

**Deploy N-Reporter** 

Virtual Machine

V031



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# Preface

This document is about how to deploy and set N-Reporter software in VMware ESXi, VMware Workstation, VirtualBox, Hyper-V, and KVM.

When users need to redeploy or transfer it with vMotion or Live Migration, please contact N-Partner TAC first in case the license failes after the process.



# **1. Preperation**

> Please prepare a server; recommended specifications are as follows:

- ✓ CPU: E3-1231 v3(8M Cache Memory and 3.40 GHz) or later versions
- ✓ Memory: More than 40G
- ✓ HDD space: 1TB or more, according to the needs
- ✓ Install VMware ESXi 6.0 or later versions
- ✓ Install Windows Hyper-V 2016 or later versions
- ✓ Install VirtualBox 5.0 or later versions (without long-term tests)
- ✓ Install KVM 4.2.0 or later versions

> To reach the best performance of N-Reporter, at least 32G memory is needed.

- Please prepare a Windows computer to manage VMware, VirtualBox, Hyper-V Server or KVM Server.
- ▶ For N-Reporter VM, the recommended CPU is 2.8GHz core x4 and memory 32GB.

> N-Reporter VM with Hyper-V, the required memory is 48GB.



## 2. Download N-Reporter VMware Image

- N-Reporter has multiple images. The main difference is their HDD space, and their functions are all the same. For example, NCloud6\_Reporter\_500G.ova means that it requires 500G HDD space after installation. Please download the applicable image as need. (Note 1)
- > N-Reporter Image (zip file) download address for VMware: (Note 2)

https://www.npartnertech.com/download/vm/N-Cloud6 Reporter 500G.zip https://www.npartnertech.com/download/vm/N-Cloud6 Reporter 1T.zip https://www.npartnertech.com/download/vm/N-Cloud6 Reporter 2T.zip

N-Reporter Image (zip file) download address for Hyper-V: (Note 2) <u>https://www.npartnertech.com/download/vm/Hyper-V/N-Cloud6 Reporter 500G.hpv.zip</u>

https://www.npartnertech.com/download/vm/Hyper-V/N-Cloud6 Reporter 1T.hpv.zip

https://www.npartnertech.com/download/vm/Hyper-V/N-Cloud6 Reporter 2T.hpv.zip

Note 1: If VMware cannot be booted up after OVF file installation, modify N-Reporter VM configuration file by checking "Force BIOS" or press F2 when booting up to enter BIOS. Set Hard Drive(0:0) as the first device to boot up.

Note 2: The zip files above include a VMware OVA file and MD5 information file of OVA file. Please use compression software, such as 7-Zip, to unzip it.



## **3. Intallation Process**

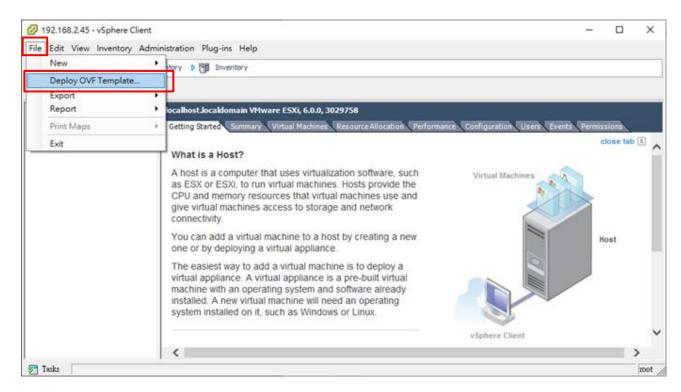
### 3.1 vSphere Client

(1) Open VMware vSphere Client, and enter VMware IP address, user name, and password. Click

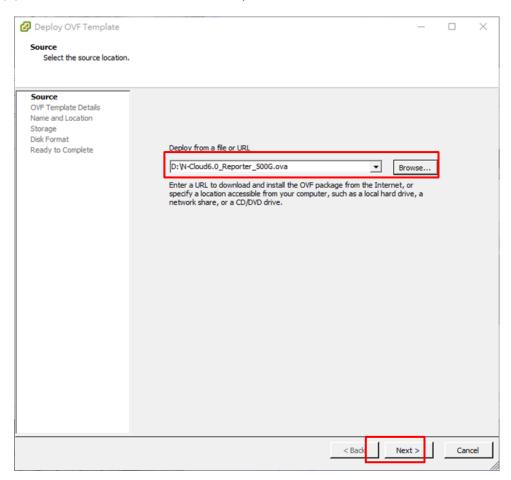
"Login."

vare <sup>.</sup> are vSphere <sup></sup> Nt				8
The second se				Y
nt				
10 - 110 - 1200	192.168.	.2. '.	•	1
Jser name:	root			
eassword:	******	*		1
		Nindows se	ssion credentia	ls
				Help
		anage multiple hosts, enter the I ter Server. P address / Name: 192.168. User name: root Password: *******	anage multiple hosts, enter the IP address of ter Server. IP address / Name: 192.168.2.	P address / №ame: 192. 168. 2

(2) Click "File → Deploy OVF Template...."



(3) Click "Browse...," select the N-Reporter OVA file, and click "Next."



(4) Check the information and click "Next."

	8			
ource OVF Template Details lame and Location	Product:	NC6.0_Reporter_500G_v6.0.185_lite_n03	 1	
torage isk Format	Version:			
etwork Mapping eady to Complete	Vendor:			
eady to complete	Publisher:	No certificate present		
	Download size:	1.3 GB		
	Size on disk:	1.6 GB (thin provisioned) 504.0 GB (thick provisioned)		
	Description:			
			1	
	L		 1	



(5) Type in the virtual machine name and click "Next."

🚱 Deploy OVF Template		_		$\times$
Name and Location	the factor designed to be a factor of the			
Specify a name and loca	ation for the deployed template			
Source				
OVF Template Details	Name: N-Reporter			_
Name and Location				
Storage Disk Format	The name can contain up to 80 characters and it must be unique within the invento	ry tolder.		
Network Mapping				
Ready to Complete				
	< Back Ne:	xt >	Can	
	< back live.		Can	cei
				1

(6) Select a destination storage and click "Next."

VF Template Details	Nam		age for the virtual		Provisioned	Free	Туре	T
ame and Location torage		datastore1(6)	Non-SSD		8.28 TB	166.03 GB		s
sk Format	8	datastore2	Non-SSD		5.28 TB	597.84 GB		S
	<	Disable Storage DF	LS for this virtual n	nachine				
	Selec	t a datastore:						
	Nam	ie	Drive Type	Capacity Pr	ovisioned	Free	Туре	Thi
	<					_		
	1.5	atibility:				_		



(7) Select "Thick Provision Lazy Zeroed" or "Thick Provision Eager Zeroed" as the format and click

"Next." Select either format, and N-Reporter VM can have the space it required. (Note 3)

💋 Deploy OVF Template	3					$\times$
Disk Format						
In which format do you	want to store the virtual disks?					
Source	Datastore:	datastore2				
OVF Template Details		0010310102				
Name and Location	Available space (GB):	597.8				
Storage Disk Format		,				
Network Mapping						
Ready to Complete	0					
includy to complete	Thick Provision Lazy Z					
	C Thick Provision Eager	Zeroed				
	C Thin Provision					
			< Back	Next >	Can	rcel
			Codex	Incare 2		

Note 3: Please do not select Thin Provision as format. When the datastore N-Reporter virtual machine in is full, N-Reporter will not be able to operate and will lose data.



(8) Select the networks used in this template and click "Next."

	_	
a dealered terralete rea2		
e deployed template use?		
_		
Map the networks used in this OVF t	emplate to networks in your inventory	
Source Networks	Destination Networks	
VM Network	VM Network	
Description:		
The VM Network network		^
1		Ť
	< Back Next >	Cancel
	Source Networks VM Network Description:	Map the networks used in this OVF template to networks in your inventory         Source Networks       Destination Networks         VM Network       VM Network         Description:       The VM Network network

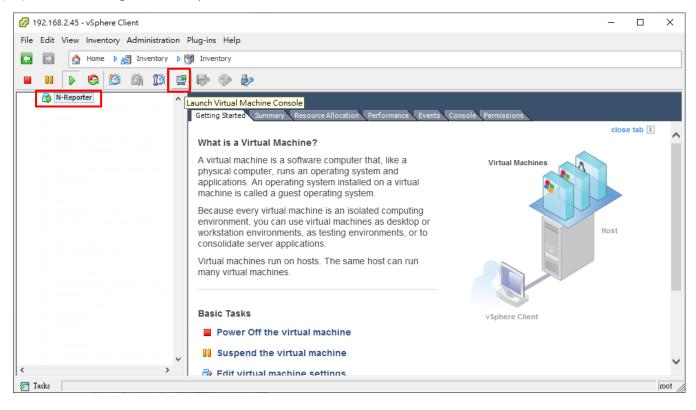


(9) Check the information, check "Power on after deployment" and click "Finish" to start virtual

machine deploying.

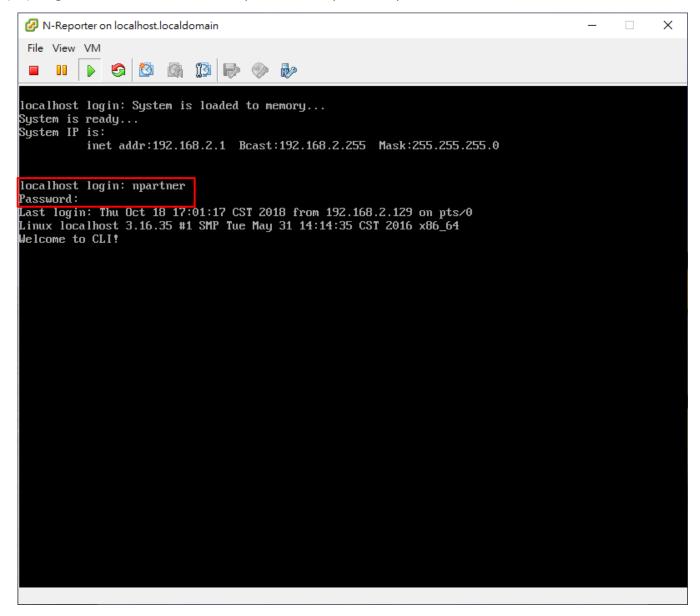
🕗 Deploy OVF Template			_		$\times$
Ready to Complete					
Are these the options yo	u want to use?				
Source					
OVF Template Details	When you click Finish, the deploy	ment task will be started.			
Name and Location Storage	Deployment settings: OVF file:	Dubb cloude a Desertes 5000 aut			
Disk Format	Download size:	D:\N-Cloud6.0_Reporter_500G.ova 1.3 GB			
Network Mapping	Size on disk:	1.3 GB 504.0 GB			
Ready to Complete	Name:	N-Reporter			
	Host/Cluster:	localhost.			
	Datastore:	datastore2			
	Disk provisioning:	Thick Provision Lazy Zeroed			
	Network Mapping:	"VM Network" to "VM Network"			
	Power on after deployment				
	Hower on alter deployment	1			
		and the	inh I	0	
		< Back Fin	ish	Car	icei

(10) After finishing, click N-Reporter virtual machine, and click "Launch Virtual Machine Console."





(11) Log in CLI. The default account/password is npartner/npartner.



(12) Check the settings of N-Reporter.

Reporter# show configure

Reporter# show configure ######### Current configuration ######### hostname Reporter https-only on interface eth0 192.168.2.1 255.255.255.0 gw 192.168.2.253 ip dns1 168.95.1.1 ip dns2 8.8.8.8 ntpdate tick.stdtime.gov.tw ######### End ########



#### (13) Change N-Reporter IP address.

#### Reporter# configure terminal

Reporter(config)# interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253

Reporter(config)# exit

Reporter# show configure

Reporter# configure terminal Reporter(config)# interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253 Reporter(config)# exit Reporter# show configure ######### Current configuration ######## hostname Reporter https-only on interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253 ip dns1 168.95.1.1 ip dns2 8.8.8.8 ntpdate tick.stdtime.gov.tw ######### End #######

IP setting: interface [interface] [N-Reporter\_IP] [subnet\_mask] gw [gateway\_IP]

Please enter N-Reporter's IP address as the red part above.



# 3.2 vSphere Web Client

(1) Open a browser and enter https://<VMware IP>, user name, and password. Click "Login."

