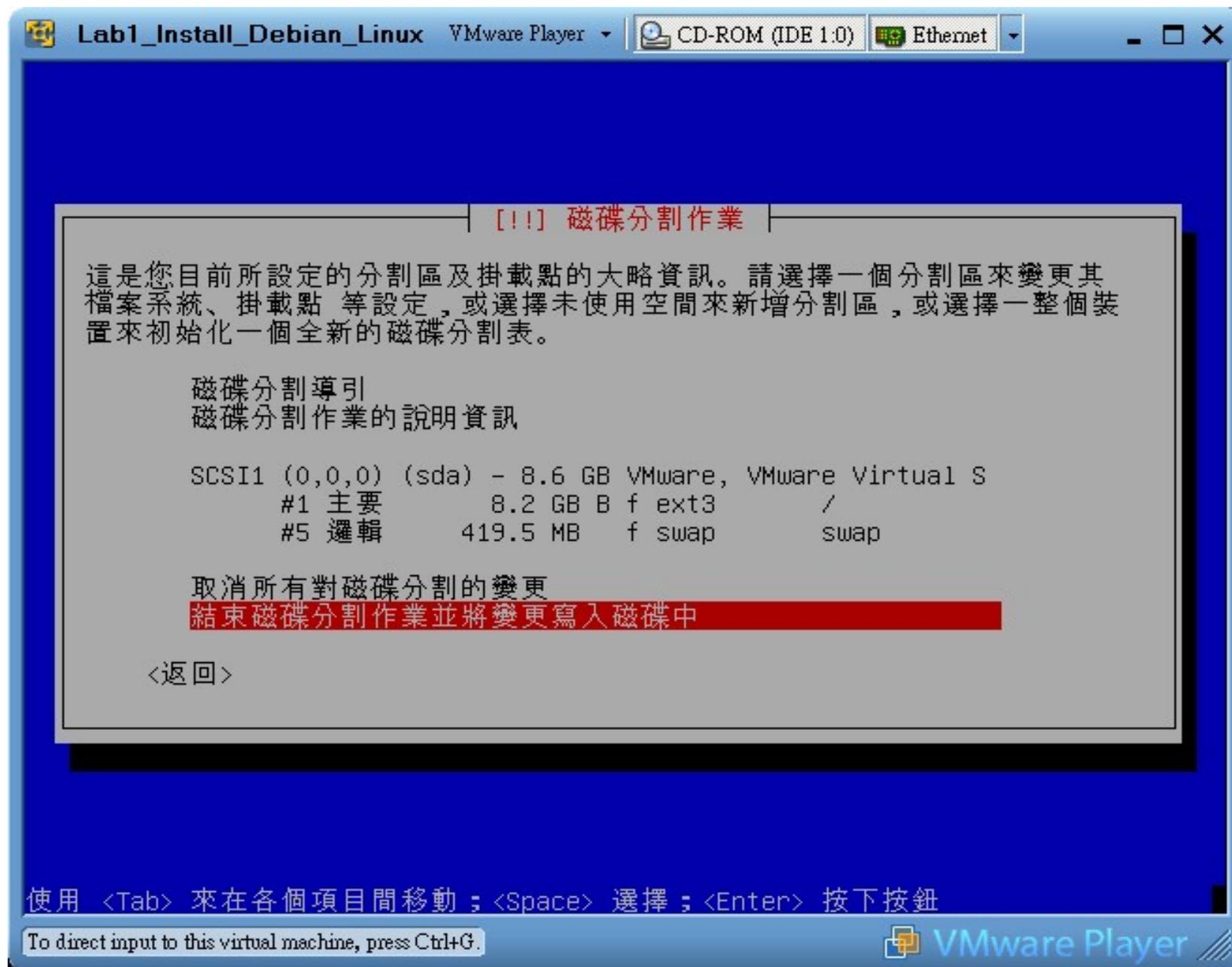
目前只有虛擬一顆硬碟，若實機有兩顆請小心！



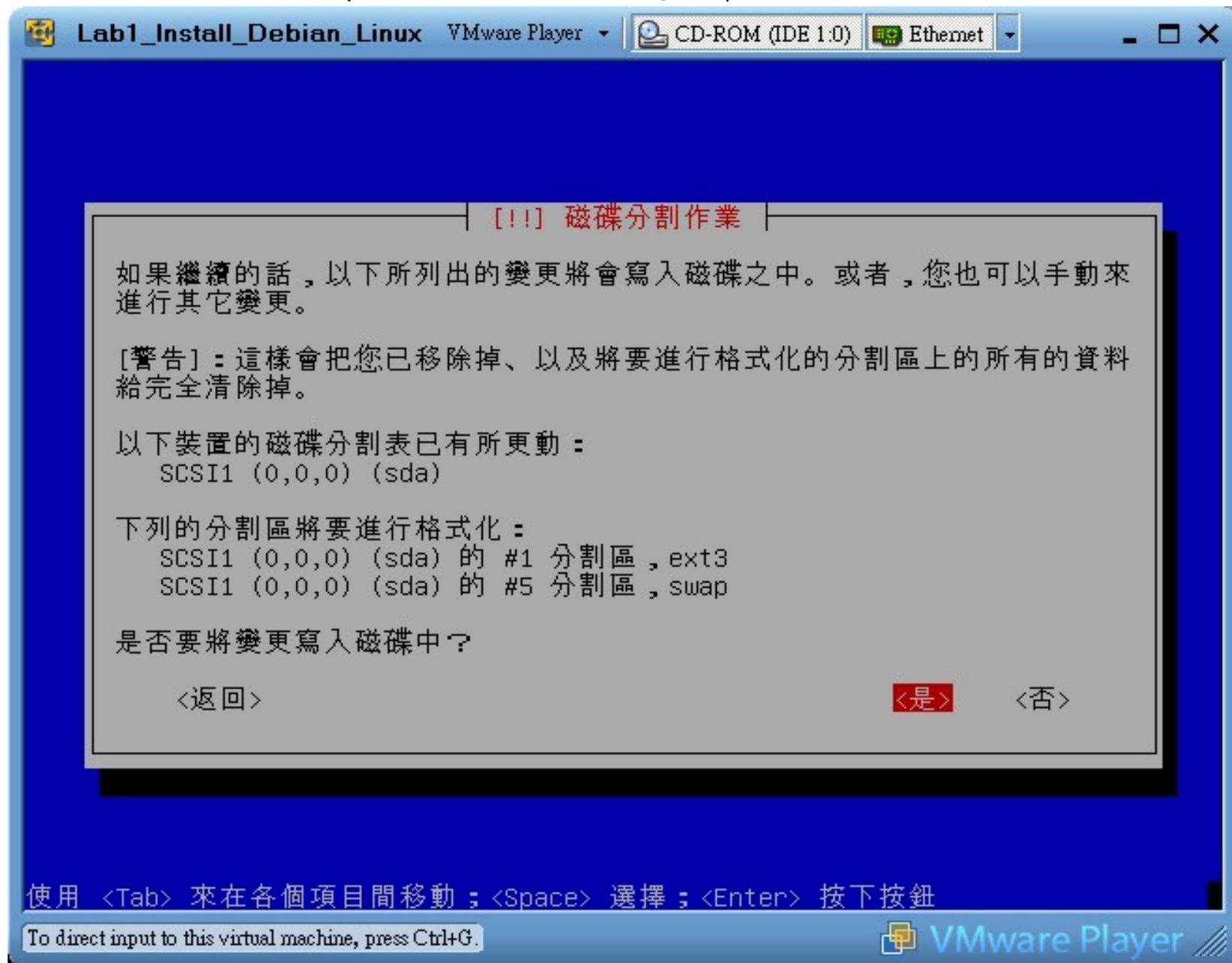
練習時可用同一個分割區，  
服務用系統請至少獨立出 /home 分割區



導引模式會切割兩個磁區，一個根目錄 (root)  
一個 swap (拿硬碟當記憶體空間用)



