

## Virtual Systems (Vx)

<https://campus.barracuda.com/doc/41115868/>The Barracuda NG Vx can be deployed on VMware, Xen, KVM, and Hyper-V hypervisors using the virtual images provided by Barracuda Networks. Each Barracuda NG 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 Proxy users (AV and Webfilter). For specialized installations, use Barracuda NG Install and a generic Barracuda NG 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 Barracuda NG Vx. Storage and RAM can be sized to fit your needs and are not limited by the license of the Barracuda NG Vx.

Vx Virtual System	Number of Licensed Cores	Minimum Storage [GB]	Minimum Memory [GB]
NG Firewall VF25, VF50, VF100, VF250, VF500, VF1000	2	80	2
NG Firewall VF2000	4	80	2
NG Firewall VF4000	8	80	2
NG Firewall VF8000	16	80	2
NG Control Center VC400	No core limitation	125	2

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NG Control Center VC610, VC820	No core limitation	250	2
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## VMware ESXi

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

To deploy the Barracuda NG Vx on your VMware hypervisor, download the NG Firewall or NG 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 NG Vx ISO image and Barracuda NG Install to carry out the deployment.

To deploy a Barracuda NG Vx on a VMware ESXi server, see [How to Deploy a Barracuda NG Vx OVA Image on VMware Hypervisors](#) or [How to Deploy a Barracuda NG Vx using Barracuda NG Install on a VMware Hypervisor](#).

## Xen

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- **Supported Versions** - XenServer and Citrix XenServer 6.0 or above
- **Image Format** - \*.hvm.xva (fully virtualized) or \*.pv.xva (paravirtualized)
- **Max Number of virtual network adapters** - 8

Xen images come in a fully virtualized or paravirtualized version. If your XenServer supports paravirtualization, it is recommended to use the paravirtualized image for best networking performance. Download images to match your XenServer from the [Barracuda Networks Download Portal](#).

To deploy a Barracuda NG Vx on a XenServer, see [How to Deploy the Barracuda NG Vx on a Citrix XenServer](#).

## KVM

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- **Supported Versions** - KVM 5.4.2 and above
- **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 Barracuda NG Vx uses the virtio paravirtualized network adapters for best performance.

To deploy a Barracuda NG Vx on a KVM hypervisor, see [How to Deploy the Barracuda NG Vx on KVM](#).

## Hyper-V

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- **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 NG Firewall. Download the virtual disk from the [Virtual Appliance Download Page](#).

To deploy a Barracuda NG Vx on a Hyper-V hypervisor, see [How to Deploy the Barracuda NG Vx on Hyper-V](#).

## Performance Considerations

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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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