

BELDEN



Network Insights

Belden Horizon

June 5, 2024

USER MANUAL

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Belden Horizon Network Insights User Manual
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June 5, 2024

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1 Start Here

1.1 About BHNI

Wherever individual network components combine to form a comprehensive system, Belden Horizon Network Insights (BHNI) becomes the ideal solution for configuring and monitoring administrable Belden devices such as switches, routers, OpEdge-8D firewalls, as well as wireless BAT units and products from various manufacturers. BHNI, designed for efficient industrial supervision, can seamlessly integrate into the network. Using machine-learning algorithms, BHNI analyses network behavior over time and detects anomalies, offering insights into network traffic patterns to help identify anomalies.

2 Belden Horizon Registration

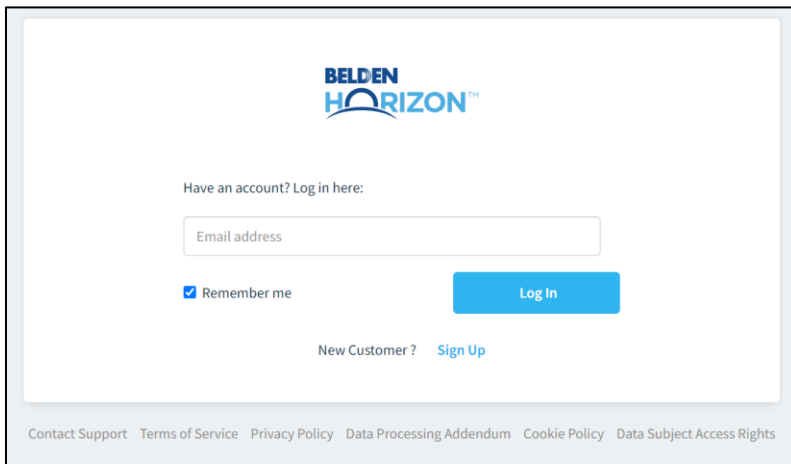
The device must be registered in Belden Horizon before installing the Container on the device. To register, follow the steps in Chapter 3 of the [OpEdge Configuration](#) document.

Once the device is successfully registered, continue with the steps in the following chapter.

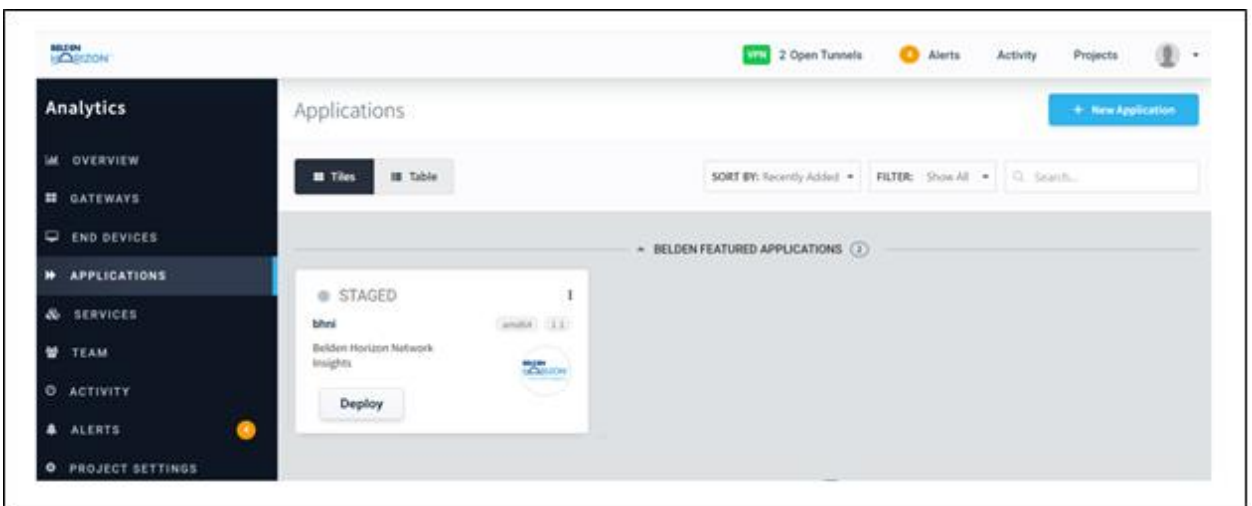
3 Container Installation and Deployment

Perform the following steps for the installation and deployment of containers.

- 1 Open the website <https://belden.io>.
- 2 Log in to your account. If you do not have an account, click the **SIGNUP** button to create an account. The **Overview** page displays after successful login.



- 3 Click on **APPLICATIONS** in the left panel. Scroll-down to the **bhni** container.

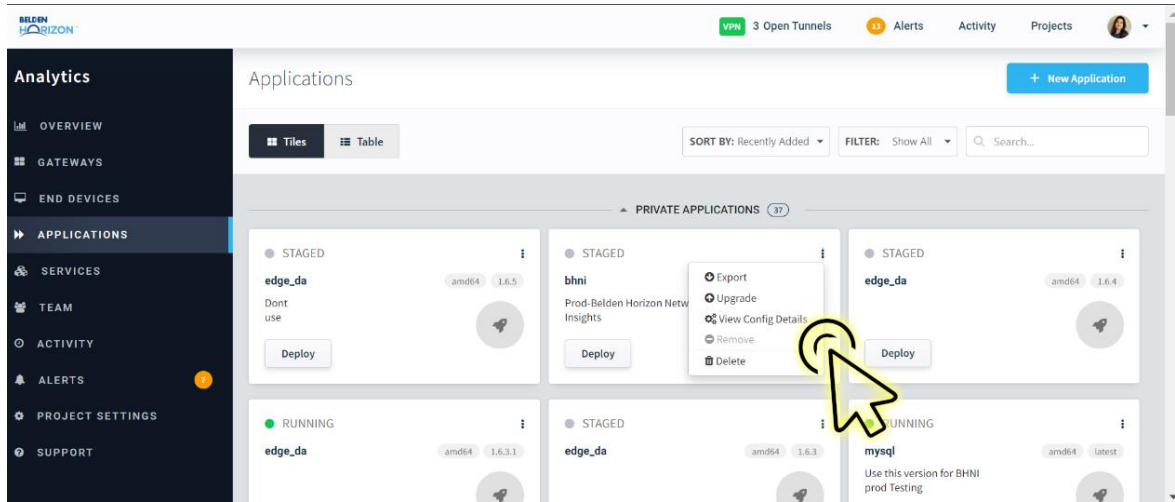


The following section covers the deployment of a container.

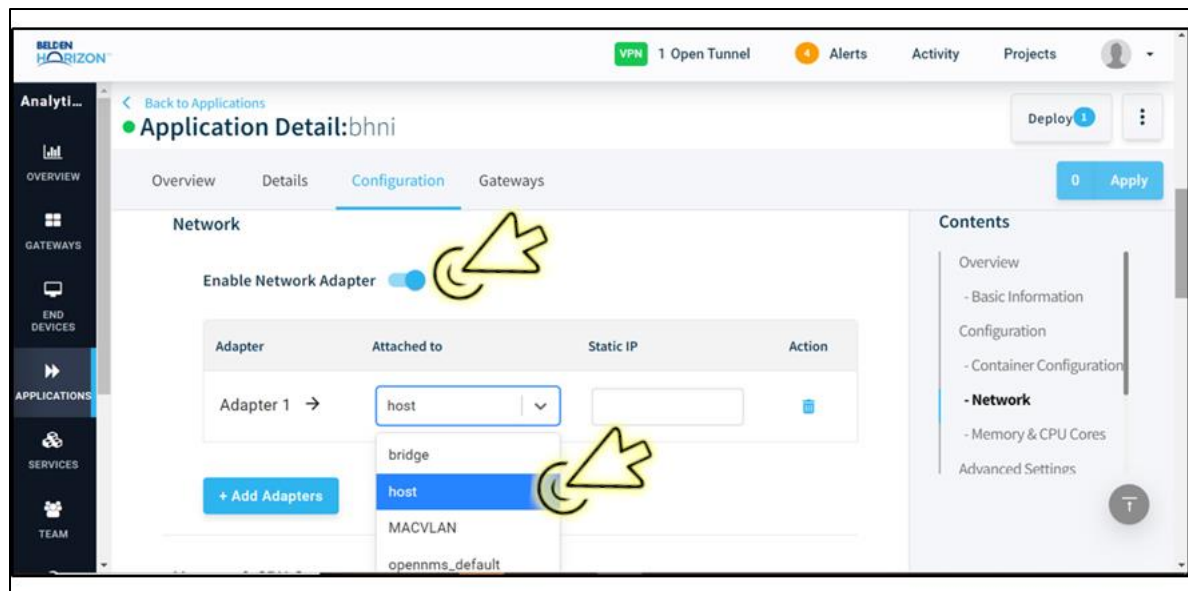
3.1 Deploying bhni Container

The **bhni** container is required for viewing live data. Perform the following steps to deploy the **bhni** container:

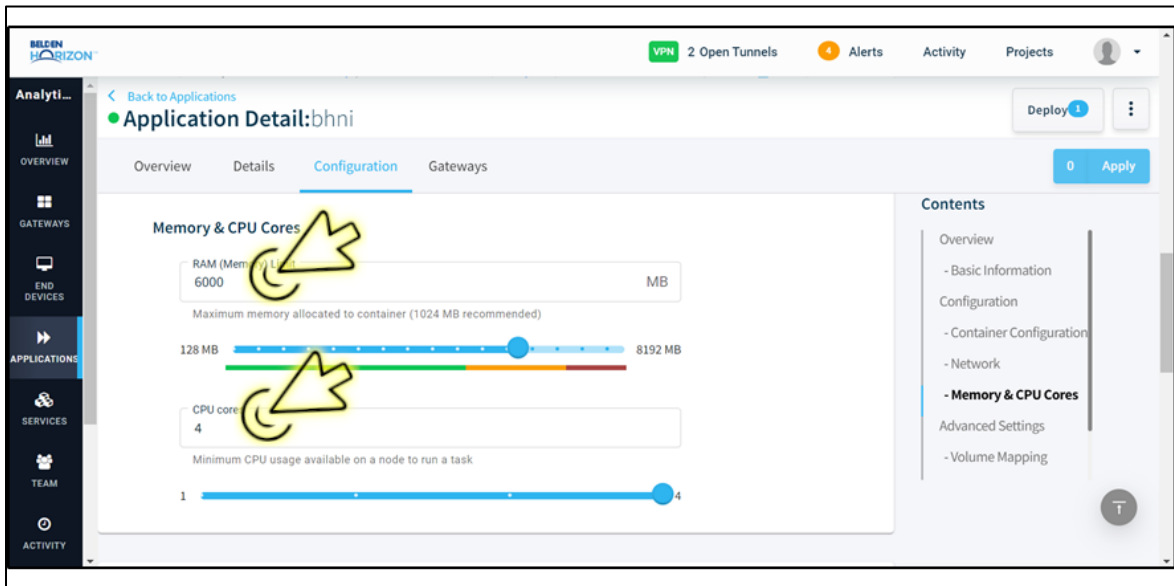
- 1 In the **bhni** container options, select **VIEW CONFIG DETAILS** to open the *Application Detail* page.



