# 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),按下【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

New Virtual Machine Wizard	×
Welcome to the New Virtual Machine Wizard A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?	
Install from:	
O Installer disc:	
No drives available $\sim$	
◯ Installer disc image file (iso):	
Browse	
● I will install the operating system later.	
The virtual machine will be created with a blank hard disk.	
Help < Back Next > Cancel	

圖 H-2 選擇稍後安裝作業系統

New Virtual Machine Wizard	×
Select a Guest Operating System Which operating system will be installed on this virtual machine?	
Guest operating system	
O Microsoft Windows	
Linux	
Other	
Version	
Other Linux 3.x kernel 64-bit	$\sim$
Help < Back Next > 5	Cancel

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 X	
Specify Disk Capacity How large do you want this disk to be?	
The virtual machine's hard disk is stored as one or more files on the host computer's 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 computer but may reduce performance with very large disks.	
Help < Back Next > Cancel	]

圖 H-5 指定磁碟容量和類型

New Virtual Machine Wizard		
Ready to Create Click Finish to 3.x kernel 64-l	Virtual Machine create the virtual machine. Then you can install Other Linux pit.	8
The virtual machine v	vill be created with the following settings:	
Name:	MLS-VM	^
Location:	D:\VM\MLS-VM	
Version:	Workstation 17.x	
Operating System:	Other Linux 3.x kernel 64-bit	
Hard Disk:	8 GB	
Memory:	768 MB	
Network Adapter:	NAT	
Other Devices:	CD/DVD, USB Controller, Printer, Sound Card	×
Customize Hardw	are	
	< Back Finish Cancel	

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)

VMware Workstation 17 Player (Non-commercial us	se only)	-	×
Player -   ▶ - 🛱 🖸 🖹			
MLS-VM	Virtual Machine Name: MLS-VM		
	State: Powered Off OS: Other Linux 3.x kernel 64-bit Version: Workstation 17.x virtual machine RAM: 768 MB Play virtual machine Edit virtual machine settings		

圖 H-7 編輯虛擬機器

Virtual Machine Settings	:		×
Hardware Options			
Device Memory	Summary 2 GB	Disk file D:\VM\MLS-VM\MLS-VM.vmdk	
Processors	1	Creativ	
And Disk (SCSI)     Controller     Sound Card     Display	Auto detect NAT Present Auto detect Present Auto detect	Current size: 1.1 MB System free: 413.7 GB Maximum size: 8 GB Disk information Disk space is not preallocated for this hard disk.	
		Hard disk contents are stored in a single file. Disk utilities Defragment files and consolidate free space.	Defragment
		Expand disk capacity. Compact disk to redaim unused space.	Expand Compact
			Advanced
	Add Remove		
		OK Cancel	Help

圖 H-8 移除原有的 SCSI 硬碟

Virtual Machine Settings				×
Hardware Options				
Device Memory CD/DVD (IDE) Sound Card Sound Card Printer Display	Summary 2 GB 1 Auto detect NAT Present Auto detect Present Auto detect Auto detect	Device status Connected Connect at power on Connection © Use physical drive: Auto detect Use ISO image file:		Browse Advanced
			OK	Cancel Help

## 圖 H-9 新增第一顆 SATA 硬碟

Add Hardware Wizard		×
Hardware Type What type of hardware do you	u want to install?	
Hardware types: Hard Disk CD/DVD Drive Floppy Drive Vetwork Adapter USB Controller Sound Card Parallel Port Serial Port Printer Generic SCSI Device Trusted Platform Module	Explanation Add a hard disk.	
	< Back Next > Next > Car	ncel

圖 H-10 新增第一顆 SATA 硬碟

Add Hardw	are Wizard	×
Select a What	Disk Type : kind of disk do you want to create?	
Virtual disk	type	
⊖ SCSI	(Recommended)	
●SATA		
○ NVMe		
	< Back Next > Cane	el

圖 H-11 新增第一顆 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 on the host file system, which wi appear as a single hard disk to the guest operating system. Virtual disks can easily be copied or moved on the same host or between hosts.	1
Use an existing virtual disk	
Choose this option to reuse a previously configured disk.	
O Use a physical disk (for advanced users)	
Choose this option to give the virtual machine direct access to a local hard disk Requires administrator privileges.	
< Back Next > Cancel	

圖 H-12 新增第一顆 SATA 硬碟(選擇已存在的)

Add Hardware Wizard	×
Select an Existing Disk Which previously configured disk would you like to use?	
Existing disk file	
D:\VM\MLS-VM\sukent\8G.vmdk	Browse
< Back Finish	Cancel



Virtual Machine Settings		×
Hardware Options		
Device Memory Processors	Summary 2 GB 1	Disk file D:\VM\MLS-VM\sukent\8G.vmdk
New Hard Disk (SATA) CD/DVD (IDE) CV/DVWork Adapter USB Controller USB Controller Sound Card Printer Display	Auto detect NAT Present Auto detect Present Auto detect	Capacity Current size: 8 GB System free: 413.7 GB Maximum size: 8 GB Disk information Disk space is preallocated for this hard disk. Hard disk contents are stored in a single file.
		Disk utilities         Defragment files and consolidate free space.         Expand disk capacity.         Compact disk to reclaim unused space.    Compact
		Advanced
	Add Remove	OK Cancel Help

