
CYBONET

# Cybowall

# Quick Installation Guide

Last Modified 30 April 2018

This Quick Installation Guide (QIG) details how to install CYBONET's Cybowall solution. It is intended for anyone who wants to install Cybowall, including network engineers, system administrators and IT managers.

## Before Starting

Before starting software installation, it is important to ensure:

- That the hardware pre-requisites are met – as detailed below for physical and virtual installations.
- That the license installation key is available – it is required during the product's software installation.

## Hardware Pre-requisites

**Minimum** installation requirements for Cybowall in both a physical and virtual environment are:

1. 1 quad core CPU
2. RAM – 16 GB
3. 2 Network Interface Cards (NIC):
   - Management and Network Scans
   - Port Mirroring
4. 1 Hard Disk (HDD) – 150 GB

**Recommended** (best practice) installation requirements:

1. CPU – as above (adding additional cores improves performance)
2. RAM – as above (adding additional memory improves performance)
3. NICs – as above
4. 2 HDDs:

   A. In a **Physical Environment**:

   - HDD – as above:
     - This HDD is for the OS and Logs, and needs to be the bootable HD in the BIOS
   - Solid State Drive (SSD) – minimum 70 GB – must be smaller than the first HDD:
     - The SSD is for the Cybowall Database

B. In a **Virtual Environment**:

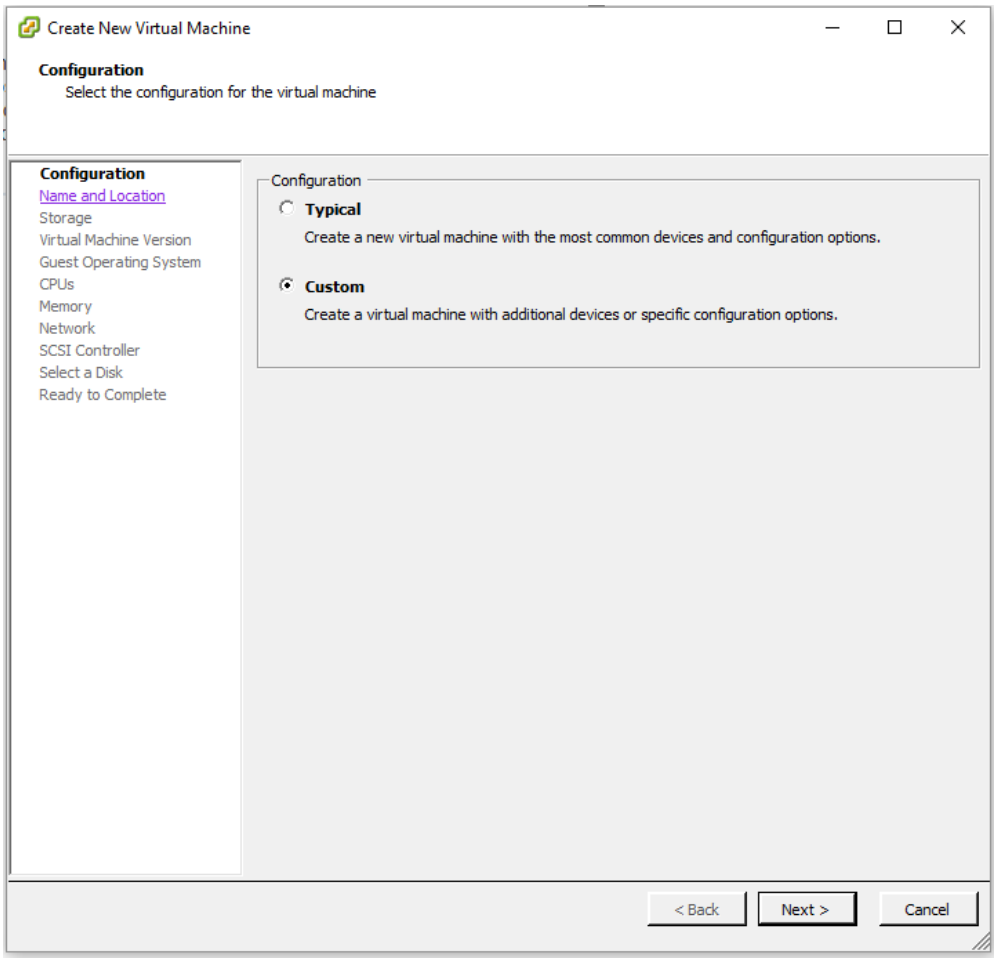
Supported virtual platforms are VMware and Hyper-V. XEN is not currently supported.

- 2 HDDs are recommended when installing Cybowall on a virtual system.
- Both HDDs need to meet/exceed the minimum sizes detailed in section A. above, and one HD must be larger than the other.
- The mirroring port should be set to a dedicated physical NIC since all network traffic is directed to that interface.
- The port mirroring interface needs to have promiscuous mode enabled so that mirrored traffic is not blocked.

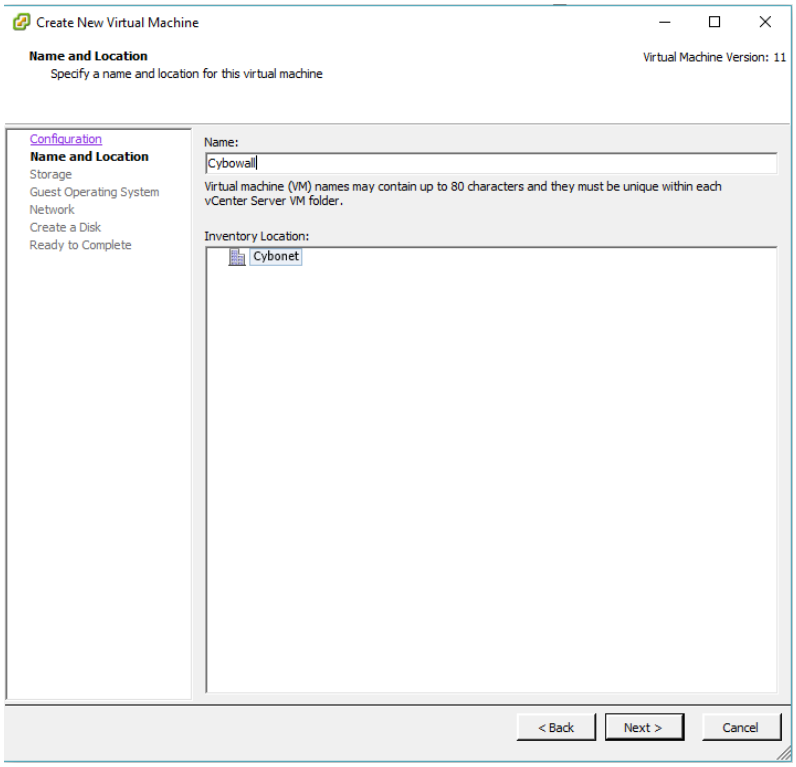
# Installing Cybowall as a Virtual Host on WMware

These instructions are for VMware ESXi v6.0. Installation can be performed on any ESXi version.

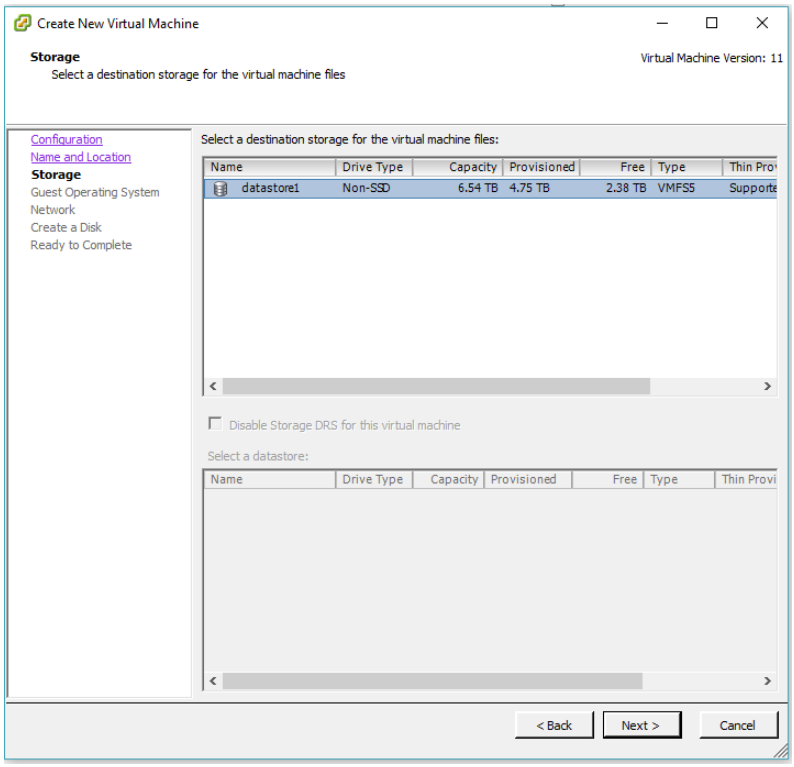
1. Create a new Custom virtual machine:



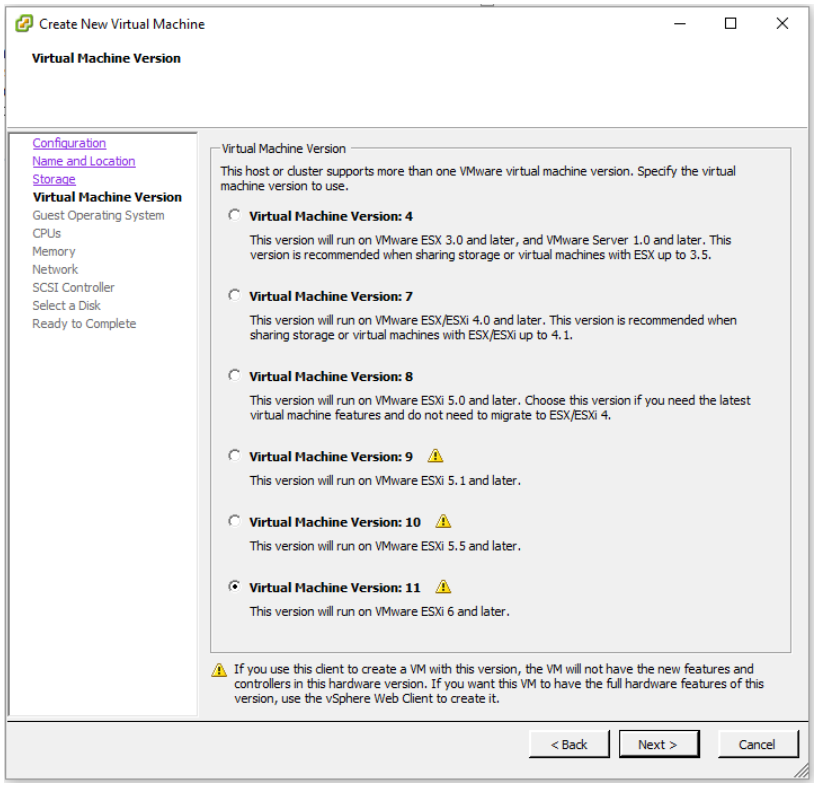
2. Give it a name:



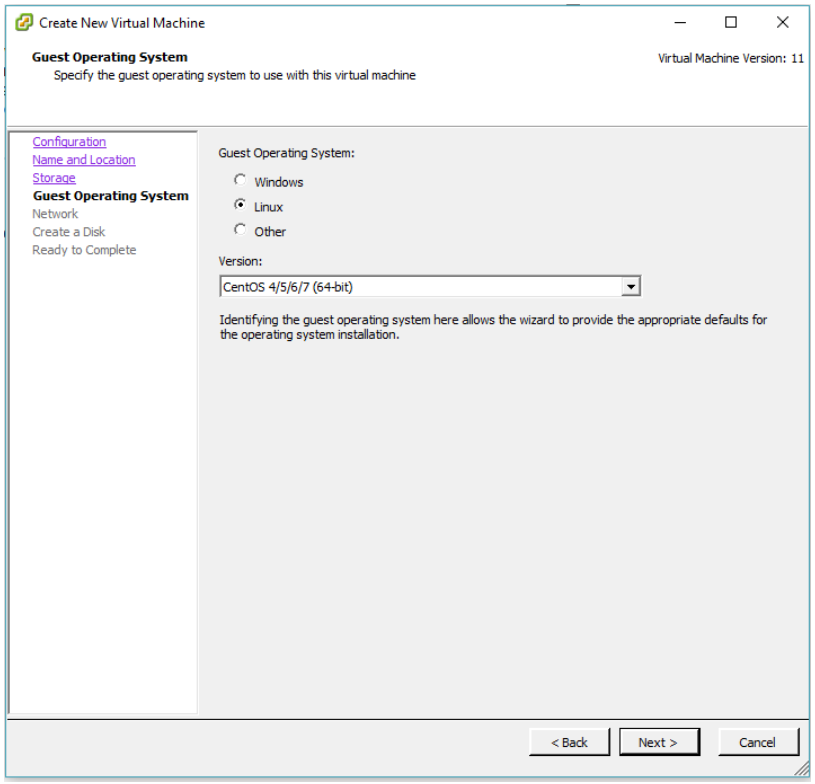

3. Choose the destination:



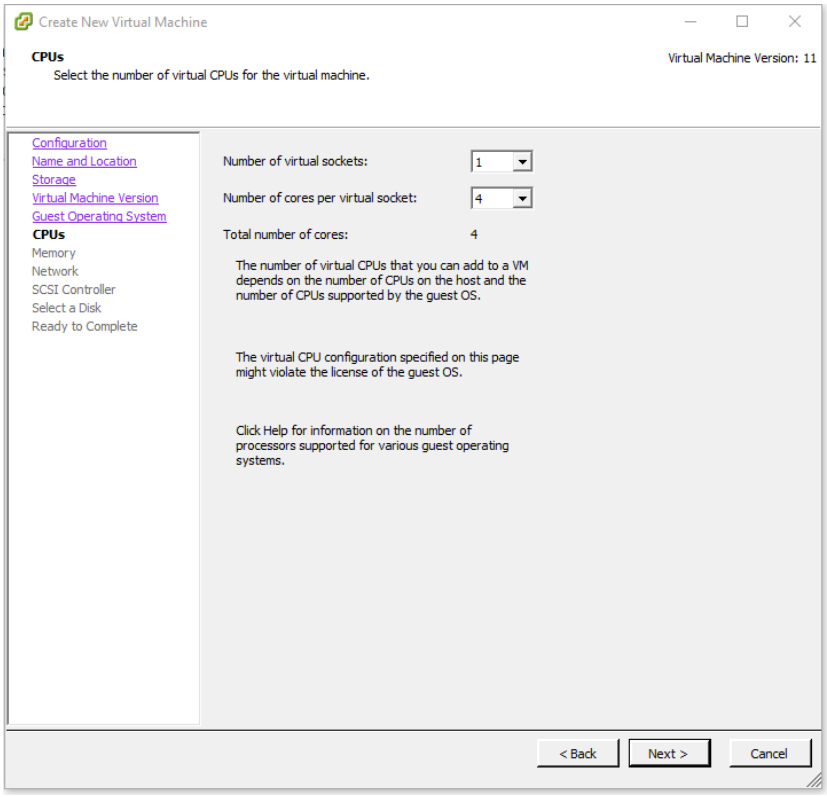
4. Select 'Virtual Machine Version 11':



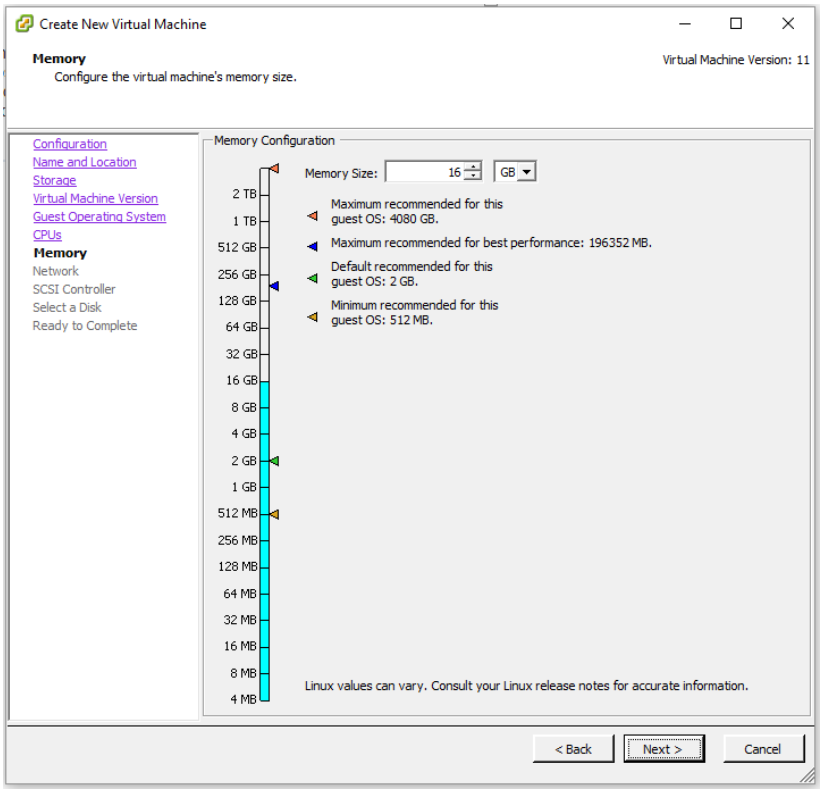

5. Select OS version Linux – CentOS 64 bit:



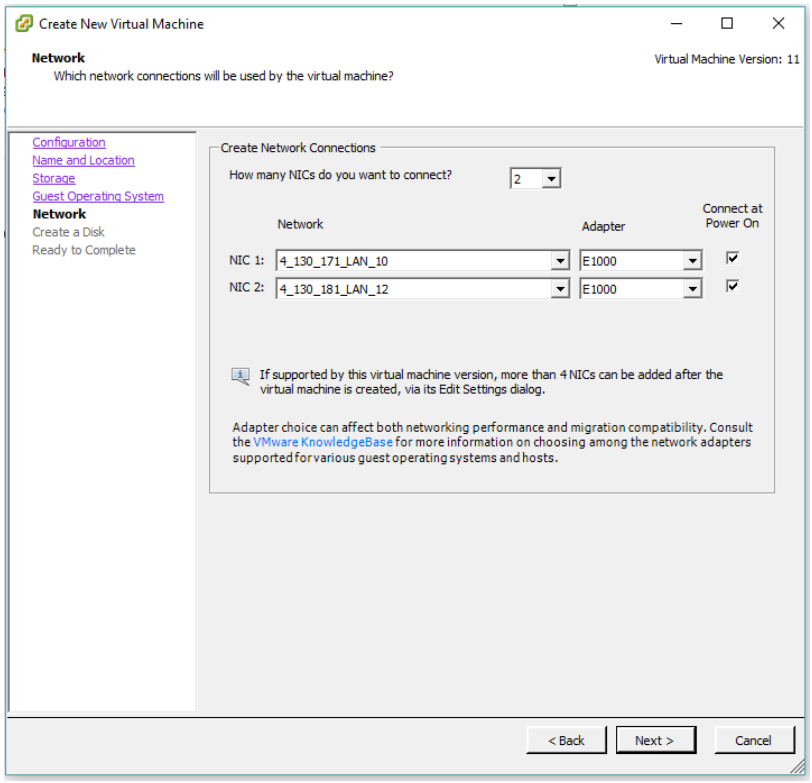
6. Add CPU – at least 4 cores:



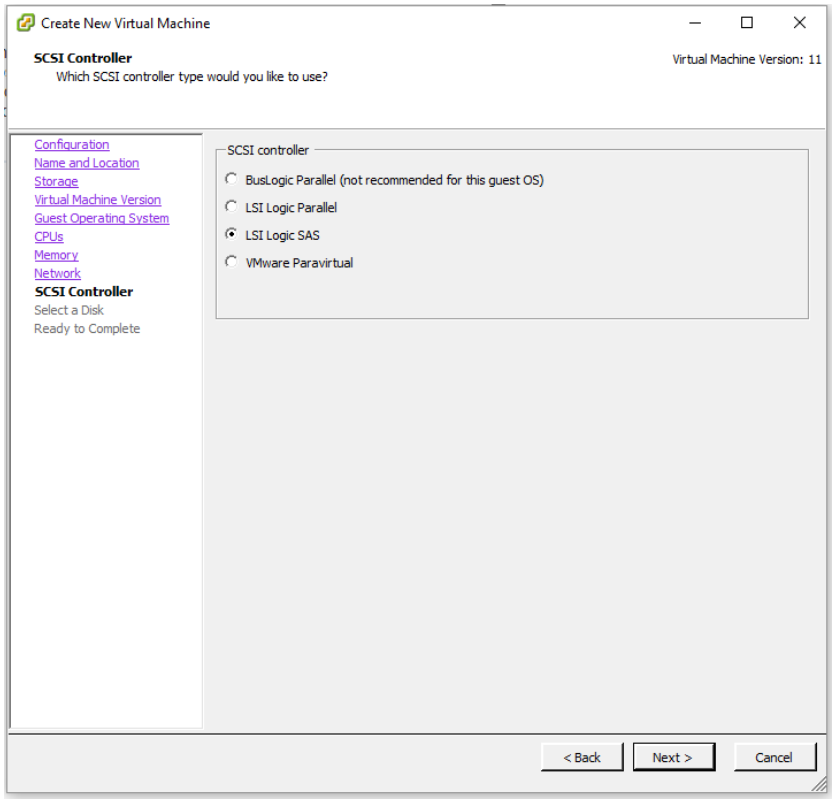

7. Add RAM – at least 16 GB:



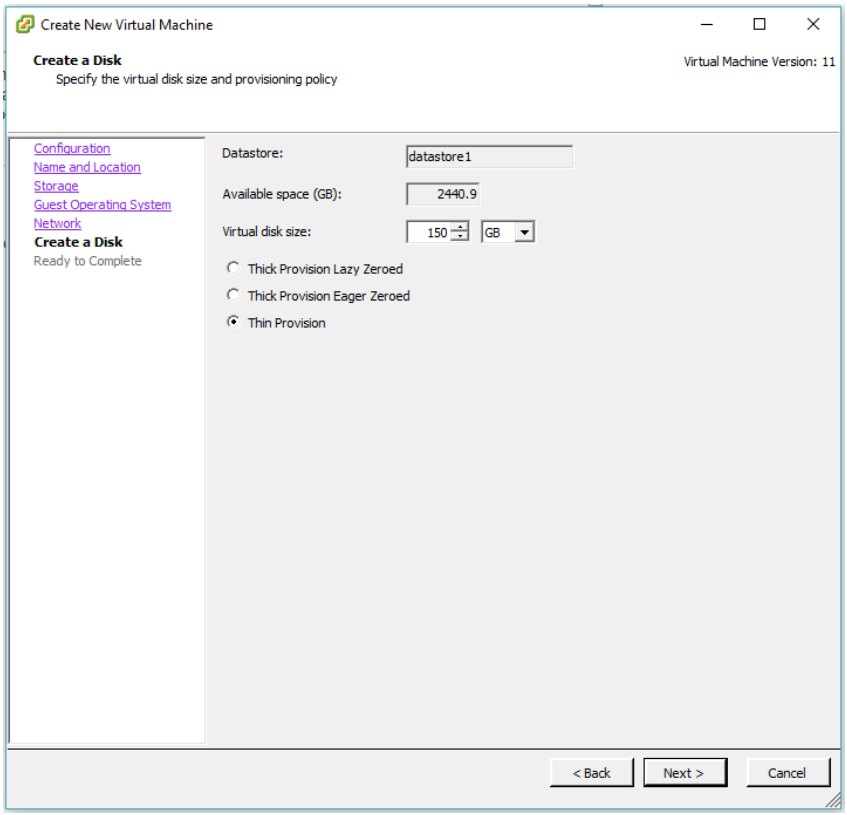
8. Add 2 NICs:



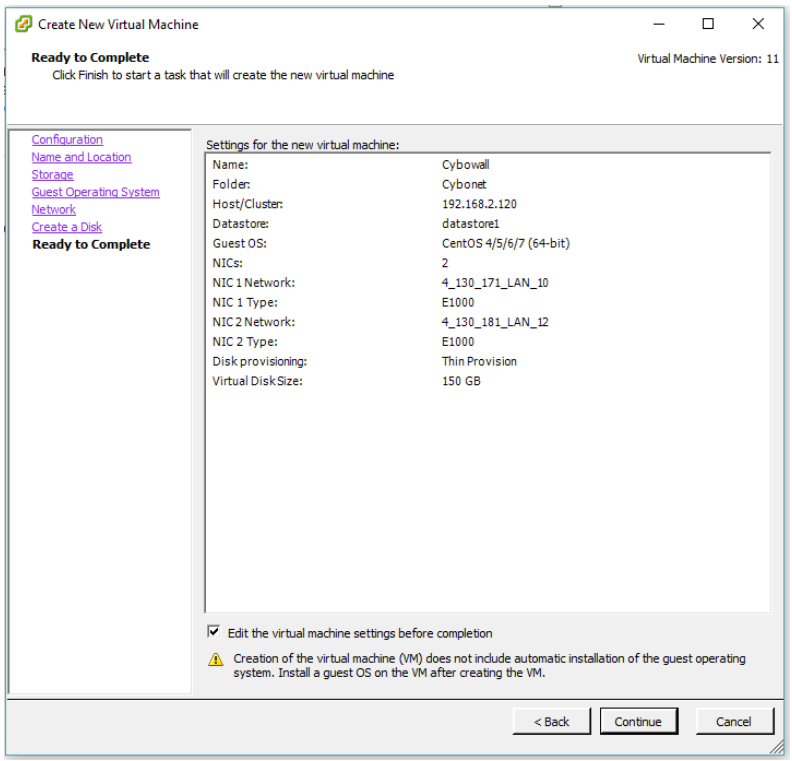

9. Choose the Controller type:



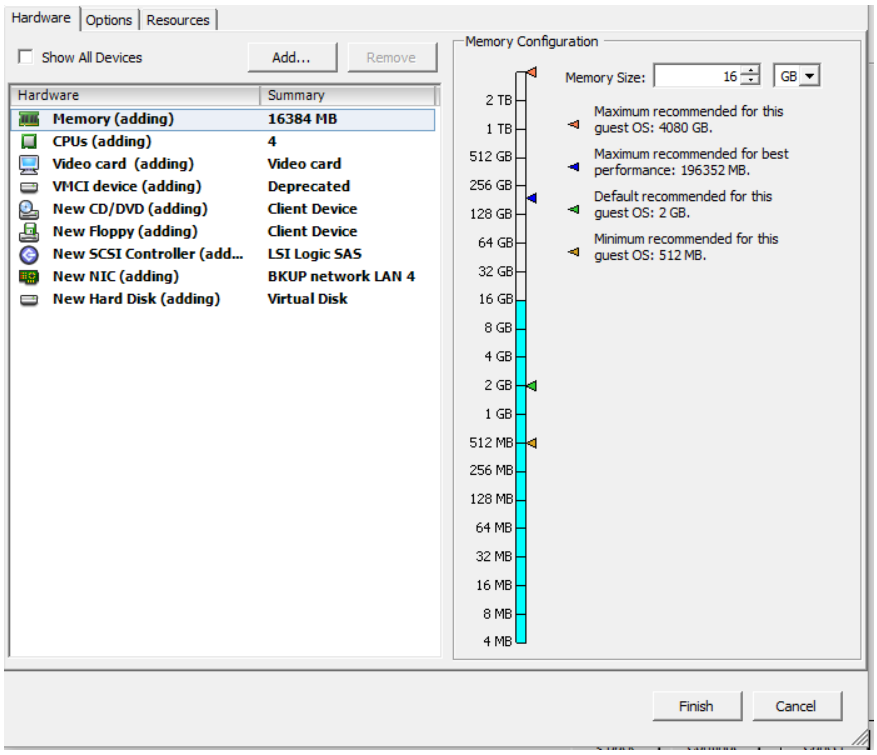
10. Create the first HDD for the OS – set size to at least 150 GB. The system boots from this disk:



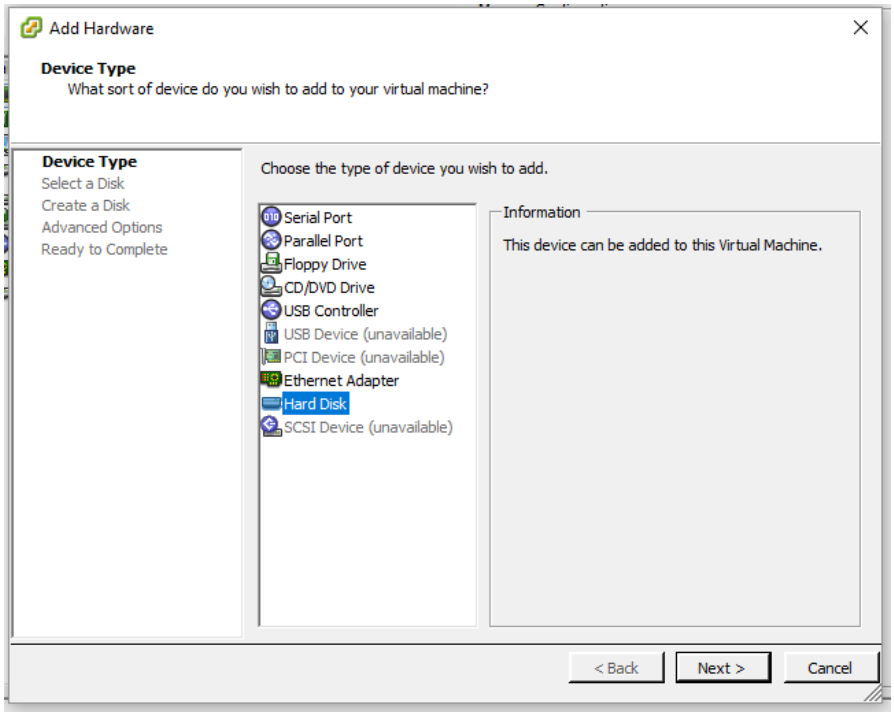

11. Click on Next, then check the 'Edit the virtual machine settings' check box. Click Continue:



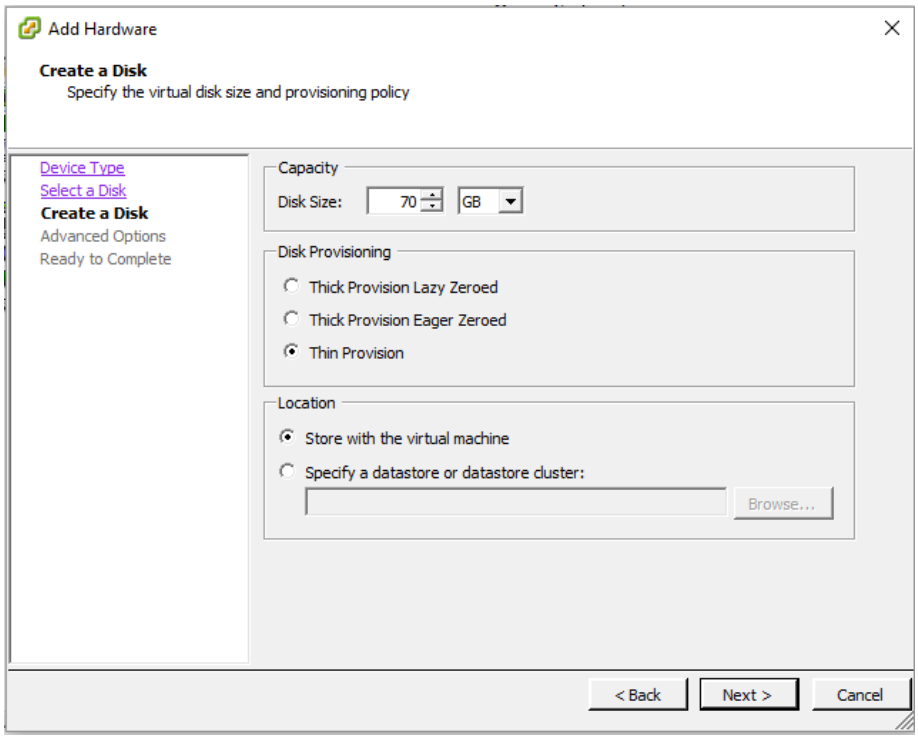
12. Click Add in order to add a second HDD:



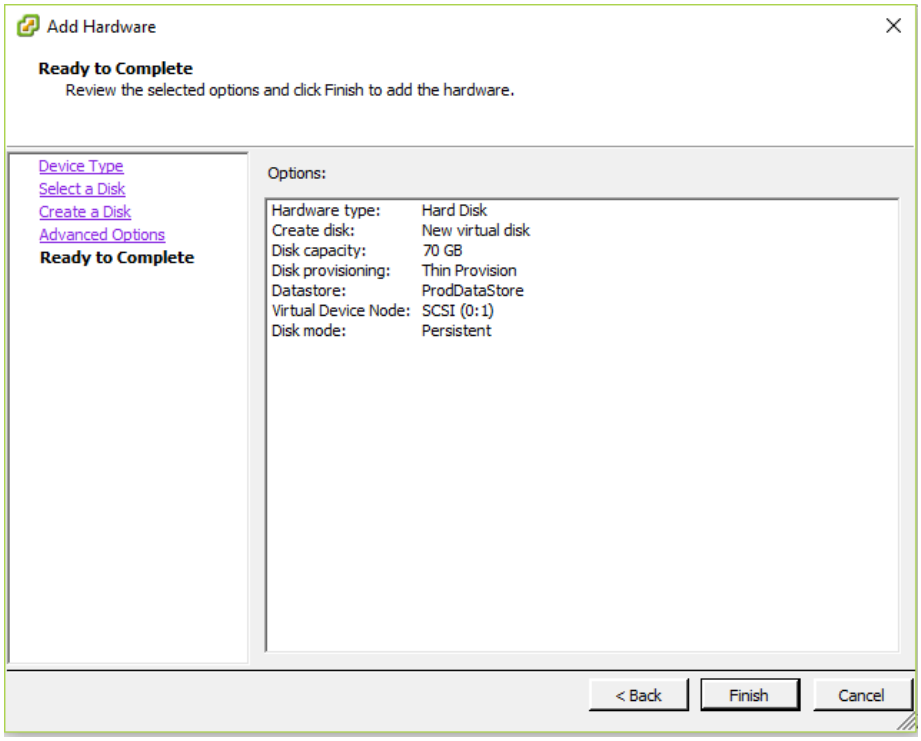

13. Select Hard Disk and click Next:



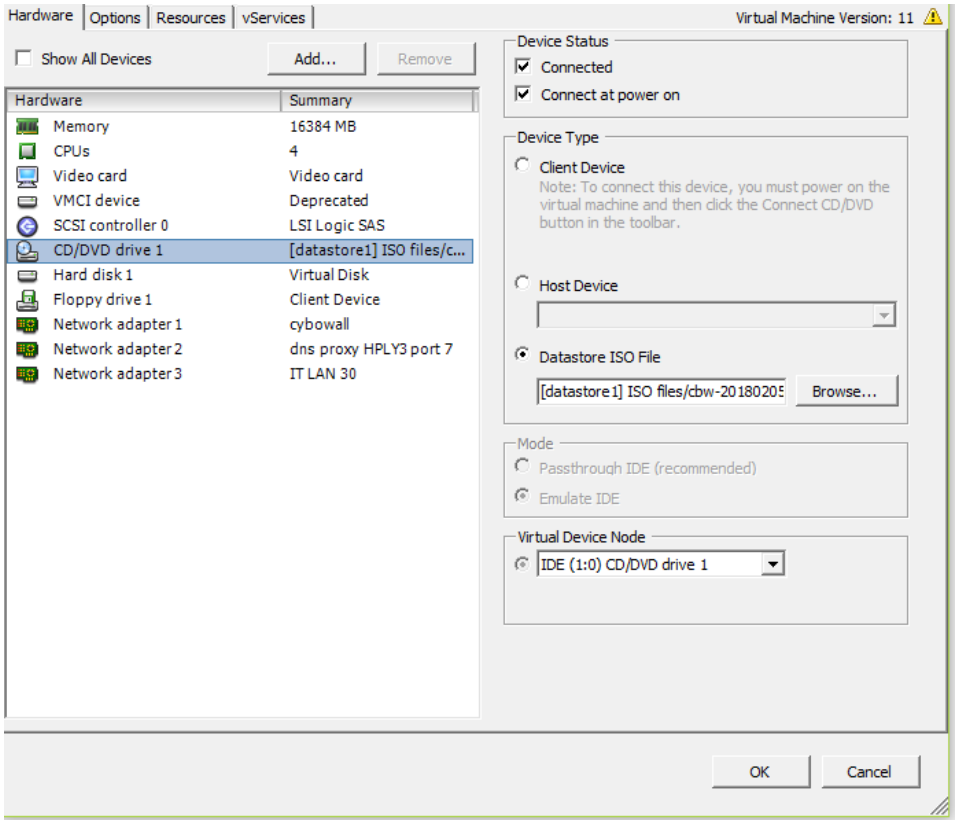
14. Select Capacity, Disk Provisioning and Location. This HDD is for the database and needs to be smaller than the first HDD:




15. Click Next and then Next again (unless changing Advanced Options). Click Finish:



16. Add the Cybowall ISO and check the 'Connect at power on' check box. Click Finish and boot the virtual machine and open the console:

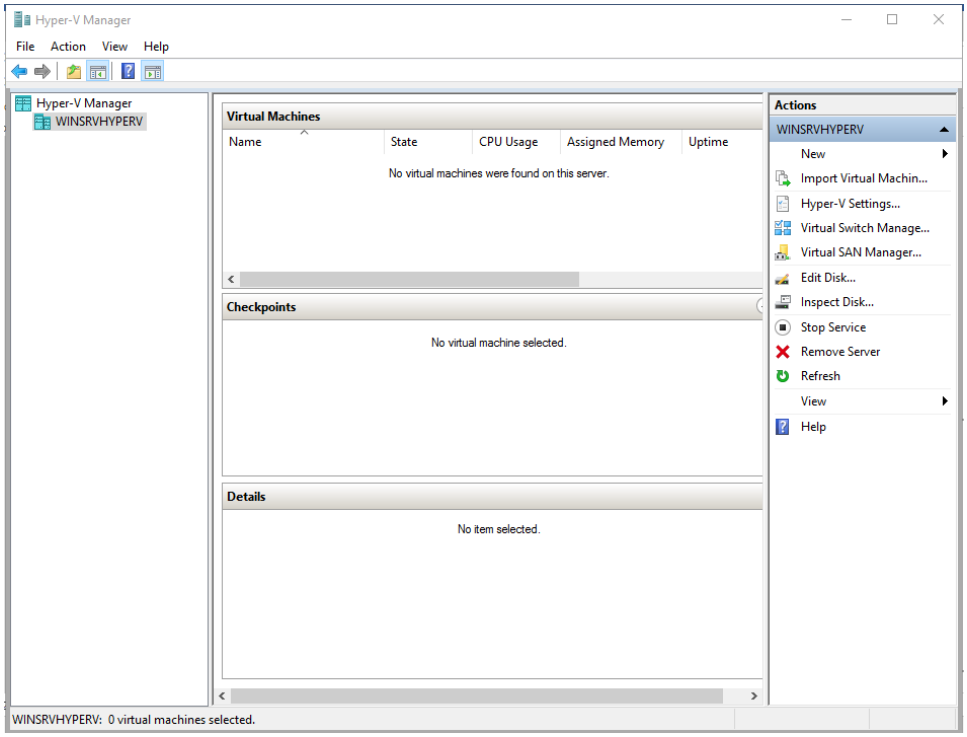



17. Refer to the Physical Installation section of this QIG and follow the instructions from step 5.

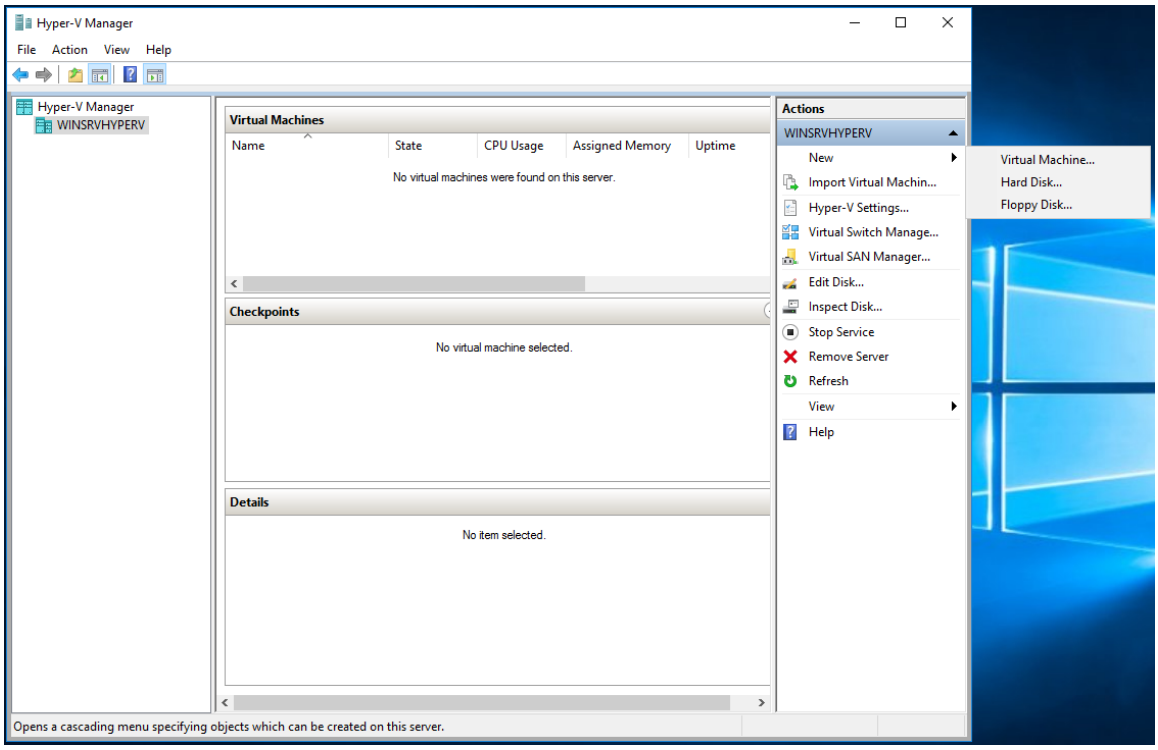
# Installing Cybowall as a Virtual Host on Hyper-V

These instructions are for Hyper-V version 10.0.14393.0, on Windows Server 2016. Installation can also be performed on previous versions of Hyper-V and Windows Server.

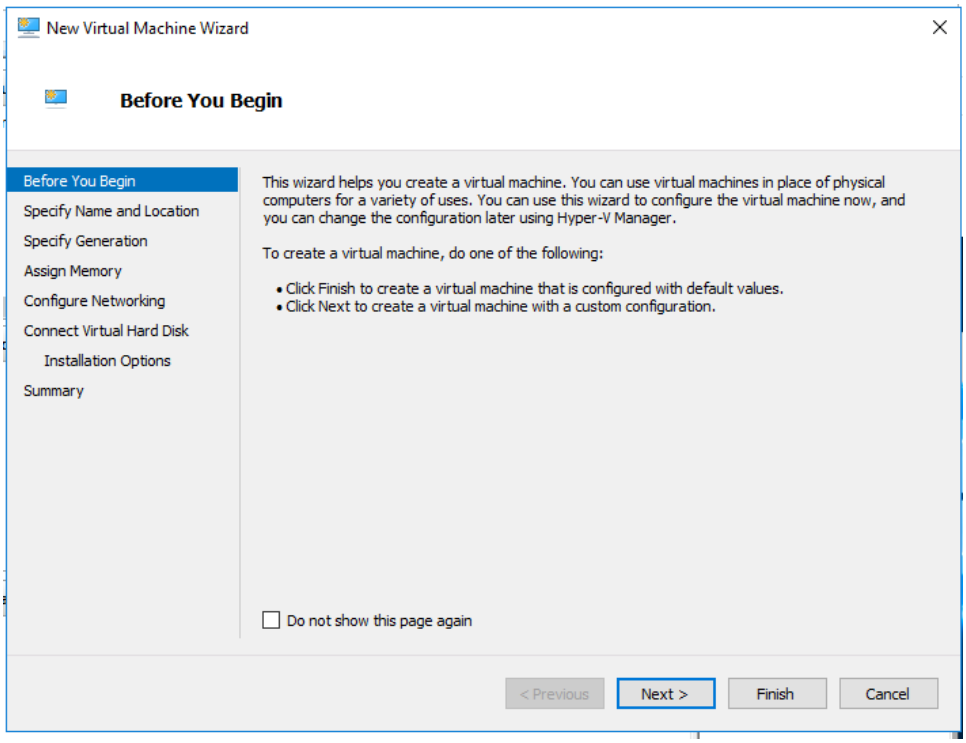
1. Open Hyper-V Manager:



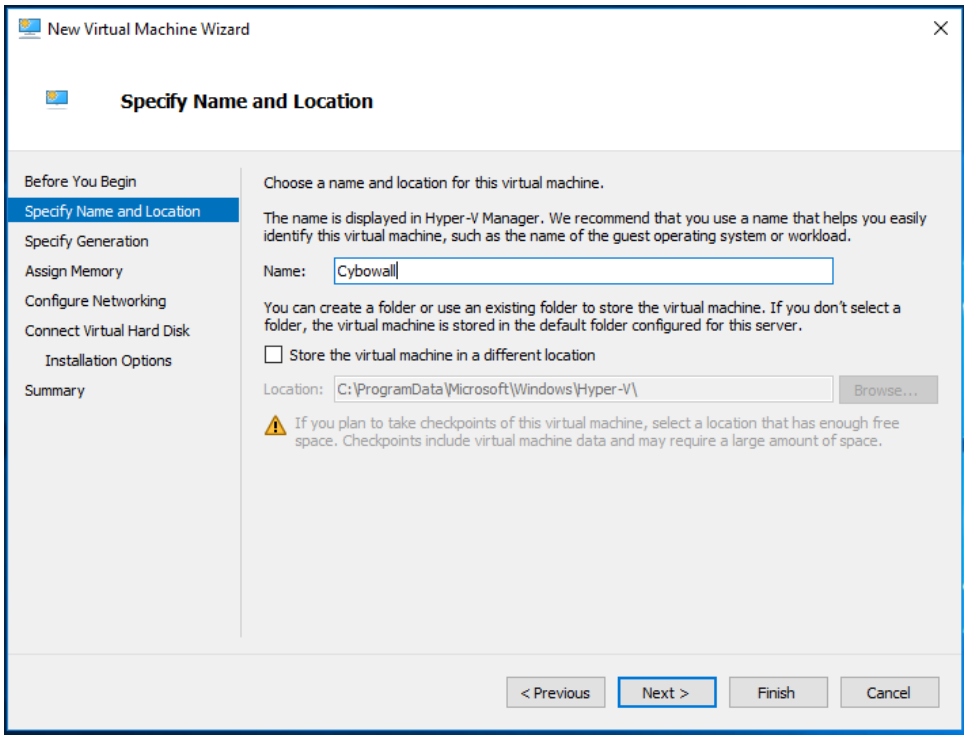
2. Click on New > Virtual Machine in the Actions pane on the right:



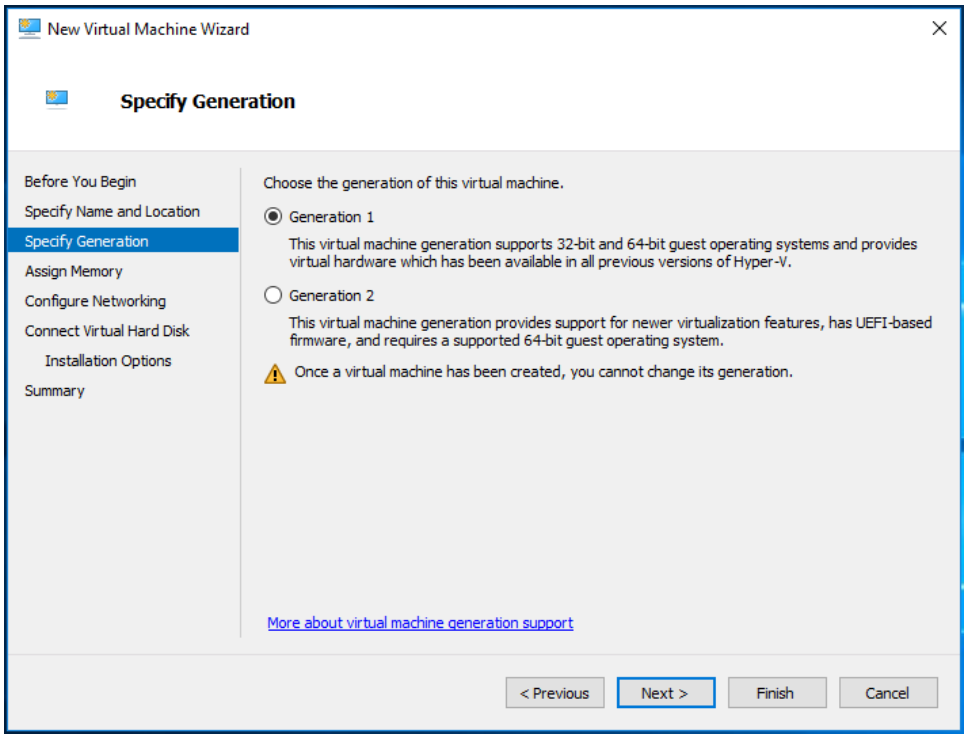

3. Click Next:



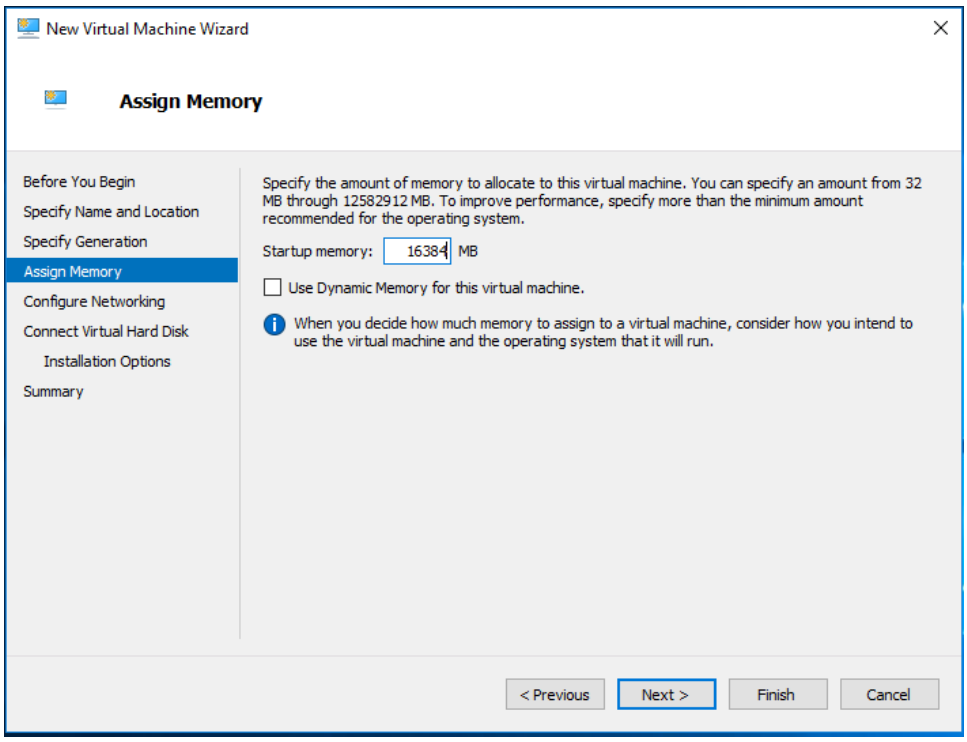
4. Enter the name of the virtual machine and click Next:



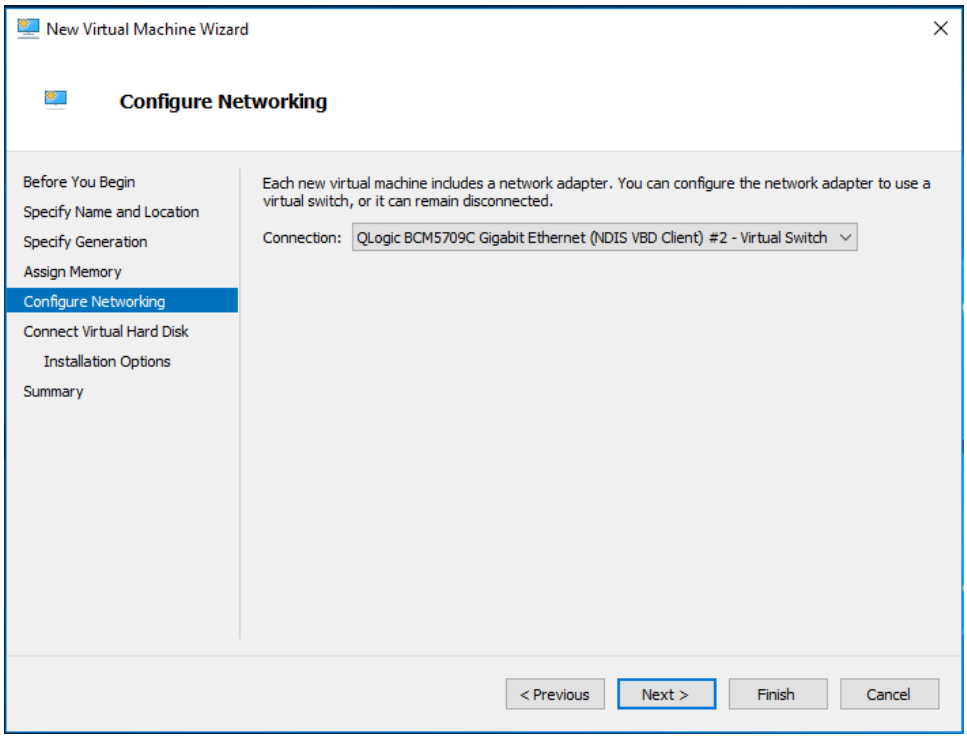

5. Select Generation 1:



6. For Startup memory, configure 16384 MB and click Next:

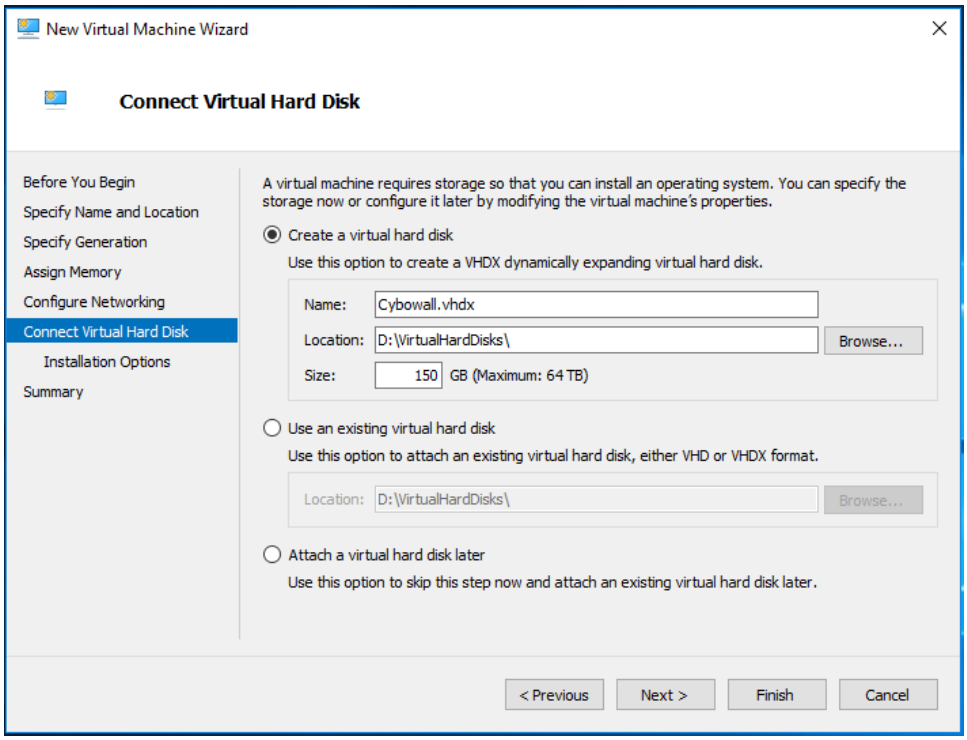



7. Select the relevant connector to be used for Management and Scanning, then click Next:

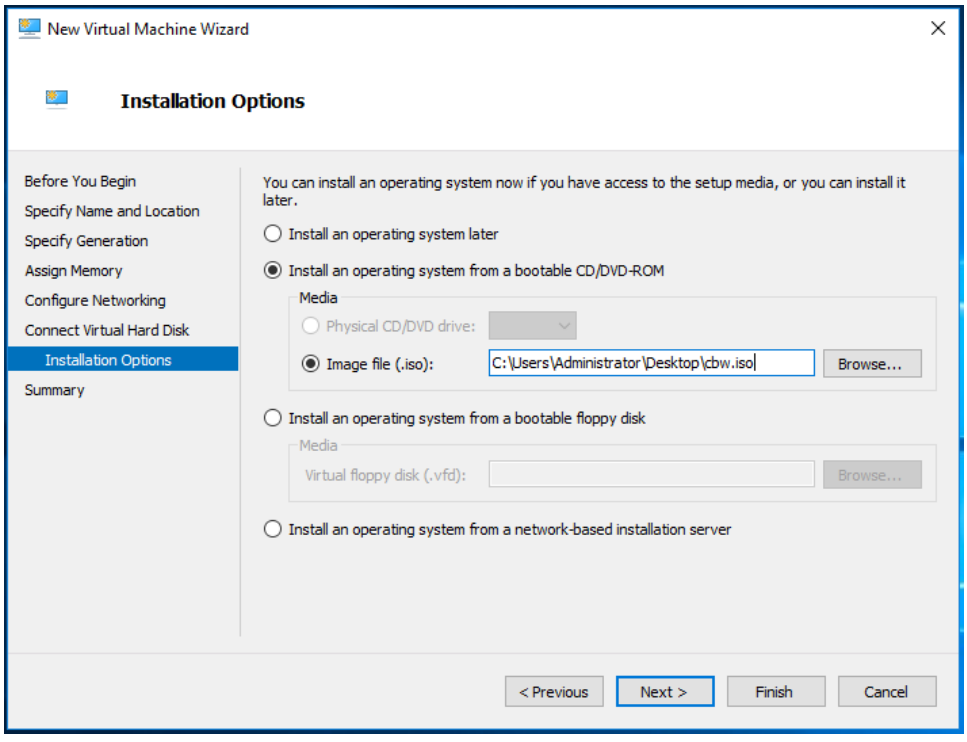



Note: Cybowall requires 2 interfaces. The 2nd interface is added after setup is complete and before turning on the Virtual Machine.

