

LiveAction



LiveNX

Quick Start Guide

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LiveNX Quick Start Guide

Introduction

This LiveNX Quick Start Guide will provide you with the necessary instructions to set up the LiveNX software, as well as the network configuration needed to ensure LiveNX can collect relevant data from the network and deliver end-to-end network visibility.

This guide is divided into two sections:

- **Section 1: Deployment planning**

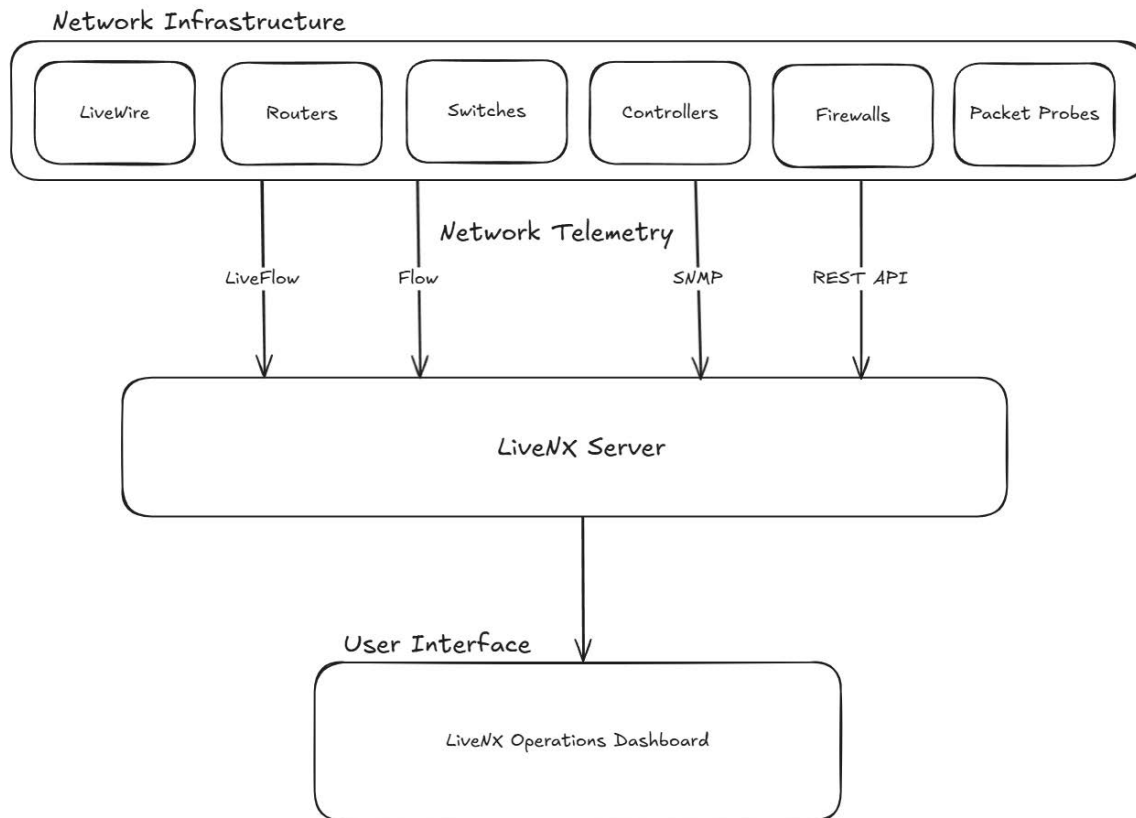
In Section 1, we will select the appropriate server resources and ensure relevant network configuration is implemented. Additionally, we will also download the LiveNX Server virtual appliance and LiveNX Engineering Console Client.

- **Section 2: LiveNX deployment**

In Section 2, we will take the administrator through deployment, configuration, and quick references. Additionally, we will also visualize the network data once it's populated in LiveNX.

A Simple LiveNX Deployment

The simplest deployment of LiveNX consists of the LiveNX Server ingesting network telemetry such as SNMP and Flow (IPFIX, NetFlow, sFlow) from network infrastructure elements such as Routers, Switches and Firewall to provide network and application visibility. LiveNX can also ingest LiveFlow telemetry from Live-Wire appliances that analyze packets on the wire and generate rich metadata using LiveFlow technology.



