虛擬機器安裝 (VMWare Workstation Player)

- 步驟**1.** 以 VMware Workstation 17 Player 為例,先新增一台虛擬機器(Create a New Virtual Machine):(如圖 H-1)
 - 選擇稍後安裝作業系統 (I will install the operating system later),按下【Next】鈕。(如圖 H-2)
 - 選擇 Linux 作業系統 (Other Linux 3.x kernel 64-bit), 按下【Next】 鈕。(如圖 H-3)
 - 命名虛擬機器,並選擇系統的存放位置,按下【Next】鈕。(如圖 H-4)
 - 指定磁碟容量(先採用預設值 8 GB),選擇儲存為單一檔案(Store virtual disk as a single file),接下【Next】鈕。(如圖 H-5)
 - 按下【Finish】鈕完成新增。(如圖 H-6)

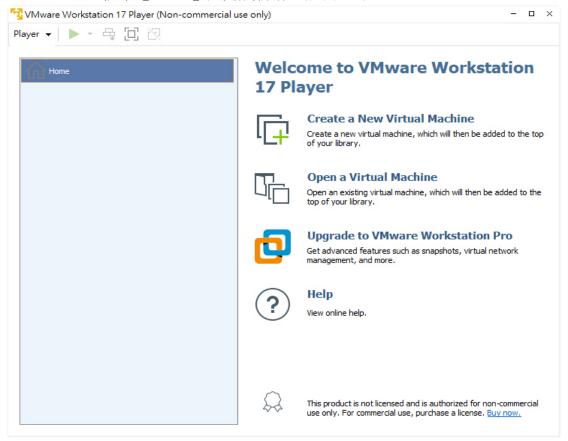


圖 H-1 新增虛擬機器

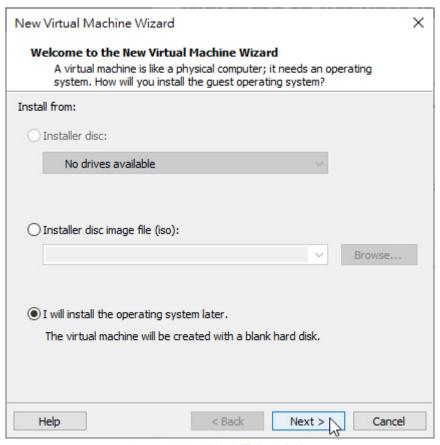


圖 H-2 選擇稍後安裝作業系統

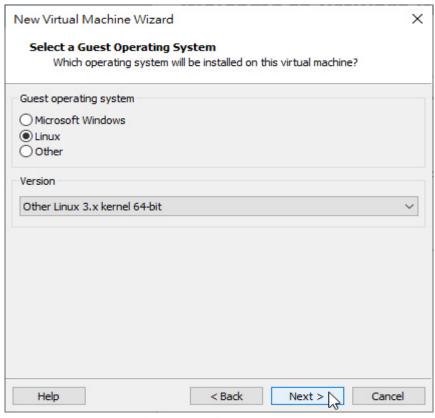


圖 H-3 選擇作業系統版本

New Virtual Machine Wizard	×
Name the Virtual Machine What name would you like to use for this virtual machine?	
Virtual machine name:	
MLS-VM	
Location:	
D:\VM\MLS-VM	Browse
< Back Next >	Cancel

圖 H-4 命名並選擇系統存放位置

New Virtual Machine Wizard	×
Specify Disk Capacity	
How large do you want this disk to be?	
now large do you want this disk to be?	
The virtual machine's hard disk is stored as one or more files on the host compute physical disk. These file(s) start small and become larger as you add applications files, and data to your virtual machine. Maximum disk size (GB): 8.0 Recommended size for Other Linux 3.x kernel 64-bit: 8 GB	
Store virtual disk as a single file Split virtual disk into multiple files Splitting the disk makes it easier to move the virtual machine to another combut may reduce performance with very large disks.	puter
Help < Back Next > Canc	el

