

Virtual Systems (Vx)

<https://campus.barracuda.com/doc/46209466/>The Barracuda NextGen Firewall F-Series Vx can be deployed on VMware, Xen, KVM, and Hyper-V hypervisors using the virtual images provided by Barracuda Networks. Each F-Series Vx comes with one virtual network adapter. Virtual systems are classified by a "capacity" number in the model name that defines the number of protected Firewall IPs, SSL VPN users, VPN users, and HTTP Proxy users. For specialized installations, use the NextGen Install F utility and the NextGen Firewall F ISO image to deploy a custom configuration.



In this article:

Sizing Your Virtual Machine

Your Vx license limits the amount of supported CPU cores you can use for your virtual F-Series Firewall. Storage and RAM can be sized to fit your needs and are not limited by the license.

NextGen Firewall F-Series Vx	Number of Licensed Cores	Minimum Storage [GB]	Minimum Memory [GB]
VF10	1	80	2
VF25, VF50, VF100, VF250, VF500, VF1000	2	80	2
VF2000	4	80	2
VF4000	8	80	2
VF8000	16	80	2
VC400	No core limitation	125	2

VC610, VC820	No core limitation	250	2
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VMware ESXi

- **Supported Versions** - VMware ESX(i) version 3.5 or higher
- **Image Format** - *.ova
- **Max Number of virtual network adapters** - 10

To deploy the F-Series Vx on your VMware hypervisor, download the NextGen Firewall F-Series or NextGen Control Center image from the [Barracuda Networks Download Portal](#). If you want to deploy using the standard configuration, use the OVA image. If you want a custom configuration, download the generic Barracuda NextGen Firewall F-Series Vx ISO image and Barracuda F-Series Install to carry out the deployment.

To deploy an F-Series Vx on a VMware ESXi server, see [How to Deploy a NextGen F-Series Vx OVA on VMware Hypervisors](#) or [How to Deploy a NextGen F-Series Vx using Barracuda F-Series Install on a VMware Hypervisor](#).

Citrix

- **Supported Versions** - Citrix XenServer 6.2 or higher
- **Image Format** - *.hvm.xva (PVHVM) or *.pv.xva (PV) disk images.
- **Max Number of virtual network adapters** - 7

Xen images come in a PVHVM (mix of fully virtualized and paravirtualized drivers) or PV (only paravirtualized drivers) version. If your Citrix XenServer supports PVHVM, it is recommended to use the PVHVM image for near-native performance. Download images from the [Barracuda Networks Download Portal](#).

To deploy an F-Series Vx on a XenServer, see [How to Deploy a NextGen F-Series Vx on a Citrix XenServer](#).

Opensource Linux Xen

- **Supported Versions** - XenServer 4.X or higher
- **Image Format** - Linux script (.sh) script containing PVHVM or PV disk images.
- **Max Number of virtual network adapters** - 7

Xen images come in a PVHVM (mix of fully virtualized and paravirtualized drivers) or PVM (only

paravirtualized drivers) version. It is recommended to use the PVHVM image for near-native performance. Download the installation package to match your Linux Xen hypervisor from the [Barracuda Networks Download Portal](#).

To deploy an F-Series Vx on a XenServer, see [How to Deploy a NextGen F-Series Vx on an Opensource Xen Server](#).

KVM

- **Supported Versions** - KVM 5.4.2 and higher
- **Image Format** - *.kvm.zip
- **Max Number of Virtual Network Adapters** - up to 28 (depending on the configuration and number of devices in the VM configuration)

KVM uses a different approach for attaching devices to the virtual machine. It uses an emulated PCI controller with 32 slots. 5 slots are permanently occupied by necessary system components and disk controller. The remaining 27 slots can be freely assigned to other devices, including networks adapters. The KVM image for the F-Series Vx uses the Virtio paravirtualized network adapters for best performance.

To deploy an F-Series Vx on a KVM hypervisor, see [How to Deploy a NextGen F-Series Vx on KVM](#).

Hyper-V

- **Virtual Disk Format** - *.vhd
- **Max Number of Virtual Network Adapters** - up to 8 network adapters + up to 4 additional "legacy network adapters"

Barracuda Networks offers a Virtual Disk you can use to install the Hyper-V version of the Barracuda NextGen Firewall F-Series. Download the virtual disk from the [Virtual Appliance Download Page](#).

To deploy an F-Series Vx on a Hyper-V hypervisor, see [How to Deploy a NextGen F-Series Vx on Hyper-V](#).

Performance Considerations

When choosing which hypervisor to use, Barracuda Networks recommends using VMware ESXi hypervisors for network-intensive tasks, and KVM hypervisors for units with high disk load.

Figures

1. VirtualSystems.png

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