# 確認將目前的磁區分割表寫入硬碟 請用 TAB 選擇 <是>



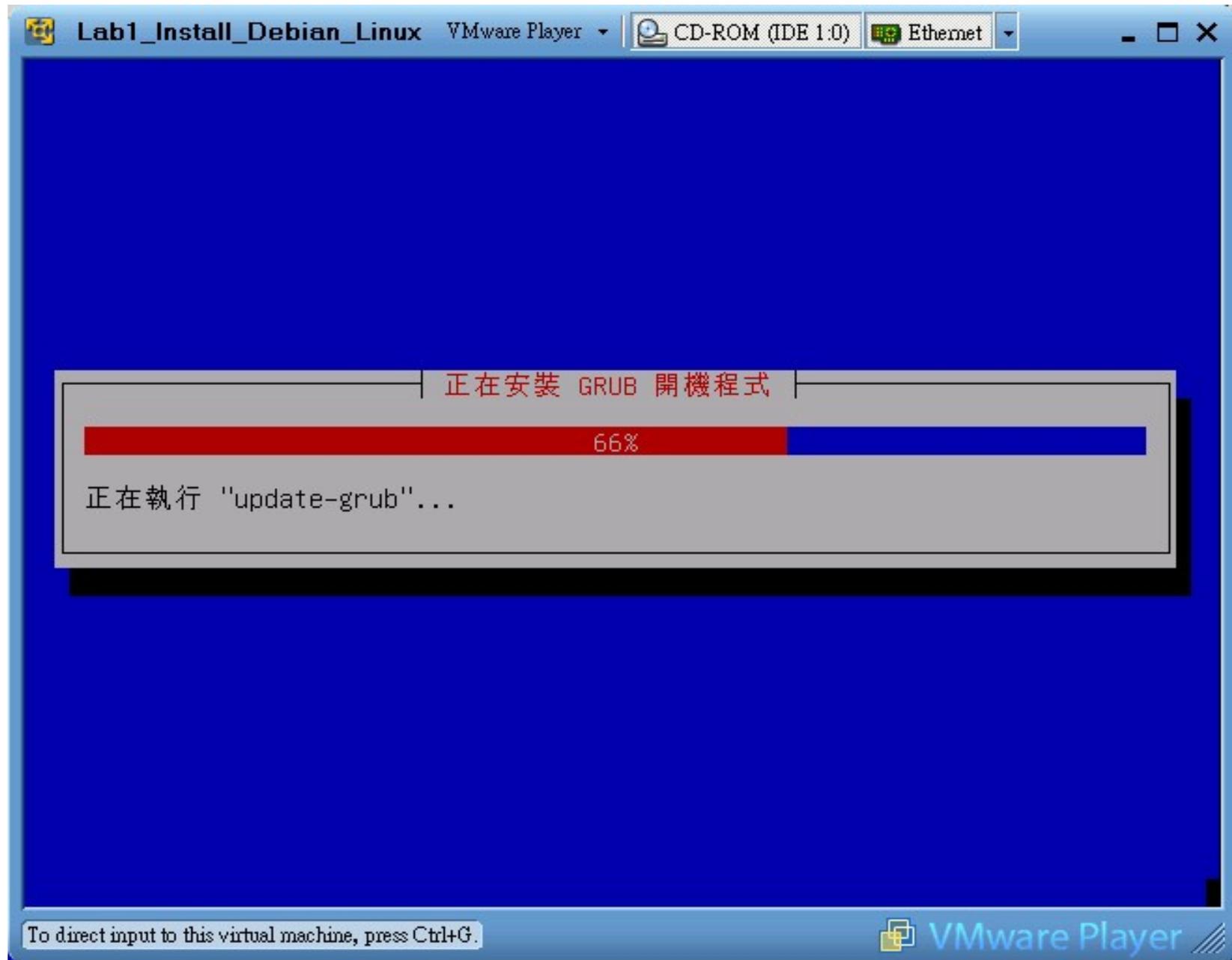
# 設定最高權限 root 管理者密碼



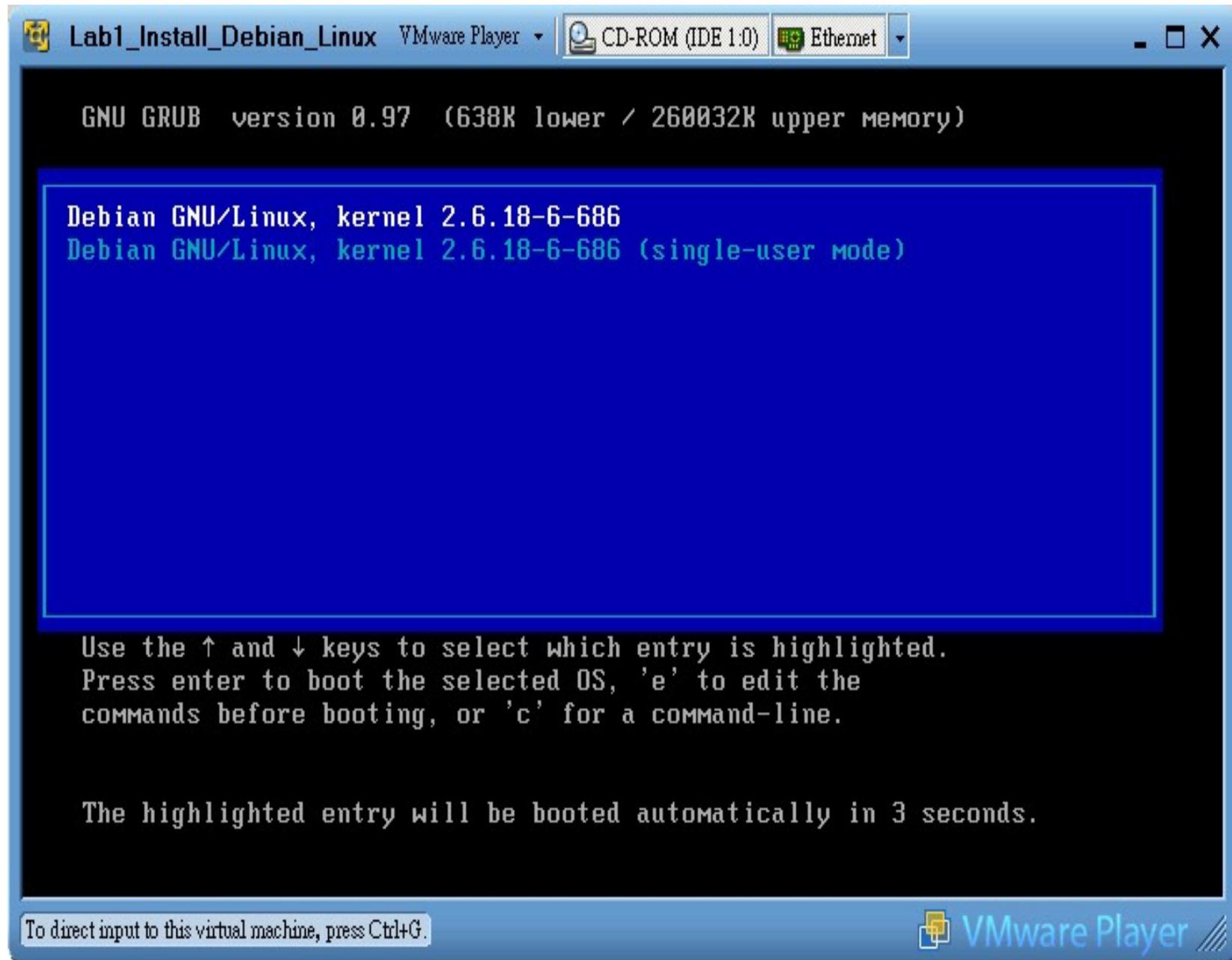
# 建立自己的帳號，習慣上不用 root 登入



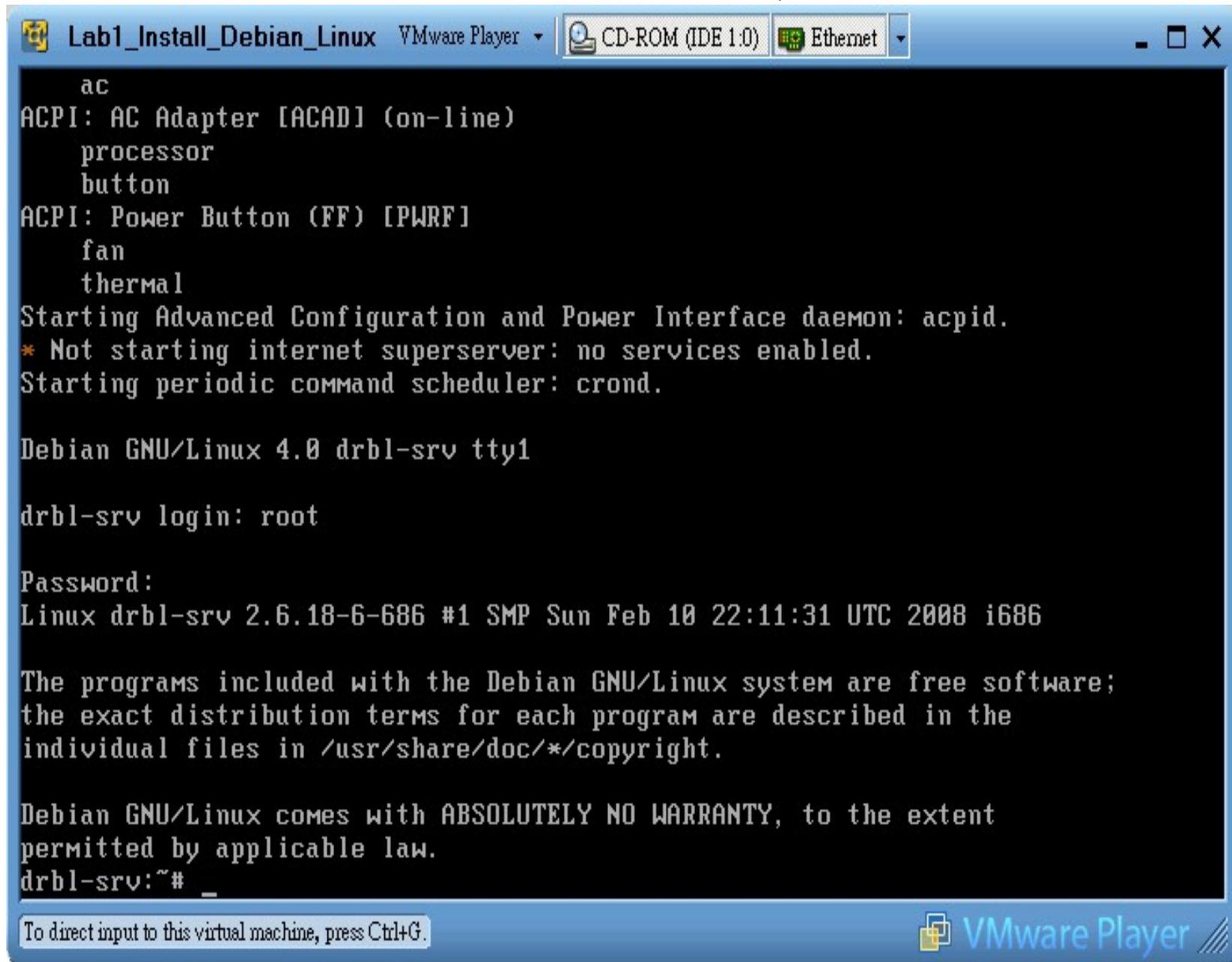
# 確認安裝 Grub Boot Loader



# 第一次系統開機



# 首次可使用 root 登入， 日後建議用一般身分登入



```
Lab1_Install_Debian_Linux VMware Player | CD-ROM (IDE 1:0) Ethernet |
ac
ACPI: AC Adapter [ACAD] (on-line)
processor
button
ACPI: Power Button (FF) [PWRF]
fan
thermal
Starting Advanced Configuration and Power Interface daemon: acpid.
* Not starting internet superserver: no services enabled.
Starting periodic command scheduler: crond.

Debian GNU/Linux 4.0 drbl-srv tty1

drbl-srv login: root

