

VX Virtual Appliance Host System Requirements

April 2020

The following table summarizes the recommended resources required by each virtual appliance model when deployed on a standard server.

- These requirements do not include the resources needed by the hypervisor itself, which will require additional dedicated core, memory, and storage to operate.
- You must reserve CPU and memory for your virtual appliances to function optimally.
- For non-VMware hypervisors, an extra core should be set aside for hypervisor tasks.
- When using VX-8000 or VX-9000 on a VMware hypervisor, an extra core should be set aside for hypervisor tasks.

- It is necessary to ensure that the CPUs' hardware Virtualization Technology (VT) feature is enabled in the BIOS, and BIOS should be set to maximize performance. Please refer to the CPU vendor's documentation for guidance on enabling VT in the BIOS.
- When using vSphere 4.x with VX-6000, VX-7000, VX-8000, or VX-9000, a VMware vSphere Enterprise Plus license is needed for a virtual machine to use the required 8 or more virtual processors.
- When using Hyper-V with VX-6000, VX-7000, VX-8000, or VX-9000, Windows Server 2012 is needed for a virtual machine to use the required 8 or more virtual processors.

Model	WAN Bandwidth	Processor Cores (>2 GHz)		Memory (Gigabytes)		Storage			VMware	Hyper-V	KVM	Xen	Storage Notes - Suggested Storage (see Note a)
		Recommended	Range	Recommended	Range	Size (Gigabytes)	Performance (IOPS)	Throughput (MB/s)					
VX-500	2 Mbps	2	1, 2, 4	8	8 - 256	100 - 4000	50	12.5	✓	✓	✓	✓	2 x SSD
VX-1000	4 Mbps	2	1, 2, 4	8	8 - 256	100 - 4000	50	12.5	✓	✓	✓	✓	2 x SSD
VX-2000	10 Mbps	4	1, 2, 4	8	8 - 256	100 - 4000	100	25	✓	✓	✓	✓	2 x SSD
VX-3000	20 Mbps	4	1, 2, 4	8	8 - 256	100 - 4000	100	25	✓	✓	✓	✓	2 x SSD
VX-5000	50 Mbps	4	1, 2, 4, 8	8	8 - 256	100 - 4000	200	50	✓	✓	✓	✓	3 x SSD
VX-6000	100 Mbps	8	8, 12, 16	14	14 - 256	250 - 4000	500	125	✓	✓	✓	✓	3 x SSD
VX-7000	200 Mbps	8	8, 12, 16	14	14 - 256	250 - 4000	1000	250	✓	✓	✓	✓	4 x SSD
VX-8000 [1-Gb LAN port]	622 Mbps	24	16, 24, 32	30	30 - 256	250 - 4000	1000	250	✓	✓	✓	✓	4 x SSD
VX-8000 [10-Gb LAN port]	622 Mbps	24	16, 24, 32	30	30 - 256	250 - 4000	5000	1250	✓	✓	✓	✓	8 x SSD
VX-9000 [1-Gb LAN port]	1000 Mbps	24	16, 24, 32	30	30 - 256	250 - 4000	1000	250	✓	✓	✓	✓	4 x SSD
VX-9000 [10-Gb LAN port]	1000 Mbps	24	16, 24, 32	30	30 - 256	250 - 4000	5000	1250	✓	✓	✓	✓	8 x SSD

a. Due to the performance differences between RAID controllers and SSDs, your configuration might require additional SSDs to meet the minimum performance requirements.

NOTE: To access the *VX Virtual Appliance & Hypervisor Version Compatibility Matrix*, [click here](#).

Storage Notes

- Any combination of enterprise-class, solid-state disks is supported.
- NAS or SAN storage must meet storage performance metrics.
- For peak performance, use a separate disk for the hypervisor.
- Disk must be thick provisioned.
- The minimum storage requirement can be reduced to 30GB if nm media mode is set to ram only.
- With more than 250GB storage, at least 8GB RAM is recommended.

For information about VX virtual appliance compatibility with Network Server Blades from HP, Cisco, Avaya, and other specialized hardware form factors, please consult the *VX Specialized Form Factor Compatibility Matrix* on the following page.

VX Specialized Form Factor Compatibility Matrix

April 2020

Silver Peak has validated VX virtual appliance performance for each of the network server blades listed below. This list is constantly evolving.

For other form factors, contact sales@silver-peak.com, or see the previous page for generic system requirements.

Blade	Hypervisor	VX-500 2 Mbps WAN	VX-1000 4 Mbps WAN	VX-2000 10 Mbps WAN	VX-3000 20 Mbps WAN	VX-5000 50 Mbps WAN	VX-6000 100 Mbps WAN	VX-7000 200 Mbps WAN	Notes
Avaya 4134	vSphere 4.0 Update 1 & later vSphere 5.x, 6.0	✓	✓	✓	✓				See Avaya Technical Configuration Guide
HP AllianceOne 5400zl & 8200zl module	vSphere 4.0 Update 1 & later vSphere 5.x, 6.0	✓	✓	✓	✓				See HP vSphere Best Practices Guide
HP AllianceOne 5400zl & 8200zl module	XenServer 5.6 Feature Pack 1 & later XenServer 6	✓	✓	✓	✓				See HP XenServer Best Practices Guide
Cisco ISR G2 Router SRE 900	vSphere 5.x, 6.0	✓	✓	✓	✓	✓			See Cisco SRE 900 Best Practices Guide
Cisco UCS E140S M1	vSphere 5.x, 6.0 Citrix XenServer 6.0 Microsoft Hyper-V	✓	✓	✓	✓	✓			See Cisco UCS-E Getting Started Guide
Cisco UCS E140S M2	vSphere 5.x, 6.0 Citrix XenServer 6.0 Microsoft Hyper-V	✓	✓	✓	✓	✓	✓	✓	See Cisco UCS-E Getting Started Guide
Cisco UCS E140D/E140DP	vSphere 5.x, 6.0 Citrix XenServer 6.0 Microsoft Hyper-V	✓	✓	✓	✓	✓	✓	✓	See Cisco UCS-E Getting Started Guide
Cisco UCS E160D/E160DP	vSphere 5.x, 6.0 Citrix XenServer 6.0 Microsoft Hyper-V	✓	✓	✓	✓	✓	✓	✓	See Cisco UCS-E Getting Started Guide