

# How to Configure VMware ESXi for the Barracuda SSL VPN

#### https://campus.barracuda.com/doc/39816379/

If your virtual appliance is running on a VMware hypervisor, you must place the virtual network adapter for the Barracuda SSL VPN Vx in promiscuous mode so that Barracuda Network Connector can detect all frames that are passed on the virtual switch. If you have more than one physical NIC connected to the vSwitch attached to the Barracuda SSL VPN Vx, you must also reconfigure the vSwitch to use only 1 NIC.

# Promiscuous mode on a vSwitch

Place the virtual network adapter for the Barracuda SSL VPN Vx in promiscuous mode so that it can detect all frames that are passed on the virtual switch.

If you have already set up a Barracuda SSL VPN Vx system but did not enable promiscuous mode, you may encounter issues in which the network connectivity seems intermittent. Experience suggests that the virtual interface does not receive all of the packets that it should. As a result, Barracuda Networks recommends that you configure a port group to allow promiscuous mode.

- 1. Log into the vSphere client, and select the ESX host.
- 2. Click the **Configuration** tab.
- 3. From the Hardware menu in the left pane, select Networking.
- 4. On the summary page for the virtual switch, click the **Properties** link.



In the properties window that opens, you can modify the vSwitch configuration by port group. Virtual port groups are listed under the **Ports** tab. Physical network interface cards in the server are listed under the **Network Adapters** tab. To see a summary of a port group's settings, click



its name. In the figure below, you can see that **Promiscuous Mode** is set to **Reject** (off).

ts Network Adapters			
Configuration Summary		vSwitch Properties	
vSwitch Packet-100V	56 Ports Virtual Machine Virtual Machine Virtual Machine VMotion and JP Virtual Machine	Number of Ports:	56
Control-100V		Default Policies	
M Network           Management Net           Promiscuous VLAN		Security	
		Promiscuous Mode:	Reject
		MAC Address Changes:	Accept
		Forged Transmits:	Accept
		Traffic Shaping	
		Average Bandwidth:	
		Peak Bandwidth:	
		Burst Size:	
		Failover and Load Balancing	
		Load Balancing:	Port ID
		Network Failure Detection:	Link Status only
		Notify Switches:	Yes
		Falback:	Yes
		Active Adapters:	vmnic0
		Standby Adapters:	None
Add	Edt Renove	Unused Adapters:	None

- 5. Add a port group.
  - 1. Under the **Ports** tab, click **Add**.
  - 2. Select Virtual Machine, and click Next.
  - 3. Enter a **Network Label**.
  - 4. Click Finish.
- 6. Set the port group to promiscuous mode.
  - 1. Select your new port group, and click **Edit**.

	Network Adapters				
Coré	iguration	Summary	Port Group Properties		
却	vSwitch	56 Ports	Network Label:	Promiscuous Port Group	
0	Packet-100V	Virtual Machine	VLAN ID:	Al	
8	Control-100V	Virtual Machine	Effective Policies		
2	Management Net	Virtual Isacrime	Security		
ŏ	Promiscuous VLAN	Virtual Machine	Promiscuous Mode:	Reject	
0	Promiscuous Port	Virtual Machine	MAC Address Changes:	Accept	
			Forged Transmits:	Accept	
			Traffic Shaping		
			Average Bandwidth:	-	
			Peak Bandwidth:	-	
			Burst Size:	-	
			Failover and Load Balan	icing	
			Load Balancing:	Port ID	
			Network Failure Detection	: Link Status only	
			Notify Switches:	Yes	
			Faiback:	Yes	
			Active Adapters:	vmcic0	
		And the second second	Standby Adapters:	None	
Ac	id	Edit Remove	Unused Adapters:	None	

2. Click the **Security** tab.



- 3. From the Promiscuous Mode list, select Accept.
- 4. Click **OK**, and then click **Close**.
- 7. Set your VM client to the new port group.
  - 1. Right-click the Barracuda SSL VPN virtual machine, and select Edit Settings.
  - 2. In the left pane, click Network Adapter 1.
  - 3. In the **Network Connection** section, select the port group that you just created and click **OK**.



## VMware ESXi NIC teaming

To avoid network connectivity issues when using Network Connector, you must have only a single physical NIC configured in the VMware vSwitch for the SSL VPN. If you have more than one physical NIC attached to the vSwitch, you must remove them, even if they are in standby mode or load balanced. Once you have reconfigured the vSwitch to use only 1 NIC, you will be able to reconnect using Network Connector and ping your internal devices.



## Figures

- 1. servletImageServer.jpg
- 2. servletImageServer2.jpg
- 3. servletImageServer3.jpg
- 4. servletImageServer4.jpg

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