



國立臺灣科技大學
**TAIWAN
TECH** National Taiwan University of
Science and Technology

主題一

Raspberry Pi and Laptop Setup

電子工程總整課程 Capstone
陳永耀 Yung Yao Chen

Outline

- Raspberry Pi system 燒錄
- Virtualbox setup



Raspberry Pi system 燒錄

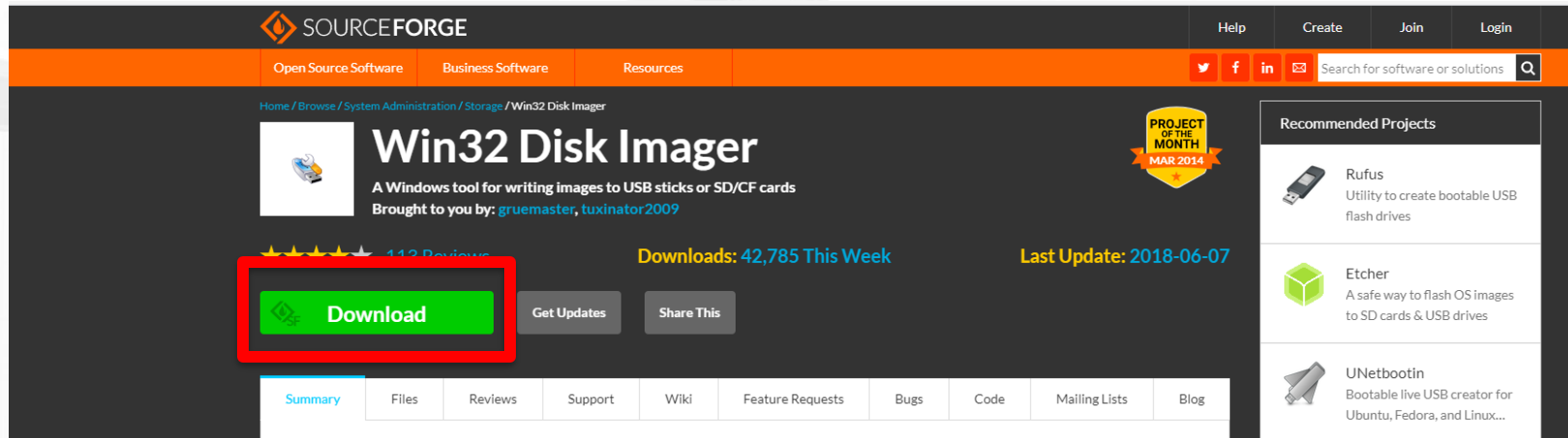
- 步驟：
 1. 下載映像檔 (image)
 2. 透過燒錄軟體將映像檔燒到 SD 卡
 3. 將 SD 卡插到 Raspberry Pi & 上電

下載映像檔 (image)

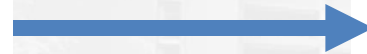
- URL : [Resize_NTUST_110708_DuckieBot.img](#)