- 0	
⊻ ∥\ ⊡	Ξ
re <sup>®</sup> ESXi <sup>®</sup>	
Э	are esxi



### (2) Click "Create/Register VM."

	VMwar × +		
-)→ C' û	(i) 🚯 https://192.168.2.42/ui/#/host	▽ ☆	\ ⊡
k 最常瀏覽	🖨 FAQ - N-Partner KB 💮 NP Decode 🕇	Customerl P 🖬 N-Partner CLI 🜐 N-Partner 後台管理 🚹 FAQ	
<b>m</b> ware <sup>,</sup> Esxi <sup>-</sup>		root@192.168.2.42 →   Help →   Q Search	
📽 Navigator	ESXi42.npartnertech		
Manage Monitor ▷ ∰ Virtual Machines ▷ ∰ Storage ▷ ♀ Networking	ESXi42.npartne Version: 6.5.0	(Build 4887/30) al (not connected to any vCenter Server) days MEMORY FREE: USED: 18.09 GB CAPACITY:	: 13.4 GHz 2% : 13.8 GHz : 13.87 GB 57%
	SSH is enabled on this host.	USED: 4.48 TB CAPACITY You should disable SSH unless it is necessary for administrative purposes.	41% : 10.91 TB
			: 10.91 TB
	Actions		: 10.91 TB
	Actions - Hardware	You should disable SSH unless it is necessary for administrative purposes.	: 10.91 TB
	Actions     Hardware     Manufacturer	You should disable SSH unless it is necessary for administrative purposes. Supermicro	: 10.91 TB
	Actions     Hardware     Manufacturer     Model	You should disable SSH unless it is necessary for administrative purposes. Supermicro X10SLM-F	: 10.91 TB
	Actions  Hardware  Manufacturer  Model  CPU	You should disable SSH unless it is necessary for administrative purposes.         Violation         Supermicro         X10SLM-F         4 CPUs x Intel(R) Xeon(R) CPU E3-1231 v3 @ 3.40GHz	: 10.91 TB
	Actions  Hardware  Manufacturer  Model  Du  CPU  Memory	You should disable SSH unless it is necessary for administrative purposes.         Violation         Supermicro         X10SLM-F         4 CPUs x Intel(R) Xeon(R) CPU E3-1231 v3 @ 3.40GHz         31.96 GB	: 10.91 TB
	Actions  Hardware  Manufacturer  Model  CPU  Memory  CU Virtual flash	You should disable SSH unless it is necessary for administrative purposes.         Violation         Supermicro         X10SLM-F         4 CPUs x Intel(R) Xeon(R) CPU E3-1231 v3 @ 3.40GHz         31.96 GB	: 10.91 TB



(3) Select "Deploy a virtual machine from an OVF or OVA file" and click "Next."

🔁 New virtual machine		
<ul> <li>Select creation type</li> <li>Select OVF and VMDK files</li> <li>Select storage</li> <li>License agreements</li> <li>Deployment options</li> </ul>	Select creation type How would you like to create a Virtual Machine?	This option guides you through the process of creating a virtual machine from an OVF and VMDK files.
6 Additional settings 7 Ready to complete	Deploy a virtual machine from an OVF or OVA file Register an existing virtual machine	
<b>vm</b> ware <sup>®</sup>	~	Back Next Finish Cancel

(4) Enter a name for the virtual machine and click the N-Reporter OVA file. Click "Next."

🔁 New virtual machine - N-Reporter	
<ul> <li>1 Select creation type</li> <li>2 Select OVF and VMDK files</li> <li>3 Select storage</li> <li>4 License agreements</li> <li>5 Deployment options</li> <li>6 Additional settings</li> </ul>	Select OVF and VMDK files Select the OVF and VMDK files or OVA for the VM you would like to deploy Enter a name for the virtual machine. N-Reporter
7 Ready to complete	Virtual machine names can contain up to 80 characters and they must be unique within each ESXi instance.
<b>vm</b> ware <sup>®</sup>	Back Next Finish Cancel



(5) Select a datastore and click "Next."

47							
🔁 New virtual machine - N-Reporter							
✓ 1 Select creation type	Select storage						
<ul> <li>2 Select OVF and VMDK files</li> </ul>	Select the datastore in which to store the configuration and disk files.						
<ul> <li>3 Select storage</li> <li>4 License agreements</li> <li>5 Deployment options</li> </ul>	The following datastores are accessible from the destination resource that you selected. Select the destination datastore for						
6 Additional settings	the virtual machine configuration files and all o						
7 Ready to complete	Name ~	Capacity 🗸	Free 🗸	Type 🗸	Thin pro 🗸	Access ~	
	datastore1	10.91 TB	6.43 TB	VMFS6	Supported	Single	
						1 items	
vmware							
			Bac	k Next	Finish	Cancel	

(6) Select the network of the virtual machine and click "Thick" for "Disk provisioning." Click "Next."

Select "Thick" for the virtual machine to have the space it required. (Note 4)

🔁 New virtual machine - N-Reporter			
<ul> <li>1 Select creation type</li> <li>2 Select OVF and VMDK files</li> <li>3 Select storage</li> <li>4 Deployment options 5 Ready to complete</li> </ul>	Deployment options Select deployment options		
	Network mappings Disk provisioning	VM Network VM Network   O Thin  Thick	
vmware			
		Back Next Finish Car	ncel

Note 4: Please do not select "Thin." When the datastore N-Reporter virtual machine in is



full, N-Reporter will not be able to operate and will lose data.

(7) Check the settings and click "Finish" to start deploying.

Review your settings selection be	Review your settings selection before finishing the wizard				
Product	NC6.0_Reporter_500G_v6.0.185_lite_n03				
VM Name	N-Reporter				
Disks	NC6.0_Reporter_500G_v6.0.185_lite_n03- disk1.vmdk,NC6.0_Reporter_500G_v6.0.185_lite_n03-disk2.vmdk				
Datastore	datastore1				
Provisioning type	Thick				
Network mappings	VM Network: VM Network				
Guest OS Name	Unknown				
Do not refresh you	ur browser while this VM is being deployed.				
	Product VM Name Disks Datastore Provisioning type Network mappings Guest OS Name				

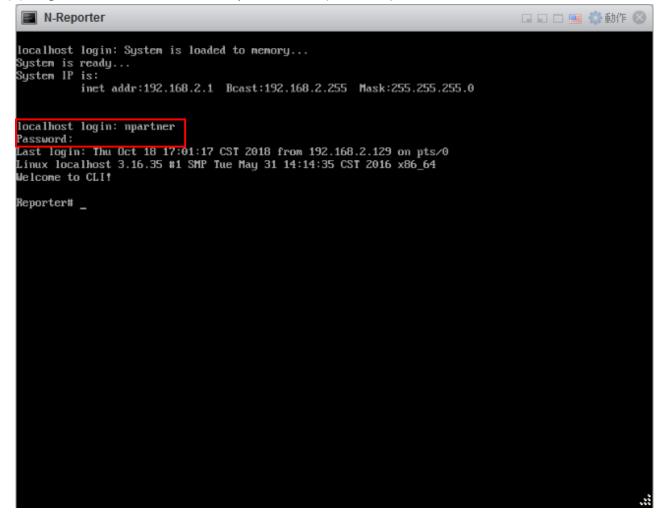


(8) Then, click "N-Reporter" and click the square as the picture below.

vmware <sup>®</sup> ESXi <sup>®</sup>			root@192.	168.1.5 ▼   Help ▼   Q Search ▼
Navigator	🔂 N-Reporter			
Host     Manage     Monitor     Monitor     Monitor     Monitor     Monitor	N- Gu Cc VM CF	er on Power off Suspend Resta Reporter lest OS Debian GNU/Linux 6 (64-bit) mpatbillity ESXI 5.5 virtual machine Aware Tools No Vus 4 amory 16 GB		INS CPU 0 MHz MEMORY 0 B STORAGE 504 GB
Storage 2 Q Networking 2	operations on the guest OS, e.	n this virtual machine. VMware Tools allows d g. graceful shutdown, reboot, etc. You should	install VMware Tools. 🔹 Actions	as well as allowing you to perform
	✓ General Information		✓ Hardware Configuration	
	Metworking	No network information	CPU	4 vCPUs
	VMware Tools	VMware Tools is not installed.	Memory	16 GB
	▶ 🗐 Storage	2 disks	_	
	Division Notes	🥒 Edit notes	Hard disk 2      Metwork adapter 1	500 GB TAC Network (Connected)
	Recent tasks			



(9) Log in CLI. The default account/password is npartner/npartner.



(10) Check the settings of N-Reporter.

Reporter# show configure



#### (11) Change N-Reporter IP address.

#### Reporter# configure terminal

Reporter(config)# interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253

Reporter(config)# exit

Reporter# show configure

Reporter# configure terminal Reporter(config)# interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253 Reporter(config)# exit Reporter# show configure ######### Current configuration ######## hostname Reporter https-only on interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253 ip dns1 168.95.1.1 ip dns2 8.8.8 ntpdate tick.stdtime.gov.tw ######### End #######

IP setting: interface [interface] [N-Reporter\_IP] [subnet\_mask] gw [gateway\_IP]

Please enter N-Reporter's IP address as the red part above.

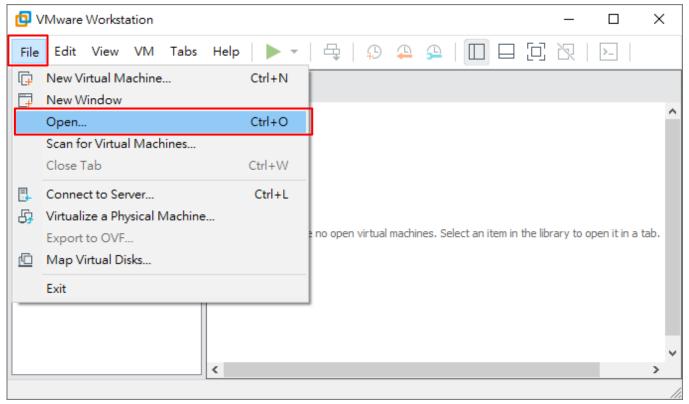


## 3.3 VMware Workstation

(1) Open "VMware Workstation."



#### (2) Click "File → Open...."





🔁 Open More and Annual Annua Q Search N-Cloud6\_Reporter\_5... ບ  $\uparrow$ Organize 🔻 New folder Name Date modified 📌 Quick access N-Cloud6\_Reporter\_500G\_6.1.103 1/21/2021 10:10 AM 📃 Desktop \* 🕹 Downloads \* Documents \*  $\checkmark$ < File name: All supported files  $\sim$ Open Cancel •

 $\times$ 

?

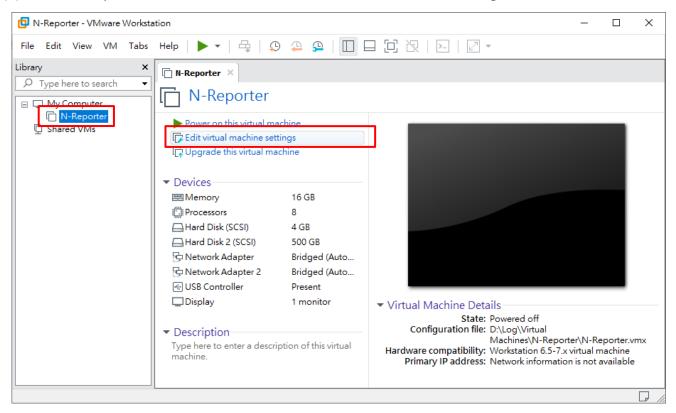
>

(3) Select the N-Reporter OVA file and click "Open."

(4) Enter a name for the virtual machine and select a storage path. Click "Import."

Import Virtual Machine				
Store the new Virtual Machine Provide a name and local storage path for the new virtual machine.				
Name for the new virtual machine:				
N-Reporter				
Storage path for the new virtual machine:				
D:\Log\Virtual Machines\N-Reporter Browse				
Help Cancel				





(5) Select N-Reporter virtual machine and click "Edit virtual machine settings."



(6) Select "Network Adapter." Select "Connect at power on" and "Bridged."

Virtual Machine Settings Hardware Options		×
Device Memory Processors Hard Disk (SCSI) Network Adapter Network Adapter 2 USB Controller Display	Summary 16 GB 8 4 GB 500 GB Bridged (Automatic) Present 1 monitor 4 dd Remove	Device status Connected Connect at power on Network connection Replicate physical network connection state NAT: Used to share the host's IP address Host-only: A private network shared with the host Custom: Specific virtual network VMnet0 LAN segment: LAN Segments Advanced
		OK Cancel Help



Device Memory Processors Hard Disk (SCSI) Hard Disk 2 (SCSI) Network Adapter Network Adapter 2 USB Controller	Bridged (Automatic) Bridged (Automatic)	Connections USB compatibility: USB 2.0  Show all USB input devices Share Bluetooth devices with the virtual mach
L_Display	Present 1 monitor	

Add...

Remove

(7) Select "USB Controller" and click "Remove."



