

Partner

Deploy N-Reporter Virtual Machine

V031

2022/10/04



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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 fails 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)

https://www.npartnertech.com/download/vm/Hyper-V/N-Cloud6_Reporter_500G.hpv.zip

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.

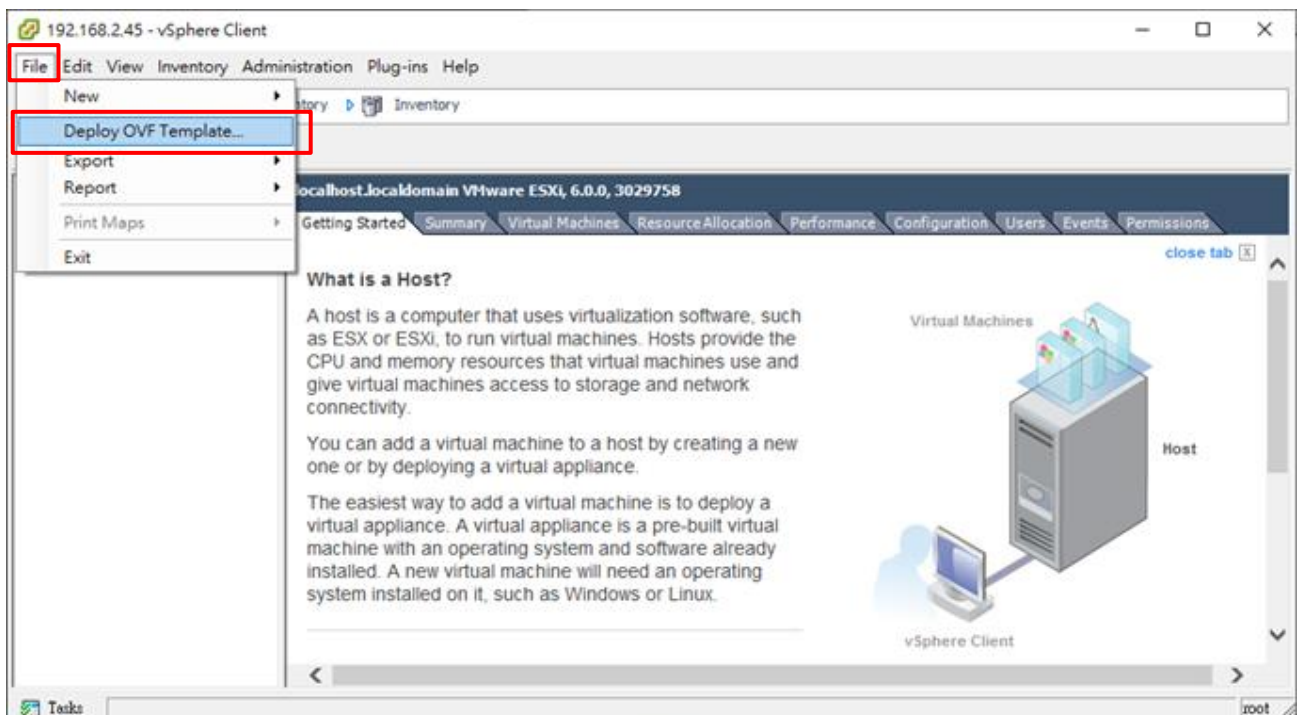
3. Intallation Process

3.1 vSphere Client

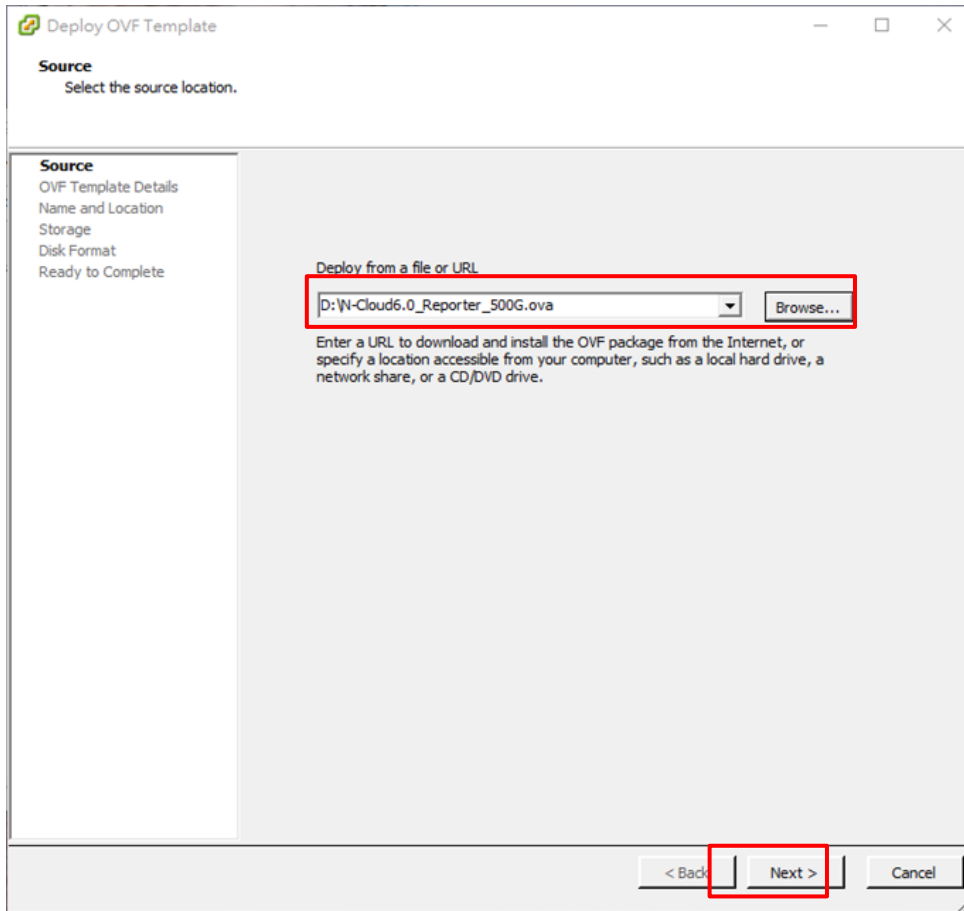
- (1) Open VMware vSphere Client, and enter VMware IP address, user name, and password. Click "Login."



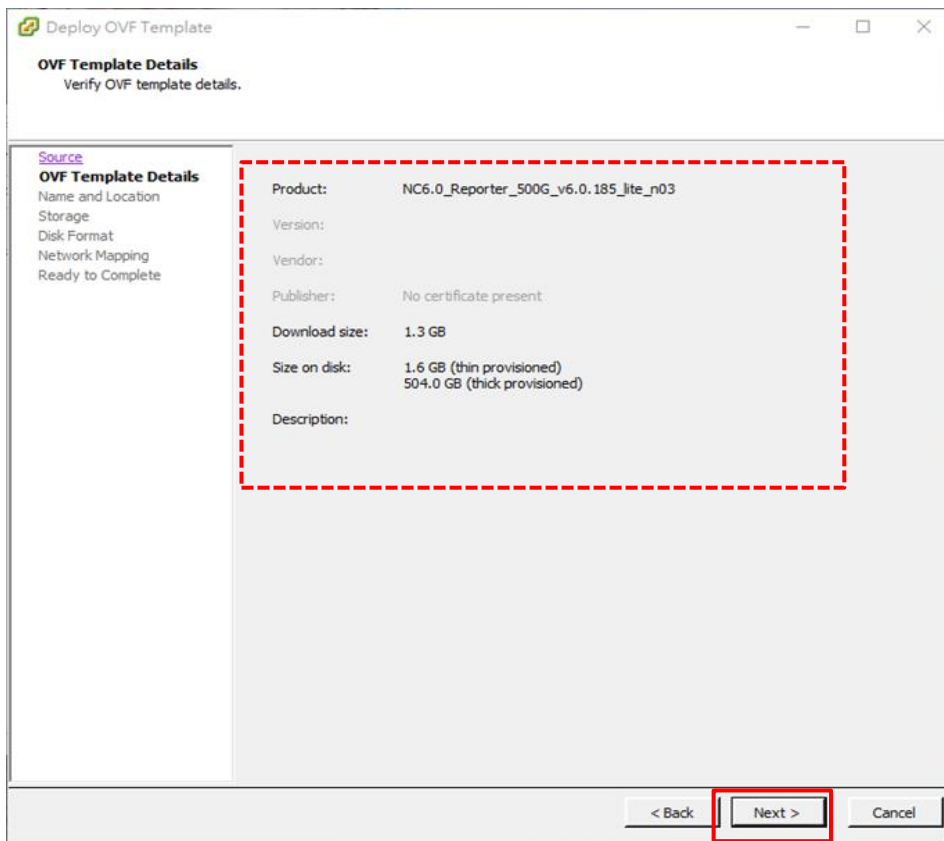
- (2) Click "File→ Deploy OVF Template..."



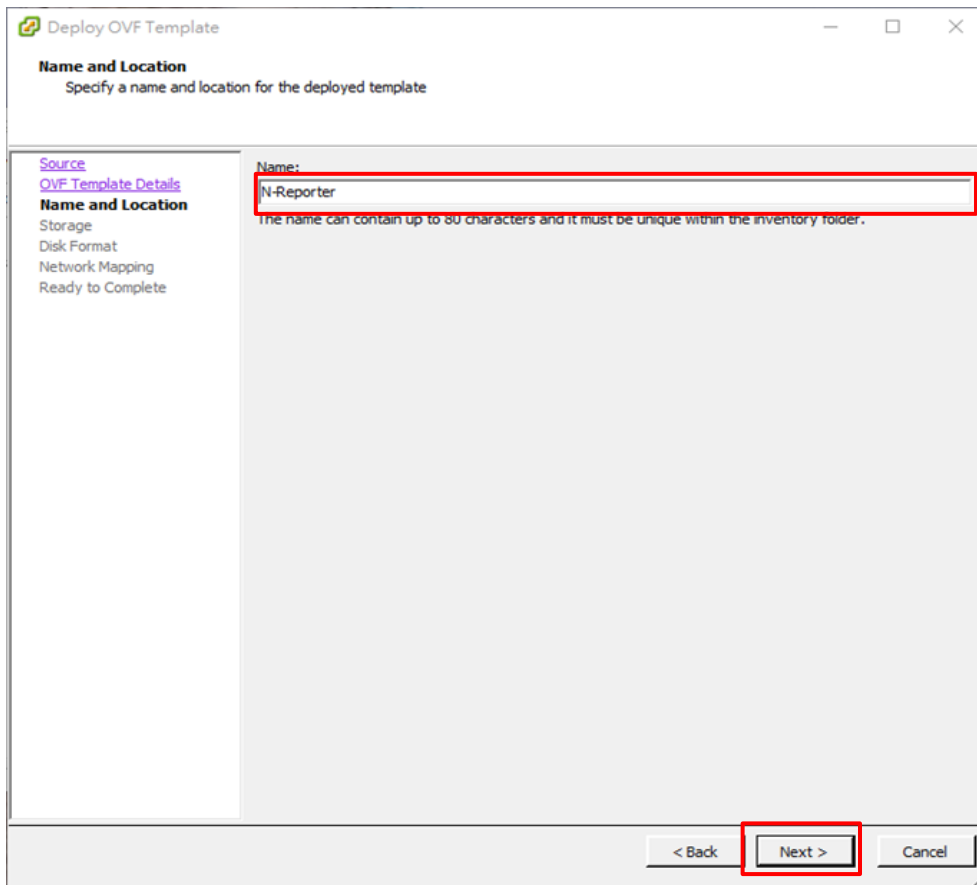
(3) Click “Browse...,” select the N-Reporter OVA file, and click “Next.”



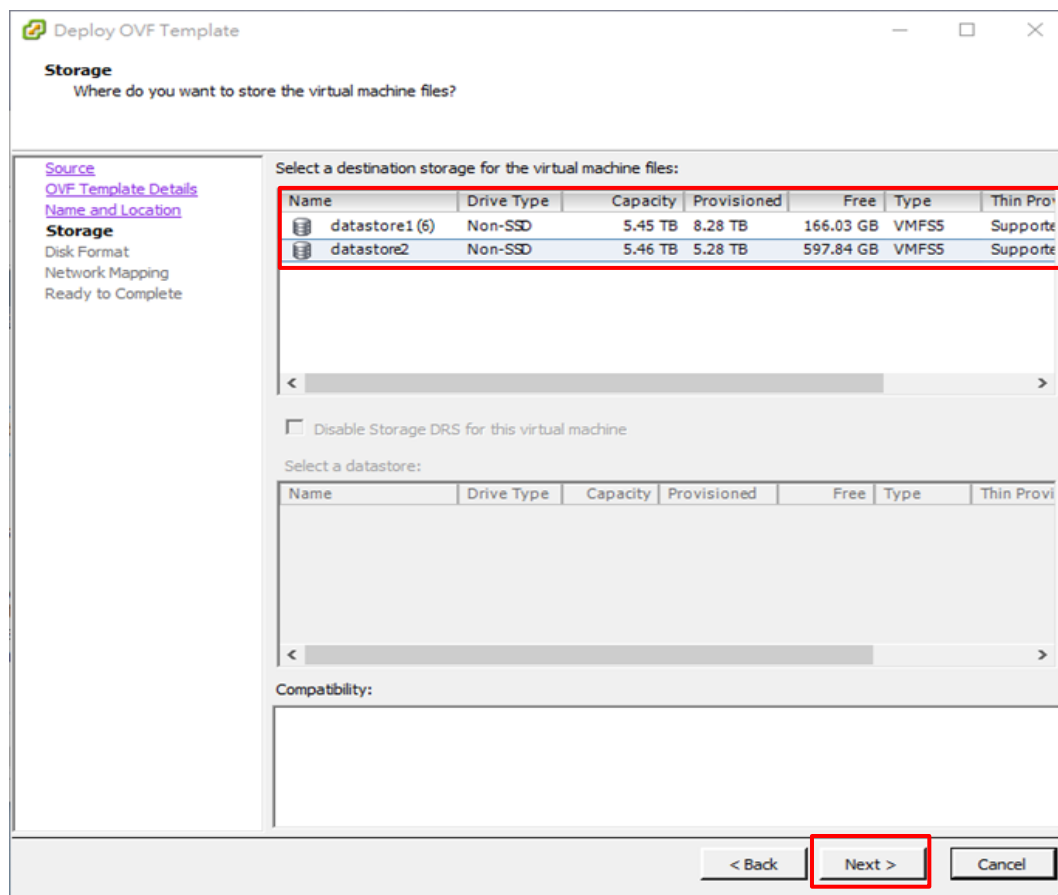
(4) Check the information and click “Next.”



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



(6) Select a destination storage and click “Next.”



(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)

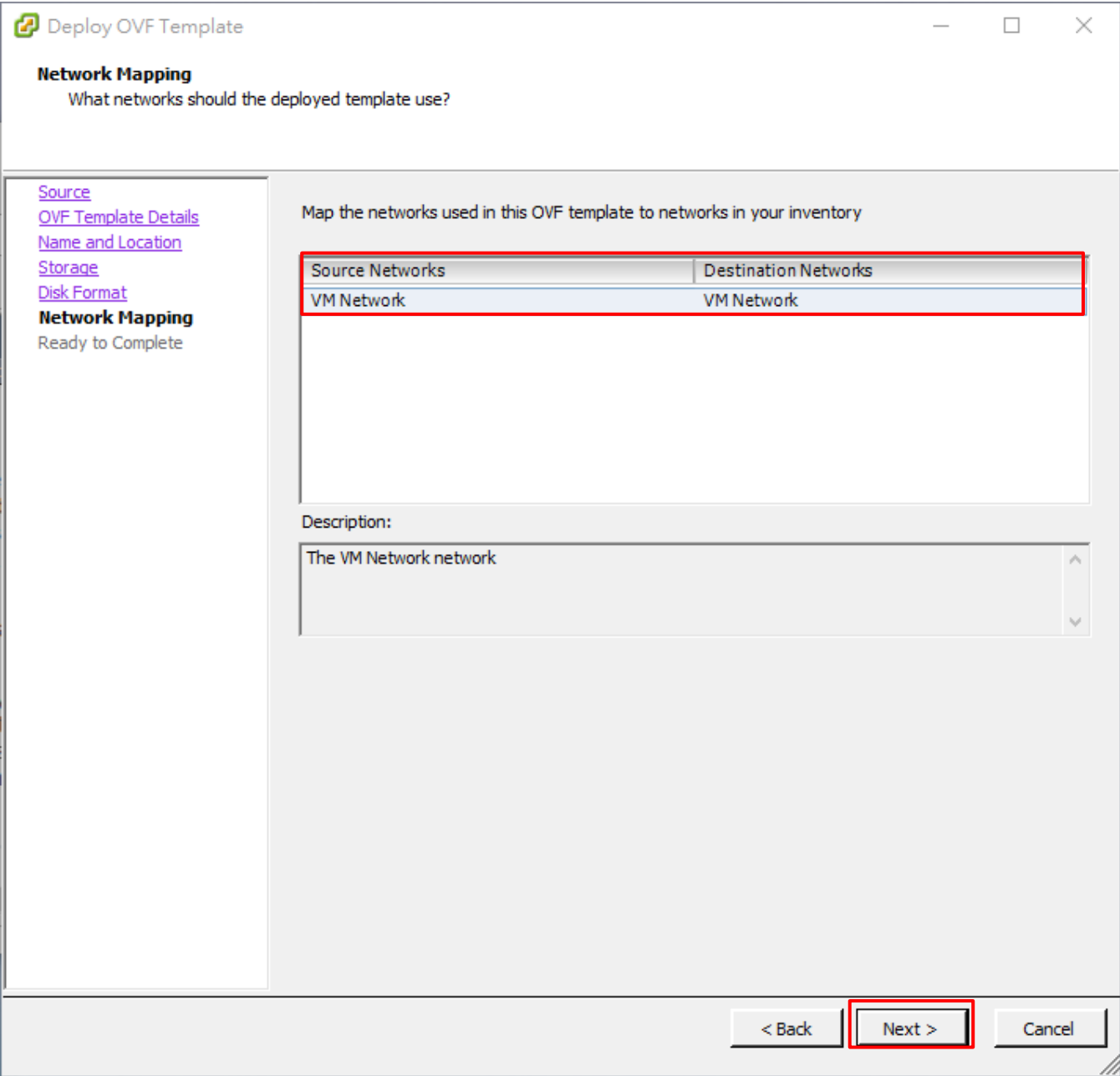
The screenshot shows the 'Deploy OVF Template' wizard window. The title bar reads 'Deploy OVF Template'. The main heading is 'Disk Format' with the sub-heading 'In which format do you want to store the virtual disks?'. On the left, there is a navigation pane with links: 'Source', 'OVF Template Details', 'Name and Location', 'Storage', 'Disk Format' (highlighted), 'Network Mapping', and 'Ready to Complete'. The main area contains the following fields and options:

- Datastore:** A text box containing 'datastore2'.
- Available space (GB):** A text box containing '597.8'.
- Format Selection:** Three radio button options:
 - Thick Provision Lazy Zeroed (highlighted with a red box)
 - Thick Provision Eager Zeroed
 - Thin Provision

At the bottom right, there are three buttons: '< Back', 'Next >' (highlighted with a red box), and 'Cancel'.

Note 3: Please do not select Thin Provision as format. When the datastore N-Reporter virtual machine 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."



- (9) Check the information, check “Power on after deployment” and click “Finish” to start virtual machine deploying.

Deploy OVF Template

Ready to Complete
Are these the options you want to use?

[Source](#)
[OVF Template Details](#)
[Name and Location](#)
[Storage](#)
[Disk Format](#)
[Network Mapping](#)
Ready to Complete

When you click Finish, the deployment task will be started.

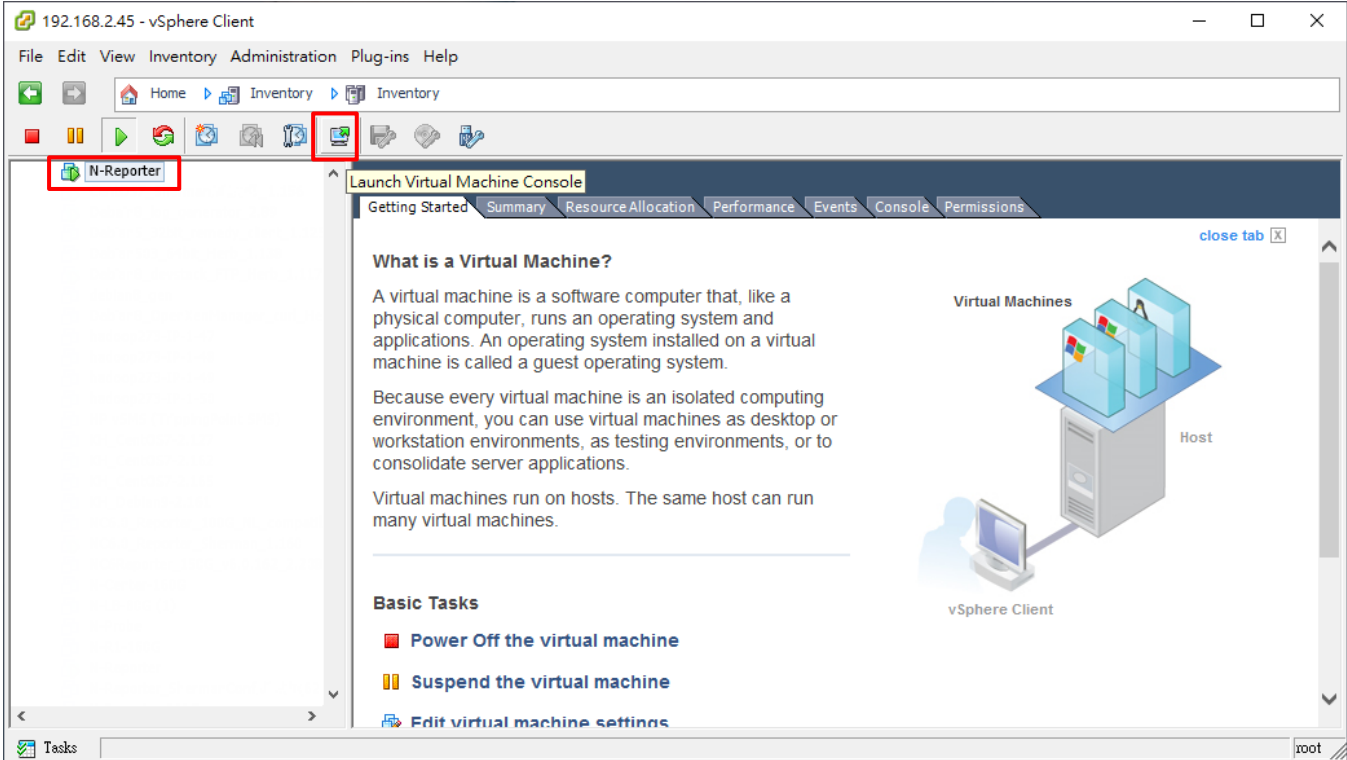
Deployment settings:

OVF file:	D:\N-Cloud6.0_Reporter_500G.ova
Download size:	1.3 GB
Size on disk:	504.0 GB
Name:	N-Reporter
Host/Cluster:	localhost
Datastore:	datastore2
Disk provisioning:	Thick Provision Lazy Zeroed
Network Mapping:	"VM Network" to "VM Network"

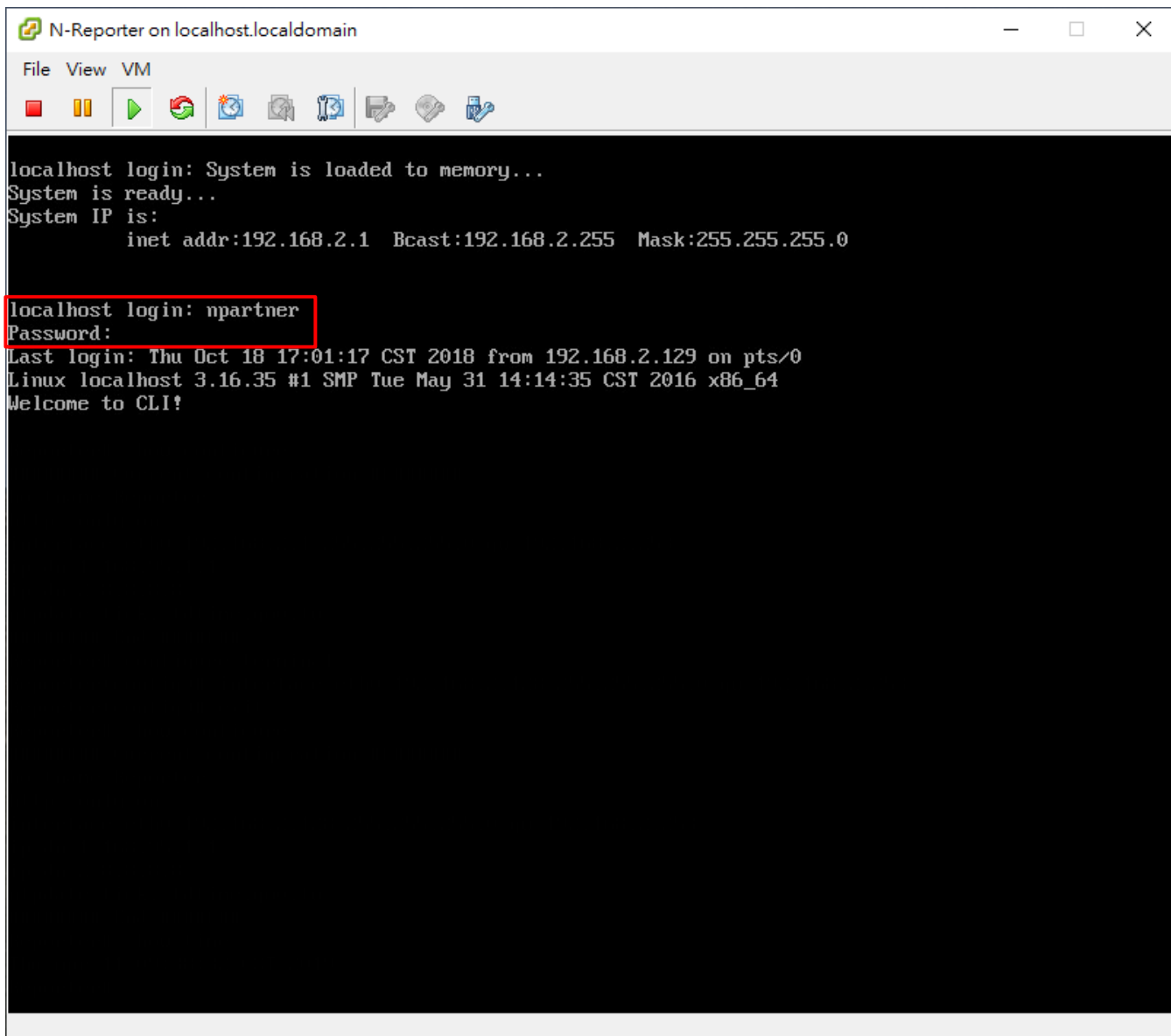
Power on after deployment

< Back **Finish** Cancel

(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.



```
N-Reporter on localhost.localdomain
File View VM
localhost login: System is loaded to memory...
System is ready...
System IP is:
    inet addr:192.168.2.1  Bcast:192.168.2.255  Mask:255.255.255.0
localhost login: npartner
Password:
Last login: Thu Oct 18 17:01:17 CST 2018 from 192.168.2.129 on pts/0
Linux localhost 3.16.35 #1 SMP Tue May 31 14:14:35 CST 2016 x86_64
Welcome to CLI!
```

(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

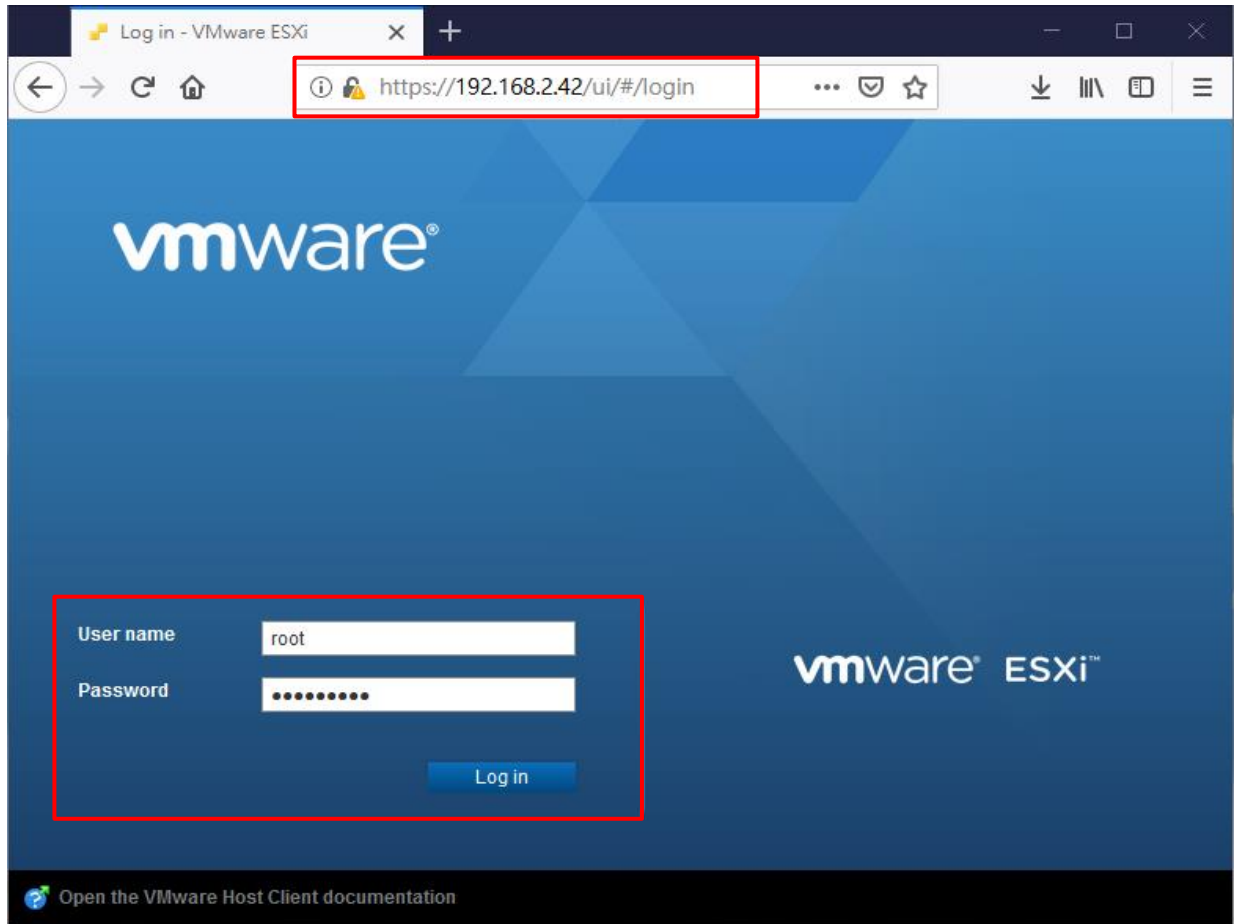
Reporter# configure terminal
Reporter(config)# interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253
Reporter(config)# exit
Reporter# show configure
##### Current configuration #####
hostname Reporter
https-only on
interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253
ip dns1 168.95.1.1
ip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

IP setting: interface [interface] [N-Reporter_IP] [subnet_mask] gw [gateway_IP]

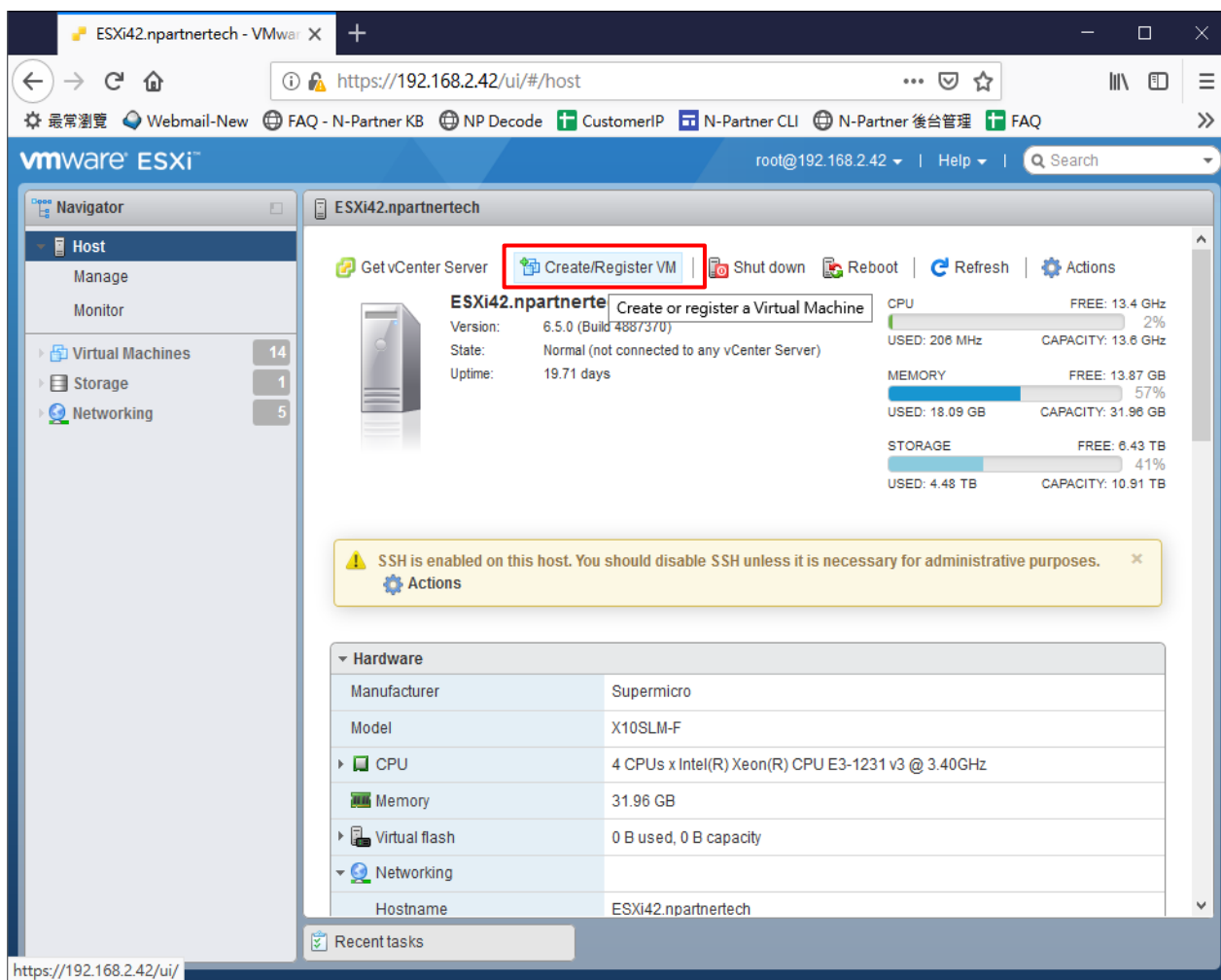
Please enter N-Reporter's IP address as the red part above.

3.2 vSphere Web Client

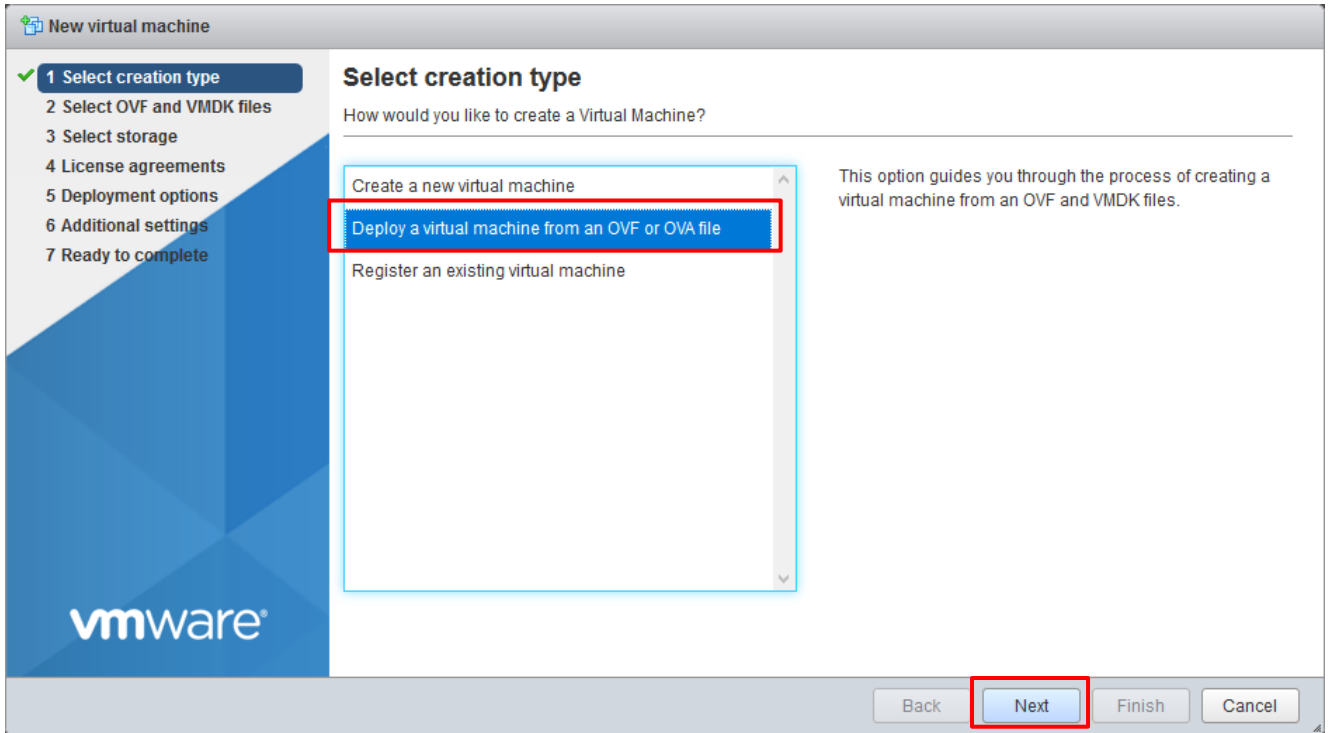
(1) Open a browser and enter https://<VMware IP>, user name, and password. Click “Login.”