下載燒錄軟體

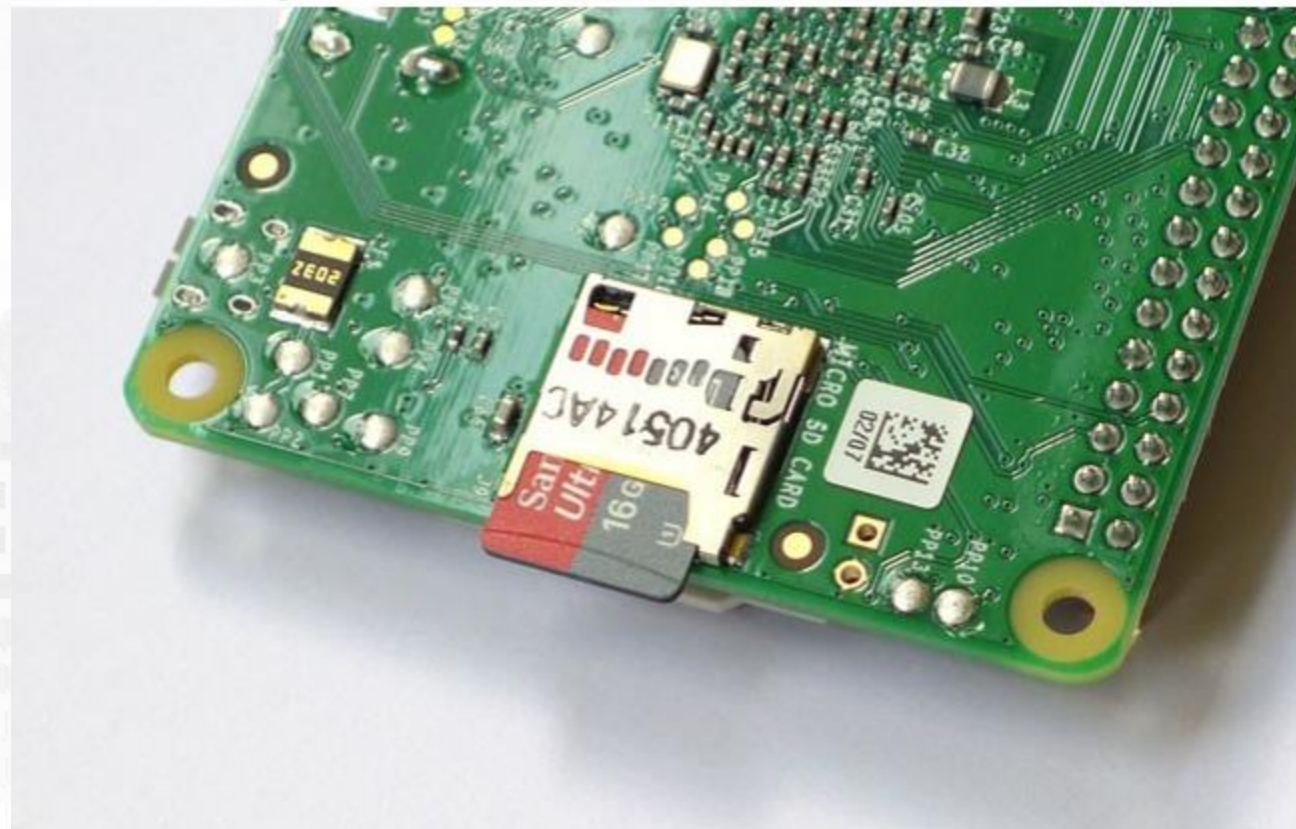
- Windows 下載 Win32 Disk Imager
- <http://sourceforge.net/projects/win32diskimager>