Password:
Linux drbl-srv 2.6.18-6-686 #1 SMP Sun Feb 10 22:11:31 UTC 2008 i686

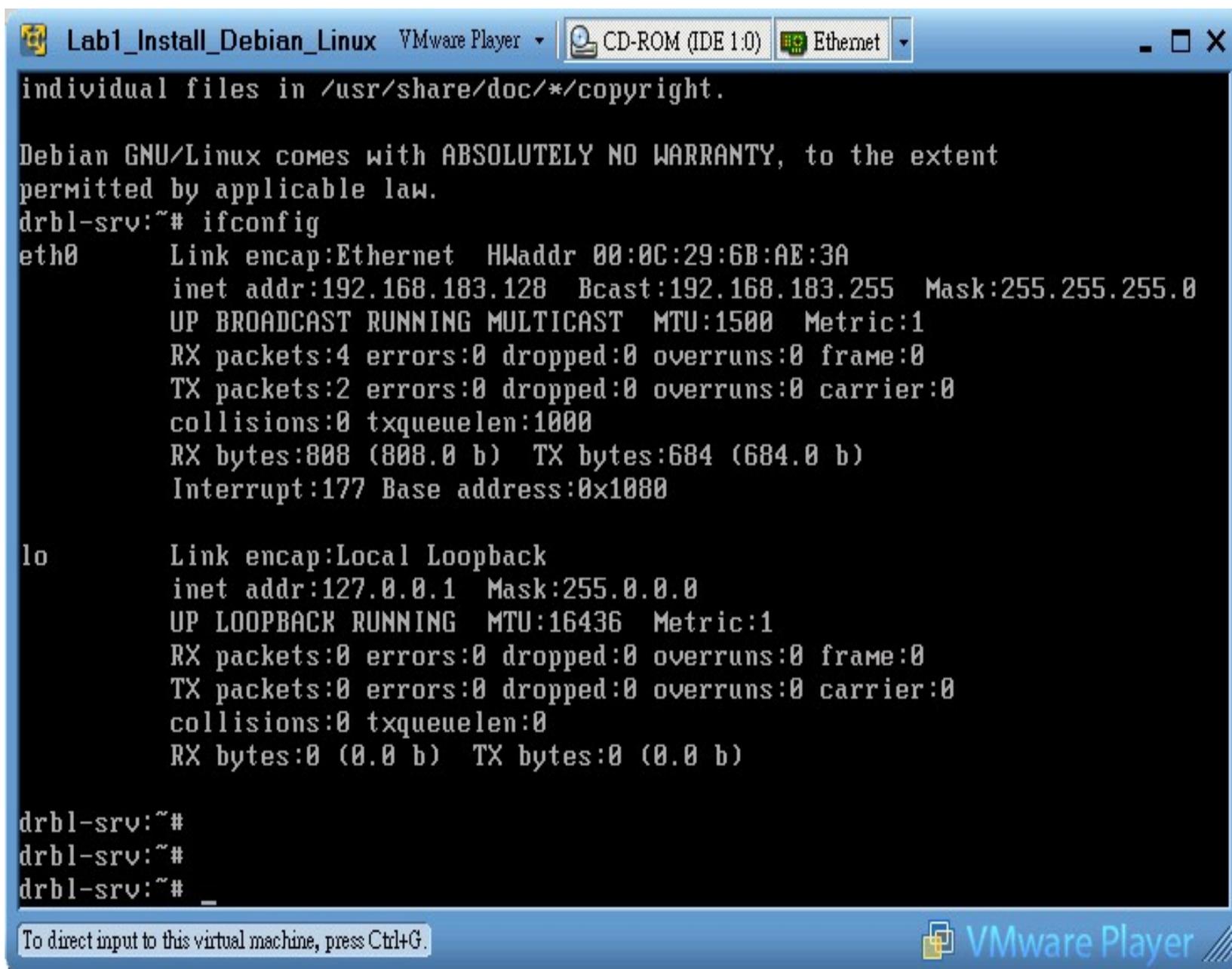
The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
drbl-srv:~# _
```

To direct input to this virtual machine, press Ctrl+G.

VMware Player

# 基本管理篇 [1] 用 ifconfig 確認網路連線

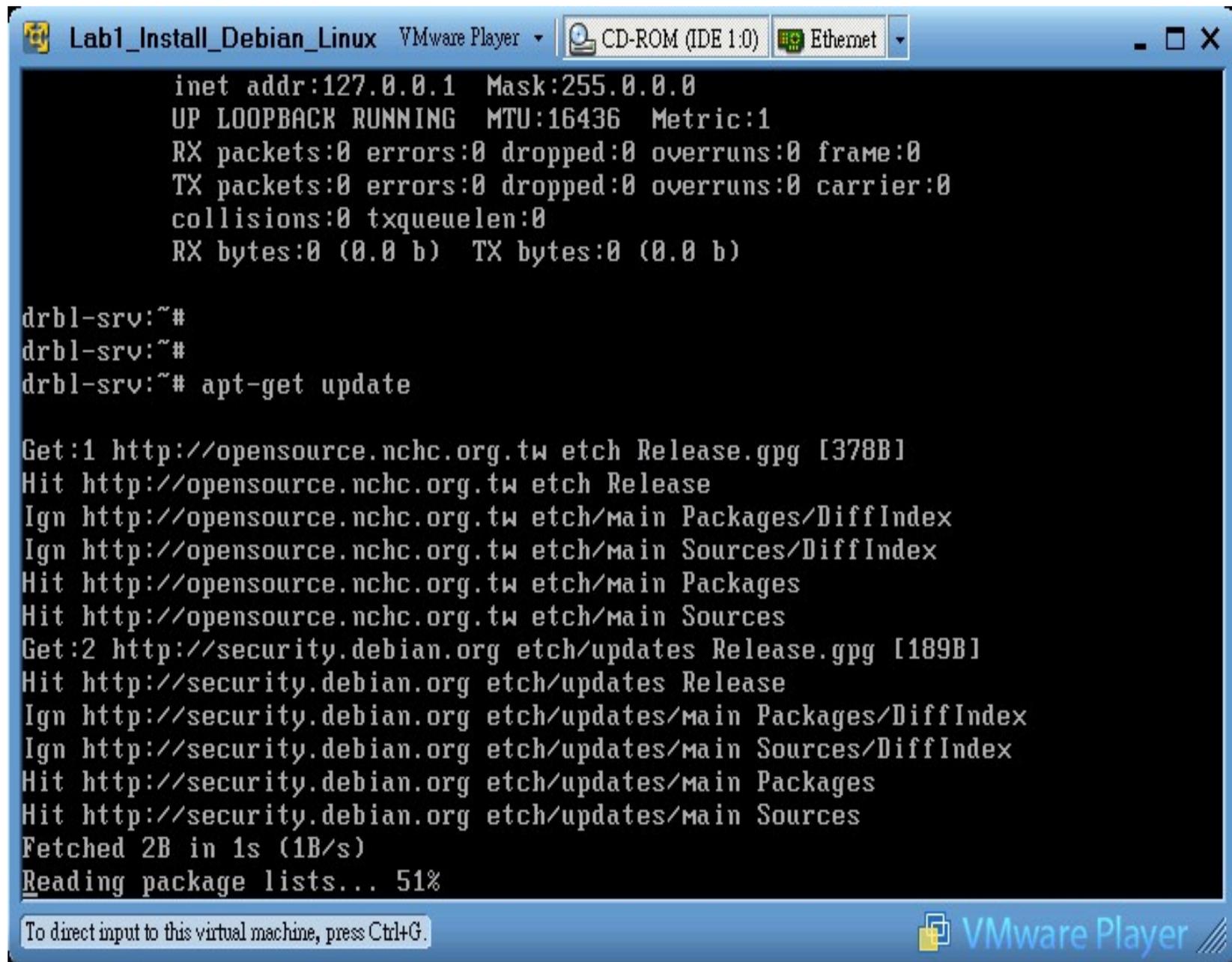


```
individual files in /usr/share/doc/*/copyright.  
  
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
drbl-srv:~# ifconfig  
eth0      Link encap:Ethernet  HWaddr 00:0C:29:6B:AE:3A  
          inet addr:192.168.183.128  Bcast:192.168.183.255  Mask:255.255.255.0  
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1  
          RX packets:4 errors:0 dropped:0 overruns:0 frame:0  
          TX packets:2 errors:0 dropped:0 overruns:0 carrier:0  
          collisions:0 txqueuelen:1000  
          RX bytes:808 (808.0 b)  TX bytes:684 (684.0 b)  
          Interrupt:177 Base address:0x1080  
  
lo        Link encap:Local Loopback  
          inet addr:127.0.0.1  Mask:255.0.0.0  
          UP LOOPBACK RUNNING  MTU:16436  Metric:1  
          RX packets:0 errors:0 dropped:0 overruns:0 frame:0  
          TX packets:0 errors:0 dropped:0 overruns:0 carrier:0  
          collisions:0 txqueuelen:0  
          RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)  
  
drbl-srv:~#  
drbl-srv:~#  
drbl-srv:~# _
```