OK

Cancel

Help

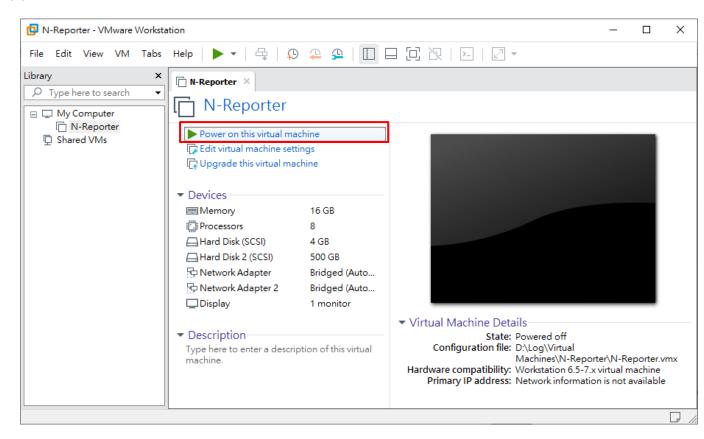
 $\times$ 

### (8) Click "OK."

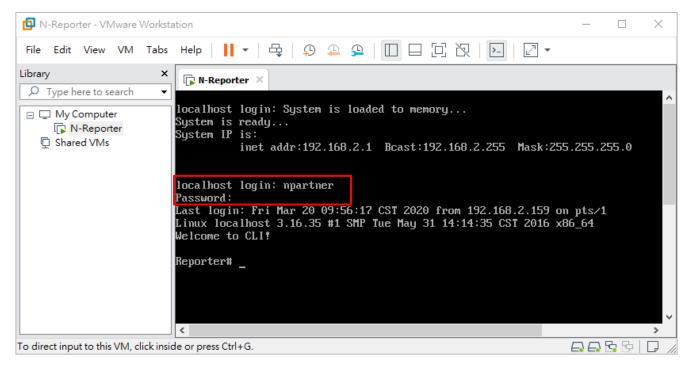
/irtual Machine Settings		×
Hardware Options		
Device Memory Processors Hard Disk (SCSI) Hard Disk 2 (SCSI) Network Adapter Network Adapter 2 Display	Summary 16 GB 8 4 GB 500 GB Bridged (Automatic) Bridged (Automatic) 1 monitor 1 monitor Add Remove	3D graphics         Accelerate 3D graphics         Monitors         O Use host setting for monitors         ③ Specify monitor settings:         Number of monitors:         1         Maximum resolution of any one monitor:         2560 x 1600         ✓         Manually specifying the number and size of monitors may prevent Unity and Full Screen modes from working correctly.         Display scaling         Stretch mode:         ③ Keep aspect ratio stretch         Stretch the virtual machine display while maintaining the user interface aspect ratio         Free stretch         Stretch the virtual machine display to fill the user interface, without maintaining the user interface aspect ratio
		OK Cancel Help



(9) Click "Power on this virtual machine."



(10) Log in CLI. The default account/password is npartner/npartner.





#### (11) Check the settings of N-Reporter.

Reporter# show configure

Reporter# show configure ######## Current configuration ######## hostname Reporter https-only on interface eth0 192.168.2.1 255.255.255.0 gw 192.168.2.253 ######## End ####### Reporter# \_

(12) Change N-Reporter IP address.

Reporter# configure terminal

Reporter(config)# interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253

Reporter(config)# exit

Reporter# show configure

Reporter# configure terminal Reporter(config)# interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253 Reporter(config)# exit Reporter# show configure ######### Current configuration ######### hostname Reporter https-only on interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253 ######### End ######## Reporter#

IP setting: interface [interface] [N-Reporter\_IP] [subnet\_mask] gw [gateway\_IP]

Please enter N-Reporter's IP address as the red part above.

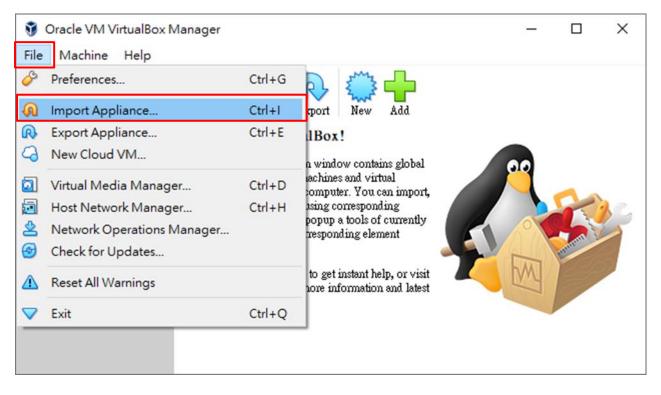


## 3.4 VirtualBox

(1) Open "Oracle VM VirtualBox."



### (2) Click "File $\rightarrow$ Import Appliance..."





(3) Select the N-Reporter OVA file and click "Open."

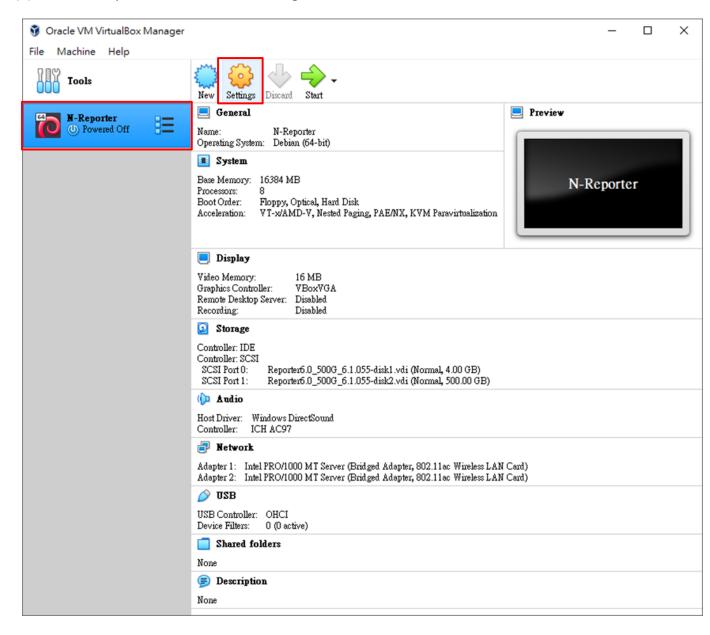
💱 Please choose	a virtual a	ppliance file to in	nport							×
$\leftarrow \rightarrow \checkmark \uparrow$	📜 « Do	ownloads 🕨 N-C	Cloud6_Reporter_500	)G.hpv	~	U	,∕⊂ Sear	ch N-Cloud6	5_Report	ter_5
Organize 🔻	New fold	er								?
length of the second se	^	Name	^		Date modifi	ed	Туре	Size		
S This PC	l	🥵 Reporter6.0_	500G_6.1.055.ova		2020/3/20	)	Open Virtualiza.	1,114,8	89 KB	
I Network										
	*									
	File na	ame:				~	Open Virtu	alization Foi	rmat (*.c	<b>DI</b> (**)
							Open	<b>~</b>	Cancel	

(4) Enter a name for the virtual machine and select a path. Click ""Import.

Source	Settings	
Local File System	<ul> <li>Virtual System 1</li> </ul>	
D:\tmp\Reporter6.0_500G_6.1.055.ova	🔀 😸 Name	N-Reporter
	Guest OS Type	🙋 Debian (64-bit)
	CPU	8
	RAM	16384 MB
	🖉 USB Controller	
	Network Adapter	Intel PRO/1000 MT Serve
	Network Adapter	Intel PRO/1000 MT Serve
	Storage Controller (IDE)	PIIX4
	Storage Controller (IDE)	PIIX4
	✓ ♦ Storage Controller (SCS)	l) LsiLogic
	Virtual Disk Image	Reporter6.0_500G_6.1.055-d
	Virtual Disk Image	Reporter6.0_500G_6.1.055-d
	Base Folder	D:\VM\VirtualBox
	🔞 Primary Group	1
	Machine Base Folder:	rtualBox
	MAC Address Policy: Include only N	AT network adapter MAC addresses
	Additional Options: V Import hard	



(5) Select N-Reporter VM and click "Settings."





- ?  $\times$ 😳 N-Reporter - Settings System General Motherboard System Processor Acceleration Base Memory: 16384 MB 韋 Display 4 MB 16384 MB Storage 🗹 🙆 Hard Disk + Boot Order: Audio 🗌 💿 Optical ŧ 🗌 💾 Floppy Network Network Serial Ports Chipset: PIIX3 Ŧ Pointing Device: PS/2 Mouse Ŧ USB Extended Features: 🗹 Enable I/O APIC Shared Folders Enable EFI (special OSes only) User Interface Hardware Clock in UTC Time Invalid settings detected 📠 🗖 OK Cancel
- (6) Click "System," click "Motherboard" and select "Hard Disk" in "Boot Order."



🛞 N-Reporter - Settin	ngs	?	×
General	Display		
System	Screen Remote Display Recording		
Display	Video Memory:	16 MB	-
Storage	0 MB 128 ME		
🕩 Audio	Monitor Count:	8	\$
Network	Scale Factor: All Monitors 🔻	100%	•
🚫 Serial Ports	Min M Graphics Controller: VMSVGA -	4ax	
🖉 USB	Acceleration: Enable 3D Acceleration		
Shared Folders			
User Interface			
	OK	Can	cel

(7) Go to "Display," click "Screen" and select "VMSVGA."



(8) Go to "Audio" and uncheck "Enable Audio."

🥹 N-F	Reporter - Settin	gs	?	×
	General	Audio		
	System	Enable Audio		
	Display	Host Audio Driver: Windows DirectSound 🔝		
	Storage	Audio Controller: ICH AC97 - Extended Features: Enable Audio Output		
4 🕩	Audio	Enable Audio Input		
	Network			
ء 🕥	Serial Ports			
🆉 (	USB			
	Shared Folders			
	User Interface			
		OK	Cano	el



(9) Go to "Network," check "Enable Network Adapter" and select "Bridged Adapter."

N-Reporter - Settings		?	×
General Network			
System Adapter 1 Adapt	er 2 Adapter 3 Adapter 4		
Display 🗹 Enable Network A			
Storage Storage	Bridged Adapter 👻 802.11ac Wireless LAN Card		_
Audio	OUZ.ITAC WHELESS LAW CAR		•
Network			
Serial Ports			
DSB 🖉			
Shared Folders			
User Interface			
	OK	Canc	el



(10) Go to "Serial Ports" and check "Enable Serial Port."

N-Reporter - Settings		?	×
General Serial P	orts		
System Port 1	Port 2 Port 3 Port 4		
	Serial Port		
Storage	Number: COM1  VIRQ: 4 I/O Port: 0x3F8 It Mode: Disconnected		
Audio	Connect to existing pipe/socket		
Network Path/	Address:		
Serial Ports			
DSB USB			
Shared Folders			
User Interface			
	OK	Cano	cel

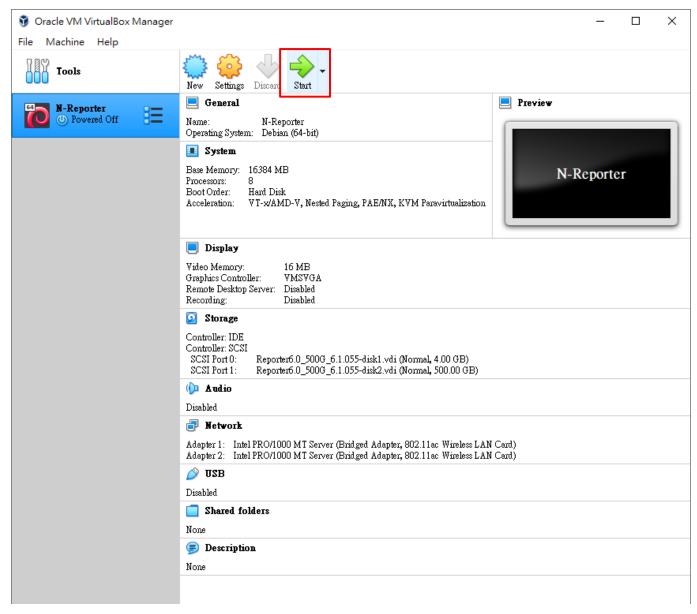


(11) Go to "USB," uncheck "Enable USB Controller," and click "OK."

😳 N-Reporter - Settir	ngs ?	×
General	USB	
System	Enable USB Controller	
Display	USB 1.1 (OHCI) Controller     USB Device Filters	
Storage		
🕩 Audio		
Network		ß
Serial Ports		
🤌 USB		
Shared Folders		
User Interface		
	OK Ca	ncel

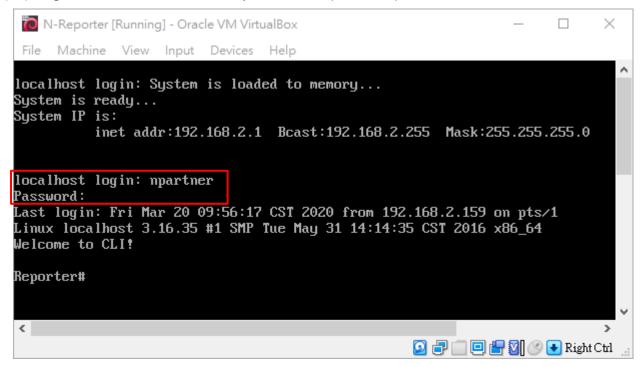


### (12) Click "Start."





(13) Log in CLI. The default account/password is npartner/npartner.



### (14) Check the settings of N-Reporter.

Reporter# show configure	
Reporter# show configure	
######## Current configuration ########	
hostname Reporter	
https-only on	
interface eth0 192.168.2.1 255.255.255.0 gw 192.168.2.253	
######## End #######	
Reporter#	



### (15) Change N-Reporter IP address.

#### Reporter# configure terminal

Reporter(config)# interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253

Reporter(config)# exit

Reporter# show configure

Reporter# configure terminal Reporter(config)# interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253 Reporter(config)# exit Reporter# show configure ######### Current configuration ######### hostname Reporter https-only on interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253 ######### End ######## Reporter#

IP setting: interface [interface] [N-Reporter\_IP] [subnet\_mask] gw [gateway\_IP]

Please enter N-Reporter's IP address as the red part above.



# 3.5 Hyper-V

(1) Open "Hyper-V Manager."



