



GigaVUE Cloud Suite Deployment Guide - VMware (NSX-T)

GigaVUE Cloud Suite

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GigaVUE Cloud Suite Deployment Guide - VMware (NSX-T)

GigaVUE Cloud Suite for VMware uses intelligent filtering to select and forward specific virtual machine (VM) traffic to the monitoring infrastructure. It connects centrally to the Gigamon Deep Observability Pipeline and removes traffic blind spots in enterprise private clouds and service provider NFV deployments.

This guide helps you learn you how to install, deploy, and operate GigaVUE V Series Nodes in VMware.

Topics:

- [Overview of GigaVUE Cloud Suite for VMware](#)
- [Architecture for GigaVUE Cloud Suite for VMware NSX-T](#)
- [Introduction to Supported Features in GigaVUE Cloud Suite for VMware NSX-T](#)
- [Volume-Based License](#)
- [Supported Hypervisors for VMware](#)
- [Points to Note \(VMware NSX-T\)](#)
- [Prerequisites for Integrating GigaVUE V Series Nodes with NSX-T](#)
- [Install and Upgrade GigaVUE-FM](#)
- [Deployment Options for GigaVUE Cloud Suite for VMware \(NSX-T\)](#)
- [Deploy GigaVUE Cloud Suite for VMware \(NSX-T\)](#)
- [Upgrade GigaVUE V Series Node for VMware NSX-T](#)
- [Cloud Overview Page \(VMware\)](#)
- [Configure Monitoring Session](#)
- [Migrate Application Intelligence Session to Monitoring Session](#)
- [Monitor Cloud Health](#)
- [Configure VMware Settings](#)
- [Analytics for Virtual Resources](#)
- [Remove Gigamon Service from NSX-T and GigaVUE-FM](#)
- [GigaVUE V Series Deployment Clean up](#)

Overview of GigaVUE Cloud Suite for VMware

GigaVUE Cloud Suite for VMware enables you to manage and monitor network traffic in virtual environments. It captures, improves, and sends selected network traffic to your security and monitoring tools.

This solution works closely with VMware tools to give you clear visibility into traffic from virtual machines. It helps you understand what's happening in your private cloud.

GigaVUE-FM, a key part of the Cloud Suite, works with VMware vCenter to automatically set up GigaVUE V Series Node to support a growing private cloud infrastructure. It also helps track changes in workloads and keeps traffic policies working properly.

Benefits:

- **Flexible Traffic Acquisition:** Collects traffic using port mirroring in VMware ESXi.
- **Automated Visibility Provisioning:** Automatically sets up and applies traffic rules as new users or groups are added.
- **Improved Tool Efficiency:** Filters and balances traffic to reduce the load on your monitoring tools.
- **Application Intelligence Solution:** Detects thousands of applications and accesses over 7,000 application metadata elements to understand your network better.

Components for GigaVUE Cloud Suite for VMware

GigaVUE Cloud Suite for VMware comprises multiple elements that enable traffic acquisition, aggregation, intelligence and distribution, along with centralized, single-pane-of-glass orchestration and management.

Main Components

| Component | Description |
|---|--|
| GigaVUE-FM fabric manager (GigaVUE-FM) | Represents a web-based tool that helps you manage physical and virtual network traffic that forms GigaVUE Cloud Suite for VMware. It gives you complete visibility and control of your entire VMware cloud suite from one dashboard. GigaVUE-FM generates a complete network map to easily see which cloud systems are connected to the deep observability pipeline. It can manage hundreds of visibility nodes across on-premises and cloud environments. It also handles the setup for all other components in your platform. |
| GigaVUE® V Series Node | Represents a node that collects mirrored traffic, applies filters, and processes data using GigaSMART applications. It then sends the optimized traffic to your cloud-based tools or back to on-premises tools. |

Cloud Overview Page (VMware)

The Overview page lets you view and manage all Monitoring Sessions in one place. You can quickly find issues to help with troubleshooting or take simple actions like viewing, editing, cloning, or deleting sessions.

This page shows key information at a glance, including:

- Basic statistics
- V Series alarms
- Connection status
- Volume usage vs. allowance
- A summary table of active monitoring sessions

You can edit a Monitoring Session directly from this page without switching to each platform's session page.