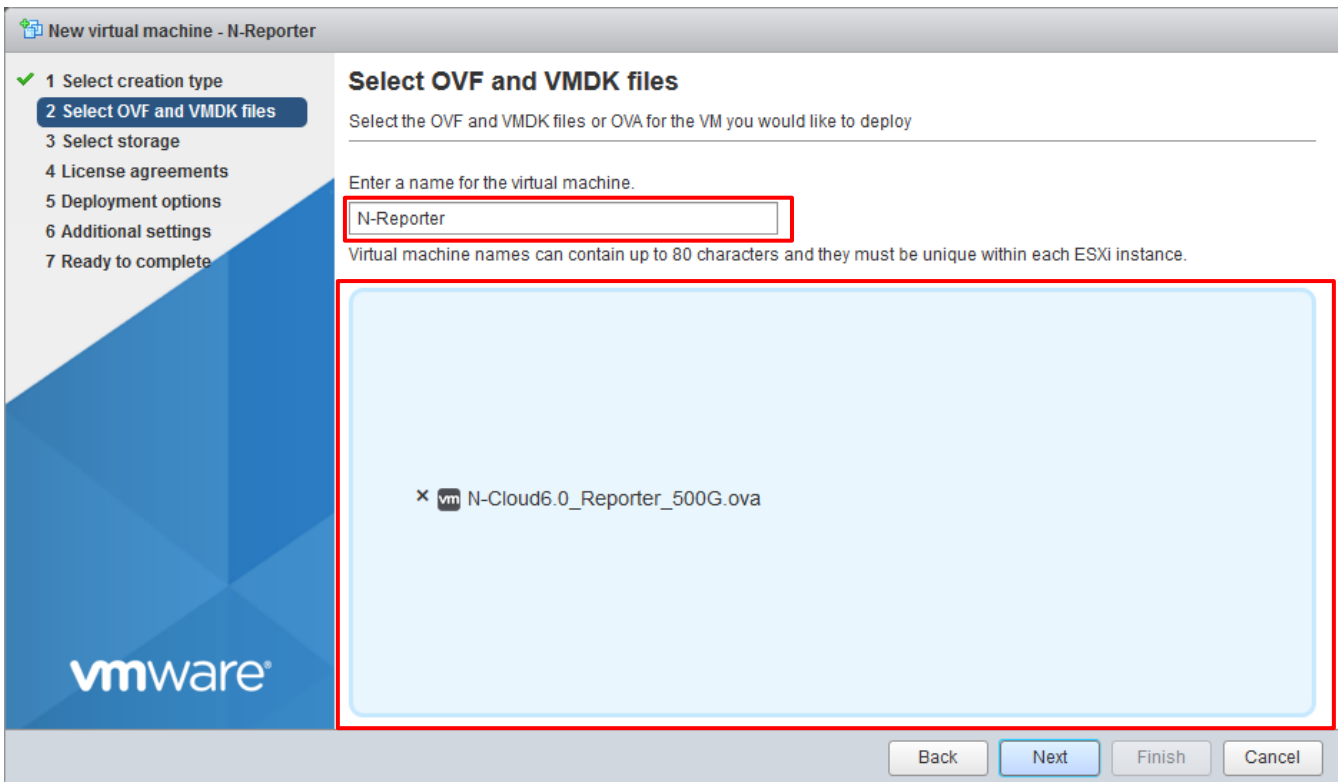
(2) Click "Create/Register VM."



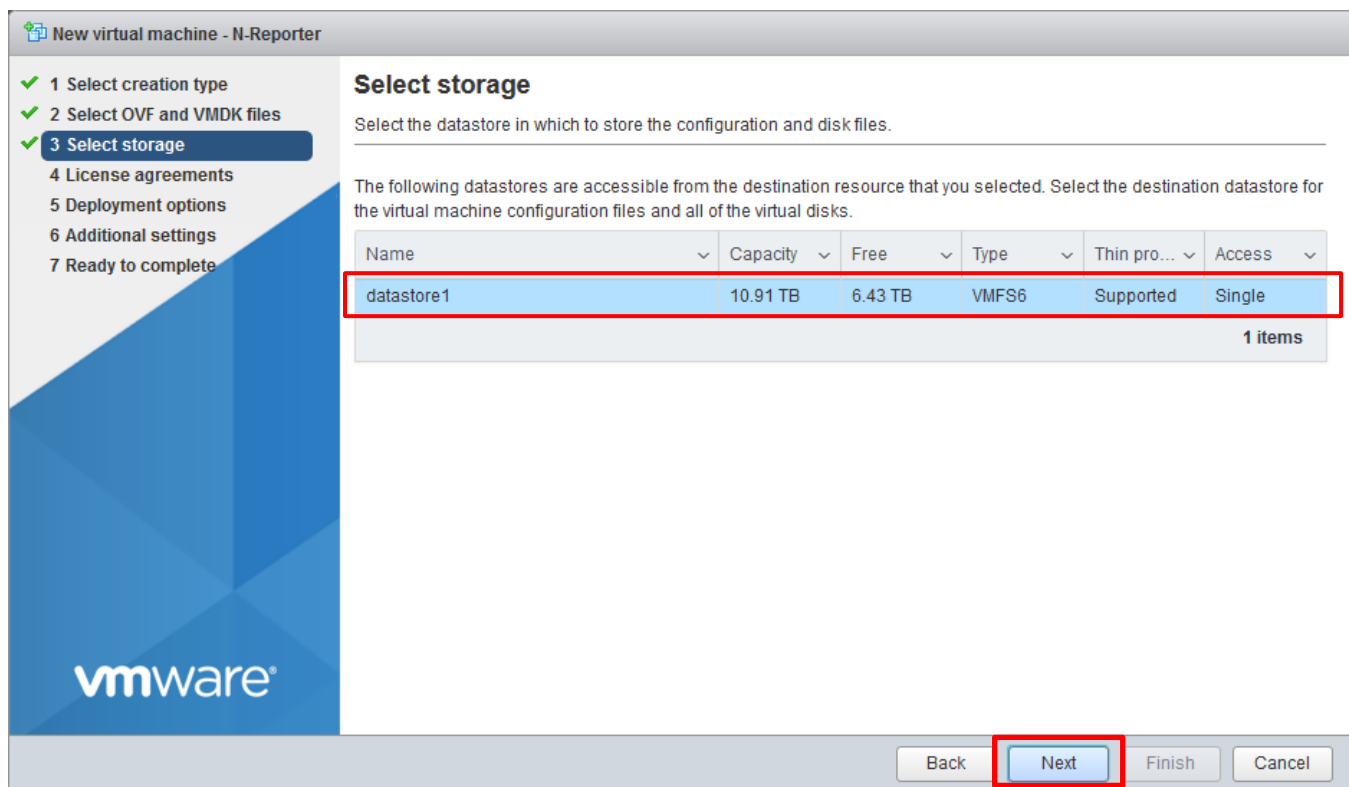
(3) Select “Deploy a virtual machine from an OVF or OVA file” and click “Next.”



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

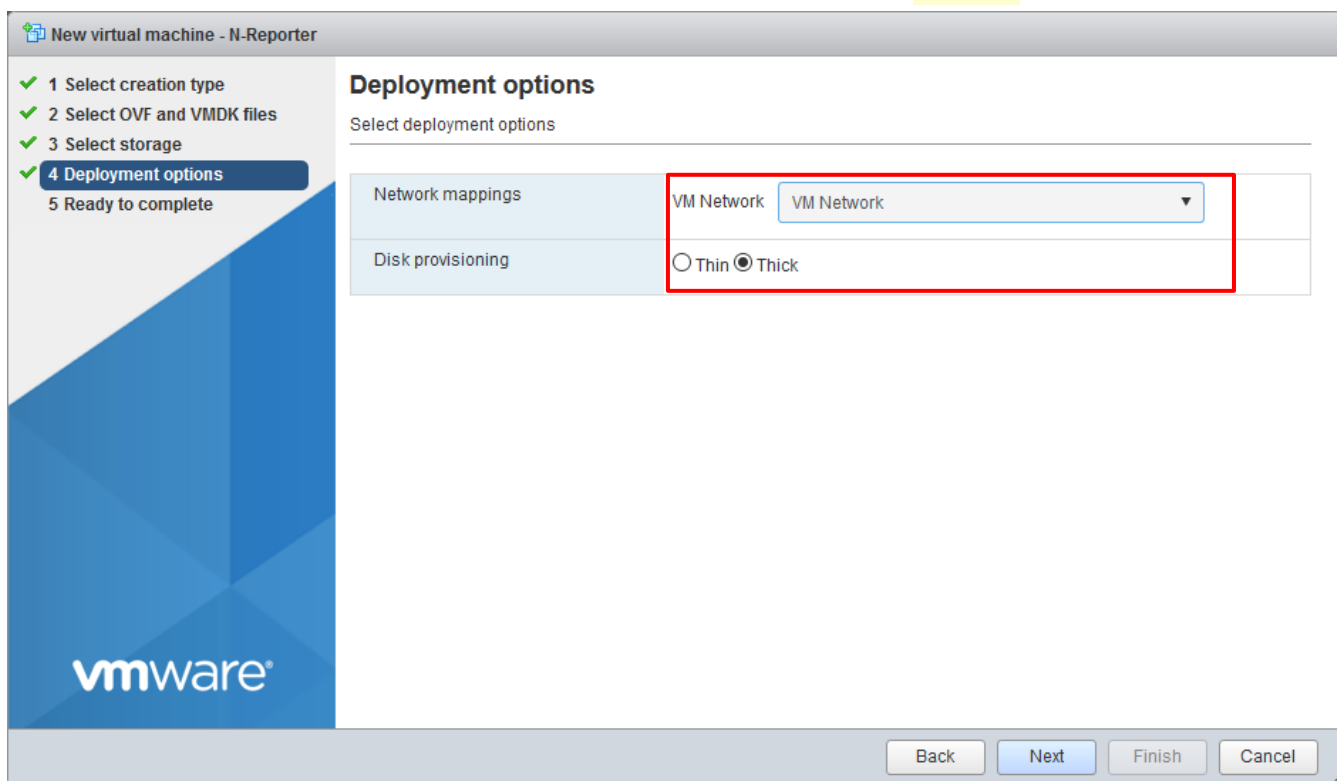


(5) Select a datastore and click “Next.”



(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)




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.

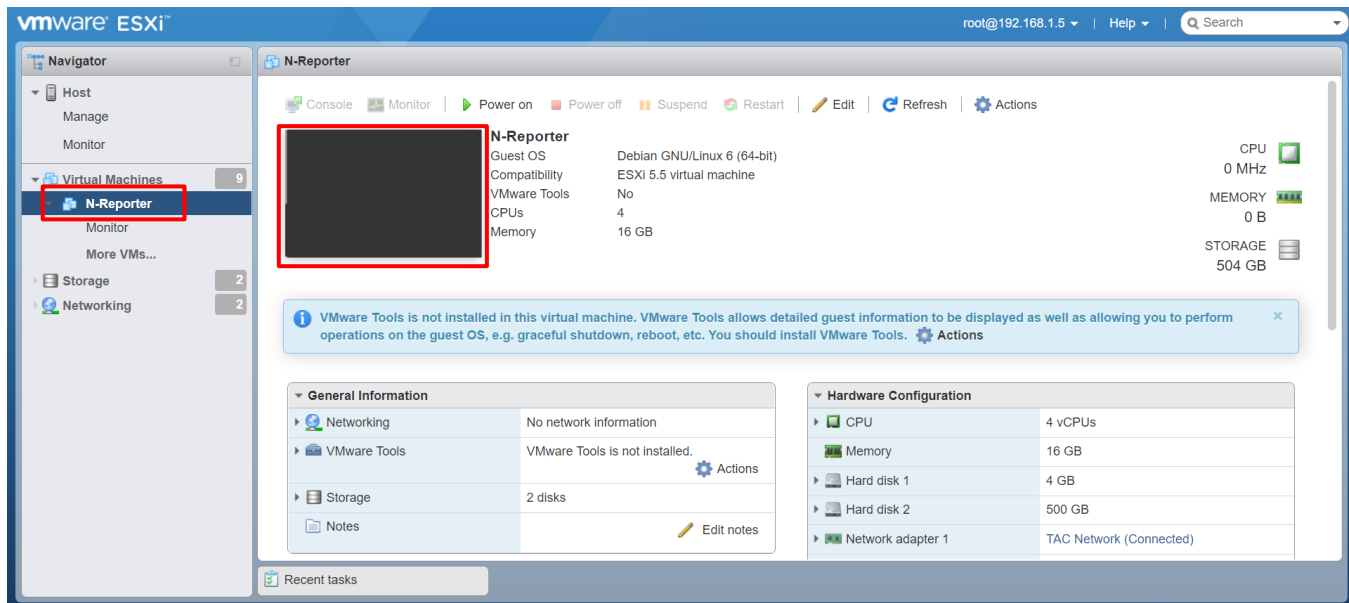
The screenshot shows the 'New virtual machine - N-Reporter' wizard in VMware vSphere. The left sidebar shows five steps, with '5 Ready to complete' selected. The main area is titled 'Ready to complete' and contains a table of settings. A warning icon and message are present below the table. At the bottom right, there are four buttons: 'Back', 'Next', 'Finish' (highlighted with a red box), and 'Cancel'.

Ready to complete	
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

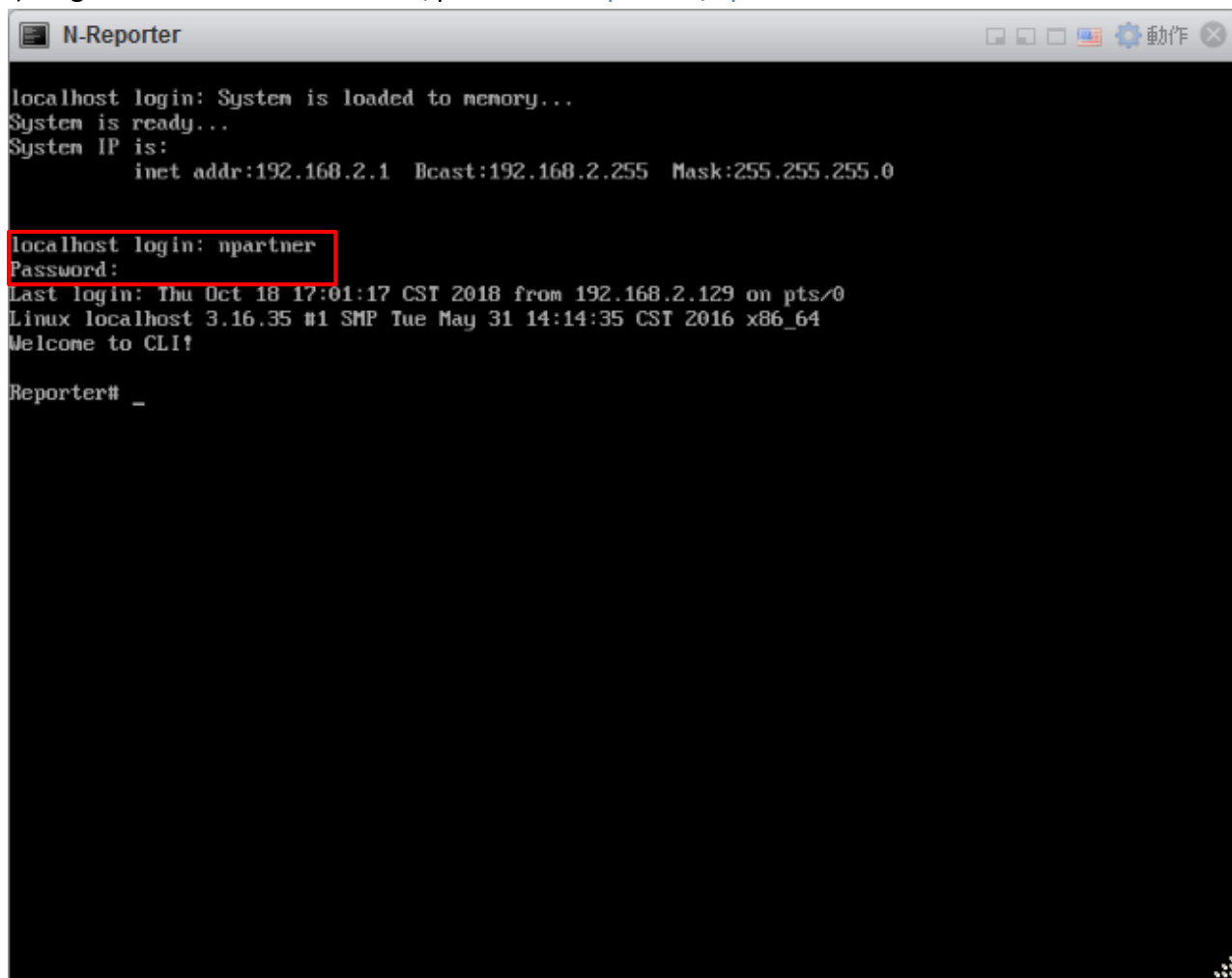
 Do not refresh your browser while this VM is being deployed.

Back Next **Finish** Cancel

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



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

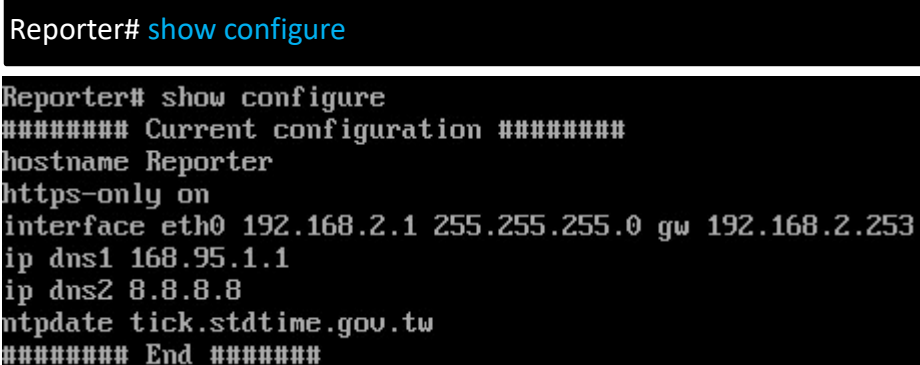
A screenshot of a terminal window titled "N-Reporter". The terminal shows the system boot process: "localhost login: System is loaded to memory...", "System is ready...", and "System IP is: inet addr:192.168.2.1 Bcast:192.168.2.255 Mask:255.255.255.0". The login prompt "localhost login: npartner" is highlighted with a red box, followed by "Password:". Below this, it shows "Last login: Thu Oct 18 17:01:17 CST 2018 from 192.168.2.129 on pts/0", "Linux localhost 3.16.35 #1 SMP Tue May 31 14:14:35 CST 2016 x86_64", and "Welcome to CLI!". The prompt "Reporter# _" is visible at the bottom.

```
localhost login: System is loaded to memory...
System is ready...
System IP is:
    inet addr:192.168.2.1 Bcast:192.168.2.255 Mask:255.255.255.0

localhost login: npartner
Password:
Last login: Thu Oct 18 17:01:17 CST 2018 from 192.168.2.129 on pts/0
Linux localhost 3.16.35 #1 SMP Tue May 31 14:14:35 CST 2016 x86_64
Welcome to CLI!

Reporter# _
```

(10) Check the settings of N-Reporter.

A screenshot of a terminal window showing the command "Reporter# show configure" and its output. The output lists the current configuration: "##### 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", and "##### End #####".

```
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 #####
```

(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 8.8.8.8
```

```
ntpdate tick.stdtime.gov.tw
```

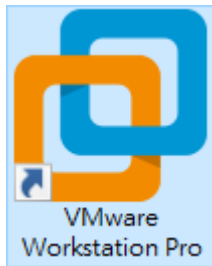
```
##### End #####
```

IP setting: interface [interface] [N-Reporter_IP] [subnet_mask] gw [gateway_IP]

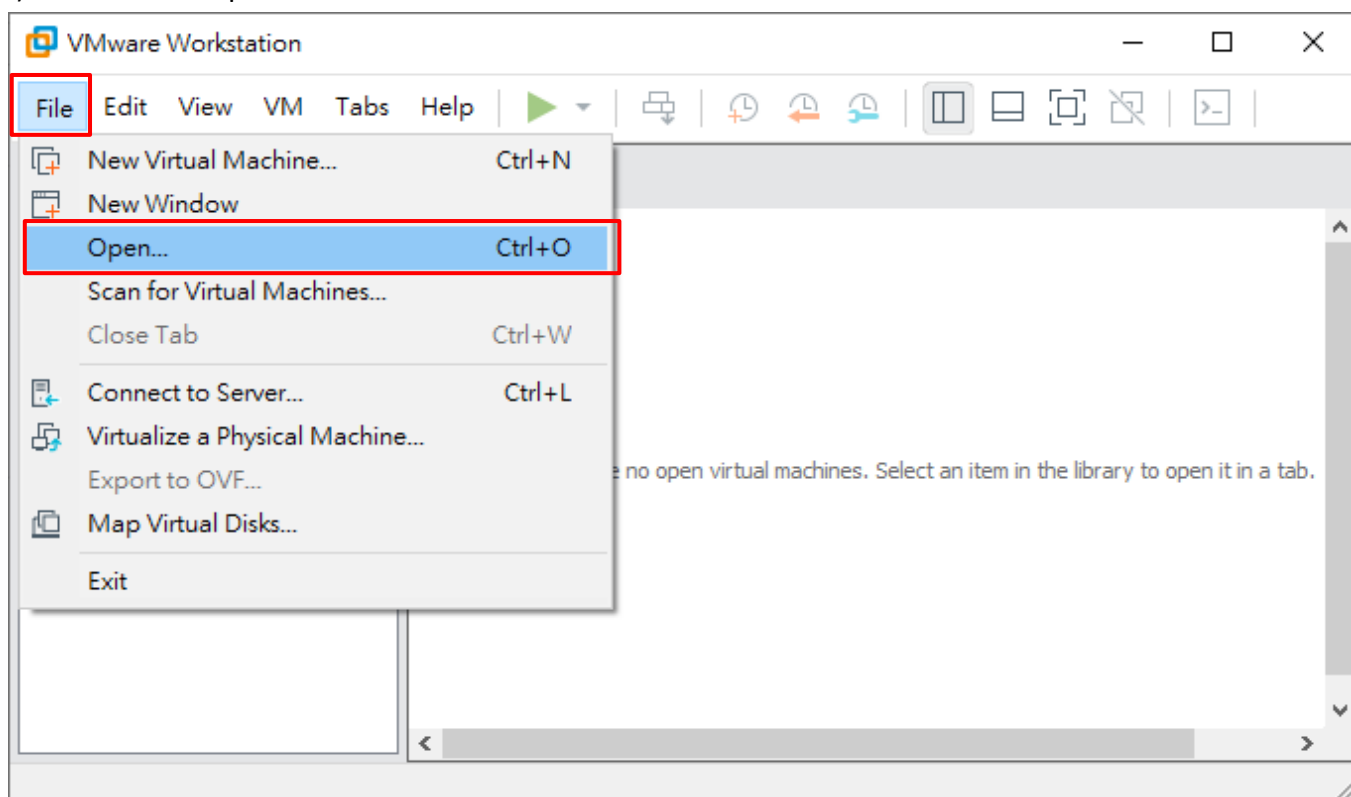
Please enter N-Reporter's IP address as the red part above.

3.3 VMware Workstation

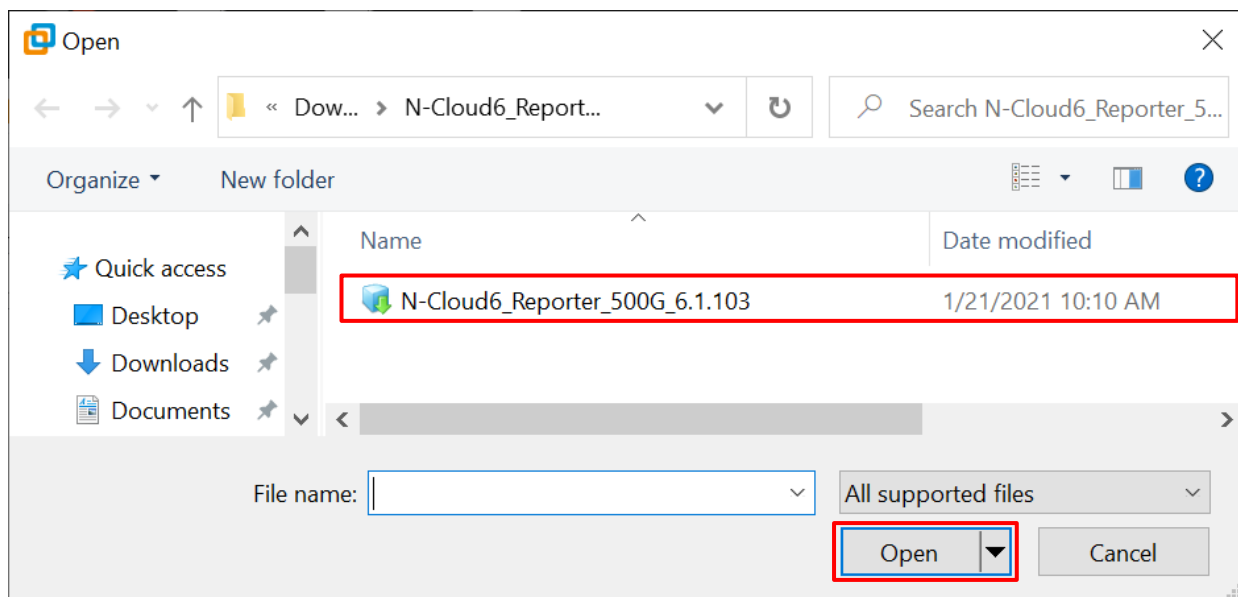
(1) Open “VMware Workstation.”



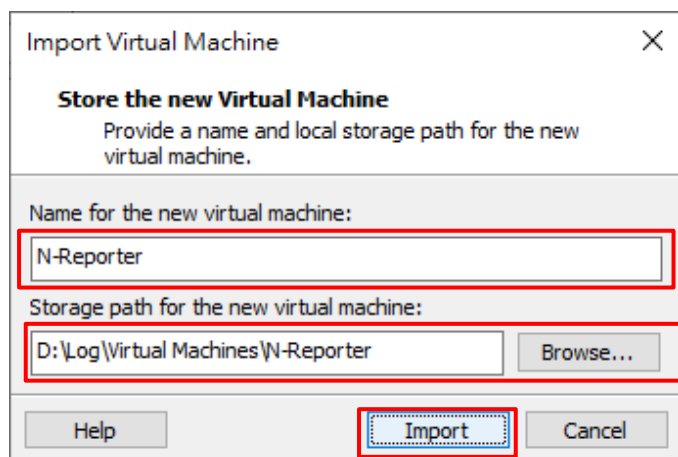
(2) Click “File→ Open....”



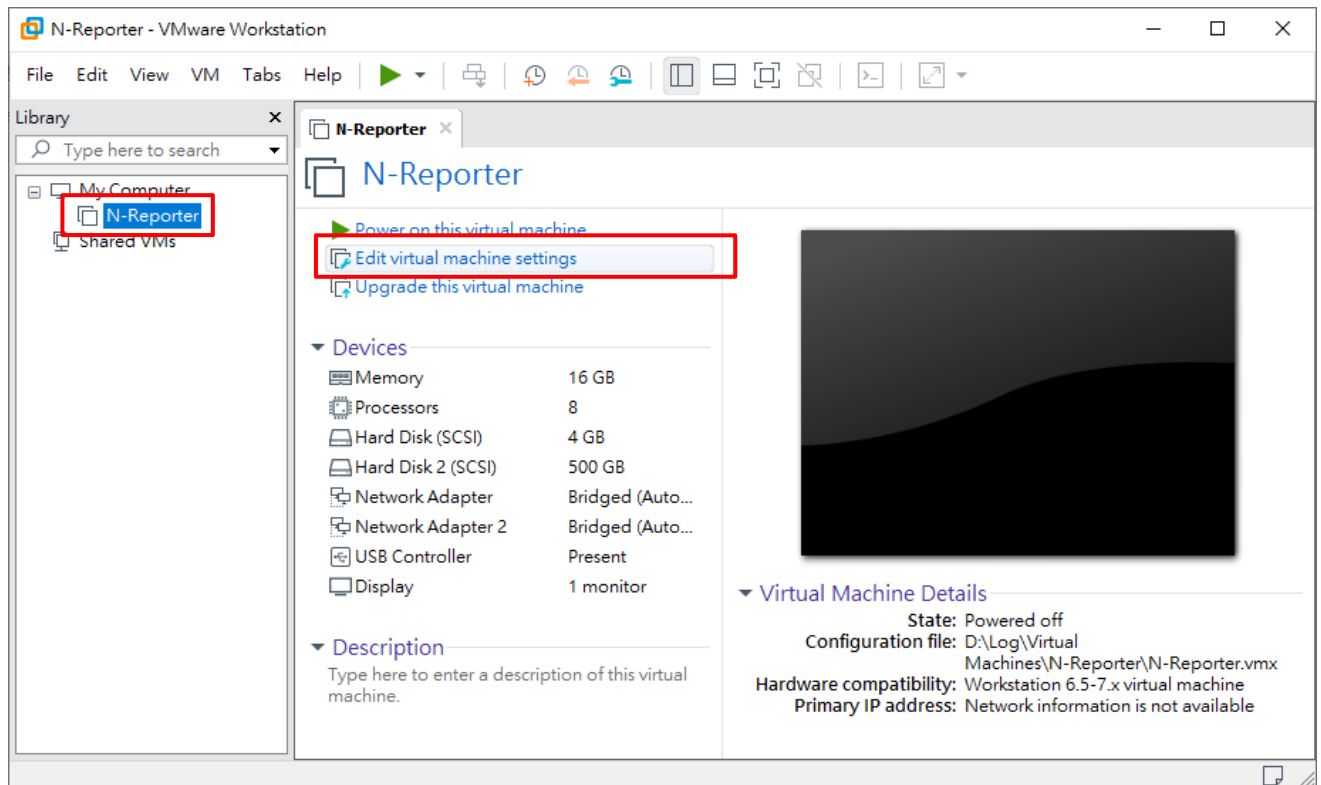
(3) Select the N-Reporter OVA file and click “Open.”



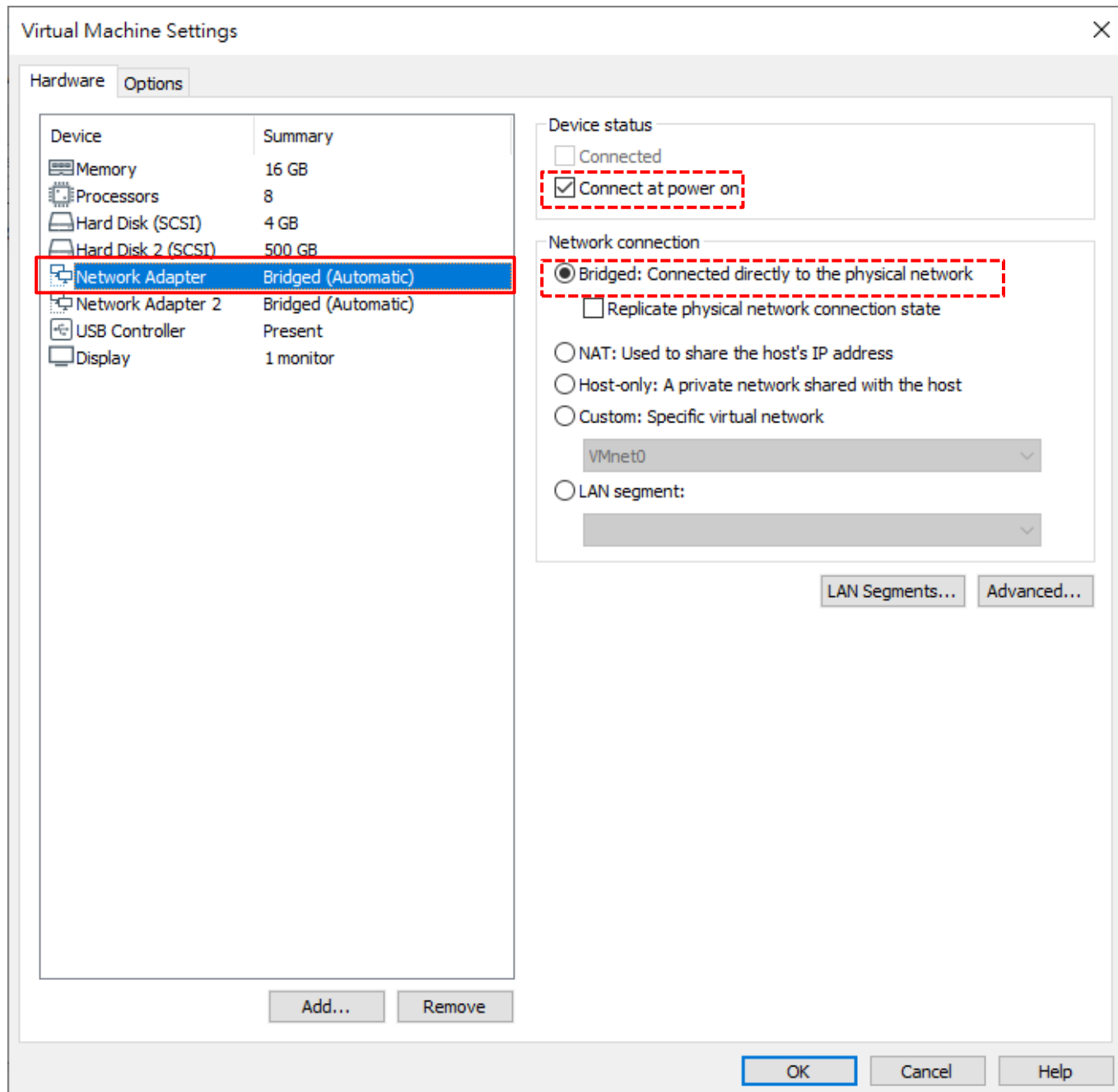
(4) Enter a name for the virtual machine and select a storage path. Click “Import.”



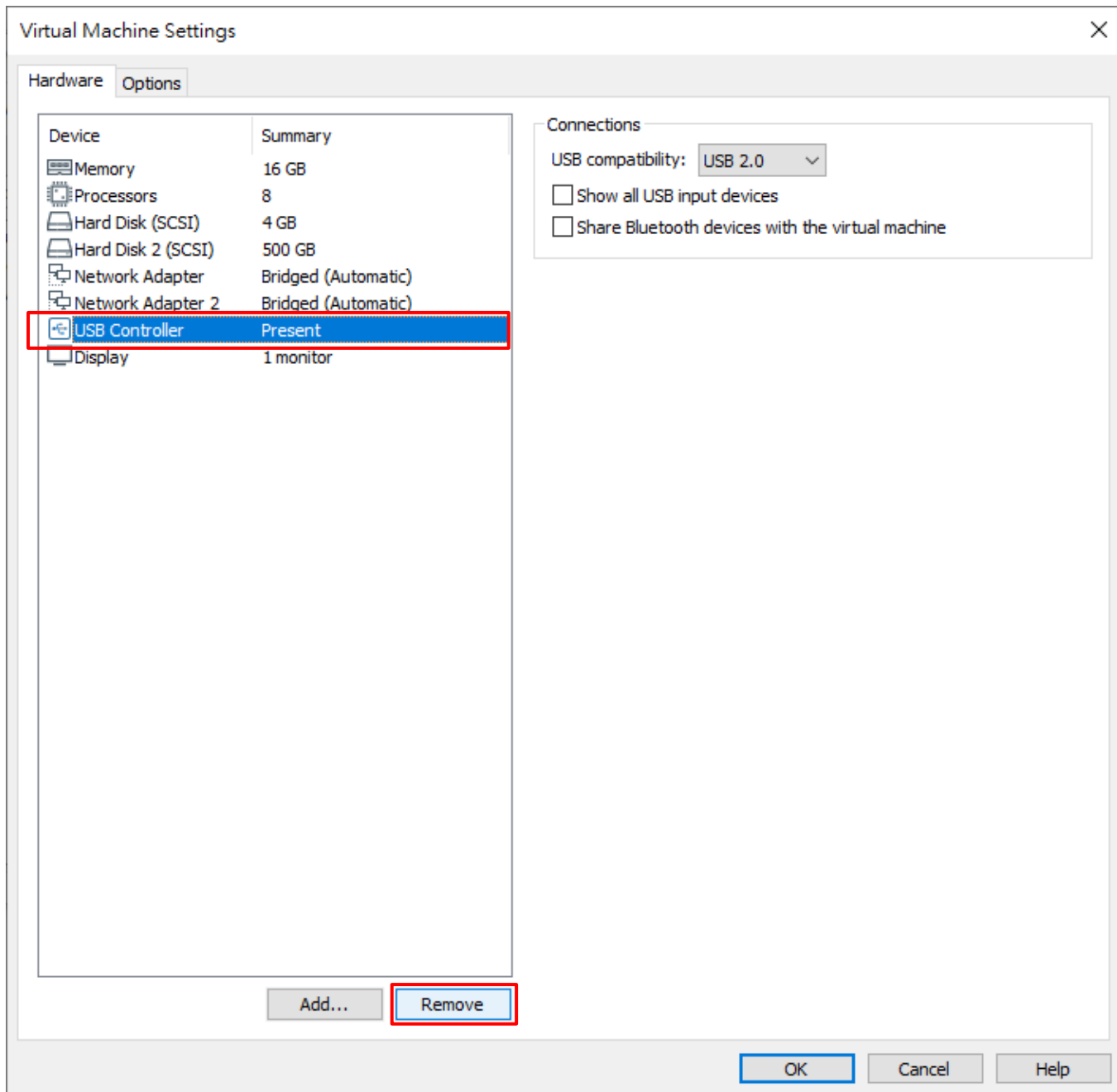
(5) Select N-Reporter virtual machine and click “Edit virtual machine settings.”



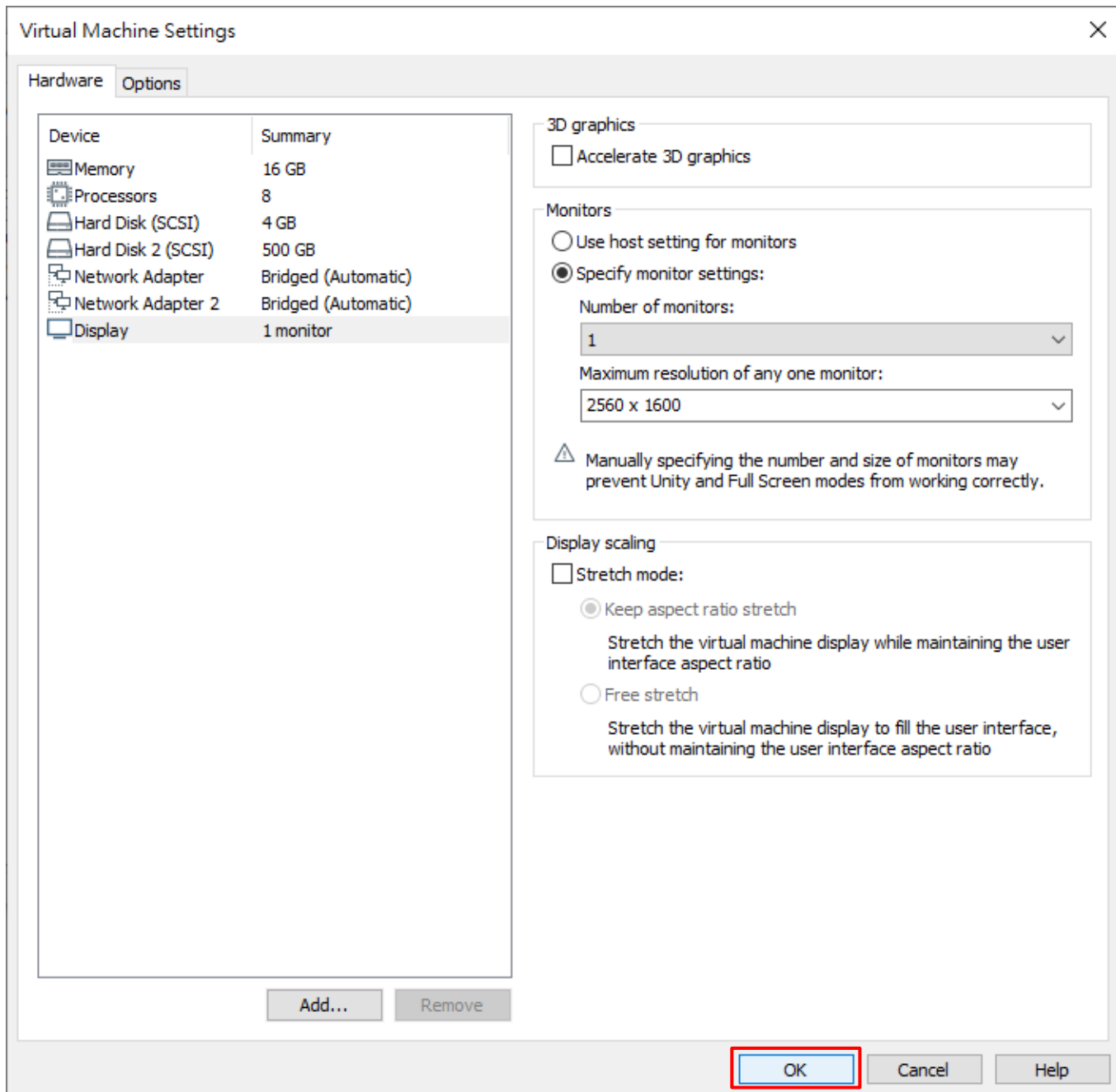
(6) Select "Network Adapter." Select "Connect at power on" and "Bridged."



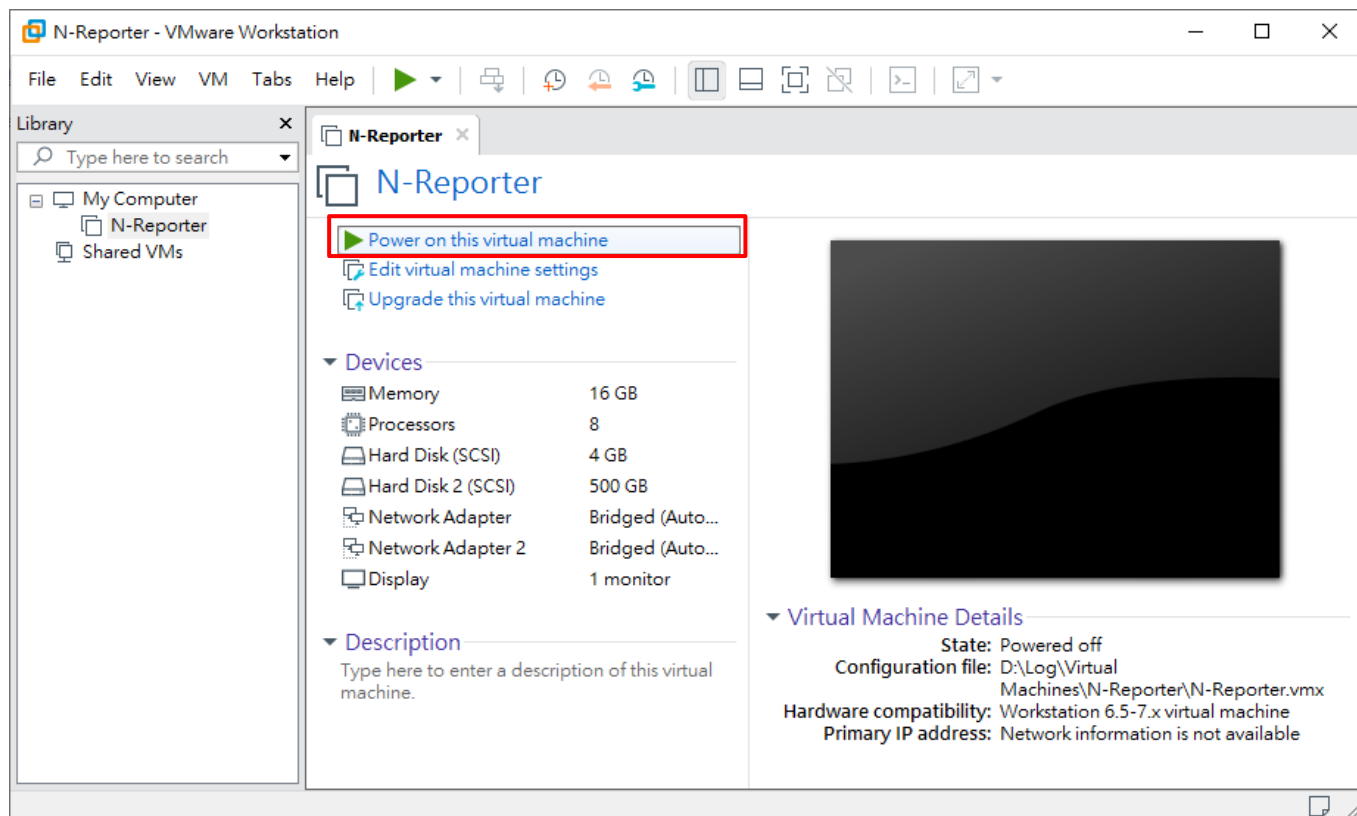
(7) Select “USB Controller” and click “Remove.”



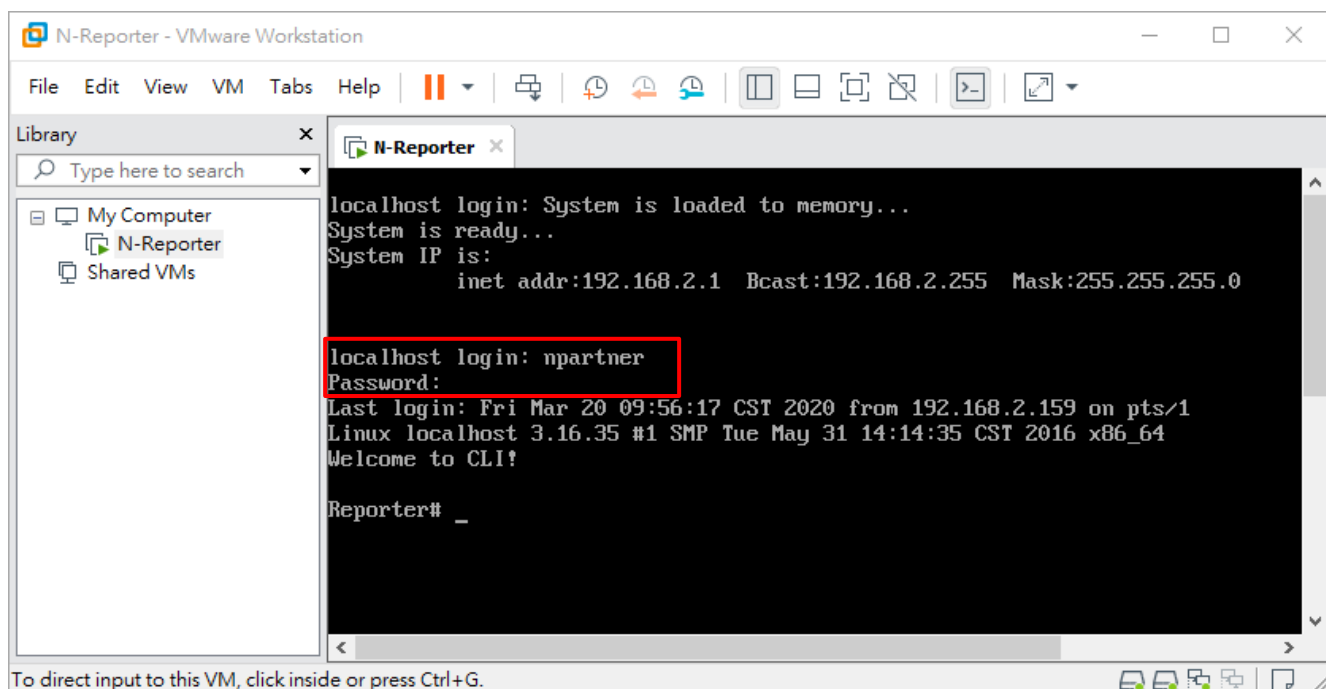
(8) Click "OK."



(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
```

