

RISC-V tools

Environment Setup

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- In order to compile and run the program in RISC-V, some tools is essential.
 - RISCV-tools
 - RISCV-toolchain
 - Spike ...etc.
- TA has provided an virtual machine image. By using the image, there is no need to install the tools again.

Download Image

- Download URL:

<https://drive.google.com/file/d/1E5R6zKtg75qVub0G51HKRjSXric6TKaa/view?usp=sharing>

- The image size is about 5GB. Please make sure there is enough disk space.

Install VirtualBox

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



VirtualBox
Welcome to VirtualBox.org!

VirtualBox is a powerful x86 and AMD64/Intel64 [virtualization](#) product for enterprise as well as home use. Not only is VirtualBox an extremely feature rich, the only professional solution that is freely available as Open Source Software under the terms of the GNU General Public License (GPL) version 2. See "[About](#)" for more information.

Presently, VirtualBox runs on Windows, Linux, Macintosh, and Solaris hosts and supports a large number of [guest operating systems](#) including but not limited to Windows 7, Windows 8, Windows 10), DOS/Windows 3.x, Linux (2.4, 2.6, 3.x and 4.x), Solaris and OpenSolaris, OS/2, and OpenBSD.

VirtualBox is being actively developed with frequent releases and has an ever growing list of features, supported guest operating systems and platforms it can run on. Oracle is a dedicated company: everyone is encouraged to contribute while Oracle ensures the product always meets professional quality criteria.

**Download
VirtualBox 6.1**

Hot picks:

- Pre-built virtual machines for developers at [Oracle Tech Network](#)
- **Hyperbox** Open-source Virtual Infrastructure Manager [project site](#)
- **phpVirtualBox** AJAX web interface [project site](#)

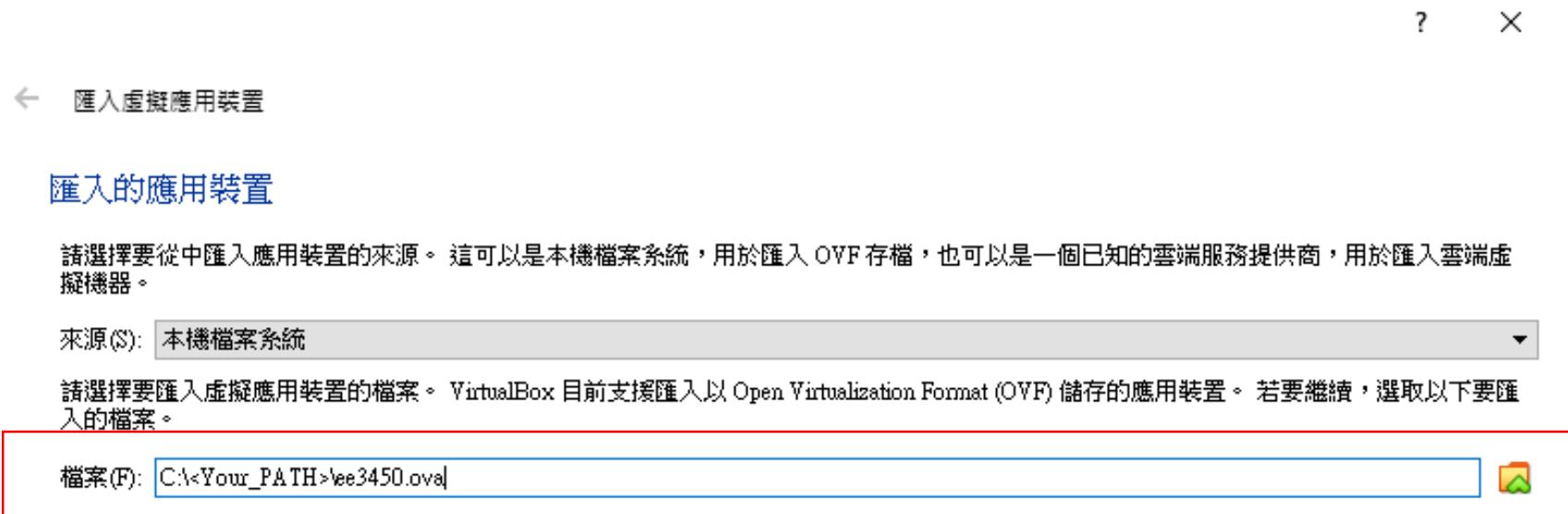
Import Image

- Launch VirtualBox Manager
- Choose File(檔案) >> Import Appliance(匯入應用裝置)



