

安裝Proxmox VE

1. 選擇第一個「Install Proxmox VE」進入安裝。



2. 按下右下角的「I agree」。



END USER LICENSE AGREEMENT (EULA)

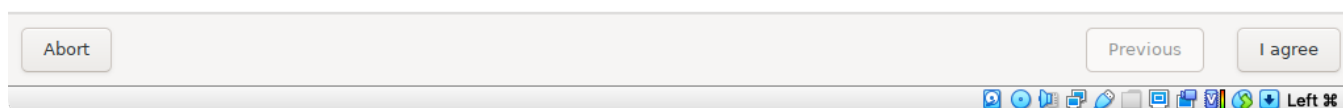
END USER LICENSE AGREEMENT (EULA) FOR PROXMOX VIRTUAL ENVIRONMENT (PROXMOX VE)

By using Proxmox VE software you agree that you accept this EULA, and that you have read and understand the terms and conditions. This also applies for individuals acting on behalf of entities. This EULA does not provide any rights to Support Subscriptions Services as software maintenance, updates and support. Please review the Support Subscriptions Agreements for these terms and conditions. The EULA applies to any version of Proxmox VE and any related update, source code and structure (the Programs), regardless of the the delivery mechanism.

1. License. Proxmox Server Solutions GmbH (Proxmox) grants to you a perpetual, worldwide license to the Programs pursuant to the GNU Affero General Public License V3. The license agreement for each component is located in the software component's source code and permits you to run, copy, modify, and redistribute the software component (certain obligations in some cases), both in source code and binary code forms, with the exception of certain binary only firmware components and the Proxmox images (e.g. Proxmox logo). The license rights for the binary only firmware components are located within the components. This EULA pertains solely to the Programs and does not limit your rights under, or grant you rights that supersede, the license terms of any particular component.

2. Limited Warranty. The Programs and the components are provided and licensed "as is" without warranty of any kind, expressed or implied, including the implied warranties of merchantability, non-infringement or fitness for a particular purpose. Neither Proxmox nor its affiliates warrants that the functions contained in the Programs will meet your requirements or that the operation of the Programs will be entirely error free, appear or perform precisely as described in the accompanying documentation, or comply with regulatory requirements.

3. Limitation of Liability. To the maximum extent permitted under applicable law, under no



3. 選擇要將Proxmox系統安裝在哪個磁碟步驟，先按下「Options」進行進階設定。

補充：假設現在環境中，有5個硬碟，你可以有以下幾種安裝方式：

- 直接選擇1個硬碟安裝Proxmox系統，其他4個硬碟做RAID，用來存放vm。
- 選擇1個硬碟做zfs (RAID 0)安裝Proxmox系統，其他4個硬碟做RAID，用來存放vm。
- 選擇2個硬碟做zfs (RAID 1)安裝Proxmox系統，其他3個硬碟做RAID，用來存放vm，Proxmox系統可以容許一個硬碟故障。
- 選擇2個硬碟做zfs (RAID 0)安裝Proxmox系統，其他3個硬碟做RAID，用來存放vm，但是非常不建議，因為一個硬碟故障，系統就會掛了。
- 把所有硬碟都拿來做RAID，然後安裝Proxmox系統，但不建議這樣，因為這樣Proxmox系統會跟vm放在一起，萬一vm的io過高，容易影響Proxmox系統的運作。

補充：如果機器本身有RAID卡，也可以使用機器本身RAID卡進行磁碟陣列後直接安裝，使用RAID做磁碟陣列後就千萬別再使用zfs去做RAID功能。原則大致如下：

- 主機板做RAID功能跟zfs的RAID功能不要同時使用(硬體RAID上在疊加一層軟體RAID會導致影響效能)。
- Proxmox系統跟vm盡量別放在同一個磁碟空間，避免vm的io過於忙碌，導致Proxmox系統不穩。
- 如果Proxmox系統有多台cluster架構，則不用做RAID mirror保護，因為Proxmox對硬碟寫入不高，只要做好設定備份，萬一系統硬碟故障，只要換上一個新硬碟重新安裝好Proxmox系統以及設定還原，修復時間算快速。

