How to setup the NetWatcher Virtual Machine on a computer with 2 network cards running VMware Player connected to a managed switch

For this to work you should ensure you do not have any firewall software running on the computer hosting the NetWatcher sensor Virtual Machine and that you are not blocking the following 'outbound' at the firewall:

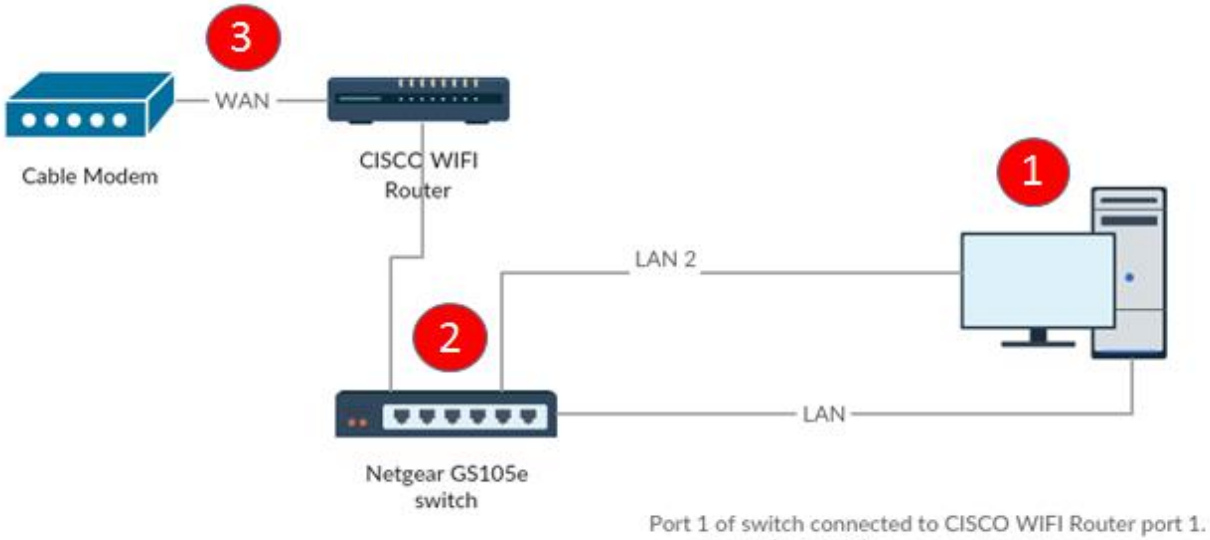
- TCP 8443 => www.defensative.com
- UDP 443 => vpn.netwatcher.com
- TCP 443 => index.docker.io
- TCP 443 => registry-1.docker.io
- TCP 443 => public.update.core-os.net

Here is the environment:

1 – the computer running VMware player and the NetWatcher sensor.

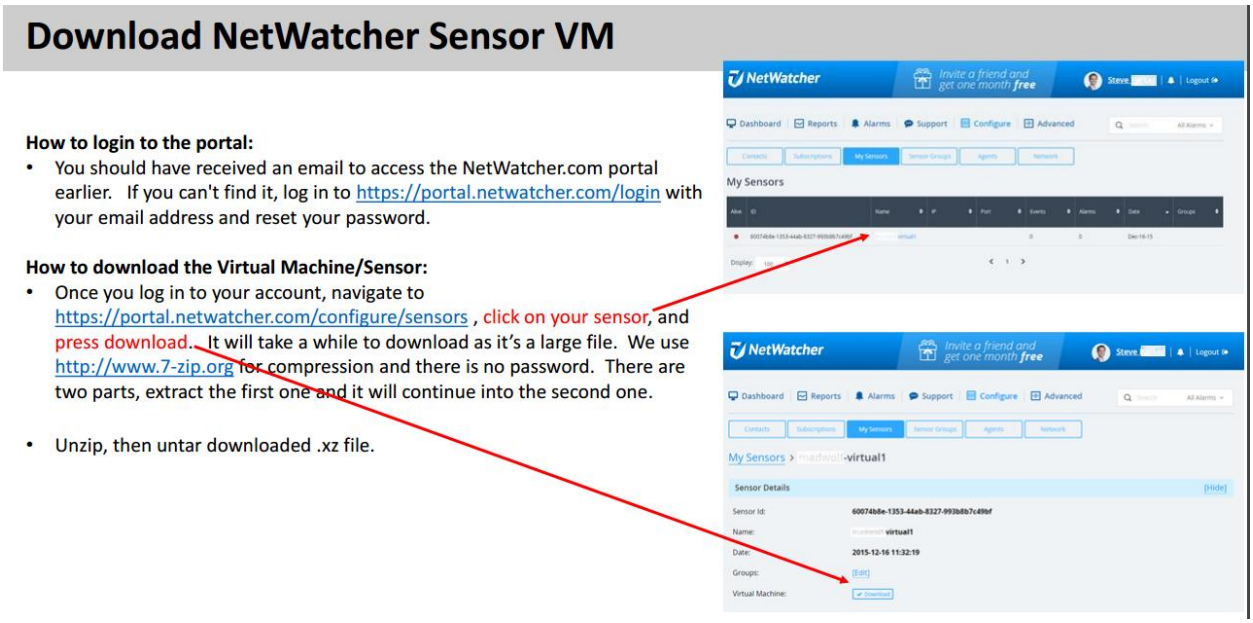
2 – an inexpensive managed switch (Netgear ProSAFE is great).

3 – an internet connection and possibly other computers attached to the switch.



Computer Network Ports	Switch
LAN 1	Port 5 (Mirror)
LAN 2	Port 4 (access to Internet / able to get DHCP address)

Step 1: Download the Virtual Sensor and install it on the computer

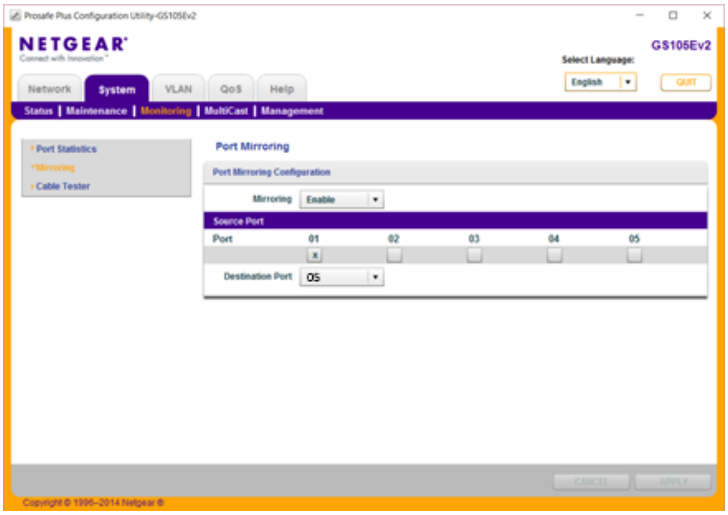


Step 2: Setup a Mirror port on the switch.

In this example configuration in the figure below you setup port mirroring under "System | Monitoring"

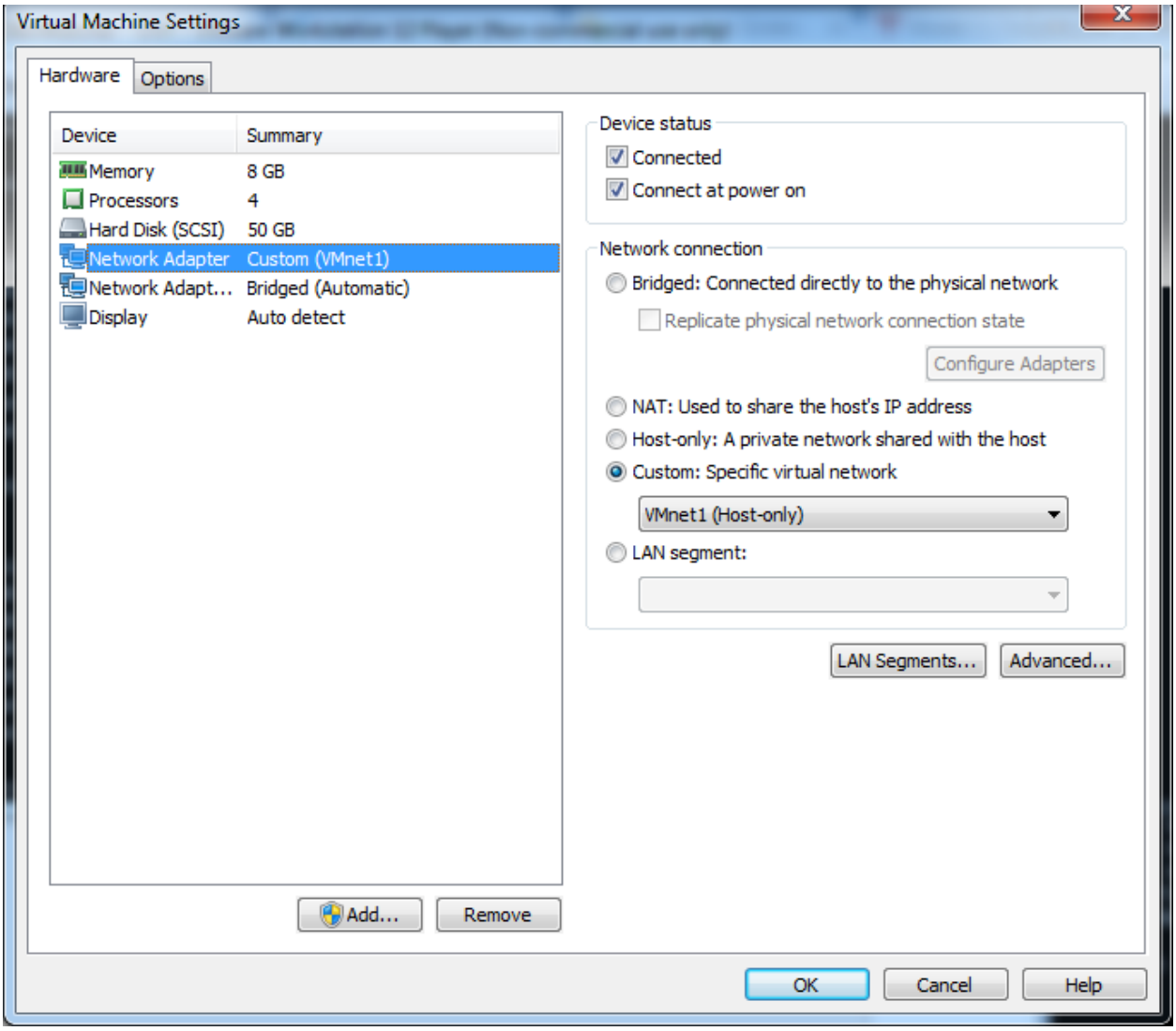
- Port 1 – connection to the internet.
- Port 4 – Computer (LAN 2) running the NetWatcher sensor (Internet access). Must be able to get DHCP address
- Port 5 – Computer (LAN 1) running the NetWatcher sensor Mirror port.

