Windows Server

- □□□□□ Windows Server Core 2016
- Hyper-V□□

????? Windows Server Core 2016

???core?

微軟的 server core, 就是回到 dos時代, 使用單純的 command line管理, 速度更快, 體積更小, 漏洞也更少

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1. 使用 Ventoy工具, 把常用裝機 ISO複製進去。
2. 安裝前使用 MEMTEST86+測試記憶體, 如果 MEMTEST86+無法順利啟動, 選擇 RamDisk 啟動, 完成後用 AIDI64烤機半小時, 看看溫度等是否正常
3. server的版本是按照輸入的 key來區分的, 可以 google ‘KMS key’, 從微軟的官網取得
4. 系統安裝過程中, 資料沒有要留的硬碟, 把上面的所有分區都刪除, 避免日後 diskpart 無法管理。如果無法刪除, 則使用 DiskGenius處理, DiskGenius有 bug , 每處理完一顆硬碟, 要存檔一次, 否則會出錯。
5. 安裝結束, 重新開機進入 BIOS確認開機 boot第一選項是 windows boot manager
6. 開機完成需要設定 Administrator密碼, 輸入第一次密碼後, 要按 tab 鍵才能跳到第二行, 至此, 安裝完成。

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優先設定電腦名稱, IP位址, 還有 remote desktop(才能複製貼上指令), remote desktop選擇 less secure 選項

```
SCONFIG
```

因為遠端控制大小寫等原因, 最好重新修改一次 ADMINISTRATOR 密碼, 順便設定密碼永遠不會過期

```
NET USER Administrator 新密碼
WMIC UserAccount where Name='Administrator' set PasswordExpires=False
```

Windows 10自帶 Remote Desktop Connection, 開始使用來遠端登入伺服器
如果 CMD視窗不幸關閉, 可以用 CTRL+ALT+END(等於本地按下 CTRL+ALT+DELETE), 呼叫出 Task Manager, 再選擇 Run, 然後執行 CMD
密碼複雜性需求 (Stop PasswordComplexity), 執行 powershell, 再執行以下指令

```
secedit /export /cfg c:\secpol.cfg
(gc C:\secpol.cfg).replace("PasswordComplexity = 1", "PasswordComplexity = 0") | Out-File
C:\secpol.cfg
secedit /configure /db c:\windows\security\local.sdb /cfg C:\secpol.cfg /areas SecurityPolicy
```

```
rm -force C:\secpol.cfg
```

??????windows Defender???powershell

```
REM * □□□□□□□□□ *
Get-MpPreference
REM * □□□□□□□ *
Set-MpPreference -DisableRealtimeMonitoring $true
REM * □□□□□□□□ *
Set-MpPreference -ExclusionPath “C:\temp”, “C:\VMs”, “C:\NanoServer”
REM * □□□□□□□ *
Set-MpPreference -ExclusionProcess “vmms.exe”, “Vmwp.exe”
REM * □□windows defender□□□□□restart *
Dism /online /Disable-Feature /FeatureName:Windows-Defender /Remove /NoRestart /quiet□□
```

??????????KMS???????????

```
REM * □□Windows□□ *
wmic os get caption
REM * □□Windows Server 2016 Standard□key *
slmgr /ipk WC2BQ-8NRM3-FDDYY-2BFGV-KHKQY
REM * □□KMS□□□□□ *
slmgr /skms 192.168.0.3
REM * □□Server *
slmgr /ato
```

??sconfig??windows update??????????????????PE ?????????????

```
REM * □□□□□□□□□ *
DISKPART
REM * LIST□□□□ *
LIST DISK
LIST VOLUME
LIST PARTITION
REM * SELECT□□□□ *
SELECT DISK
SELECT VOLUME
SELECT PARTITION
REM * □□DISK□□□□□□□□□□□□□RAID0 *
CONVERT DYNAMIC
```

```
CREATE VOLUME STRIPE DISK=2,3,4
REM * SELECT DISK □□□□□□□ *
CREATE PARTITION PRIMARY
REM * SELECT VOLUME □□□□□□ *
ASSIGN LETTER=D
REM * FORMAT□□□□□□ *
FORMAT FS=NTFS LABEL="SRV2" QUICK
REM * □□□□□□□□ *
fsutil fsinfo drives
```

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□ superMicro□□□□□□□□ ChipSet□ NIC□□□□□□□□□□□□ EXE□□□□□□□□□□□□
□□□□□□□□□□□□□□ diskspd□□□ powershell□□□□□□ -t2□ 2□□

```
.\diskspd -t2 -o32 -b4k -r4k -w0 -d120 -Sh -D -L -c5G .\IO.dat > IO02t.txt
```