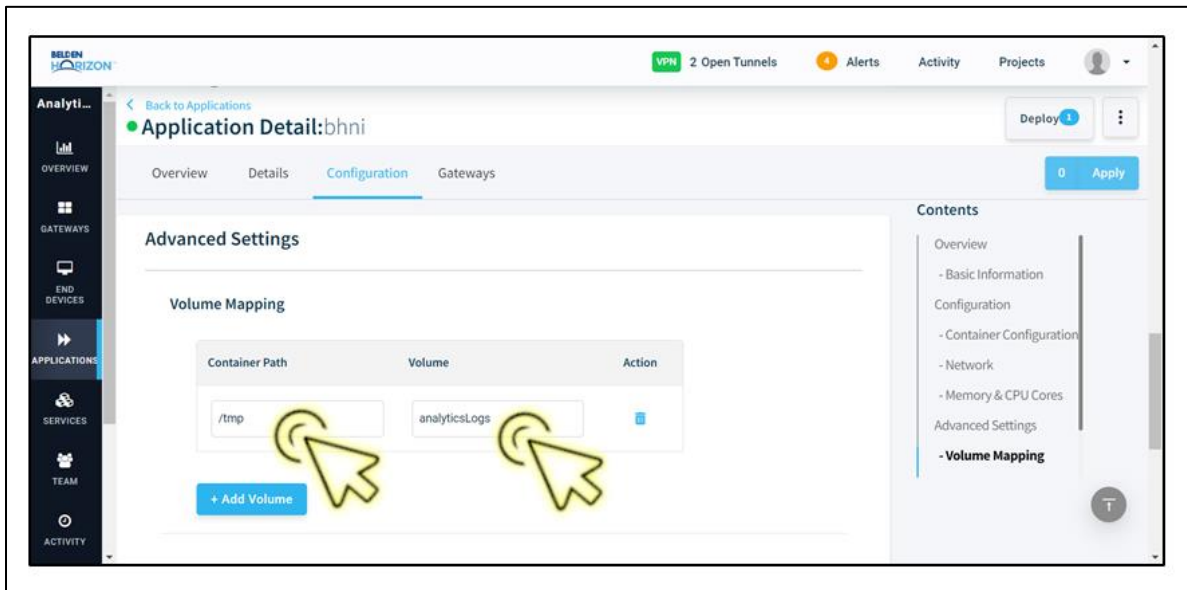
- 2 In the *Configuration* tab of the *Application Detail* page, scroll down to the **Network** section.
 - a) Enable the **ENABLE NETWORK ADAPTER** toggle button.
 - b) Select **HOST** from the **ATTACHED TO** drop-down list for *Adapter 1*.



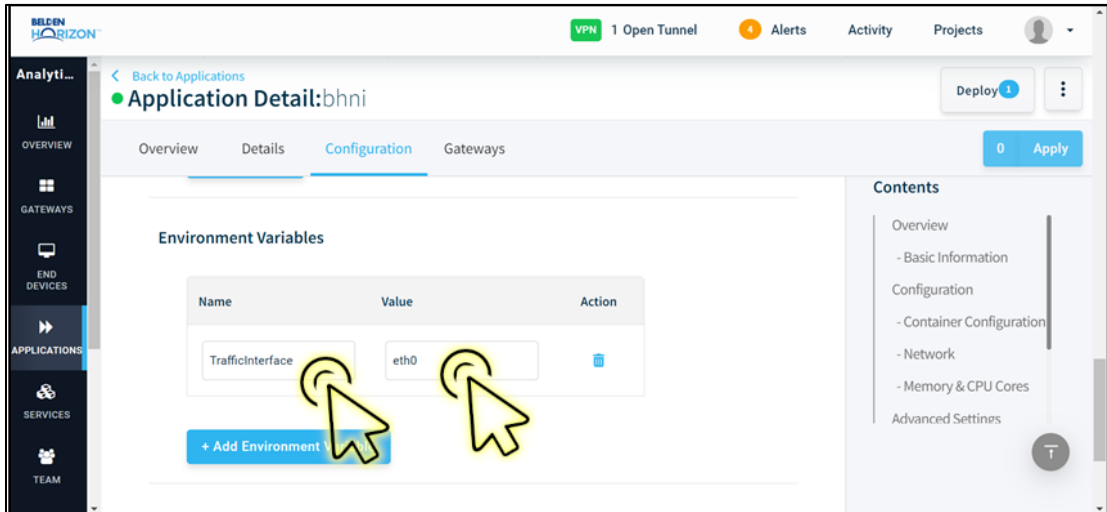
- 3 Scroll down to **Memory & CPU Cores** frame. Specify the required values for the *RAM (Memory) Limit* and *CPU cores*.



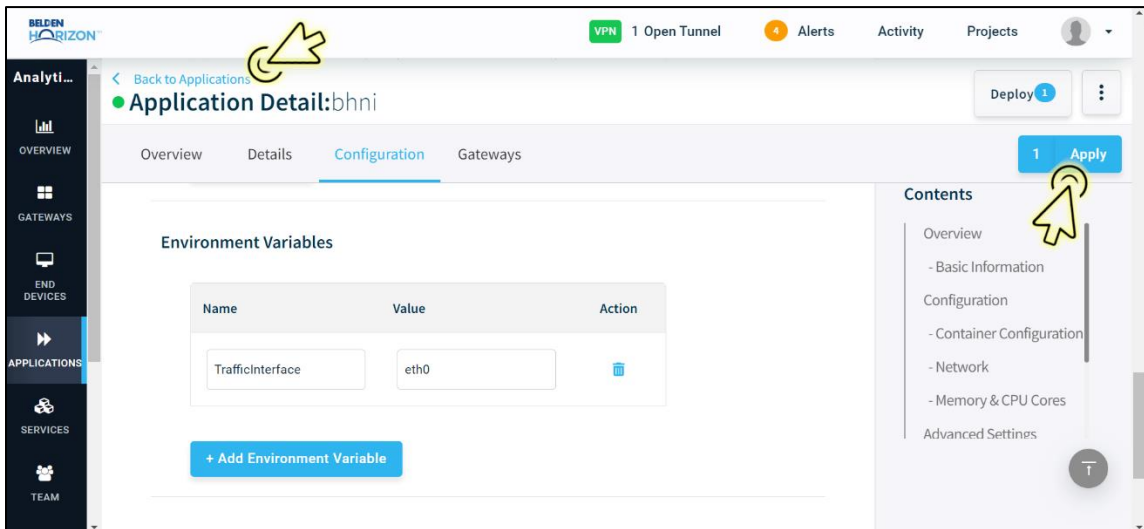
- 4 Scroll down to **Advanced Settings** frame. Specify the required values for the *Container Path* and *Volume* fields.
 - **Container path:** /tmp
 - **Volume:** analyticsLogs



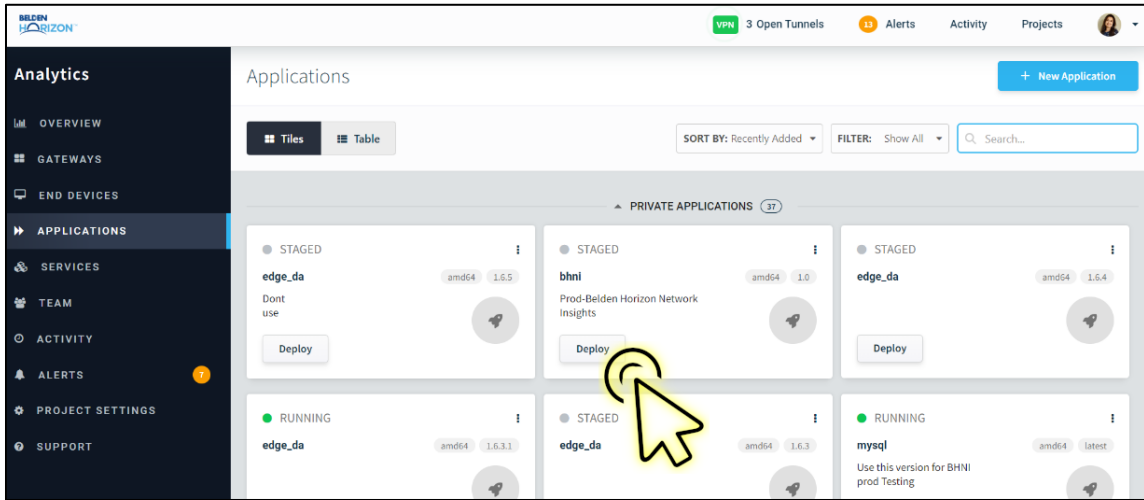
- 5 Scroll down to the *Environment Variables* section. Specify the required values for the *Name* and *Value* fields.
 - **Name:** TrafficInterface
 - **Volume:** eth0



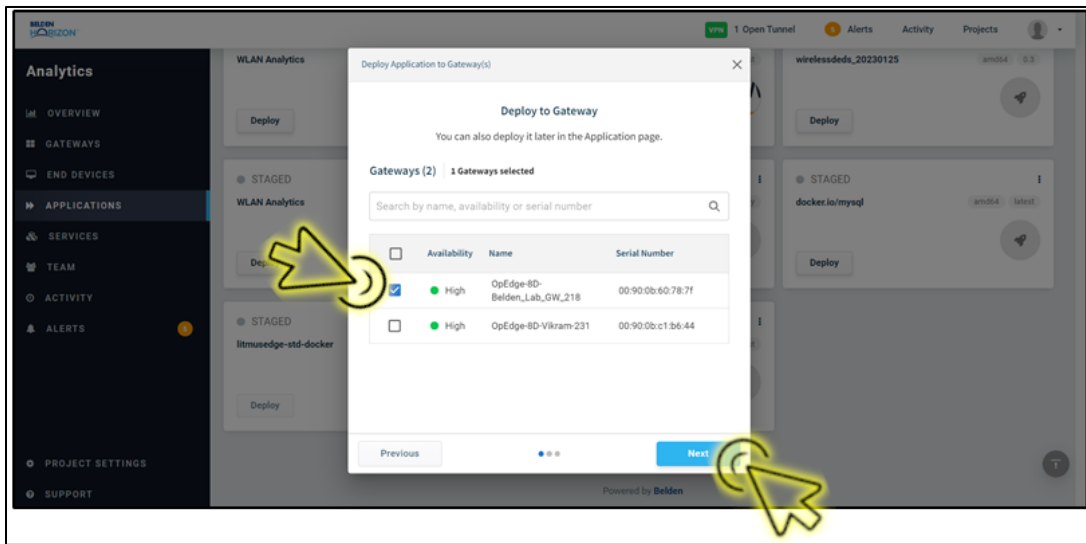
- 6 Click on the **APPLY** button to save the changes, then click on **BACK TO APPLICATIONS**.



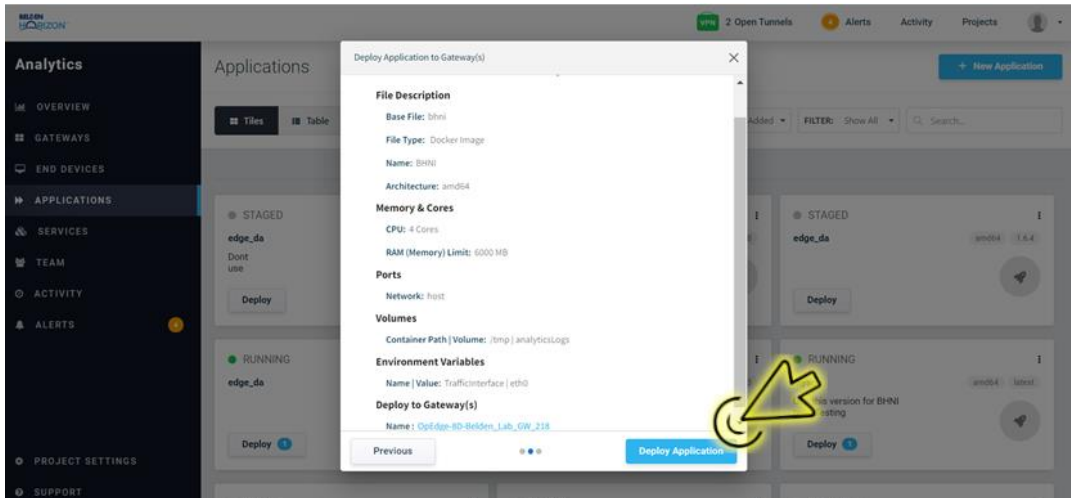
7 Click on the **DEPLOY** button to open the *Deploy Application to Gateway(s)* window.