圖 H-5 指定磁碟容量和類型

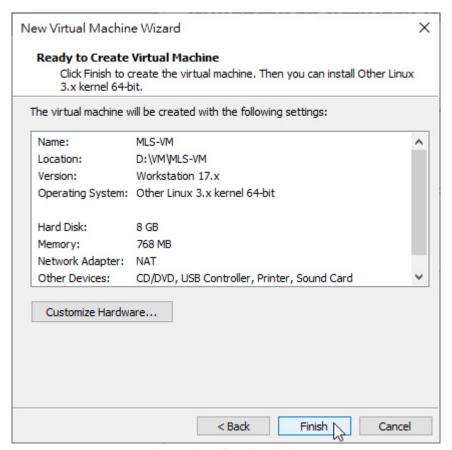


圖 H-6 新增虛擬機器完成

- 步驟**2.** 編輯剛才新增的虛擬機器(Edit virtual machine settings)硬體設定:(如 圖 H-7)
 - Memory/記憶體:至少4GB(視情況增加)。
 - Processors/處理器:至少2核心(視情況增加)。
 - Hard Disk / 硬碟:固定 8 GB,用來啟動 MLS-VM 系統。 先移除預設的 SCSI 硬碟,手動新增一個 SATA 硬碟,並選擇已存 在的虛擬磁碟(Use an existing virtual disk),也就是我們所提供的 MLS-VM 開機檔案 8G.vmdk。(如圖 H-8, 圖 H-9, 圖 H-10, 圖 H-11, 圖 H-12, 圖 H-13)
 - Hard Disk 2/硬碟 2:至少 500 GB,用來存放郵件資料。 手動新增第二個 SATA 硬碟,選擇新的虛擬硬碟(Create a new virtual disk),並儲存為單一檔案(Store virtual disk as a single file)。 (如圖 H-14, 圖 H-15, 圖 H-16, 圖 H-17, 圖 H-18, 圖 H-19)
 - Network Adapter / 網路介面卡:系統運作預設使用的網路卡。 請選擇【Bridged】橋接實體網路卡。(如圖 H-20)
 - Network Adapter 2 / 網路介面卡 2:系統單機運作時雖然不會實際使用到,但必須要有。 手動新增第二張網路卡,選擇【Host-only】。(如圖 H-21, 圖 H-22)
 - USB Controller / USB 控制器:相容 USB 2.0 或 3.1。(非必要)。
 - Serial Port/連接埠:指定 Console 模式使用的連接埠,例如 COM1 (非必要)。
 - Display/顯示器:採用預設值。
 - 完成虛擬機器編輯。(如圖 H-23)