Users can leverage the web-based Operations Dashboard as a primary interface for day-to-day operations visibility or the Engineering Console thick-client for configuration and deeper troubleshooting visibility.

For small deployments, proof-of-concepts, or evaluation trials, use a single server deployment as shown above. For larger multi-site deployments, a more distributed LiveNX deployment can be architected with multiple collectors called LiveNX Nodes that aggregate to the Server.

Deployment

LiveNX components can be deployed via the following methods: Virtual, Physical, and Cloud..

Component	Virtual Appliance (OVA)	Virtual Appliance (Hyper-V)	Amazon Web Services (AMI)	Microsoft Azure	Google Cloud (GCP)	Oracle Cloud (OCI)	LiveNX Server Appliance
LiveNX Server	✓	✓	✓	✓	✓	✓	✓
LiveNX Node	✓	✓	✓	✓	✓	✓	✓

System requirements

Below are the system requirements for LiveNX.

Items	Minimum Requirements for New Medium OVA	Minimum Requirements for New Large OVA
FPS (K)	100K	150K
CPU	32 vCPU Xeon	64 vCPU Xeon
RAM	128 GB	256 GB
Data Disk	8 TB	16 TB

New Flow Ingestion Scale Matrix.

Appliance	Ingestion FPS w/o CH Enabled for Flow	Ingestion FPS with ClickHouse Enabled for Flow
6200 Gen-2	500K	350K
6210 Gen-3	800K	600K
Legacy OVA Large	150K	100K
New OVA Large	250K	150K

Documentation

For full documentation, please visit: <https://docs.liveaction.com/LiveNX>.

Section 1: Deployment planning

Follow these steps to prepare for the deployment of LiveNX and management of network devices:

1. Determine server sizing requirements. See 'System requirements' on page 3.
2. Download LiveNX Server. See 'Download LiveNX files from LiveAction' on page 4.
3. Review SNMP community and credentials for network devices. See 'Review SNMP community and credentials' on page 4.
4. Review SSH and Telnet requirements (optional if monitoring only). See 'Review SSH and Telnet requirements' on page 4.
5. Open ports for remote connections through a firewall. See 'Open ports for remote connections through a firewall' on page 4.
6. Obtain an IP address for LiveNX server. See 'Obtain an IP Address for LiveNX' on page 5.

Download LiveNX files from LiveAction

To download LiveNX releases, go to <https://cloudkeys.liveaction.com/downloads>.

Review SNMP community and credentials

LiveNX utilizes SNMP protocol to discover network devices. Once the devices are discovered, LiveNX uses SNMP to monitor and poll statistical information from network devices. LiveNX requires SNMP read-only strings. Utilizing SNMP, LiveNX can capture the Hostname, CPU, Memory, Number of Interfaces, etc. of a device. LiveNX recommends that a network device should be configured with a SNMP community string or SNMPv3 credentials for collection of SNMP data sets. Configure SNMP settings prior to managing in LiveNX to ensure that the devices are managed, and administrators can get immediate value from LiveNX.

Note Please refer to Vendor Documentation for configuring SNMP settings on your network device.

Review SSH and Telnet requirements

LiveNX also utilizes SSH or Telnet protocols for configuring QoS management policies and NetFlow on network devices. For Cisco routers, it is recommended to use LiveNX's NetFlow configuration tools. If LiveNX is being used for monitoring only, SSH/Telnet credentials are not required.

Open ports for remote connections through a firewall

If LiveNX is hosted behind a firewall, the below INBOUND ports must be opened to ensure reachability and functionality of LiveNX. For a detailed list of ports, please refer to <https://docs.liveaction.com/LiveNX>.

- TCP 443 - HTTPS/ LiveNX Web UI
- TCP 3000 - Grafana (optional)
- TCP 7000 - Engineering Console communications
- TCP 8093 - LiveNX API
- TCP 8443 - LiveAdmin Web UI
- TCP 9440 - Clickhouse native secure port, used for queries and `clickhouse-client` command line client
- TCP 9010 - Interserver HTTPS port, used for replication
- UDP 2055 - IPFIX / NetFlow
- UDP 6343 - sFlow
- Port 22 - SSH for CLI

Obtain an IP Address for LiveNX

Configuring LiveNX with an IP address since that would allow communication to all network devices. LiveNX connects directly to the network devices to gather data or for configuration changes. LiveNX Users connect to this IP address via the two clients.