To direct input to this virtual machine, press Ctrl+G.

VMware Player

# 基本管理篇 [2] 用 apt-get update 更新套件



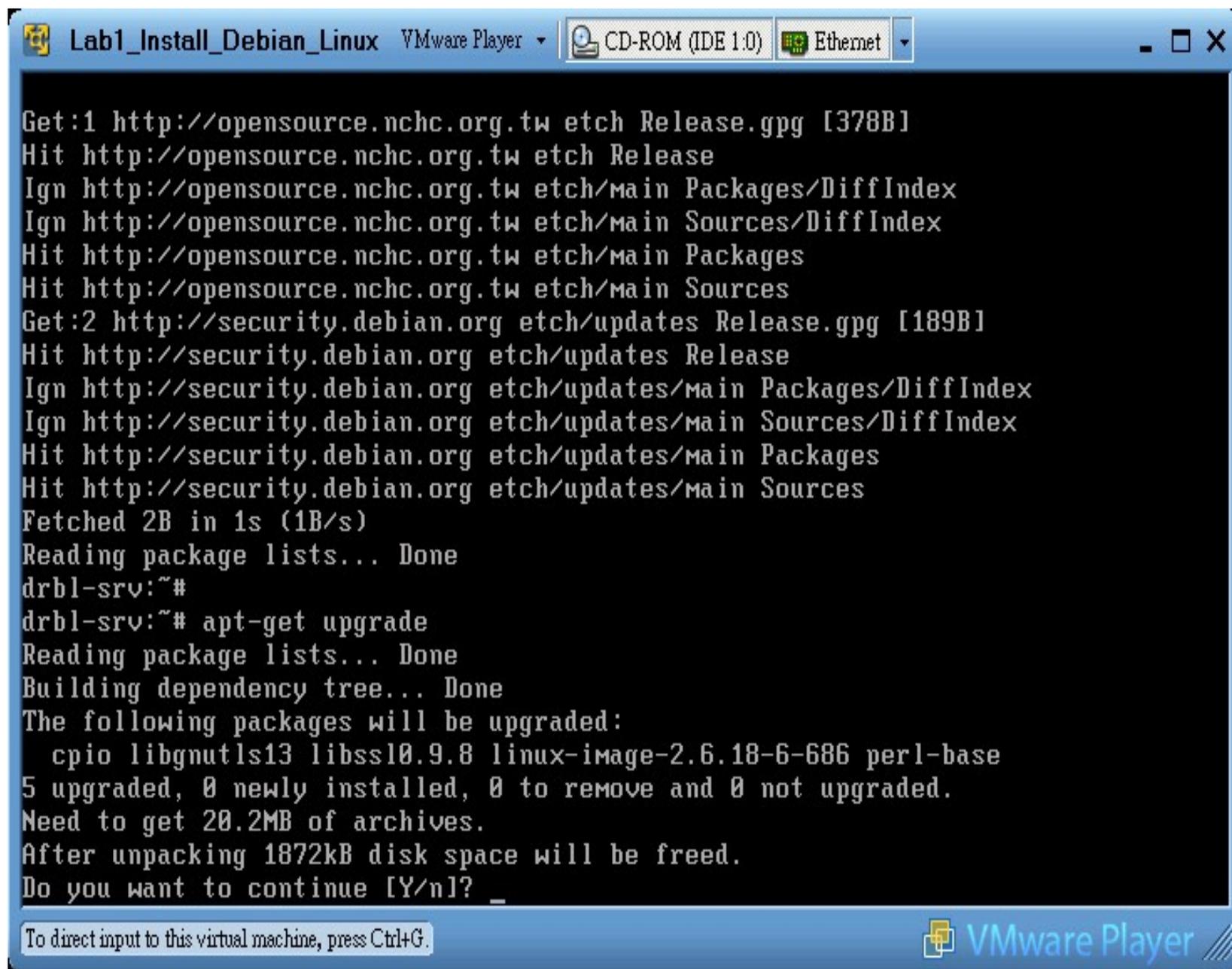
```
Lab1_Install_Debian_Linux VMware Player | CD-ROM (IDE 1:0) | Ethernet | . □ X
inet addr:127.0.0.1  Mask:255.0.0.0
UP LOOPBACK RUNNING  MTU:16436  Metric:1
RX packets:0 errors:0 dropped:0 overruns:0 frame:0
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:0
RX bytes:0 (0.0 b)  TX bytes:0 (0.0 b)

drbl-srv:~#
drbl-srv:~#
drbl-srv:~# apt-get update

Get:1 http://opensource.nchc.org.tw etch Release.gpg [378B]
Hit http://opensource.nchc.org.tw etch Release
Ign http://opensource.nchc.org.tw etch/main Packages/DiffIndex
Ign http://opensource.nchc.org.tw etch/main Sources/DiffIndex
Hit http://opensource.nchc.org.tw etch/main Packages
Hit http://opensource.nchc.org.tw etch/main Sources
Get:2 http://security.debian.org etch/updates Release.gpg [189B]
Hit http://security.debian.org etch/updates Release
Ign http://security.debian.org etch/updates/main Packages/DiffIndex
Ign http://security.debian.org etch/updates/main Sources/DiffIndex
Hit http://security.debian.org etch/updates/main Packages
Hit http://security.debian.org etch/updates/main Sources
Fetched 2B in 1s (1B/s)
Reading package lists... 51%
```