### (2) Click "Import Virtual Machine."

Hyper-V Manager		- 🗆 X
File Action View Help		
🗢 🄿 🞽 🖬 🚺 🖬		
🔠 Hyper-V Manager	Virtual Machines Ac	ctions
HYPER-V		YPER-V
		Quick Create
	No virtual machines were found on this server.	New 🕨
		🛓 Import Virtual M
		Hyper-V Settings
		Virtual Switch Ma
		Virtual SAN Man
	Checkpoints	🖌 Edit Disk
	No virtual machine selected.	Inspect Disk
		Stop Service
		Kemove Server
	0	Refresh
		View 🕨
		Help
	Details	
	No item selected.	



### (3) Click "Next."

Import Virtual Machine     Before You	egin	×
Before You Begin Locate Folder Select Virtual Machine	This wizard helps you import a virtual machine from a set of configuration files. It guides you through resolving configuration problems to prepare the virtual machine for use on this computer.	
Choose Import Type		
Summary	Do not show this page again	
	< Previous Next > Finish Cancel	



(4) Click "Browse" and select the folder to import. Click "Next."

Import Virtual Machine     Locate Folder		×
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Summary	Specify the folder containing the virtual machine to import. Folder: C:\VM\N-Cloud6_Reporter_500G\	Browse
	< Previous Next > Finish	Cancel



(5) Check the virtual machine and click "Next."

Import Virtual Machine		×
Select Virtual	Machine	
Before You Begin	Select the virtual machine to import:	
Locate Folder Select Virtual Machine	Name Date Created	
Choose Import Type Summary	N-Cloud6_Reporter_500G 12/21/2020 3:11:57 PM	
	< Previous Next > Finish Cance	el



(6) Select "Copy the virtual machine" and click "Next."

Import Virtual Machine     Choose Impo	×
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Summary	Choose the type of import to perform: <ul> <li>Register the virtual machine in-place (use the existing unique ID)</li> <li>Restore the virtual machine (use the existing unique ID)</li> </ul> <li>Opy the virtual machine (create a new unique ID)</li>
	< Previous Next > Finish Cancel



(7) Select paths for the virtual machine and click "Next."

Import Virtual Machine		×
Choose Fo	lders for Virtual Machine Files	
Before You Begin Locate Folder	You can specify new or existing folders to store the virtual machine files. Otherv imports the files to default Hyper-V folders on this computer, or to folders specif machine configuration.	
Select Virtual Machine Choose Import Type Choose Destination	Store the virtual machine in a different location Virtual machine configuration folder:	
Choose Destination Choose Storage Folders Summary	C:\ProgramData\Microsoft\Windows\Hyper-V\ Checkpoint store:	Browse
	C:\Hyper-V\VMs\Hyper-V_N-Cloud6_Reporter_500G Smart Paging folder:	Browse
	C:\Hyper-V\VMs\Hyper-V_N-Cloud6_Reporter_500G	Browse
	< Previous Next > Finite	sh Cancel



(8) Select a path for the virtual hard disks and click "Next."

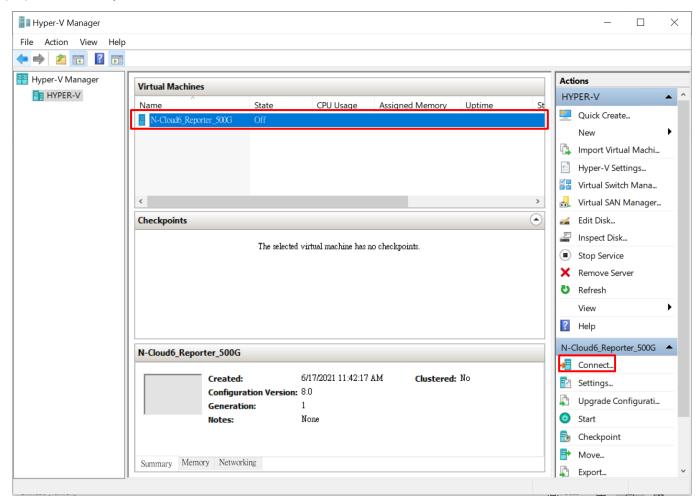
Import Virtual Machine  Choose Folde	×
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Choose Destination Choose Storage Folders Summary	Where do you want to store the imported virtual hard disks for this virtual machine?         Location:       C:\Hyper-V\VMs\N-Cloud_6_Reporter_500G\Virtual Hard Disks         Browse
	< Previous Next > Finish Cancel



### (9) Click "Finish."

Import Virtual Machine		×
Completing In	mport Wizard	
Before You Begin Locate Folder Select Virtual Machine Choose Import Type Choose Destination Choose Storage Folders Configure Memory Connect Network Connect Network Summary	You are about to perform the following Description: Virtual Machine: Import file: Import Type: Virtual machine configuration folder: Checkpoint folder: Smart Paging file store: Virtual hard disk destination folder:	N-Cloud6_Reporter_500G C:\VM\V-Cloud6_Reporter_500G\Virtual Machines\F46CBA67-99B7-4 Copy (generate new ID) C:\ProgramData\Microsoft\Windows\Hyper-V\ C:\Hyper-V\VMs\Hyper-V_N-Cloud6_Reporter_500G C:\Hyper-V\VMs\Hyper-V_N-Cloud6_Reporter_500G C:\Hyper-V\VMs\N-Cloud_6_Reporter_500G\Virtual Hard Disks
	<	vizard, dick Finish.
		< Previous Next > Finish Cancel

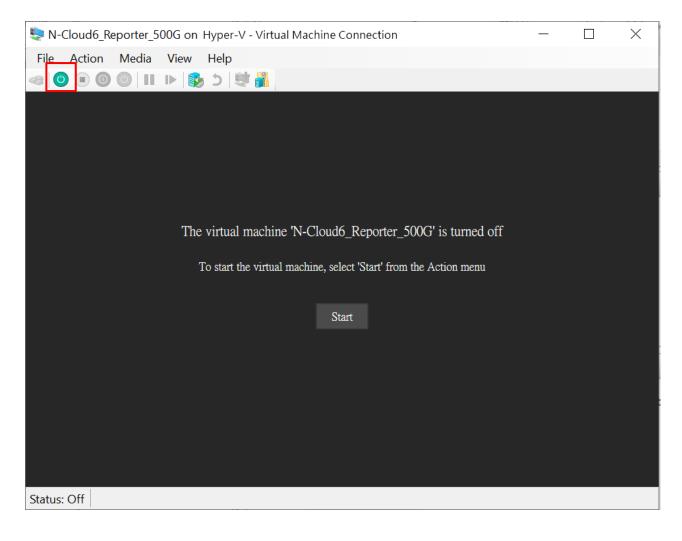




### (10) Select N-Reporter VM and click "Connect."

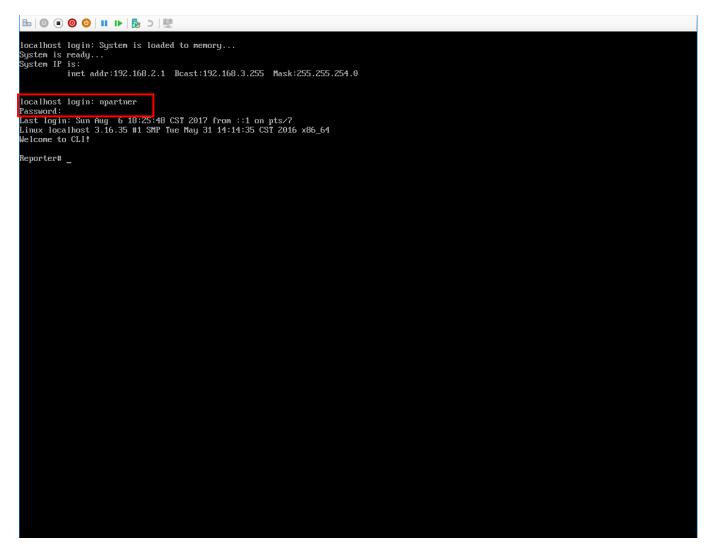


### (11) Click "Start."





(12) Log in CLI. The default account/password is npartner/npartner.



(13) Check the settings of N-Reporter.

Reporter# show configure

Reporter# show configure ######### Current configuration ######### hostname Reporter https-only on interface eth0 192.168.2.1 255.255.254.0 gw 192.168.3.254 ip dns1 168.95.1.1 ip dns2 8.8.8.8 ntpdate tock.stdtime.gov.tw ######### End ########



### (14) Change N-Reporter IP address.

#### Reporter# configure terminal

Reporter(config)# interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253

Reporter(config)# exit

Reporter# show configure

Reporter# configure terminal Reporter(config)# interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253 Reporter(config)# exit Reporter# show configure ######### Current configuration ######## hostname Reporter https-only on interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253 ip dns1 168.95.1.1 ip dns2 8.8.8 ntpdate tock.stdtime.gov.tw ######### End #######

IP setting: interface [interface] [N-Reporter\_IP] [subnet\_mask] gw [gateway\_IP]

Please enter N-Reporter's IP address as the red part above.



# 3.6 KVM

Please set as the following steps to send N-Reporter OVA file to KVM Server.

(1) Check KVM version.

```
#/usr/libexec/qemu-kvm --version
[root@KVM ~]# /usr/libexec/qemu-kvm --version
QEMU emulator version 4.2.0 (qemu-kvm-4.2.0-48.module_el8.4.0+885+5e18b468.3)
Copyright (c) 2003-2019 Fabrice Bellard and the QEMU Project developers
[root@KVM ~]#
```

### (2) Unzip OVA file.

# tar -xvf N-Cloud6\_Reporter\_500G\_6.1.128.ova

<pre>[root@KVM ~]# tar -xvf N-Cloud6_Reporter_500G_6.1.128.ova</pre>
N-Cloud6_Reporter_500G_6.1.128.ovf
N-Cloud6_Reporter_500G_6.1.128.mf
N-Cloud6_Reporter_500G_6.1.128-disk1.vmdk
N-Cloud6_Reporter_500G_6.1.128-disk2.vmdk
N-Cloud6_Reporter_500G_6.1.128-file1.nvram
[root@KVM ~]#

(3) Transfer DOM vmdk file to qcow2 file.

# qemu-img convert -f vmdk N-Cloud6\_Reporter\_500G\_6.1.128-disk1.vmdk -O qcow2 N-Reporterdisk1.qcow2

[root@KVM ~]# qemu-img convert -f vmdk N-Cloud6\_Reporter\_5006\_6.1.128-disk1.vmdk -0 qcow2 N-Reporter-disk1.qcow2
[root@KVM ~]#

(4) Check the format of the qcow2 file.

# qemu-img info N-Reporter-disk1.qcow2



<pre>[root@KVM ~]# qemu-img info N-Reporter-disk1.qcow2</pre>
<pre>image: N-Reporter-disk1.qcow2</pre>
file format: qcow2
virtual size: 4 GiB (4294967296 bytes)
disk size: 1.57 GiB
cluster_size: 65536
Format specific information:
compat: 1.1
lazy refcounts: false
refcount bits: 16
corrupt: false
[root@KVM ~]#

#### (5) View debian OS of the virtual machine.

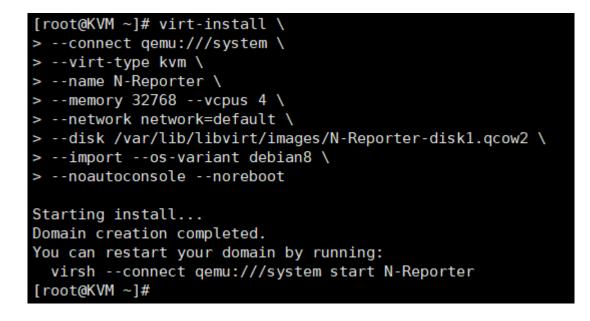
# osinfo-query or	s   egrep -i debian		
[root@KVM ~]# osinf	o-query os   egrep -i debian		
debian1.1	Debian GNU/Linux 1.1	1.1	http://debian.org/debian/1.1
debian1.2	Debian GNU/Linux 1.2	1.2	http://debian.org/debian/1.2
debian1.3	Debian GNU/Linux 1.3	1.3	http://debian.org/debian/1.3
debian10	Debian 10	10	http://debian.org/debian/10
debian2.0	Debian GNU/Linux 2.0	2.0	http://debian.org/debian/2.0
debian2.1	Debian GNU/Linux 2.1	2.1	http://debian.org/debian/2.1
debian2.2	Debian GNU/Linux 2.2	2.2	http://debian.org/debian/2.2
debian3	Debian GNU/Linux 3.0	3.0	http://debian.org/debian/3
debian3.1	Debian GNU/Linux 3.1	3.1	http://debian.org/debian/3.1
debian4	Debian GNU/Linux 4.0	4.0	http://debian.org/debian/4
debian5	Debian GNU/Linux 5.0	5.0	http://debian.org/debian/5
debian6	Debian 6.0	6.0	http://debian.org/debian/6
debian7	Debian 7	7	http://debian.org/debian/7
debian8	Debian 8	8	http://debian.org/debian/8
debian9	Debian 9	9	http://debian.org/debian/9
debiantesting	Debian testing	testing	http://debian.org/debian/testing
[root@KVM ~]#			

### (6) Build N-Reporter.

#### # virt-install \

- > --connect qemu:///system \
- > --virt-type kvm \
- > --name N-Reporter \
- > --memory 32768 --vcpus 4 \
- > --network network=default \
- > --disk /var/lib/libvirt/images/N-Reporter-disk1.qcow2
- > --import --os-variant debian8 \
- > --noautoconsole --noreboot





For the red parts above, please enter the name of the virtual machine, network name, and the path of the qcow2 file.