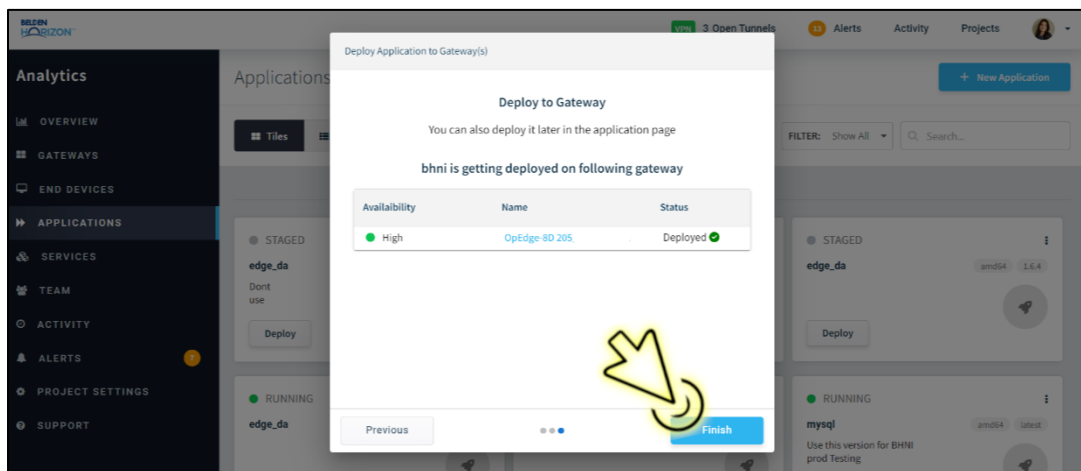
8 Select the gateway, then click on the **NEXT** button.



- 9 Verify the information is correct, then click on the **DEPLOY APPLICATION** button.



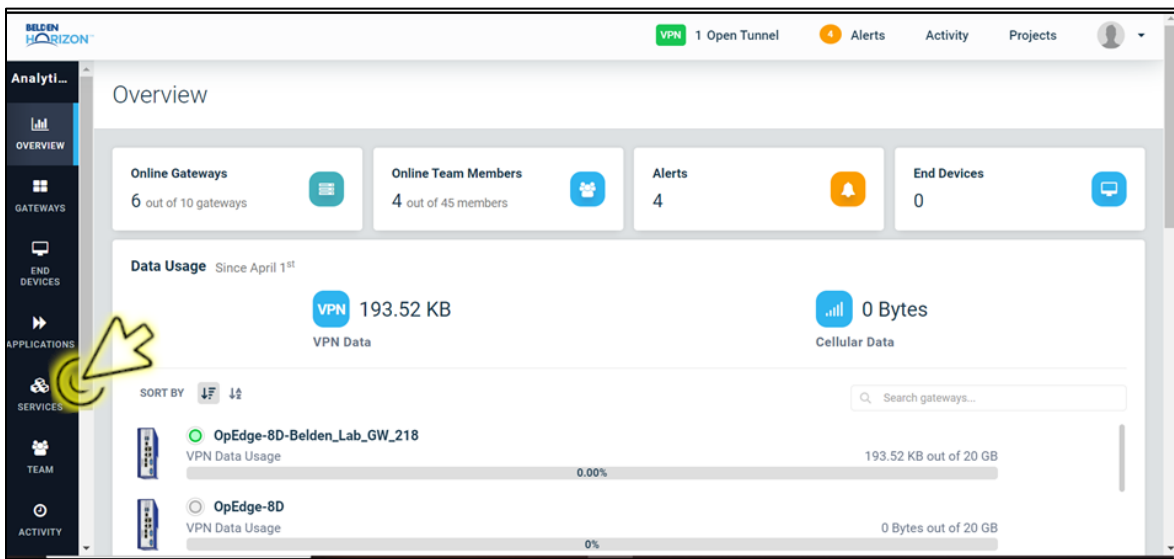
- 10 Wait for a few seconds until the Status changes to **DEPLOYED**, then click on the **FINISH** button.



4 Network Insights

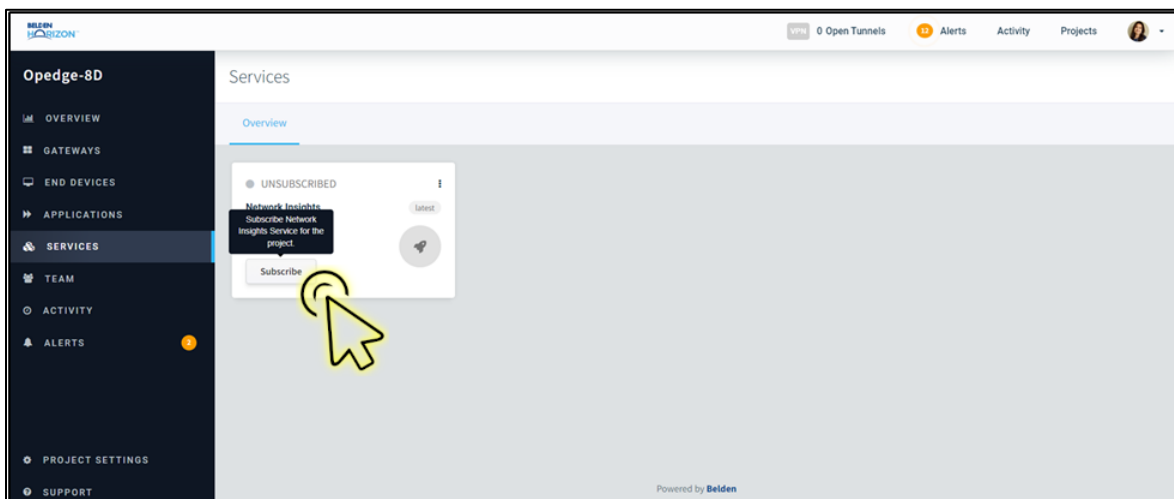
After the container installation is complete, the user can access the Network Insights for the devices registered on Belden Horizon. BHNI provides actionable network insights based on the network data gathered through passive sniffing of the captured packets. To access, perform following steps:

- 1 Open the website <https://belden.io> and log in.
- 2 Click on **SERVICES** in the left panel.

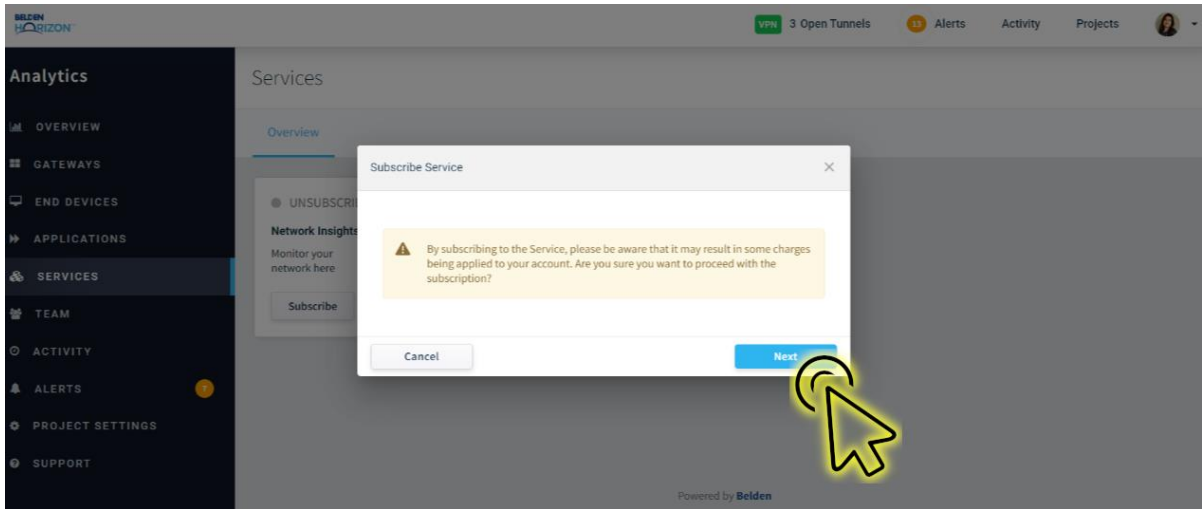


- 3 The **Network Insights** card is located in the *Overview* tab. Click the **SUBSCRIBE** button to open the Belden Horizon support pop-up.

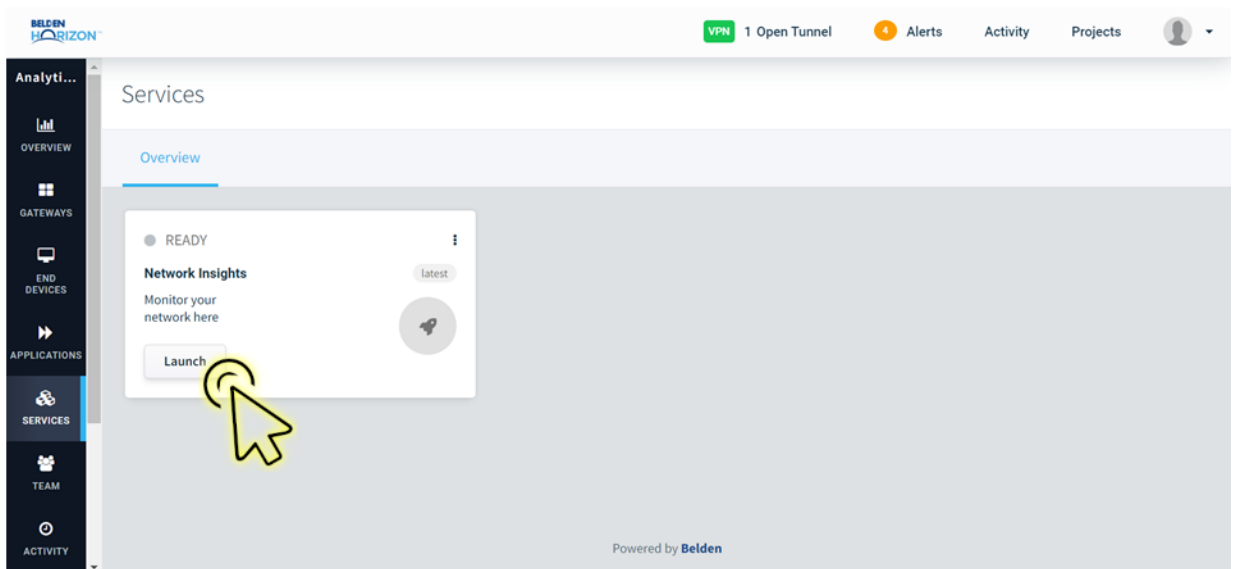
Note: The **Admin** user can only perform the subscribing of the Network Insight service.



- 4 After Belden Support provides a subscription for the account, click the **SUBSCRIBE** button again to open the *Subscribe Service* window.
- 5 Click the **NEXT** button to open the End User License Agreement (EULA) page.