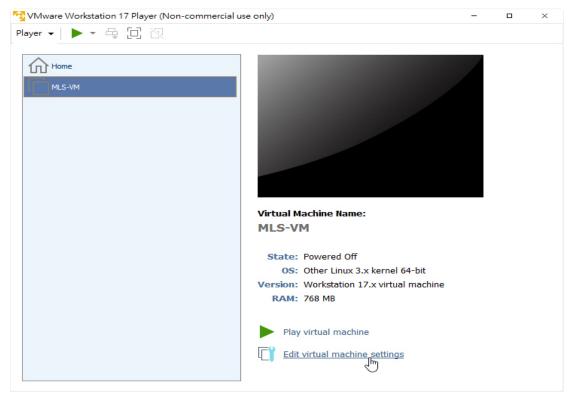


圖 H-7 編輯虛擬機器

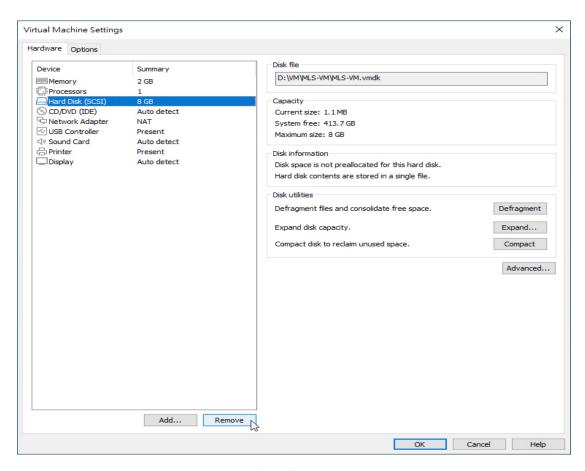


圖 H-8 移除原有的 SCSI 硬碟

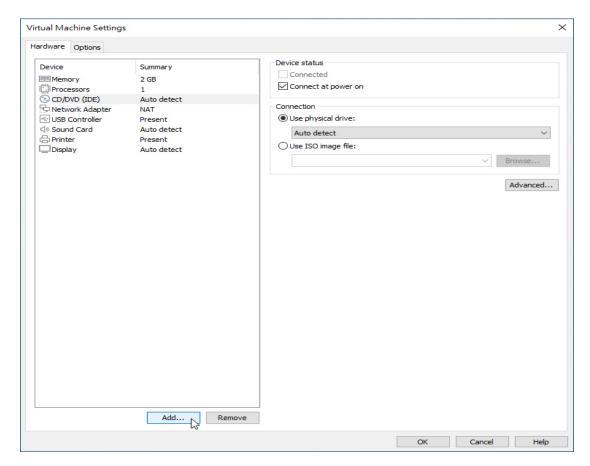


圖 H-9 新增第一顆 SATA 硬碟

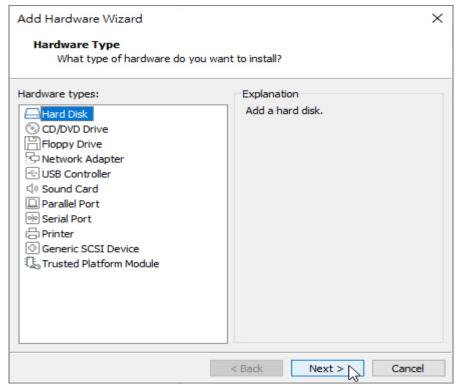


圖 H-10 新增第一顆 SATA 硬碟

Add Hardw	are Wizard	×
	Disk Type kind of disk do you want to create?	
Virtual disk	type	
OIDE		
○ SCSI	(Recommended)	
● SATA		
○NVMe		
	< Back Next > Cance	el

圖 H-11 新增第一顆 SATA 硬碟

dd Hardware Wizard			>
Select a Disk			
Which disk do you want to us	se?		
Disk			
Oreate a new virtual disk			
A virtual disk is composed of or appear as a single hard disk to easily be copied or moved on t	the guest operating	system. Virtual	
Use an existing virtual disk			
Choose this option to reuse a p	previously configured	disk.	
Ouse a physical disk (for advance	ed users)		
Choose this option to give the Requires administrator privileg		t access to a loc	al hard disk.
	< Back	Next > N	Cancel

圖 H-12 新增第一顆 SATA 硬碟(選擇已存在的)