(7) View N-Reporter VM status.



(8) Open "Virtual Machine Manager."





(9) Click "Open."

Virtual Machine Manager		
File Edit View Help		
Den 🕞 💷	•	
Name		
▼ QEMU/KVM		
N-Reporter Shutoff		

(10) Click 🗑 "virtual hardware details."

	N-Reporter on QEMU/KVM ×		
File	Virtual Machine	View Send Key	
			0 0 0 0
		Guest is not running.	



### (11) Click "Add Hardware."

N-Reporter on QEMU/KVM				×	
File Virtual Mach	iine View S	end Key			
	> 00 🖸	•			6 0 0
🖳 Overview		Details )	XML		
OS informat		Basic Details			
CPUs		Name:	N-Reporter		
🚟 Memory		UUID:	be53f1d9-9dbc-4e15-8	3a26-39b7bd23l	b6dd
Boot Option	s	Status:	Shutoff		
VirtlO Disk 1 Image: State of the		Title:			
📝 Tablet		Description:			
🛋 Keyboard 🕎 Display Spic	e				
Sound ich6 Serial 1 Channel qen Channel spic Video QXL Controller U	nu-ga ce SB 0 CI 0 irtIO Serial 0 ctor 1 ctor 2	Hypervisor De Hypervisor: Architecture: Emulator: Chipset: Firmware:	KVM	n	
Add Hard	ware			Cancel	Apply



(12) Click "Storage," set 500 GiB for storage, and click "Finish."

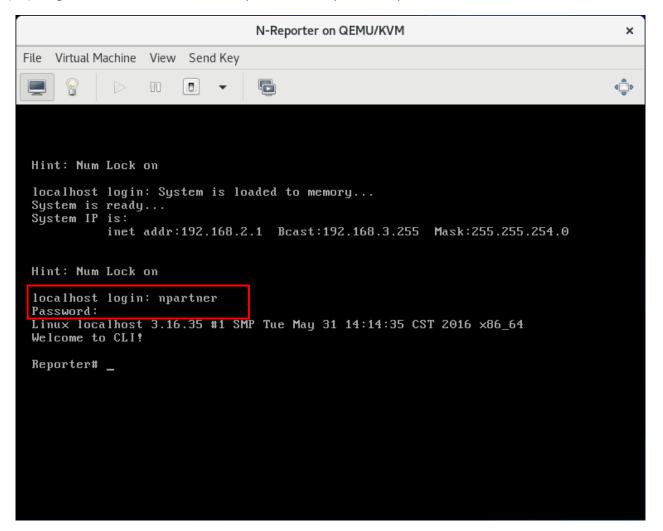
		Add New Virtual Hardware	×
	Storage	Storage	
	Controller		
ē	Network	Details XML	
۲	Input	Create a disk image for the virtual machine	
9	Graphics	500.0 <b>– +</b> GiB	
<b>E</b> F	Sound		
~	Serial	37.1 GiB available in the default location	
-	Parallel	<ul> <li>Select or create custom storage</li> </ul>	
-	Console	Manage	
~	Channel		
ŝ	USB Host Device	Device type: 📃 Disk device 👻	
- É	PCI Host Device		
<u> </u>	Video	Bus type: VirtIO 🕶	
E.	Watchdog	Advanced options	
	Filesystem		
2	Smartcard		
٢	USB Redirection		
	TPM		
	RNG		
ŝ	Panic Notifier		
ē	Virtio VSOCK		
		Cancel	1



(13) Two disks will show; click 🗁 "Power on the virtual machine." N-Reporter on QEMU/KVM × Virtual Machine View Send Key File P وڳ Overview Details **XML** OS information **Basic Details** Performance Name: N-Reporter CPUs Memory UUID: be53f1d9-9dbc-4e15-8a26-39b7bd23b6dd Boot Options Status: Shutoff 🖳 VirtlO Disk 1 Title: VirtIO Disk 2 Description: NIC :17:b3:7b 🚺 Tablet Mouse 🛋 Keyboard Hypervisor Details Display Spice Hypervisor: KVM Sound ich6 Architecture: x86\_64 🚵 Serial 1 Emulator: /usr/libexec/qemu-kvm 🚡 Channel qemu-ga i440FX Chipset: Channel spice Firmware: BIOS Video QXL Controller USB 0 Controller PCI 0 Controller VirtIO Serial 0 USB Redirector 1 USB Redirector 2 Add Hardware Cancel Apply



(14) Log in CLI. The default account/password is npartner/npartner.



(15) Check the settings of N-Reporter.

Reporter# show configure

(16) Change N-Reporter IP address.

Reporter# configure terminal Reporter(config)# interface eth0 192.168.8.184 255.255.254.0 gw 192.168.9.254 Reporter(config)# exit Reporter# show configure



Reporter# configure terminal Reporter(config)# interface eth0 192.168.8.184 255.255.254.0 gw 192.168.9.254 Reporter(config)# exit Reporter# show configure ######## Current configuration ######## hostname Reporter https-only on interface eth0 192.168.8.184 255.255.254.0 gw 192.168.9.254 ip dns1 168.95.1.1 ip dns2 8.8.8.8 ntp server on tock.stdtime.gov.tw ######### End ####### Reporter# \_

IP setting: interface [interface] [N-Reporter\_IP] [subnet\_mask] gw [gateway\_IP]

Please enter N-Reporter's IP address as the red part above.

(17) To add storage space, please format disk first.



# **4.Updating Process**

# 4.1 License Update

(1) Open a browser and enter <a href="https://<N-Reporter IP>">https://<N-Reporter IP></a> to connect to license register page. Click

"Get Machine Key."

← → C û 192.168.2.128/register.html?seed=1555041079432 □ ···· ♡ ☆ III\ □ ≡
此N-Reporter尚未取得合法授權,請依照以下步壓處理: (1)按「Get Machine Key」按鈕 下載「Machine Key file」 (2)將檔案及您的申請資料奇給 N-Reporter原廠以取得License • (3)按「Upload License」按鈕 上傳取得的「License file」 如果沒有自動跳轉到登入畫面,請按 這裡 N-Reporter start-up fail due to illegal license, please follow these steps: (1) Press "Get Machine Key" button to download "machine key file" (2) Send machine key file and your registration information to us (3) Press "Upload License" to upload license file If not auto re-direct to Login Page, please press here If cet Machine Key Upload License

(2) Download machine.dat and send it to <u>se@npartnertech.com</u>.

Please write as the format below:

Email format
Subject: N-Reporter Demo License Application
Contents:
Organization:
Applicant:
Email:
Contact number:
Service dealer or SI firm: (Not necessary)
Note:



(3) After getting license.np, please go to https://<*N*-*Reporter IP*> again and click "Upload License."

Click "Browse..." to select the license.np and click "Upload" to upload license file.

License Register	× +	-	D	×
← → ♂ ☆	(i) 192.168.2.128/register.html?seed=1555041079432	Ŧ	lii\ 🛈	≡ ≫
	<ul> <li>此N-Reporter尚未取得合法授權, 請依照以下步壓處理:</li> <li>(1) ダ 「Get Machine Key」按鈕 下帳「Machine Key file」</li> <li>(2) 將檔案及您的申請資料寄給 N-Reporter原廠以取得License .</li> <li>(3) 按 「Upload License」按鈕 上傳取得的「License file」</li> <li>如果沒有自動跳轉到登入重面, 請按 這禮</li> <li>M-Reporter start-up fail due to illegal license, please follow these steps:</li> <li>(4) Press "Get Machine Key" button to download "machine key file"</li> <li>(5) Send machine Key file and your registration information to us</li> <li>(6) Press "Upload License" to upload license file</li> <li>If to tauto re-direct to Login Page, please press here</li> <li>(5) <u>Cet Machine Key Upload License</u> Upload</li> </ul>			



(4) The system will then reboot automatically.

License Register	× +			×
$\overleftarrow{\leftarrow}$ $\rightarrow$ C $\textcircled{a}$	(i) 192.168.2.128/register.html?seed=1555041079432 🔳 ••• ♥ ☆	⊻	\ ⊡	≡
	upload Successful and Restarting. Please login N-Reporter later (1)按 r Get Machine Ke (2)將檔案及您的申請資料 (3)按 r Upload License (3)按 r Upload License (3)按 r Upload License (4) Press "Get Machine Key" button to download "machine key file" (4) Press "Get Machine Key" button to download "machine key file" (5) Send machine key file and your registration information to us (3) Press "Upload License" to upload license file If not auto re-direct to Login Page, please press here Cet Machine Key Upload License			»
	Copyright © 2009 <u>N-Partner</u> . All rights reserved.			



(5) After it reboots, connect to web login interface and log in N-Reporter backend.

The default front end account/password is admin/admin; the default backend account/password is superuser/admin.



(6) Check the current license status.

N-CLOUD								Eng	glish ~ 🗘 🧿 🔀 🗭 🔳
Superuser (Su	uperuser) ~	3	Home / System /	System					
<ul><li>System</li><li>User Manual</li></ul>					🚹 System Upgrade	R Import License	▲ Upload Firmware	Release Note	C System performance analysis
	G	i	Information						Auto Refresh 51
			System Time	2021/06/15 18:03:52 GMT+0800	Device				922 / 65536
			System Uptime	0032 Days 08:51	Domain				38 / 200
			License Expired	2025/12/31 23:59:59	Number of Manageable SN	MP Device			218 / 2000
			License Status	Demo					
			Kernel Version	20210205215643	Resource List				



# 4.2 Firmware Upgrade

## 4.2.1 WEB

(1) Open a browser and go to https://<*N*-*Reporter IP*>. Log in N-Reporter backend.

The default front end account/password is admin/admin; the default backend account/password is superuser/admin.

🔊 NCloud Login	×	<b>+</b> ->			25	\$	×
← → ♂ ଢ	🛈 🔏 http:	s://192.168.2.128		⊠ ☆	$\mathbf{\Psi}$	lii\	≡
		N-Repo	n rter				
		Username					
		Password					
		Login					
		Forgot passwo	rd?				
	C	2009 N-Partner, inc. All i	ights reserved.				



(2) Click "Upload Firmware" to upload the latest firmware.

<b>⊠N-Reporter</b>			English (U	/5)× 🤊 🗙 🕪 ≡		
Superuser (Superuser) ~	Home / System /	System				
😧 System 🛛 📾			🛅 Activate License 🤷 System Upgrade 🔍 Import License	1 Upload Firmware		
0						
	Information			Auto Refresh 🛛 106 🥑		
	System Time	2019/09/03 11:16:34 GMT+0800	Number of Syslog Device	13/999		
	System Uptime	0012 Days 21:31	Number of Manageable SNMP Device	8 / 999		
	License Expired	2019/12/31 23:59:59	Number of Server	5 / 999		
	License Status	Demo	Flow	Unlimited		
			Module Probe	On		
			III) Resource List			

(3) Click "Browse," select the firmware image and click "Import."

N N-CLOUD		English - 🗘 🤊 🐰 🕪 🚍
Superuser (Superuser) ~	Home / System / System	
🔅 System 🖽		🕰 System Upgrade 🛛 4: Import Licenses 👤 Upload Firmware 📄 Release Note 🖓 System performance analysis
User Manual	i Information	Auto Refresh 💈 🥑
	System Time 20 2 Upload Firmware	× 922 / 65536
	System Uptime 00	38 / 200
	License Expired 20 Include some files	Browse 218 / 2000
	Kernel Version 20	
	Machine List Probe List	2
	Search	
	Operation Machine Name	Utilization Status & Last Modified Volume
		Temp.   Fan  HDD  Raw Data  Normalized Data  Configuration  Report



- (4) An "Image upload" window will pop up, and the system will reboot.
- (5) Check the firmware version.

Reporter	9					English - 🗘 🤊 🐹 🕪 🚍
Superuser (Superuser) -	Home / System / System	n				
System	•				R <sub>e</sub> Import License	Release Note
User Manual						
	i Information					Auto Refresh 113 🥪
	System Time	2021/06/15 18:08:20 GMT+0800	Number of Syslog Device			44 / 100
	System Uptime	0032 Days 04:05	Number of Manageable SNMP D	Device		10 / 100
	License Expired	2025/12/31 23:59:59	Number of Server			7/100
	License Status	Demo	Flow			Unlimited
	Kernel Version	20210318113544	Module Probe			On
			Resource List			
3 김감성 문	Machine List Probe List					2
: 그런 신영 ~	Search		Q 2			
	Machine Name © Type ©	IP 0 Seq. No. 0	Version \$ Version \$	Hardware Monitoring	Disk Utilization	Status
	macrano reano 🗸 Typo 🤘	and No	1	iemp. ≎ Fan ≎ HDD ≎ Raw Deta ≎	Normalized Data   Configuration   F	Report \$
	Reporter (Reporter) Reporte	r 127.0.0.1 NP-RPT-B-TW-LA	6.1.123 (20210528- 0210318113544 1056)	• • • —	· ·	<ul> <li>2021/06/15</li> <li>18:05</li> </ul>



# 4.2.2 CLI

Connect to N-Reporter CLI with SSH tools, like Xshell or SecureCRT. Enter N-Reporter IP address and enter CLI account/password. The dafault account/password is npartner/npartner.