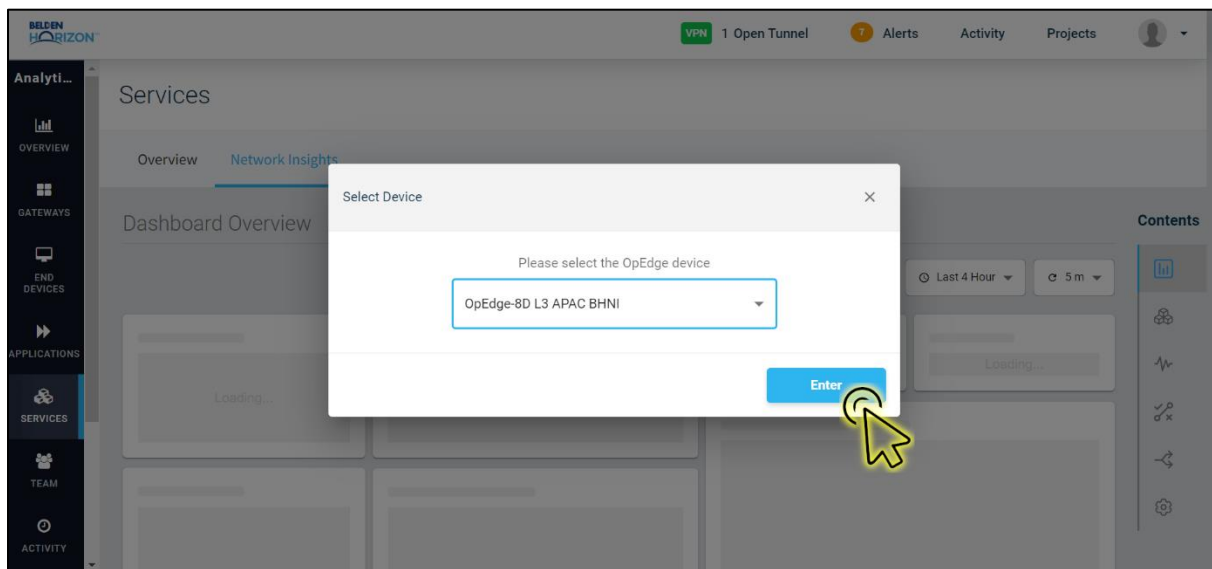


- 6 Click the **ACCEPT & SUBSCRIBE** button.
- 7 After subscribing, the **SUBSCRIBE** button changes to **LAUNCH**. Now any authorized user can view *Network Insights*.
- 8 Click the **LAUNCH** button to open a window to select the device.

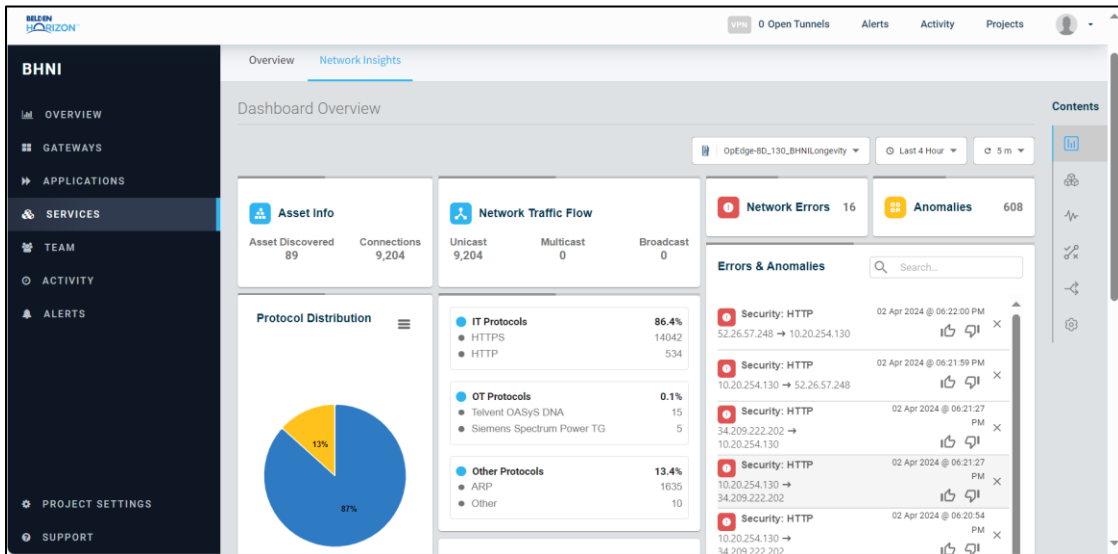


- 9 All the registered devices on Belden Horizon will be available in the drop-down list. Select the device for which you want to view the insights and then click on **ENTER**.

As a prerequisite, you must deploy the containers for the device selected from the drop-down list.



10 The *Dashboard Overview* is displayed in the *Network Insights* tab. There are different types of menus available in the **Contents** panel on the right side of the page.

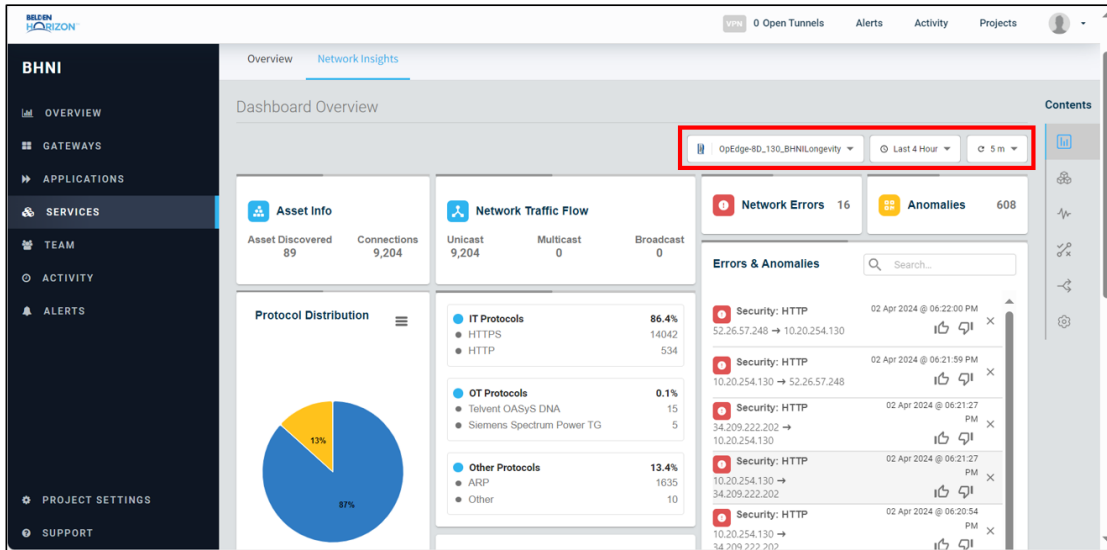


The following Network Insights menus are available in the **Contents** panel:

- [Dashboard Overview](#)
- [Assets Menu](#)
- [Performance Menu](#)
- [Alerts & Anomalies Menu](#)
- [Traffic Flow Menu](#)
- [Settings Menu](#)

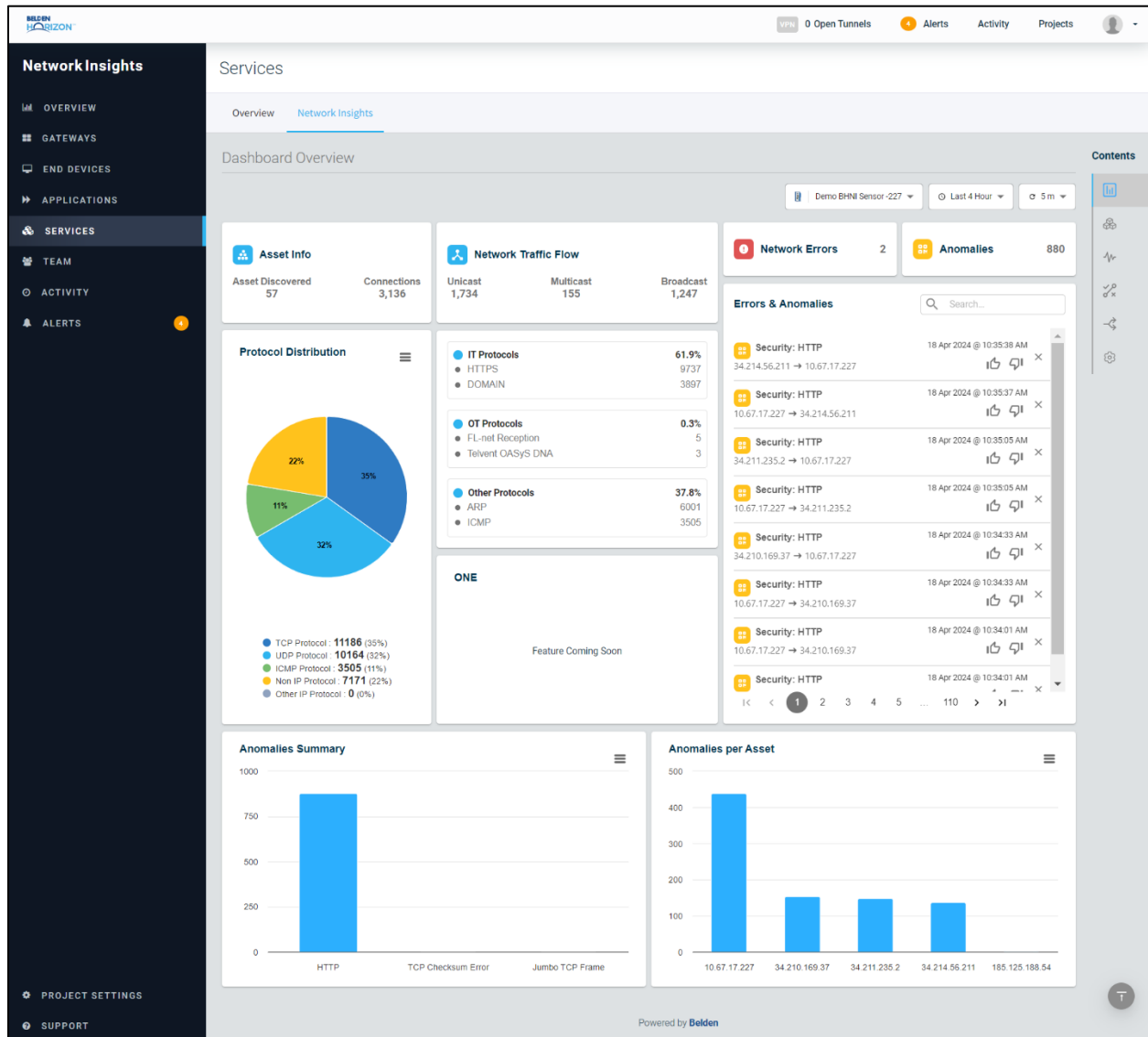
11 Three drop-down lists are present in each of the Network Insights menus:

- Select the device to view the Network insights.
- Select the time frame.
- Select the refresh duration of the dashboard.



4.1 Dashboard Overview

The *Dashboard Overview* contains various information about Network Insights.



4.1.1 Asset Info

The *Asset Info* section contains information of discovered assets and connections. Clicking inside the section redirects to the [Assets Menu](#).

Parameter	Description
Asset Discovered	This displays the count of the discovered unique assets within the selected duration on the dashboard.
Connections	This displays the count of the connections between assets with unique IP address that are communicating within the monitored network (monitor port example eth0) within the selected duration on the dashboard.

4.1.2 Network Traffic Flow

The *Network Traffic Flow* section contains Unicast, Multicast and Broadcast information. Clicking inside the frame redirects to the [Traffic Flow Menu](#).

Parameter	Description
Unicast	This displays the count of individual messages sent from one sender to one receiver within the network.
Multicast	This displays the count of messages sent from one sender to a group of receivers within the network.
Broadcast	This displays the count of messages sent from one sender to all the receivers within the network.

4.1.3 Network Errors

This displays the errors count. Clicking inside the frame redirects to the [Alerts & Anomalies Menu](#).

4.1.4 Anomalies

This displays the anomalies count. Clicking inside the frame redirects to the [Alerts & Anomalies Menu](#).

4.1.5 Errors & Anomalies

Refer to [Errors & Anomalies](#).

4.1.6 Protocol Distribution

This displays the protocol sessions as a percentage in a pie chart within the selected duration on the dashboard.

- TCP Sessions
- UDP Sessions
- ICMP Sessions
- Non-IP Sessions
- Other IP Sessions

4.1.7 Anomalies Summary

This displays the anomalies count in a bar chart.

4.1.8 Anomalies per Asset

This displays the anomalies count for each asset in a bar chart.