圖 H-14 新增第二顆 SATA 硬碟

Add Hardware Wizard	×
Hardware Type What type of hardware do you want	to install?
Hardware types: Hard Disk CD/DVD Drive Floppy Drive Vetwork Adapter USB Controller Sound Card Parallel Port Serial Port Printer Generic SCSI Device Trusted Platform Module	Explanation Add a hard disk.
<	Back Next > Cancel

圖 H-15 新增第二顆 SATA 硬碟

Add Hardwa	are Wizard	×
Select a What	Disk Type t kind of disk do you want to create?	
Virtual disk t	type	
⊖ scsi	(Recommended)	
●SATA		
○ NVMe		
		1
	< Back Next > Cance	el

圖 H-16 新增第二顆 SATA 硬碟

Add Hardware Wizard			
Select a Disk			
Which disk do you want to use	2		
Disk			
Create a new virtual disk			
A virtual disk is composed of one appear as a single hard disk to th easily be copied or moved on the	or more files on the h e guest operating sys same host or betwee	ost file system, whic tem. Virtual disks ca n hosts.	:h wil in
OUse an existing virtual disk			
Choose this option to reuse a pre	viously configured dis	k.	
OUse a physical disk (for advanced	users)		
Choose this option to give the vir Requires administrator privileges	tual machine direct ac	cess to a local hard	disk.
	< Back	Next > N Ca	ncel

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	
Allocating the full capacity can enhance performance but requires all of the physic 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.	al
Store virtual disk as a single file	1
○ 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.	1
< Back Next > Cancel	

圖 H-18 新增第二顆 SATA 硬碟

Add Hardware Wizard	$\times$
Specify Disk File Where would you like to store the disk file?	
Disk file One 500 GB disk file will be created using this file name.	
MLS-VM-0.vmdk Browse	
< Back Finish Cancel	



Virtual Machine Settings		×
Hardware Options		
Device Memory Processors Hard Disk (SATA) Hard Disk 2 (SATA) USB Controller Display	Summary 2 GB 1 8 GB (Preallocated) 500 GB Bridged (Automatic) Present Auto detect Auto detect Remove	Device status Connected Connect at power on Network connection Periods of Connected directly to the physical network Replicate physical network connection state Configure Adapters NAT: Used to share the host's IP address Coustom: Specific virtual network shared with the host Custom: Specific virtual network UMnet0 (Auto-bridging) LAN segment: LAN Segments Advanced
		OK Cancel Help

圖 H-20 網路卡1 橋接實體網路卡

Add Hardware Wizard	×
Hardware Type What type of hardware do you wan	t to install?
Hardware types: Hard Disk CD/DVD Drive Floppy Drive Vetwork Adapter USB Controller Sound Card Parallel Port Serial Port Printer Generic SCSI Device CSSI Device Trusted Platform Module	Explanation Add a network adapter.
	Finish Cancel

## 圖 H-21 新增網路卡 2

terdware Options     Device Summary   Memory 2.68   Device status Connected   Device status Connected   On Notwork Adapter Bridged (Automatc)   Device Present Display   Auto detect NAT: Used to share the host's IP address   Host-only: A private network shared with the host Configure Adapter   Metwork adapter Present   Display Auto detect     Mather Auto detect     Mather Auto detect     Mather Auto detect     Mather Auto detect     Add Remove     Add Remove	rtual Machine Settings			×
Device       Summary	ardware Options			
	Device Memory Processors Hard Disk (SATA) Hard Disk (SATA) Network Adapter 2 USB Controller Display	Summary 2 GB 1 8 GB (Preallocated) 500 GB Bridged (Automatic) Host-only Present Auto detect Auto detect	Device status Connected Connect at power on	

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

E-Mail Server X	+				D	×
← × 命 ▲ 不安全   192.168	3.1.1/cgi-bin/index.cgi	A" to	ל≡	Ē		
🖒 old_cmd 🏠 old_console 🌓 old_upload	192.168.1.1 說 System failed to identify the data on the hard disk drive. Possible causes are: 1. No partition found or the file system is unknown to this device. 2. One or more essential files or folders are missing. 3. Data corrupted due to bad sector or other errors. To repair and format the hard disk drive, please go to System > Setting, tick "Format the built-in hard disk drive", and then click OK.	ebmail_captcha	Mebri	aail_work	init (	>
	圖 H-26 出現硬碟格式不符警告訊息					

System Settings	
Export System Settings Import System Settings :	Export 選擇個案 沒有選擇檔案 (ex: E-Mail_Server.conf)
Reset to factory settings	
Configuration File Send Setting	
Enable automatic send syste     Daily at 00:00	m settings (Please configure Email Notification Settings)
Built-in Hard Disk Management	
Available disk management :	Format Hard Disk Repair Bad Sectors
Name Settings	
Company Name :	E-Mail Server ( Max. 19 characters, ex: My Company )
Device Name :	E-Mail Server ( Max. 19 characters, ex: E-Mail Server )

#### 圖 H-27 點選格式化硬碟

All email messages will want to continue?	be gone due to the disk format proc	ess. Do you
	確定	取消
	圖 H-28 確認要格式化	
E	Mail Server will be rebooted !!	
Deleting all the	email messages might take several min	utes.
Please	wait 9 minutes to reconnect system.	
	>> Waiting 500 epronde accesses	

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,處理器 (CPU) 必須支援 avx/avx2、sse4\_1/sse4\_2 指令集。