SSH Client without ZMODEM sending function, such as Putty, is not supported.

(1) View the current version.

Reporter# show version
Reporter# show version
Software version : 6.1.067 (20200730-1527) NP Kernel version : 20200623190103
Serial number :

(2) Upgrade system image.

Reporter# system image upgrade

Reporter# system image upgrade

(3) Confirm system image upgrade. Enter "y."

Current Version is [ncloud-6.1.067]. Do upgrade system image ? [n]/yy

- (4) Check whether the SSH Client can use ZMODEM to transfer file. If it can, enter "y." The transmission of image will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit Going to receive system image via zmodem. Please press y when ready, any key to abort, g to quitly
- (5) If users use Xshell, enter "y." Here, the client is SecureCRT, so enter "n." Do you using [XShell] as the termnal ? [y/N]n]

If users use Xshell, please do enter "y" to transfer file.

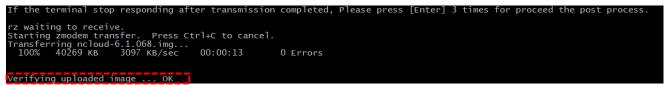


👼 Select Fil	les to Send using Zmode	m 🗧		×
Look in:	FTP	~ G 🤌	• 🔝	
Name	^	Date mo	dified	Ту
🔊 ncloud-	6.0.185.img	10/1/20	18 4:35 PM	D
<				>
File <u>n</u> ame:			Add	
Files of type:	All Files (*.*)	~		
The of the				
Eiles to send:	d-6.0. 185.img		Remove	
Eiles to send:	d-6.0. 185.img		Remove	

(6) Select the firmware image, click "Add," and click "OK."

(7) The transferring message will show. If the image is uploaded, "Verifying upload image ... OK"

will show.



(8) View the current firmware version.

```
Reporter# show version
Reporter# show version
Software version : 6.1.068 (20200731-0939)
NP Kernel version : 20200623190103
Serial number :
```

(9) Check N-Reporter status.

Reporter# system check



### 4.3 Kernel Upgrade

Connect to N-Reporter CLI with SSH tools, like Xshell or SecureCRT. Enter N-Reporter IP address and enter CLI account/password. The dafault account/password is npartner/npartner.

SSH Client without ZMODEM sending function, such as Putty, is not supported.

(1) View the current kernel version.

Reporter# show version

```
Reporter# show version
Software version : 6.1.055 (20200326-1520)
NP Kernel version : 20190606154029
Serial number :
```

(2) Upgrade Kernel.

Reporter#system kernel upgrade Reporter# system kernel upgrade

(3) Confirm Kernel upgrade. Enter "y."

Current Version is [20190606154029]. Do upgrade kernel ? [n]/y y

- (4) Check whether the SSH Client can use ZMODEM to transfer file. If it can, enter "y." The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit Going to receive kernel via ZMODEM. Please press y when ready. any key to abort. q to quity
- (5) If users use Xshell, enter "y." Here, the client is SecureCRT, so enter "n."

Do you using [XShell] as the termnal ? [y/N]n

If users use Xshell, please do enter "y" to transfer file.



Look in:	FTP		
Name	^	Date modified	T
np_kern	el.npz	6/17/2021 6:13 PM	N
٢			>
File <u>n</u> ame:		Add	
Files of <u>typ</u> e:	All Files (*.*)	~	
Files to send:			-
<u>Files to send:</u> C:\FTP\np_ke	ernel.npz	Remove	
	ernel.npz	Remove	-
	rnel.npz	<u>K</u> emovi	-
		Kemovi	-

(6) Select file "np Kernel.npz," click "Add," and click "OK."

(7) The transferring message will show.

_																		
If	the	terminal	stop	responding	after	transmission	completed,	Please	press	[Enter]	3	times	for	proceed	the	post	process.	
		ing to re																
Sta	irtin	ig zmodem	trans	sfer. Press	s Ctrl	+C to cancel.												
Tra	ınsfe	rring np	_kerne	el.npz														
1	.00%	384433 เ	KB	14238 KB/se	ec .	00:00:27	0 Errors											

(8) Check if "CURRENT FILE" and "Initrd FILE" are the same. If they are, enter "y." "Kernel Upgrade

done" will show.

Verifying uploaded kernel ... initrd.img-3.16.35\_lite\_20200318152210: OK initrd.img-3.16.35\_lite\_20200318152210: OK\_\_\_\_\_ CURRENT FILE: 9c4f9435fd52d27266a969029701beb6 Please confirm change kernel? [y/n]y Initrd FILE: 9c4f9435fd52d27266a969029701beb6 Kernel Upgrade done. Please reboot to take effect after kernel upgraded. Reporter#



(9) Check N-Reporter status.

Reporter# system check

After executing system check on 6.1.081 or later versions, if a message as the following picture shows, please contact N-Partner TAC.

(10) Reboot the system.

Reporter# reboot

Reporter# reboot System prepare to reboot. Please wait a sceond.....OK.

(11) After rebooting, view the current firmware version.

```
Reporter# show version
Reporter# show version
Software version : 6.1.055 (20200326-1520)
NP Kernel version : 20200318152210
Serial number : NP-RPT-V-TW-AORNUKIZ
```



# **5.Activate N-Probe**

## 5.1 N-Probe

Connect to N-Reporter/N-Cloud CLI with SSH tools, like Xshell, SecureCRT or Putty, and log in. The

dafault account/password is npartner/npartner.

(1) View configuration file.

(2) Enter cofiguring mode.

Reporter# configure terminal

(3) Set N-Probe "on."

Reporter(config)# probe on

(4) Export Flow to the receiving IP and port of N-Reporter. Reporter(config)# flow-export 192.168.2.77 9001

Please enter N-Reporter IP address as the red part above.

- (5) Set Flow sampling rate; here, the system gets one sample for each packet.Reporter(config)# flow-sampling 1
- (6) Activate packet sniffering of IPv6 Flow traffic.Reporter(config)# flow-ipv6 on

(7) Set the number of N-Probe sniffering interface; here, it's 1.Reporter(config)# probe interface 1



(8) Exit configuring mode.

Reporter(config)# exit

```
Reporter# configure terminal
Reporter(config)# probe on
Probe is ON
Reporter(config)# flow-export 192.168.2.77 9001
Reporter(config)# flow-sampling 1
Reporter(config)# flow-ipv6 on
Reporter(config)# probe interface 1
Reporter(config)# exit
```

(9) View the current configuration.

Reporter# show configure

## 5.2 VMware ESXi Network

## 5.2.1 vSphere Client

(1) Log in VMware ESXi.

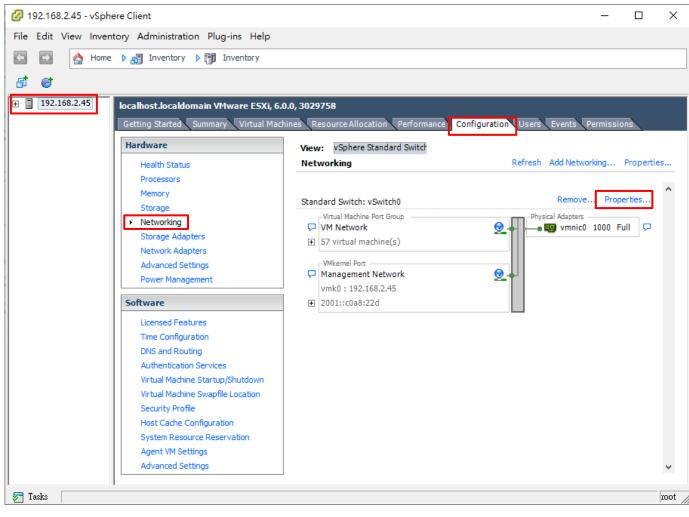
Open "VMware vSphere Client," enter VMware IP address, user name and password, and click "Login."

🕢 VMware vSphere Client	* ×
vmware <sup>.</sup> VMware vSphere <sup></sup> Client	
available only through vSphere Client will con feature set as vSpher To directly manage a single	ntroduced in vSphere 5.5 and beyond are in the vSphere Web Client. The traditional intinue to operate, supporting the same re 5.0. thost, enter the IP address or host name. enter the IP address or name of a
IP address / Name: User name: Password:	192. 168. 2. 45       root       ********       Use Windows session credentials       Login     Close



(2) Click the virtual machine.

#### Click "VMware ESXi host," "Configuration," "Networking," and "vSwitch: 'Properties'."





#### (3) Edit network settings.

ts Network Adapters		Port Group Properties			
Configuration	Summary	Network Label:	VM Network		
vSwitch	120 Ports				
VM Network	Virtual Machine	VLAN ID:	None (0)		
🧕 Management Net	vMotion and IP	Effective Policies			1
		Security			
		Promiscuous Mode:	Accept		
		MAC Address Changes:	Accept		
		Forged Transmits:	Accept		
		Traffic Shaping			
		Average Bandwidth:			
		Peak Bandwidth:			
		Burst Size:			
		Failover and Load Bala	incing		
		Load Balancing:	Port ID		
		Network Failure Detection	n: Link status only		
		Notify Switches:	Yes		
		Failback:	Yes		
		Active Adapters:	vmnic0		
		Standby Adapters:	None		
Add	Edit Remove	Unused Adapters:	None		

#### Select "VM Network" and click "Edit."



(4) Activate Promiscuous Mode.

Go to "Security," select "Promiscuous Mode:" and select "Accept." Click "OK."

🕗 VM Network Properties			×
General Security Traffic Shap	ing NIC Teaming		
Policy Exceptions			[
Promiscuous Mode:	Accept	-	
MAC Address Changes:	Accept		
Forged Transmits:	Accept		
		ОК	Cancel



### 5.2.2 vSphere Web Client

(1) Log in VMware ESXi.

Open a browser, go to https://<//Wware IP>, and enter account/password. Click "Log in."

🥜 Log in - VMw	rare ESXi 🗙 🕂		- 🗆 X
← → ♂ ଢ	🛈 🔒 https://192.168.2.42/ui/#/login	⊚ ☆	± II\ ⊡ ≡
vm	ware®		
User name	root		
Password	•••••	<b>vm</b> ware	e° ESXi <sup>™</sup>
	Log in		
ổ Open the VMware H	ost Client documentation		

(2) Edit network settings.

Click "Networking," "Port groups," "VM Network" and "Edit settings."

nware ESXi"		ESXi05 - Networking						
Navigator								
Host Manage		Port groups Virtual switches	Physical NICs	VMkernel NICs	TCP/IP stacks	Firewall rules		
Monitor		👲 Add port group 🥖 Edit settings	C Refresh 🛛 🐇	Actions				Q Search
🚰 Virtual Machines	9	Name	~ Active ports ~	VLAN ID	Туре	~	vSwitch	~ VMs
🕶 🛅 N-Reporter		Q TAC Network	0	180	Standard port group		wSwitch0	2
Monitor		🧕 VM Network	1	0	Standard port group		wSwitch0	N/A
More VMs		Private Network	0	0	Standard port group		PrivateVSwitch	9
Storage	2							3 items
Networking								



(3) Activate Promiscuous Mode.

Unfold "Security," select "Promiscuous Mode" and select "Accept." Click "Save."

🥖 Edit port group - VM Network	
Name	VM Network
VLAN ID	0
Virtual switch	vSwitch0 ~
✓ Security	
Promiscuous mode	Accept O Reject O Inherit from vSwitch
MAC address changes	○ Accept ○ Reject ● Inherit from vSwitch
Forged transmits	○ Accept ○ Reject ● Inherit from vSwitch
► NIC teaming	Click to expand
<ul> <li>Traffic shaping</li> </ul>	Click to expand
	Save Cancel



# 6. Troubleshooting

# 6.1 End of OVA File Reached While Looking

When deploying OVA on ESXi, if there is an error message as follows, users can apply methods in

this chapter to deploy OVA.

	Failed to Deploy
8	Unable to access file: lk. End of OVA file reached while looking for:disk1.vmdk Close

## 6.1.1 Use ESXi Web Client to Deploy OVA

Please refer to chapter 3.2 vSphere Web Client.



### 6.1.2 Use VMware OVF Tool to Deploy OVA

(1) Go to https://code.vmware.com/web/tool/4.3.0/ovf.

Download "VMware Open Virtualization Format Tool (ovftool)"; here, it's ovftool - 4.3.0 Patch

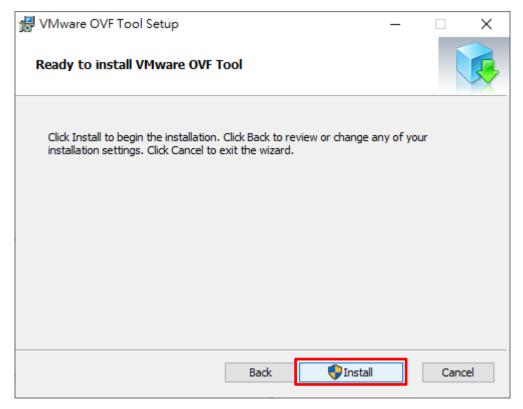


#### Downloads

Name	Version Size	
Open Virtualization Format Tool (ovftool)	4.3.0	Download
Open Virtualization Format Tool (ovftool)	4.3.0 U1	Download
Open Virtualization Format Tool (ovftool)	4.3.0 U2	Download
Open Virtualization Format Tool (ovftool)	4.3.0 U3	Download
Open Virtualization Format Tool (ovftool) - 4.3.0 Patch 1	4.3.0 P01	Download

#### (2) Install OVF Tool.

Click "VMware-ovftool-4.3.0-14746126-win.x86\_64.msi" and follow the steps to install.