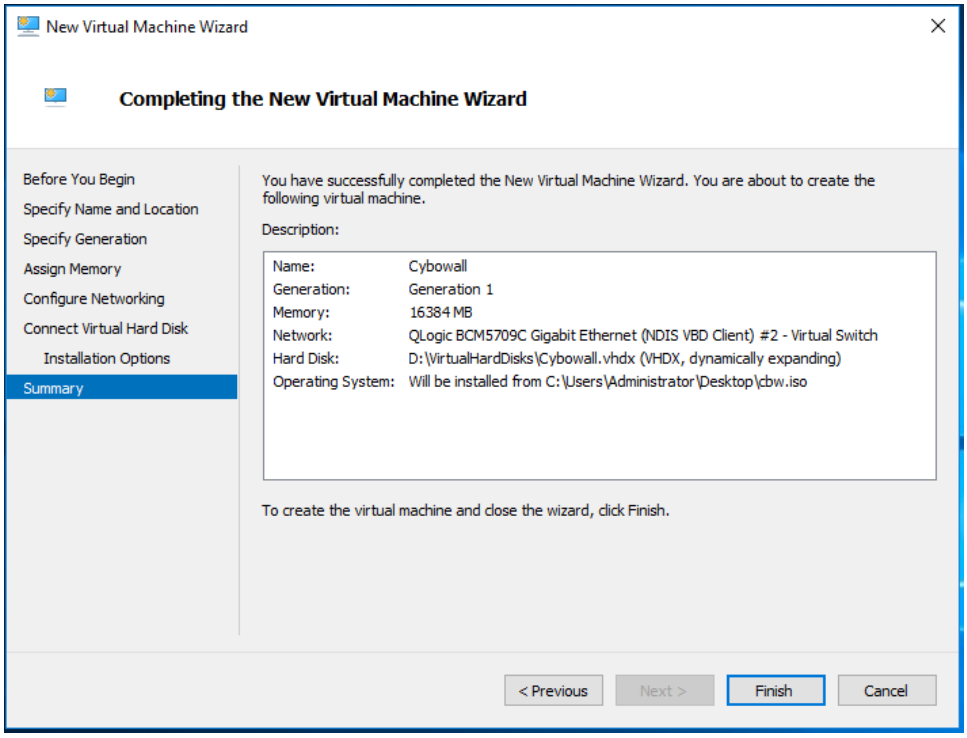
8. Select ‘Create a virtual hard disk', give it a Name (if different than the virtual machine (VM) name), Location and Size (150 GB):



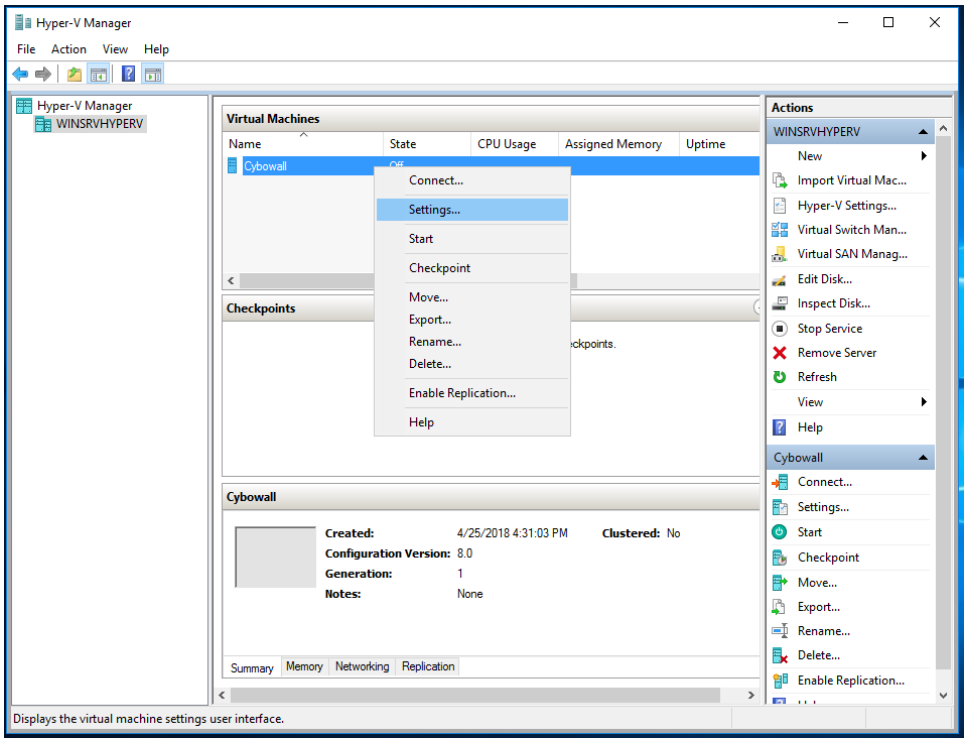

9. Select 'Install an operating system from a bootable CD/DVD-ROM', browse to the Image file (.iso) and click Next:



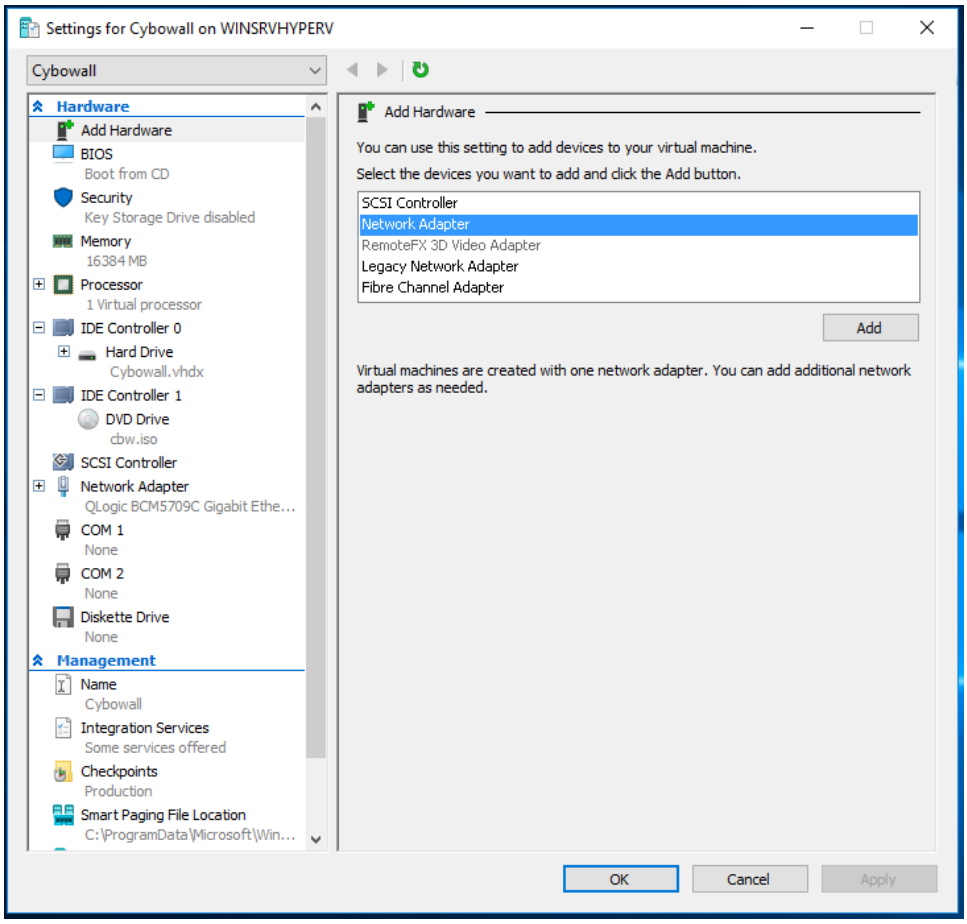
10. Review the configuration to ensure it is correct, then click Finish:



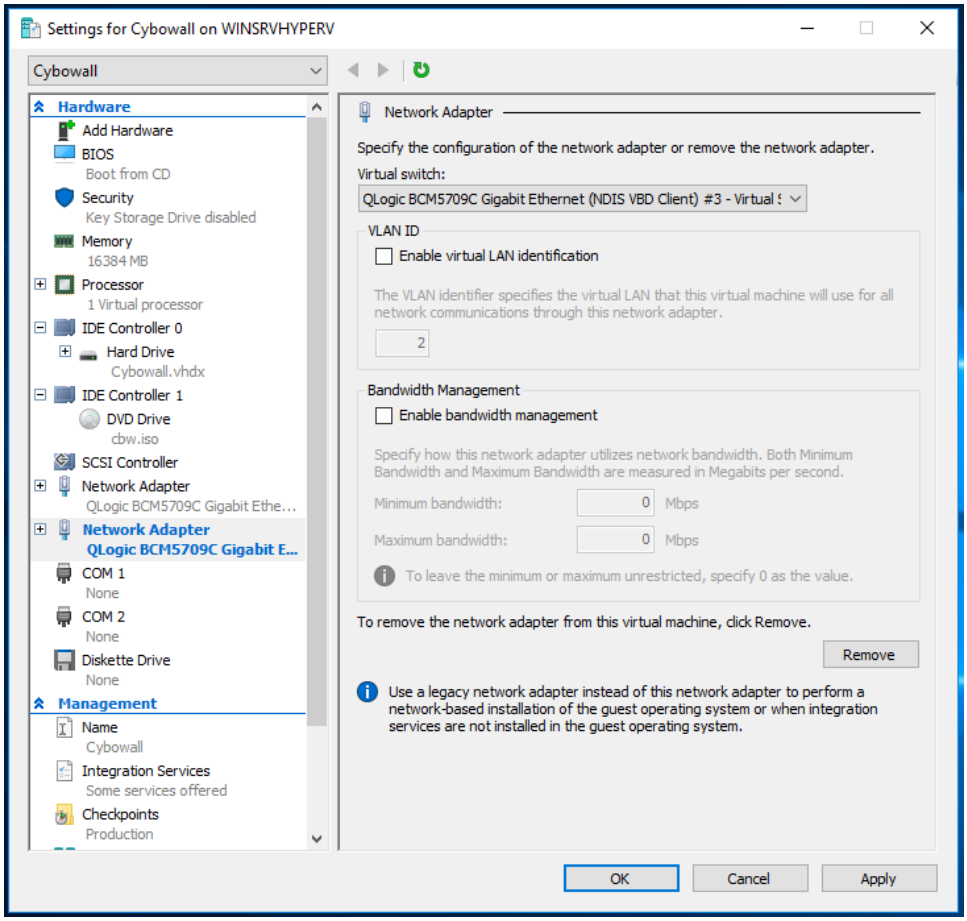

11. Before turning on the VM, it is necessary to configure several other options. In Hyper-V Manager right click the Cybowall VM and select 'Settings:



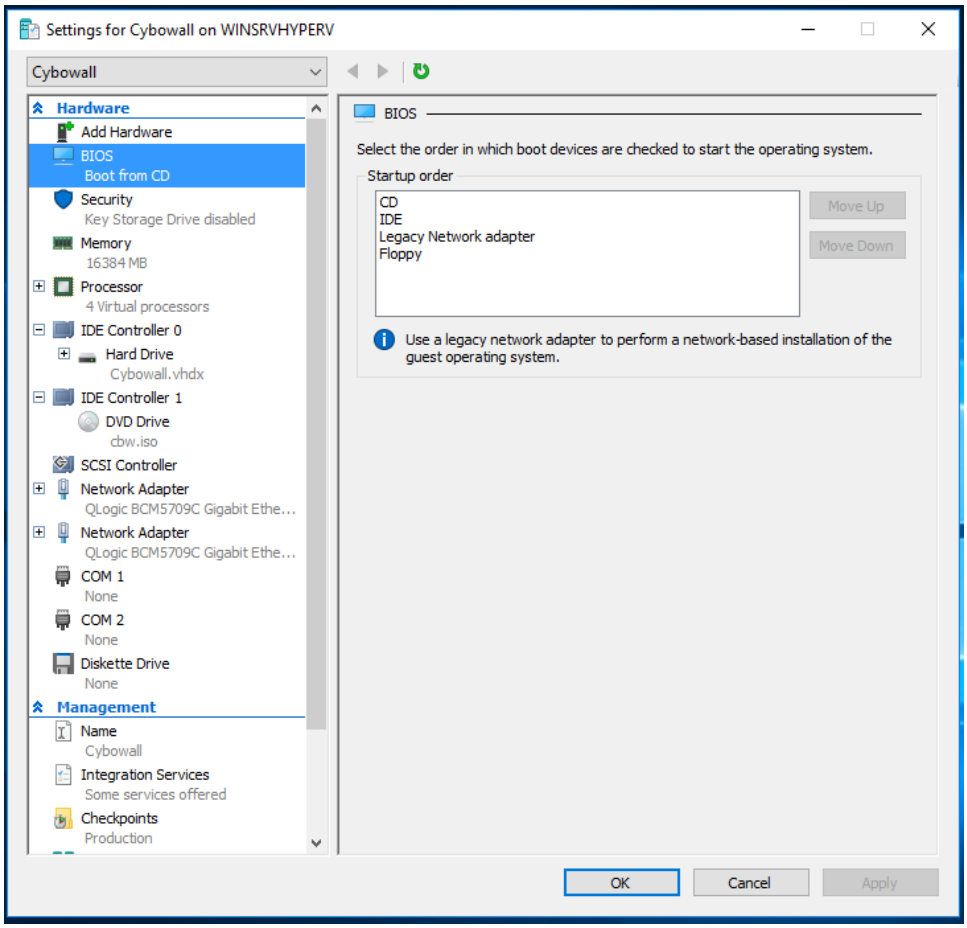
12. Click Add Hardware and choose Network Adapter:



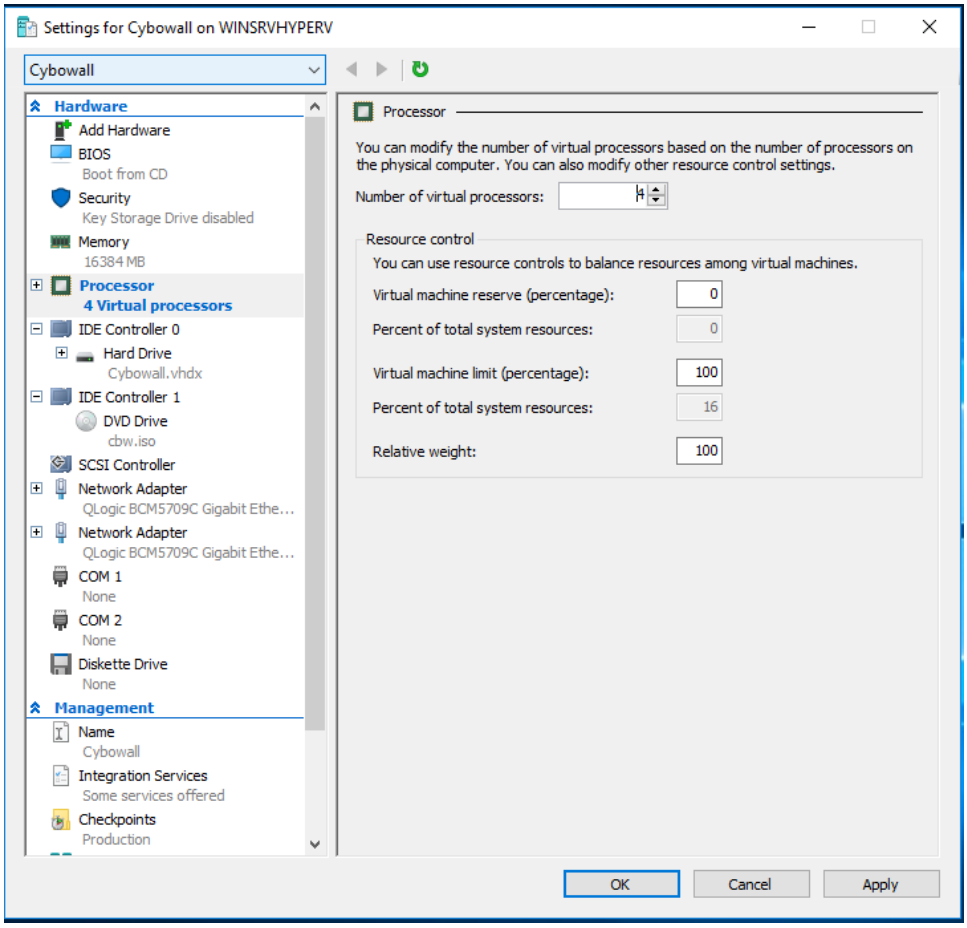
13. Select the Network Adapter added in the previous step and choose the Virtual switch relevant for Port Mirroring:



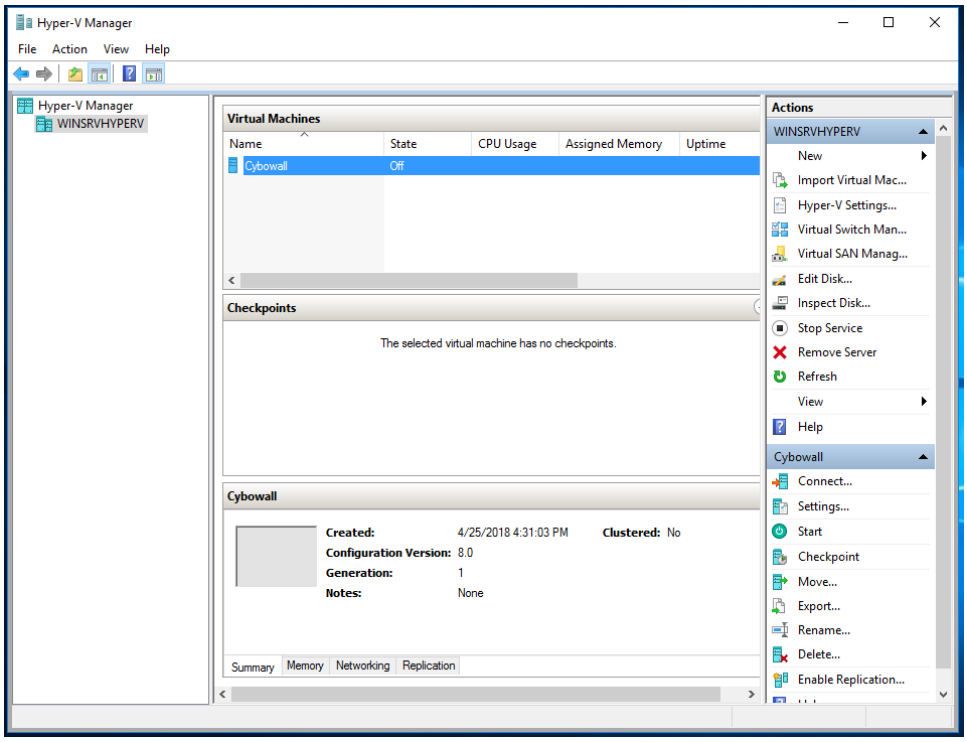
14. Select BIOS and verify that the VM is configured to Boot from CD:



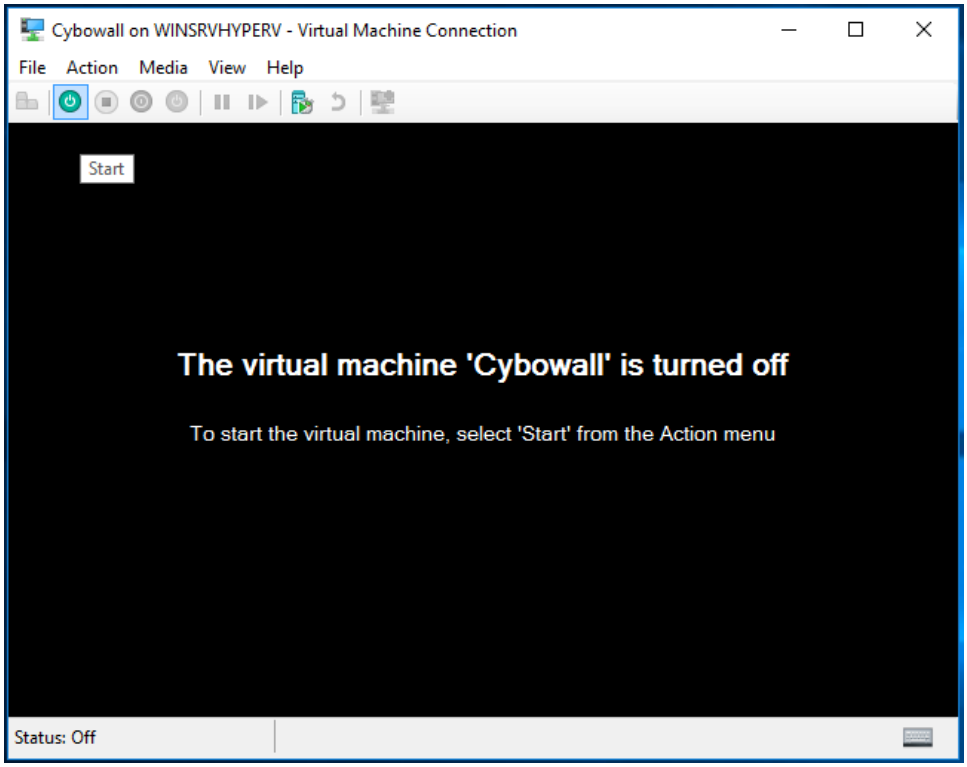
15. Select Processor and increase the 'Number of virtual processors' to 4. Click OK:



16. Return to Hyper-V Manager and double click the newly created Cybowall VM:



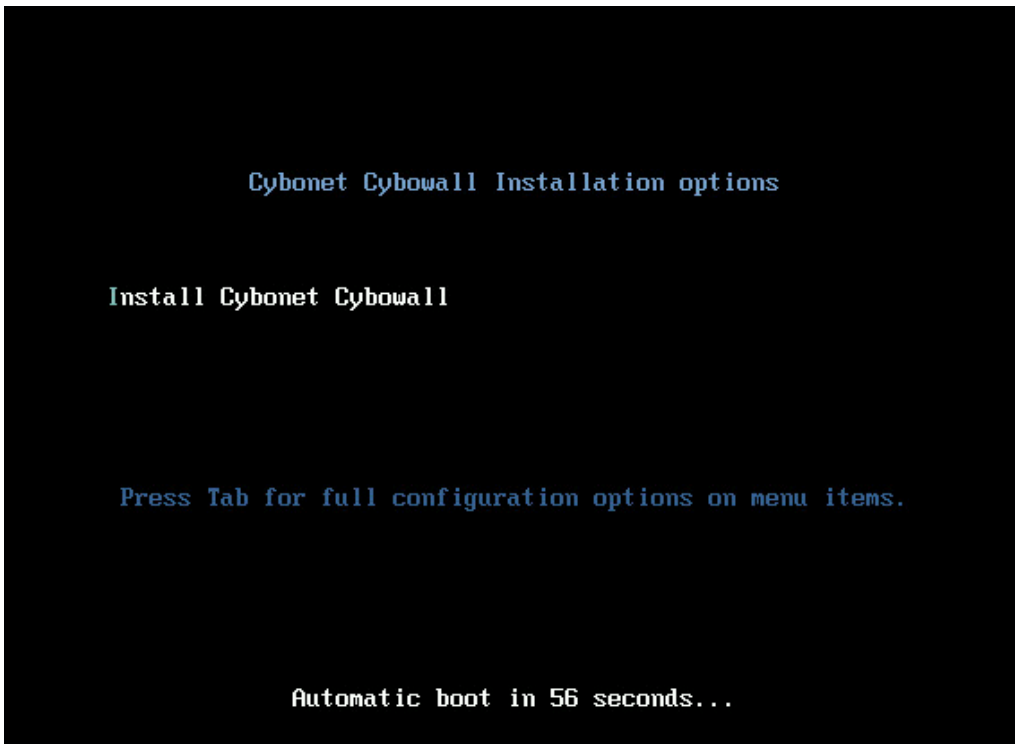
17. Start the VM by clicking the Start button:




18. Refer to the Physical Installation section on the next page and follow the instructions from step 5.

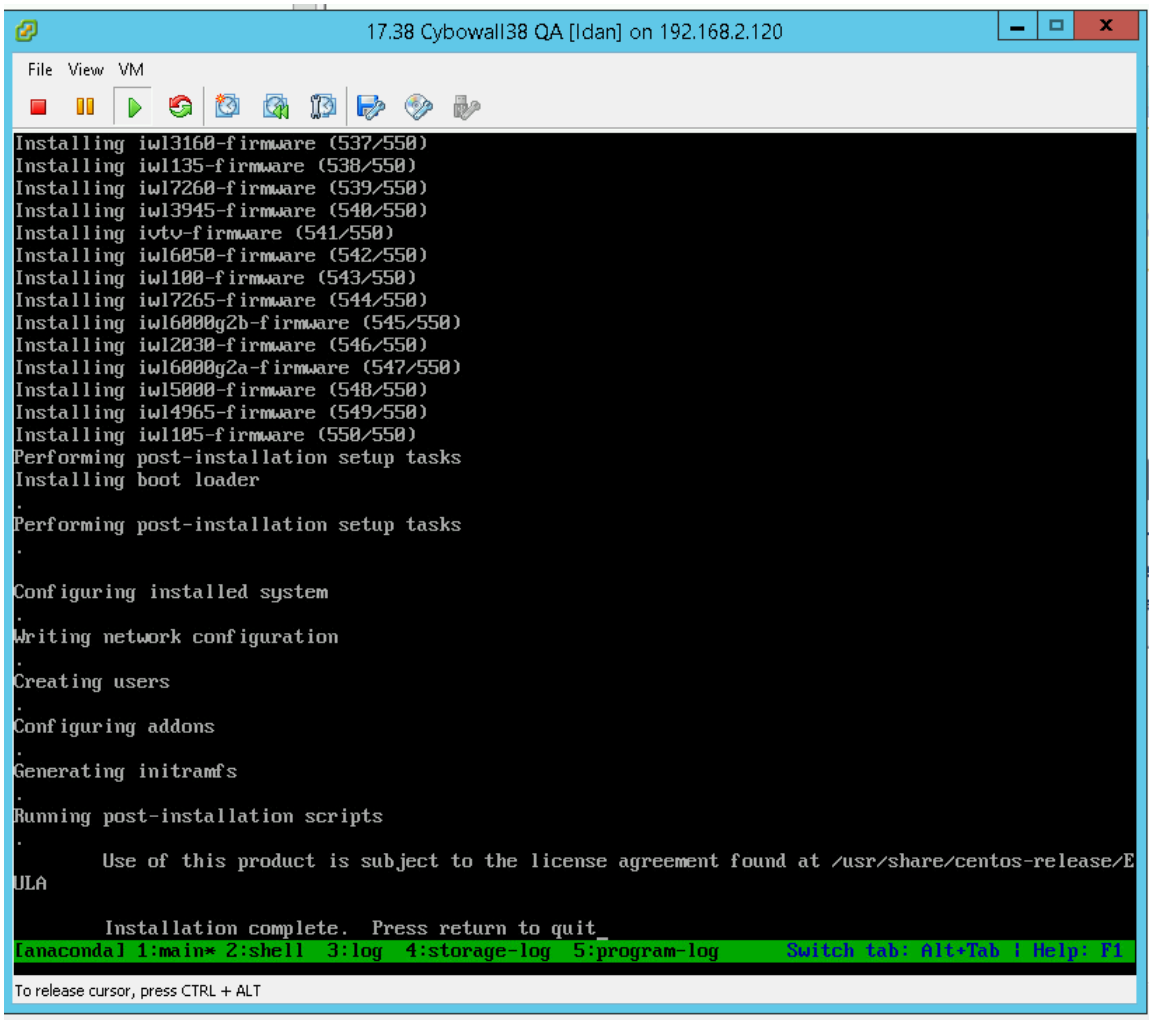
## Physical Installation

1. Place the dedicated Cybowall server in a suitable location or in a standard 1U rack mount. Be sure that the cooling vents in the rear are not blocked or obstructed.
2. Connect the power cord to the rear of the unit.
3. Power up the appliance using the power switch located in the front/rear of the unit according to the appliance. The power LED on the front panel lights up. Ensure the LED is ON before continuing.
4. Insert the CD or USB drive and boot from the relevant media.
5. Connect a screen and keyboard to the physical server or open a console on a virtual host. The following screen appears:




6. Press Enter or wait for the Automatic boot to take place. The installation process is automatic and does not require any intervention.

7. Once completed, the following screen appears. Reboot as prompted:



## Configuring the Cybowall Management IP Address

Cybowall's management IP address is configured using CLI commands.

1. If installing Cybowall in a physical environment, connect a screen and a keyboard. If installing a virtual appliance, open the console.
2. Enter the default username and password. The default username is 'admin' and the default password is 'CBWadminPa$$'
3. To access the network configuration CLI, type 'setup' and Enter
4. Type 'show interfaces' to see the IP address:

```
[cli@Cybowall] show interfaces
System's interfaces information:

Interface "eth0":
--------------------------
ID:                 1
SERVICE:            Management
IP Address:         192.168.42.84
MASK:               255.255.255.0
```

5. Configure the Cybowall management IP address by typing 'set interface eth0 X.X.X.X/YY Management':

```
[cli@Cybowall] set interface eth0 192.168.17.36/24 Management
Changes were successfully updated/saved. In order to enforce them run "applychanges"
```

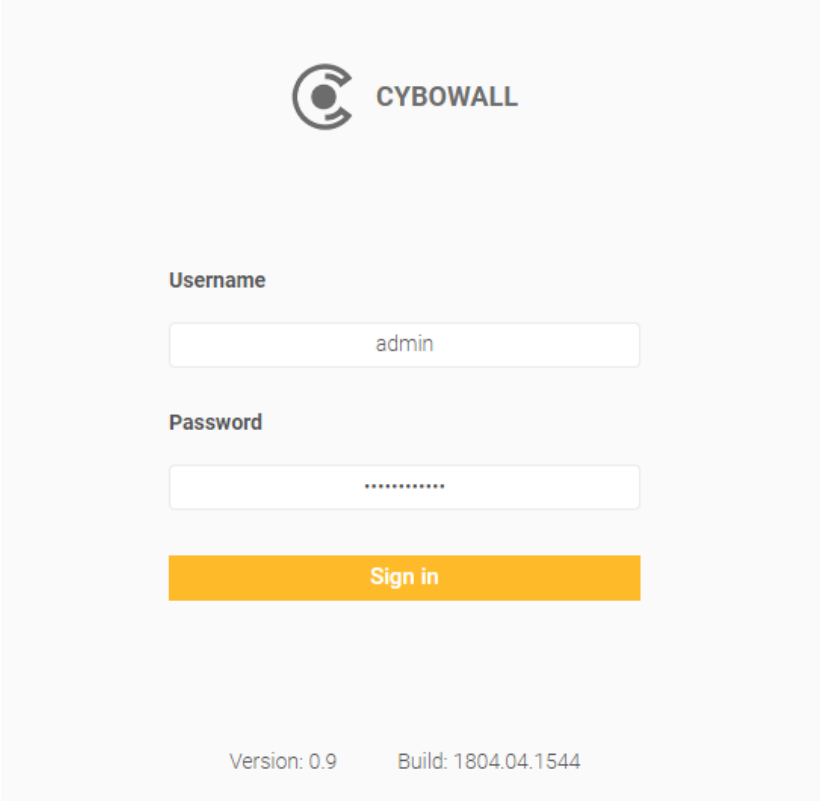
6. Configure the default gateway by typing 'set dgw X.X.X.X':

```
[cli@Cybowall] set dgw 192.168.17.254
Changes were successfully updated/saved. In order to enforce them run "applychanges"
```

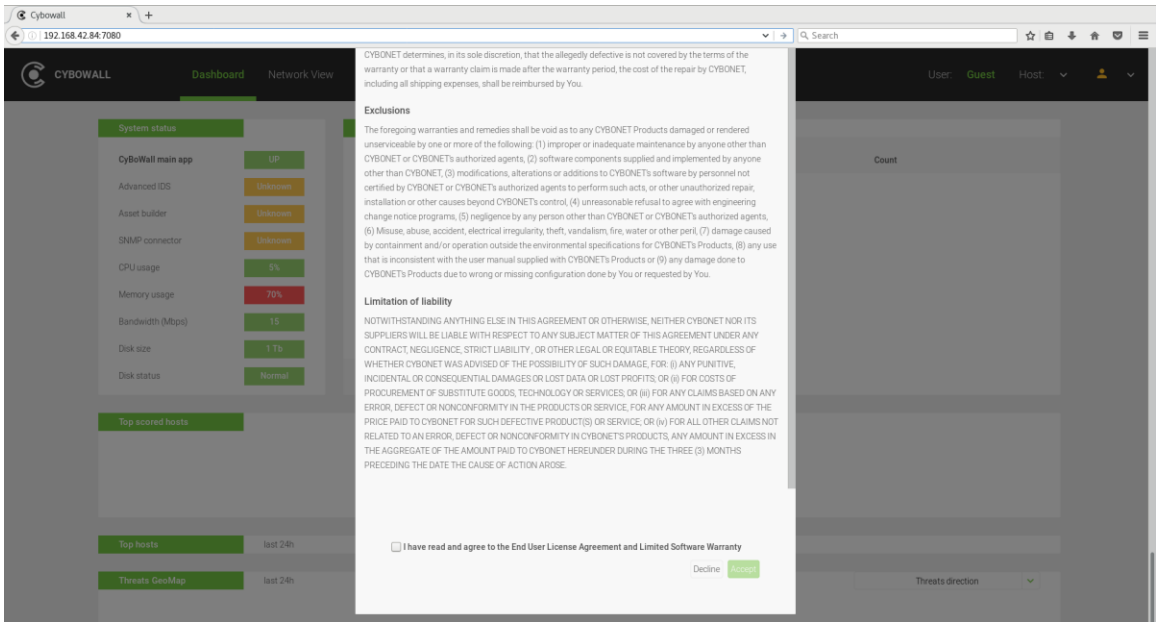
7. Run 'applychanges' to save the information.
8. Once the IP address has been changed, test connectivity and access Cybowall from the network.
9. To test connectivity, exit the CLI, by typing 'exit'. This returns to the main console – admin@Cybowall.
10. Type 'ping [gateway IP address]' to ensure connectivity.

## Additional Configuration Steps

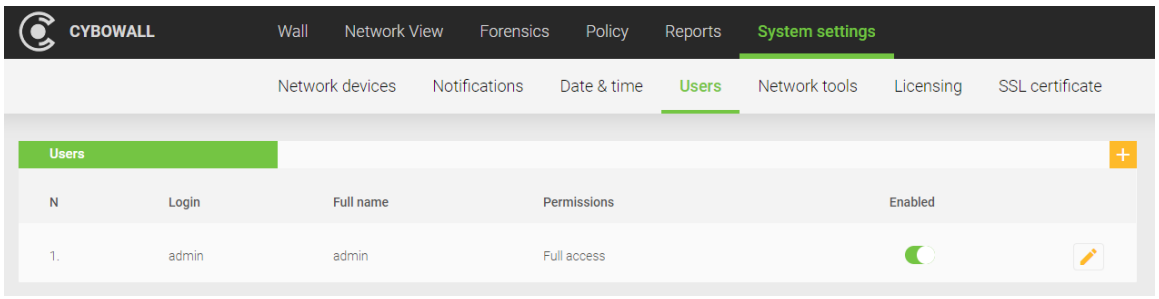
1. Open a web browser and navigate to the IP configured for Cybowall: https://X.X.X.X:7443
2. Enter the default username and password. The default username is 'admin' and the default password is 'CBWadminPa$$':



3. In order to continue, read and accept the User License Agreement:




4. Once successfully logged in, it is recommended to change the system password before continuing. Navigate from the Cybowall dashboard (the "Wall") to the System Settings > Users tab. Click the Edit icon to change the password:

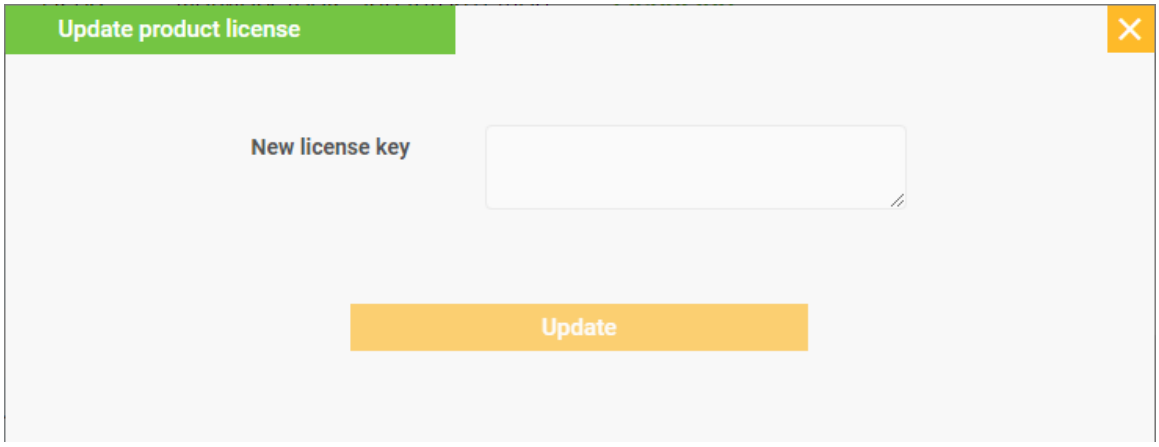



Note: It is recommended to create User accounts for each user accessing Cybowall.

## Installing the Cybowall License

After configuring Cybowall's management IP address, it is necessary to install the license key in order for the Cybowall engines to operate.

1. Navigate to System settings > Licensing.
2. Click Update. The following window appears:




3. Input the license key and click Update.

## About CYBONET

CYBONET, formerly PineApp, was originally established as an email security solutions company. Since 2002, CYBONET has been providing easy to deploy, flexible and scalable security solutions that empower organizations of all sizes to actively safeguard their networks in the face of today's evolving threats. CYBONET's product suite includes our new Cybowall solution for network visibility, vulnerability management and breach detection, our flagship PineApp Mail Secure for comprehensive email security, and our carrier-grade Outbound Spam Guard (OSG). With a continued emphasis on developing and delivering high quality solutions, and in conjunction with our valued partner community, CYBONET is dedicated to security.

For further details, contact info@cybonet.com

www.cybonet.com