4.2 Assets Menu

This menu consists of two tabs:

- All
- Assets

4.2.1 All Tab

The dashboard determines the details of a particular Asset found in the network within the selected duration. It provides the following information:

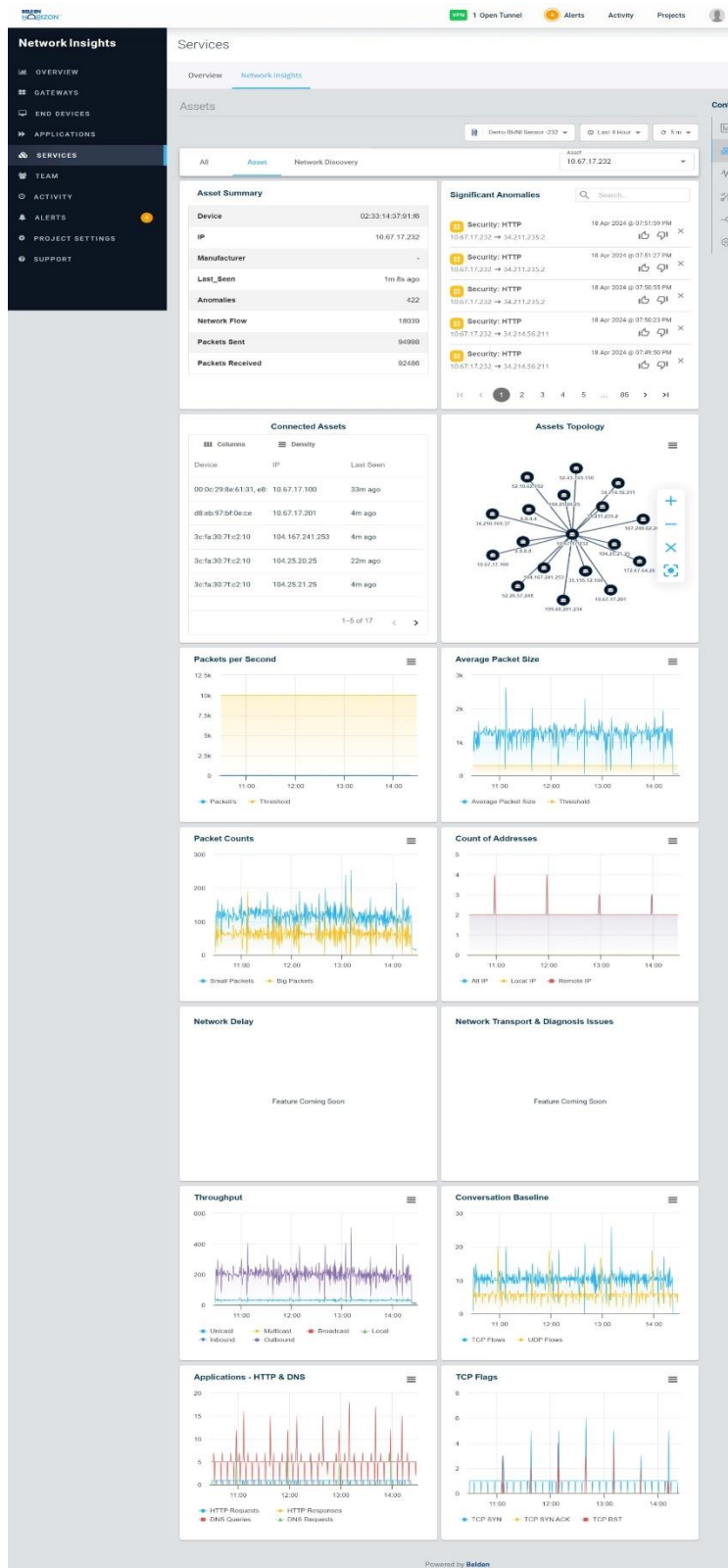
- Discovery (Active or Passive)
- Device MAC address
- IP address
- Manufacturer
- Last seen (time when the asset was last active in the network)

The screenshot shows the 'Assets' menu in the Belden Horizon interface. The left sidebar contains navigation options: OVERVIEW, GATEWAYS, APPLICATIONS, SERVICES (highlighted), TEAM, ACTIVITY, and ALERTS. The main content area displays a table of assets under the 'All' tab. The table has columns for Discovery, Device, IP, Manufacturer, Last Seen, and Actions. All assets listed are 'PASSIVE' and were last seen '1h ago'. The manufacturers include Cisco Systems, Inc., Fortinet, Inc., and Prosoft Technology, Inc.

Discovery	Device	IP	Manufacturer	Last Seen	Actions
PASSIVE	08:00:27:00:00:00	0.0.0.0	Cisco Systems, Inc	1h ago	Details
PASSIVE	08:00:27:00:00:00	10.14.0.16	Fortinet, Inc.	1h ago	Details
PASSIVE	08:00:27:00:00:00	10.20.254.130	—	1h ago	Details
PASSIVE	08:00:27:00:00:00	10.20.254.180	Prosoft Technology, Inc	1h ago	Details
PASSIVE	08:00:27:00:00:00	10.20.254.26	Prosoft Technology, Inc	1h ago	Details
PASSIVE	08:00:27:00:00:00	34.209.222.202	Fortinet, Inc.	1h ago	Details
PASSIVE	08:00:27:00:00:00	35.81.107.96	Fortinet, Inc.	1h ago	Details
PASSIVE	08:00:27:00:00:00	52.26.57.248	Fortinet, Inc.	1h ago	Details
PASSIVE	08:00:27:00:00:00	52.40.77.59	Fortinet, Inc.	1h ago	Details

4.2.2 Asset Tab

In the Asset tab, select the asset from the **ASSET** drop-down list to view its details. The following information is displayed:



Parameter	Description
Asset Summary	<p>This displays the details of a particular Asset for the selected duration on the dashboard (example: last 4 hours, last 12 hours, etc.).</p> <p>It provides information such as:</p> <ul style="list-style-type: none"> • Device (MAC Address) • IP address • Last seen time (time when the asset was last active on the network) • Anomalies (number of variations on the network involving this asset) • Network Flow (total number of packets transferred from the asset) • Packets Sent (number of packets sent by the asset) • Packets Received (number of packets received by the asset).
Significant Anomalies	<p>This determines the details of anomalies present for a particular Asset with a specific source IP address found in the network within the selected duration on the dashboard (example: last 4 hours, last 12 hours, etc.) in seconds, which are not calculated by the Machine Learning.</p>
Connected Assets	<p>This displays the list of Assets that are connected to the asset selected by the user from the Asset drop-down list for the selected duration (example: last 4 hours, last 12 hours, etc.).</p> <p>It provides information such as:</p> <ul style="list-style-type: none"> • MAC Address • IP address • Last seen time (time when the asset was last active on the network)
Assets Topology	<p>This determines the source address, destination address, and the flow of packets for a particular asset found in the network within the selected duration on the dashboard (example: last 4 hours, last 12 hours, etc.) in seconds. This reveals how the assets are connected and how the data is flowing.</p>
Packets per Second	<p>This calculation determines the total number of packets sent divided by the selected duration on the dashboard (example: last 4 hours, last 12 hours, etc.) in seconds. The result represents the packets per second.</p>
Average Packet Size	<p>This displays the average length of the packets for a specific Asset with a particular source IP address found in the network within the selected duration on the dashboard (example: last 4 hours, last 12 hours, etc.) in seconds.</p>
Packet Counts	<p>This calculation determines the total number of small packets and big packets within the selected duration on the dashboard (example: last 4 hours, last 12 hours, etc.) in seconds.</p>
Count of Addresses	<p>This determines the count of IP addresses for a specific Asset with a particular source IP address found in the network within the selected duration on the dashboard (example: last 4 hours, last 12 hours, etc.) in seconds. These counts are calculated separately as <i>All IP</i>, <i>Local IP</i>, and <i>Remote IP</i>.</p>
Throughput	<p>This determines the number of packets transmitted for a specific Asset found in the network within the selected duration on the dashboard (example: last 4 hours, last 12 hours, etc.) in seconds. These calculations are done separately for Unicast, Multicast, Broadcast, Local, Inbound, and Outbound packets.</p>
Conversation Baseline	<p>This determines the count of packets for a specific Asset with a particular IP address found in the network within the selected duration on the dashboard (example: last 4 hours, last 12 hours, etc.) in seconds. These calculations are done separately for TCP flows and UDP flows.</p>
Applications – HTTP & DNS	<p>This process calculates the total number of HTTP requests and responses, DNS queries, and responses for a specific Asset with a particular IP address found in the network within the selected duration on the dashboard (example: last 4 hours, last 12 hours, etc.) in seconds. These calculations are performed separately for Unicast, Multicast, Broadcast, Local, Inbound, and Outbound packets.</p>

TCP Flags

This process determines the TCP flag value (from the following parameters: SYN_FLAG_SET, SYN_ACK_FLAG_SET, RESET_FLAG_SET) for a specific Asset with a particular IP address found in the network within the selected duration on the dashboard (example: last 4 hours, last 12 hours, etc.) in seconds.

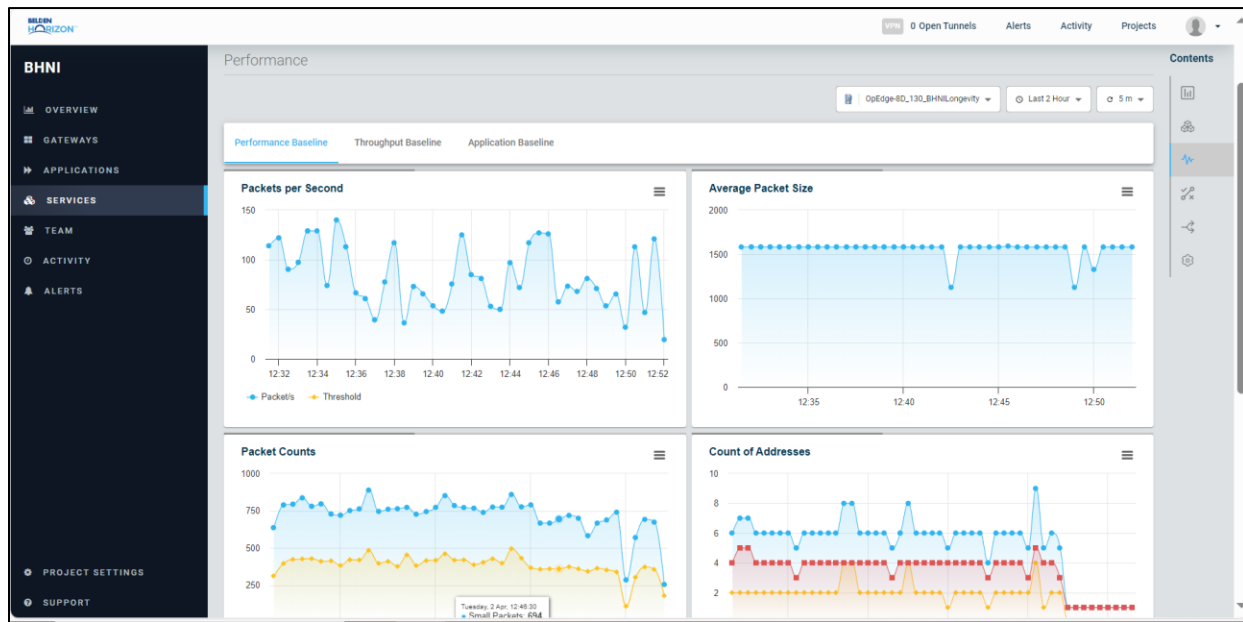
4.3 Performance Menu

This menu consists of three tabs:

- *Performance Baseline*
- *Throughput Baseline*
- *Application Baseline*

4.3.1 Performance Baseline

In the *Performance Baseline* tab, the following information is displayed:

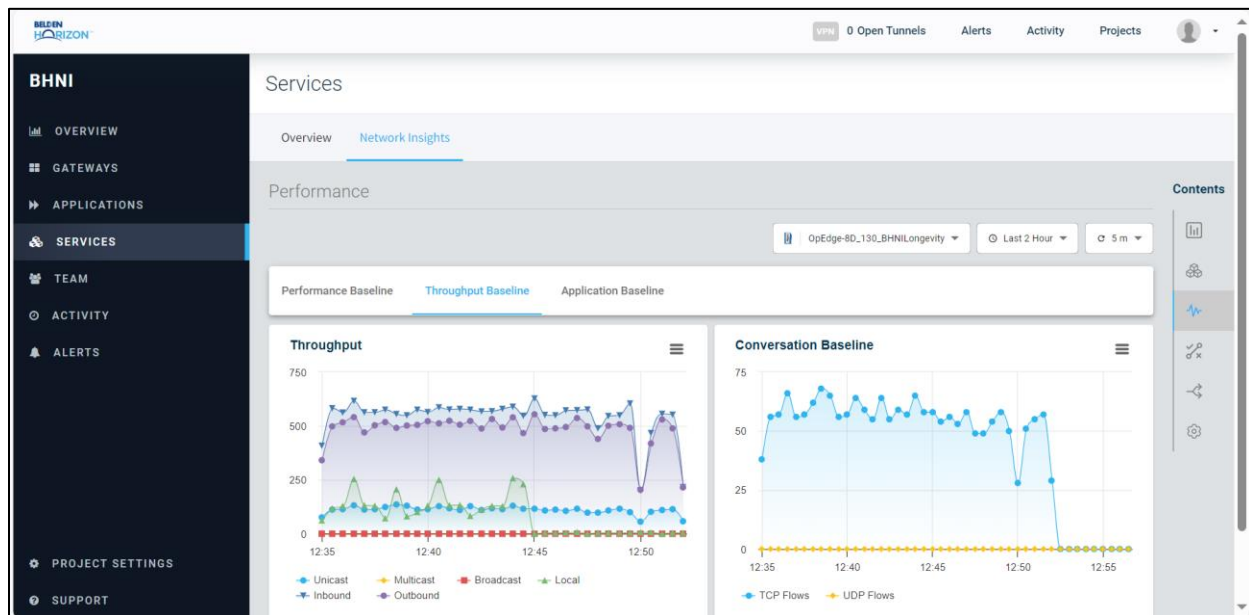


Parameter	Description
Packets per second	In the context of "Packet per Second" (PPS), performance refers to measuring how many individual data packets a network can process within one second. This metric is crucial for evaluating the efficiency and capacity of a network in handling data traffic. A higher PPS value indicates better performance, displaying the network's ability to manage a larger volume of packets and, consequently, support communication that is more concurrent.
Average Packet Size	The average packet size in a network affects performance. A smaller size can result in more frequent but smaller data transfers, while a larger size implies fewer but more significant transfers. This affects bandwidth usage, latency, and overall data throughput, underscoring the importance of optimizing packet sizes for efficient network operation.
Packet Counts	This in network performance refers to the tally of individual data packets transmitted or received. Monitoring these counts is crucial for evaluating network activity. A higher count may signal increased usage, potentially causing congestion. A lower count could indicate underutilization. Analyzing packet counts helps administrators identify trends, troubleshoot issues, and optimize network efficiency to achieve an optimal balance between capacity and usage for peak performance.

Counts of Addresses	This in network performance refers to the total number of unique addresses, such as IP addresses, in a network. It is a key metric for evaluating scalability and network management. Efficiently handling this count is vital to prevent conflicts and maintain smooth communication among devices.
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4.3.2 Throughput Baseline

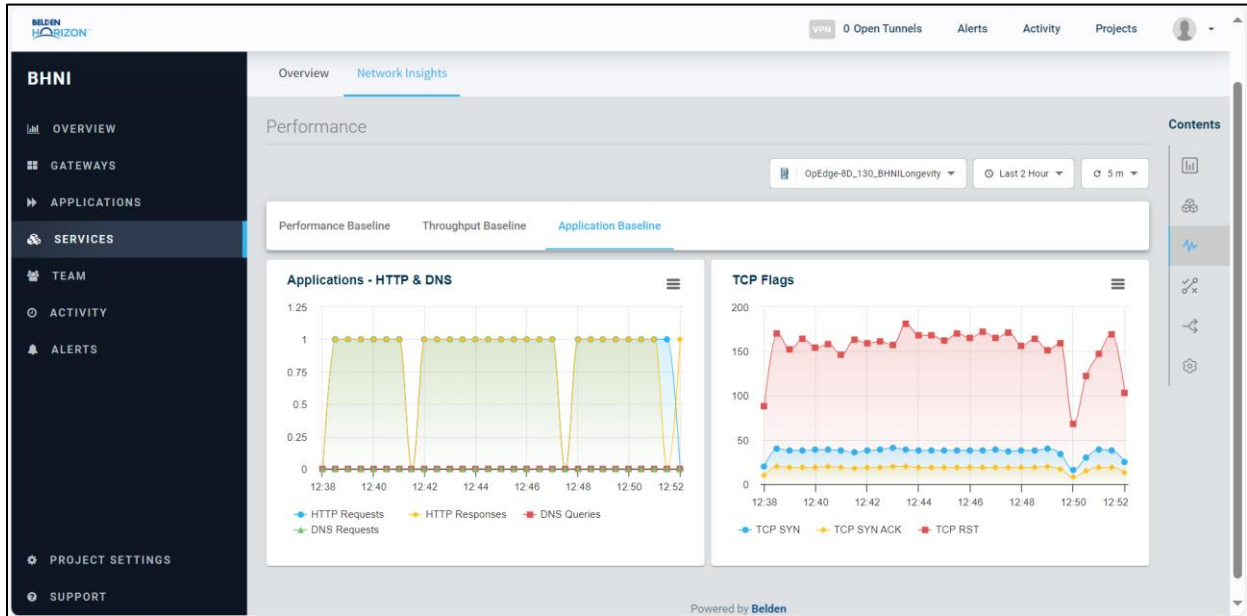
In the *Throughput Baseline* tab, the following information is displayed:



Parameter	Description
Throughput	Throughput, a key metric in network performance, quantifies the rate of successful data transmission. Unicast throughput evaluates the speed of point-to-point communication, multicast measures efficiency in one-to-many scenarios, and broadcast assesses one-to-all communication. Local throughput gauges data transfer within a specific network, while inbound and outbound throughputs quantify the speed of data received and sent externally. Optimizing these types of throughput is essential for enhancing network efficiency, reducing latency, and ensuring swift, reliable data transmission across diverse communication scenarios.
Conversation Baseline	Conversation Baseline visually represents communication patterns between devices in a network. By establishing a conversation baseline, network administrators can identify normal behavior, detect anomalies, and optimize performance. This approach aids in troubleshooting, security monitoring, and ensuring that network activities align with expected patterns for efficient and reliable operation.

4.3.3 Application Baseline

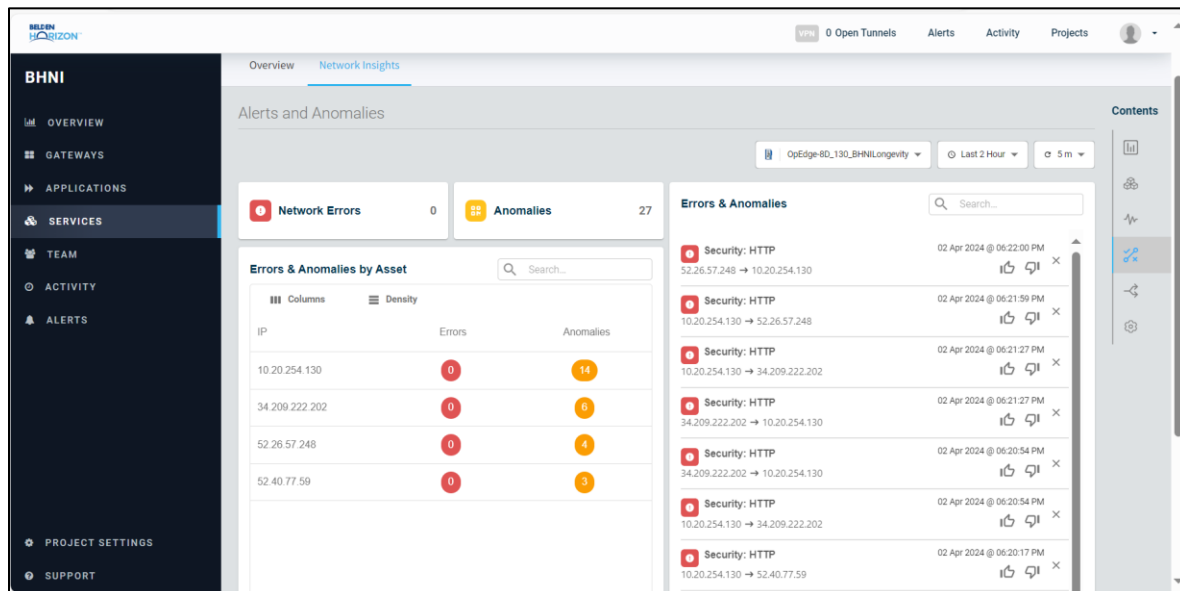
In the *Application Baseline* tab, the following information is displayed:



Parameter	Description
Applications HTTP & DNS	This process calculates the total number of HTTP requests and responses, DNS queries, and responses for a specific Asset with a particular IP address found in the network within the selected duration on the dashboard (example: last 4 hours, last 12 hours, etc.) in seconds.
TCP Flags	This process determines the TCP flag value (from the following parameters: SYN_FLAG_SET, SYN_ACK_FLAG_SET, RESET_FLAG_SET) for a specific Asset with a particular IP address found in the network within the selected duration on the dashboard (example: last 4 hours, last 12 hours, etc.) in seconds.

4.4 Alerts & Anomalies Menu

Networking Alerts are notifications or warnings generated by monitoring systems to inform administrators of specific events or conditions that may require attention. Anomalies refer to unexpected or abnormal patterns of behavior within the network that may indicate potential problems or security threats. Together, alerts and anomaly detection mechanisms contribute to the overall health and security of a network by providing real-time insights and facilitating prompt responses to emerging issues.



4.4.1 Network Errors

Network errors disrupt or cause problems that affect communication and data exchange between devices connected to the internet. These errors can result from issues such as server outages, DNS (Domain Name System) errors, bandwidth limitations, or problems with routers and switches. When network errors occur, users may experience slow internet speeds, website unavailability, or difficulty accessing online services. Timely troubleshooting and addressing issues are essential for maintaining a stable and reliable internet connection.

4.4.2 Anomalies

Anomalies refer to irregularities or deviations from the expected behavior within a computer network. These anomalies can encompass a wide range of events and behaviors, including unusual patterns of network traffic, unexpected changes in data transfer rates or abnormal activities that may indicate security threats.

4.4.3 Errors & Anomalies

Errors and anomalies disrupt or cause irregularities that can impact the functionality, performance, and security of a computer network.

4.4.4 Errors & Anomalies by Asset

Monitoring errors and anomalies by asset involves tracking deviations or irregularities at the individual device or application level within a network. This approach provides detailed insights into the performance, security, and overall health of each asset. By identifying specific errors or anomalies associated with a particular asset, network administrators can efficiently troubleshoot, diagnose, and resolve issues, optimizing the overall reliability and security of the network.