Section 2: LiveNX deployment

Once you have completed the steps outlined in 'Section 1: Deployment planning' on page 4, follow these steps to deploy LiveNX:

1. Deploy LiveNX Server virtual appliance. See 'Deploy LiveNX Server virtual appliance' on page 6.
2. Access LiveNX Operations Dashboard interface. See 'Access LiveNX Operations Dashboard' on page 6.
3. Activate LiveNX license. See 'Activate LiveNX license' on page 7.
4. Onboard network elements. See 'Onboarding devices to LiveNX' on page 11.

Deploy LiveNX Server virtual appliance

Deploy LiveNX Server virtual appliance OVA on the hypervisor of choice and power-on the virtual appliance. Using the console as shown below, you can provision LiveNX Server with the required network settings to access via the Web interface (Operations Dashboard). You can log into the console with the following default credentials: Username: *admin*/Password: *changeme*. The network settings screen is like the screen below. After deploying the OVA, you will need to set the SSH password.

```

LiveAction
LiveNX Server Appliance

Networking:
-----
IP Address: 10.4.203.3           Netmask: 255.255.255.0
Gateway: 10.4.203.1           DNS: 10.4.58.20 10.1.2.20
Hostname: livenx              Interface: eth0
NTP Server: pool.ntp.org

Version: 21.1.1-20210309-6f6da7e   Disk Space: 13G of 500G used (3%)
                                   Memory: 256M of 16012M used (2%)
                                   CPU Load: 1.74, 0.39, 0.13 (8 cores)

Settings menu:
-----
[1] Static IP Address
*[2] DHCP
[3] Login
[4] Reset SSH password
[5] Reboot
[6] Power Off

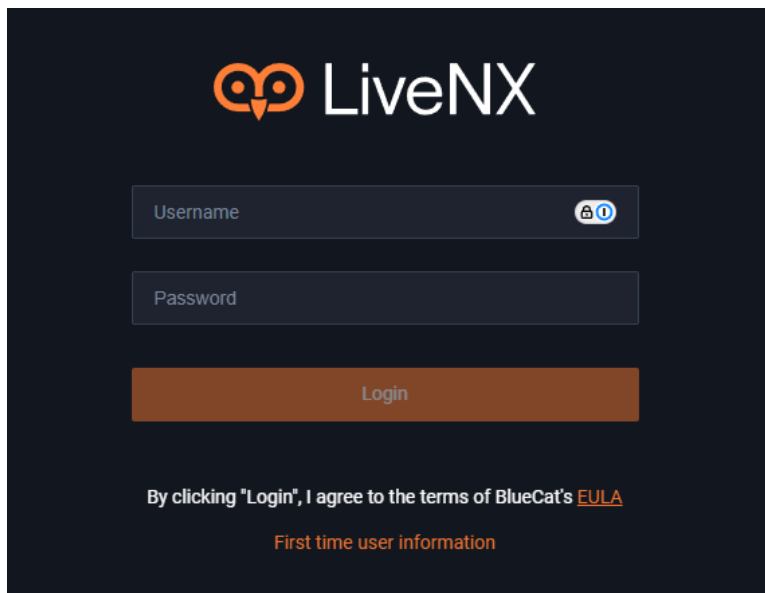
```

The console is required only for the initial networking related configuration. Once the initial network settings are configured, use the LiveNXWeb interface to provision the rest of the properties.

Access LiveNX Operations Dashboard

Use a web browser to browse to the IP address of the LiveNX Server.