To direct input to this virtual machine, press Ctrl+G. VMware Player

# 基本管理篇 [3] 用 apt-get upgrade 升級系統



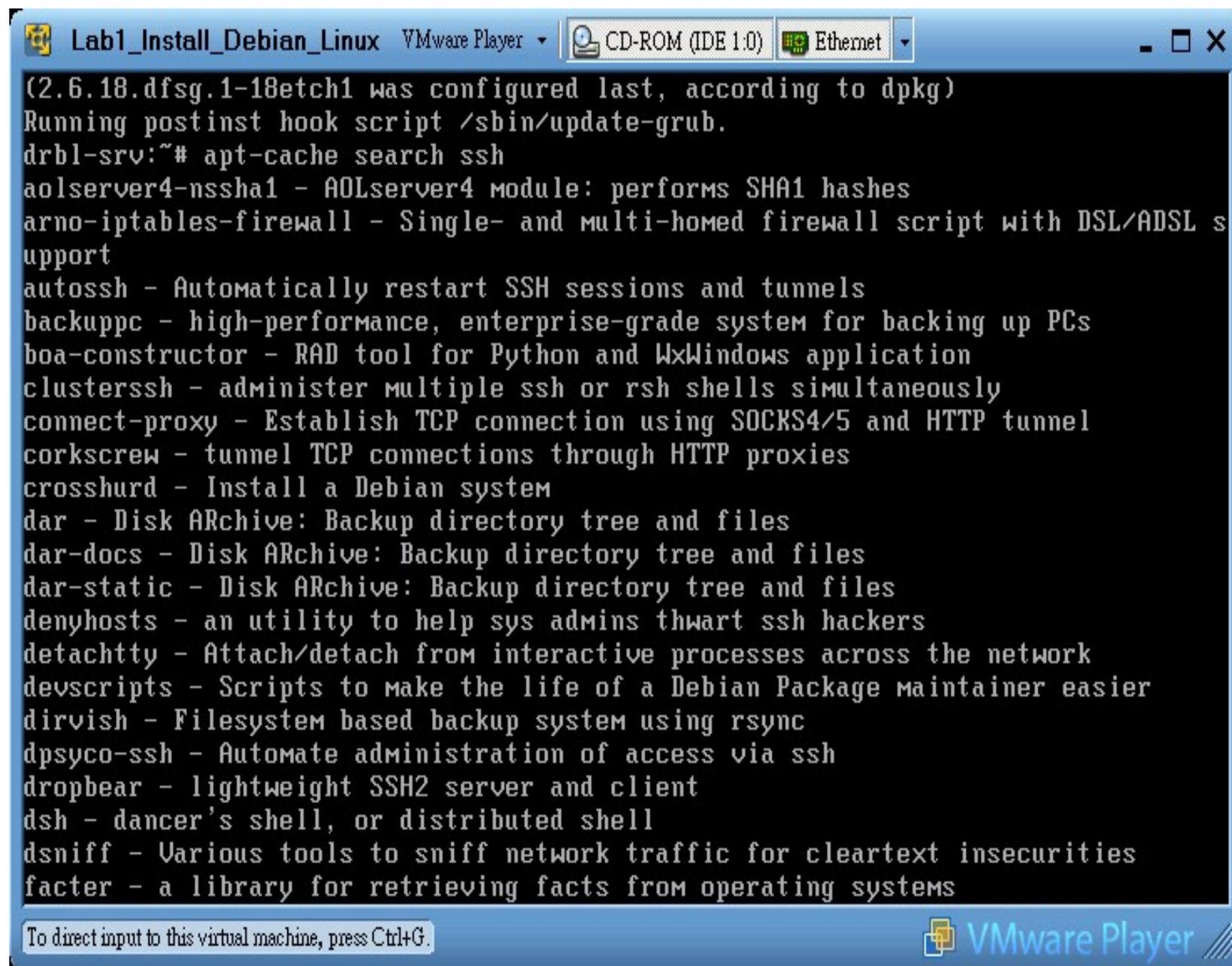
The screenshot shows a terminal window within a VMware Player. The window title is "Lab1\_Install\_Debian\_Linux" and it includes a menu bar with "VMware Player", "CD-ROM (IDE 1:0)", and "Ethernet". The terminal output shows the process of updating the system using apt-get. It lists the sources being updated, the packages to be upgraded, and the disk space requirements.

```
Get:1 http://opensource.nchc.org.tw etch Release.gpg [378B]
Hit http://opensource.nchc.org.tw etch Release
Ign http://opensource.nchc.org.tw etch/main Packages/DiffIndex
Ign http://opensource.nchc.org.tw etch/main Sources/DiffIndex
Hit http://opensource.nchc.org.tw etch/main Packages
Hit http://opensource.nchc.org.tw etch/main Sources
Get:2 http://security.debian.org etch/updates Release.gpg [189B]
Hit http://security.debian.org etch/updates Release
Ign http://security.debian.org etch/updates/main Packages/DiffIndex
Ign http://security.debian.org etch/updates/main Sources/DiffIndex
Hit http://security.debian.org etch/updates/main Packages
Hit http://security.debian.org etch/updates/main Sources
Fetched 2B in 1s (1B/s)
Reading package lists... Done
drbl-srv:~#
drbl-srv:~# apt-get upgrade
Reading package lists... Done
Building dependency tree... Done
The following packages will be upgraded:
  cpio libgnutls13 libssl0.9.8 linux-image-2.6.18-6-686 perl-base
5 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
Need to get 20.2MB of archives.
After unpacking 1872kB disk space will be freed.
Do you want to continue [Y/n]? _
```

To direct input to this virtual machine, press Ctrl+G.