Win32 Disk Imager 燒錄映像檔



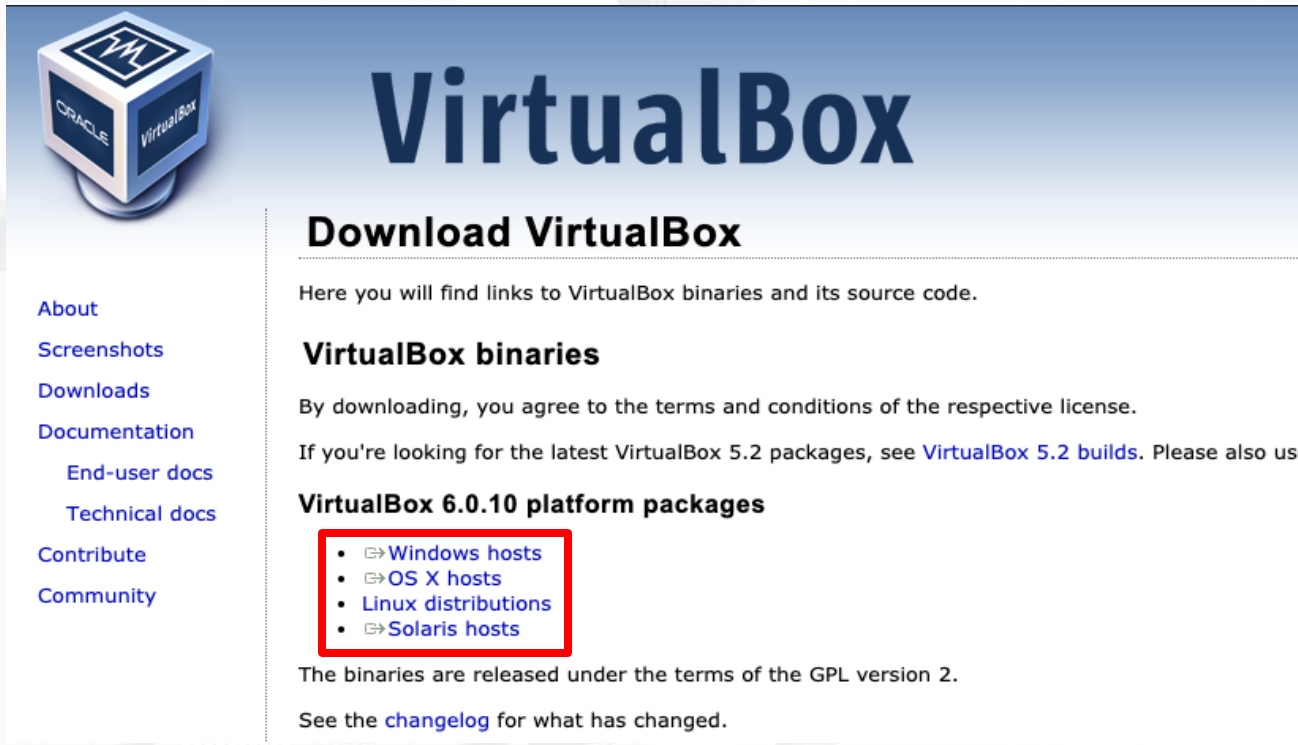
再將 microSD 卡插到 Pi 上 😊



Virtualbox installation

下載與安裝 Virtualbox :

- URL : <https://www.virtualbox.org/wiki/Downloads>



The screenshot shows the VirtualBox website. On the left is a sidebar with navigation links: About, Screenshots, Downloads, Documentation (with sub-links for End-user docs and Technical docs), Contribute, and Community. The main content area has the VirtualBox logo at the top, followed by the heading 'Download VirtualBox'. Below this, it states 'Here you will find links to VirtualBox binaries and its source code.' and 'VirtualBox binaries'. A paragraph follows: 'By downloading, you agree to the terms and conditions of the respective license. If you're looking for the latest VirtualBox 5.2 packages, see [VirtualBox 5.2 builds](#). Please also use'. Below this is the section 'VirtualBox 6.0.10 platform packages' which contains a bulleted list of links: 'Windows hosts', 'OS X hosts', 'Linux distributions', and 'Solaris hosts'. This list is enclosed in a red rectangular box. At the bottom of the main content area, it says 'The binaries are released under the terms of the GPL version 2. See the [changelog](#) for what has changed.'

VirtualBox

Download VirtualBox

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

VirtualBox binaries

By downloading, you agree to the terms and conditions of the respective license.

If you're looking for the latest VirtualBox 5.2 packages, see [VirtualBox 5.2 builds](#). Please also use