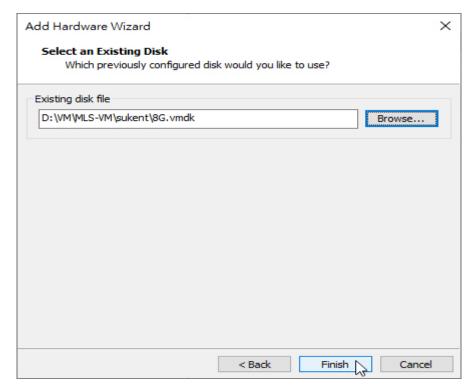


圖 H-13 第一顆 SATA 硬碟新增完成

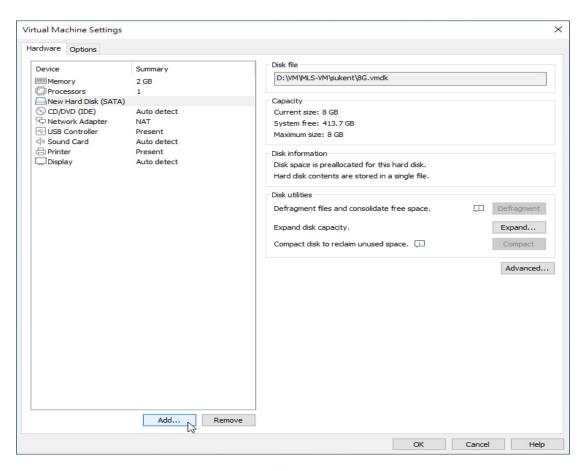


圖 H-14 新增第二顆 SATA 硬碟

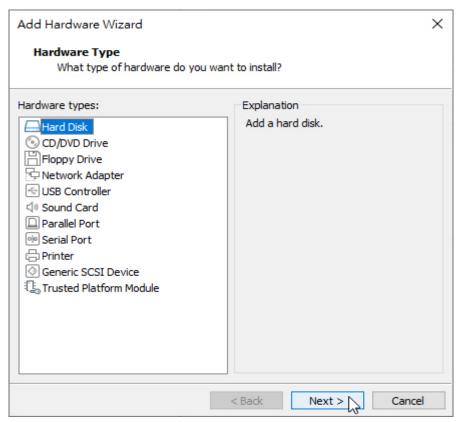


圖 H-15 新增第二顆 SATA 硬碟

Add Hardwa	are Wizard			×
Select a I What	Disk Type kind of disk do you want to	create?		
Virtual disk t	уре			
OIDE				
○ SCSI	(Recommended)			
● SATA				
○NVMe				
				2
		< Back	Next >	Cancel
			NZ.	

圖 H-16 新增第二顆 SATA 硬碟

Add Hardware Wizard	×
Select a Disk Which disk do you want to use?	
Disk	
Create a new virtual disk	
A virtual disk is composed of one or more files or appear as a single hard disk to the guest operat easily be copied or moved on the same host or b	ing system. Virtual disks can
Use an existing virtual disk	
Choose this option to reuse a previously configu	ired disk.
Ouse a physical disk (for advanced users)	
Choose this option to give the virtual machine di Requires administrator privileges.	rect access to a local hard disk.
< Back	Next > Cancel

圖 H-17 新增第二顆 SATA 硬碟(選擇全新的)

Add Hardware Wizard	×
Specify Disk Capacity How large do you want this disk to be?	
Maximum disk size (GB): 500 Recommended size for Other Linux 3.x kernel 64-bit: 8 GB	
Allocate all disk space now. Allocating the full capacity can enhance performance but requires all of the physica disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.	ıl
Store virtual disk as a single file Split virtual disk into multiple files Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.	
< Back Next > Cancel	