???????Windows Admin Center

Windows Admin Center□□□□□□□□□□□□□□□□ server
□□□□□□□□□□□□□□□□□□□□□□□□□□□□ domain□□□ workgroup□□□□□□□□□□□□□□□□
trust host□□□□□□□□□□□ powershell□□□

```
REM * Server□□□□□□□ *
Set-NetFirewallRule -Name WINRM-HTTP-In-TCP-PUBLIC -RemoteAddress Any

REM * □□□□□Win 10□□□□□□□ *
Set-NetFirewallRule -Name WINRM-HTTP-In-TCP -RemoteAddress Any

REM * □□□□TrustedHosts□□□ *
Get-Item WSMan:\localhost\Client\TrustedHosts
REM * □□□□□TrustedHosts *
Get-Item WSMan:localhost\Client\TrustedHosts | Out-File C:\OldTrustedHosts.txt
REM * □□□□TrustedHosts□NetBIOS, IP, or FQDN□□□□□ *
Set-Item WSMan:localhost\Client\TrustedHosts -Value
'192.168.1.1,server01.contoso.com,server02'
REM * □□□□□TrustedHosts□□□□□□□□□ *
Set-Item WSMan:\localhost\Client\TrustedHosts -Value '*'
REM * □□□□□□□TrustedHosts□□□ *
Clear-Item WSMan:localhost\Client\TrustedHosts
```

?????Hyper-V?

□□□□□□ Windows Admin Center□□□□□ Win 10□□ server core□□□ Hyper-V□
□□□□□ Win 10□□□□ Hyper-V□□□□□ server core□□□ Hyper-V
□ Enhanced mode□□ connet server□□ VM□□□ config□□□□□□

```
C:\Users\Rain\AppData\Roaming\Microsoft\Windows\Hyper-V\Client\1.0
```

??KMS server?

□□ Wind4□□□ vlmcsd□□□□ hotbird64□□□□□□□□□□□□□□□□ floppy.vfd□□□□□□ VM
□□□□
□□□□□ winImage□□□□□□□ syslinux.cfg□□□□□

```
`# boot "LABEL dhcp" if prompt is 0 or the TIMEOUT has expired
DEFAULT static
`# Customizing
LABEL static
  KERNEL bzImage
  APPEND
  vga=773
  quiet
  initrd=initrd
  KBD=us
  LISTEN=::,0.0.0.0
  TZ=CST-8
  IPV4_CONFIG=STATIC
  IPV4_ADDRESS=192.168.0.3/24
  IPV4_GATEWAY=192.168.0.1
  IPV4_DNS1=8.8.8.8
  IPV4_DNS2=8.8.4.4
  NTP_SERVER=pool.ntp.org
  HOST_NAME=vlmcsd
  ROOT_PASSWORD=vlmcsd
  USER_NAME=user
  USER_PASSWORD=vlmcsd
  GUEST_PASSWORD=vlmcsd
  INETD=Y
  WINDOWS=03612-00206-555-395032-03-1033-17763.0000-2802018
  OFFICE2010=03612-00096-199-204970-03-1033-17763.0000-2802018
  OFFICE2013=03612-00206-234-921934-03-1033-17763.0000-2802018
  OFFICE2016=03612-00206-437-921934-03-1033-17763.0000-2802018
  OFFICE2019=03612-00206-677-661250-03-1033-17763.0000-2802018
```

```
WINCHINAGOV=03612-03858-007-004198-03-1033-17763.0000-2802018
HWID=36:4F:46:3A:88:63:D3:5F
```

???????

```
REM * □□□□□□□□□□ *
NET VIEW \\192.168.0.8
REM * □□□□□□□□□□ *
net use
REM * connect□□□□□ *
net use Z: \\192.168.0.9\Downloads /user:userName password
REM * □□□□□□□□□□□ *
net use z: /delete
REM * □□□□PageFile *
WMIC PAGEFILESET LIST /FORMAT:LIST
REM * □□□pageFile *
WMIC COMPUTERSYSTEM WHERE NAME="Server0BAK" SET AutomaticManagedPagefile=False
REM * □□□□□□□□□□PageFile *
WMIC PAGEFILESET DELETE /INTERACTIVE:?
REM * □□□□2G~384G□□□□□D:□PageFile *
WMIC PAGEFILESET CREATE Name="D:\pagefile.sys", InitialSize=2048,MaximumSize=262144
REM * □□□□□□PageFile *
WMIC PAGEFILESET WHERE Name="D:\\pagefile.sys" SET InitialSize=2048,MaximumSize=524288
REM * □□C□□LABEL *
Label C: System
REM * □□□□□□□ *
TASKMGR
```

Hyper-V??

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