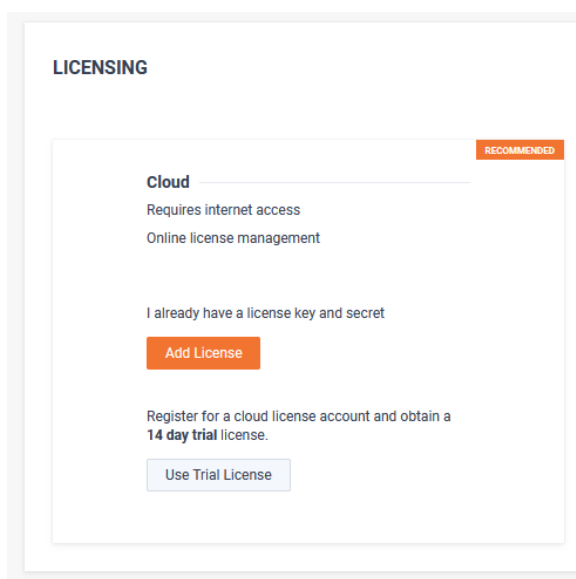
1. In the *IP Address* or *Hostname* field, enter the IP address or *Hostname* of the LiveNX Server.

The image shows the LiveNX login interface. At the top is the LiveNX logo, which consists of an orange icon with two eyes and the text "LiveNX" in white. Below the logo are two input fields: "Username" and "Password". The "Username" field has a small lock icon and a blue circle with a white 'i' to its right. Below these fields is a large orange "Login" button. At the bottom, there is a line of text: "By clicking 'Login', I agree to the terms of BlueCat's [EULA](#)". Below that is a link that says "First time user information" in orange.

2. Click *First time user information* and login with the following credentials: Username: *admin*/Password: *admin*.
3. You will be prompted to enter a new password. Enter your new password and click *Update Password*.

Activate LiveNX license

This section guides you on how to sign up for and activate a Cloud License in LiveNX.

The image shows the "LICENSING" section of the LiveNX interface. The title "LICENSING" is in bold. Below it is a card with a "RECOMMENDED" tag in the top right corner. The card has a "Cloud" section with a sub-header "Cloud" and two bullet points: "Requires internet access" and "Online license management". Below this is a section titled "I already have a license key and secret" with an orange "Add License" button. At the bottom of the card, there is text: "Register for a cloud license account and obtain a 14 day trial license." and a button labeled "Use Trial License".

1. If you already have a license, click on **Add License**. You can grab the Key and Secret from your [LiveAction Customer portal](#).

ADDING CLOUD LICENSE ×

Log into your **LiveAction Licensing Portal** account to obtain the key and secret for your license.

Key

Secret

- If you do not have a license, you can register for a Trial license by clicking on **Use Trial License**. Fill up the **New User Registration** form.

NEW USER REGISTRATION ×

Warning

⚠ If you are already using a production traditional license on this computer, do not register for the trial as the trial license will get automatically installed and only supports 10 devices. Any devices in excess of that will get removed. Contact sales to create your licensing portal account and license.

Please fill in the following information to create a **LiveAction Licensing Portal** account and obtain a trial license. The Licensing Portal login information will be sent to your e-mail address.

First Name

Last Name

Company

Address

Country

State

Zip

City

Phone

Email

- Upon clicking **Submit**, a *Registration Successful* popup will appear with instructions on how to access the [LiveAction Customer Portal](#).

REGISTRATION SUCCESSFUL ×

Please check your e-mail to obtain the login information for your **LiveAction Licensing Portal** account that you can use to manage your cloud licenses. Your trial license has been automatically installed and activated for you.

- Your LiveNX Server will obtain a "Trial License" with all the details as shown below.

LICENSING

Description

Requires internet access
Online license management
Requires WebUI available via All-in-One OVA to manage licenses

LiveNX

Compatible version : 6.0 or newer
License number : 
License type : Temporary
Maximum number of devices : 10 devices
Maximum historical data : No limit
Technology modules : LiveNX QoS, LiveNX Flow, LiveNX Routing, LiveNX IP SLA, LiveNX LAN
License issue date : Mar 22, 2021 22:15:48 PDT (GMT-07:00)
License expires : Apr 05, 2021 22:15:48 PDT (GMT-07:00)
Status : License OK