VMware Player

# 基本管理篇 [4] 用 apt-cache search 搜尋

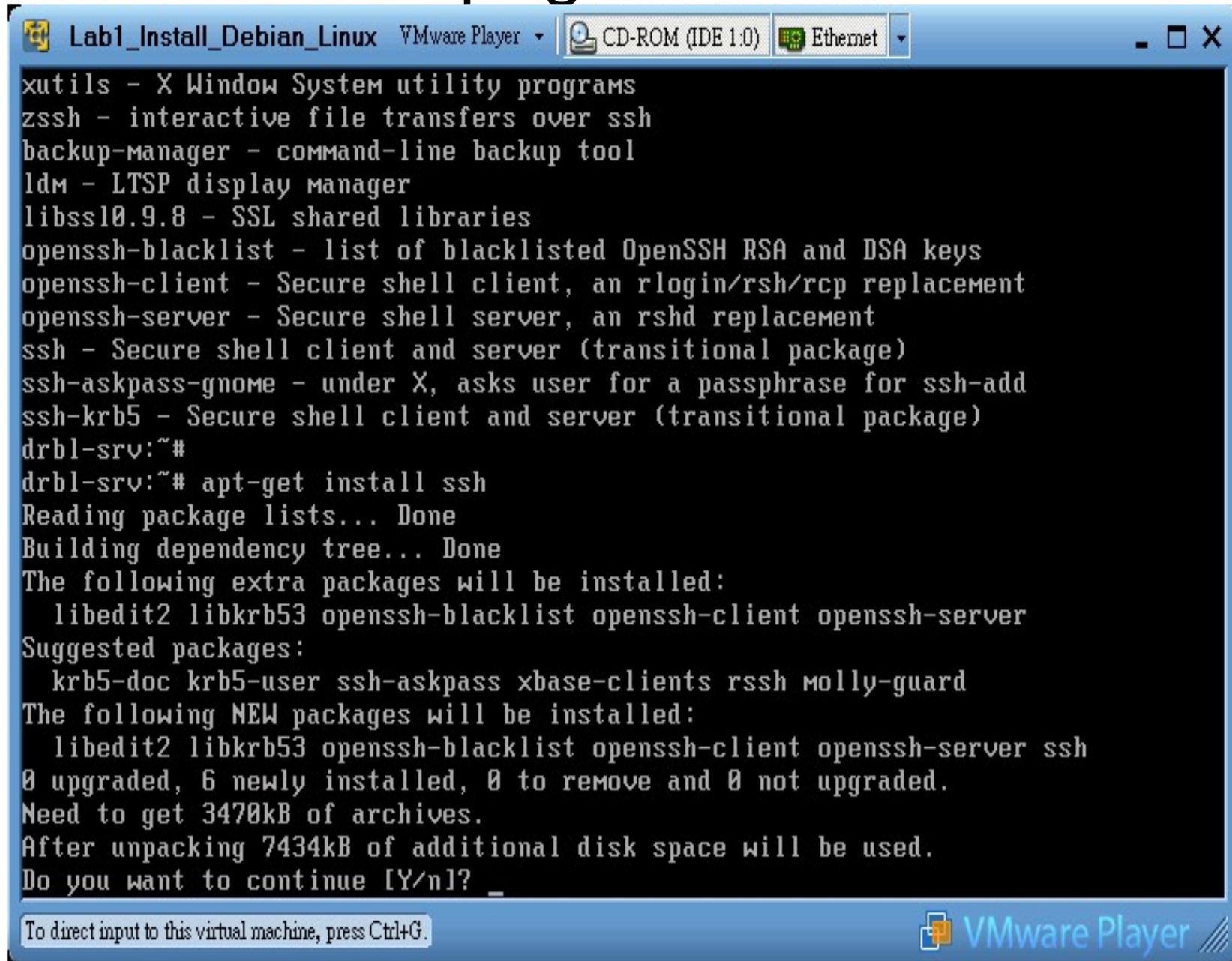


```
Lab1_Install_Debian_Linux VMware Player | CD-ROM (IDE 1:0) Ethernet | . □ X
(2.6.18.dfsg.1-18etch1 was configured last, according to dpkg)
Running postinst hook script /sbin/update-grub.
drbl-srv:~# apt-cache search ssh
aolserver4-nssha1 - AOLserver4 module: performs SHA1 hashes
arno-iptables-firewall - Single- and multi-homed firewall script with DSL/ADSL support
autossh - Automatically restart SSH sessions and tunnels
backuppc - high-performance, enterprise-grade system for backing up PCs
boa-constructor - RAD tool for Python and WxWindows application
clusterssh - administer multiple ssh or rsh shells simultaneously
connect-proxy - Establish TCP connection using SOCKS4/5 and HTTP tunnel
corkscrew - tunnel TCP connections through HTTP proxies
crosshurd - Install a Debian system
dar - Disk ARchive: Backup directory tree and files
dar-docs - Disk ARchive: Backup directory tree and files
dar-static - Disk ARchive: Backup directory tree and files
denyhosts - an utility to help sys admins thwart ssh hackers
detachtty - Attach/detach from interactive processes across the network
devscripts - Scripts to make the life of a Debian Package maintainer easier
dirvish - Filesystem based backup system using rsync
dpsyco-ssh - Automate administration of access via ssh
dropbear - lightweight SSH2 server and client
dsh - dancer's shell, or distributed shell
dsniff - Various tools to sniff network traffic for cleartext insecurities
factor - a library for retrieving facts from operating systems

To direct input to this virtual machine, press Ctrl+G. VMware Player
```