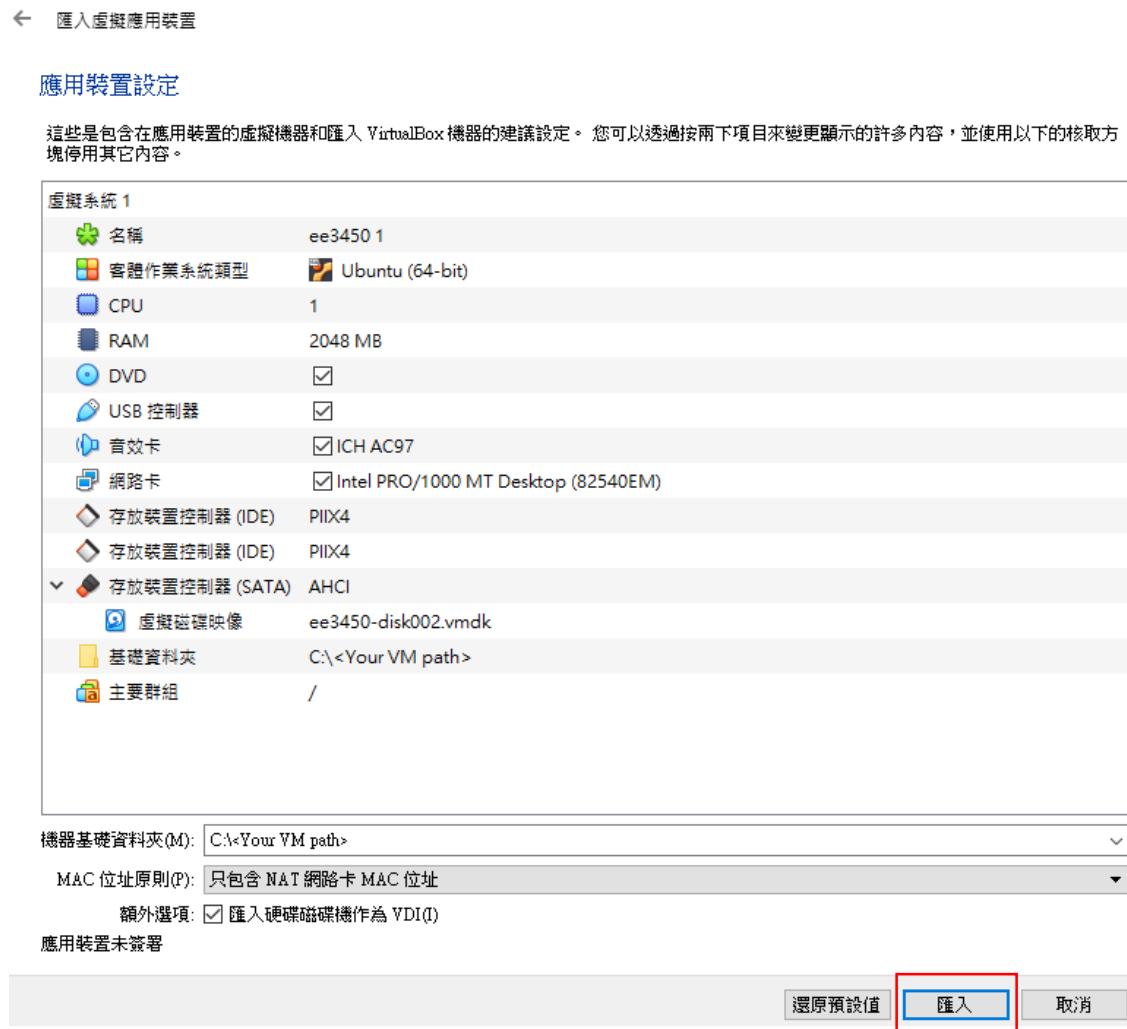
Import Image

- Choose the downloaded image file (ee3450.ova).