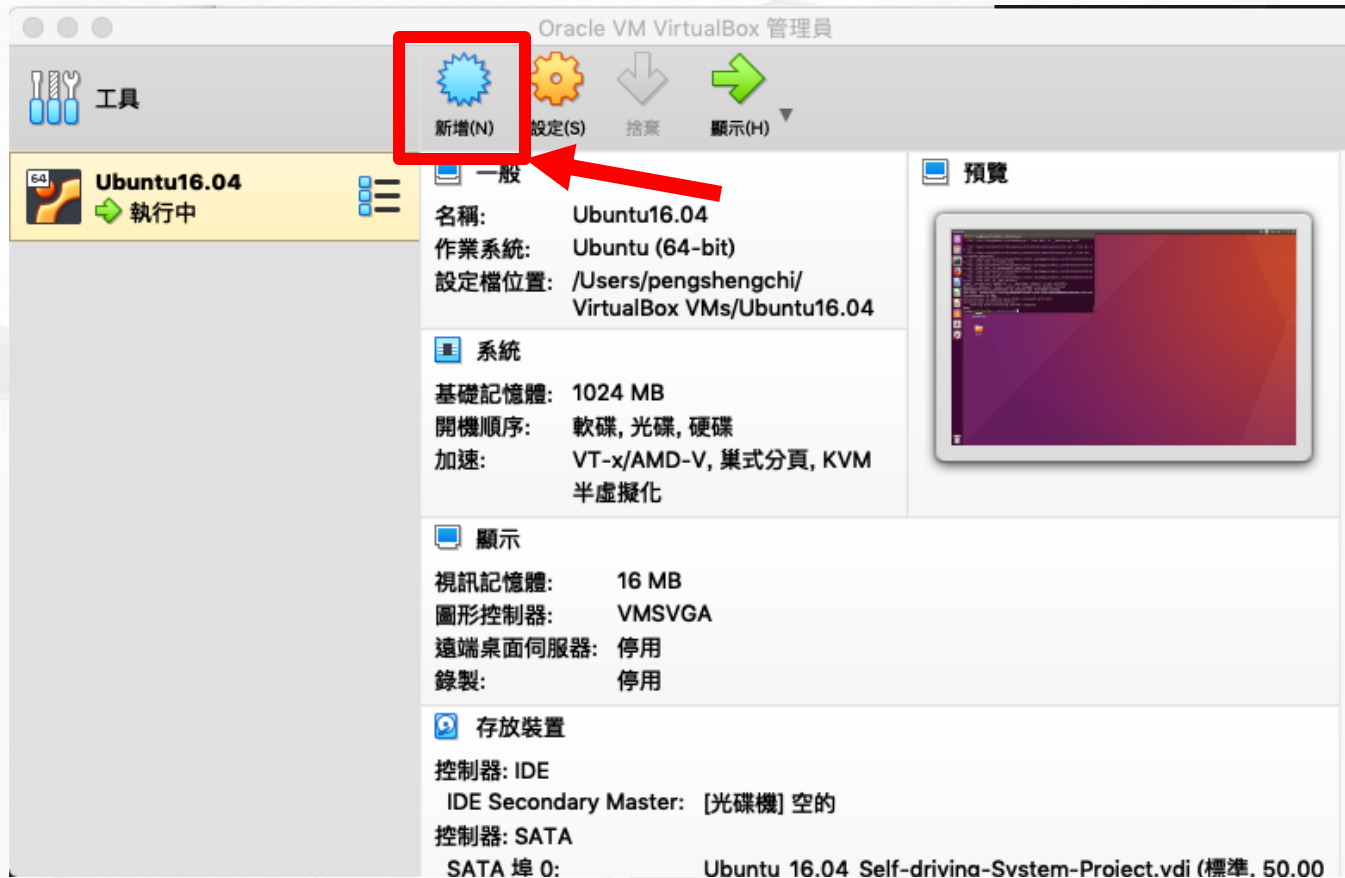
VirtualBox 6.0.10 platform packages

- [Windows hosts](#)
- [OS X hosts](#)
- [Linux distributions](#)
- [Solaris hosts](#)

The binaries are released under the terms of the GPL version 2.

See the [changelog](#) for what has changed.

Virtualbox Installation



新增虛擬機

Virtualbox Installation

VirtualBox setup:

Name : Name it

Type : Linux

Version : Ubuntu(64bit)

Memory size : 2048MB

vdi file : Ubuntu_16.04_Self-driving-System-Project.vdi

VDI

URL: [duckietown-vm.vdi](#)

名稱和作業系統

名稱:

機器資料夾:

類型:

版本:

記憶體大小

2048 MB

4 MB 16384 MB

硬碟

☐ 不加入虛擬硬碟

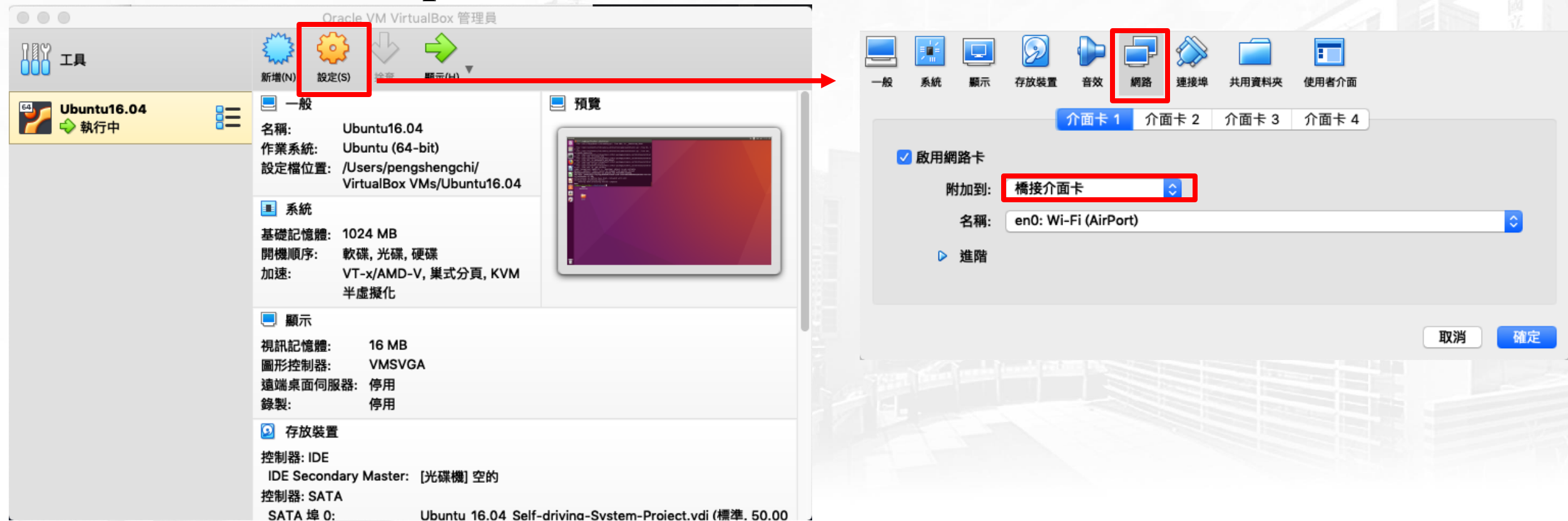
☐ 立即建立虛擬硬碟

☒ 使用現有虛擬硬碟檔案

引導模式 上一步 建立 取消

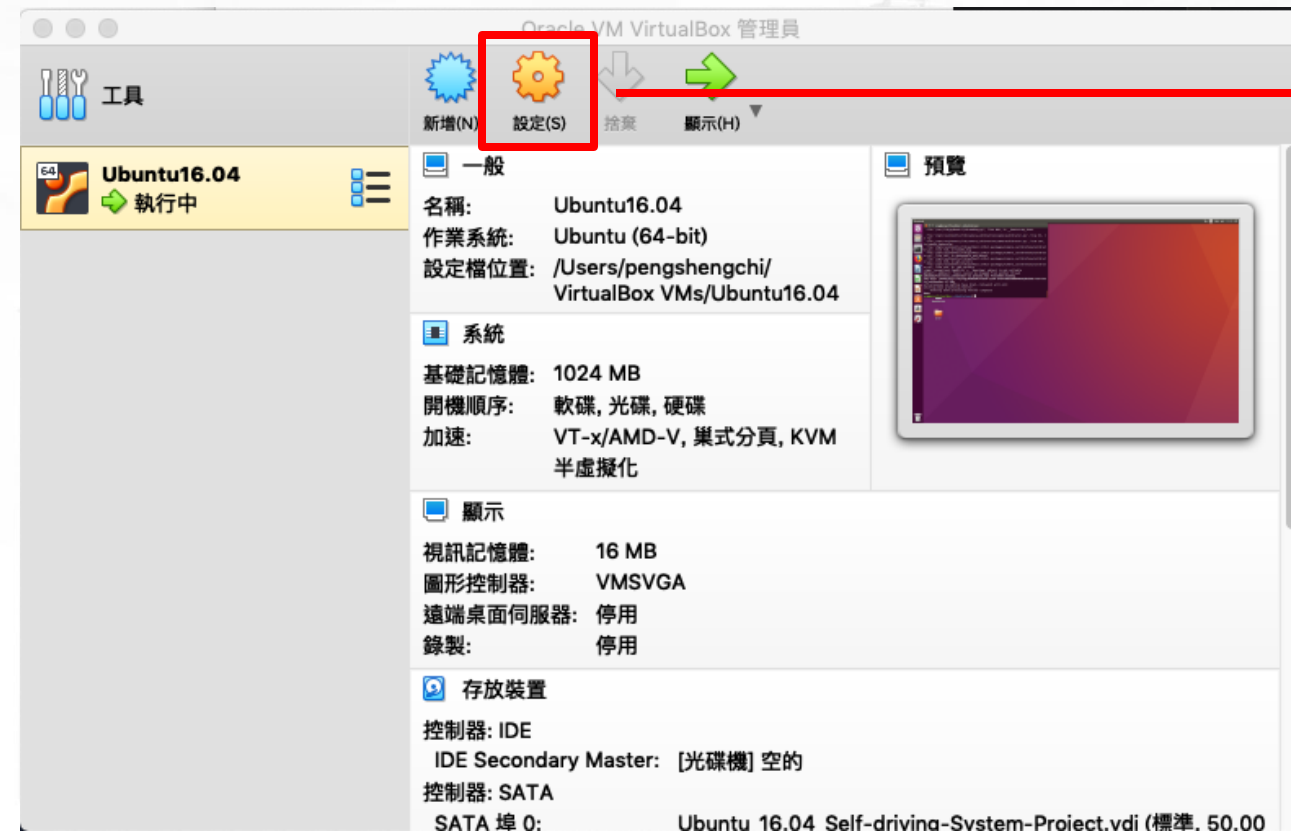
Virtualbox Installation

