

How to Add or Remove Network Interfaces on a Virtual Firewall on the VMware Hypervisor

<https://campus.barracuda.com/doc/18197/>

This article only affects firewalls that have been deployed fresh with firmware 8.3.1

If you are required to add or remove a network interface on the virtual firewall, the initial order of the interfaces might get disrupted. This happens because the assignment of interfaces to MAC addresses causes these interfaces to be sorted differently on the hypervisor.

In order not to lose the connection, both to the MIP and to all the other connected interfaces, a workaround is necessary that enables the virtual interfaces on the firewall to be reconnected to the appropriate ports of the virtual switch on the VMware hypervisor. The information for this can be obtained on the firewall. The changes must be done on the hypervisor.

The following instructions provide an example only, and assume that all interfaces are connected to different virtual switches. Be sure to adapt the configuration values to your individual network setup.

Step 1. Check the Assignment of the Firewall's Interfaces to the Virtual MAC Addresses

Before making any changes to your network adapters, you must check the current assignment of the firewall's interfaces to the virtual MAC addresses.

1. Log into your virtual firewall with Firewall Admin.
2. Go to SSH.
3. Log into the terminal to get access to a shell.
4. Enter the following string, and execute the related shell script to check the current assignment of the network interfaces:
`/opt/phion/bin/listMacAddresses.sh` followed by pressing the **Return** key.
5. Your firewall should display something similar to this:
[root@your_VM:~]# `/opt/phion/bin/listMacAddresses.sh`
eth3 00:0c:29:3c:eb:25
eth1 00:0c:29:3c:eb:11
eth2 00:0c:29:3c:eb:1b
eth0 00:0c:29:3c:eb:2f
6. At this point, let's assume that all interfaces are connected to different virtual switches on the hypervisor.

Interfaces	MAC-Address	Virtual Switch
eth3	00:0c:29:3c:eb:25	4
eth1	00:0c:29:3c:eb:11	2

7. Write down your displayed assignment of the interfaces to the virtual MAC addresses.

Step 2. Add or Remove Network Adapters on Your Hypervisor to Match Your Requirements

- Console
 Monitor
 Power on
 Shut down
 Suspend
 Restart
 Edit
 Refresh
 Actions

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Guest OS

Compatibility

VMware Tools

CPU's

Memory

Host name

Other 3.x or later Linux (64-bit)

ESXi 6.5 virtual machine

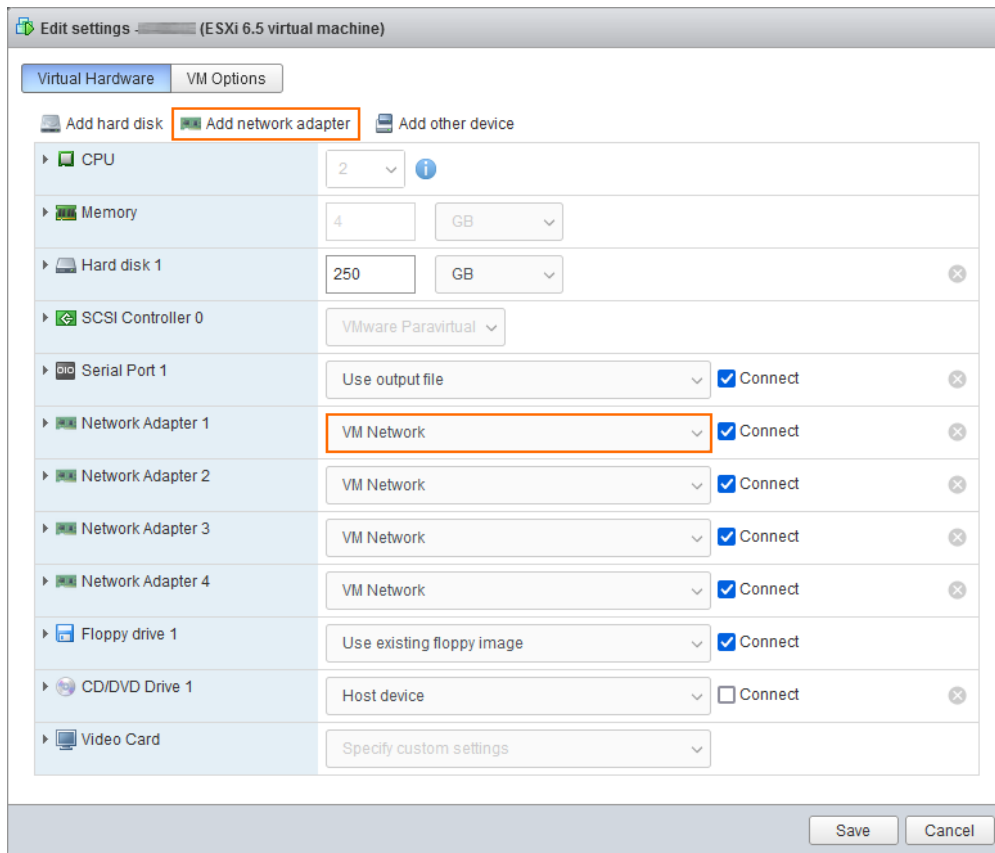
Yes

2

4 GB

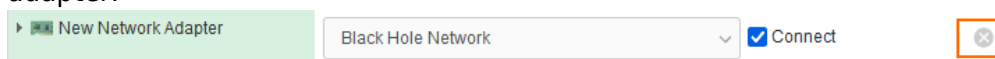
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9. Option 2: Remove a network adapter.

1. To remove a network adapter, click **x** at the end of the line of the related network adapter.

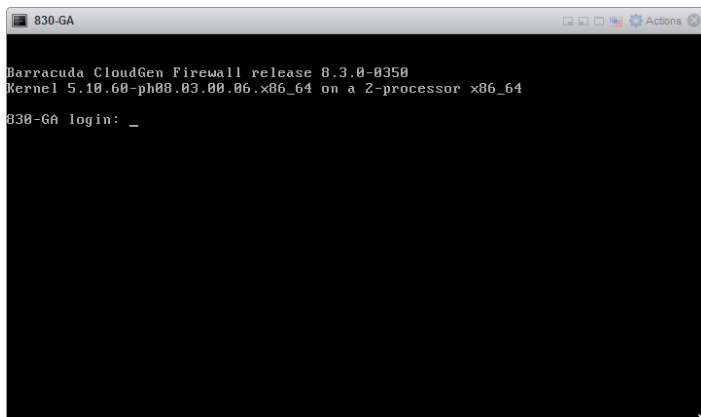


10. Click **Save**.

Step 3. Check the Assignment of Interfaces to MAC Addresses on Your Firewall

After having added or removed the required network adapters, you must check the assignment of the interfaces to their MAC addresses.

1. Turn on your virtual firewall on your hypervisor.
2. On your hypervisor, click **Console** to activate the console window.
3. Wait until the console is set to receive commands via the keyboard.



4. Log into your firewall via SSH.
5. Enter the following string and execute the related shell script to check the current assignment of the network interfaces:
`/opt/phion/bin/listMacAddresses.sh` followed by pressing the **Return** key.

Step 4. Compare the Output of the MAC Addresses in Your Terminal Window with the Output from Step 1

If the MAC addresses have been shifted after adding or removing a network adapter, you now must ensure that the interfaces on your firewall are connected to the appropriate virtual switch on your hypervisor. Otherwise, you may lose the connection to your firewall from Firewall Admin.

As part of this example, the following table displays the modified assignment of your interfaces to the MAC addresses and their connection to the virtual switch.

Interfaces	MAC Addresses	Virtual Switch Allocation OLD	Virtual Switch Allocation NEW
eth3	00:0c:29:3c:eb:3a	5	4
eth1	00:0c:29:3c:eb:1b	3	2
eth2	00:0c:29:3c:eb:25	4	3
eth0	00:0c:29:3c:eb:11	2	1
eth4	00:0c:29:3c:eb:2f	1	5

The column **Virtual Switch Allocation NEW** shows how the virtual network cabling must now be laid out on your virtual switch.

Step 5. Verify that Your Firewall is Reachable on Its Management IP Address

1. Log into a PC and open a terminal window.

2. Send some ping packets to your firewall by entering `ping <firewall's MIP>` followed by pressing the **Enter** key.
3. If error messages like "host not reachable" are displayed in the terminal window, you must recheck the connections from your firewall to the virtual switch.

If no errors are reported in the terminal window, you can now connect to your firewall via Firewall Admin.

Figures

1. VMhost_actions.png
2. VMhost_add_network_adapter.png
3. VMhost_delete_network_adapter.png
4. VMhost_console_ready.png

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