How to Access the Overview Page

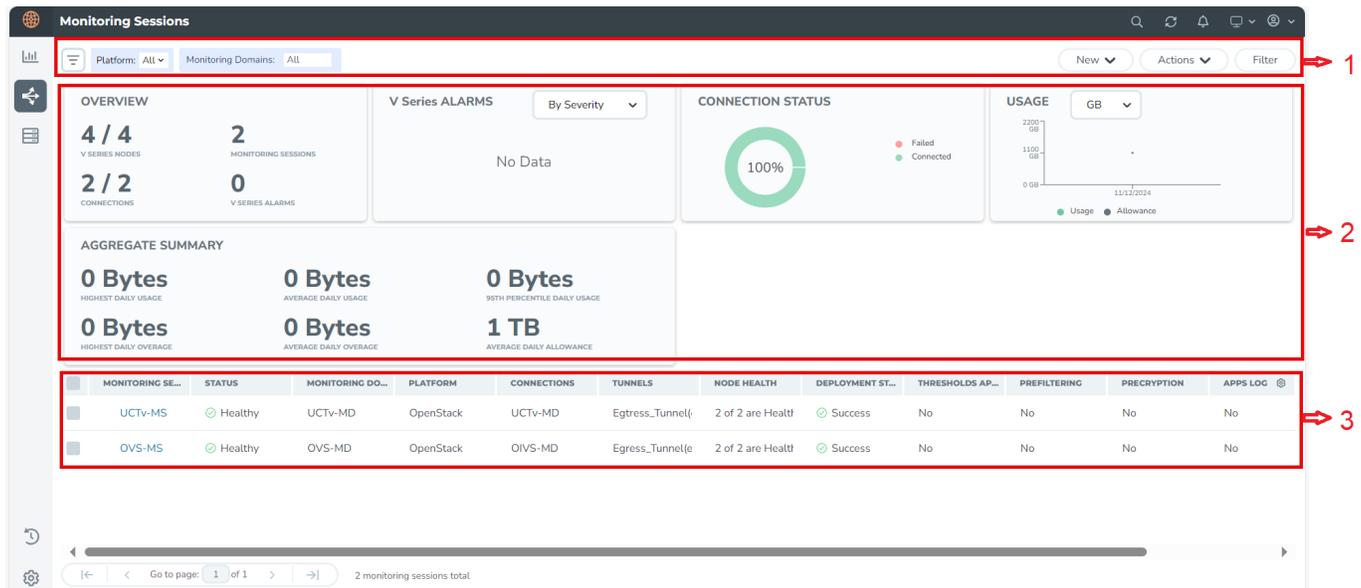
You can access the overall Cloud overview or the platform-specific Cloud overview.

Perform one of the following:

- Go to Traffic > Virtual > Overview for the overall cloud overview page.

- For the Platform-specific cloud overview details:
 1. Go to Traffic > Virtual > Overview.
 2. On the top-left menu from the Platform drop-down option, select the name of your cloud.

The **Monitoring Sessions** page appears.



Page Layout for Easy Use

The page is split into three main sections for easier navigation, as displayed in the screenshot and explained in the following table:

| Number | Section | Description |
|--------|----------------------------|---|
| 1 | Top Menu | Refer to Cloud Overview Page (VMware) . |
| 2 | Charts | Refer to Cloud Overview Page (VMware) . |
| 3 | Monitoring Session Details | On the Overview page, you can view the Monitoring Session details of all the cloud platforms. For details, refer to the Cloud Overview Page (VMware) section. |

Top Menu

The Top menu consists of the following options:

| Options | Description |
|----------------|--|
| New | Allows to create a new Monitoring Session and new Monitoring Domain. |
| Actions | Allows the following actions: |

| Options | Description |
|---------------|--|
| | <ul style="list-style-type: none"> • Edit: Opens the edit page for the selected Monitoring Session. • Delete: Deletes the selected Monitoring Session. • Clone: Duplicates the selected Monitoring Session. • Deploy: Deploys the selected Monitoring Session. • Undeploy: Undeploys the selected Monitoring Session. • Apply Threshold: Applies the threshold template created for monitoring cloud traffic health. For details, refer to the <i>Monitor Cloud</i> section. • Apply Policy: Enables functions like Precryption, Prefiltering, or Secure Tunnel. |
| Filter | You can filter the Monitoring Session details based on a criterion or a combination of criteria. For more information, refer to Cloud Overview Page (VMware) . |

Filters

On the Monitoring Sessions page, you can apply the filters using the following options:

- [Filter on the left corner](#)
- [Filter on the right corner](#)

Filter on the left corner

1. From the **Platform** drop-down list, select the required platform.
2. Select  and select the Monitoring Domain.

You can select one or multiple domains. You can also edit and create a new Monitoring Domain in the filter section.