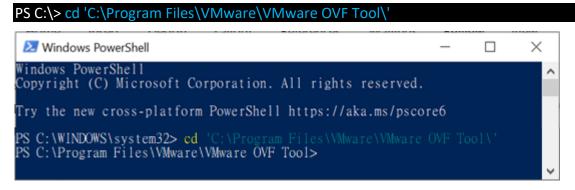




(3) Open "Windows PowerShell."



(4) Go to VMware OVF Tool folder.



(5) Enter N-Reporter OVA commands with OVF Tool. Parameter: --name is the name of the VM, --

diskMode is the disk format, and --datastore is the name of the datastore.

C:\> .\ovftool.exeacceptAllEulasnoSSLVerifyname=N-ReporterdiskMode=thick tastore=datastore1net D:\N-Cloud6.0_Reporter_500G_v6.1.051_20191226.ova //root@192.168.2.46/		
//root@192.168.2.46/ Enter VMware password Username: root Password: ********		
35 C. Wrognas Files/Waare/Witare OF Tools - Confront every - and All fairer - and All fa		2
INGETABLE : FOOD PARAMENCE:		
- No mailfert untry fond for: "N-Cloud) 0.Reporter, 500-dit41.vmd/. - No mailfert entry fond for: "N-Cloud) 0.Reporter, 500-dit42.vmd/. Completed successfully PS-C-Drogram Files/Wheney/Wheney 00/ Tool>		

Enter N-Reporter OVA path and name as follows.

D:\N-Cloud6.0 Reporter 500G v6.1.051 20191226.ova

Enter VMware account and IP address as follows.

vi://root@192.168.2.46/



(6) Log in VMware ESXi, and there will be N-Reporter VM deployed with OVF Tool.

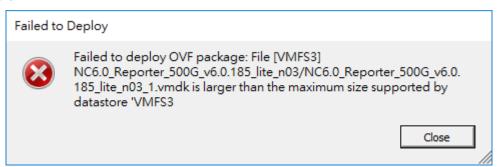
🥐 localhost.localdomain - VN	:	×
$ullet ightarrow$ $egin{array}{c} ullet$	0 🔒 https://192.168.2.46/ui/#/host/vms … 🖂 🏠 🖳 🚳	≡
<b>vm</b> ware <sup>®</sup> ESXi <sup>™</sup>	root@192.168.2.46      Help	•
Navigator	🔂 localhost.localdomain - Virtual Machines	
✓ ☐ Host Manage Monitor	😭 Create / Register VM   📑 Console   🕨 Power on 🔳 Power off 🔢 Suspend   🧲 Refresh   🏠 Actions	^
🚰 Virtual Machines 🛛 🕄	Virtual machine 🔺 🗸 Vistus 🗸 Used space 🗸 Guest OS 🗸 Host name 🗸 Host C V Host	
> 🗄 Storage	🗹 🔂 N-Reporter 📀 Normal 504 GB Debian GNU/Li Unknown 0 MHz 0 MB ^	~
Q     Networking	Recent tasks	



## **6.2 Larger than the Maximum Size Supported by Datastore**

https://docs.vmware.com/en/VMware-vSphere/5.5/com.vmware.vsphere.storage.doc/GUID-D01AFDA9-B04D-4910-804B-0A1E73DA6BE4.html

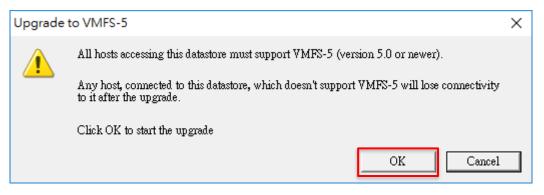
(1) The size exceeds the maximum amount of VMFS3.



(2) Go to "Configuration" and click "Storage" and "Upgrade to VMFS-5...."

Hardware	View: Datastor	es Devices					
Health Status	Datastores					Refresh Delete	Add Storage Rescan
Processors	Identification 🛆	Device	Drive Type	Capacity	Free Type	Last Update	Hardware Acceleratio
Memory	datastore1	Local ATA Disk (t10.ATAST3	Non-SSD	2.72 TB	2.72 TB VMFS5	2018/10/23 下午 1	0:47 Unknown
Storage	datastore2	Local ATA Disk (t10.ATAST3	Non-SSD	2.00 TB	2.00 TE VMFS3	2018/10/23 下午 1	0:47 Not supported
Networking							
Storage Adapters							
Network Adapters							
Advanced Settings							
Power Management							
oftware	Datastore Detai	s				Upgrade	e to VMFS-5 Properti
	the second se	fs/volumes/5bcf3449-e08af99a-607e-	0cc47a90938d				
Licensed Features Time Configuration DNS and Routing Authentication Services Virtual Machine Startup/Shutdown	Location: /vn Hardware Accele			583.00 MB	Used Free		
Time Configuration DNS and Routing Authentication Services	Hardware Accele						
Time Configuration DNS and Routing Authentication Services Virtual Machine Startup/Shutdown		ration: Notsupported Properties	Extents	2.00 TB	Free		
Time Configuration DNS and Routing Authentication Services Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location	Hardware Accele	ration: Notsupported Properties Volume Label: datastori	Extents 2 Local ATA		Free		
Time Configuration DNS and Routing Authentication Services Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location Security Profile	Hardware Accele Path Selection Fixed (VMware)	ration: Notsupported Properties Volume Label: datastor Datastore Name: datastor	Extents 2 Local ATA	2.00 TB	Free		
Time Configuration DNS and Routing Authentication Services Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location Security Profile Host Cache Configuration	Hardware Accele	ration: Notsupported Properties Volume Label: datastori	Extents 2 Local ATA 2 Total Form	2.00 TB	2.00 TB		

(3) Click "OK" to start upgrading.



#### (4) Click "Rescan All" to check.

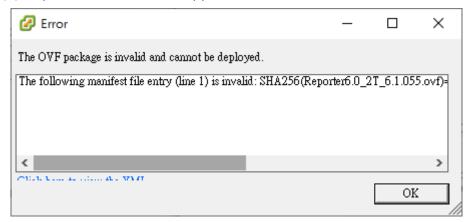
lardware	View: Datastores D	Devices					
Health Status	Datastores					Refresh Delete Ad	ld Storage Rescan
Processors	Identification 🛆 De	vice	Drive Type	Capacity	Free Type	Last Update	Hardware Acceleratio
Memory	🏮 datastore1 Lo	cal ATA Disk (t10.ATAST3	Non-SSD	2.72 TB	2.72 TB VMFS5	2018/10/23 下午 10:47	. Unknown
<ul> <li>Storage</li> </ul>	datastore2 Lo	cal ATA Disk (t10.ATAST3	Non-SSD	2.00 TB	1.99 T8 VMFS5	2018/10/23 下午 10:50	. Not supported
Networking							
Storage Adapters							
Network Adapters							
Advanced Settings							
Power Management							
oftware	Datastore Details datastore2			2.00 TB Car	pacity		Propert
Licensed Features		olumes/5bcf3449-e08af99a-607e-	0cc47a90938d	_			
Time Configuration	Location: /vmfs/v Hardware Acceleratio		0cc47a90938d		Used		
			0cc47a90938d	4.88 GB 📕 1.99 TB 🔲			
Time Configuration			0cc47a90938d				
Time Configuration DNS and Routing			0cc47a90938d				
Time Configuration DNS and Routing Authentication Services Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location	Hardware Acceleratio						
Time Configuration DNS and Routing Authentication Services Virtual Machine Startup/Shutdown		n: Notsupported Properties	Extents	1.99 TB	Free		
Time Configuration DNS and Routing Authentication Services Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location	Hardware Acceleratio	n: Notsupported Properties Volume Label: datastore	<b>Extents</b> 2 Local ATA D		Free	)	
Time Configuration DNS and Routing Authentication Services Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location Security Profile	Hardware Acceleratio	n: Notsupported Properties Volume Label: datastore Datastore Name: datastore	Extents 2 Local ATA D	1.99 TB	Free	)	
Time Configuration DNS and Routing Authentication Services Virtual Machine Startup/Shutdown Virtual Machine Swapfile Location Security Profile Host Cache Configuration	Hardware Acceleratio	n: Notsupported Properties Volume Label: datastore	Extents 2 Local ATA D 2 Total Forma	1.99 TB	2.00 TB		



## 6.3 The OVF Package is Invalid and Cannot be Deployed

https://kb.vmware.com/s/article/2151537

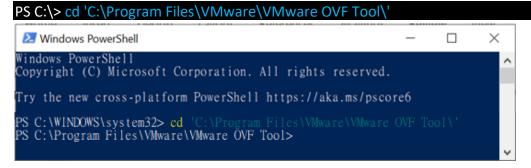
(1) vSphere Client doesn't support SHA256.



(2) Open "Windows PowerShell."



(3) Go to VMware OVF Tool folder.





#### (4) Set N-Reporter OVA from SHA256 to SHA1 with OVF Tool.

PS C:\> .\ovftool.exe --shaAlgorithm=SHA1 D:\Reporter6.0\_2T\_6.1.055.ova

Windows PowerShell

S C:\Program Files\VMware\VMware(VMware OVF Tool> .\ovftool.ex pening OVA source: D:\Reporter6.0\_2T\_6.1.055.ova he manifest validates pening OVA target: D:\Reporter6.0\_2T\_6.1.055.shal.ova riting OVA package: D:\Reporter6.0\_2T\_6.1.055.shal.ova ransfer Completed ompleted successfully S C:\Program Files\VMware\VMware OVF Tool>

Enter N-Reporter OVA path and N-Reporter OVA destination path as follows.

D:\Reporter6.0\_2T\_6.1.055.ova D:\Reporter6.0\_2T\_6.1.055-sha1.ova



 $\leq$ 

## 6.4 Workstation Device/Credential Guard not Compatible

https://kb.vmware.com/s/article/2146361

(1) It happens because Device Guard or Credential Guard is not compatible with VMware

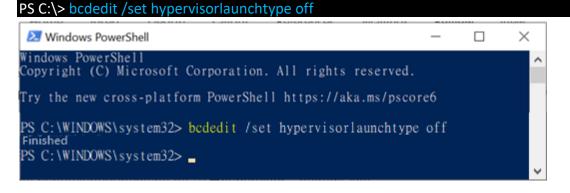
Workstation.



(2) Open "Windows PowerShell."



(3) Set Hyper-V off.



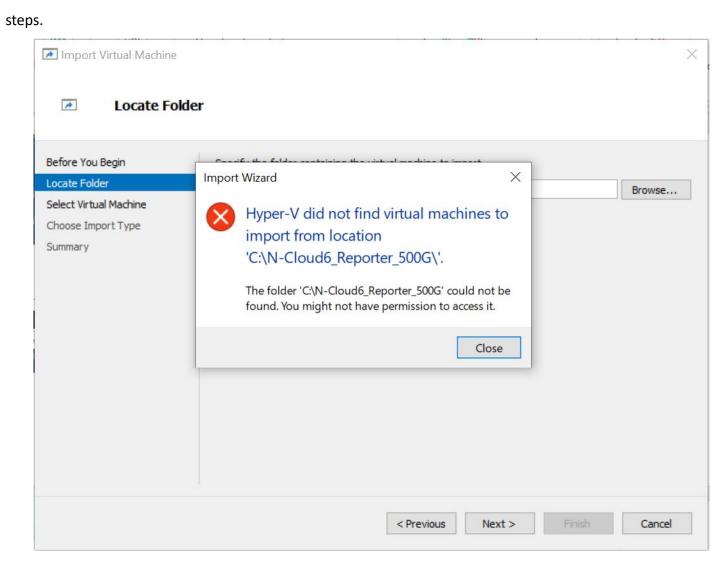
(4) Reboot.

PS C:\> Restart-Computer		
27 Windows PowerShell	-	×
PS C:\WINDOWS\system32> Restart-Compute	r	^
		× 1



## 6.5 Hyper-V no Virtual Machine Files Found

If no virtual machine files are found while importing N-Reporter VM in Hyper-V, please follow the





### 6.5.1 New Virtual Machine

(1) Right-click on Hyper-V server and click "New" and "Virtual Machine...."

Hyper-V Manager						- 🗆	×
File Action View	Help						
🗢 🄿 🔁 📰 🛽							
Hyper-V Manager	Virtual Machines				A	ctions	
HYPER-V	Ouick Create	State CPU Usage	Assigned Memory	Uptime St	н	IYPER-V	-
	New >	Virtual Machine		optime		Quick Create	
	Import Virtual Machine	Hard Disk	on this server.			New	•
		Floppy Disk			Ľ.	Import Virtual Machine	
	Hyper-V Settings Virtual Switch Manager				<b>2</b>	Hyper-V Settings	
	Virtual SAN Manager				ĭ ∎H	Virtual Switch Manager	
	Edit Disk			>		Virtual SAN Manager	
	Inspect Disk			۲		🕻 Edit Disk	
		No virtual machine sel	ected		4	Inspect Disk	
	Stop Service Remove Server	NO VITUAL MACHINE SEL	ecteu.			Stop Service	
	Refresh				×	Remove Server	
					U	Refresh	
	View					View	►
	Help				?	Help	
	Details						
	Details						
		No item selected.					
Opens a cascading men	u specifying objects which can be crea	ted on this server.					



