

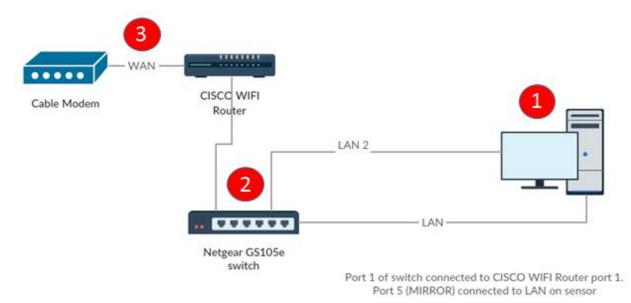
How to setup the NetWatcher Virtual Machine on a computer with 2 network cards running VMware Player connected to a managed switch

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 => <u>www.defensative.com</u>
- 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:

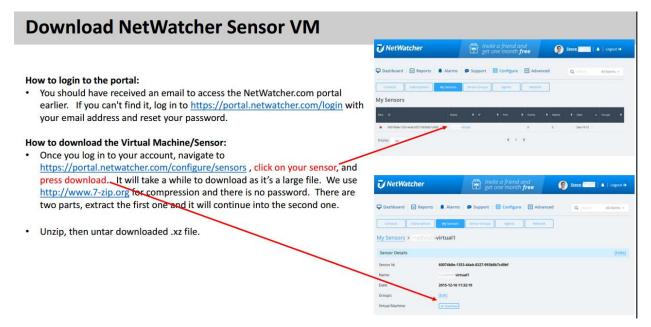
- 1 the computer running <u>VMware player</u> and the NetWatcher sensor.
- 2 an inexpensive managed switch (Netgear ProSAFE is great).
- 3 an internet connection and possibly other computers attached to the switch.



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

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Port Statistics	Port Mirroring					
	Port Mirroring Confi	puration				
Cable Tester	Mirroring	Enable				
	Source Port	-				
	Port	01	02	03	04	05
		x				
	Destination Port	05				



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)

Virtual Machine Settings	or Womanitor 12 Pager Nor or	
Hardware Options		
Device Memory Processors Hard Disk (SCSI) Network Adapter Network Adapt Display		Device status Connected Connect at power on Network connection Bridged: Connected directly to the physical network Replicate physical network connection state Configure Adapters NAT: Used to share the host's IP address Host-only: A private network shared with the host Custom: Specific virtual network VMnet1 (Host-only) LAN segment: LAN Segments Advanced
		OK Cancel Help



Step 5 – Setup LAN 2 on the computer and configure it to co	onnect to the VMware player
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Computer Network Ports	VMware Ports	VMware Config	Switch
LAN 2	VMnet8	Bridged	Port 4 (access to Internet / able to get DHCP address)

Virtual Machine Settings	or Wooddon 12 Page Nor or	
Hardware Options		
Device Memory Processors Hard Disk (SCSI) Network Adapter Display		Device status Quanteed Connected Cognect at power on Network connection Bridged: Connected directly to the physical network Replicate physical network connection state Configure Adapters 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
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		OK Cancel Help

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.

O ♥ ♥ ► Control Panel ► Network and	Internet Network Connections	🗸 📢 Search Network	Connections
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Name	Status	Device Name	Connectivity
Local Area Connection	Network	Realtek PCIe GBE Family Controller	Internet access
Local Area Connection 2	Network	Realtek PCIe GBE Family Controller #2	Internet access
VMware Network Adapter VMnet1	Enabled	VMware Virtual Ethernet Adapter for VMnet1	
VMware Network Adapter VMnet8	Enabled	VMware Virtual Ethernet Adapter for VMnet8	
III			

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