Filter on the right corner

Use this filter to narrow down results with one or more of the following:

- Monitoring Session
- Status
- Monitoring Domain
- Platform
- Connections
- Tunnel
- Deployment Status

Viewing Charts on the Overview Page

You can view the following charts on the overview page:

- Overview
- V Series Alarms
- Connection Status
- Usage
- Aggregate Summary

Overview

This chart shows:

- The number of active GigaVUE V Series Nodes.
- The number of configured Monitoring Sessions and connections.
- The number of V Series alarms triggered.

V Series Alarms

This widget uses a pie chart to display V Series alarms.

- Each alarm type has its own color that is visible in the legend.
- Hover over a section to see the total number of alarms triggered.

Connection Status

This pie chart shows the status of connections in a Monitoring Domain.

- Successful and failed connections are marked in different colors.
- Hover over a section to view the total number of connections.

Usage

The Usage chart shows daily traffic volume through the V Series Nodes.

- Each bar represents one day's usage.
- Hovering over a bar helps you see the volume used and the limit for that day.

Aggregate Summary

This summary shows key volume usage stats:

- Highest daily volume usage
- Average daily volume usage
- Highest daily over-usage
- Average daily over-usage
- 95th percentile daily usage
- Average daily volume allowance

Viewing Monitoring Session Details

The overview table shows key details about each monitoring session. You can use this table to check session health, view settings, or take actions quickly.

| Details | Description |
|---------------------|--|
| Monitoring Sessions | Displays the name of each session. Select a name to open the Monitoring Session's page in the selected cloud platform. |
| Status | Displays the Health status of the Monitoring Session. |
| Monitoring Domain | Displays the name of the Monitoring Domain to which the Monitoring Session is associated. |
| Platform | Indicates the Cloud platform in which the session is created. |
| Connections | Displays Connection details of the Monitoring Session. |
| Tunnels | Lists the Tunnel details related to the Monitoring Session. |
| Node Health | Displays the Health status of the GigaVUE V Series Node. |
| Deployment Status | Displays the status of the deployment. |
| Threshold Applied | Specifies if the threshold is applied. |
| Prefiltering | Specifies if Prefiltering is configured. |
| Preencryption | Specifies if Preencryption is configured. |
| APPS logging | Specifies if APPS logging is configured. |
| Traffic Mirroring | Specifies if Traffic Mirroring is configured. |

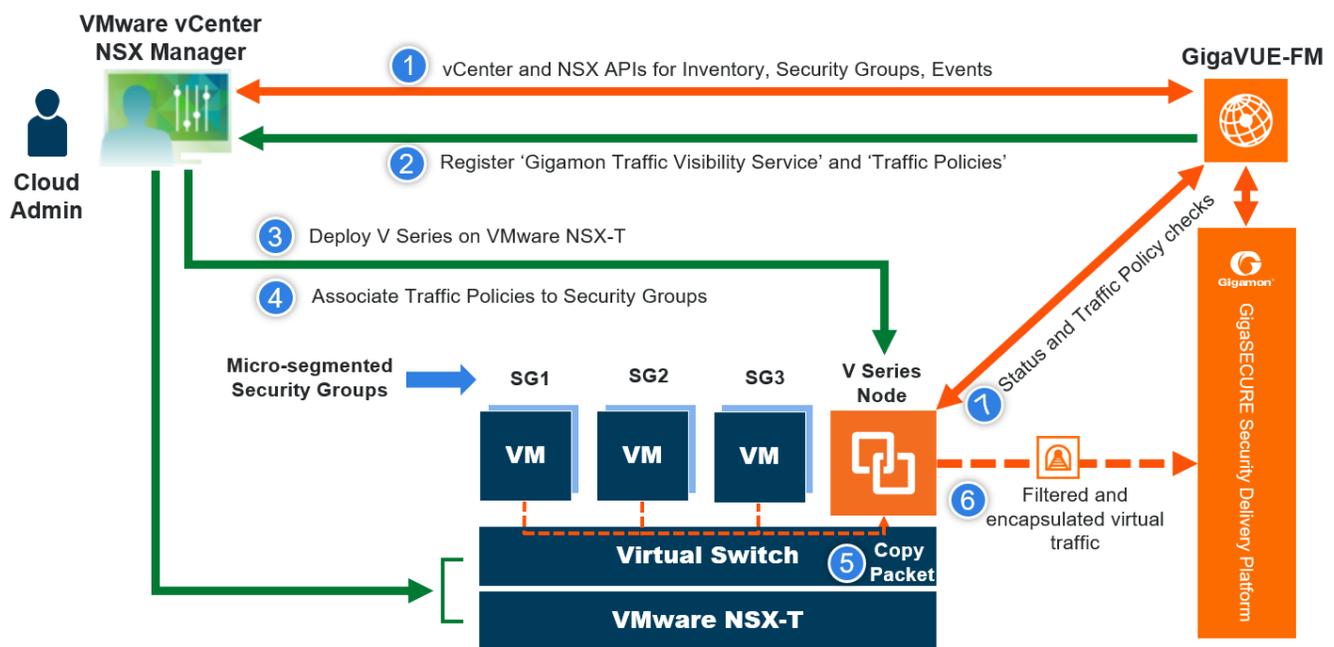
NOTE: Select the settings icon  and customize the options visible in the table.