圖 H-18 新增第二顆 SATA 硬碟

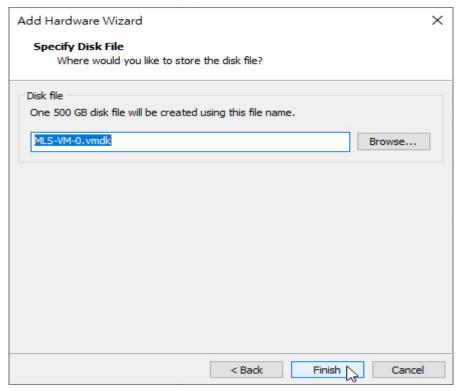


圖 H-19 第二顆 SATA 硬碟新增完成

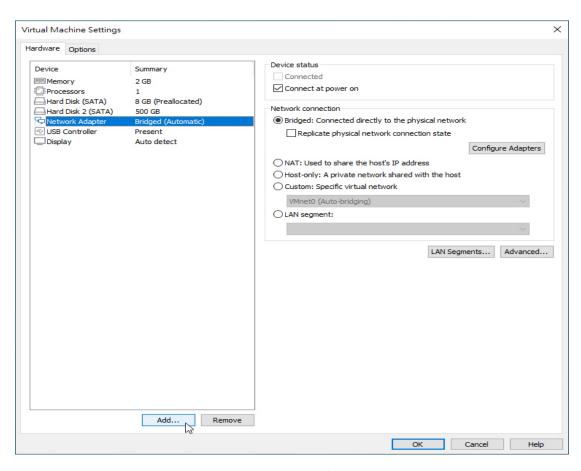


圖 H-20 網路卡 1 橋接實體網路卡

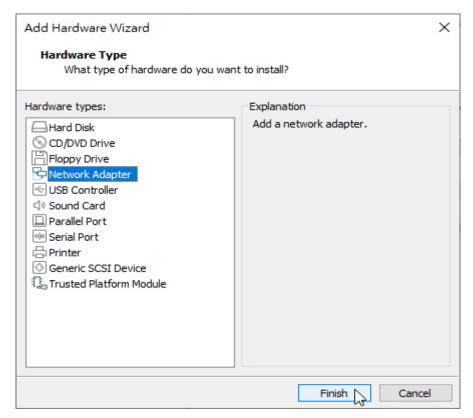


圖 H-21 新增網路卡 2

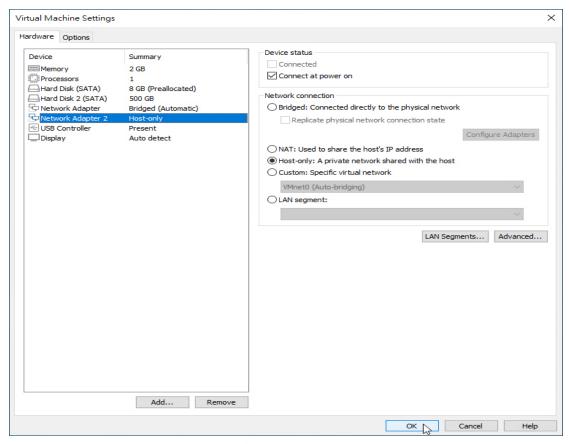


圖 H-22 網路卡 2 使用 Host-inly

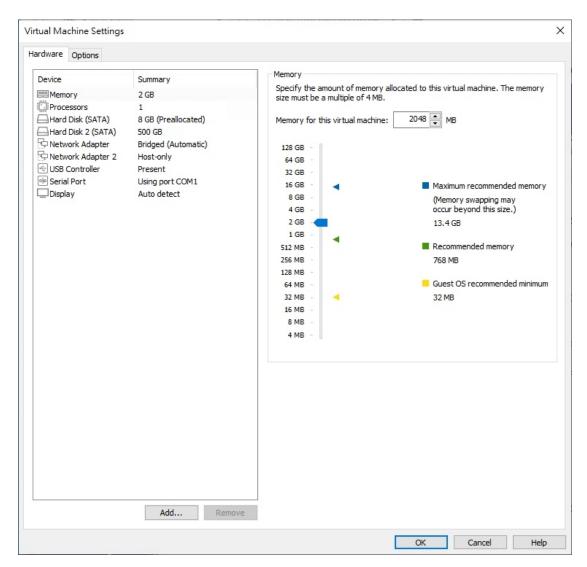


圖 H-23 虛擬機器硬體編輯完成

- 步驟**3.** 點選 Play virtual machine 啟動虛擬機器:(如圖 H-24, 圖 H-25)
 - 初次登入管理介面(http://192.168.1.1),會出現硬碟格式不符的警告訊息,請將硬碟格式化後才能正常使用。(如圖 H-26,圖 H-27,圖 H-28,圖 H-29)
 - 格式化完成後即可使用安裝精靈進行系統設定。(如圖 H-30)