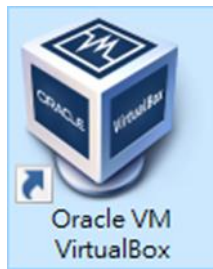
```
Reporter# configure terminal
Reporter(config)# interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253
Reporter(config)# exit
Reporter# show configure
##### Current configuration #####
hostname Reporter
https-only on
interface eth0 192.168.2.128 255.255.255.0 gw 192.168.2.253
##### End #####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

IP setting: interface [interface] [N-Reporter_IP] [subnet_mask] gw [gateway_IP]

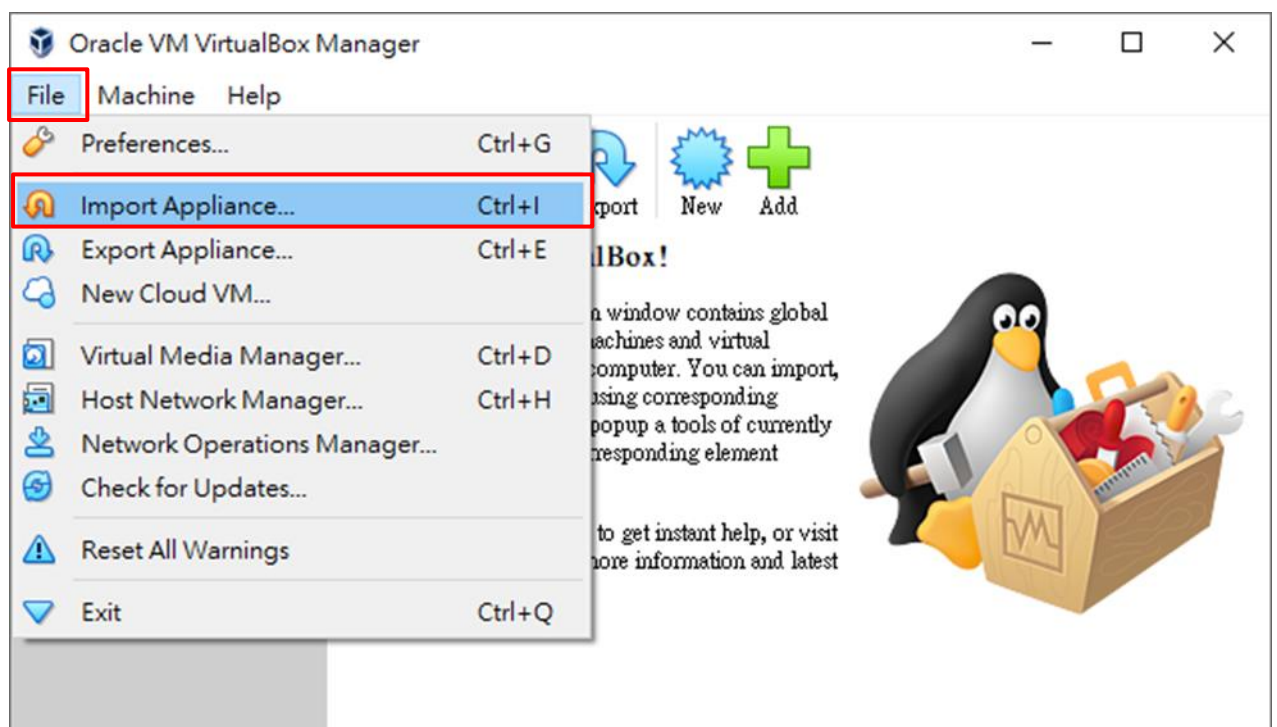
Please enter N-Reporter's IP address as the red part above.

3.4 VirtualBox

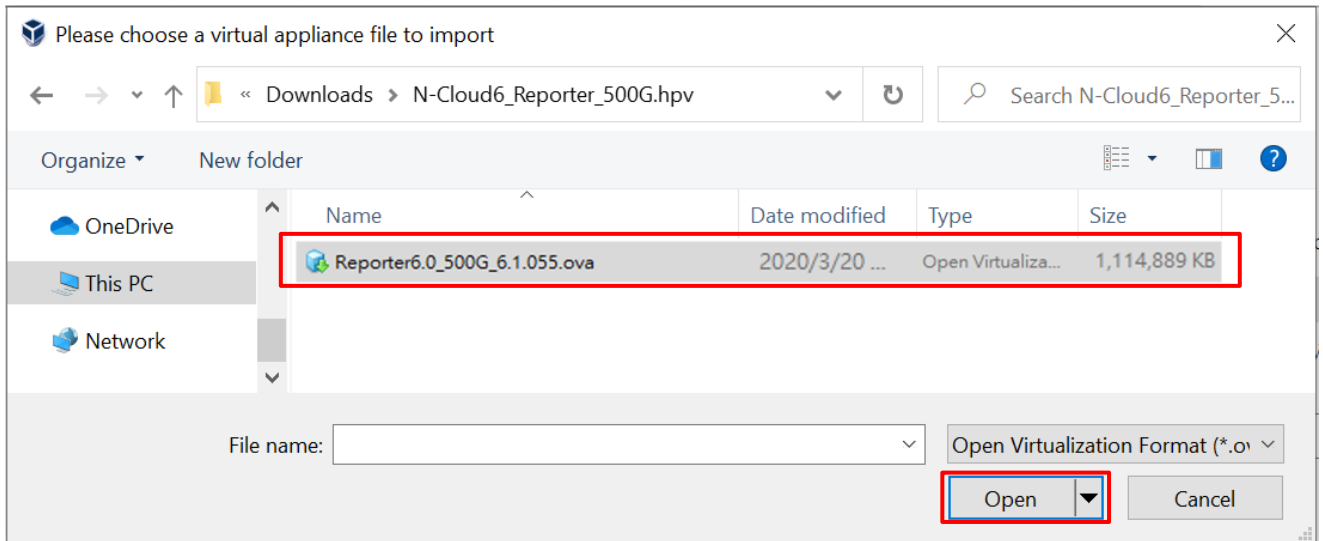
(1) Open “Oracle VM VirtualBox.”



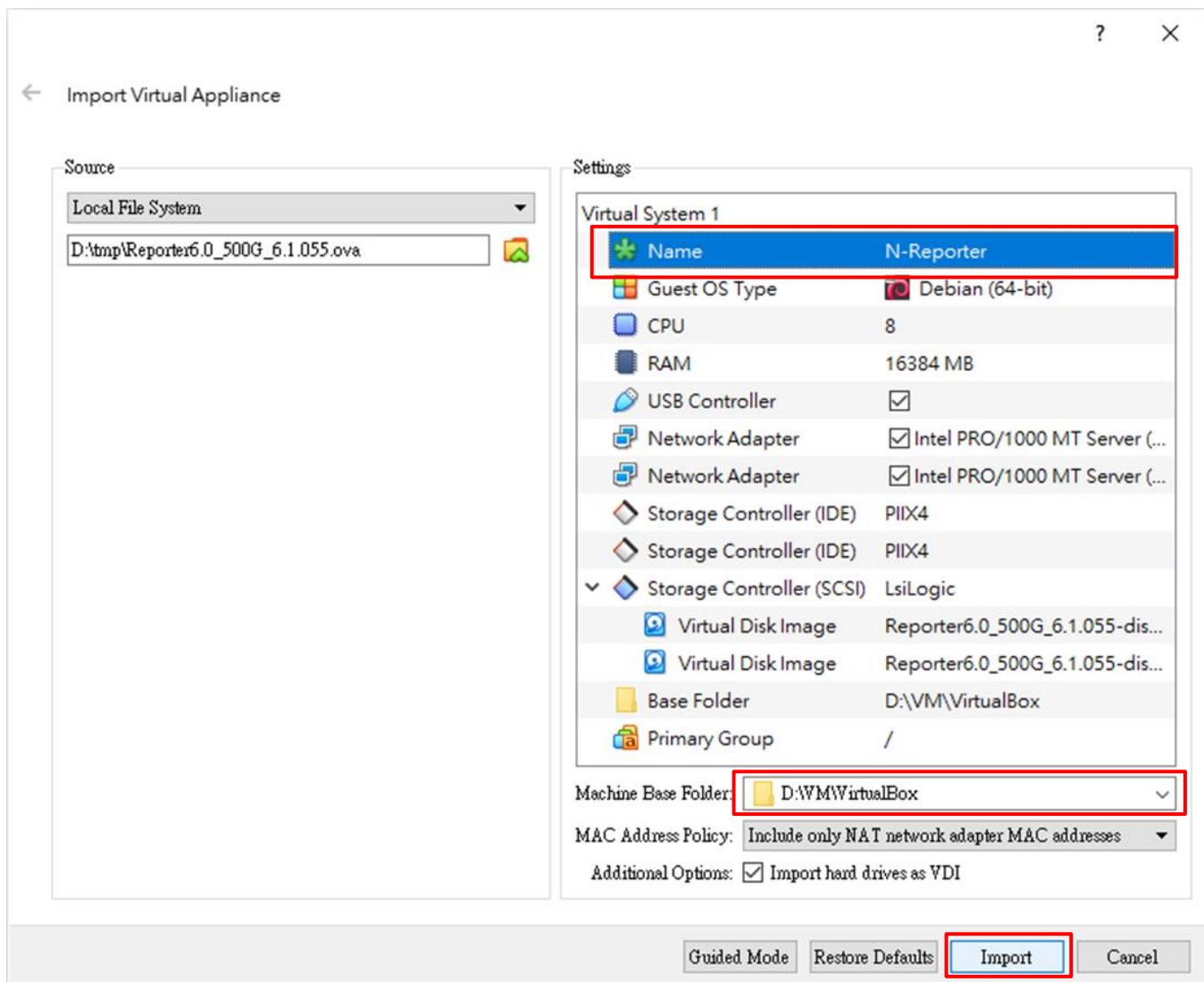
(2) Click “File→ Import Appliance...”



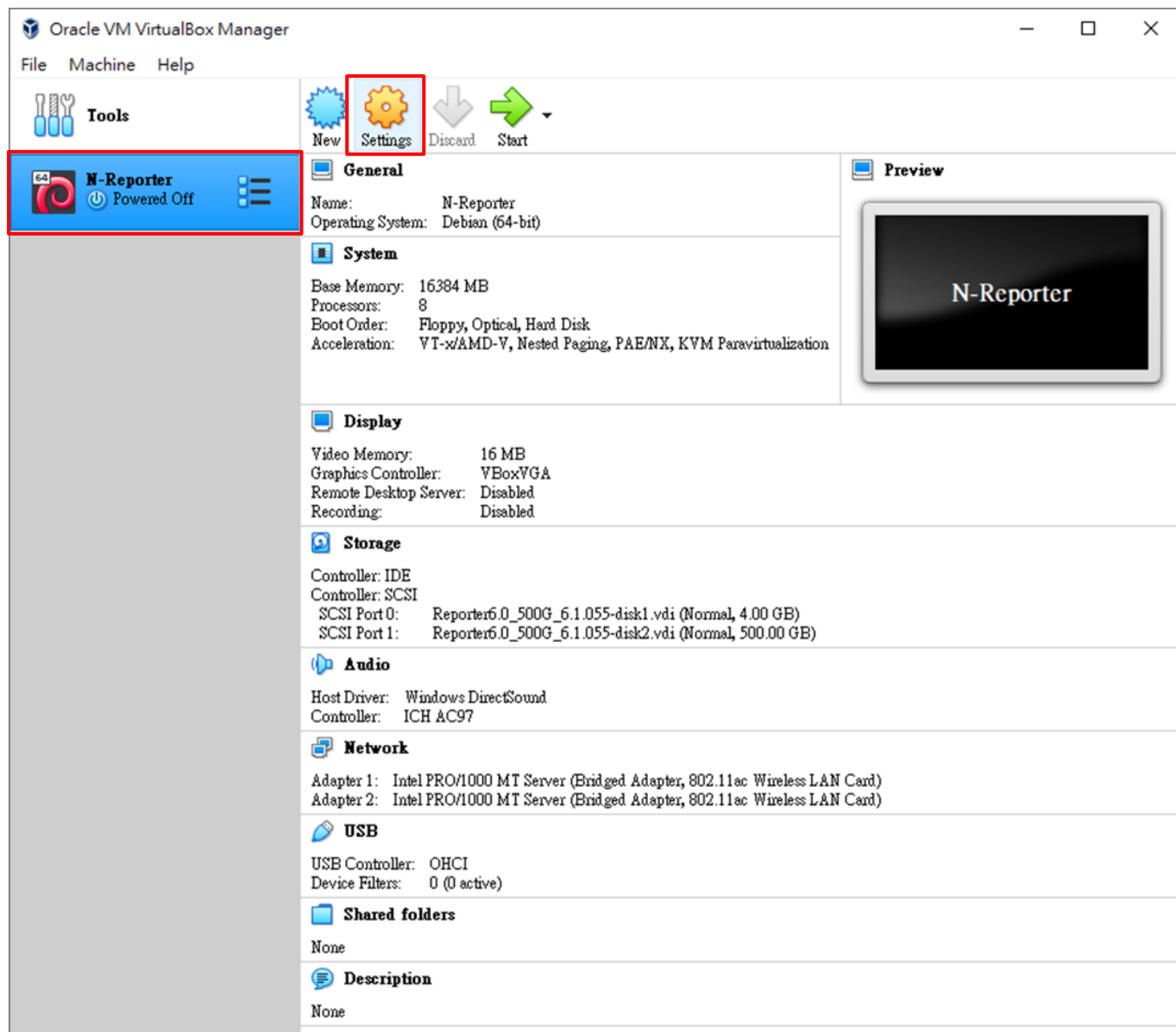
(3) Select the N-Reporter OVA file and click “Open.”



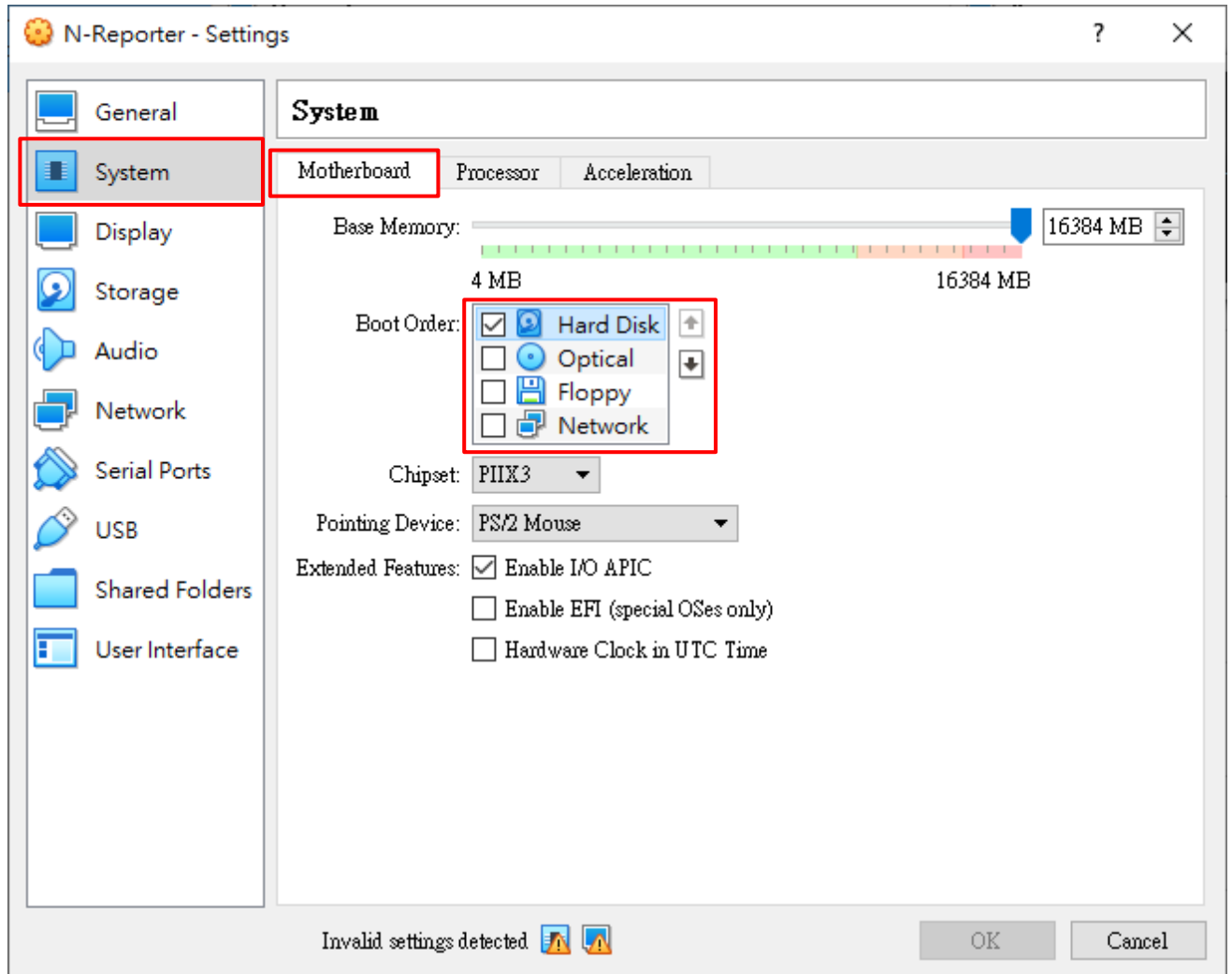
(4) Enter a name for the virtual machine and select a path. Click “Import.”



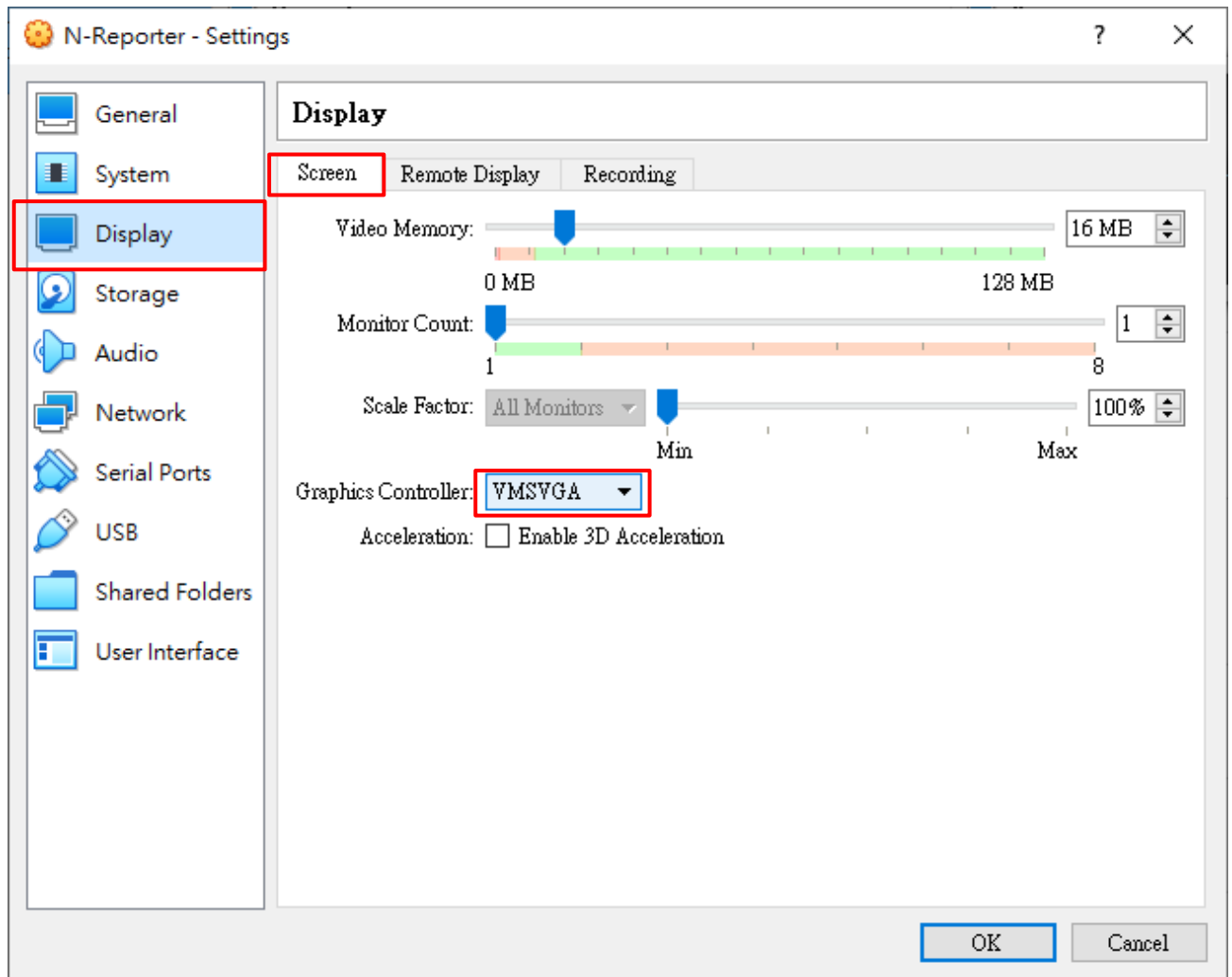
(5) Select N-Reporter VM and click “Settings.”



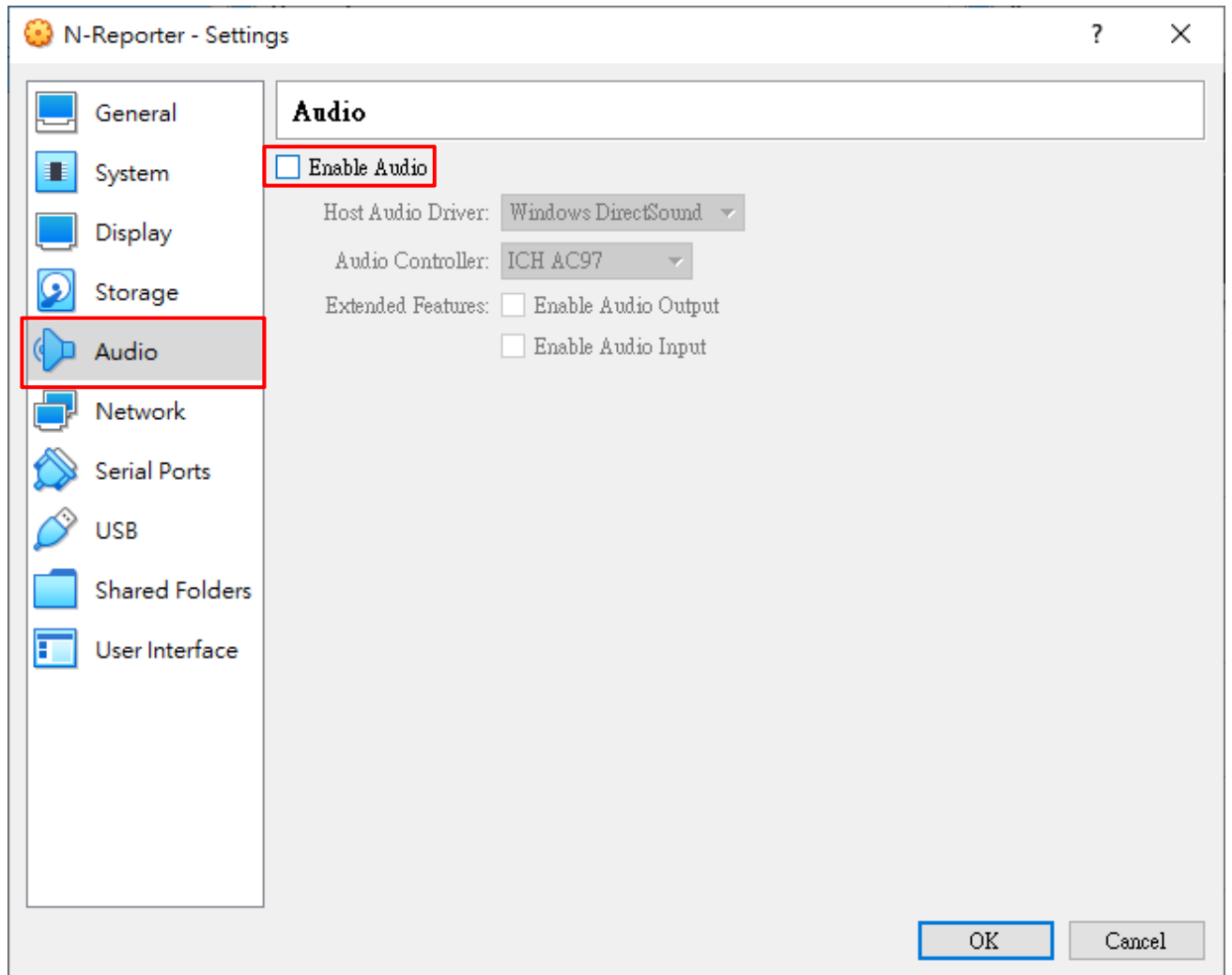
(6) Click “System,” click “Motherboard” and select “Hard Disk” in “Boot Order.”



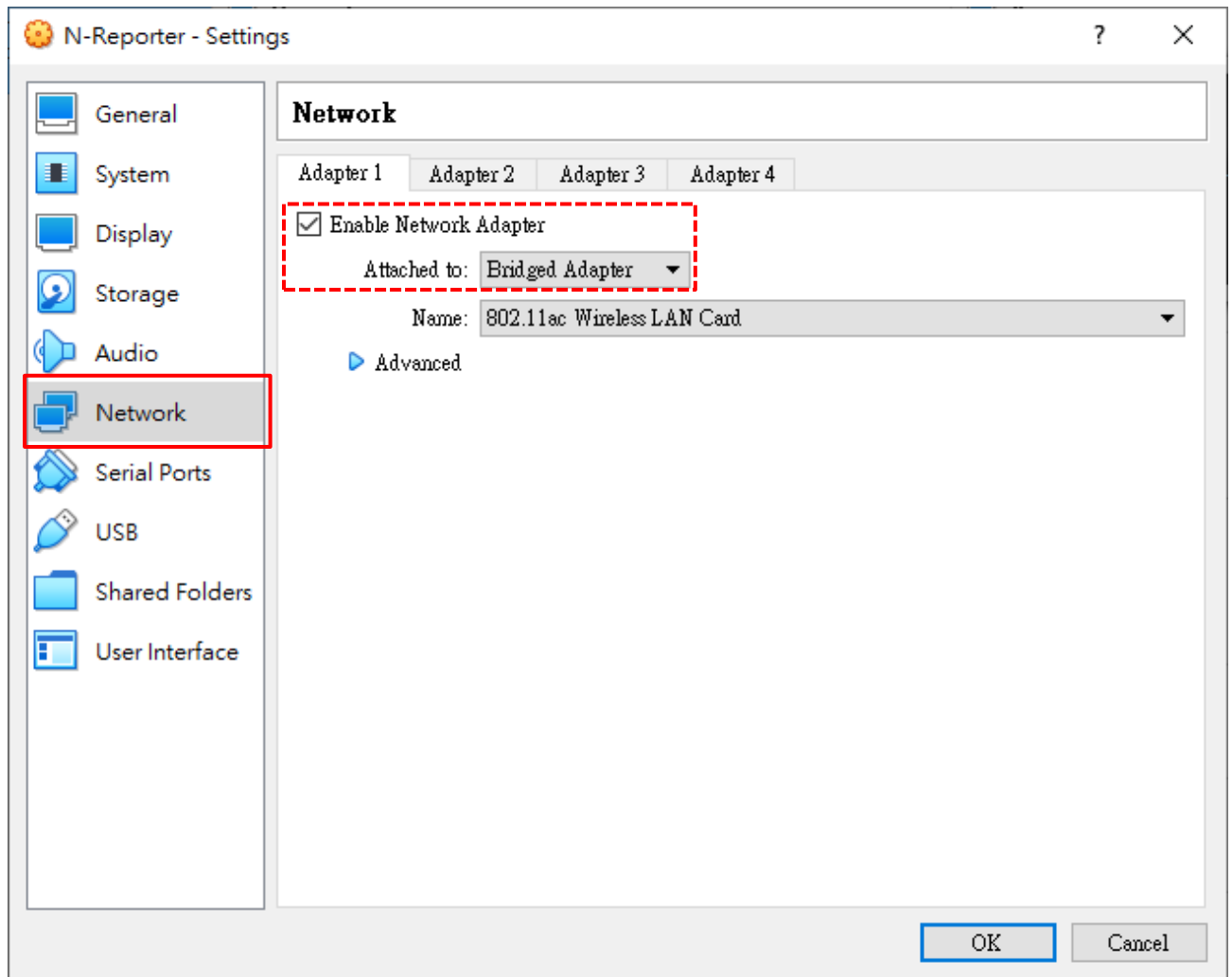
(7) Go to “Display,” click “Screen” and select “VMSVGA.”



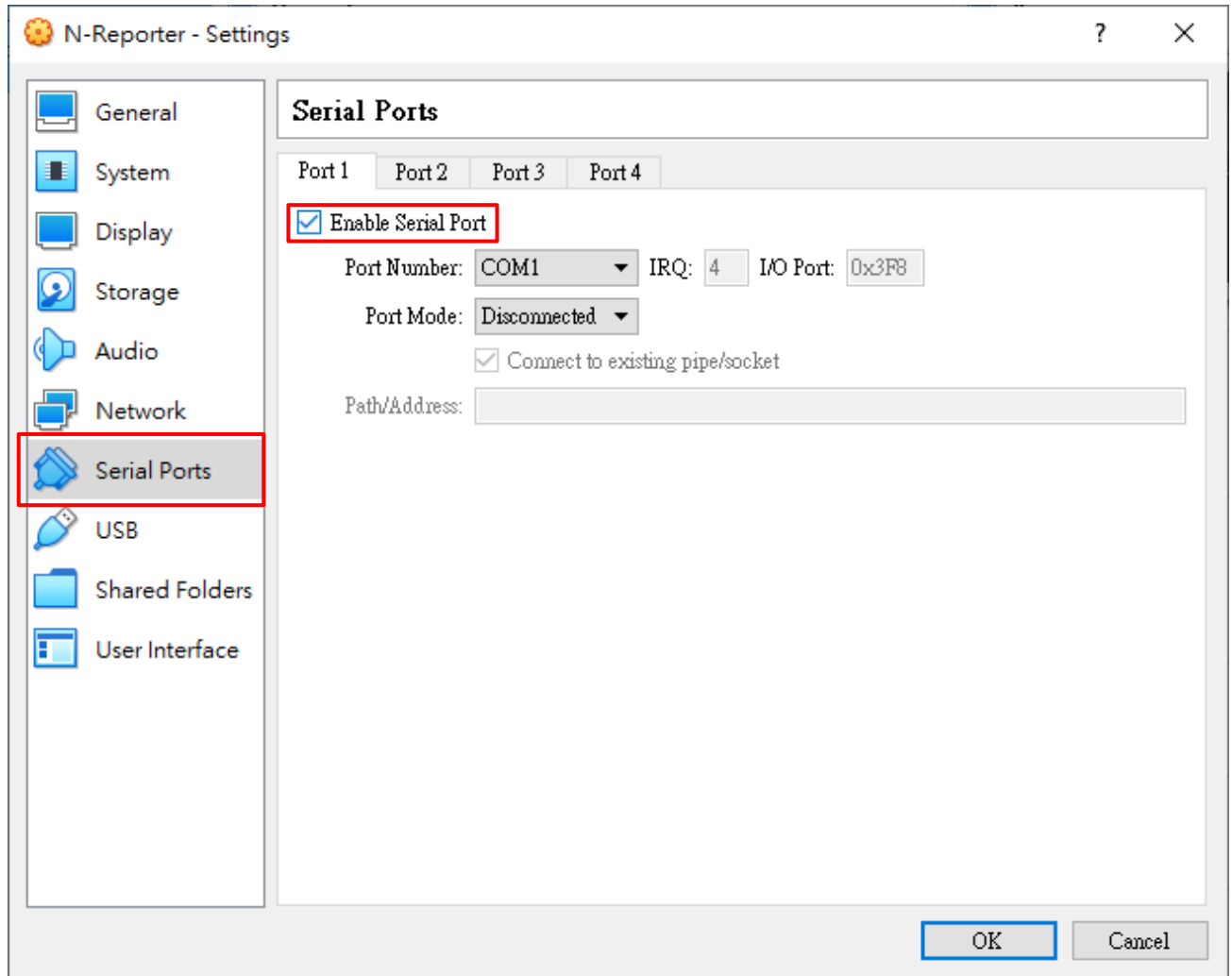
(8) Go to "Audio" and uncheck "Enable Audio."



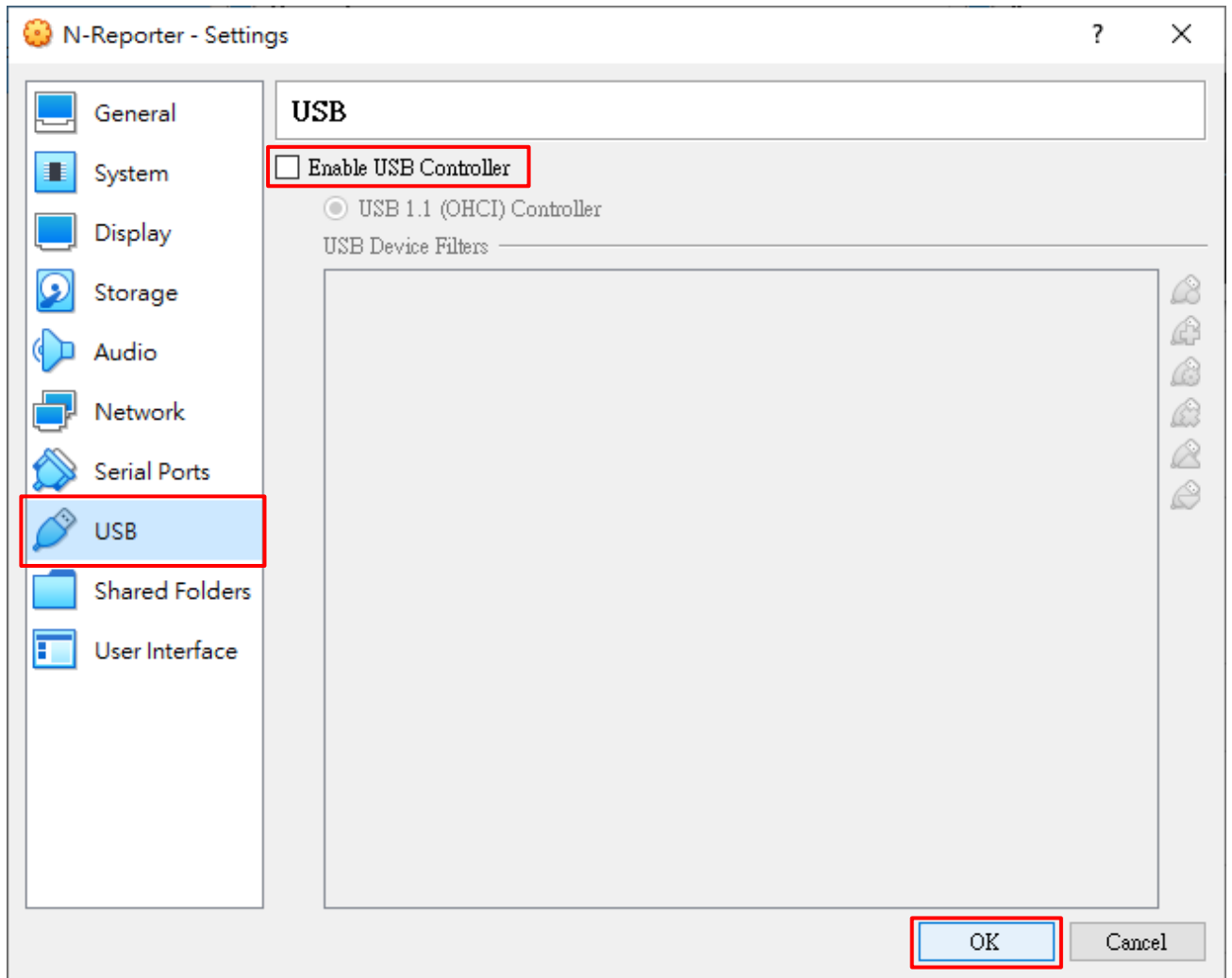
(9) Go to “Network,” check “Enable Network Adapter” and select “Bridged Adapter.”



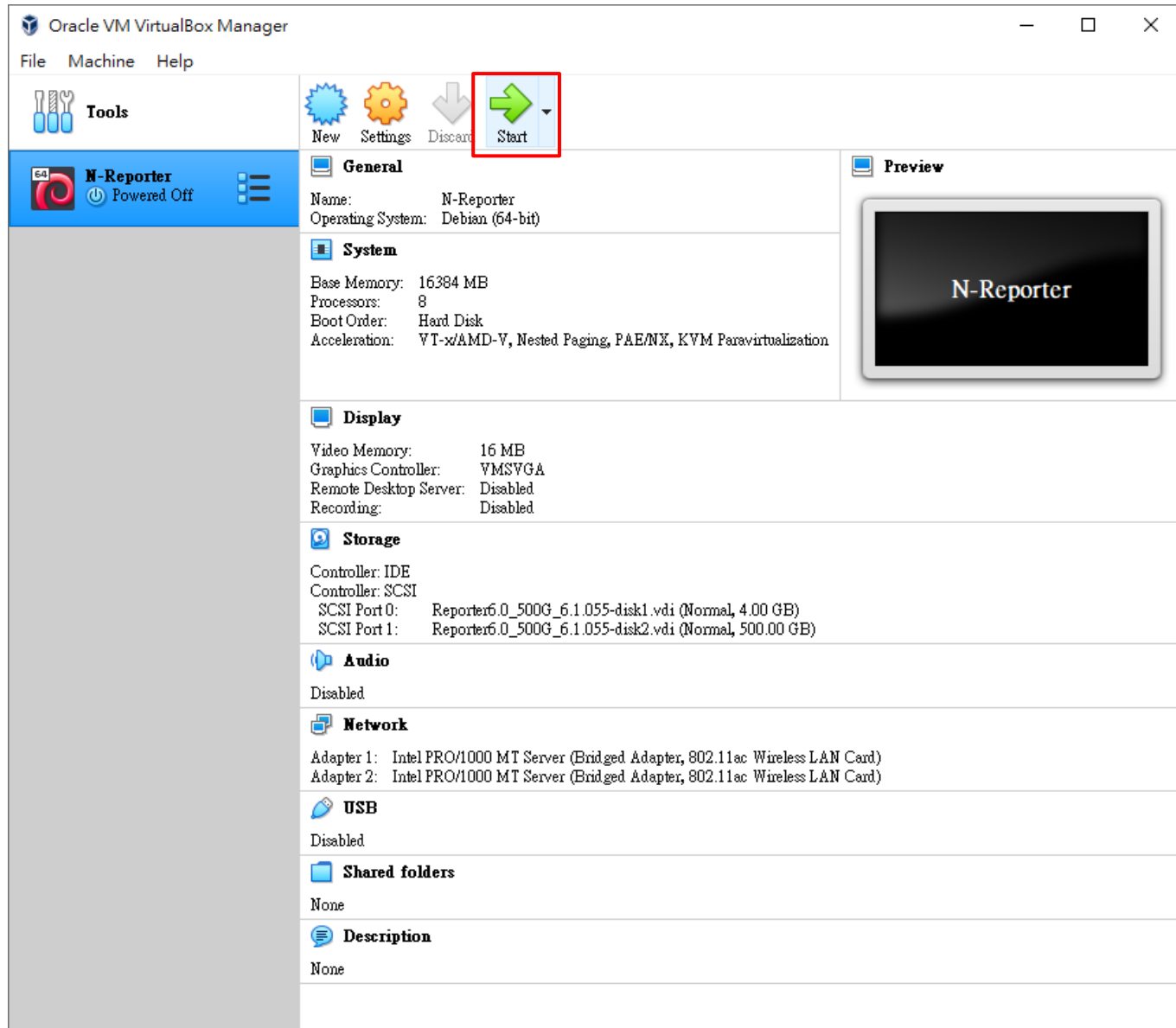
(10) Go to “Serial Ports” and check “Enable Serial Port.”



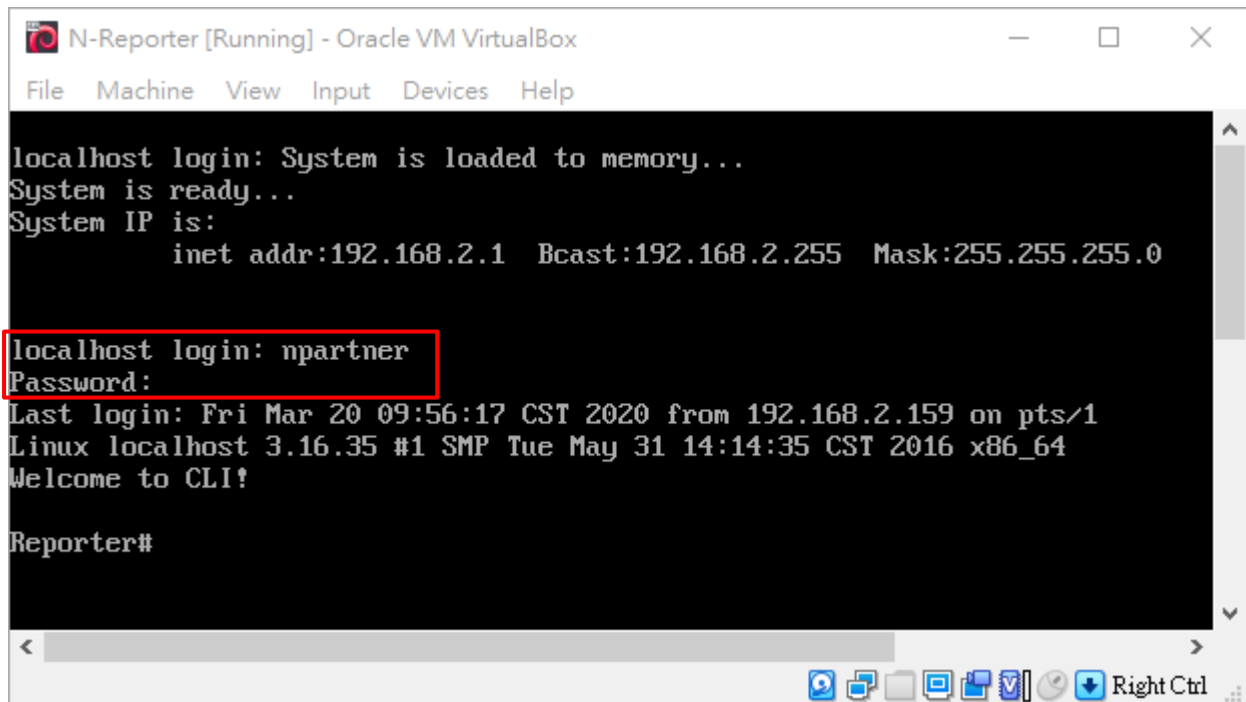
(11) Go to “USB,” uncheck “Enable USB Controller,” and click “OK.”



(12) Click “Start.”



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



The screenshot shows a terminal window titled "N-Reporter [Running] - Oracle VM VirtualBox". The terminal output is as follows:

```
localhost login: System is loaded to memory...
System is ready...
System IP is:
    inet addr:192.168.2.1  Bcast:192.168.2.255  Mask:255.255.255.0

localhost login: npartner
Password:
Last login: Fri Mar 20 09:56:17 CST 2020 from 192.168.2.159 on pts/1
Linux localhost 3.16.35 #1 SMP Tue May 31 14:14:35 CST 2016 x86_64
Welcome to CLI!

Reporter#
```

The "localhost login: npartner" line is highlighted with a red box. The terminal window includes a menu bar (File, Machine, View, Input, Devices, Help) and a toolbar at the bottom with icons for search, copy, paste, and other functions.

(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 #####
```

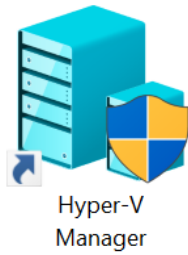
```
Reporter#
```

IP setting: interface [interface] [N-Reporter_IP] [subnet_mask] gw [gateway_IP]

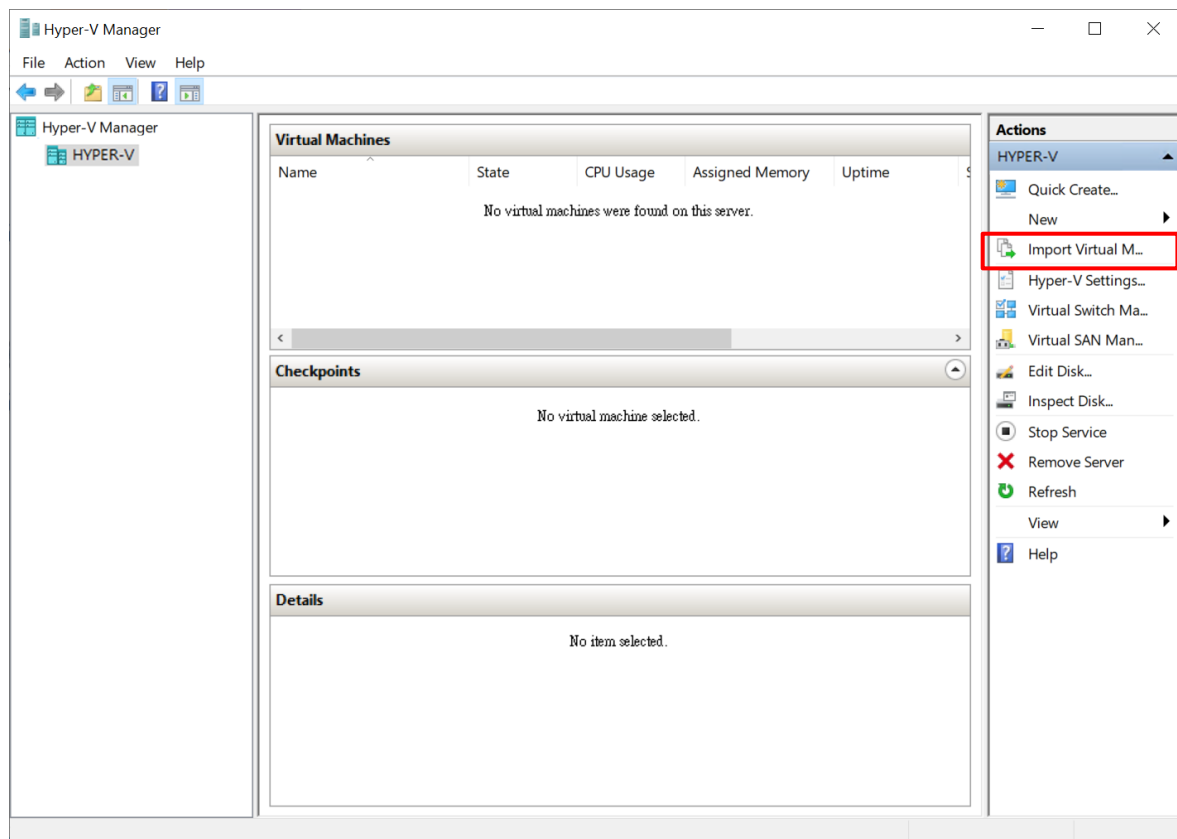
Please enter N-Reporter's IP address as the red part above.

3.5 Hyper-V

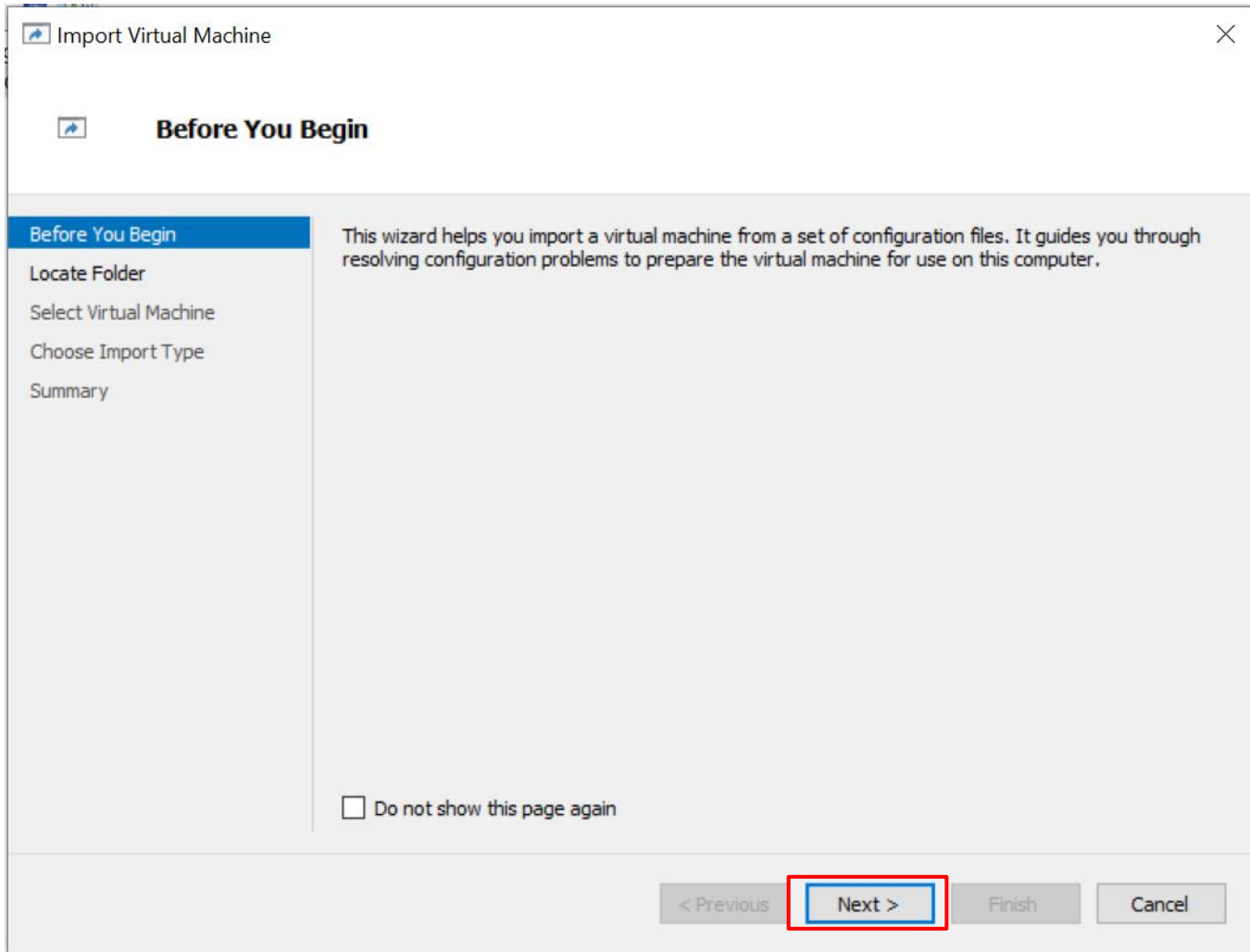
(1) Open “Hyper-V Manager.”



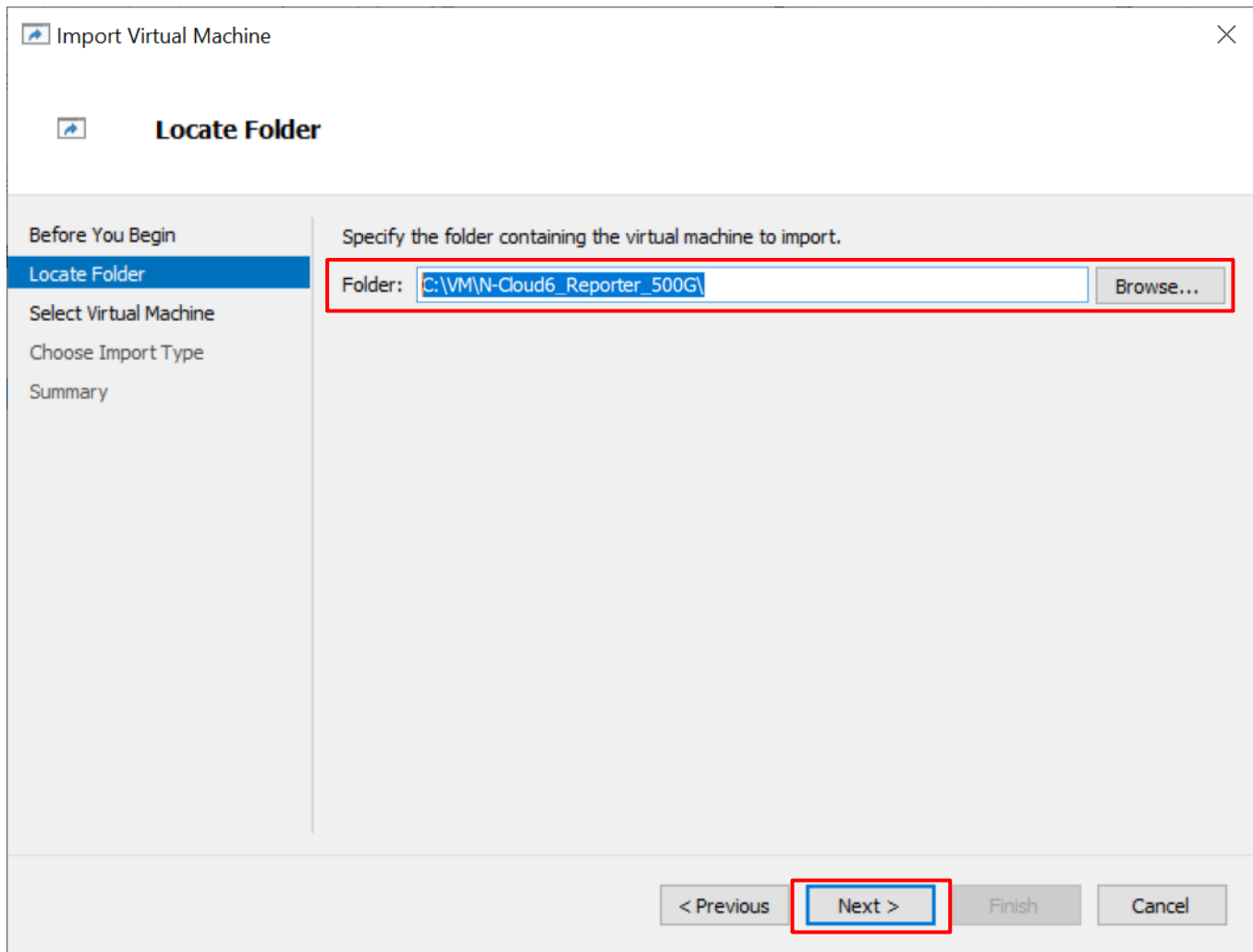
(2) Click “Import Virtual Machine.”



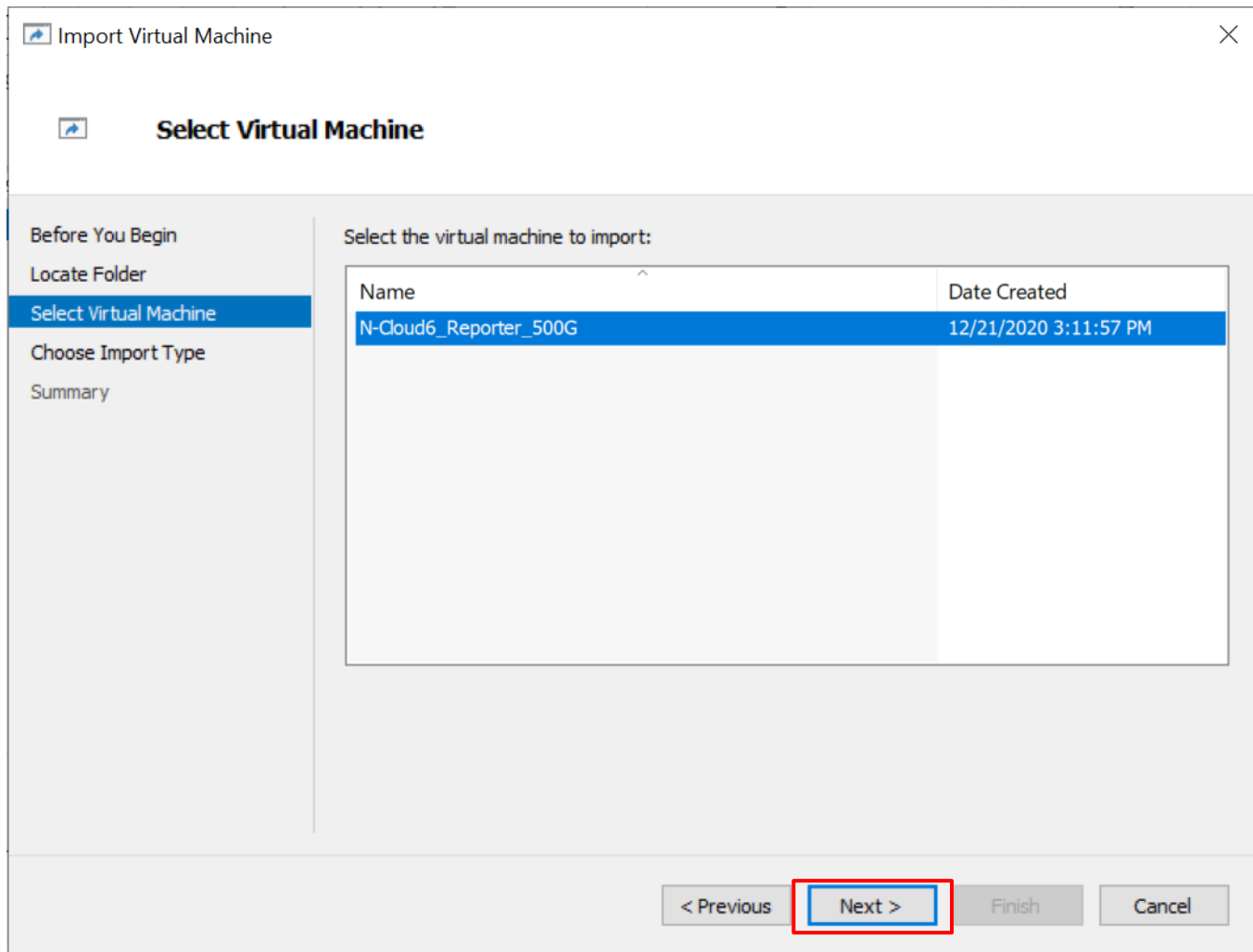
(3) Click “Next.”



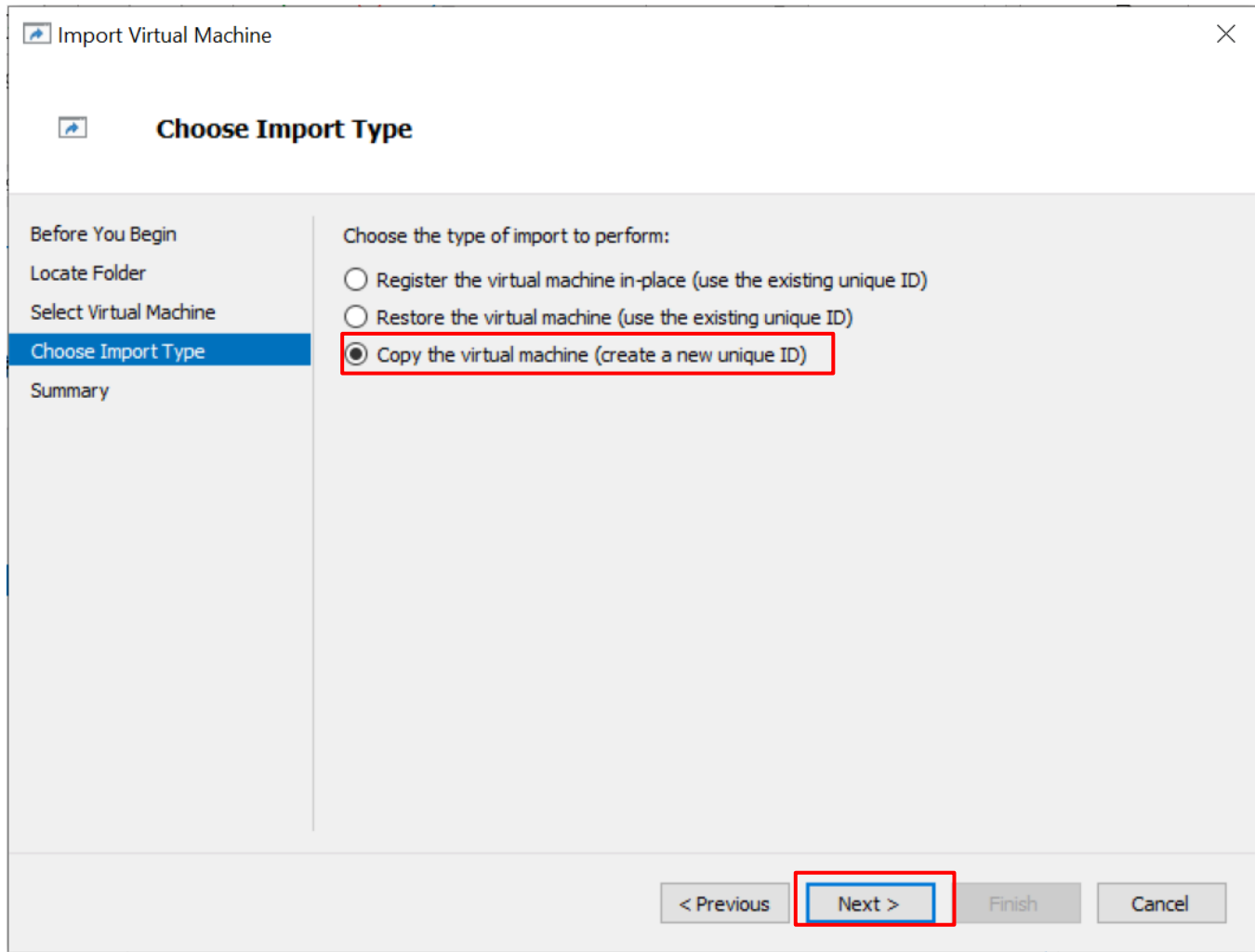
(4) Click “Browse” and select the folder to import. Click “Next.”