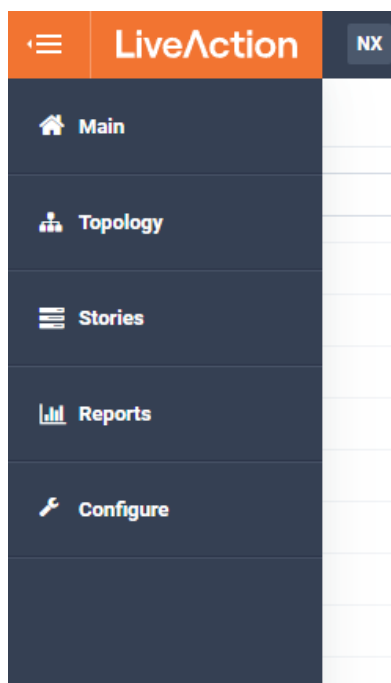
Cloud Monitor

Maximum number of Cloud Entity Count (CEC) : 100

LiveUX

Maximum number of agents supported : 6
Organization ID : 

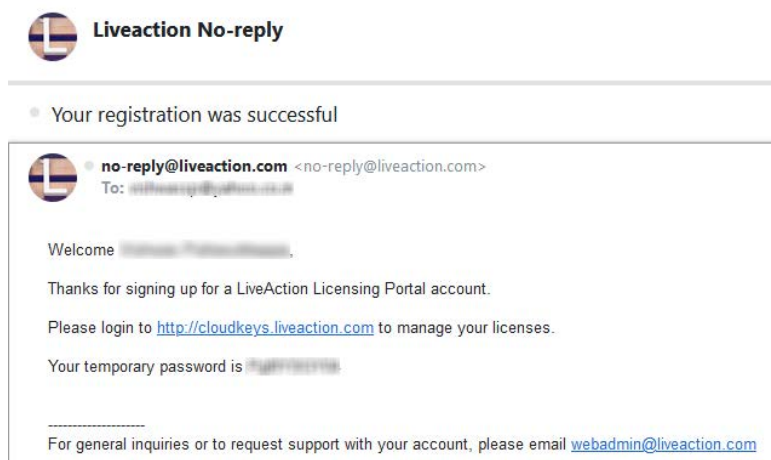
5. Now, you can explore various LiveNX features by clicking on the  icon at the top-left of the screen.



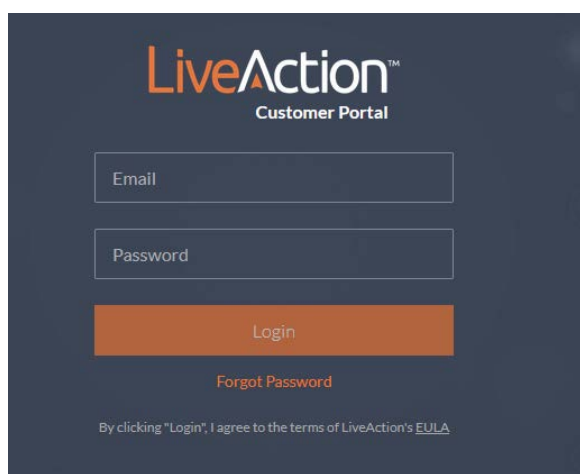
If you have any questions about getting a trial license, please contact LiveAction support: support@liveaction.com.

CloudKeys – Cloud license portal

The cloud license portal allows you to manage your LiveNX licenses. When you initially signed up for a trial cloud license, you should have received an email with your credentials to login into the *Cloud license portal*.



1. Open a browser and go to <https://cloudkeys.liveaction.com>. Login with your credentials.



2. You will be prompted to change your password. Enter a new password and save changes.
3. Click **LiveNX** at the top to view your current License.
4. If you would like to view your license details, click on the License number to view your Key and Secret.

LICENSE DETAILS | [\[redacted\]](#)

Key : [\[redacted\]](#)

Secret : [\[redacted\]](#)

Activation Date : Mar 22, 2021 22:15:56 PDT (GMT-07:00)

Start Date : Mar 22, 2021 22:15:48 PDT (GMT-07:00)

End Date : Apr 05, 2021 22:15:48 PDT (GMT-07:00)