In this example we are Mirroring all traffic from Port 1 on the switch to Port 5



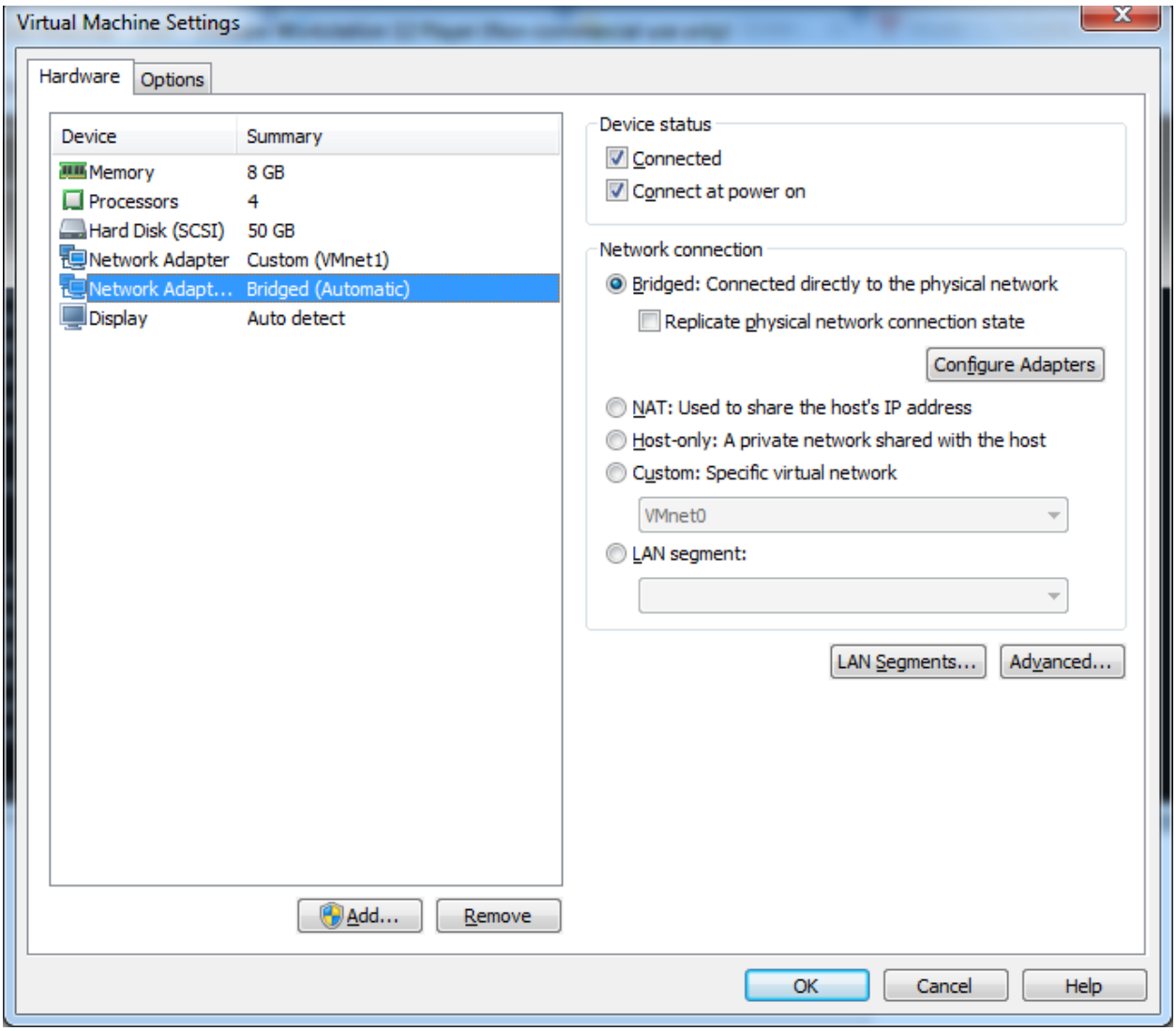
Step 4 – Set up LAN 1 on the computer and configure it to connect to the VMware player VMnet1

Computer Network Ports	VMware Ports	VMware Config	Switch
LAN 1	VMnet1	Custom: VMnet1 (Host Only)	Port 5 (Mirror)



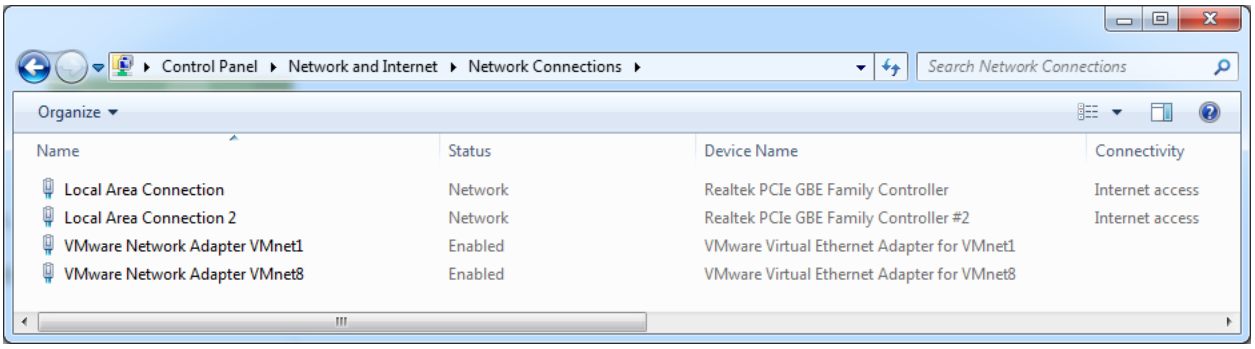
Step 5 – Setup LAN 2 on the computer and configure it to connect to the VMware player

Computer Network Ports	VMware Ports	VMware Config	Switch
LAN 2	VMnet8	Bridged	Port 4 (access to Internet / able to get DHCP address)



Step 6 – Verify Setup

6.1 Verify in Control Panel Network Connections that both network cards and both VMware adapters exist. In this example LAN 1 is the Sensor port that attaches to the Mirror on the switch and LAN 2 is the port that attaches to the internet.



6.2 Step into the VM and press enter. The VM will show the sensor's IP address as seen in the figure below.