#### (2) Click "Next."

New Virtual Machine Wizard	1	×
📒 🛛 Before You E	segin	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	This wizard helps you create a virtual machine. You can use virtual machines in place of physical computers for a variety of uses. You can use this wizard to configure the virtual machine now, and you can change the configuration later using Hyper-V Manager. To create a virtual machine, do one of the following:      Click Finish to create a virtual machine that is configured with default values.     Click Next to create a virtual machine with a custom configuration.  Do not show this page again	
	< Previous Next > Finish Cancel	



(3) Enter the name of the virtual machine and select a location for it. Click "Next."

New Virtual Machine Wizar		ation	×
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	The name identify th Name: You can cr folder, the ☑ Store Location: If you	name and location for this virtual machine. is displayed in Hyper-V Manager. We recommend that you use a name that helps you easil is virtual machine, such as the name of the guest operating system or workload. N-Reporter eate a folder or use an existing folder to store the virtual machine. If you don't select a evirtual machine is stored in the default folder configured for this server. the virtual machine in a different location C:\Hyper-V\VMs u plan to take checkpoints of this virtual machine, select a location that has enough free c. Checkpoints include virtual machine data and may require a large amount of space.	
		< Previous Next > Finish Cancel	



#### (4) Click "Generation 1" and click "Next."

New Virtual Machine Wizar	d ×
📃 Specify Gene	eration
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	<ul> <li>Choose the generation of this virtual machine.</li> <li>● Generation 1 This virtual machine generation supports 32-bit and 64-bit guest operating systems and provides virtual hardware which has been available in all previous versions of Hyper-V. ● Generation 2 This virtual machine generation provides support for newer virtualization features, has UEFI-based firmware, and requires a supported 64-bit guest operating system. ● Once a virtual machine has been created, you cannot change its generation. More about virtual machine generation support</li></ul>
	< Previous Next > Finish Cancel



(5) Enter 32768 MB in "Startup memory" and click "Next."

New Virtual Machine Wiza		×
Assign Mem	ory	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	<ul> <li>Specify the amount of memory to allocate to this virtual machine. You can specify an amount from 32 MB through 251658240 MB. To improve performance, specify more than the minimum amount recommended for the operating system.</li> <li>Startup memory: 32768 MB</li> <li>Use Dynamic Memory for this virtual machine.</li> <li>When you decide how much memory to assign to a virtual machine, consider how you intend to use the virtual machine and the operating system that it will run.</li> </ul>	
	< Previous Next > Finish Cancel	]



#### (6) Set to connect with "Viutual Switch" and click "Next."

New Virtual Machine Wizard	1	×
🖳 Configure Ne	etworking	
Before You Begin Specify Name and Location Specify Generation Assign Memory Configure Networking Connect Virtual Hard Disk Installation Options Summary	Each new virtual machine includes a network adapter. You can configure the network adapter to virtual switch, or it can remain disconnected.	to use a
	< Previous Next > Finish Ca	ancel



(7) Click "Use an existing virtual hard disk" and click "Browse..." to select N-Reporter\_DOM.vhdx.

Click "Next."

New Virtual Machine Wiza	rtual Hard Disk	×
Before You Begin Specify Name and Location Specify Generation Assign Memory	A virtual machine requires storage so that you can install an operating system. You can specify the storage now or configure it later by modifying the virtual machine's properties.  Create a virtual hard disk Use this option to create a VHDX dynamically expanding virtual hard disk.	
Configure Networking Connect Virtual Hard Disk Summary	Name:       N-Reporter.vhdx         Location:       C:\Hyper-V\VMs\N-Reporter\Virtual Hard Disks\       Browse         Size:       127       GB (Maximum: 64 TB)	I
	Use an existing virtual hard disk     Use this option to attach an existing virtual hard disk, either VHD or VHDX format.     Location: .103.hpv\Virtual Hard Disks\Hyper-V_N-Cloud6_Reporter_DOM.vhdx Browse	
	<ul> <li>Attach a virtual hard disk later</li> <li>Use this option to skip this step now and attach an existing virtual hard disk later.</li> </ul>	
	< Previous Next > Finish Cancel	



#### (8) Click "Finish."

🖳 New Virtual Machine Wizar	d ×
Completing	the New Virtual Machine Wizard
Before You Begin Specify Name and Location Specify Generation	You have successfully completed the New Virtual Machine Wizard. You are about to create the following virtual machine. Description:
Assign Memory	Name: N-Reporter Generation: Generation 1
Configure Networking Connect Virtual Hard Disk	Memory: 32768 MB
Summary	Network:         Virtual Switch           Hard Disk:         C:\Hyper-V\VMs\Downloads\N-Cloud6_Reporter_500G.hpv\N-Cloud6_Reporter_500G_6.
	To create the virtual machine and close the wizard, click Finish.
	< Previous Next > Finish Cancel



### 6.5.2 Add Hard Drive

#### (1) Click "Settings .... "

Hyper-V Manager							- 🗆 X
File Action View Help							
🗢 🏟 🞽 🖬 🚺 🖬							
Hyper-V Manager	Virtual Machines	Actions					
HYPER-V	Name	State	CPU Usage	Assigned Memory	Uptime	St	HYPER-V 🔺 ^
	N-Reporter	Off	CPO Osage	Assigned Memory	optime	50	🖳 Quick Create
							New
							🐴 Import Virtual Machi
							Hyper-V Settings
							🚰 Virtual Switch Mana
	<					>	🔒 Virtual SAN Manager
	Checkpoints						🛃 Edit Disk
							Inspect Disk
The selected virtual machine has no checkpoints.							Stop Service
							× Remove Server
							View 🕨
							Help
	N-Reporter						N-Reporter
	in neporter						🕂 Connect
			5/17/2021 12:00:11 I > 0	PM Clustered:	No		🔁 Settings
		ionfiguration Version:					🕘 Start
			Vone				🄁 Checkpoint
							Move
		N7 . 11					Export
	Summary Memory	Networking					🖳 Rename 🗸
LAPTOP-200PH2D0: 1 virtual r	machine selected.						



(2) Click "IDE Controller," select "Hard Drive" and click "Add."

<b>1</b>	Settings for N-Reporter on Hyper-V			_		×
N-	Reporter	~	⊴ ⊨   ð			
*	Hardware Add Hardware BIOS Boot from CD Security Key Storage Drive disabled Memory 32768 MB Processor 1 Virtual processor I Virtual processor I Virtual processor I Virtual processor I Virtual processor IDE Controller 0 Hard Drive Hyper-V N-Cloud6_Report IDE Controller 1 IDE Controller 1 IDE Controller SCSI Controller None SCSI Controller COM 1 None COM 1 None COM 2 None Diskette Drive None None Name N-Reporter None N-Reporter N-Reporter N-Reporter N-Reporter Integration Services Some services offered Checkpoints Standard		IDE Controller         You can add hard drives and CD/DVD drives to your IDE controller.         Select the type of drive you want to attach to the controller and their         Hard Drive         DVD Drive         You can configure a hard drive to use a virtual hard disk or a physical you attach the drive to the controller.		Add	
	Smart Paging File Location	~	OK Cancel		Apply	



1	3	) Click	"Browse"	and select	N-Reporter	_DISK.vhdx.
1	5		DIOWSE	and select	N-Neporter	

N-R	Reporter	⊴	
	Hardware	👝 Hard Drive	
	Add Hardware     BIOS     Boot from CD	You can change how this virtual hard disk is attached to operating system is installed on this disk, changing the at virtual machine from starting.	
	Security	Controller: Location:	
	Key Storage Drive disabled	IDE Controller 1 ~ 1 (in use)	
1	32768 MB	Media	
	Processor 1 Virtual processor	You can compact, convert, expand, merge, reconnect by editing the associated file. Specify the full path to t	t or shrink a virtual hard disk the file.
-	IDE Controller 0	O Virtual hard disk:	
	Hard Drive Hyper-V_N-Cloud6_Report	r_500G_6.1.103.hpv\Virtual Hard Disks\Hyper-V_N	v-Cloud6_Reporter_DISK
	IDE Controller 1	New Edit	Inspect Browse
	DVD Drive     None	Physical hard disk:	browse
	Hard Drive Hyper-V_N-Cloud6_Rep	~	
	SCSI Controller	<ol> <li>If the physical hard disk you want to use is n</li> </ol>	
+	Network Adapter Default Switch	disk is offline. Use Disk Management on the p physical hard disks.	hysical computer to manage
1	COM 1 None	To remove the virtual hard disk, click Remove. This disco delete the associated file.	nnects the disk but does not
I	COM 2		Remove
Į	Diskette Drive		renove
	Management		
-	1 Name		
1	N-Reporter		
[	Integration Services Some services offered		
	Checkpoints		



(4) Click "OK."

porter ardware	× •		0				
		P	0				
	<u>^</u>	Ha	ard Drive				
Add Hardware				ويتراويك المروحا المرطوي	والمرجعة والمرجعة والمرجعة		· · · ·
BIOS Boot from CD					attached to the virtual m anging the attachment m		
Security			machine from start	ing.			
Key Storage Drive disabled		Contro			Location:		
Memory		IDE Co	ontroller 1	~	1 (in use)		
		Media	а				
						virtual h	ard disk
			_	ed nie, specify die	fuil paul to the file.		
		•	Virtual hard disk:				
Hyper-V_N-Cloud6_Report			r_500G_6.1.103.h	ov\Virtual Hard Dis	ks\Hyper-V_N-Cloud6_Re	porter_D	ISK\$00G.
IDE Controller 1				New F	dit Inspect	Bro	wse
OVD Drive					Inspece	DIO	W3CIII
		01	Physical hard disk:				
Hard Drive Hyper-V_N-Cloud6_Rep				~			
SCSI Controller							
Network Adapter Default Switch					nent on the physical com	puter to	manage
COM 1			and the state of the	d diala diala Daman	- This discount of the s	tal. L	
None					e. This disconnects the d	JISK DUT O	ioes not
							Remove
							Remove
None							
anagement							
Name							
N-Reporter							
Integration Services							
	×						
	Memory 32768 MB Processor 1 Virtual processor IDE Controller 0 Hard Drive Hyper-V_N-Cloud6_Report IDE Controller 1 DVD Drive None Hard Drive Hyper-V_N-Cloud6_Rep SCSI Controller Network Adapter Default Switch COM 1 None COM 2 None Diskette Drive None None None None None	Memory 32768 MB Processor 1 Virtual processor 1 DE Controller 0 Hard Drive Hyper-V_N-Cloud6_Report 1DE Controller 1 DVD Drive None Hard Drive Hyper-V_N-Cloud6_Rep SCSI Controller Network Adapter Default Switch COM 1 None COM 2 None Diskette Drive None Diskette Drive None	Memory 32768 MB Processor 1 Virtual processor IDE Controller 0 Hard Drive Hyper-V_N-Cloud6_Report IDE Controller 1 DVD Drive None Hard Drive Hyper-V_N-Cloud6_Rep SCSI Controller Network Adapter Default Switch COM 1 None COM 2 None Diskette Drive None Diskette Drive Diskette Diskette Disket	Memory   32768 MB   Processor   1 Virtual processor   IDE Controller 0   Hard Drive   Hyper-V_N-Cloud6_Report   IDE Controller 1   DVD Drive   None   Hard Drive   Hyper-V_N-Cloud6_Rep   SCSI Controller   Network Adapter   Default Switch   COM 1   None   Diskette Drive   Name   N-Reporter   Integration Services   Some services offered	Memory   32768 MB   Processor   1 Virtual processor   IDE Controller 0   Hard Drive   Hyper-V_N-Cloud6_Report   IDE Controller 1   DVD Drive   None   BCSI Controller   Network Adapter   Default Switch   COM 1   None   Diskette Drive   Name   N-Reporter   Integration Services   Some services offered	Memory       32768 MB         Processor       1 (in use)         Media       You can compact, convert, expand, merge, reconnect or shrink a by editing the associated file. Specify the full path to the file.         IDE Controller 0       Hard Drive         Hyper-V_IN-Cloud6_Report       IDE Controller 1         IDE Controller 1       Virtual hard disk:         IDE Controller 1       New         Edit       Inspect         None       Physical hard disk:         ISCSI Controller       New         None       If the physical hard disk you want to use is not listed, ma disk is offline. Use Disk Management on the physical com physical hard disks.         None       To remove the virtual hard disk, click Remove. This disconnects the or delete the associated file.         None       None         Diskette Drive       None         Name       N-Reporter         Integration Services       Some services offered         Checkpoints       v	Memory       32768 MB         Processor       1 Virtual processor         1 Virtual processor       Media         You can compact, convert, expand, merge, reconnect or shrink a virtual here by editing the associated file. Specify the full path to the file.         IDE Controller 0       It and Drive         Hard Drive       Hyper-V_N-Cloud6_Report         IDE Controller 1       Image: Writual hard disk:         IDE Controller 1       New         Edit       Inspect         Browne       Physical hard disk:         Hard Drive       Hyper-V_N-Cloud6_Report         ISCSI Controller       New         Edit       Inspect         Browne       Edit         None       Physical hard disk:         IDE fourtoiler       Image:



