

# How to Deploy a NextGen F-Series Vx using F-Series Install on a VMware Hypervisor

https://campus.barracuda.com/doc/53248766/

The OVA package uses a default configuration that may not be suitable for your deployment. If you want to use multiple network interfaces, a different type of network adapter, or a bigger size for the virtual disk, use Barracuda F-Series Install to create the custom configuration files that you need to deploy the Barracuda NextGen Firewall F-Series Vx with your specific settings.

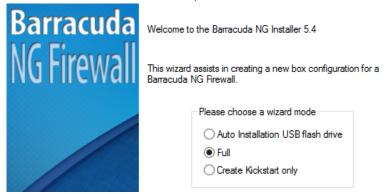
# **Before You Begin**

- From the <u>Barracuda Download Portal</u>, download the following:
  - The ISO image for the Barracuda NextGen Firewall F-Series Vx version that you want to install. There is only one ISO for the Barracuda NextGen Firewall F-Series and Barracuda NextGen Control Center.
  - Barracuda F-Series Install for the firmware version that you are going to install.
- <u>Download and install Winlmage</u> or a comparable utility to create *flp* floppy images.
- You must install the <u>Visual C++ Redistributable for Visual Studio 2012</u> on your computer to use Barracuda F-Series Install.
- Decide on the sizing requirements for your Barracuda NextGen Firewall F-Series Vx. For more information, see <u>Virtual Systems (Vx)</u>.

# Step 1. Create Configuration Files with Barracuda F-Series Install

Create the configuration files with Barracuda F-Series Install.

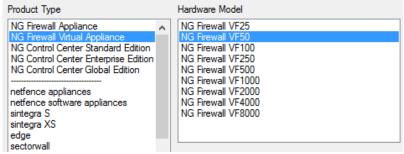
- 1. Start Barracuda F-Series Install.
- 2. Select the Full wizard mode, and then click Next.



3. On the **Box Type Settings** page, select the **Product Type** and **Hardware Model** for your virtual appliance. You can configure Barracuda NextGen Virtual Appliances and Barracuda

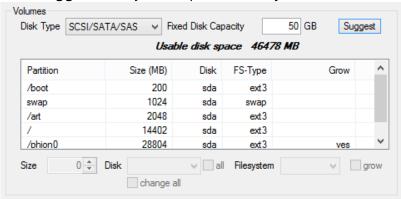


NextGen Control Centers. After making your selections, click Next.



#### 4. On the **Systems Settings** page:

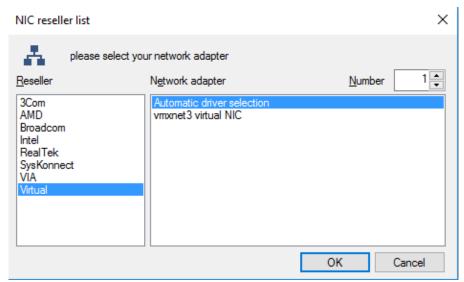
- 1. Enter the following settings:
  - **Hostname** Enter a hostname (e.g., Barracuda NextGen Firewall F-Series VF50).
  - **Timezone** Select the timezone that the appliance is in.
  - Keyboard Layout Select the keyboard layout for the console of the Barracuda NextGen Firewall F-Series Vx.
  - **DNS** Enter the DNS servers for your network.
  - **Domain Suffix** Enter the domain that your appliance is in.
  - Use NTP & IP Enable NTP and enter the IP address for the NTP server.
- 2. Click Next.
- 5. On the **Partition Settings** page:
  - 1. In the **Fixed Disk Capacity** field, enter the virtual disk size in gigabytes. Barracuda Networks recommends that you use disks that are at least the sizes recommended in <u>Firewall Settings</u>.
  - 2. Click **Suggest** to adjust the partitions to your disk size.



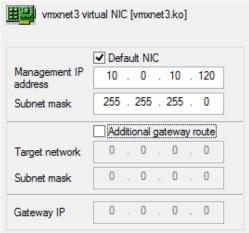
3. Click Next.

- 6. On the **Network Device Settings** page:
  - 1. Click **Add** and then specify these settings in the **NIC reseller list** window:
    - Reseller Select Virtual.
    - Network adapter Select Automatic driver selection.
    - Number Select the number of network interfaces.

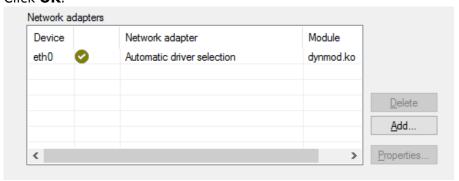




- 2. Click **OK**.
- 3. Double-click the **eth0** network interface in the **Network Adapter** table and then specify these settings in the **NIC adapter configuration** window:
  - Management IP address Enter the IP address that you want to use as the management IP address.
  - Subnet mask Enter the subnet mask.
  - (Optional) Configure an **Additional Gateway route**.