Architecture for GigaVUE Cloud Suite for VMware NSX-T

This section provides an overview of the GigaVUE V Series Node deployment on the VMware NSX-T platform and describes the procedure for setting up the traffic monitoring sessions using the GigaVUE V Series Nodes. The GigaVUE V Series Nodes support traffic visibility on the NSX-T NVDS switch.

GigaVUE-FM creates, manages and deletes the GigaVUE V Series Nodes in the VMware NSX-T based on the configuration information provided by the user. GigaVUE-FM can communicate directly with the GigaVUE V Series Nodes.

The following diagram provides a high-level overview of the deployment:



Introduction to Supported Features in GigaVUE Cloud Suite for VMware NSX-T

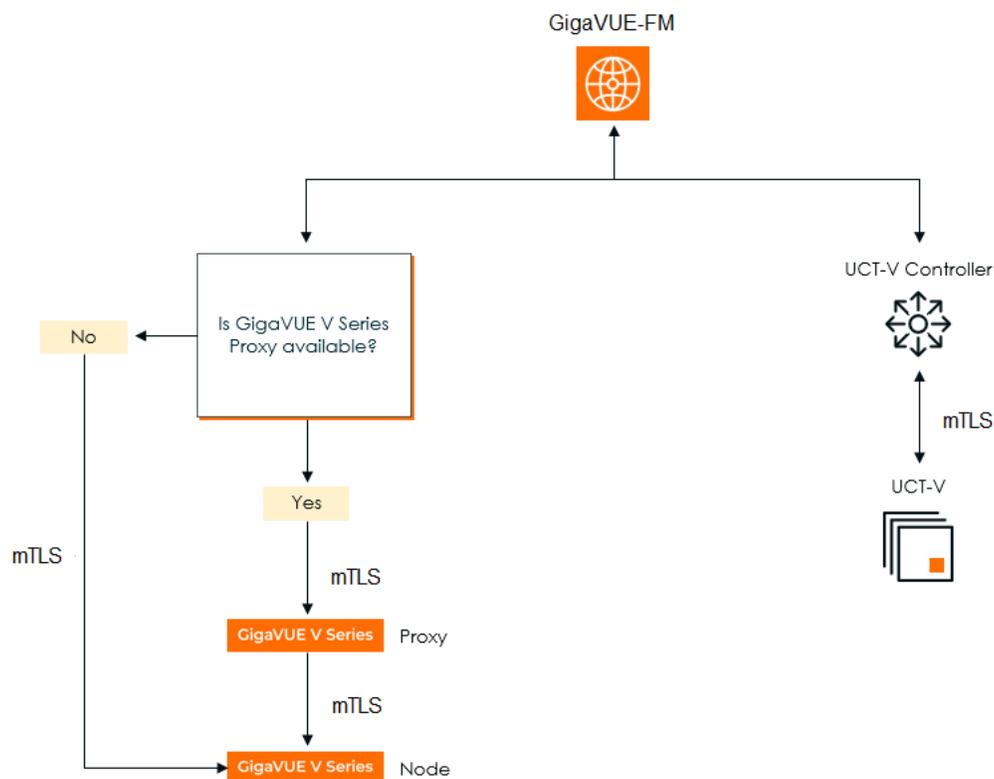
GigaVUE Cloud Suite for VMware (NSX-T) supports the following features:

- Increase or Decrease GigaVUE V Series Node
- Sharing the Same Host across Different Monitoring Domains
- Analytics for Virtual Resources
- Cloud Health Monitoring

Secure Communication between GigaVUE Fabric Components

The Secure Communication feature in GigaVUE-VM uses mutual TLS (mTLS) authentication to improve network security. It ensures all GigaVUE Fabric Components communicate over encrypted, verified connections using certificates issued by a Certificate Authority (CA), without relying on static credentials.

How it Works!



In this setup:

- GigaVUE-FM establishes an mTLS connection and checks for GigaVUE V Series Proxy availability.
- If GigaVUE V Series Proxy is unavailable, it directly connects to the GigaVUE V Series Node through mTLS.
- If a GigaVUE V Series is available, GigaVUE-FM first connects to the GigaVUE V Series Proxy and establishes an mTLS connection with the GigaVUE V Series Node.
- GigaVUE-FM also initiates an mTLS connection to the UCT-V Controller, establishing an mTLS connection with UCT-V.