# 基本管理篇 [5] 用 apt-get install 安裝套件

## Ex. apt-get install ssh

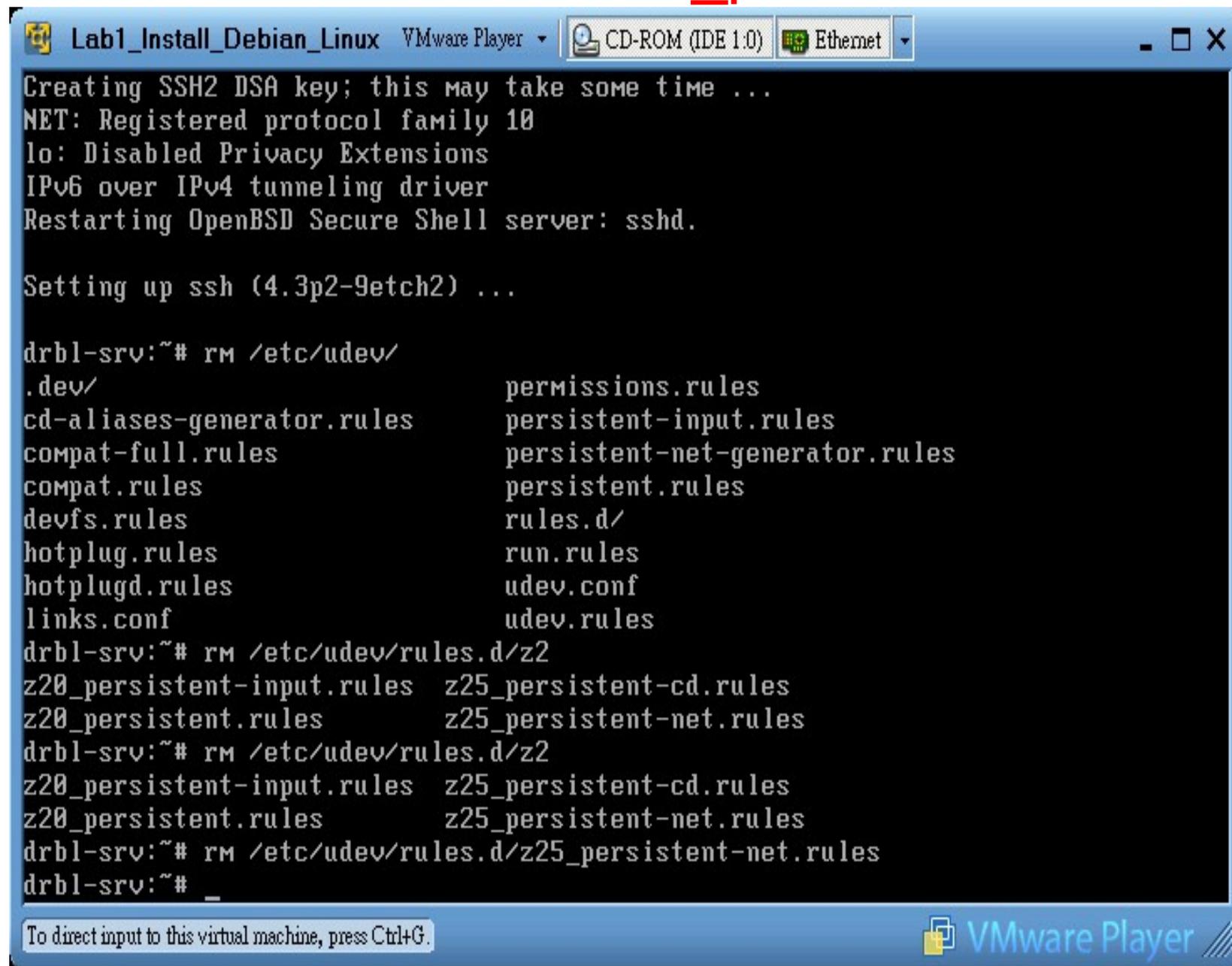


```
Lab1_Install_Debian_Linux VMware Player | CD-ROM (IDE 1:0) | Ethernet | . □ X
xutils - X Window System utility programs
zssh - interactive file transfers over ssh
backup-manager - command-line backup tool
ldm - LTSP display manager
libssl0.9.8 - SSL shared libraries
openssh-blacklist - list of blacklisted OpenSSH RSA and DSA keys
openssh-client - Secure shell client, an rlogin/rsh/rcp replacement
openssh-server - Secure shell server, an rshd replacement
ssh - Secure shell client and server (transitional package)
ssh-askpass-gnome - under X, asks user for a passphrase for ssh-add
ssh-krb5 - Secure shell client and server (transitional package)
drbl-srv:~#
drbl-srv:~# apt-get install ssh
Reading package lists... Done
Building dependency tree... Done
The following extra packages will be installed:
  libedit2 libkrb53 openssh-blacklist openssh-client openssh-server
Suggested packages:
  krb5-doc krb5-user ssh-askpass xbase-clients rssh molly-guard
The following NEW packages will be installed:
  libedit2 libkrb53 openssh-blacklist openssh-client openssh-server ssh
0 upgraded, 6 newly installed, 0 to remove and 0 not upgraded.
Need to get 3470kB of archives.
After unpacking 7434kB of additional disk space will be used.
Do you want to continue [Y/n]? _
```

To direct input to this virtual machine, press Ctrl+G. VMware Player

# 管理番外篇 [\*] 關於 udev 鎖住網卡 MAC

## rm /etc/udev/rules.d/z25\_persistent-net.rules



```
Lab1_Install_Debian_Linux VMware Player | CD-ROM (IDE 1:0) Ethernet | . □ X
Creating SSH2 DSA key; this may take some time ...
NET: Registered protocol family 10
lo: Disabled Privacy Extensions
IPv6 over IPv4 tunneling driver
Restarting OpenBSD Secure Shell server: sshd.

Setting up ssh (4.3p2-9etch2) ...

drbl-srv:~# rm /etc/udev/
.dev/
permissions.rules
cd-aliases-generator.rules persistent-input.rules
compat-full.rules persistent-net-generator.rules
compat.rules persistent.rules
devfs.rules rules.d/
hotplug.rules run.rules
hotplugd.rules udev.conf
links.conf udev.rules
drbl-srv:~# rm /etc/udev/rules.d/z2
z20_persistent-input.rules z25_persistent-cd.rules
z20_persistent.rules z25_persistent-net.rules
drbl-srv:~# rm /etc/udev/rules.d/z2
z20_persistent-input.rules z25_persistent-cd.rules
z20_persistent.rules z25_persistent-net.rules
drbl-srv:~# rm /etc/udev/rules.d/z25_persistent-net.rules
drbl-srv:~# _
```

To direct input to this virtual machine, press Ctrl+G.

VMware Player

# 基本管理篇 [6] 用 halt -n 關機

```
Lab1_Install_Debian_Linux VMware Player | CD-ROM (IDE 1:0) Ethernet |
compat.rules                persistent.rules
devfs.rules                 rules.d/
hotplug.rules              run.rules
hotplugd.rules             udev.conf
links.conf                  udev.rules
drbl-srv:~# rm /etc/udev/rules.d/z2
z20_persistent-input.rules  z25_persistent-cd.rules
z20_persistent.rules        z25_persistent-net.rules
drbl-srv:~# rm /etc/udev/rules.d/z2
z20_persistent-input.rules  z25_persistent-cd.rules
z20_persistent.rules        z25_persistent-net.rules
drbl-srv:~# rm /etc/udev/rules.d/z25_persistent-net.rules
drbl-srv:~# halt -n

Broadcast message from root@drbl-srv (tty1) (Thu Jul 17 08:55:29 2008):

The system is going down for system halt NOW!
INIT: Switching to runlevel: 0
INIT: Sending processes the TERM signal
drbl-srv:~# Stopping periodic command scheduler: crond.
Stopping Advanced Configuration and Power Interface daemon: acpid.
Stopping internet superserver: inetd.
Stopping OpenBSD Secure Shell server: sshd.
Saving the system clock..
_

To direct input to this virtual machine, press Ctrl+G. VMware Player
```