Import Image

- Press Import (匯入)

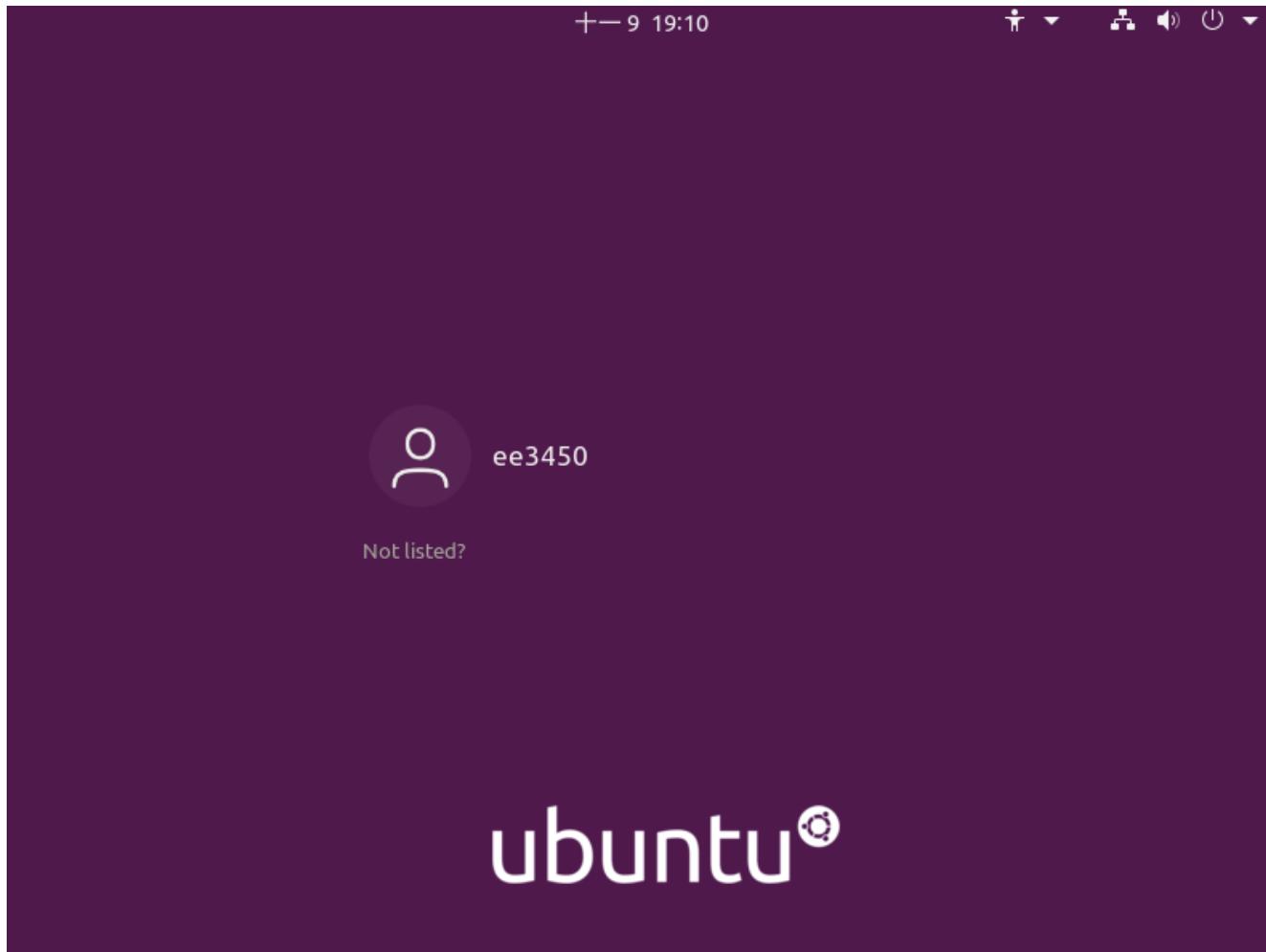


Start Virtual Machine

- After the installing process is done, press Start (啟動).



Ubuntu Login



Download Template Code

- After the virtual machine is successfully built, login to the ubuntu system.

User Name: ee3450

Password: eenthu3450

- Open the terminal, and download the template code provided by TA.

```
$ git clone  
https://github.com/JerryWang0520/ee3450\_pa1.git
```