This structured flow ensures secure communication using mTLS-based authentication across all the fabric components.

GigaVUE-FM acts as the PKI

GigaVUE-FM manages all certificates for fabric components. It acts as a private PKI and uses Step-CA with the ACME protocol to issue and renew certificates. This automated process reduces the need for manual certificate handling and avoids external dependencies.

Bring Your Own CA

If your organization already uses a corporate CA, you can import those certificates into GigaVUE-FM. This allows your existing PKI infrastructure to work with Gigamon's secure communication system.

For more details on how to integrate your PKI infrastructure with GigaVUE-FM, refer to [Integrate Private CA](#)

Secure Communication in FMHA Mode

In FMHA (Fabric Manager High Availability) mode:

- The active GigaVUE-FM instance shares intermediate CA files with all standby nodes.
- Only the active instance handles certificate requests. In case of a failover, a standby node takes over.
- The root and intermediate CAs are copied to all nodes to ensure continuity.
- If an instance is removed, it generates a new self-signed CA on restart.

Supported Platforms

- AWS
- Azure
- OpenStack
- Nutanix
- Third Party Orchestration
- VMware ESXi
- VMware NSX-T

Supported Components

- GigaVUE V Series Node
- GigaVUE V Series Proxy
- UCT-V
- UCT-V Controller

Rules and Notes

- If a public IP is revoked in public cloud platforms, you can issue a new certificate to remove the old IP.
- This feature is optional.
- Ensure NTP (Network Time Protocol) runs if GigaVUE-FM and components are on different hosts.
- Applying a certificate may temporarily cause a component to show as Down, but it recovers automatically.
- In AWS, disable the Source/Destination Check on network interfaces for GigaVUE V Series Proxy.

Note: Enabling this check may block traffic if the IP address does not match the associated interface.

Increase or Decrease GigaVUE V Series Node

You can add more nodes or remove nodes from an existing monitoring domain using GigaVUE-FM or VMware NSX-T manager, based on method you have deployed the GigaVUE V Series Nodes.

For more information, refer to the following topics:

- [Increase or Decrease GigaVUE V Series Nodes using GigaVUE-FM](#)
- [Increase or Decrease GigaVUE V Series Nodes using VMware NSX-T Manager](#)

Sharing the Same Host across Different Monitoring Domains

GigaVUE-FM enables you to share a host between VMware ESXi and VMware NSX-T monitoring domains. You can deploy multiple V Series nodes from VMware NSX-T monitoring domain and one V Series Node from VMware ESXi monitoring domain on the same host.

As a result, you can monitor the workload of virtual machines using the following two options:

- Connected to NSX segments using the V Series nodes deployed in NSX-T monitoring domain.
- Connected to regular VSS / VDS networks using the V Series node deployed in the ESXi monitoring domain.

NOTE: GigaVUE-FM cannot provide visibility in the ESXi platform to a Virtual Machine with NICs attached to both VMware NSX-T segments and ESXi VDS or VSS port groups.

Analytics for Virtual Resources

Analytics in GigaVUE-FM is a separate tool that helps you see your data through visual charts.

With Analytics, you can:

- Create charts and turn them into visualizations.
- Group visualizations into dashboards.
- Build search objects to find specific data.

These items, Dashboards, Visualizations, and Search Objects, are called Analytics objects.

For details, refer to [Analytics for Virtual Resources](#).

Cloud Health Monitoring

GigaVUE-FM helps you track the health of your monitoring sessions. You can check traffic flow and configuration status for each session and its parts.

This section explains how to:

- View the health of your monitoring sessions.
- Verify the status of each component.

For more information, refer to [Monitor Cloud Health](#).

Customer Orchestrated Source - Use Case

Customer Orchestrated Source is a traffic capture method that allows to tunnel traffic directly to the GigaVUE V Series Nodes. This method is practical when some restrictions or a firewall prevent the setting up of UCT-V or VPC Mirroring. You can tunnel the traffic to a GigaVUE V Series Node to filter and process.

When using this method, you can:

- Set up tunnels or raw endpoints directly in the monitoring session.
- Apply tools like Slicing, Masking, Application Metadata, and Application Filtering to process the tunneled traffic.

To learn how to configure tunnels and endpoints, see [Create Ingress and Egress Tunnel \(VMware NSX-T\)](#)

To set up,

- Configure an Ingress tunnel in the Monitoring Session.
- Use the GigaVUE V Series Node IP address as the destination IP address,

The traffic is directly tunneled to that GigaVUE V Series Node.