4.5 Traffic Flow Menu

This menu consists of four tabs:

- *Unicast Flow*
- *Multicast Flow*
- *Broadcast Flow*
- *Topology Graph*

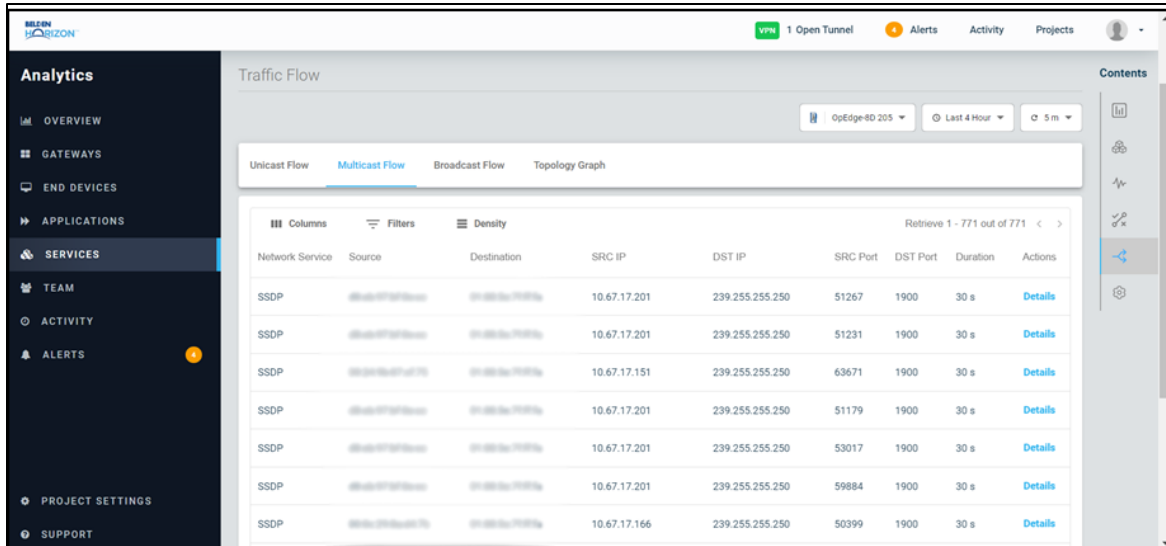
4.5.1 Unicast Flow

Unicast refers to one-to-one communication, where data packets are sent from a single source to a single destination. For example, sending an email or loading a web page.

Network Service	Source	Destination	SRC IP	DST IP	SRC Port	DST Port	Duration	Actions
HTTPS	10.20.254.130	54.149.123.125	10.20.254.130	54.149.123.125	49249	443	1 s	Details
HTTPS	10.20.254.130	54.149.123.125	10.20.254.130	54.149.123.125	41123	443	1 s	Details
HTTPS	10.20.254.130	54.149.123.125	10.20.254.130	54.149.123.125	34427	443	1 s	Details
HTTPS	10.20.254.130	54.149.123.125	10.20.254.130	54.149.123.125	45523	443	18 s	Details
HTTPS	10.20.254.130	54.149.123.125	10.20.254.130	54.149.123.125	36641	443	1 s	Details
HTTPS	10.20.254.130	54.149.123.125	10.20.254.130	54.149.123.125	58481	443	1 s	Details
HTTPS	10.20.254.130	54.149.123.125	10.20.254.130	54.149.123.125	42841	443	1 s	Details

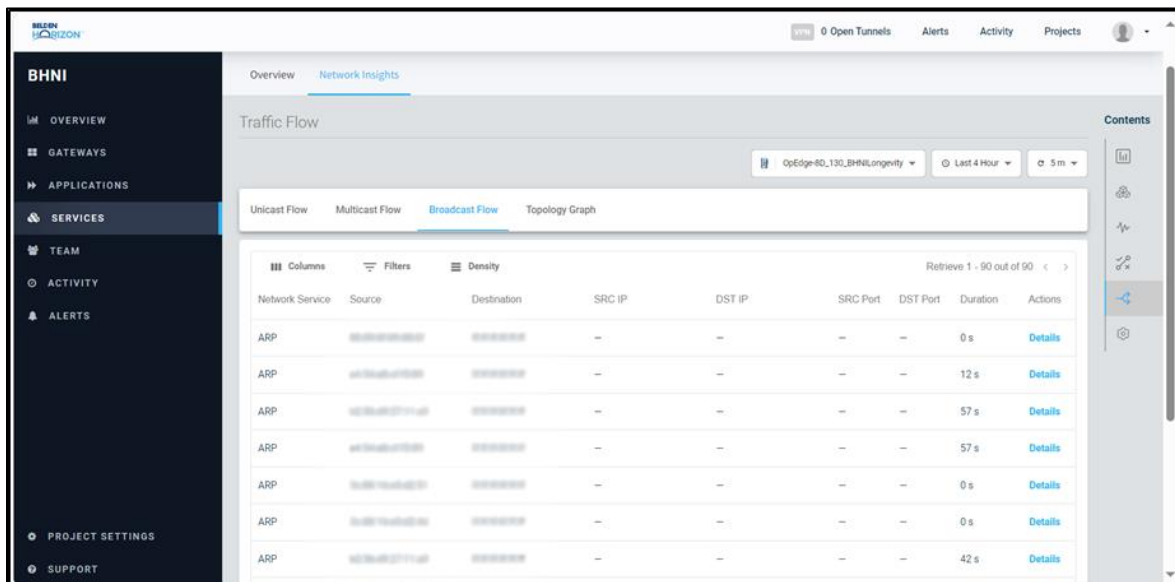
4.5.2 Multicast Flow

Multicast refers to one-to-many or many-to-many communication, in which data packets are sent from one source to multiple specific destinations. For example, streaming video to multiple recipients simultaneously.



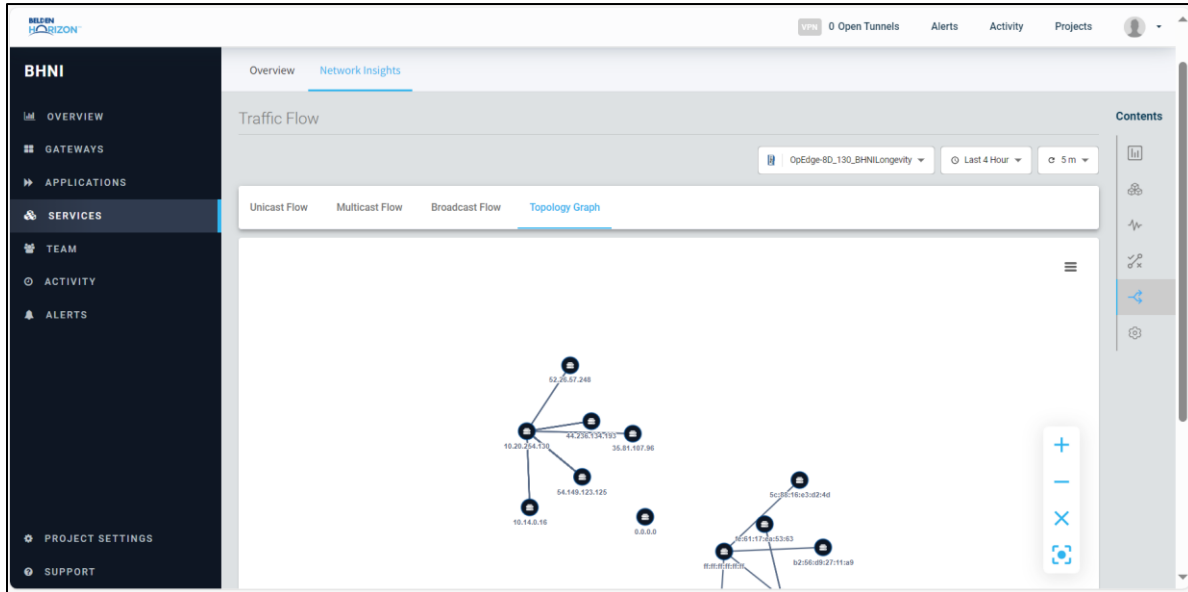
4.5.3 Broadcast Flow

Broadcasting refers to one-to-all communication, where data packets are sent from a single source to all devices within the network. For example, broadcasting a message to all devices on a local network.



4.5.4 Topology Graph

The Topology Graph is a visual representation that illustrates the arrangement of interconnected devices in a computer network and the paths along which data flows between them. It highlights the relationships and connections among network components.



4.6 Settings Menu

This menu consists of three tabs:

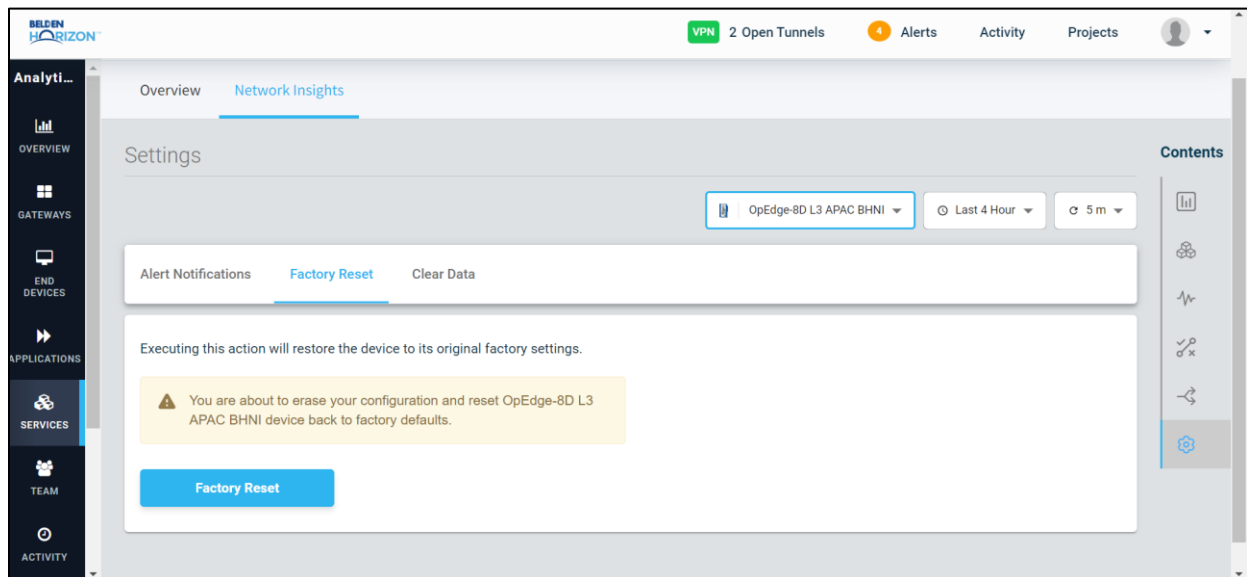
- *Alert Notifications*
- *Factory Reset*
- *Clear Data*

4.6.1 Alert Notifications

Feature coming soon.

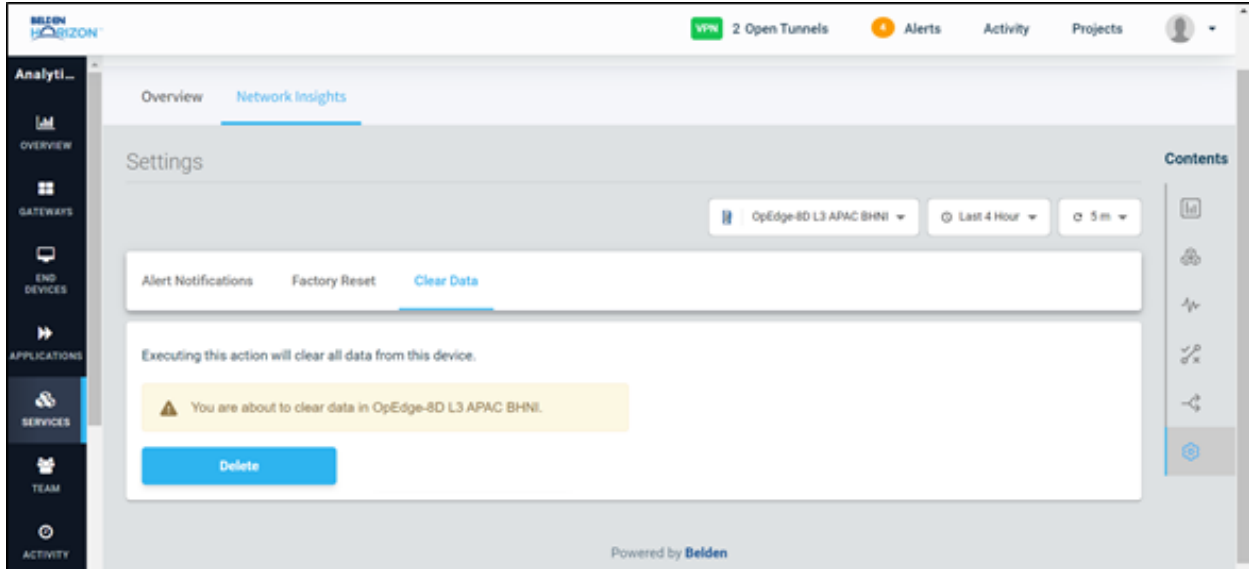
4.6.2 Factory Reset

The *Factory Reset* tab can be used to reset the device to its factory settings. To do this, click the **FACTORY RESET** button and confirm.