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



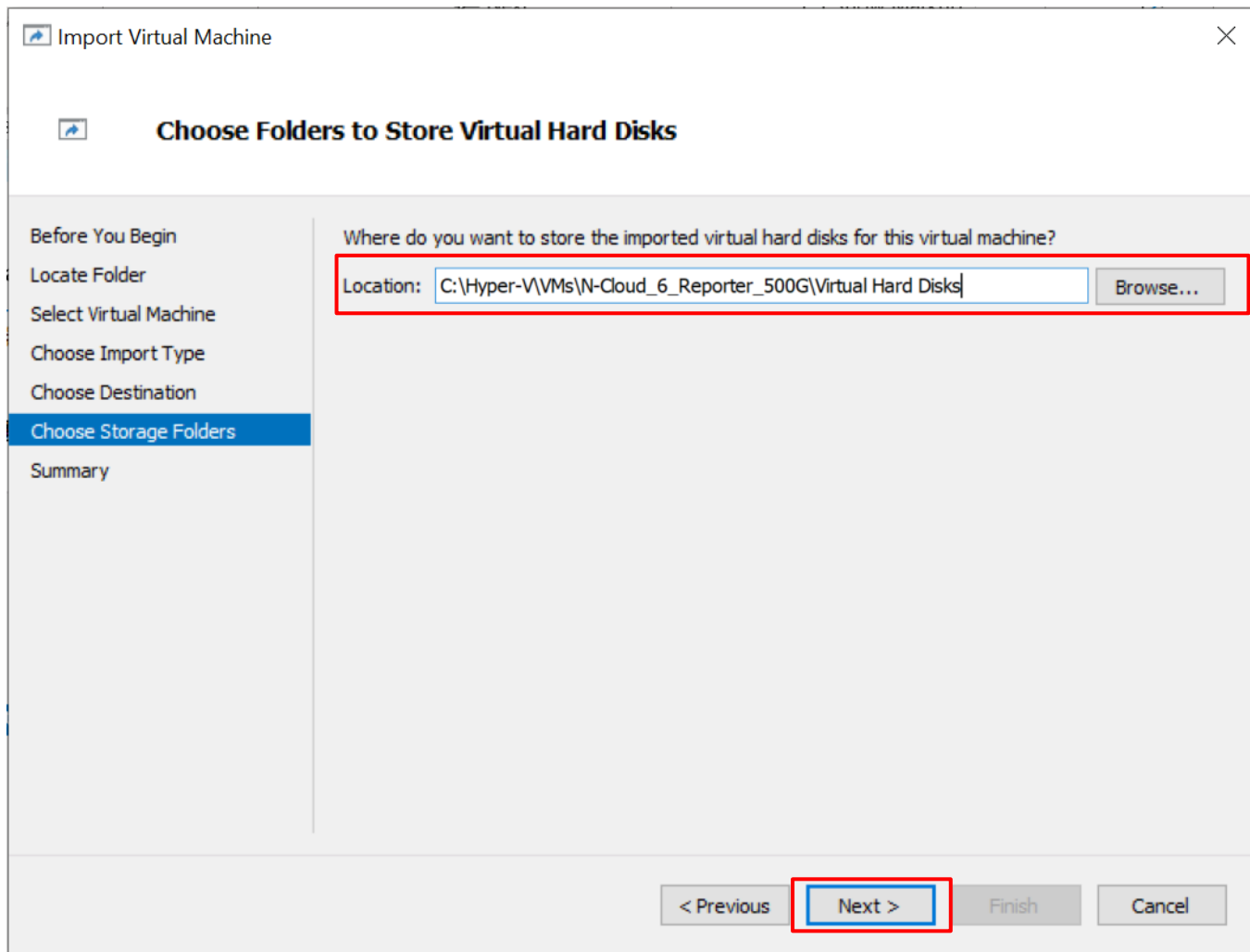
(6) Select “Copy the virtual machine” and click “Next.”



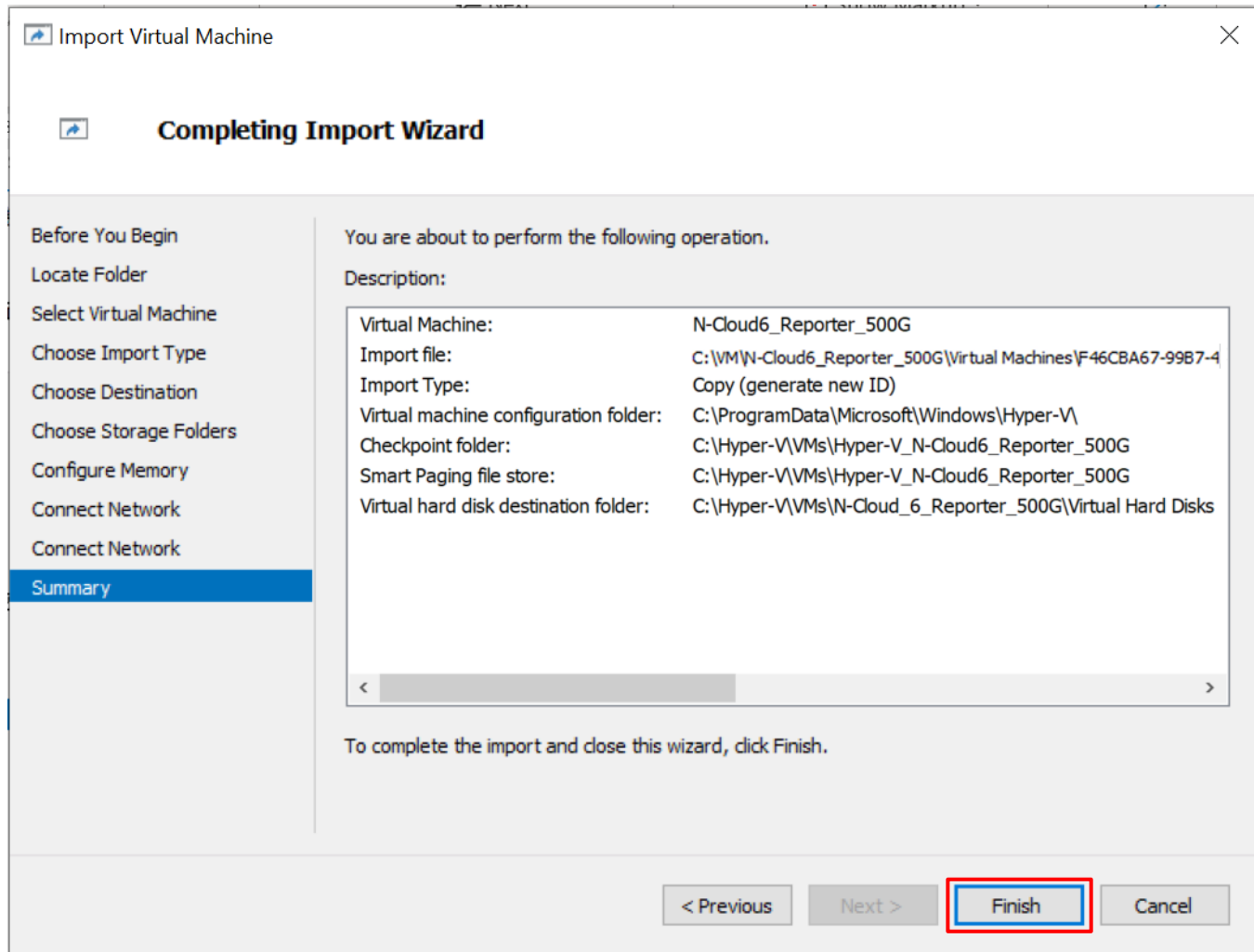
(7) Select paths for the virtual machine and click “Next.”

The screenshot shows the 'Import Virtual Machine' wizard window. The title bar reads 'Import Virtual Machine'. The main heading is 'Choose Folders for Virtual Machine Files'. On the left, a navigation pane lists steps: 'Before You Begin', 'Locate Folder', 'Select Virtual Machine', 'Choose Import Type', 'Choose Destination' (highlighted in blue), 'Choose Storage Folders', and 'Summary'. The main area contains the following text: 'You can specify new or existing folders to store the virtual machine files. Otherwise, the wizard imports the files to default Hyper-V folders on this computer, or to folders specified in the virtual machine configuration.' Below this, there is a checked checkbox labeled 'Store the virtual machine in a different location'. Three input fields are present, each with a 'Browse...' button: 'Virtual machine configuration folder:' with the path 'C:\ProgramData\Microsoft\Windows\Hyper-V\'; 'Checkpoint store:' with the path 'C:\Hyper-V\VMs\Hyper-V_N-Cloud6_Reporter_500G'; and 'Smart Paging folder:' with the path 'C:\Hyper-V\VMs\Hyper-V_N-Cloud6_Reporter_500G'. At the bottom, there are four buttons: '< Previous', 'Next >' (highlighted with a red box), 'Finish', and 'Cancel'.

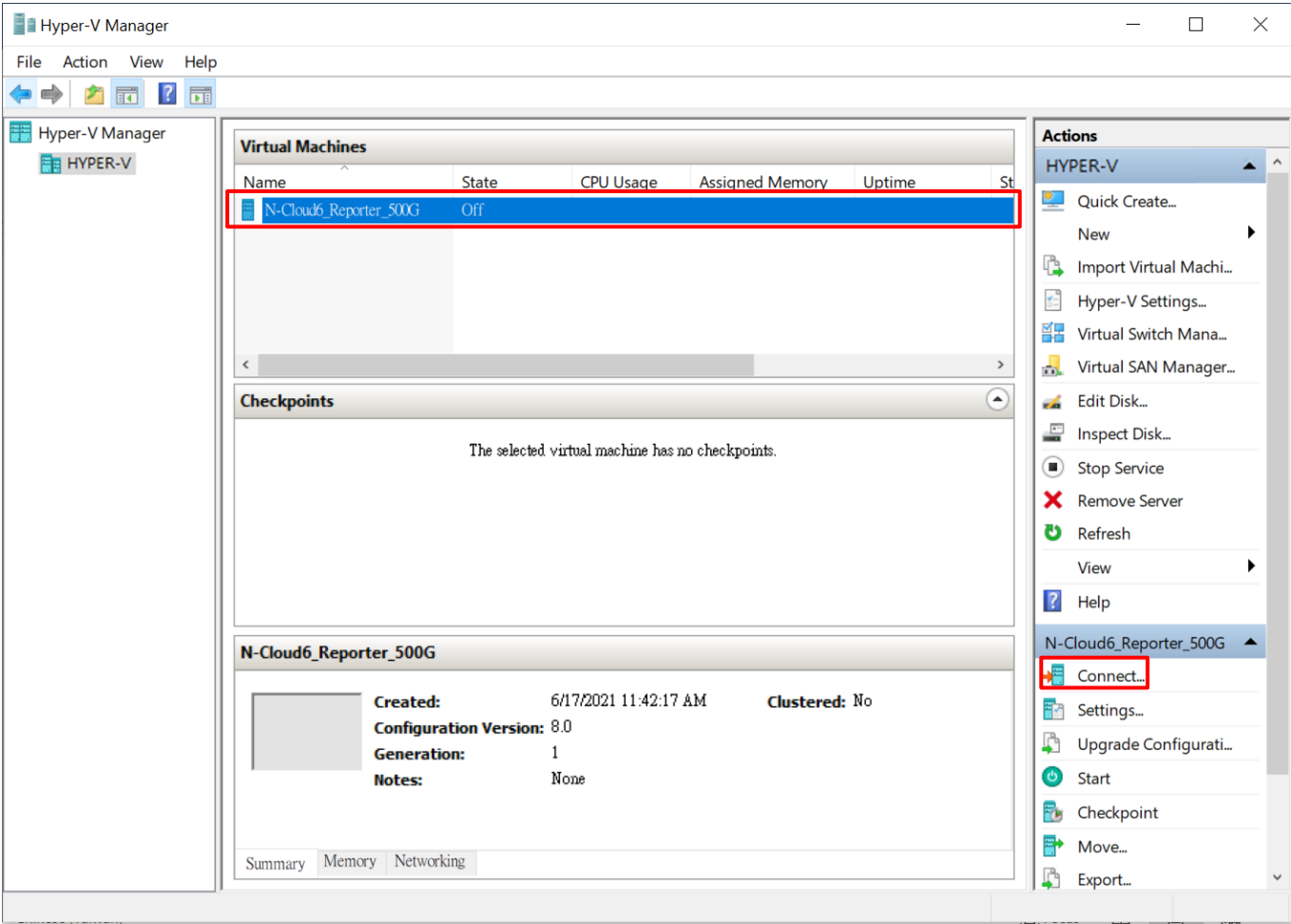
(8) Select a path for the virtual hard disks and click “Next.”



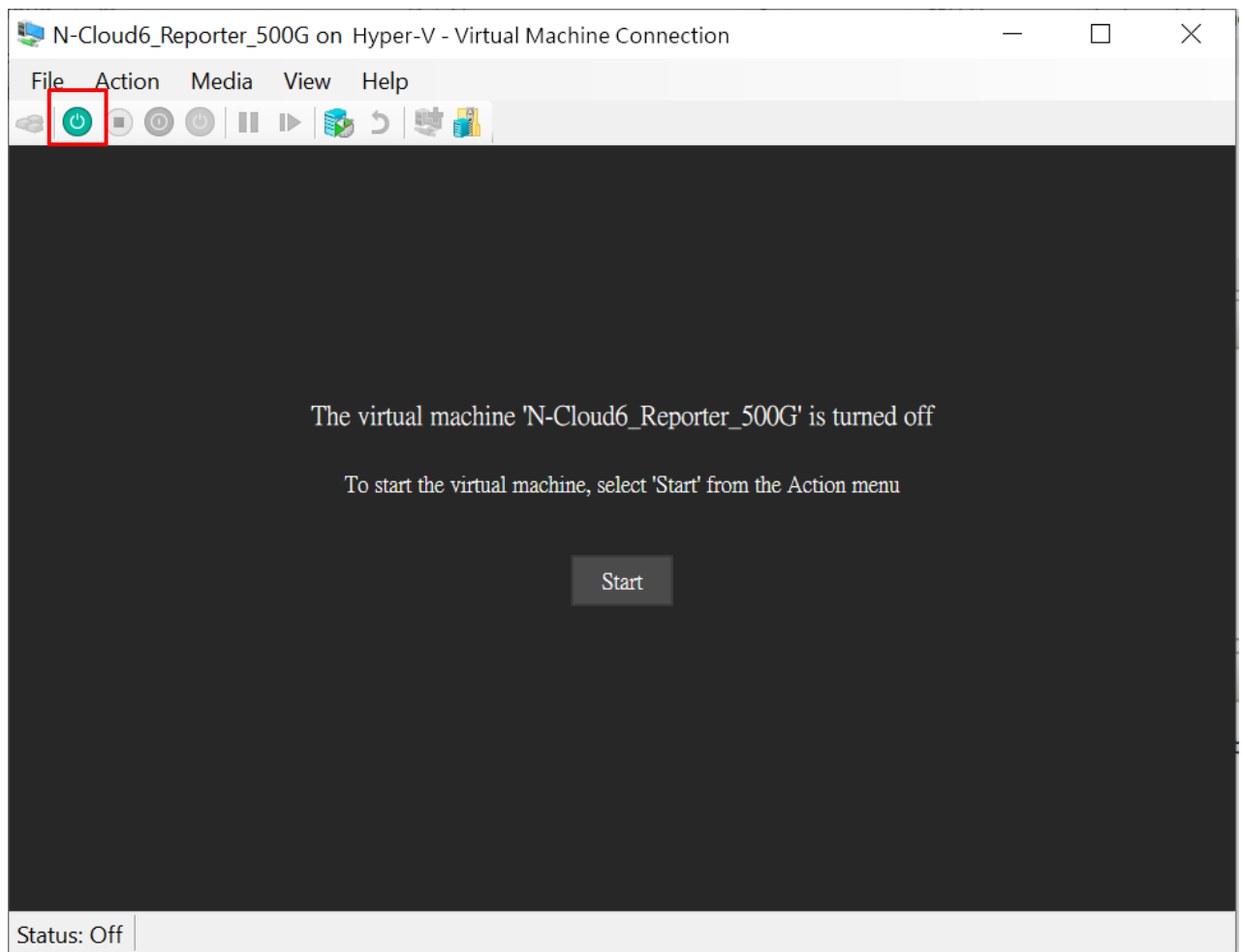
(9) Click "Finish."



(10) Select N-Reporter VM and click “Connect.”



(11) Click "Start."



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

```
localhost login: System is loaded to memory...
System is ready...
System IP is:
inet addr:192.168.2.1 Bcast:192.168.3.255 Mask:255.255.254.0

localhost login: npartner
Password:
Last login: Sun Aug 6 18:25:48 CST 2017 from ::1 on pts/7
Linux localhost 3.16.35 #1 SMP Tue May 31 14:14:35 CST 2016 x86_64
Welcome to CLI!

Reporter# _
```

(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 8.8.8.8
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
```

```
[root@KVM ~]# tar -xvf N-Cloud6_Reporter_500G_6.1.128.ova
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-Reporter-disk1.qcow2
```

```
[root@KVM ~]# qemu-img convert -f vmdk N-Cloud6_Reporter_500G_6.1.128-disk1.vmdk -O qcow2 N-Reporter-disk1.qcow2
[root@KVM ~]#
```

- (4) Check the format of the qcow2 file.

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



```
[root@KVM ~]# qemu-img info N-Reporter-disk1.qcow2
image: N-Reporter-disk1.qcow2
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 os | egrep -i debian
[root@KVM ~]# osinfo-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
```

```

[root@KVM ~]# 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

Starting install...
Domain creation completed.
You can restart your domain by running:
  virsh --connect qemu:///system start N-Reporter
[root@KVM ~]#

```

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.

```
# virsh list --all
```

```

[root@KVM ~]# virsh list --all
 Id   Name           State
-----
 -    N-Reporter     shut off

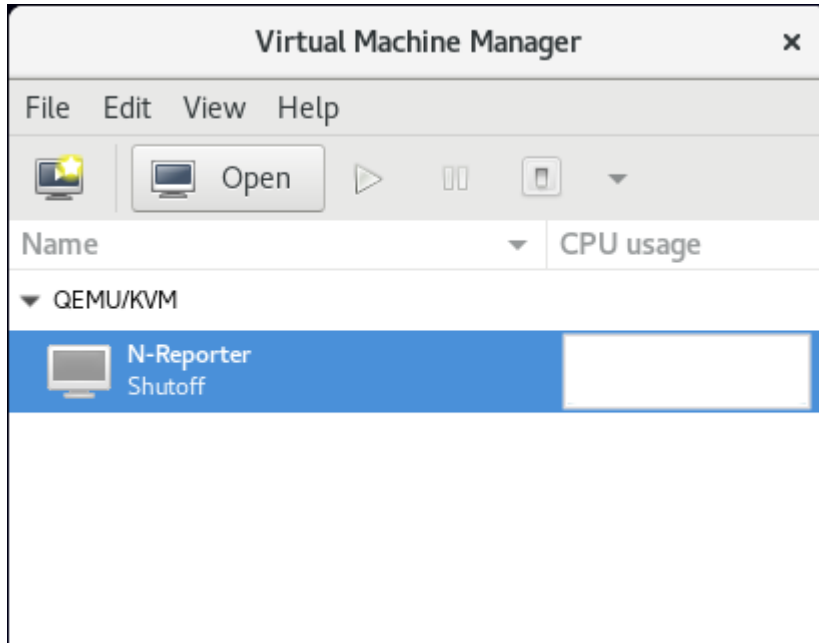
[root@KVM ~]#


```

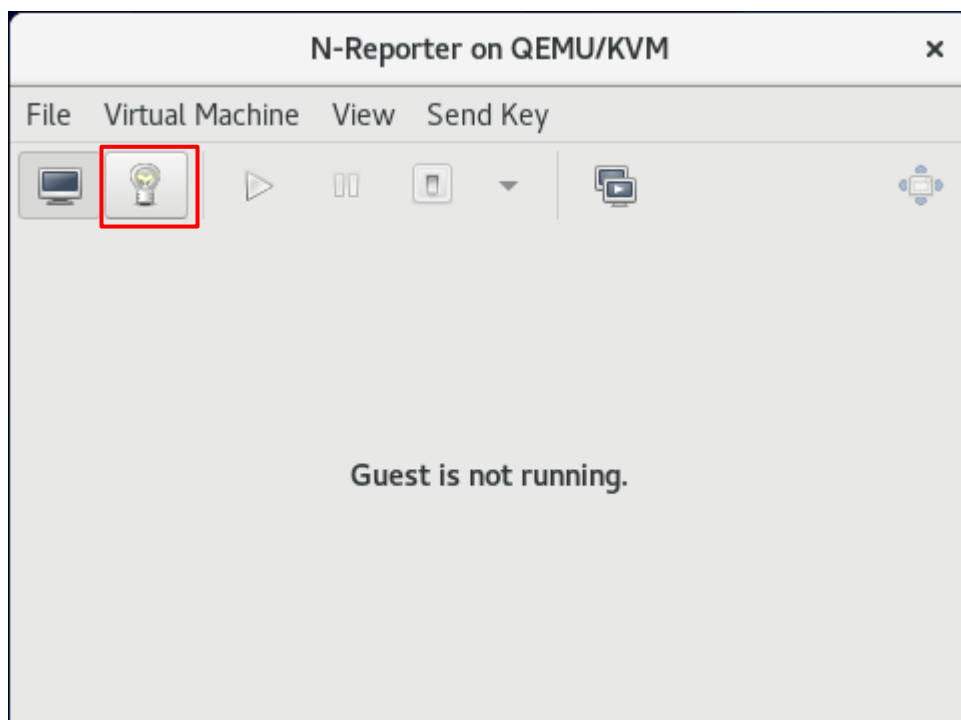
(8) Open “Virtual Machine Manager.”



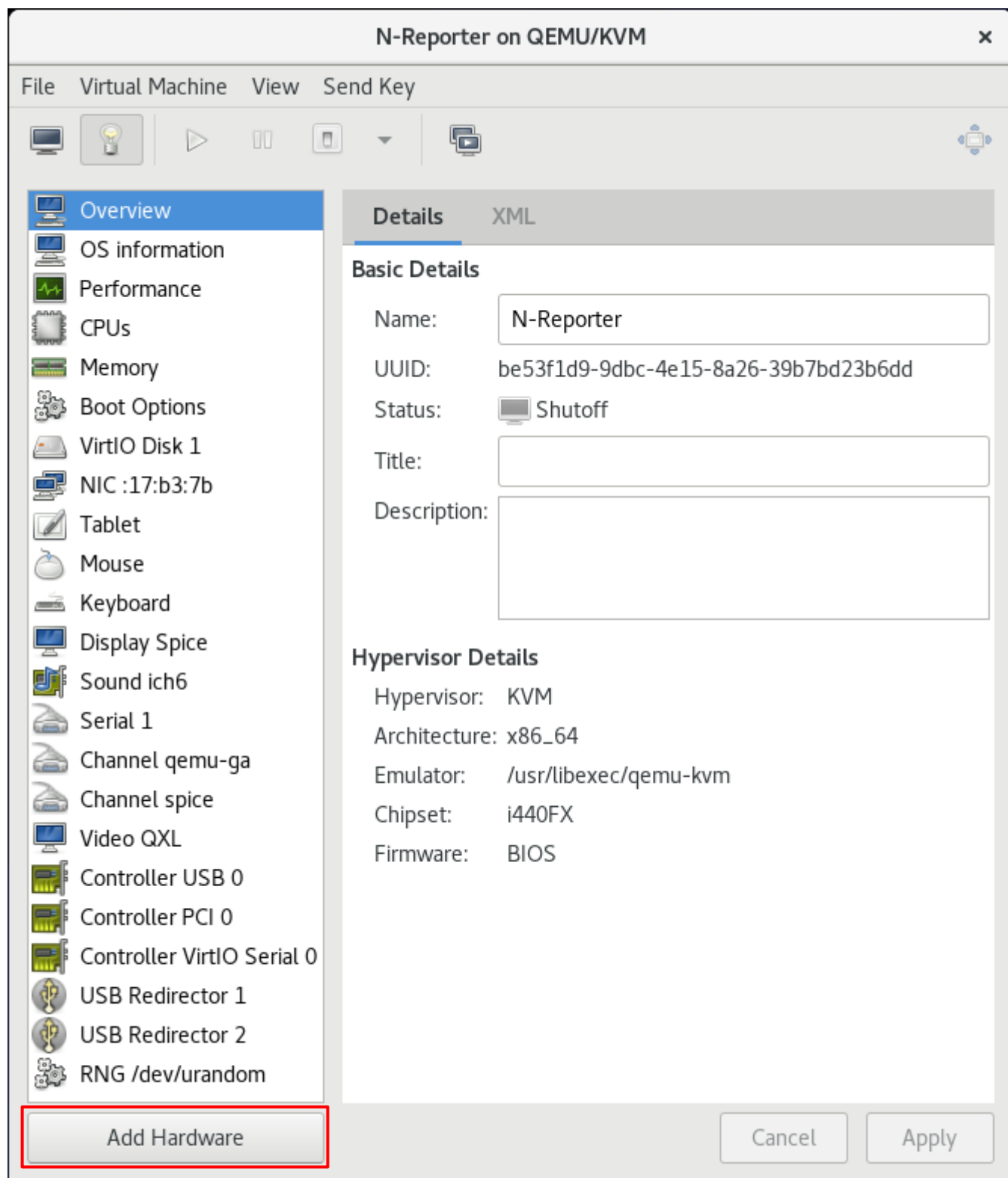
(9) Click “Open.”



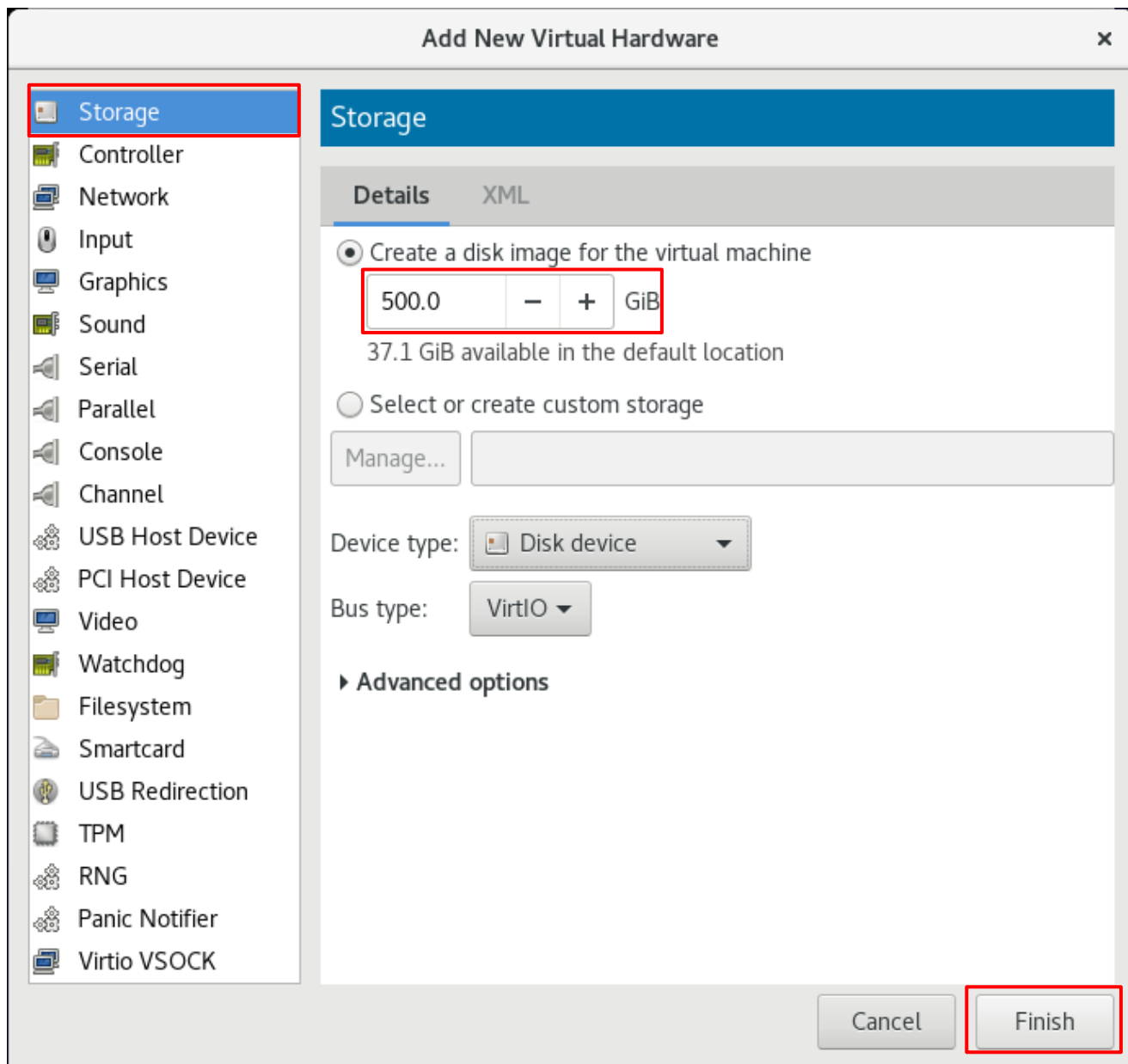
(10) Click  “virtual hardware details.”



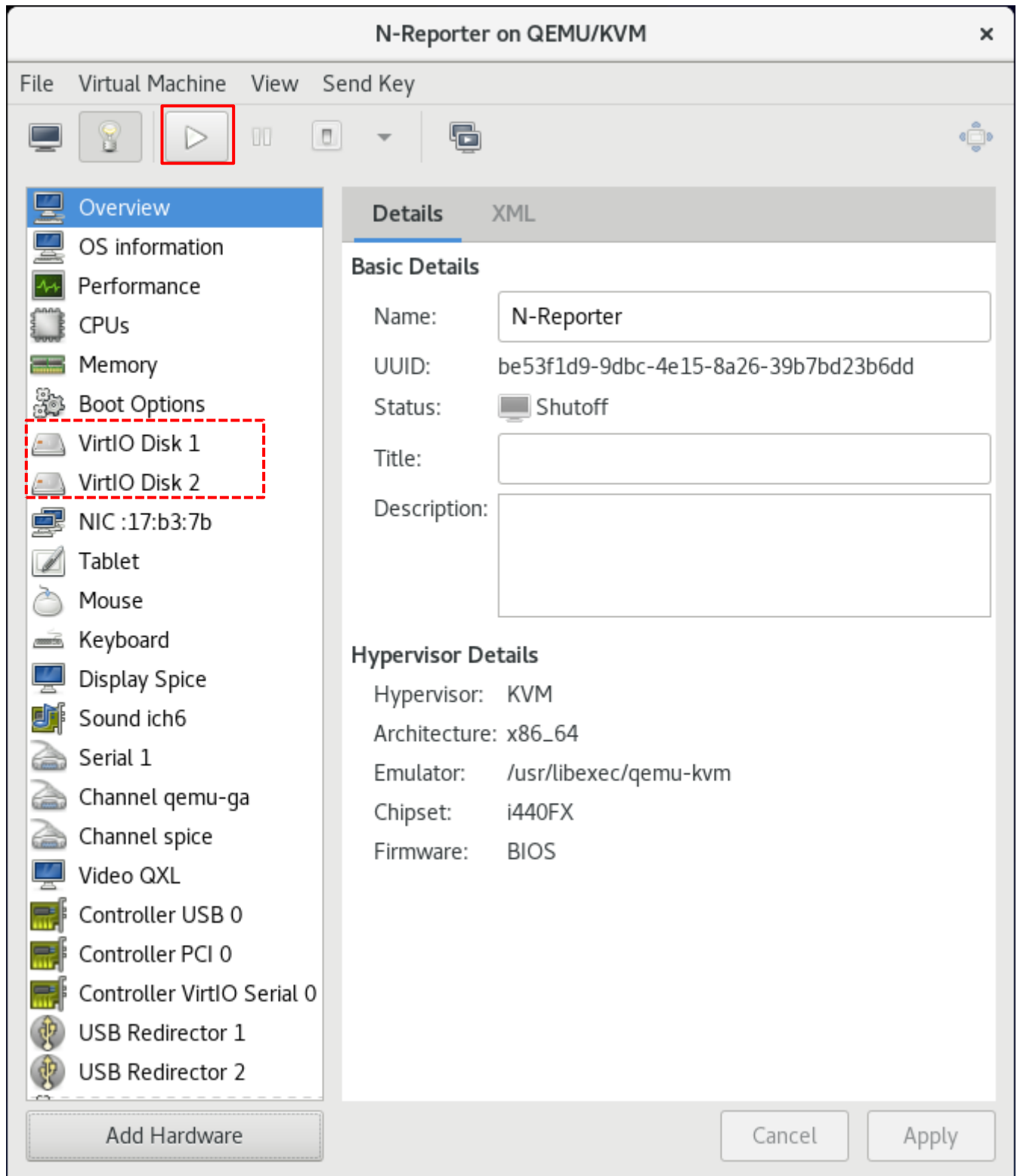
(11) Click “Add Hardware.”



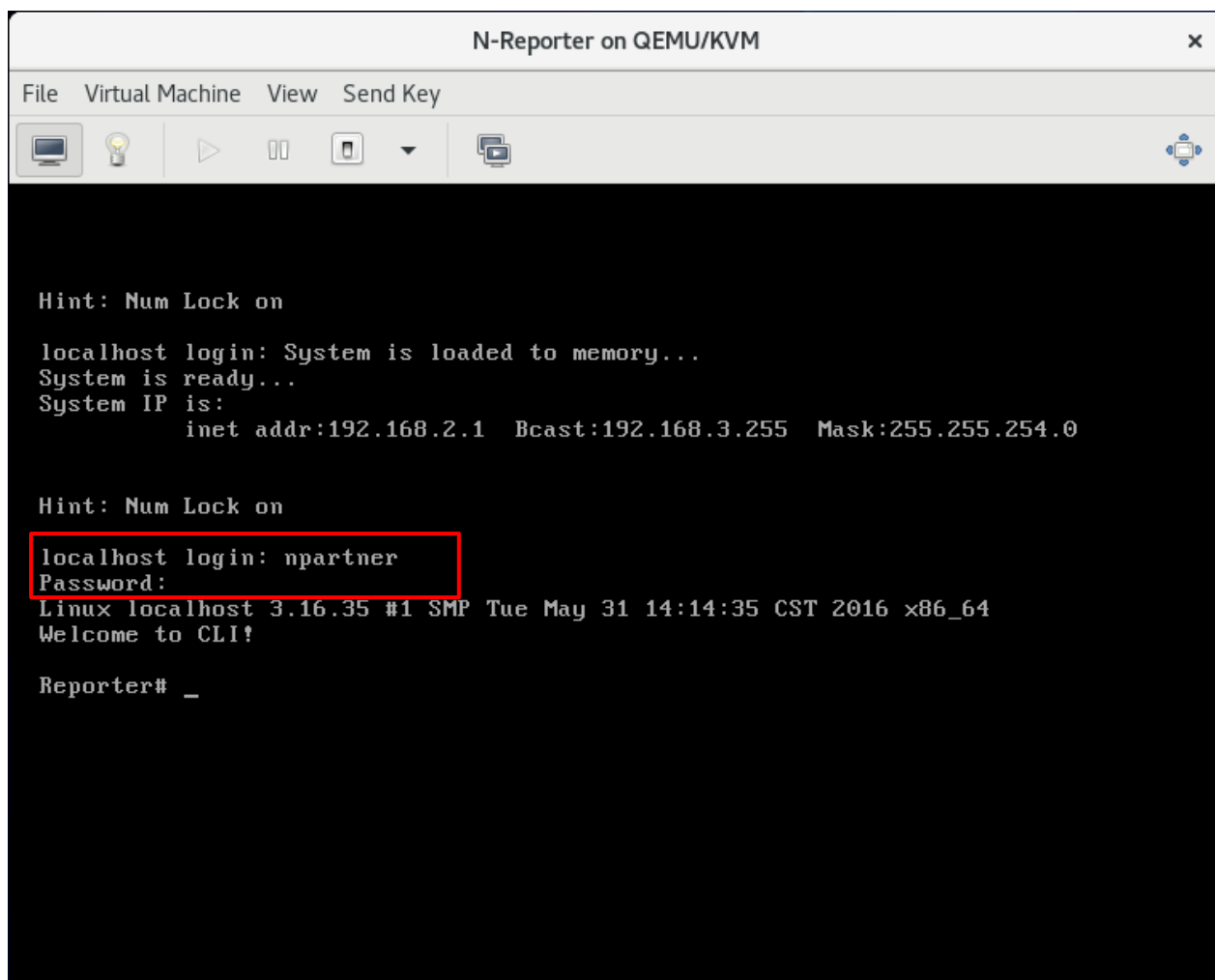
(12) Click “Storage,” set 500 GiB for storage, and click “Finish.”



(13) Two disks will show; click  “Power on the virtual machine.”



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



The screenshot shows a terminal window titled "N-Reporter on QEMU/KVM". The terminal output is as follows:

```
Hint: Num Lock on

localhost login: System is loaded to memory...
System is ready...
System IP is:
    inet addr:192.168.2.1 Bcast:192.168.3.255 Mask:255.255.254.0

Hint: Num Lock on
localhost login: npartner
Password:
Linux localhost 3.16.35 #1 SMP Tue May 31 14:14:35 CST 2016 x86_64
Welcome to CLI!