Maintenance Expiration Date : No maintenance

License Type : Trial

Install LiveNX Engineering Console

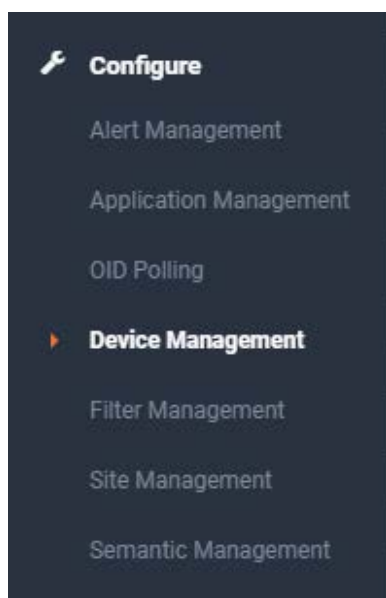
- LiveNX Engineering Console or the thick client can be downloaded from <https://www.liveaction.com/download>. The client can be run from a Windows or Mac laptop. The thick client can be configured to reach multiple LiveNX servers. It is important that the version of the Client matches the version of the Server.

For detailed information on the Client, please reference the *LiveNX Administration Guide* or the *LiveNX User Guide* at <https://docs.liveaction.com/LiveNX>.

Onboarding devices to LiveNX

Onboarding devices via the Operations Dashboard

1. Once the LiveNX server is deployed and you can access LiveNX via the Web UI, device discovery can be started. Select **Device Management** from the LiveAction drop-down menu.



2. Click  at the top-right corner of the screen to configure what to discover.

Go through the Device Discovery process to add devices to LiveNX.

DISCOVER DEVICES

WHAT TO SCAN

- Specify IP ranges
- Specify seed device to scan
- Specify SD-WAN vManage config

SCAN SETTINGS

IP Ranges

IP Range *

IP Range

Add More

Site

Site

SNMP Settings

- ☒ Default SNMP connection settings
SNMP Credential Storage Configuration Page
- ☐ Enter SNMP connection settings for this device

Destination Node

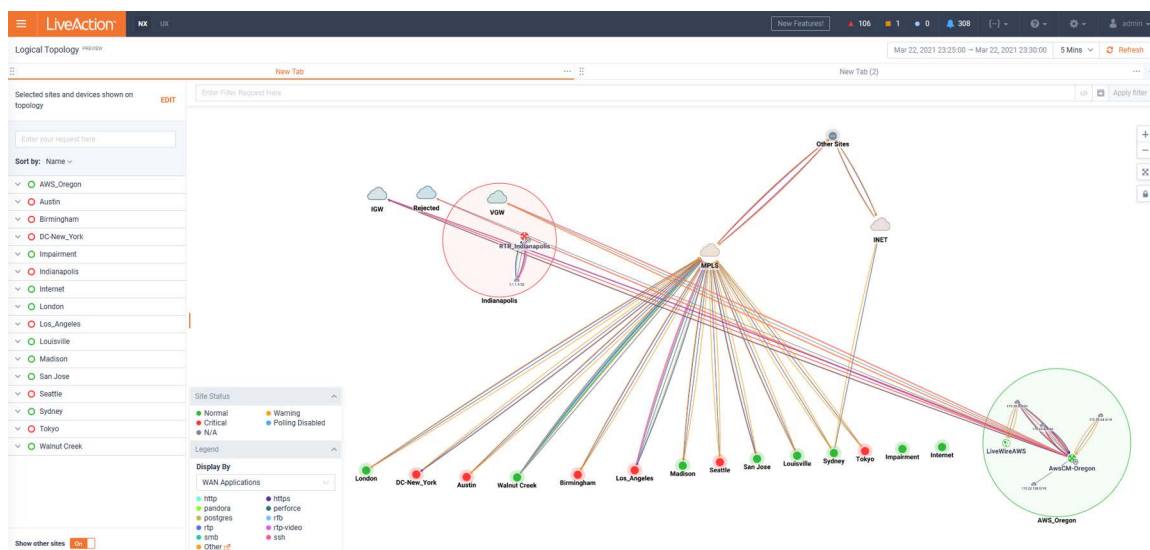
Local/Server

Discover

Cancel

You can now onboard devices that need to be managed by providing the IP address and SNMP community string settings.

Congratulations! You are done with the device and LiveNX setup. Once Flow is configured on the network devices, flows from devices can be visualized on the LiveNX as shown below.



For more detailed documentation such as Administrator and User Guides, please refer to <https://docs.live-action.com/LiveNX>.