4.6.3 Clear Data

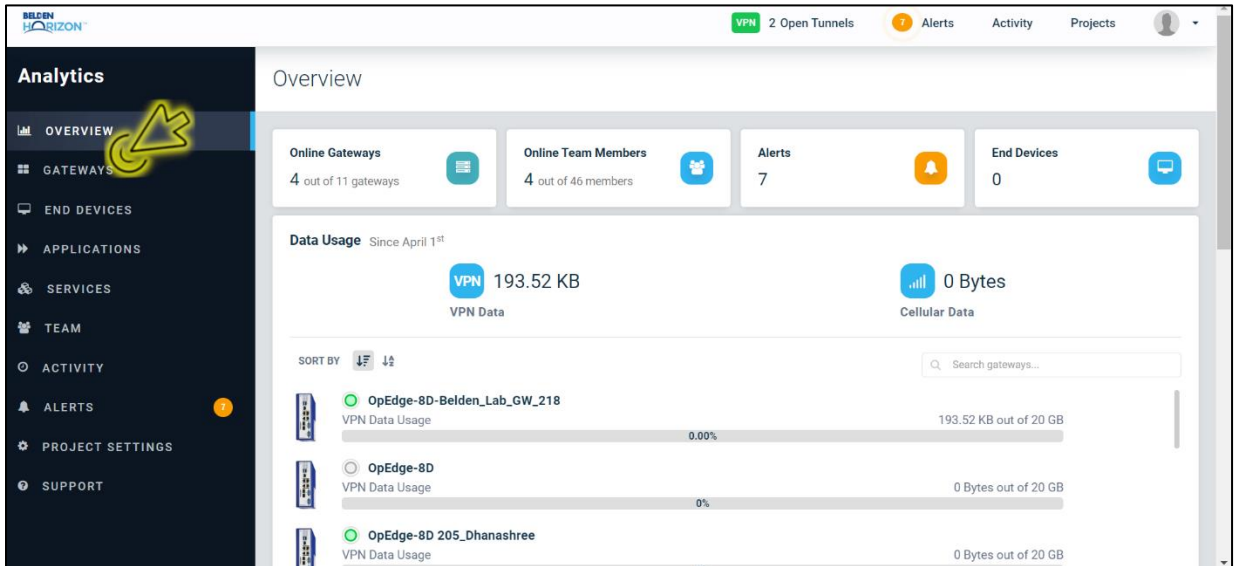
The *Clear Data* tab can be used to clear the data for the device. To do this, click the **DELETE** button.



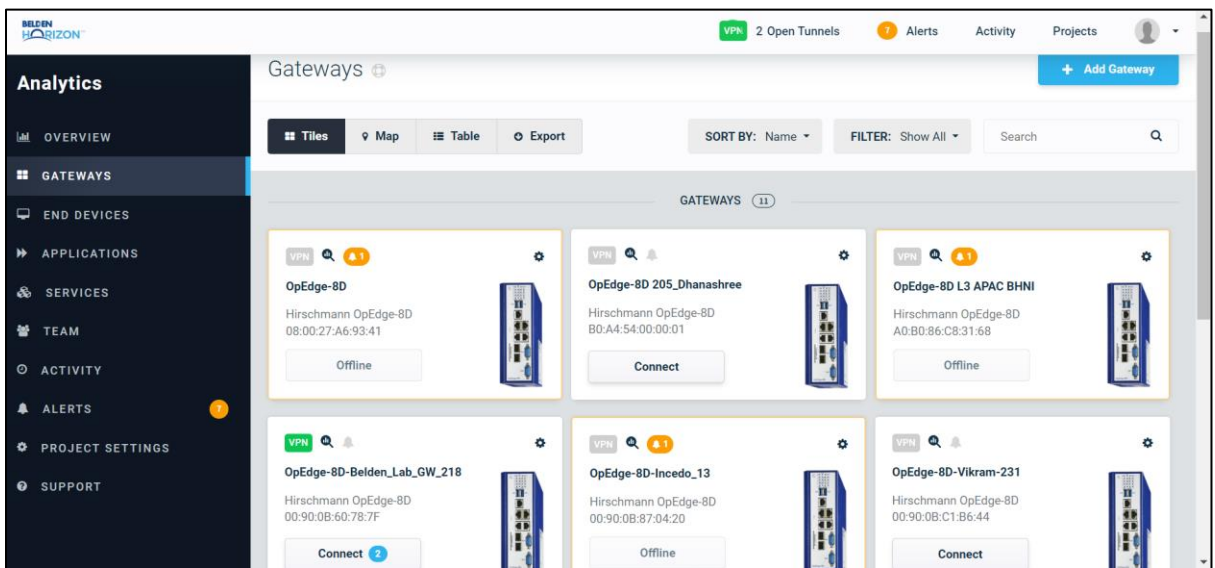
5 Container Removal

To remove an installed container, perform following steps:

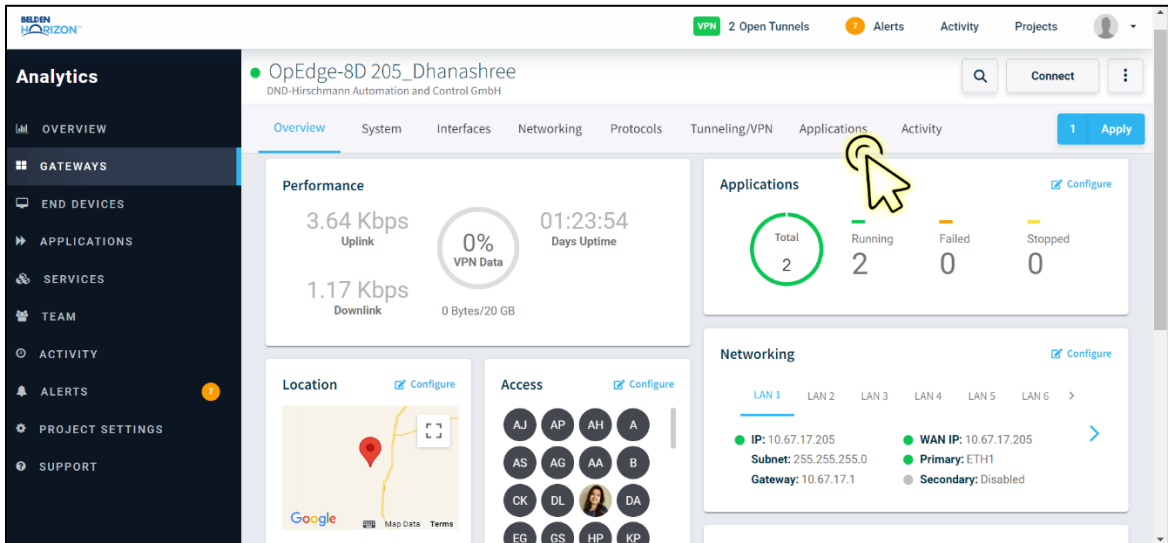
- 1 Open the website <https://belden.io> and log in.
- 2 Click on **GATEWAYS** in the left panel.



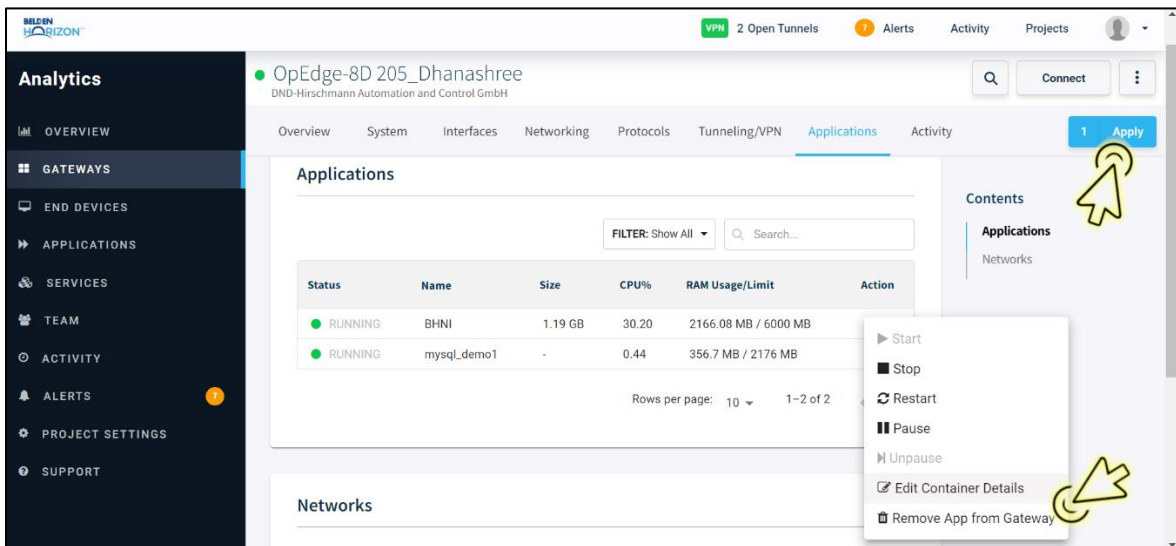
- 3 Click on the relevant gateway name to open its *Overview* page.



- 4 Click on the *Applications* tab.



- 5 Locate the relevant container and select the **REMOVE APP FROM GATEWAY** option in the *Action* column. This will remove the container from the gateway. Then click on the **APPLY** button.



6 Support, Service, and Warranty

6.1 Contacting Technical Support

ProSoft Technology, Inc. is committed to providing the most efficient and effective support possible. Before calling, please gather the following information to assist in expediting this process:

- 1 Product Version Number
- 2 System architecture
- 3 Network details

If the issue is hardware related, we will also need information regarding:

- 1 Module configuration and associated ladder files, if any
- 2 Module operation and any unusual behavior
- 3 Configuration/Debug status information
- 4 LED patterns
- 5 Details about the interfaced serial, Ethernet or Fieldbus devices

Note: For technical support calls within the United States, ProSoft Technology's 24/7 after-hours phone support is available for urgent plant-down issues.

<p>North America (Corporate Location) Phone: +1.661.716.5100 info@prosoft-technology.com Languages spoken: English, Spanish REGIONAL TECH SUPPORT support@prosoft-technology.com</p>	<p>Europe / Middle East / Africa Regional Office Phone: +33.(0)5.34.36.87.20 france@prosoft-technology.com Languages spoken: French, English REGIONAL TECH SUPPORT support.emea@prosoft-technology.com</p>
<p>Latin America Regional Office Phone: +52.222.264.1814 latinam@prosoft-technology.com Languages spoken: Spanish, English REGIONAL TECH SUPPORT support.la@prosoft-technology.com</p>	<p>Asia Pacific Regional Office Phone: +60.3.2247.1898 asiapc@prosoft-technology.com Languages spoken: Bahasa, Chinese, English, Japanese, Korean REGIONAL TECH SUPPORT support.ap@prosoft-technology.com</p>

For additional ProSoft Technology contacts in your area, please visit:

www.prosoft-technology.com/About-Us/Contact-Us.

6.2 Warranty Information

For complete details regarding ProSoft Technology's TERMS & CONDITIONS OF SALE, WARRANTY, SUPPORT, SERVICE AND RETURN MATERIAL AUTHORIZATION INSTRUCTIONS, please see the documents at: www.prosoft-technology.com/legal