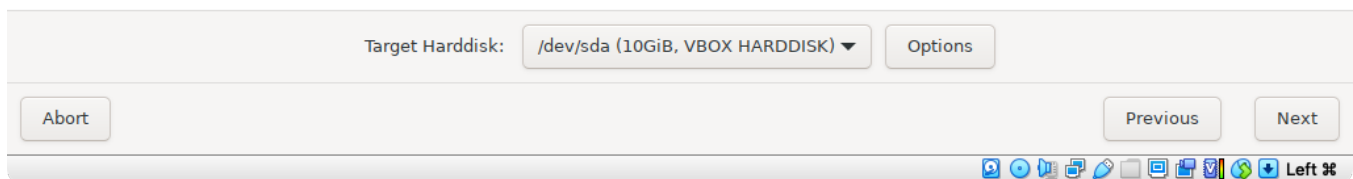


Proxmox Virtual Environment (PVE)

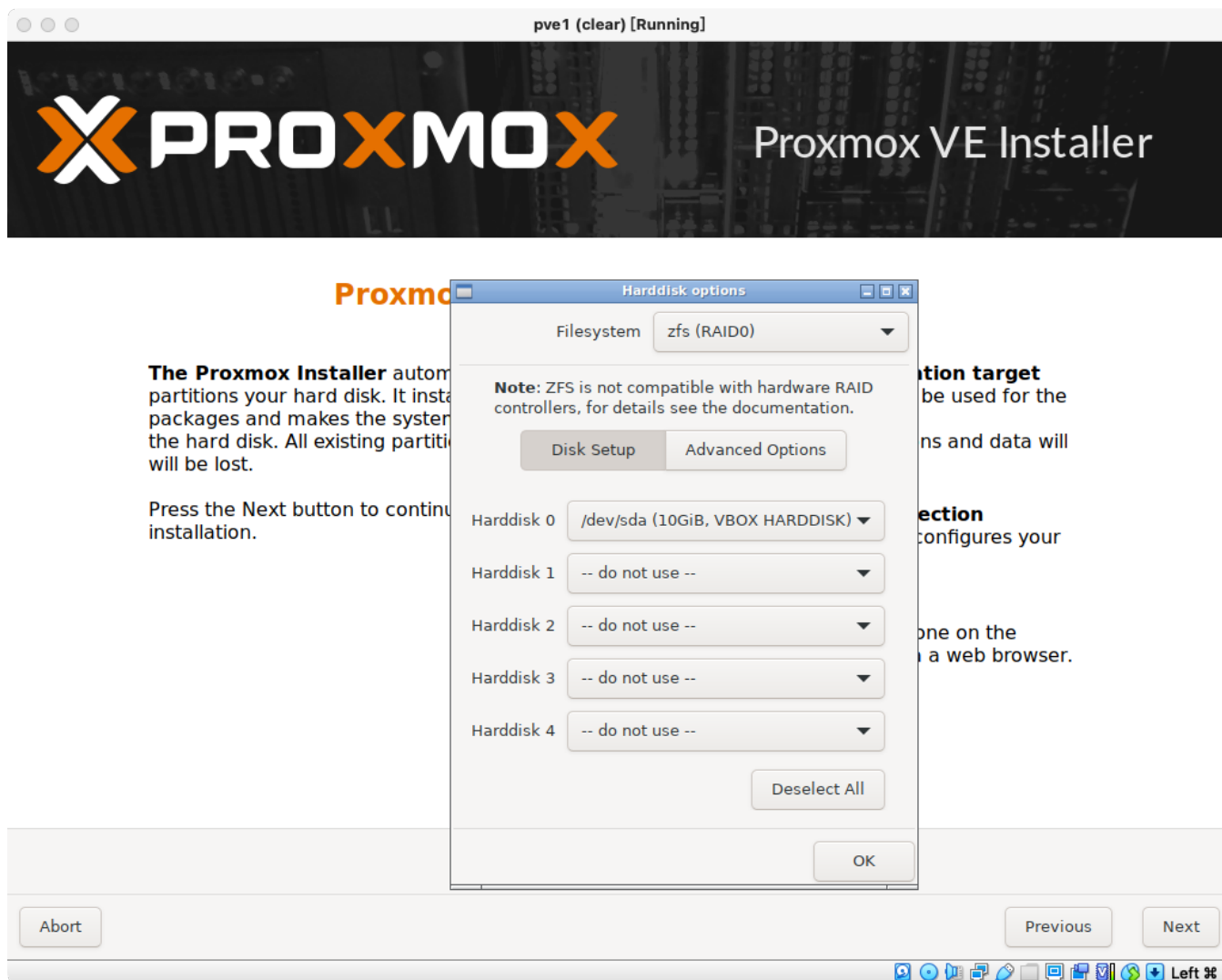
The Proxmox Installer automatically partitions your hard disk. It installs all required packages and makes the system bootable from the hard disk. All existing partitions and data will be lost.