Reporter# _
```

(15) 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
ntp server on tock.stdtime.gov.tw
##### End #####
Reporter# _
```

(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]

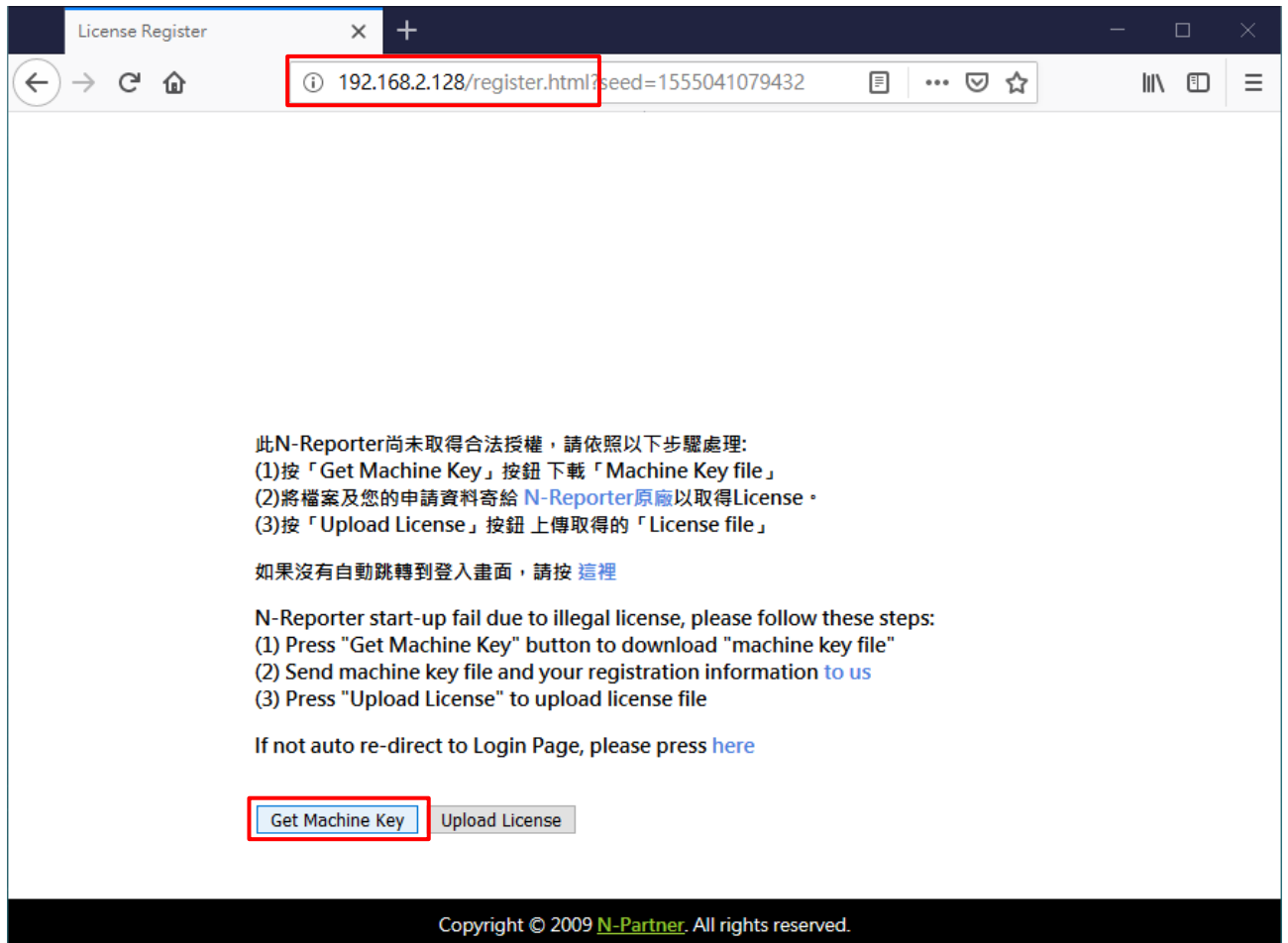
Please enter N-Reporter's IP address as the red part above.

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

4. Updating Process

4.1 License Update

- (1) Open a browser and enter <https://<N-Reporter IP>> to connect to license register page. Click “Get Machine Key.”



- (2) Download machine.dat and send it to se@npartnertech.com.
Please write as the format below:

Email format

Subject: N-Reporter Demo License Application

Contents:

Organization:

Applicant:

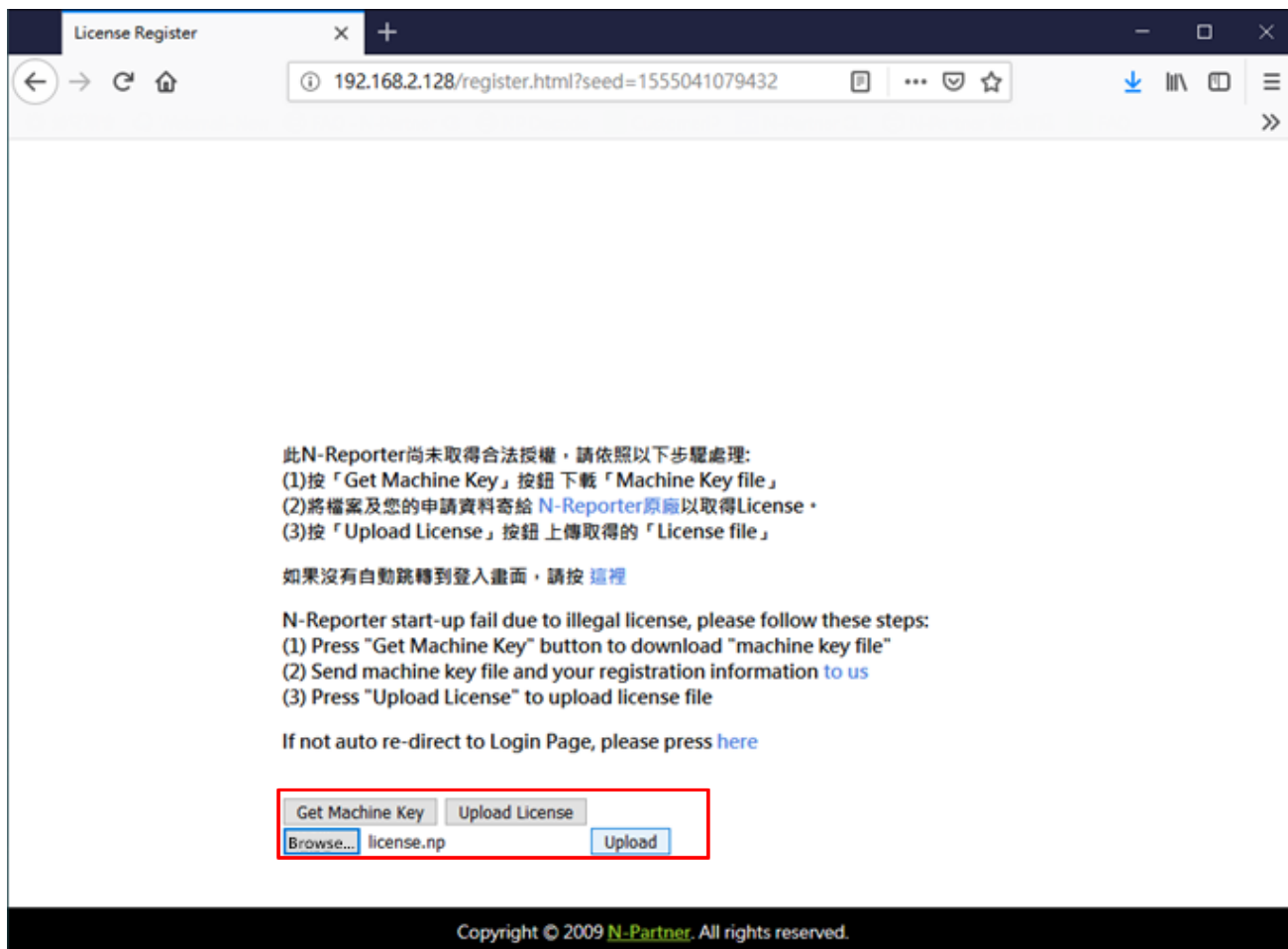
Email:

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.



(4) The system will then reboot automatically.

The screenshot shows a web browser window titled "License Register" with the address bar displaying "192.168.2.128/register.html?seed=1555041079432". A modal dialog box is centered on the screen with the text "Upload Successful and Restarting. Please login N-Reporter later" and a "確定" (OK) button highlighted with a red rectangle. The background page contains the following text:

此N-Reporter尚未取得
(1)按「Get Machine Key
(2)將檔案及您的申請資料
(3)按「Upload License」

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

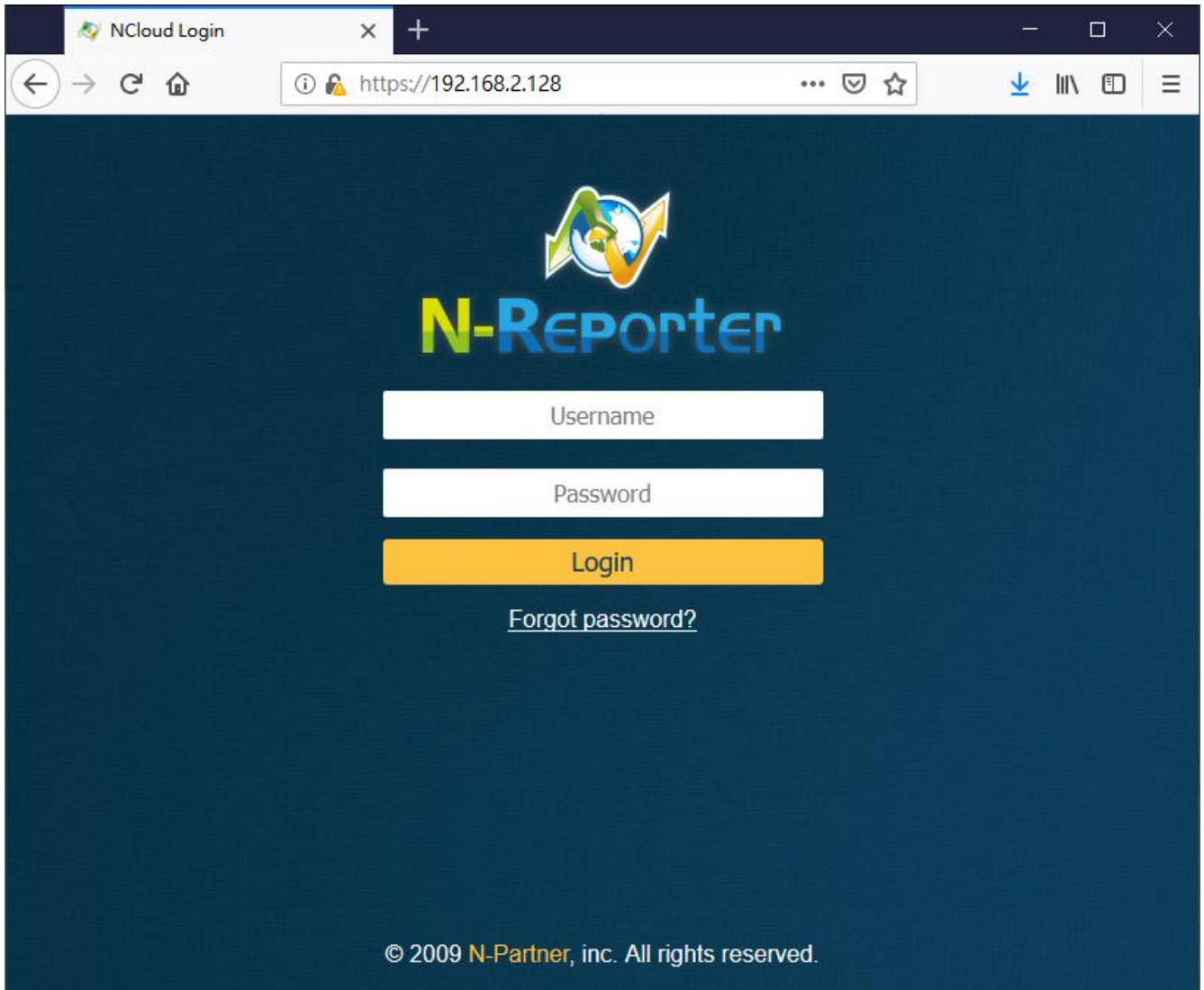
If not auto re-redirect to Login Page, please press [here](#)

System will finish reboot in 2 minutes. Page will be redirect to N-Reporter Login page, or click [here](#) to redirect.

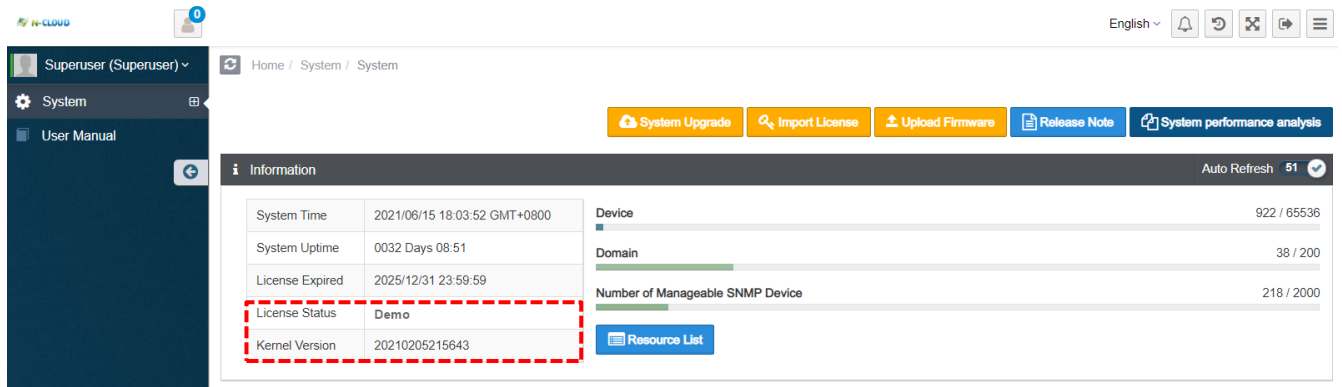
Copyright © 2009 [N-Partner](#). All rights reserved.

(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.

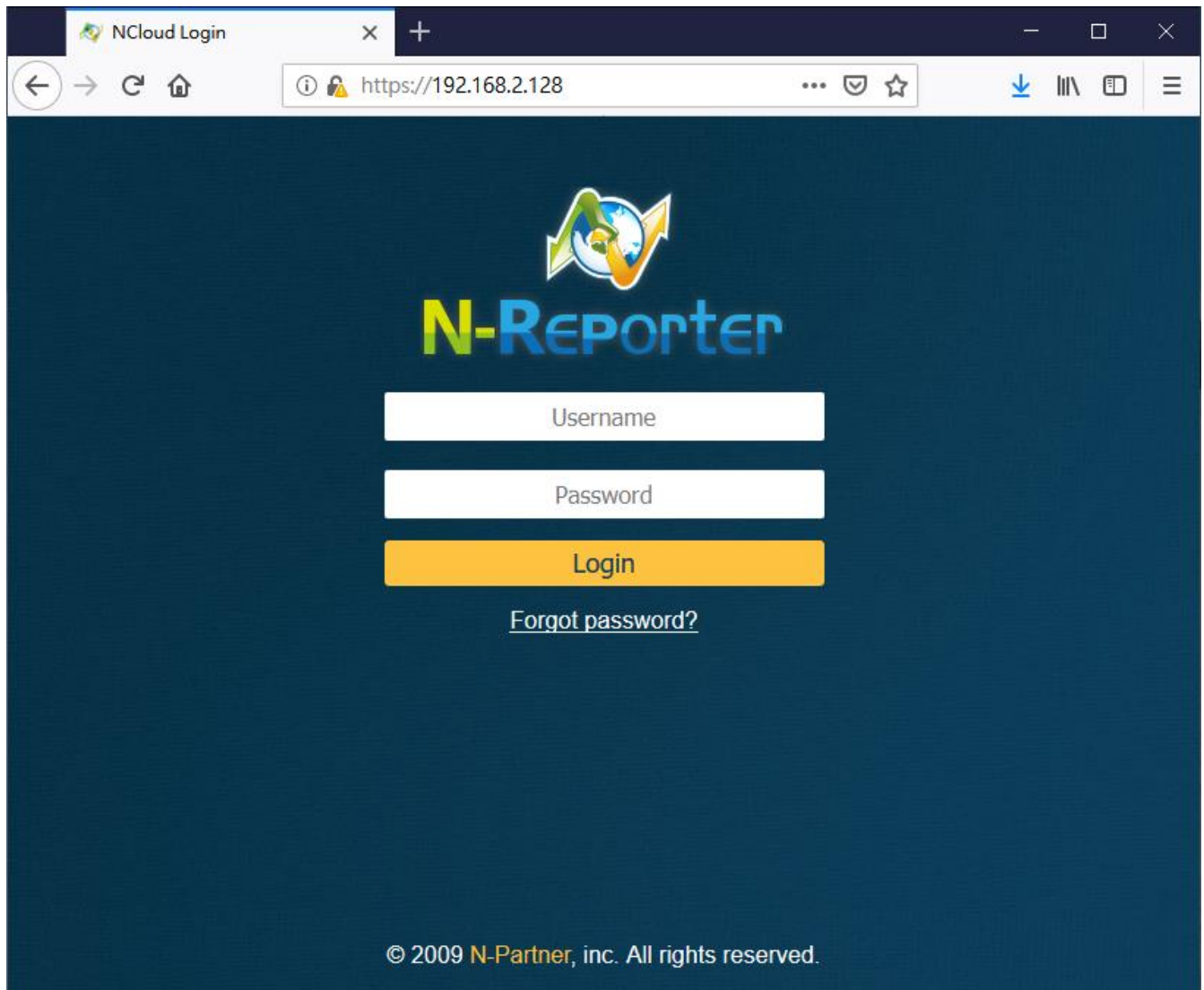


4.2 Firmware Upgrade

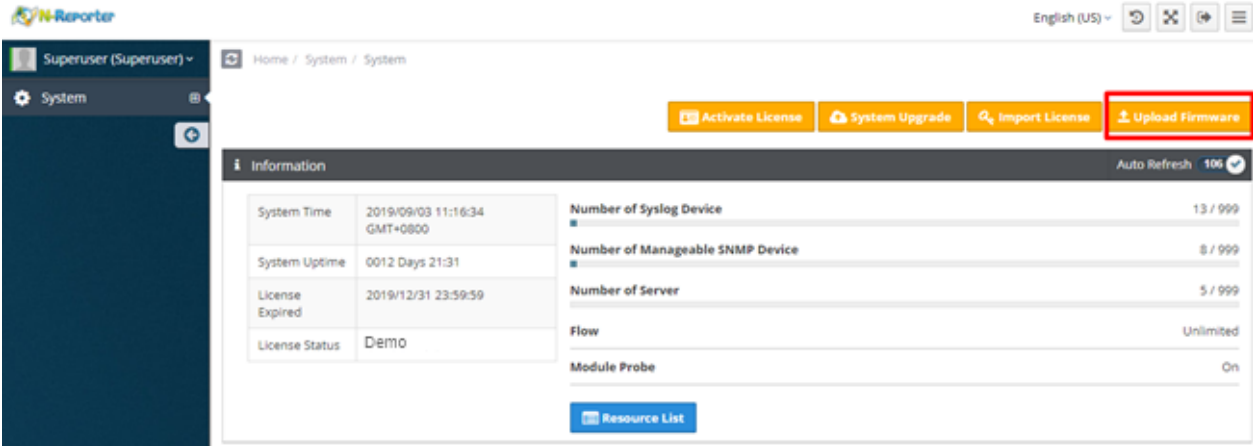
4.2.1 WEB

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

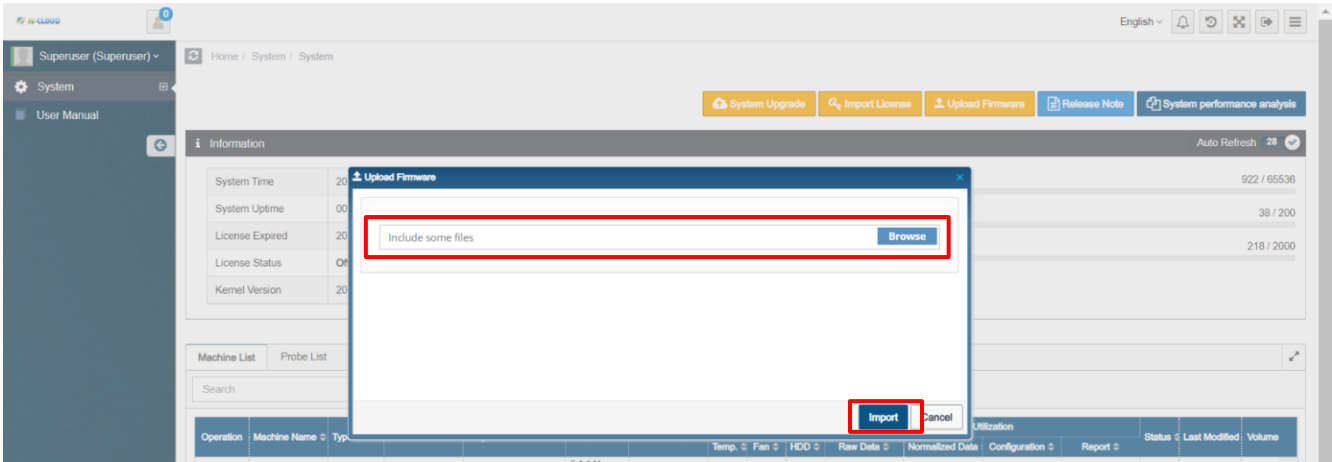
The default front end account/password is admin/admin; the default backend account/password is superuser/admin.



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



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



(4) An “Image upload” window will pop up, and the system will reboot.

(5) Check the firmware version.

The screenshot shows the N-Reporter web interface. The top navigation bar includes the N-Reporter logo, user information (Superuser), and language settings (English). The main content area is divided into sections. The 'Information' section displays system details such as System Time, System Uptime, License Expired, License Status, and Kernel Version. Below this, there are progress bars for 'Number of Syslog Device', 'Number of Manageable SNMP Device', and 'Number of Server'. The 'Machine List' section is active, showing a table with columns for Machine Name, Type, IP, Seq. No., Version, Serial Version, Hardware Monitoring, Disk Utilization, Status, Last Modified Time, and Volume. A red dashed box highlights the 'Version' column, which contains the value '0.1.123 (20210528-1056)'.

Machine Name	Type	IP	Seq. No.	Version	Serial Version	Temp.	Fan	HDD	Raw Data	Normalized Data	Configuration	Report	Status	Last Modified Time	Volume
Reporter (Reporter)	Reporter	127.0.0.1	NP-RPT-B-TW-LAB50	0.1.123 (20210528-1056)	0210318113544	●	●	●	■	■	■	■	●	2021/05/15 18:05	■

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 default 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]/y y
```

(4) Check whether the SSH Client can use ZMODEM to transfer file. If it can, enter “y.”

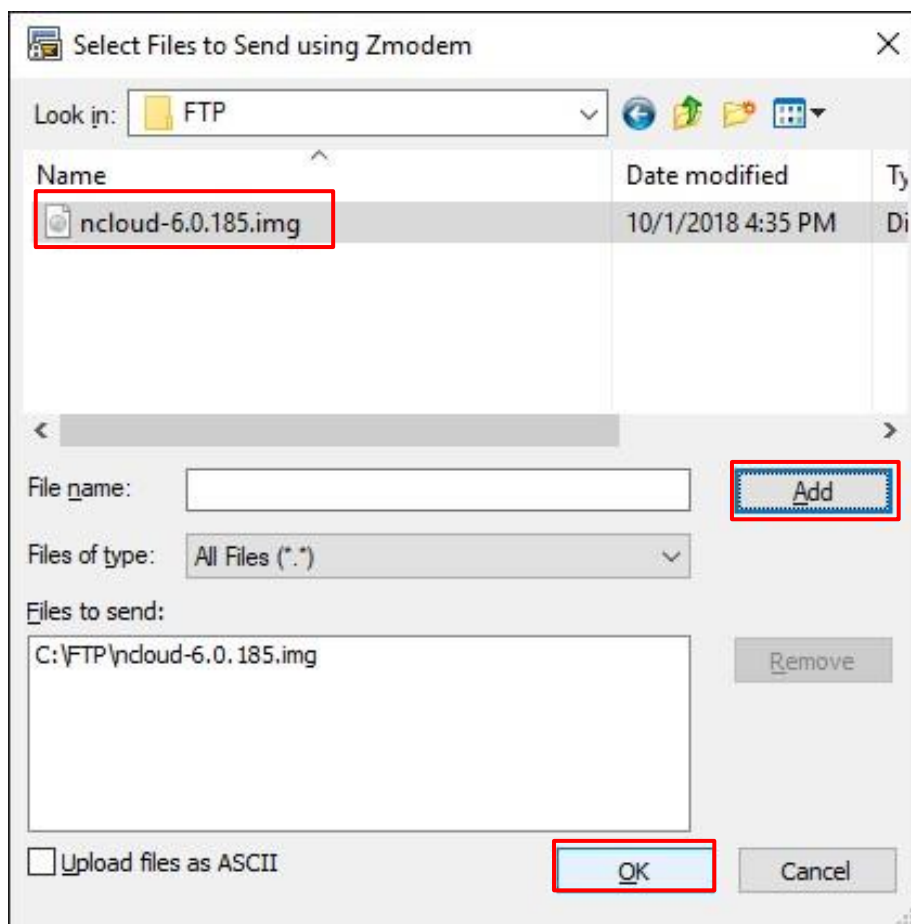
```
The transmission of image will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit.
Going to receive system image via zmodem. Please press y when ready. any key to abort. q to quit y
```

(5) If users use Xshell, enter “y.” Here, the client is SecureCRT, so enter “n.”

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

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

(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.

```
If the terminal stop responding after transmission completed, Please press [Enter] 3 times for proceed the post process.  
rz waiting to receive.  
Starting zmodem transfer. Press Ctrl+C to cancel.  
Transferring ncloud-6.1.068.img...  
100% 40269 KB 3097 KB/sec 00:00:13 0 Errors  
Verifying uploaded image ... OK
```

(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 default 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.”

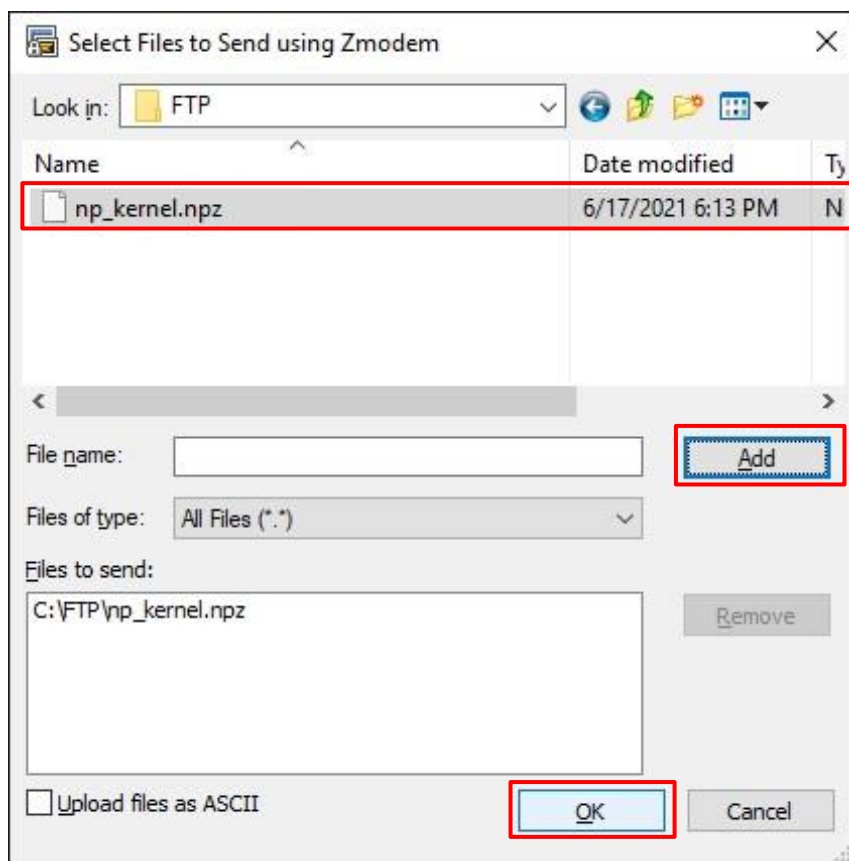
```
The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit.
Going to receive kernel via ZMODEM. Please press y when ready, any key to abort, q to quit [y]
```

- (5) If users use Xshell, enter “y.” Here, the client is SecureCRT, so enter “n.”

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

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

(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.
rz waiting to receive.
Starting zmodem transfer. Press Ctrl+C to cancel.
Transferring np_kernel.npz...
100% 384433 KB 14238 KB/sec 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.

```
*****-: Reporter kernel link warning : -*****  
kernel file link error
```

(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 default account/password is npartner/npartner.

- (1) View configuration file.

```
Reporter# show configure
```

```
Reporter# show configure
##### Current configuration #####
hostname Reporter
https-only on
interface eth0 192.168.1.184 255.255.248.0 gw 192.168.2.253
ip dns1 168.95.1.1
ntpdate tick.stdtime.gov.tw
##### End #####
Reporter#
```

- (2) Enter configuring 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 sniffing of IPv6 Flow traffic.

```
Reporter(config)# flow-ipv6 on
```

- (7) Set the number of N-Probe sniffing 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
```

```
Reporter# show configure
##### Current configuration #####
hostname Reporter
https-only on
interface eth0 192.168.1.184 255.255.248.0 gw 192.168.2.253
ip dns1 168.95.1.1
ntpdate tick.stdtime.gov.tw
flow-export 192.168.2.77 9001
flow-sampling 1
probe interface 1
probe on
flow-ipv6 on
##### End #####
Reporter#
```

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

VMware vSphere™
Client

All vSphere features introduced in vSphere 5.5 and beyond are available only through the vSphere Web Client. The traditional vSphere Client will continue to operate, supporting the same feature set as vSphere 5.0.

To directly manage a single host, enter the IP address or host name.
To manage multiple hosts, enter the IP address or name of a vCenter Server.

IP address / Name: 192.168.2.45

User name: root

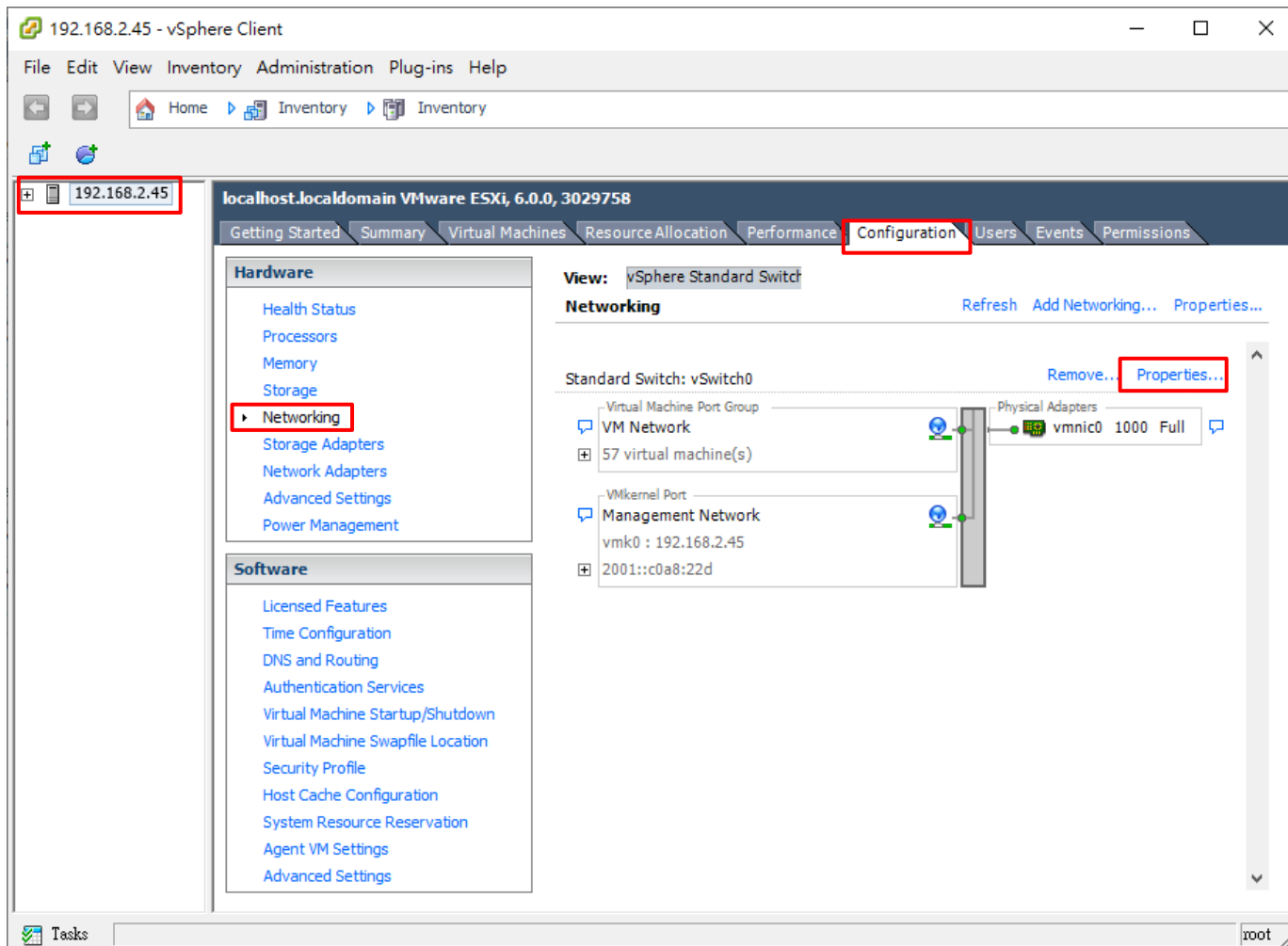
Password: *****

Use Windows session credentials

Login Close

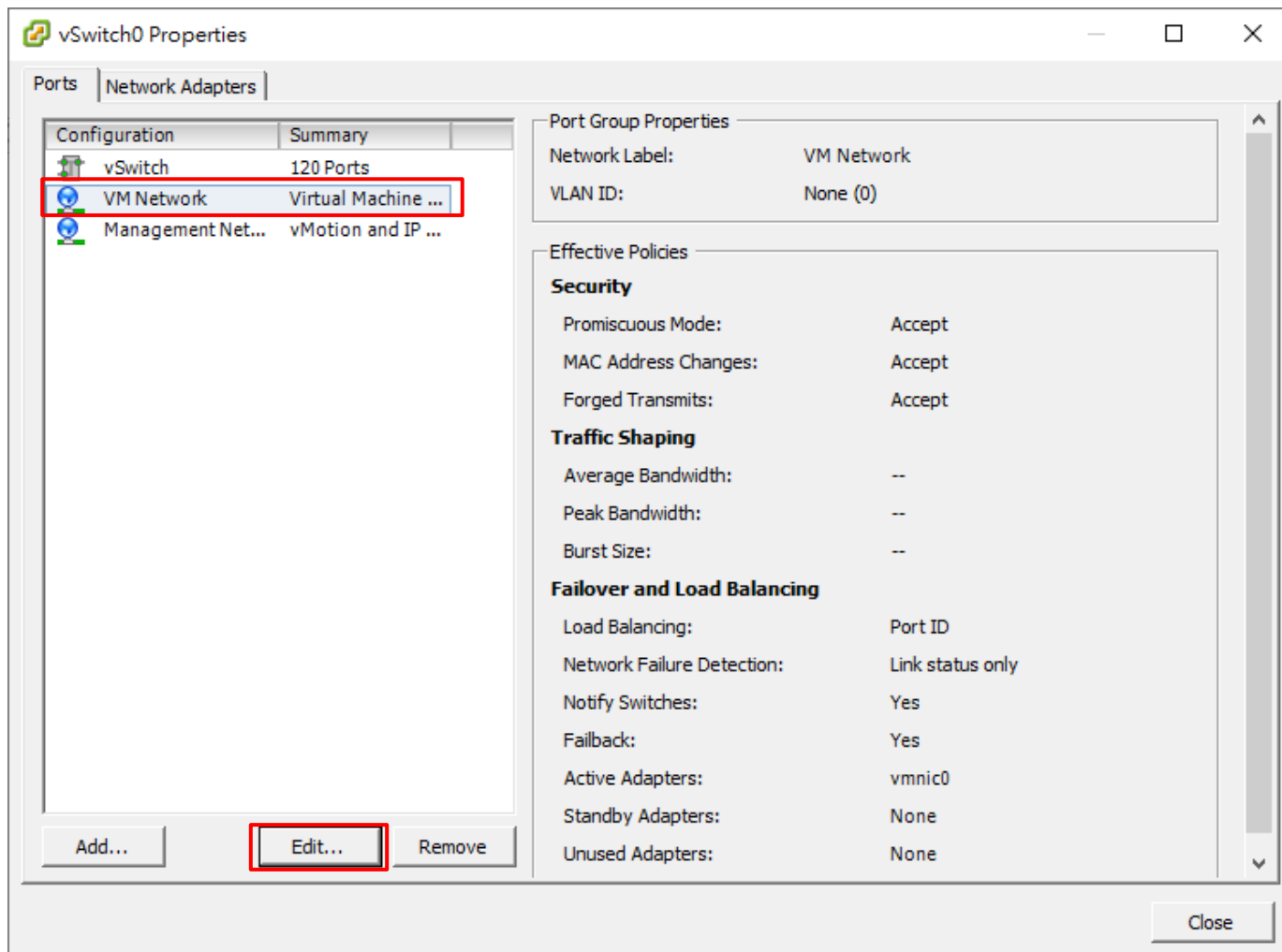
(2) Click the virtual machine.

Click “VMware ESXi host,” “Configuration,” “Networking,” and “vSwitch: ‘Properties’.”