Volume-Based License

All the GigaVUE V Series Nodes connected to GigaVUE-FM periodically report statistics on the amount of traffic that flows through the V Series Nodes. The statistics reflect the data volume flowing through the V Series Nodes, with the usage statistics of all licensed applications that run on these nodes.

GigaVUE Cloud Suite uses volume-based licensing (VBL), available as monthly subscription licenses. In the Volume-based Licensing (VBL) scheme, specific applications on the V Series Nodes are entitled to a specified amount of total data volume over the term of the license.

Distributing the license to individual nodes becomes irrelevant for Gigamon accounting purposes. GigaVUE-FM monitors overall consumption across all nodes and tracks individual application usage and overages.

Related Information

- [Contact Sales](#): For purchasing licenses with the Volume-Based License (VBL) option.
- For more information, refer to the Data Sheet for the required GigaVUE Cloud Suite.

Base Bundles

In volume-based licensing scheme, licenses are offered as bundles. The following three base bundle types are available:

- CoreVUE
- NetVUE
- SecureVUE Plus

The bundles are available as SKUs¹. The SKUs are named such that the number indicates the total volume allowance of the SKU for that base bundle. For example, VBL-250T-BN-CORE indicates a daily volume allowance of 250 Terabytes (250T) for the CoreVUE bundle.

The features supported for base bundle licenses are given in the following table:

| Feature | CoreVUE | NetVUE | SecureVUE Plus |
|---|---------|--------|----------------|
| Slicing | √ | √ | √ |
| Masking | √ | √ | √ |
| Advanced Load Balancing | √ | √ | √ |
| Advanced Tunneling | √ | √ | √ |
| Deduplication | - | √ | √ |
| NetFlow Generation | - | √ | √ |
| Adaptive Packet Filtering (APF) | - | - | √ |
| Application Filtering Intelligence (AFI) | - | - | √ |
| Application Metadata Intelligence (AMI) | - | - | √ |
| Application Metadata Exporter (AMX) | - | - | √ |
| Inline Decryption | - | - | √ |

¹Stock Keeping Unit. Refer to the [What is a License SKU?](#) section in the FAQs for Licenses chapter.

| Feature | CoreVUE | NetVUE | SecureVUE Plus |
|---------------------------|---------|--------|----------------|
| OOB Decryption | - | - | √ |
| Preencryption | - | - | √ |
| Gigamon Enriched Metadata | - | - | √ |

Bundle Replacement Policy

Refer to the following notes:

- You can only upgrade to a higher bundle.
- You cannot have two different base bundles at the same time. However, you can have multiple base bundles of the same type.
- As soon as you upgrade to a higher bundle, the existing lower bundles are automatically deactivated.

Add-on Packages

GigaVUE-FM allows you to add add-on packages to the base bundles. These add-on packages allow you to add additional applications to your base bundles. Add-on packages have their own start/end date and volume specifications.

The following add-on SKUs are available:

- VBL-50T-ADD-5GC
- VBL-250T-ADD-5GC
- VBL-2500T-ADD-5GC
- VBL-25KT-ADD-5GC

Rules for add-on packages:

- An active base bundle is required to use an Add-on package.
- Your base bundle limits the total volume usage of the add-on package in the following ways:
 - If the volume allowance of your add-on package is less than the base bundle, then your add-on package can only handle the volume allocated for the add-on package.
 - When the life term of an add-on package extends beyond the base bundle, and the base bundle expires, the add-on package's volume allowance is reduced to zero until you add a new base bundle.
 - The total volume is cumulative when multiple base bundles of the same type are active within the same time interval.

For more information about SKUs, refer to the respective Data Sheets as follows:

- [GigaVUE Cloud Suite for VMware Data Sheet](#)
- [GigaVUE Cloud Suite for AWS Data Sheet](#)
- [GigaVUE Cloud Suite for Azure Data Sheet](#)
- [GigaVUE Cloud Suite for OpenStack](#)
- [GigaVUE Cloud Suite for Nutanix](#)

How GigaVUE-FM Tracks Volume-Based License Usage

GigaVUE-FM applies the following methods to track the license usage for each GigaVUE V Series Node:

- When you create and deploy a monitoring session, GigaVUE-FM allows you to use only applications with active licenses.
- When a license expires, you are notified with an audit log. For more information, refer to the *About Audit Logs* section in the respective GigaVUE Cloud Suite Deployment Guide.
- When a license expires (and has not been renewed yet), the monitoring sessions using the corresponding license are not undeployed.
- For releases prior to 6.4:
 - The Monitoring Sessions using the corresponding license are undeployed, but not deleted from the database.
 - Any undeployed monitoring sessions are redeployed when you renew a license or newly import the same.