Press the Next button to continue the installation.

- **Please verify the installation target**
The displayed hard disk will be used for the installation.
Warning: All existing partitions and data will be lost.
- **Automatic hardware detection**
The installer automatically configures your hardware.
- **Graphical user interface**
Final configuration will be done on the graphical user interface, via a web browser.



4. 進入硬碟選單，Filesystem請選擇**zfs (RAID 0)**，決定好檔案系統後，接下來要選擇將Proxmox安裝到哪個硬碟上，請直接在底下選擇第一個硬碟Harddisk 0，記得其他沒有要安裝Proxmox的硬碟，記得改成 **--do not use--**，避免該磁碟上的資料被覆寫。如下圖，然後按下「OK」。



5. 確定Target: 為剛剛建立的 **zfs (RAID 0)** 之後，就可以按下「Next」。

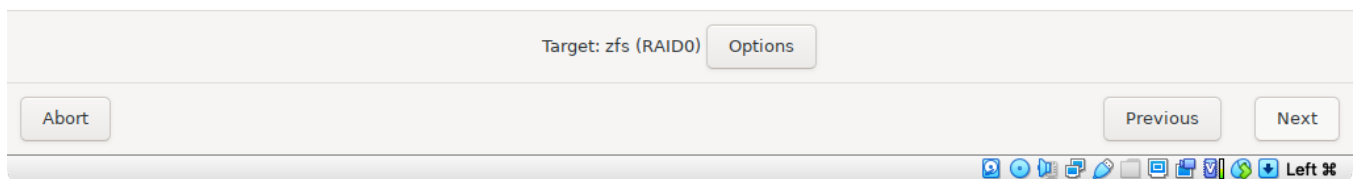


Proxmox Virtual Environment (PVE)

The Proxmox Installer automatically partitions your hard disk. It installs all required packages and makes the system bootable from the hard disk. All existing partitions and data will be lost.

Press the Next button to continue the installation.

- **Please verify the installation target**
The displayed hard disk will be used for the installation.
Warning: All existing partitions and data will be lost.
- **Automatic hardware detection**
The installer automatically configures your hardware.
- **Graphical user interface**
Final configuration will be done on the graphical user interface, via a web browser.



6. Country請選擇 **Taiwan**，Time zone請選擇 **Asia/Taipei**，keyboard Layout則維持預設值，按下「Next」。



Location and Time Zone selection

The Proxmox Installer automatically makes location-based optimizations, like choosing the nearest mirror to download files from. Also make sure to select the correct time zone and keyboard layout.

Press the Next button to continue the installation.

- **Country:** The selected country is used to choose nearby mirror servers. This will speed up downloads and make updates more reliable.
- **Time Zone:** Automatically adjust daylight saving time.
- **Keyboard Layout:** Choose your keyboard layout.

The image shows the configuration screen of the Proxmox VE Installer. It has a light gray background. In the center, there are three settings: 'Country' with a text input field containing 'Taiwan', 'Time zone' with a dropdown menu showing 'Asia/Taipei', and 'Keyboard Layout' with a dropdown menu showing 'U.S. English'. At the bottom left is an 'Abort' button. At the bottom right are 'Previous' and 'Next' buttons. The bottom of the window features a macOS-style dock with various system icons and a 'Left' keyboard indicator.

7. 輸入管理者root的密碼，跟管理者信箱，按下「Next」。



Administration Password and Email Address

Proxmox Virtual Environment is a full featured, highly secure GNU/Linux system, based on Debian.

In this step, please provide the *root* password.