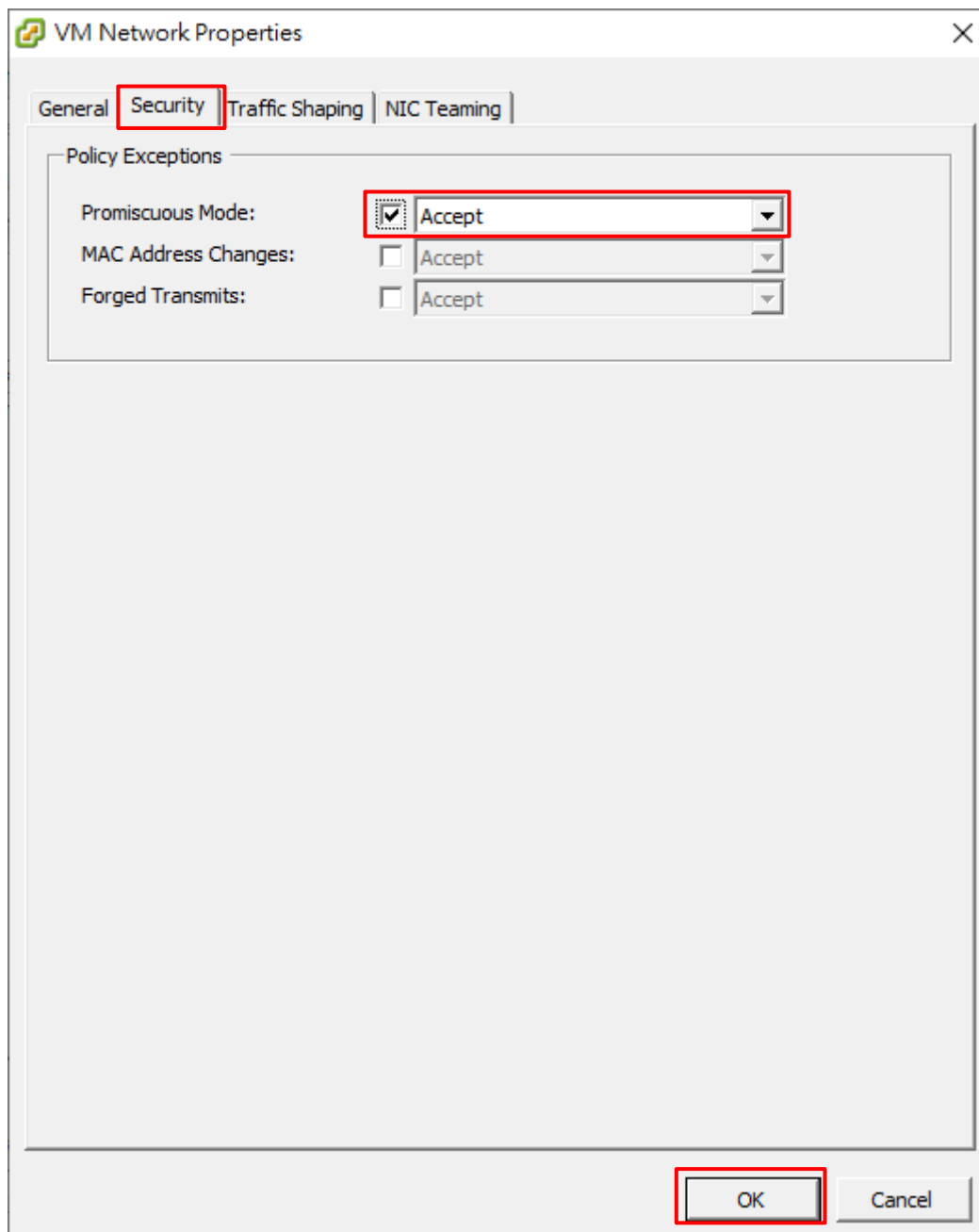
(3) Edit network settings.

Select "VM Network" and click "Edit."



(4) Activate Promiscuous Mode.

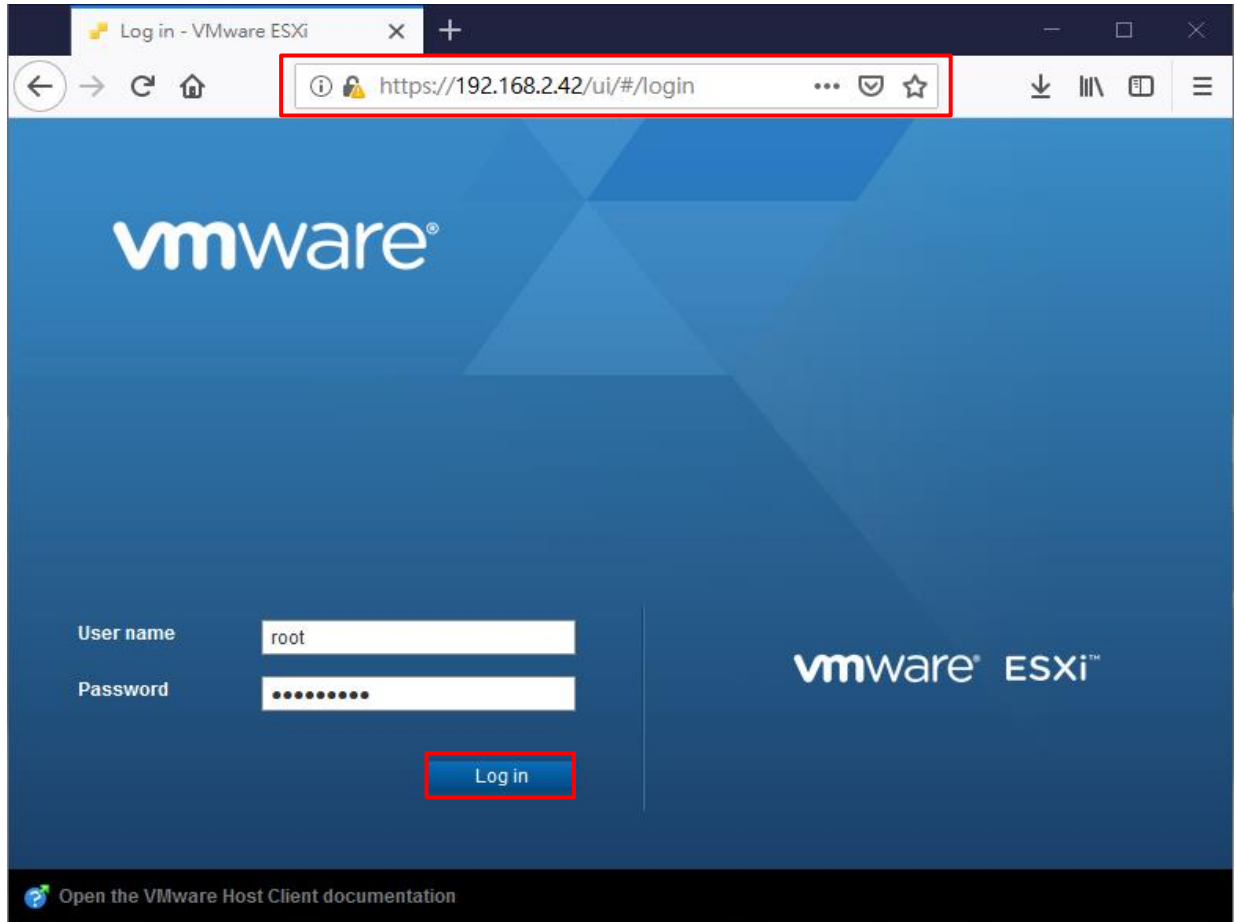
Go to "Security," select "Promiscuous Mode:" and select "Accept." Click "OK."



5.2.2 vSphere Web Client

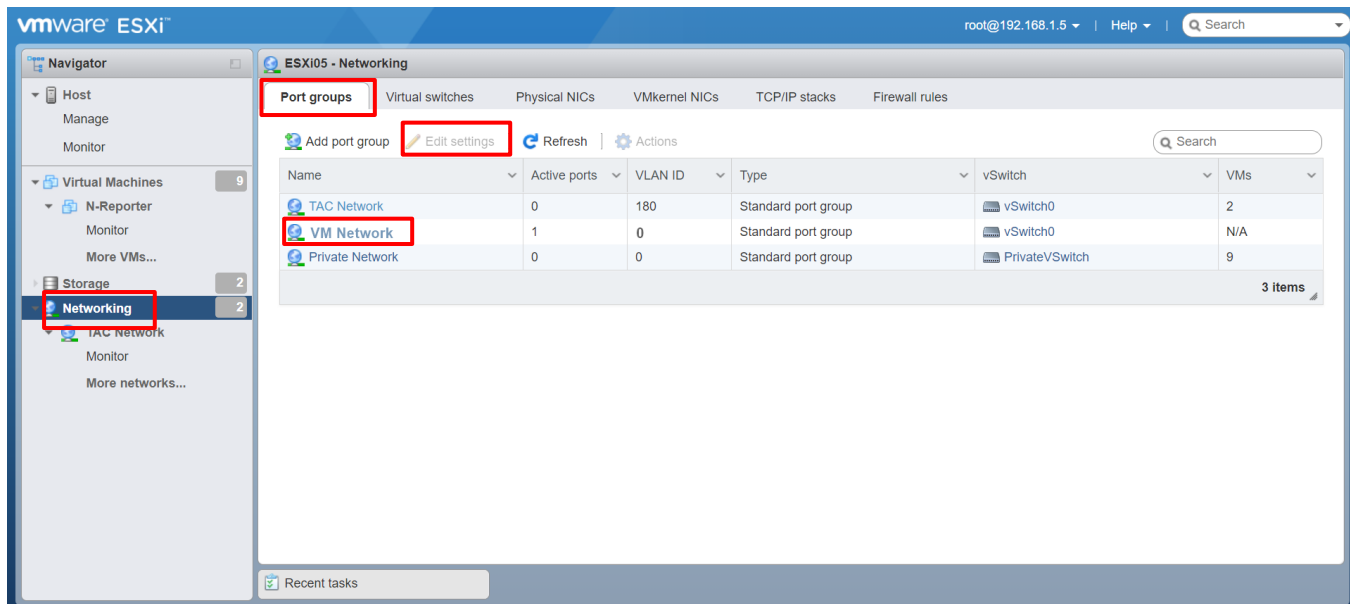
(1) Log in VMware ESXi.

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



(2) Edit network settings.

Click “Networking,” “Port groups,” “VM Network” and “Edit settings.”



(3) Activate Promiscuous Mode.

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

Edit port group - VM Network

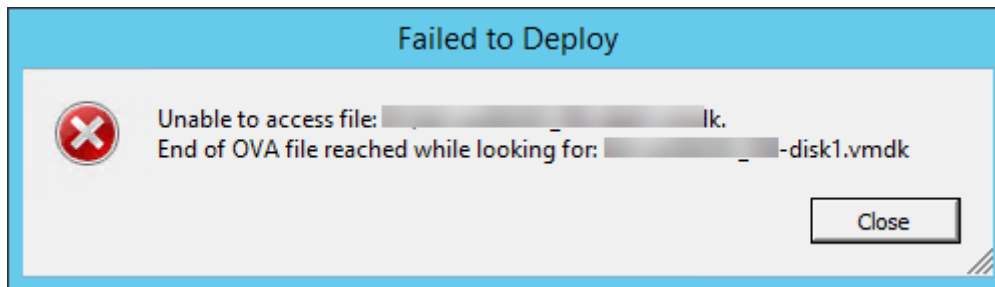
Name	VM Network
VLAN ID	0
Virtual switch	vSwitch0
Security	
Promiscuous mode	<input checked="" type="radio"/> Accept <input type="radio"/> Reject <input type="radio"/> Inherit from vSwitch
MAC address changes	<input type="radio"/> Accept <input type="radio"/> Reject <input checked="" type="radio"/> Inherit from vSwitch
Forged transmits	<input type="radio"/> Accept <input type="radio"/> Reject <input checked="" type="radio"/> Inherit from vSwitch
▶ NIC teaming	Click to expand
▶ Traffic shaping	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.



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>.

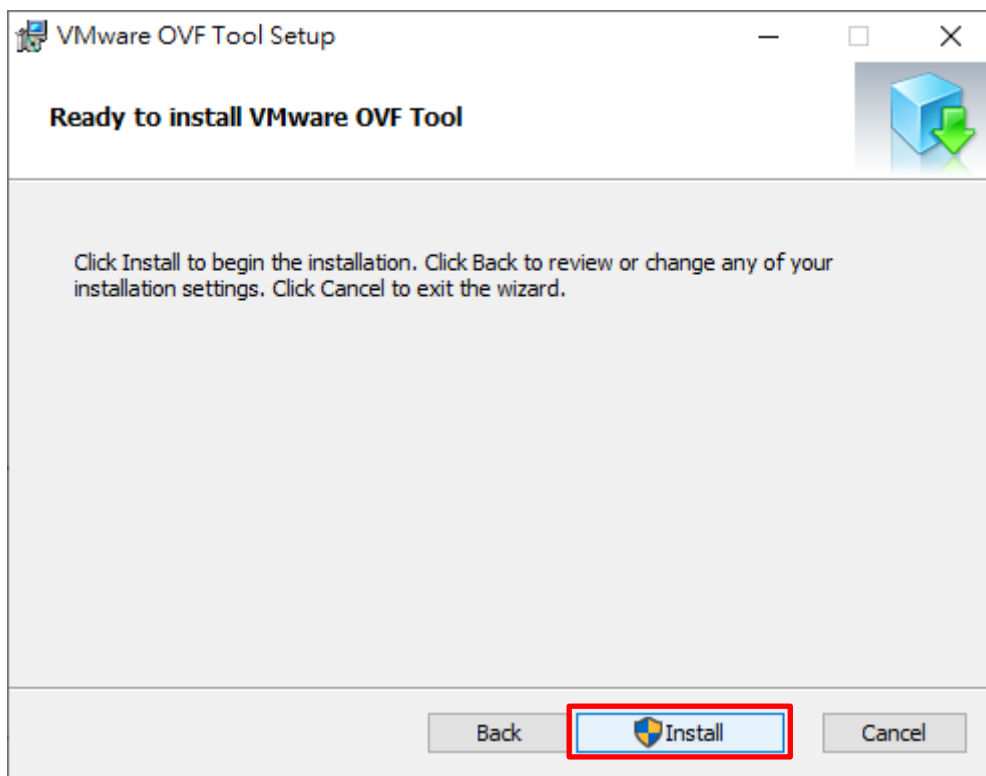
Download “VMware Open Virtualization Format Tool (ovftool)”; here, it’s ovftool - 4.3.0 Patch 1.

1 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.

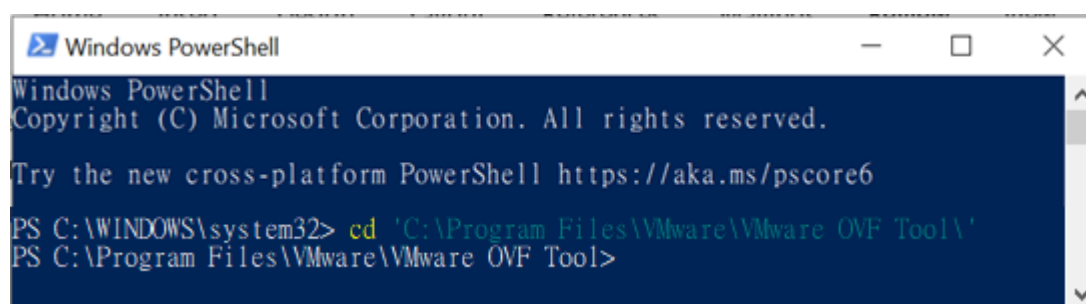


(3) Open "Windows PowerShell."



(4) Go to VMware OVF Tool folder.

```
PS C:\> cd 'C:\Program Files\VMware\VMware OVF Tool\'
```



(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.

```
PS C:\> .\ovftool.exe --acceptAllEulas --noSSLVerify --name=N-Reporter --diskMode=thick --datastore=datastore1 --net D:\N-Cloud6.0_Reporter_500G_v6.1.051_20191226.ova vi://root@192.168.2.46/
```

Enter VMware password

```
Username: root
Password: *****
```



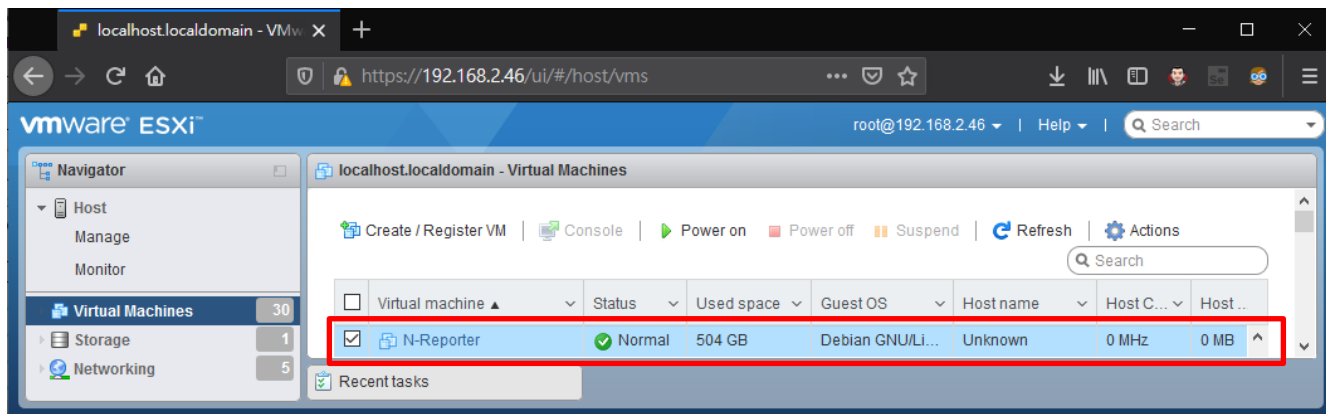
Enter N-Reporter OVA path and name as follows.

```
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/
```

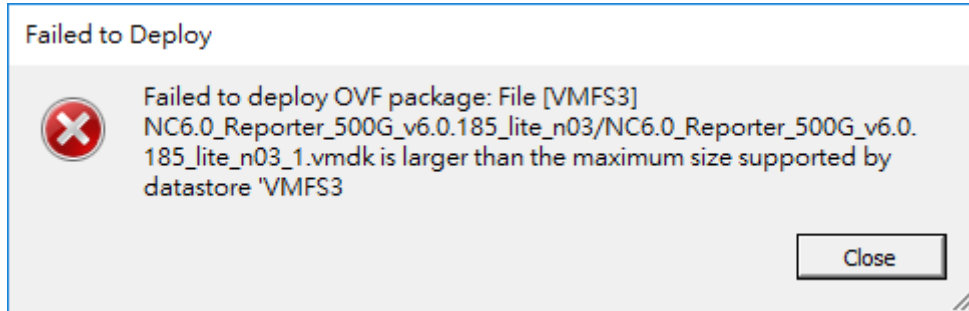
(6) Log in VMware ESXi, and there will be N-Reporter VM deployed with OVF Tool.



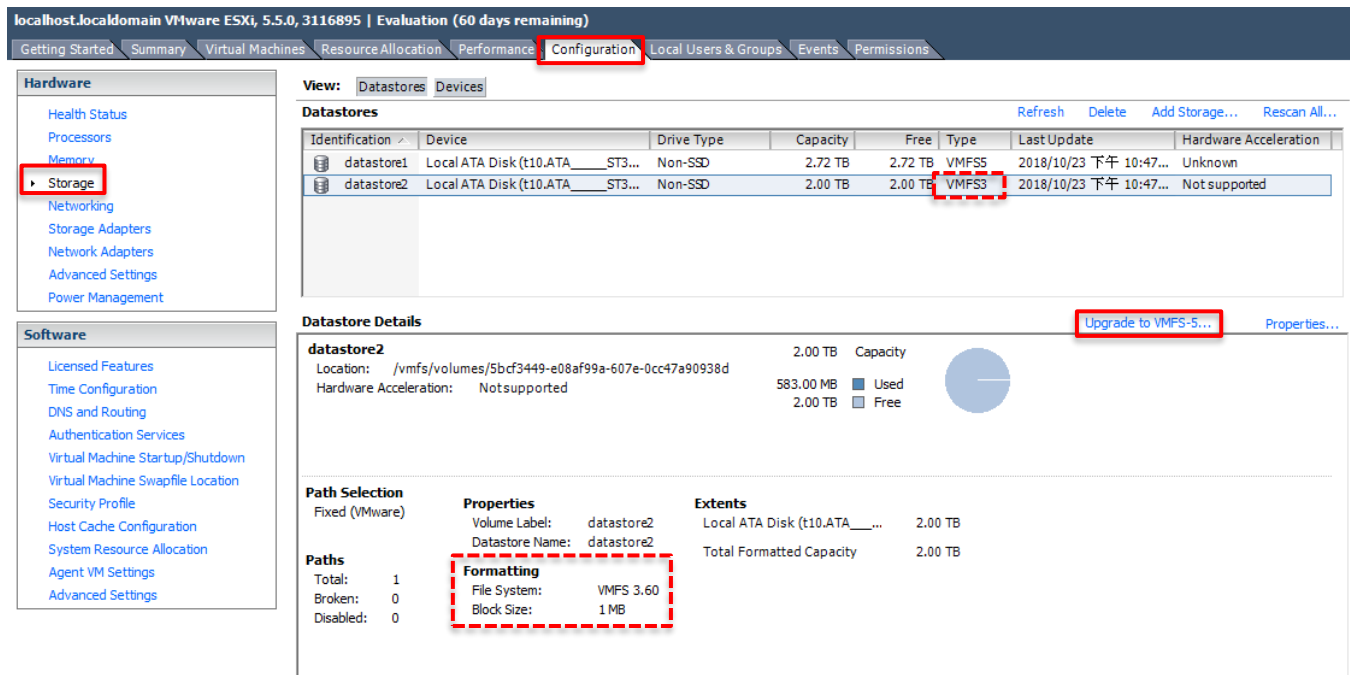
6.2 Larger than the Maximum Size Supported by Datastore

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

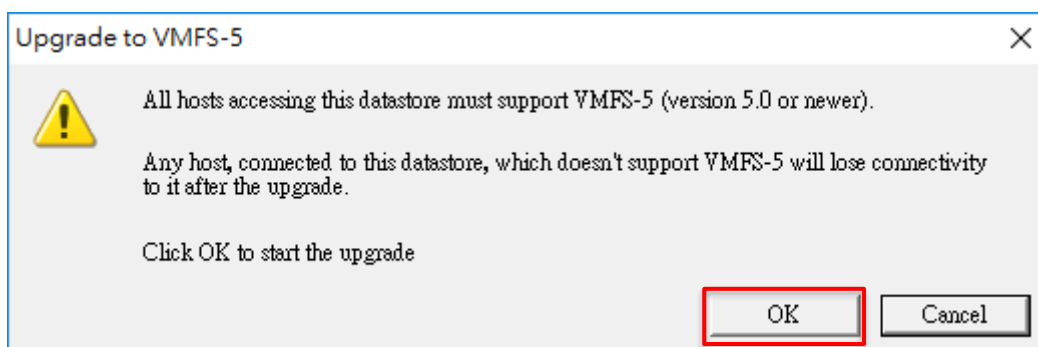
- (1) The size exceeds the maximum amount of VMFS3.



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



- (3) Click "OK" to start upgrading.



(4) Click “Rescan All” to check.

localhost.localdomain VMware ESXi, 5.5.0, 3116895 | Evaluation (60 days remaining)

Getting Started Summary Virtual Machines Resource Allocation Performance Configuration Local Users & Groups Events Permissions

Hardware

- Health Status
- Processors
- Memory
- Storage
- Networking
- Storage Adapters
- Network Adapters
- Advanced Settings
- Power Management

Software

- Licensed Features
- Time Configuration
- DNS and Routing
- Authentication Services
- Virtual Machine Startup/Shutdown
- Virtual Machine Swapfile Location
- Security Profile
- Host Cache Configuration
- System Resource Allocation
- Agent VM Settings
- Advanced Settings

View: Datasets Devices

Datasets Refresh Delete Add Storage... Rescan All...

Identification	Device	Drive Type	Capacity	Free	Type	Last Update	Hardware Acceleration
datastore1	Local ATA Disk (t10.ATA____ST3...	Non-SSD	2.72 TB	2.72 TB	VMFS5	2018/10/23 下午 10:47...	Unknown
datastore2	Local ATA Disk (t10.ATA____ST3...	Non-SSD	2.00 TB	1.99 TB	VMFS5	2018/10/23 下午 10:50...	Not supported

Datstore Details Properties...

datastore2 2.00 TB Capacity

Location: /vmfs/volumes/5bcf3449-e08af99a-607e-0cc47a90938d

Hardware Acceleration: Not supported

4.88 GB Used

1.99 TB Free

Path Selection Fixed (VMware)

Properties

Volume Label: datastore2

Datstore Name: datastore2

Extents

Local ATA Disk (t10.ATA____... 2.00 TB

Total Formatted Capacity 2.00 TB

Paths

Total: 1

Broken: 0

Disabled: 0

Formatting

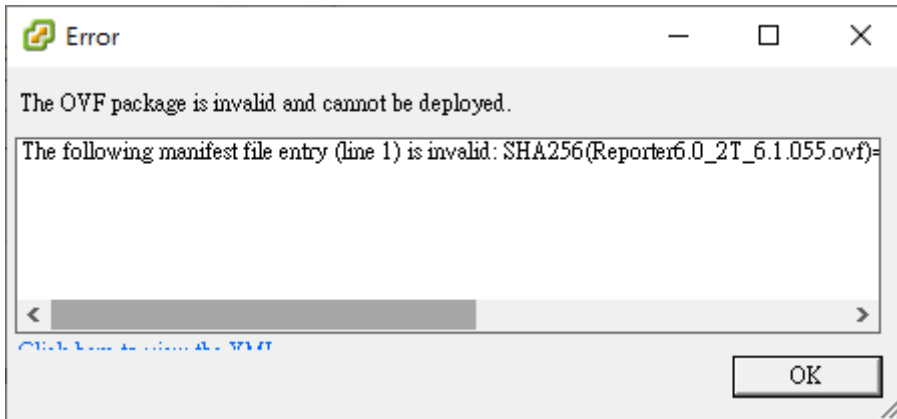
File System: VMFS 5.60

Block Size: 1 MB

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.

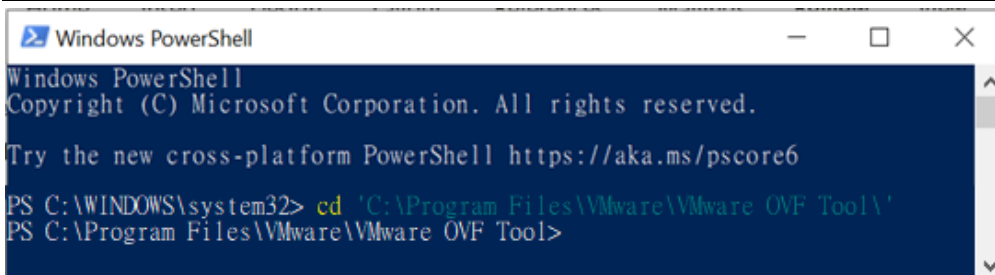


(2) Open "Windows PowerShell."



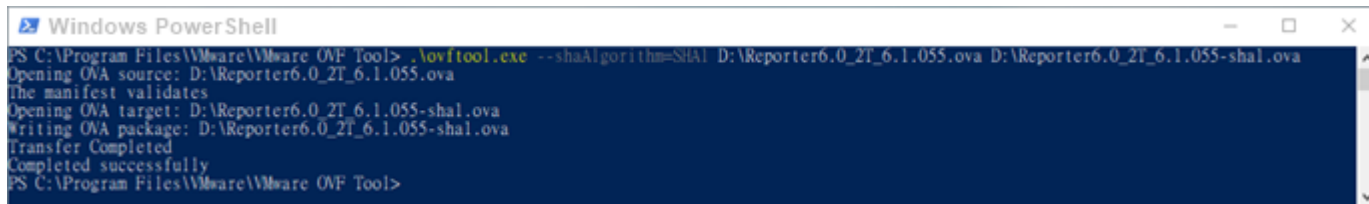
(3) Go to VMware OVF Tool folder.

```
PS C:\> cd 'C:\Program Files\VMware\VMware OVF Tool\'
```



(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  
D:\Reporter6.0_2T_6.1.055-sha1.ova
```



```
Windows PowerShell  
PS C:\Program Files\VMware\VMware OVF Tool> .\ovftool.exe --shaAlgorithm=SHA1 D:\Reporter6.0_2T_6.1.055.ova D:\Reporter6.0_2T_6.1.055-sha1.ova  
Opening OVA source: D:\Reporter6.0_2T_6.1.055.ova  
The manifest validates  
Opening OVA target: D:\Reporter6.0_2T_6.1.055-sha1.ova  
Writing OVA package: D:\Reporter6.0_2T_6.1.055-sha1.ova  
Transfer Completed  
Completed successfully  
PS C:\Program Files\VMware\VMware OVF Tool>
```

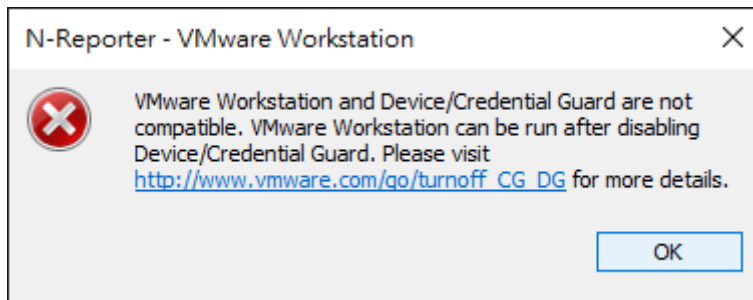
Enter N-Reporter OVA path and N-Reporter OVA destination path as follows.

```
D:\Reporter6.0_2T_6.1.055.ova D:\Reporter6.0_2T_6.1.055-sha1.ova
```

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.

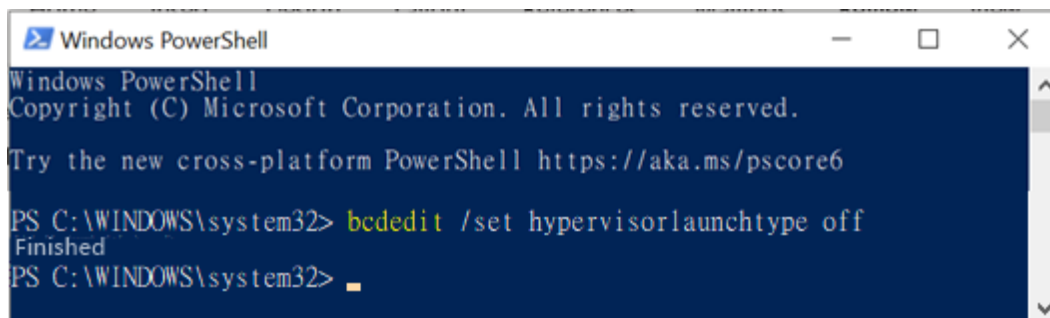


- (2) Open "Windows PowerShell."



- (3) Set Hyper-V off.

```
PS C:\> bcdedit /set hypervisorlaunchtype off
```



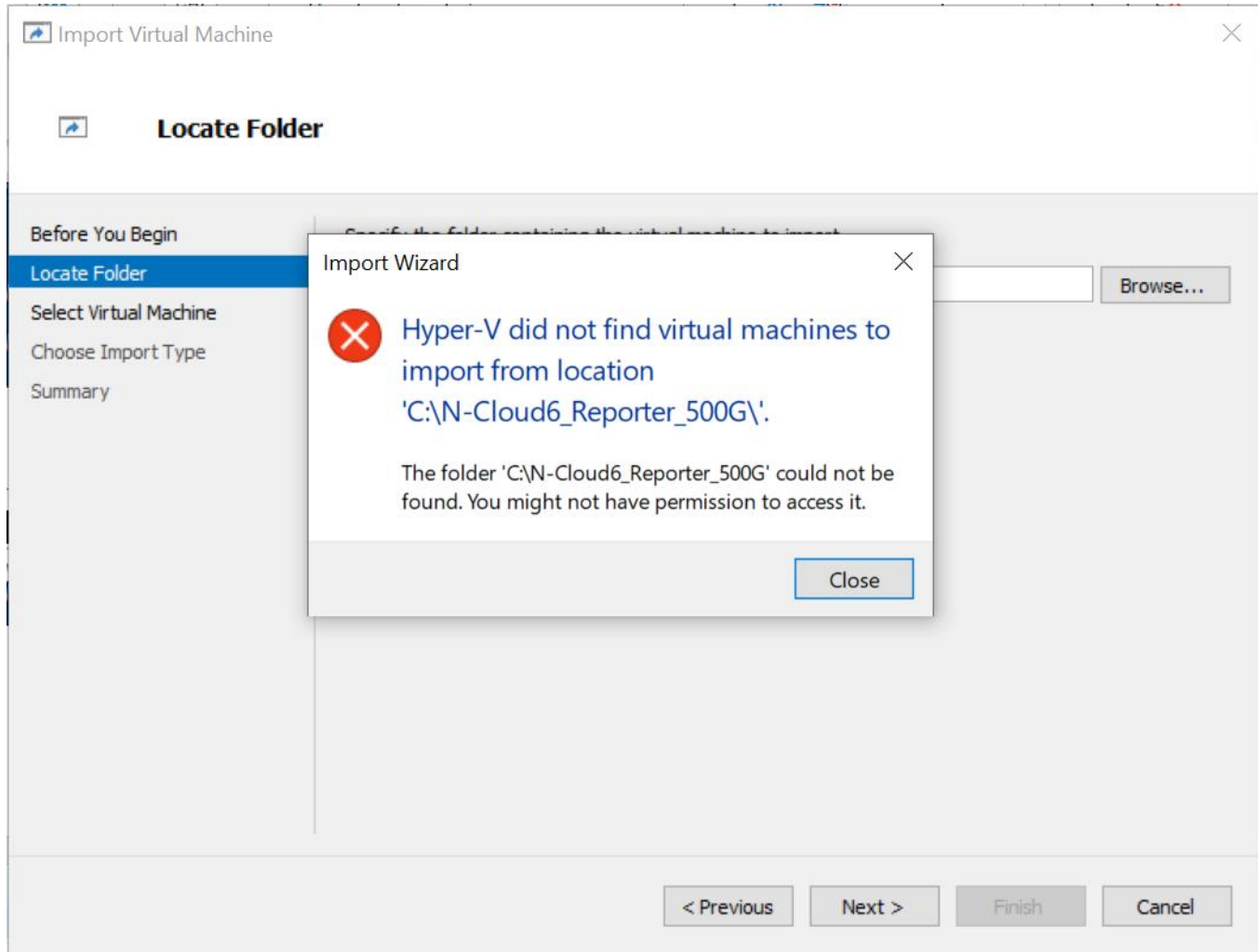
- (4) Reboot.

