

SPECIFICATIONS

LIVENX 8

LIVENX 8 DEPLOYMENT OPTIONS

LiveNX 8.x components can be deployed via the following method: Virtual, Physical and Cloud

Component	Virtual Appliance Option
Server	All-in-one Server OVA
Client	Client software for Mac OS, Win 32-bit and 64-bit
Node (optional)	Node OVA
LiveAnalytics Node (optional)	LiveAnalytics OVA

VIRTUAL DEPLOYMENT

LIVENX-SERVER OVA – DETAILS

LiveNX Server is primarily deployed on ESXi and is fully operational right out of the box. The Server operating system runs on a Linux platform.

Custom Deployment	Small Deployment	Medium Deployment	Large Deployment
<p>Used for less than 25 devices or less than 25k flows/sec.</p> <p>Proof of Concept Deployments - Installation for non-server installations (Laptops, Desktops)</p> <p>Specifications: 8vCPU Xeon or i7 16GB RAM LiveNX Server Max Heap Size 8GB 500GB Data Disks *</p>	<p>Used for less than 100 devices or lesser than 50k flows/sec</p> <p>Installation for server environments with Hyper-V Manager/VMware ESXi/ Hypervisor</p> <p>Specifications 16vCPU Xeon or i7 32GB RAM LiveNX Server Max Heap Size 16GB 2TB Data Disks *</p>	<p>Used for 100 to 500 devices or lesser than 100k flows/sec</p> <p>Installation for server environments with Hyper-V Manager/VMware ESXi/ Hypervisor</p> <p>Specifications 16vCPU Xeon or i7 64GB RAM LiveNX Server Max Heap Size 31GB 4TB Data Disks *</p>	<p>Used for 500 to 1000 devices or lesser than 150k flows/sec</p> <p>Installation for server environments with Hyper-V Manager/VMware ESXi/ Hypervisor</p> <p>Specifications 32vCPU Xeon or i7 64GB RAM LiveNX Server Max Heap Size 31GB 8TB Data Disks *</p>

* ie Data Disk Size is minimum recommendation.

Each LiveNX **node** supports ~76TB disk space. Recommended way is to add each disk of 10TB.
Server IOPS Recommendation LiveNX 7.1 - 1000 IOPS Read and 4500 IOPS Write

Virtual Platform

VMware ESXi v5.0+ - VMware Hardware Version 8 (vmx-8)

Network Hardware - At least 2 Physical NICS on ESXi

- Support up to 10Gbps

- Virtual NICs on OVA are utilizing E1000

NOTE: Using the hypervisor client requires a windows machine. If the ESXi version is 6.0 or higher, user can utilize a browser to login, access, and connect.

LIVENX CLIENT SIZING – DETAILS

The client application can be launched via Web Start directly from the LiveNX Web Server or can be installed as a 64-bit client application for Windows or Mac. For large scale deployments, the client application installer is recommended as it can scale and perform to higher capacity than the Web Start versions.

<p>Operating System Specification Windows 10 or Mac OSX 64-bit OS 4 Cores 8 GB RAM Web browser: IE11 and higher, Firefox, Chrome and Safari</p>

OTHER COMPONENTS

- Java JDK `1.8.0_181`
- NodeJS `v8.9.4`
- InfluxDB `1.6.1`
- MongoDB `3.6.3`

PHYSICAL DEPLOYMENT

PLATFORM – DETAILS

Base Hardware Model - Dell R440 1U Chassis
 Processors - 2 x Intel Xeon Gold 5118 (24 CPU Total)
 RAM - 96 GB DDR3; Heap-Size – 64GB
 Storage - 4 x 8 TB 7200-RPM disks in RAID 10
 iDRAC support

CISCO DEVICE SUPPORT – SNMP & FLOW

Cisco ISR Series Routers: 800, 900, 1700, 1800, 1900, 2600, 2600XM, 2800, 2900, 3600, 3700, 3800, 3900, 4200, 4300, 4400, 4500, 7200, 7600*, ASR 1001x, 1002x Series Routers, CSR 1000V*	Cisco Catalyst Series Switches 2900, 3650, 3850 & 4500-X 6500, 6800, 9000 are supported. * (Limited LiveNX QoS Monitor support on Layer 3-routable interfaces and VLANs depending upon Cisco hardware capabilities.)	Cisco Nexus Switches (Nexus 3000, 7000, 6000 & 9000 Series)
ASR 9000 Series Routers	Cisco NetFlow Generation Appliance	Cisco AnyConnect Network Visibility Module on Windows and Mac OS X Platforms
Cisco SD-WAN vEdge, Cisco IOS XE SD-WAN Edge Devices	Cisco ASA 5500 Series Firewalls	Cisco Meraki MX Security Appliance
<p>*Recommend IOS versions 12.3 or higher or 15.0 or higher for use with the software (IOS XE 2.6.0 or higher for ASR 1000 series). Earlier IOS versions may also work but are not officially supported. General-release IOS versions are recommended, although early-and limited-release versions will also work with LiveNX.</p>		

MULTI-VENDOR DEVICE SUPPORT – FLOW

Adtran NetVanta Series Routers	Extreme Network Switches	Ntop nProbe
Alcatel-Lucent Routers	Gigamon GigaSMART	Palo Alto Networks Firewalls
Brocade Series Routers	Hewlett-Packard Enterprise Procurve Series Switches	Riverbed SteelHead WAN Optimization Controllers
Barracuda Firewall	Ixia's Network Visibility Solution	Silver Peak WAN Optimization Controllers
Checkpoint Firewall	Juniper MX Series Routers	Sophos Firewall
F5 Load-Balancer	Citrix NetScaler Load Balancer	Ziften ZFlow