- Network setup



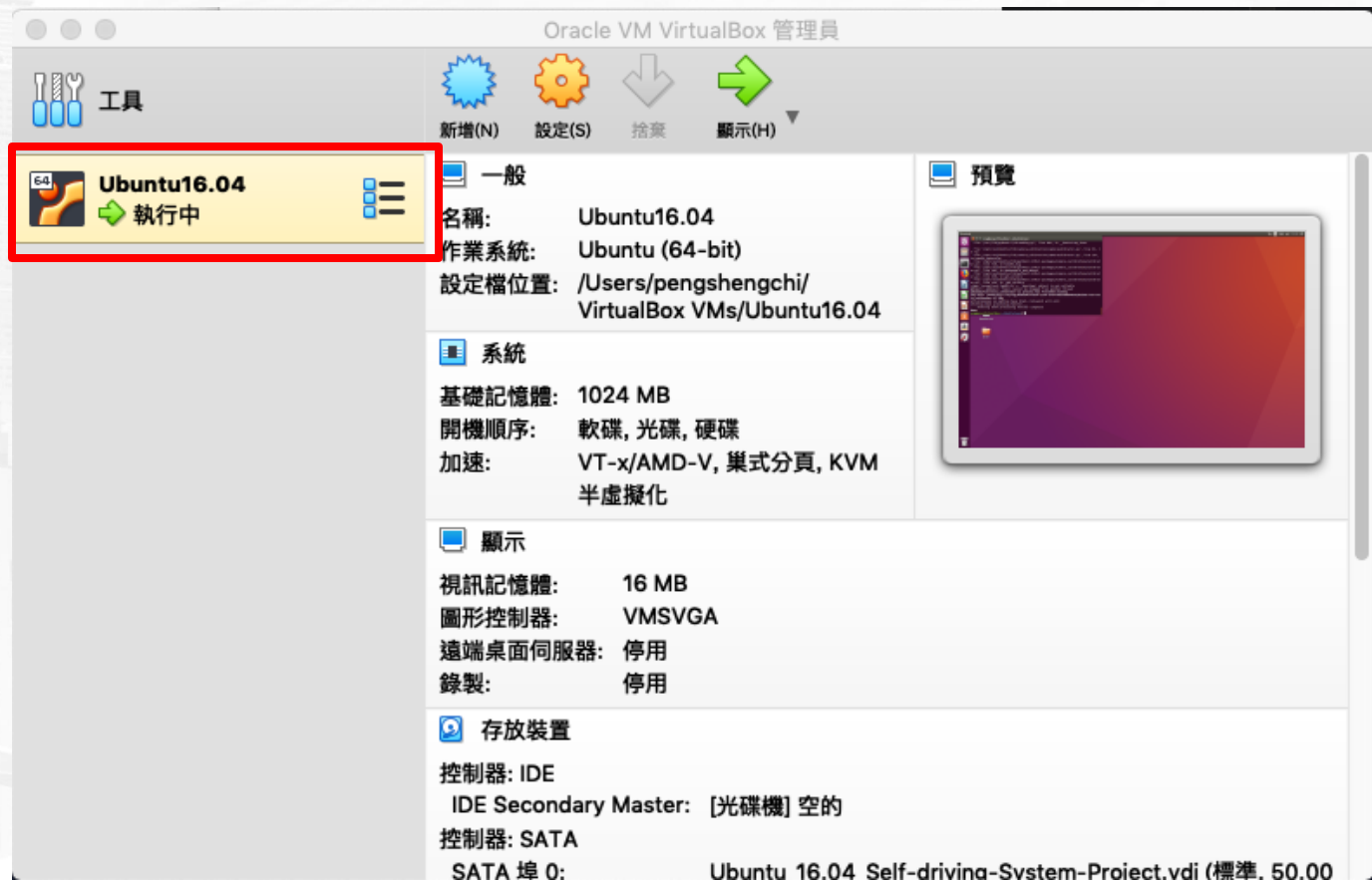
Virtualbox Installation

- 將剪貼簿和拖曳設成雙向



Virtualbox Installation

- 啟動 Virtualbox
- 密碼: **ubuntu**



基本設定這邊就到一個段落