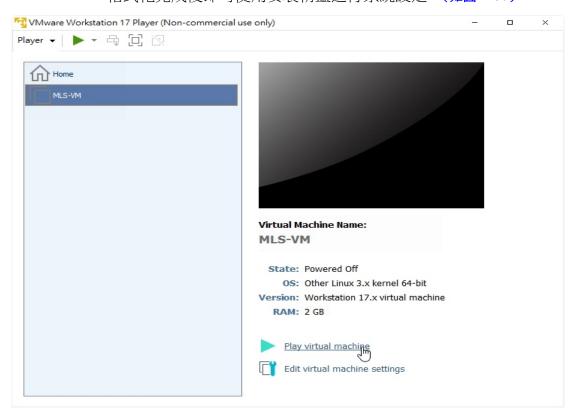


圖 H-24 啟動虛擬機器

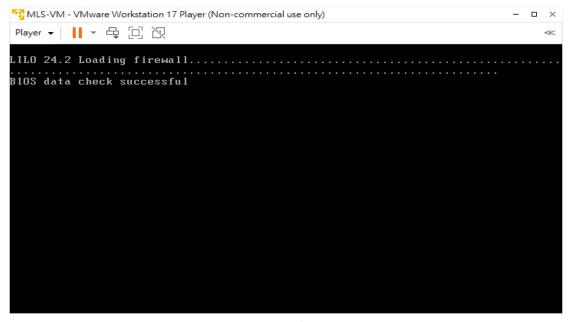


圖 H-25 啟動虛擬機器

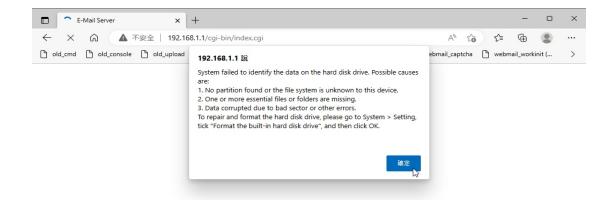


圖 H-26 出現硬碟格式不符警告訊息

System Settings		
Export System Settings	Export	
Import System Settings :	選擇檔案	
	(ex: E-Mail_Server.conf)	
Reset to factory settings		
Configuration File Send Setting ☐ Enable automatic send system settings (Please configure Email Notification Settings) Daily at 00:00 ▼		
Built-in Hard Disk Management		
Available disk management :	Format Hard Disk Repair Bad Sectors	

圖 H-27 點選格式化硬碟



圖 H-28 確認要格式化

E-Mail Server will be rebooted !! Deleting all the email messages might take several minutes. Please wait 9 minutes to reconnect system.

>>>>> Waiting 508 seconds <<<<<<

圖 H-29 系統會重新啟動進行格式化

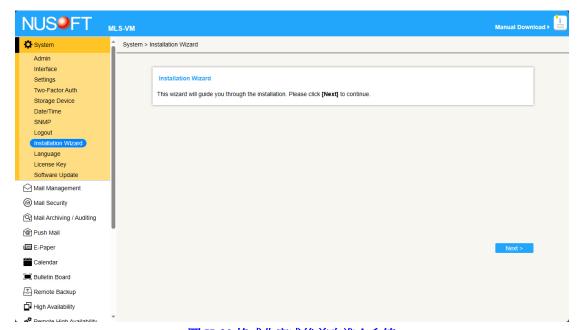


圖 H-30 格式化完成後首次進入系統



- 1. 透過第一張網路卡橋接的實體介面,電腦需要設定 192.168.1.x 的 IP,這樣才能在 MLS-VM 開完機後連結到管理介面(http://192.168.1.1)做設定。
- 2. 儲存郵件資料的第二顆 SATA 硬碟,如果重新調整大小(例如從 500 GB 改為 1 TB), 則需要重新進行格式化後(資料會遺失)才能使用到全部容量。
- 3. VMware Workstation 17 Player 僅提供非商業、個人與家庭免費使用,公司行號若要使用 則需要取得商用授權。
- 4. 要使用 AI 智能辨識功能,記憶體 (RAM)必須至少為 8 GB,處理器 (CPU)必須支援 avx/avx2、sse4_1/sse4_2 指令集。