```
PS C:\> Restart-Computer
```



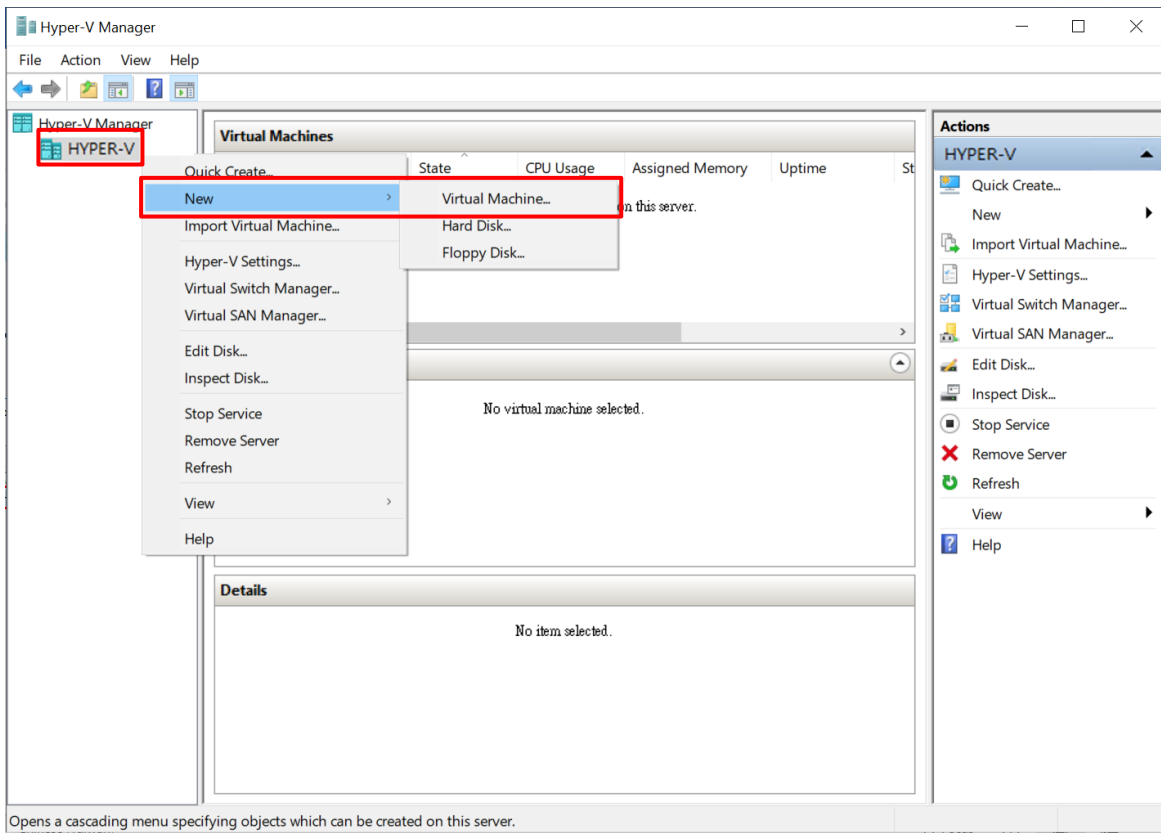
6.5 Hyper-V no Virtual Machine Files Found

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

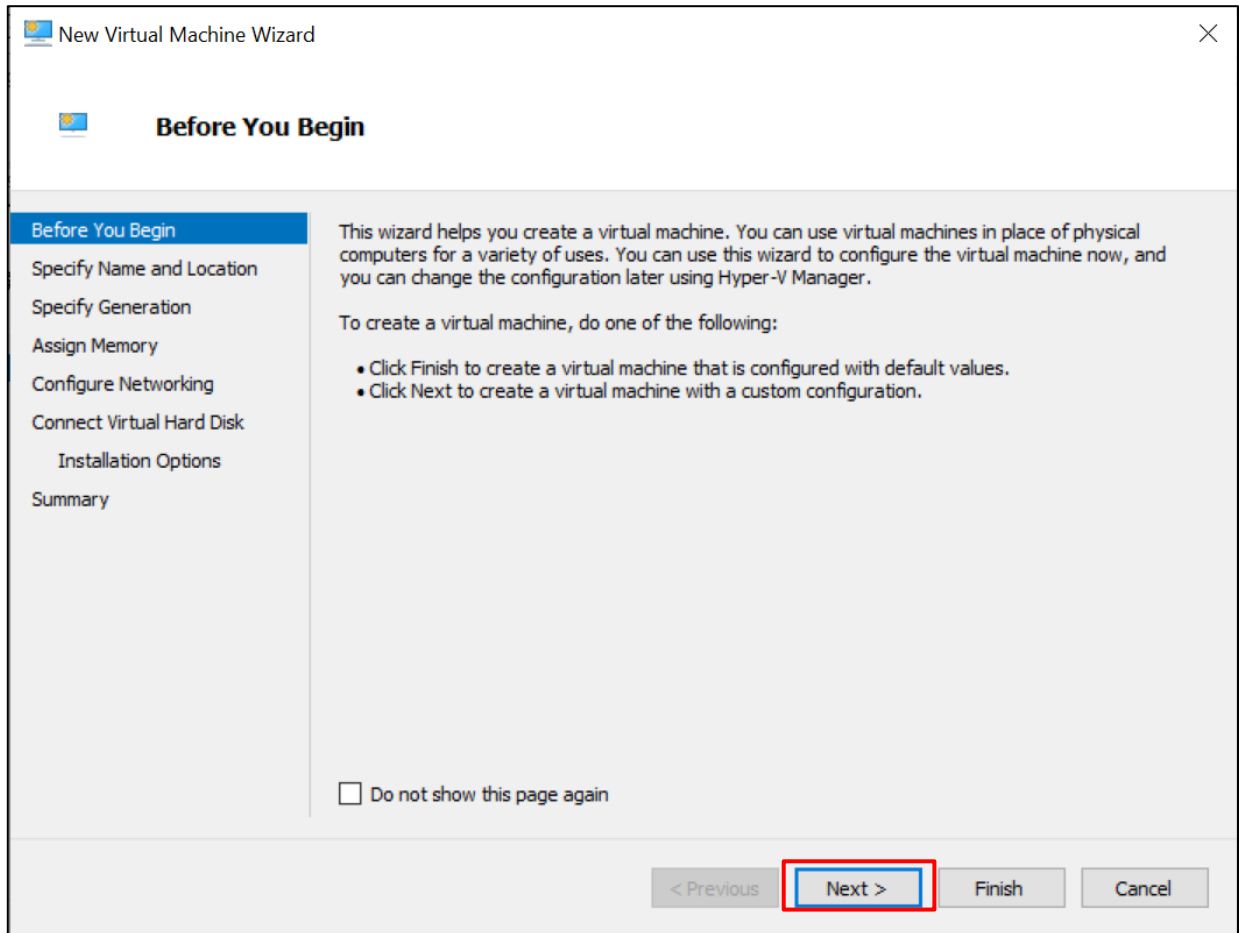


6.5.1 New Virtual Machine

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



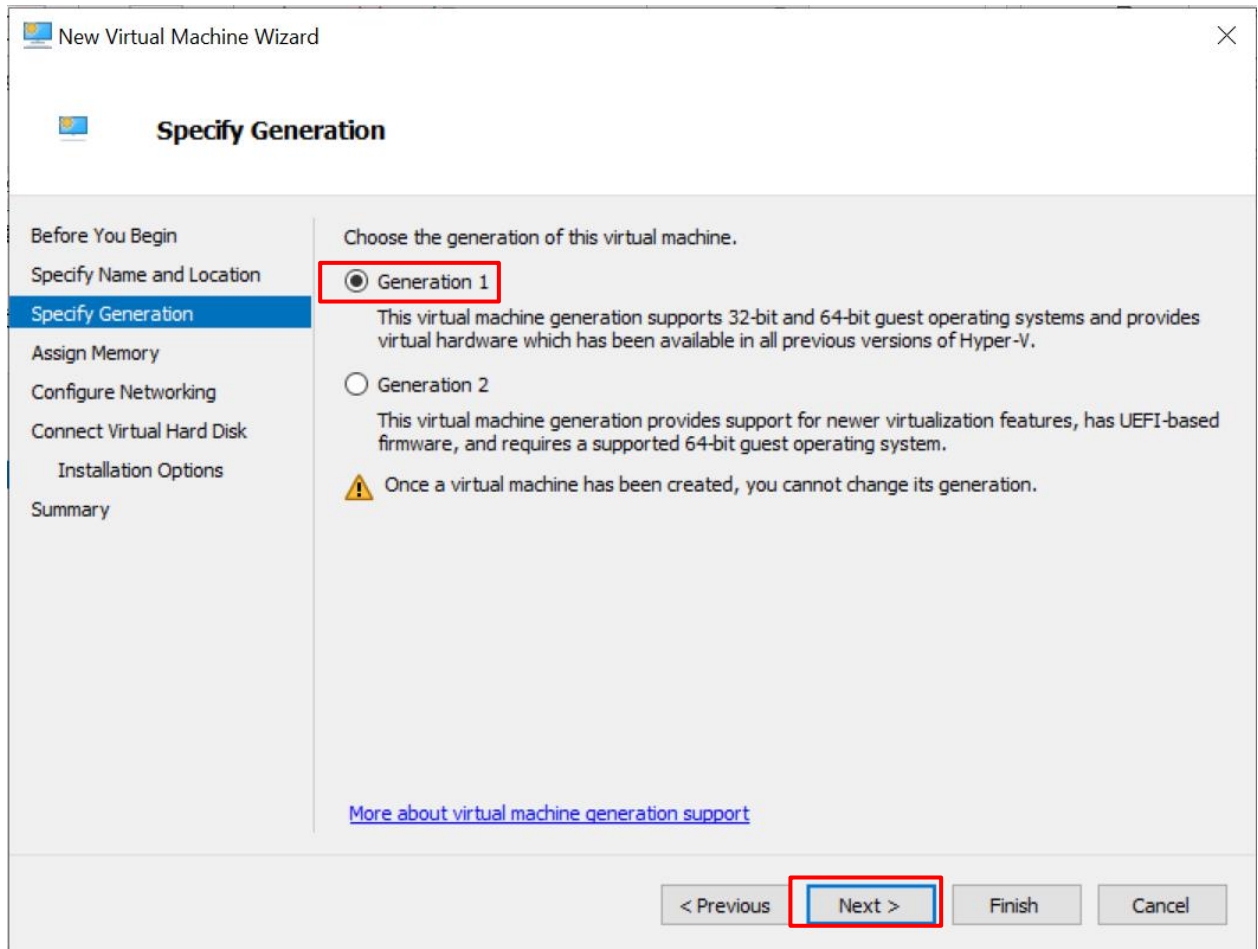
(2) Click “Next.”



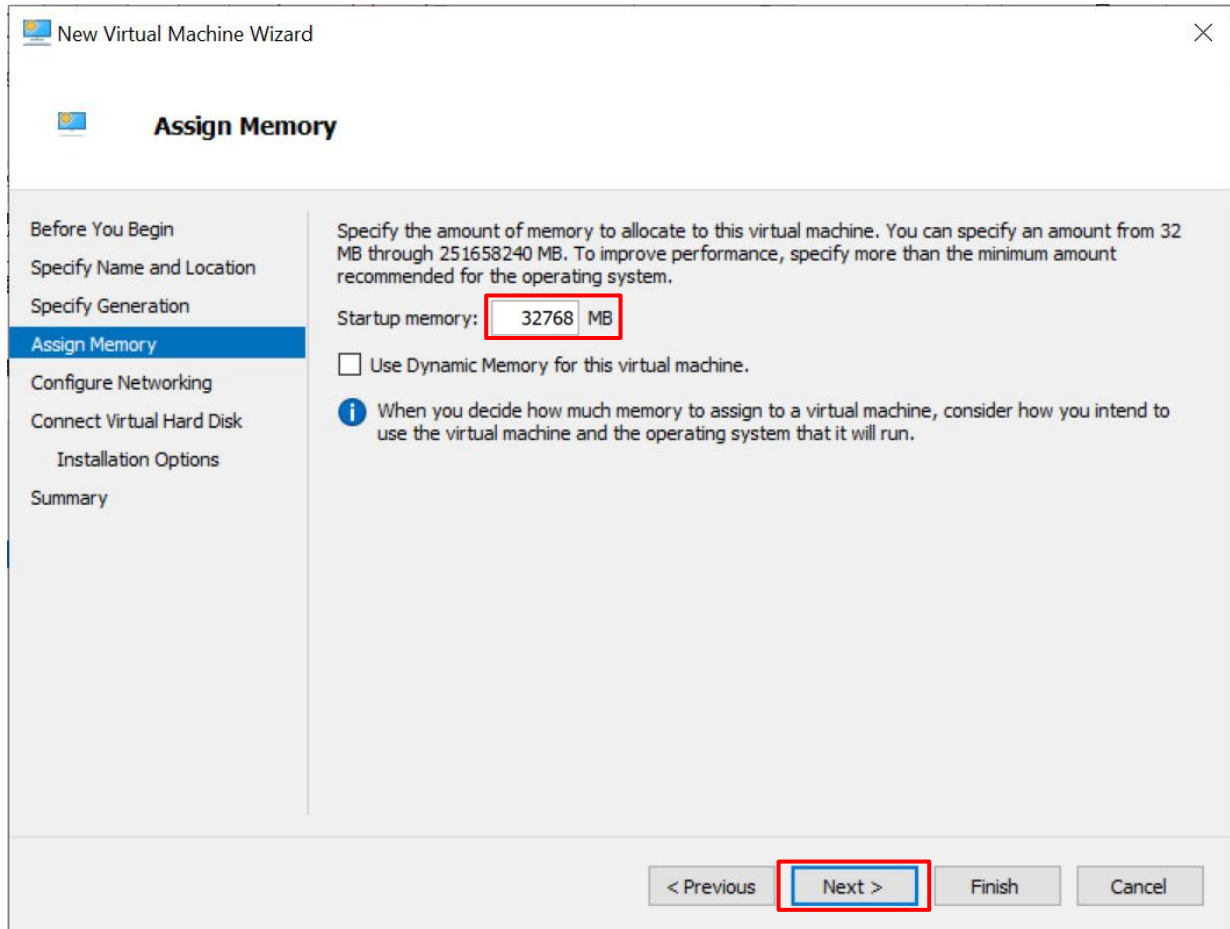
(3) Enter the name of the virtual machine and select a location for it. Click “Next.”

The screenshot shows the 'New Virtual Machine Wizard' dialog box, specifically the 'Specify Name and Location' step. The window title is 'New Virtual Machine Wizard'. On the left, there is a navigation pane with the following steps: 'Before You Begin', 'Specify Name and Location' (which is highlighted), 'Specify Generation', 'Assign Memory', 'Configure Networking', 'Connect Virtual Hard Disk', 'Installation Options', and 'Summary'. The main area contains the following text: 'Choose a name and location for this virtual machine. The name is displayed in Hyper-V Manager. We recommend that you use a name that helps you easily identify this virtual machine, such as the name of the guest operating system or workload.' Below this is a text box labeled 'Name:' containing the text 'N-Reporter'. The next paragraph reads: 'You can create a folder or use an existing folder to store the virtual machine. If you don't select a folder, the virtual machine is stored in the default folder configured for this server.' Below this is a checkbox labeled 'Store the virtual machine in a different location' which is checked. Underneath is a text box labeled 'Location:' containing the text 'C:\Hyper-V\VMs' and a 'Browse...' button. A warning icon (yellow triangle with an exclamation mark) is followed by the text: 'If you plan to take checkpoints of this virtual machine, select a location that has enough free space. Checkpoints include virtual machine data and may require a large amount of space.' At the bottom of the dialog, there are four buttons: '< Previous', 'Next >' (which is highlighted with a blue border), 'Finish', and 'Cancel'.

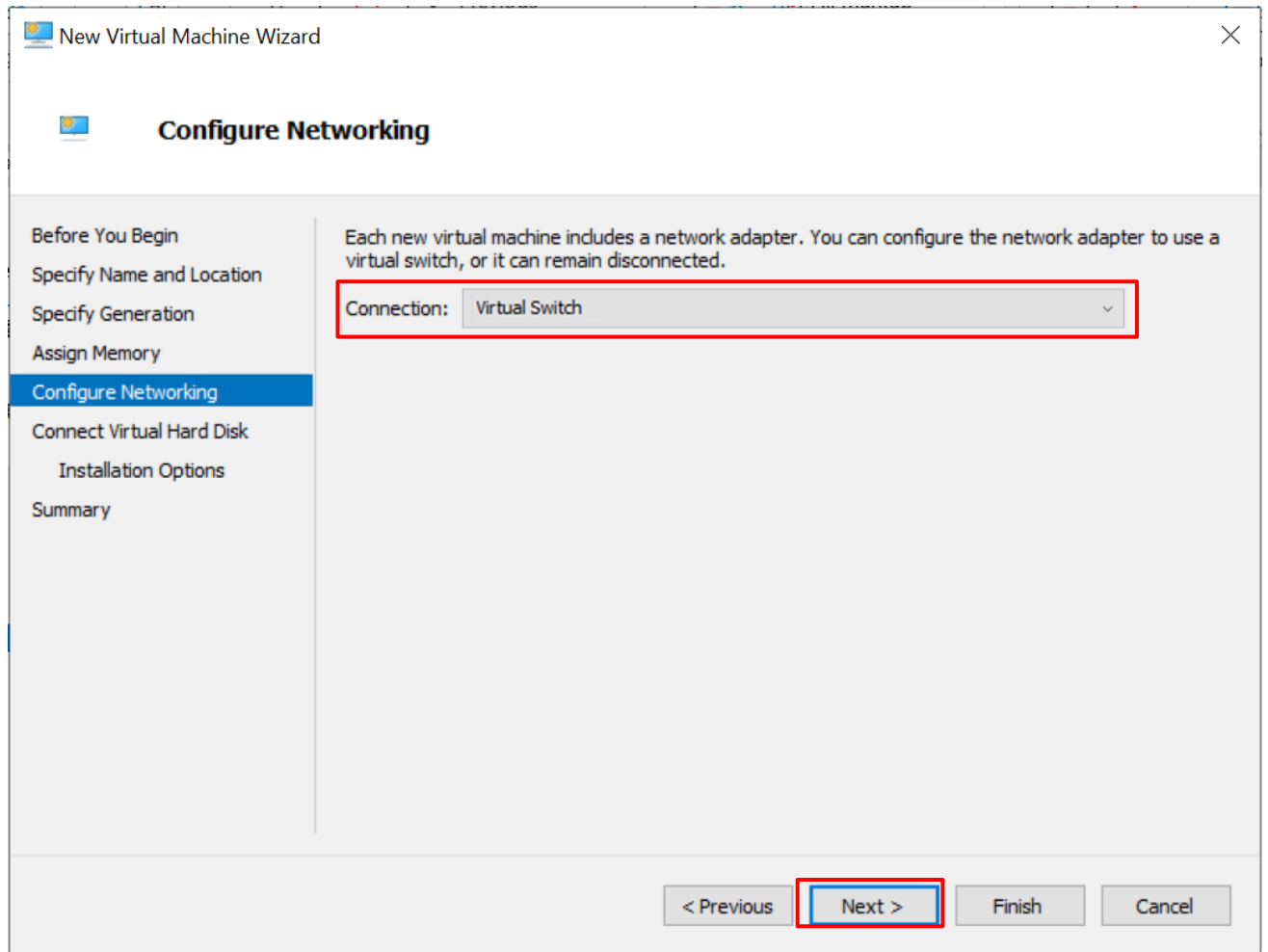
(4) Click “Generation 1” and click “Next.”



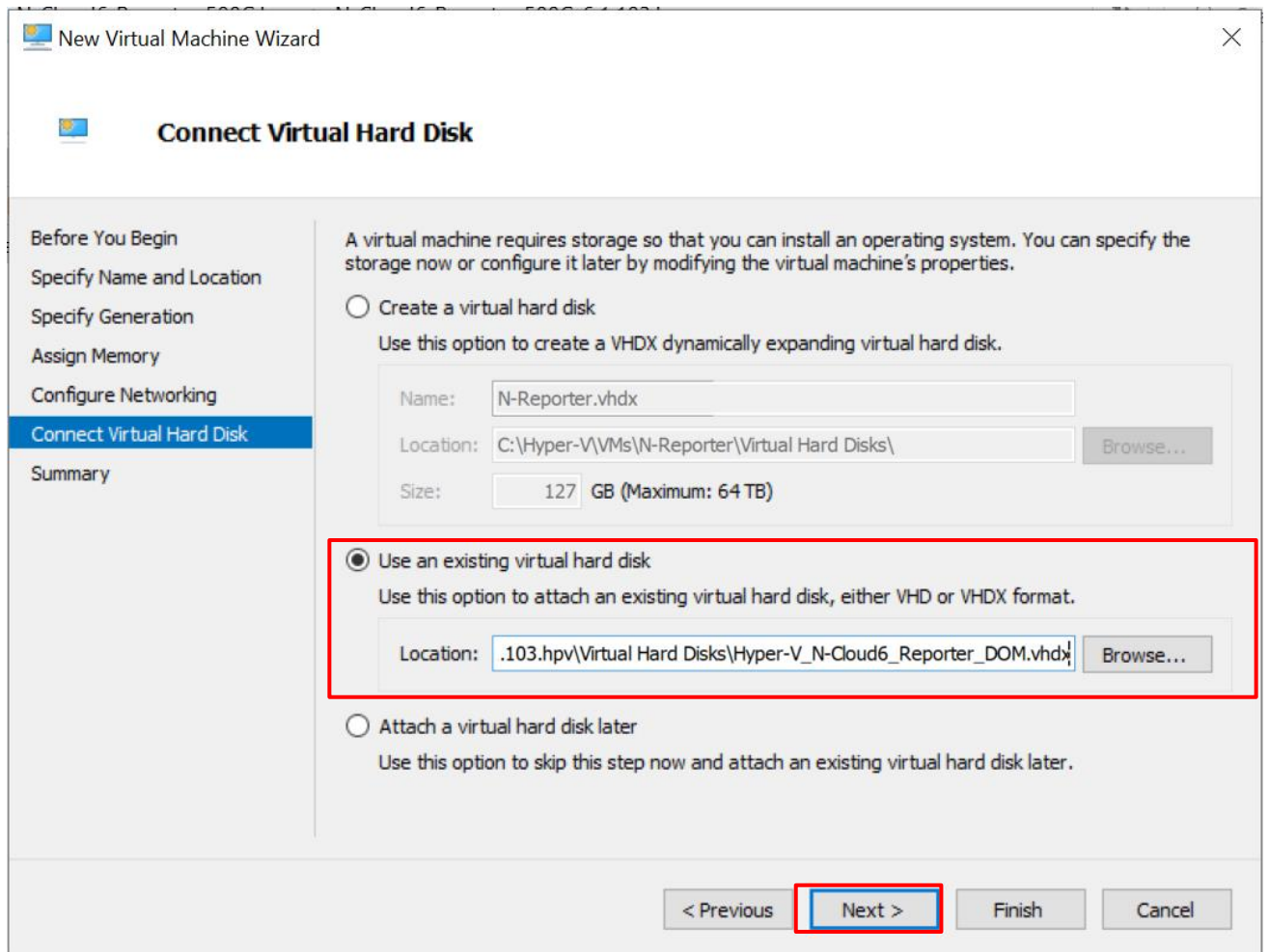
(5) Enter 32768 MB in “Startup memory” and click “Next.”



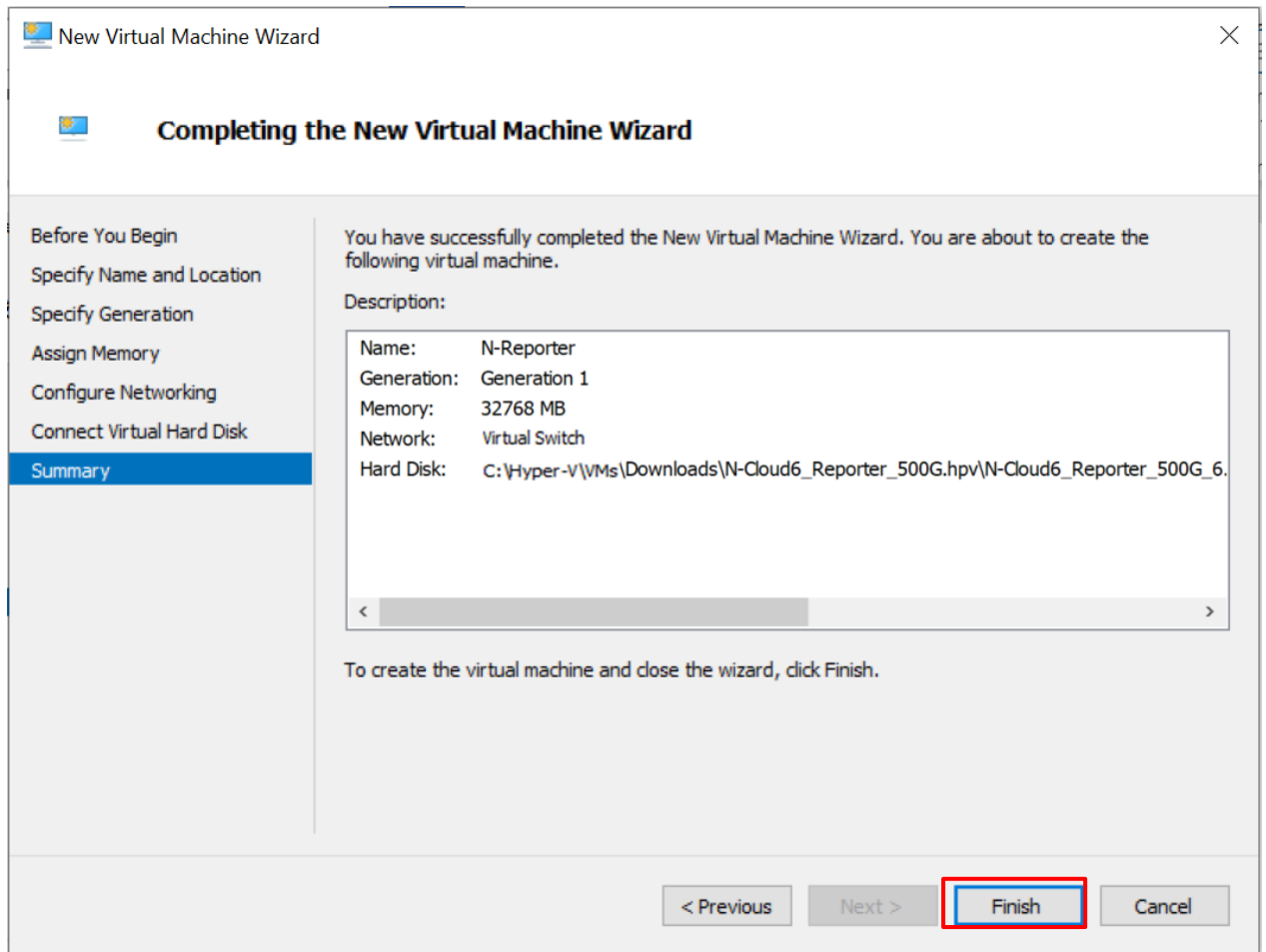
(6) Set to connect with “Virtual Switch” and click “Next.”



- (7) Click “Use an existing virtual hard disk” and click “Browse...” to select N-Reporter_DOM.vhdx.
Click “Next.”



(8) Click "Finish."



6.5.2 Add Hard Drive

(1) Click “Settings....”

The screenshot shows the Hyper-V Manager interface. The 'Virtual Machines' table lists the 'N-Reporter' VM with a state of 'Off'. The 'Checkpoints' section indicates no checkpoints are present. The 'N-Reporter' details show it was created on 6/17/2021 at 12:00:11 PM, with configuration version 9.0, generation 1, and no clusters. The 'Actions' pane on the right has the 'Settings...' option highlighted with a red box. The status bar at the bottom indicates 'LAPTOP-2OOPH2D0: 1 virtual machine selected.'

Name	State	CPU Usage	Assigned Memory	Uptime	St
N-Reporter	Off				

Checkpoints

The selected virtual machine has no checkpoints.

N-Reporter

Created: 6/17/2021 12:00:11 PM **Clustered:** No
Configuration Version: 9.0
Generation: 1
Notes: None

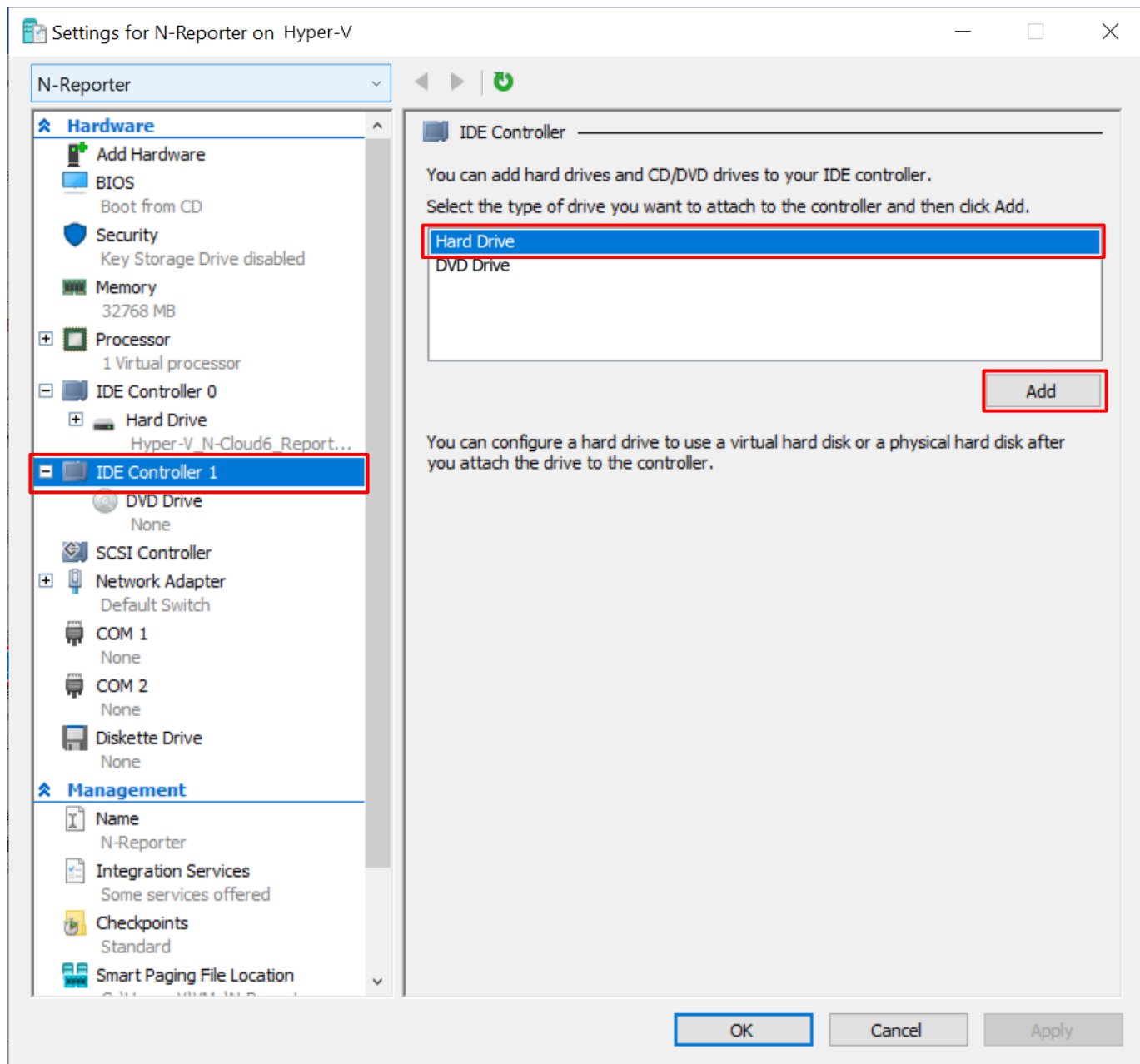
Summary Memory Networking

Actions

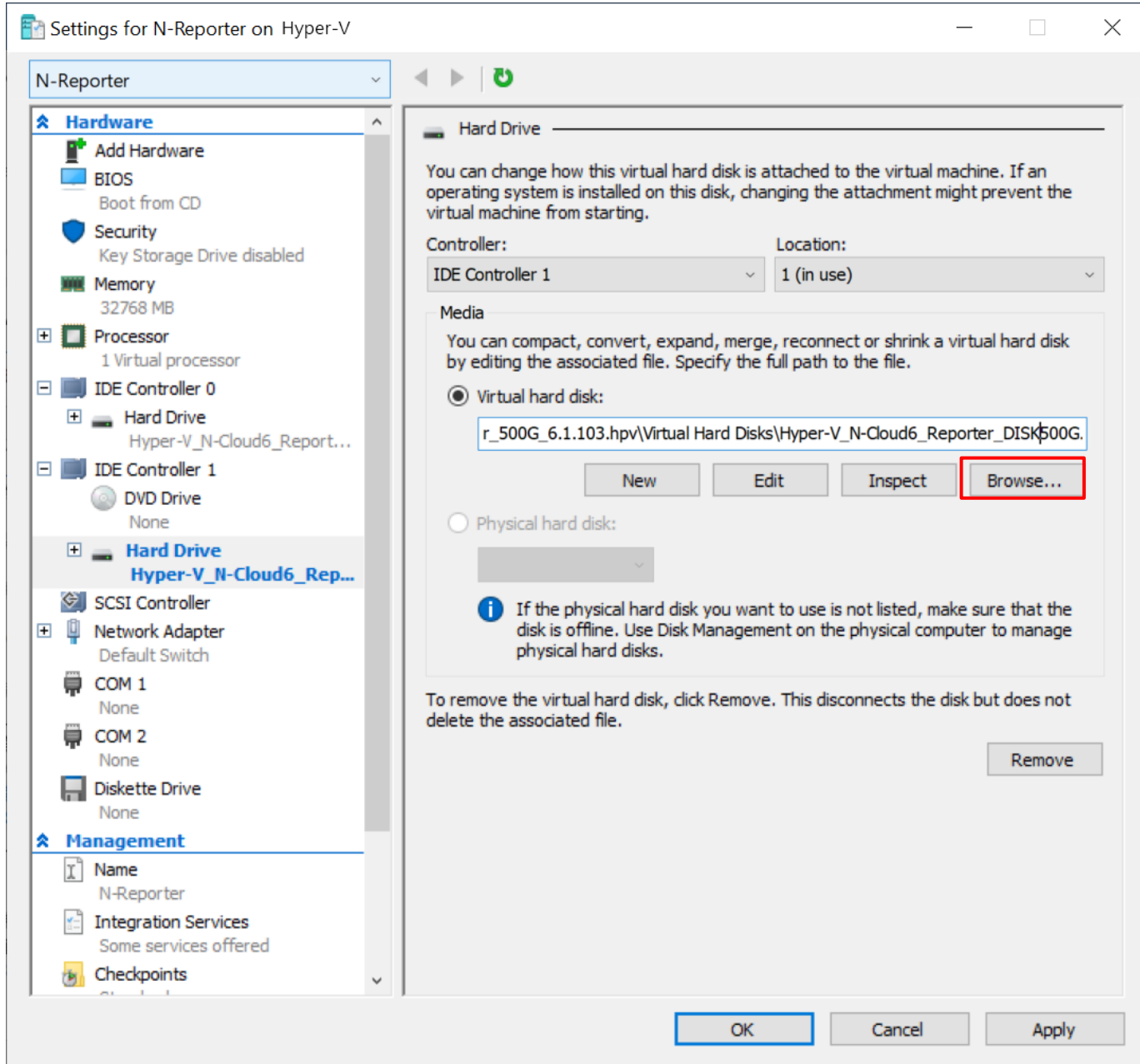
- HYPER-V
 - Quick Create...
 - New
 - Import Virtual Machi...
 - Hyper-V Settings...
 - Virtual Switch Mana...
 - Virtual SAN Manager...
 - Edit Disk...
 - Inspect Disk...
 - Stop Service
 - Remove Server
 - Refresh
 - View
 - Help
- N-Reporter
 - Connect...
 - Settings...**
 - Start
 - Checkpoint
 - Move...
 - Export...
 - Rename...

LAPTOP-2OOPH2D0: 1 virtual machine selected.

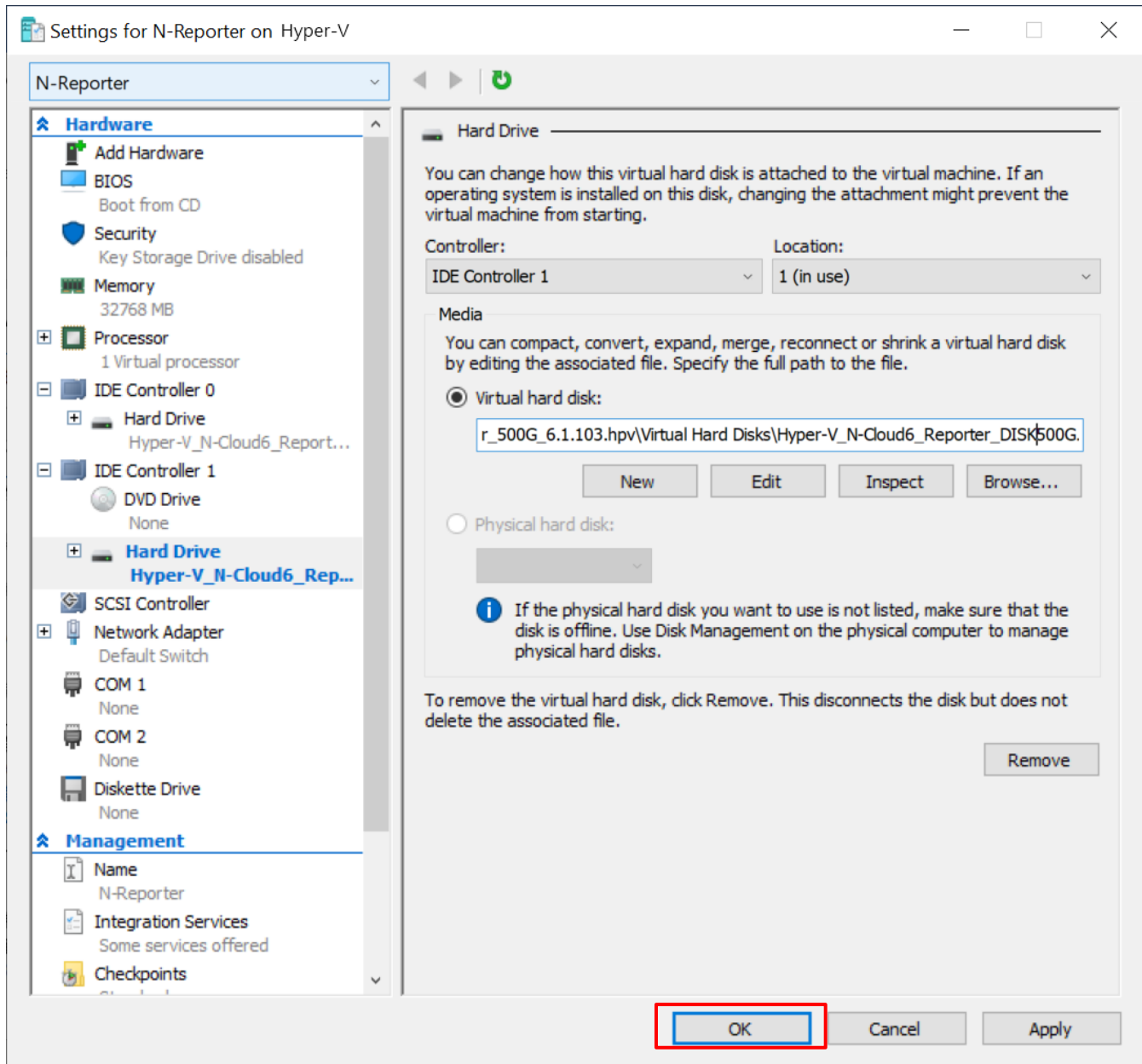
(2) Click "IDE Controller," select "Hard Drive" and click "Add."

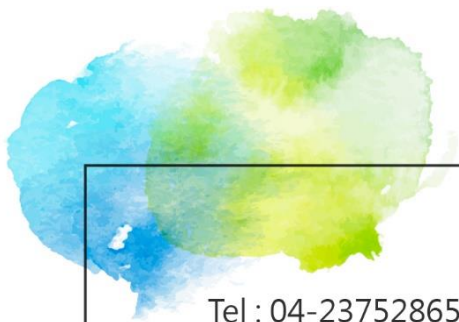


(3) Click “Browse” and select N-Reporter_DISK.vhdx.



(4) Click "OK."





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