NOTE: GigaVUE-FM displays a notification on the screen when the license expires.

All the GigaVUE V Series Nodes connected to GigaVUE-FM periodically report statistics on the amount of traffic that flows through the V Series Nodes. The statistics reflect the data volume flowing through the V Series Nodes, with the usage statistics of all licensed applications that run on these nodes.

GigaVUE Cloud Suite uses volume-based licensing (VBL), available as monthly subscription licenses. In the Volume-based Licensing (VBL) scheme, specific applications on the V Series Nodes are entitled to a specified amount of total data volume over the term of the license.

Distributing the license to individual nodes becomes irrelevant for Gigamon accounting purposes. GigaVUE-FM monitors overall consumption across all nodes and tracks individual application usage and overages.

Related Information

- [Contact Sales](#): For purchasing licenses with the Volume-Based License (VBL) option.
- For more information, refer to the Data Sheet for the required GigaVUE Cloud Suite.

Base Bundles

In volume-based licensing scheme, licenses are offered as bundles. The following three base bundle types are available:

- CoreVUE
- NetVUE
- SecureVUEPlus

The bundles are available as SKUs¹. The SKUs are named such that the number indicates the total volume allowance of the SKU for that base bundle. For example, VBL-250T-BN-CORE indicates a daily volume allowance of 250 Terabytes (250T) for the CoreVUE bundle.

Bundle Replacement Policy

Refer to the following notes:

- You can only upgrade to a higher bundle.
- You cannot have two different base bundles at the same time. However, you can have multiple base bundles of the same type.
- As soon as you upgrade to a higher bundle, the existing lower bundles are automatically deactivated.

¹Stock Keeping Unit. Refer to the [What is a License SKU?](#) section in the FAQs for Licenses chapter.

Add-on Packages

GigaVUE-FM allows you to add add-on packages to the base bundles. These add-on packages allow you to add additional applications to your base bundles. Add-on packages have their own start/end date and volume specifications.

The following add-on SKUs are available:

- VBL-50T-ADD-5GC
- VBL-250T-ADD-5GC
- VBL-2500T-ADD-5GC
- VBL-25KT-ADD-5GC

Rules for add-on packages:

- An active base bundle is required to use an Add-on package.
- Your base bundle limits the total volume usage of the add-on package in the following ways:
 - If the volume allowance of your add-on package is less than the base bundle, then your add-on package can only handle the volume allocated for the add-on package.
 - When the life term of an add-on package extends beyond the base bundle, and the base bundle expires, the add-on package's volume allowance is reduced to zero until you add a new base bundle.
 - The total volume is cumulative when multiple base bundles of the same type are active within the same time interval.

For more information about SKUs, refer to the respective Data Sheets as follows:

- [GigaVUE Cloud Suite for VMware Data Sheet](#)
- [GigaVUE Cloud Suite for AWS Data Sheet](#)
- [GigaVUE Cloud Suite for Azure Data Sheet](#)
- [GigaVUE Cloud Suite for OpenStack](#)
- [GigaVUE Cloud Suite for Nutanix](#)

How GigaVUE-FM Tracks Volume-Based License Usage

GigaVUE-FM applies the following methods to track the license usage for each GigaVUE V Series Node:

- When you create and deploy a monitoring session, GigaVUE-FM allows you to use only applications with active licenses.
- When a license expires, you are notified with an audit log. For more information, refer to the *About Audit Logs* section in the respective GigaVUE Cloud Suite Deployment Guide.
- When a license expires (and has not been renewed yet), the monitoring sessions using the corresponding license are not undeployed.
- For releases prior to 6.4:
 - The Monitoring Sessions using the corresponding license are undeployed, but not deleted from the database.
 - Any undeployed monitoring sessions are redeployed when you renew a license or newly import the same.

NOTE: GigaVUE-FM displays a notification on the screen when the license expires.

Default Trial Licenses

After installing GigaVUE-FM, you receive a one-time, free 1TB SecureVUE Plus trial Volume-Based License (VBL) for 60 days, starting from the installation date.

| SKU | BUNDLE | VOLUME | STARTS | ENDS | GRACE PERIOD | ACTIVATION ID | STATUS | TYPE |
|---------------------|---------------|----------------|------------|------------|--------------|----------------|--------|----------|
| VBL-1T-BN-SVP-TRIAL | SecureVUEPlus | 1024GB daily | 10/16/2024 | 11/15/2024 | 0 days | 4e8cb5a4-7e... | Active | Trial |
| VBL-2500T-BN-NV | NetVUE | 2560000GB d... | 10/04/2024 | 04/02/2025 | 30 days | 62a2ba16-ba... | Active | Internal |

This license includes the following applications:

- ERSPAN
- GENEVE
- Slicing
- Masking
- Trailer

- Tunneling
- Load Balancing
- Enhanced Load Balancing
- Flow map
- Header Stripping
- Header Addition
- De-duplication
- NetFlow
- Application Packet Filtering
- Application Filtering Intelligence
- Application Metadata Intelligence
- Application Metadata Exporter
- Inline SSL
- SSL Decrypt
- Precryption

NOTE: If you do not have any other volume-based licenses installed, the deployed monitoring sessions are undeployed from the existing GigaVUE V Series Nodes after 60 days at the expiration of the trial license.