- **Password:** Please use a strong password. It should be at least 8 characters long, and contain a combination of letters, numbers, and symbols.
- **Email:** Enter a valid email address. Your Proxmox VE server will send important alert notifications to this email account (such as backup failures, high availability events, etc.).

Press the Next button to continue the installation.

The image shows the installation form. It has three input fields: 'Password' with 8 dots, 'Confirm' with 8 dots, and 'Email' with the text 'abowspy@gmail.com'. At the bottom left is an 'Abort' button, and at the bottom right are 'Previous' and 'Next' buttons. The window has a standard macOS-style title bar and a dock with various system icons at the bottom.

8. 選擇**管理介面**的網卡，設定完整Hostname(FQDN)、IP、DNS，按下「Next」。



Management Network Configuration

Please verify the displayed network configuration. You will need a valid network configuration to access the management interface after installing.

After you have finished, press the Next button. You will be shown a list of the options that you chose during the previous steps.

- **IP address (CIDR):** Set the main IP address and netmask for your server in CIDR notation.
- **Gateway:** IP address of your gateway or firewall.
- **DNS Server:** IP address of your DNS server.

The image shows a configuration form for the management network. It has the following fields:

- Management Interface: A dropdown menu showing "enp0s3 - 08:00:27:2f:bf:5a (e1000)".
- Hostname (FQDN): A text field containing "pve1.abowspy.com".
- IP Address (CIDR): Two text fields, the first containing "192.168.77.102" and the second containing "24".
- Gateway: A text field containing "192.168.77.253".
- DNS Server: A text field containing "8.8.8.8".

At the bottom, there are three buttons: "Abort", "Previous", and "Next". The "Next" button is highlighted. The bottom of the window shows a standard Linux desktop taskbar with various icons and the text "Left %".

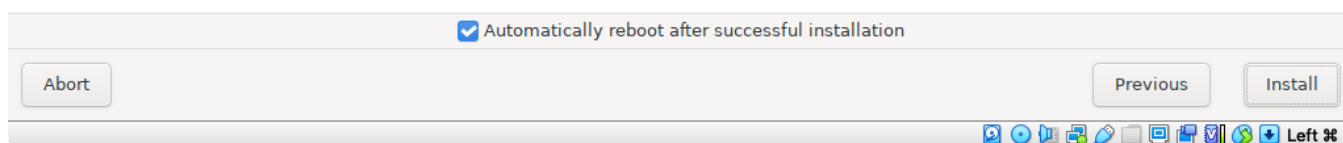
9. 確認資訊沒有問題後，按下「Install」。



Summary

Please confirm the displayed information. Once you press the **Install** button, the installer will begin to partition your drive(s) and extract the required files.

Option	Value
Filesystem:	zfs (RAID0)
Disk(s):	/dev/sda
Country:	Taiwan
Timezone:	Asia/Taipei
Keymap:	en-us
Email:	abowspy@gmail.com
Management Interface:	enp0s3
Hostname:	pve1
IP CIDR:	192.168.77.102/24
Gateway:	192.168.77.253
DNS:	8.8.8.8



10. 大概不用10分鐘，就會看到以下畫面，就表示安裝完成，會自動重開，如果沒有的話，請按下「reboot」。
(記得順便把安裝光碟/隨身碟退出)



Installation successful!

Proxmox VE is now installed and ready to use.

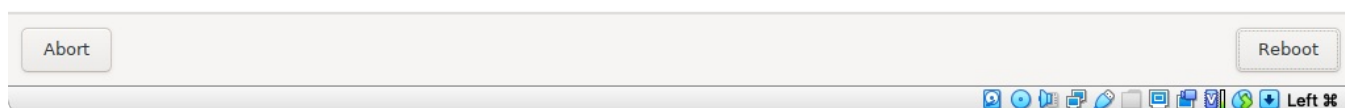
- **Next steps**

Reboot and point your web browser to the selected IP address on port 8006:

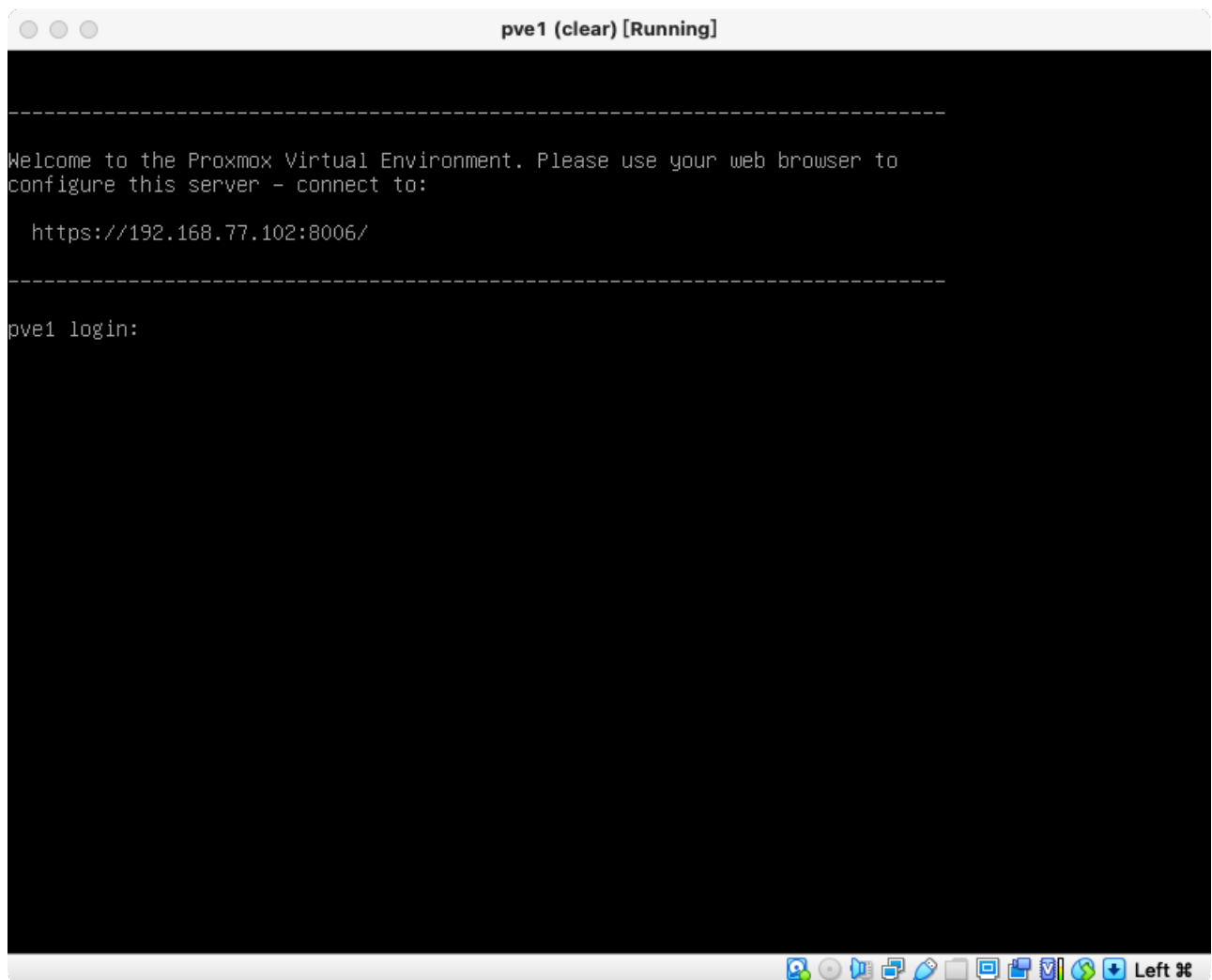
`https://192.168.77.102:8006`

Also visit www.proxmox.com for more information.

Automatic reboot scheduled in 0 seconds.



10. 安裝好會自行重開機，如果看到以下畫面，就代表安裝完成。預設管理帳號為root，密碼為安裝時所設定的密碼。接下來我們就可以利用網頁方式登入 <https://ip:8006/>，進行管理Proxmox VE。



🕒修訂版本 #12

★由 abowspy 建立於 8 🕒T🕒🕒 2022 21:16:40

✍由 abowspy 更新於 31 🕒T🕒🕒 2022 03:01:52