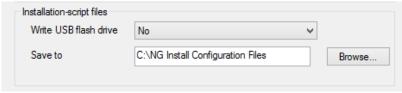
4. Click OK.



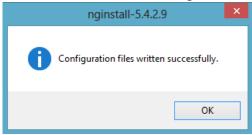
- 5. Click Next.
- 7. On the **Security Settings** page, enter the **Password** and **Service Login Password** and then click **Next**.



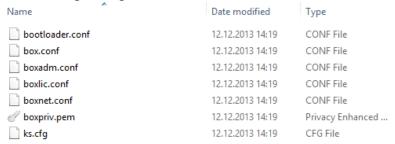
- 8. On the **Software Packages** page, click **Next**.
- On the Script Settings page, enter the destination for your configuration files in the Save to field.



- 10. Click Next.
- 11. Click **Finish**. After the configuration files are successfully created, a message appears.



The following configuration files are created in the destination that you selected:

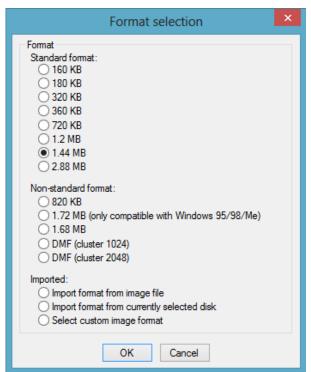


Step 2. Create a Floppy Image with WinImage

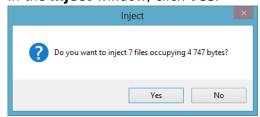
Add the configuration files that you created with Barracuda F-Series Install to a floppy image FLP file. You will attach this image to the VMware virtual machine during installation.

- 1. Start WinImage.
- 2. Locate the configuration files that you created with Barracuda F-Series Install.
- 3. Select all the Barracuda F-Series Install configuration files and drag them to the Winlmage window.
- 4. In the **Format selection** window, select **1.44 MB** from the **Standard format** list and then click **OK**.

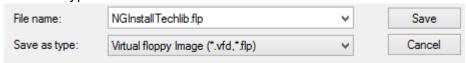




5. In the Inject window, click Yes.



- 6. Click the **Save** icon.
- 7. In the **Save as** window:
  - 1. Select Virtual floppy Image (\*.vfd,\*.flp) from the Save as type list.
  - 2. Enter a **File name** with the .flp extension (e.g., NGInstallFloppy.flp). Otherwise, WinImage saves the floppy image with the .vfd extension, which cannot be used by the VMware hypervisor.



3. Click Save.

# Step 3. Create a New Virtual Machine

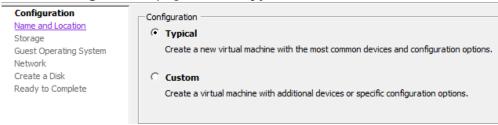
On the VMware server, create a new virtual machine for the Barracuda NextGen Firewall F-Series Vx.

- 1. Using VMware vSphere Client, log into your VMware hypervisor.
- 2. Right-click the VMware server that you want to deploy the Barracuda NextGen Firewall F-Series Vx image on and select **New Virtual Machine**. The **Create New Virtual Machine** window

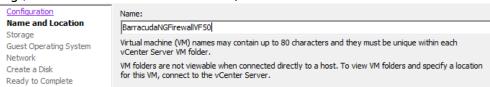


opens.

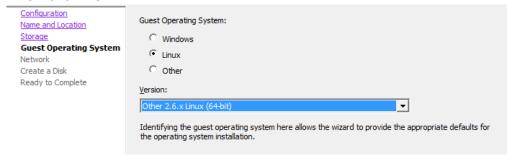
3. On the Configuration page, select Typical and then click Next.



4. On the **Name and Location** page, enter a **Name** for the virtual machine (e.g., BarracudaNGFirewallVF50) and then click **Next**.



- 5. On the **Storage** page, select the datastore where the virtual disk should be created and then click **Next**.
- 6. On the **Guest Operating System** page:
  - 1. From the Guest Operating System list, select Linux.
  - 2. From the Version list, select Other 2.6.x Linux (64-bit).
  - 3. Click Next.



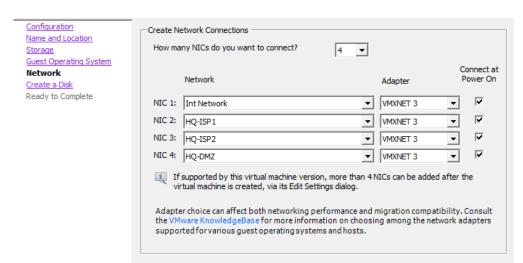
#### 7. On the **Network** page:

1. Select the number of network interfaces from the **How many NICs do you wan to connect** list. The number must match the number of network interfaces that you selected in <u>Step 1</u>. Create Configuration Files with Barracuda F-Series Install.

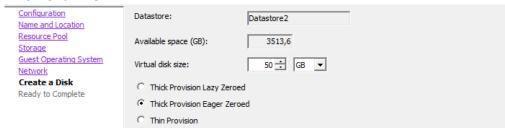
You can only add four network interfaces in the **Create New Virtual Machine** wizard. If you need more than four virtual network interfaces, add the additional NICs by editing the finished virtual machine configuration. VMware limits the number of virtual network interfaces per guest OS to 10.

- 2. For every NIC, specify these settings:
  - Network Select the virtual network that the virtual interface will connect to.
  - Adapter Select VMXNET 3. The adapter must match the Barracuda F-Series
     Install configuration. Barracuda Networks recommends using the VMXNET3 driver.
  - Connect at Power On Select this check box to connect the NIC to the VM.
- 3. Click Next.





- 8. On the Create a Disk page:
  - 1. Enter the Virtual disk size. For more information, see Firewall Settings.
  - 2. Select Thick Provision Eager Zeroed.
  - 3. Click Next.

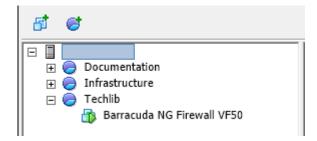


- 9. On the Ready to Complete page, click Finish. Depending on your virtual disk size, it can take a couple of minutes for the VM to be created. You can view the status of the Create Virtual Machine task in the Recent Tasks pane at the bottom of the vSphere Client window.
- 10. Right-click the VM that you created and then select **Edit Settings**.
- 11. In the Virtual Machine Properties window:
  - 1. Configure the **Memory** and **CPUs** according to your Barracuda NextGen Firewall F-Series Vx model.

Do not assign more than the licensed number of vCPUs to your virtual machine. For more information, see Licensing.

2. Click OK.

Your virtual machine is now listed in the left pane under the VMware server that you created it on.

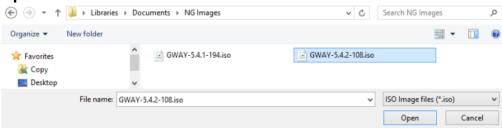




## Step 4. Start the Virtual Machine

Connect the Barracuda NextGen Firewall F-Series Vx ISO and the floppy image to the virtual machine for the automated installation.

- 1. Using VMware vSphere Client, log into your VMware hypervisor.
- 2. Power on your Barracuda NextGen Firewall F-Series Vx virtual machine.
- 3. From the taskbar, click the CD icon (), click CD/DVD Drive 1, and then select Connect to ISO image on local disk.
- 4. Select the Barracuda NextGen Firewall F-Series Vx ISO file on the local hard disk and then click **Open**.



- 5. Press Ctrl + Alt + Ins to reboot the VM.
- 6. At the **Welcome to Barracuda NextGen Firewall F-Series** boot prompt, press any key except to stop the 10 second timeout.

```
Welcome to Barracuda NG Firewall 5.4.2-108

CA

Please insert the kickstart-disc and press (ENTER).

WARNING! WARNING! WARNING!

All information on your disks will get destroyed during installation.

Barracuda Networks, Inc. mail: info@barracuda.com
3175 Winchester Blvd
Campbell, California 95008
United States

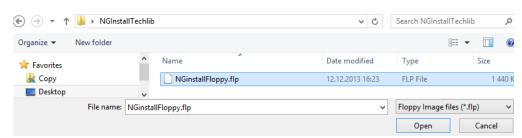
[F1-Main] [F2-Options] [F3-Kernel] [F4-Rescue]

KENTER> to install or any other key to abort 10s timeout until boot from HDD boot:
```

- 7. From the taskbar, click the **Floppy** icon ( ) and select **Connect to floppy image on local disk**.
- 8. From your local hard disk, select the floppy image (e.g., NGInstallFloppy.flp) that you created in <a href="Step 2">Step 2</a>. Create a Floppy Image with WinImage.

# Barracuda CloudGen Firewall





- 9. Press **Enter** to start the installation.
- 10. After the installation completes, press **Enter** to reboot.



# **Next Step**

After you deploy the Barracuda NextGen Firewall F-Series Vx unit, continue with <u>Getting Started</u> and optionally <u>Best Practice - Performance Tuning on VMware Hypervisors</u>.

#### Barracuda CloudGen Firewall



# **Figures**

- 1. NGISelectFull.png
- 2. NGISelectModel.png
- 3. NGIDiskSize.png
- 4. automatic nic driver selection.png
- 5. NGIEnterMIP.png
- 6. dynmod ko.png
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