When you install a new Volume-Based License (VBL), the existing trial license remains active alongside the new VBL. When the trial license period expires, it is automatically deactivated. After deactivation, the trial license moves to the Inactive tab on the VBL page.

Activate Volume-Based Licenses

To activate Volume-Based Licenses,

1. On the left navigation pane, select .
2. Go to **System > Licenses**.
3. From the top navigation bar, select the **VBL** from the **Activation** drop-down.
4. Select **Activate Licenses**. The **Activate License** page appears.
5. Select **IP Address** or **Hostname** to include this information. If you exclude the IP Address or Hostname, identify the chassis or GigaSMART card by its ID when activating.
6. Download the fabric inventory file that contains information about GigaVUE-FM.
7. Select **Next**. For details, refer to the What is a Fabric Inventory File section in *GigaVUE Licensing Guide*

8. Select **Gigamon License Portal**.
9. On the portal, upload the Fabric Inventory file.
10. Select the required license and select **Activate**. A license key is provided.
11. Record the license key or keys.
12. Return to GigaVUE-FM and select **Choose File to** upload the file.

Manage Volume-Based Licenses

This section provides information on how to manage active and inactive Volume-Based Licenses in GigaVUE-FM.

View active Volume-Based License

To view active Volume-Based License (VBL):

1. On the left navigation pane, click .
2. Go to **System > Licenses**.
3. From the top navigation bar, select the **VBL** from the **Activation** drop-down list and click **Active**.

This page lists the following information about the active Volume-Based Licenses.

| Field | Description |
|----------------|---|
| SKU | Unique identifier associated with the license. |
| Bundle | Bundle to which the license belongs to. |
| Volume | Total daily allowance volume. |
| Starts | License start date. |
| Ends | License end date. |
| Type | Type of license (Commercial, Trial, Lab, and other license types). |
| Activation ID | Activation ID. |
| Entitlement ID | Entitlement ID. Entitlement ID is the permission with which the acquired license can be activated online. |
| Reference ID | Reference ID. |
| Status | License status. |

NOTE: The License Type and Activation ID are displayed by default in the Active tab in the VBL page.

To display the Entitlement ID field, select the column setting configuration option to enable the Entitlement ID field.

View Inactive Volume-Based License

To view inactive Volume-Based License (VBL):

1. On the left navigation pane, click .
2. Go to **System > Licenses**.
3. From the top navigation bar, select the **VBL** from the **Activation** drop-down and click **Inactive**.

This page lists the following information about the inactive Volume-Based Licenses.

| Field | Description |
|-------------------|--|
| SKU | Unique identifier associated with the license. |
| Bundle | Bundle to which the license belongs to. |
| Ends | License end date. |
| Deactivation Date | Date the license got deactivated. |
| Revocation Code | License revocation code. |
| Status | License status. |

NOTE: The License Type, Activation ID and Entitlement ID fields are not displayed by default in the Inactive tab of VBL page. To display these fields, select the column setting configuration option and enable these fields.

Activate Volume-Based Licenses

To activate Volume-Based Licenses,

1. On the left navigation pane, select .
2. Go to **System > Licenses**.
3. From the top navigation bar, select the **VBL** from the **Activation** drop-down.
4. Select **Activate Licenses**. The **Activate License** page appears.
5. Select **IP Address** or **Hostname** to include this information. If you exclude the IP Address or Hostname, identify the chassis or GigaSMART card by its ID when activating.
6. Download the fabric inventory file that contains information about GigaVUE-FM.
7. Select **Next**. For details, refer to the What is a Fabric Inventory File section in *GigaVUE Licensing Guide*
8. Select **Gigamon License Portal**.
9. On the portal, upload the Fabric Inventory file.

10. Select the required license and select **Activate**. A license key is provided.
11. Record the license key or keys.
12. Return to GigaVUE-FM and select **Choose File to** upload the file.

NOTE: If a VBL is deactivated after a bundle upgrade, you cannot create or edit Monitoring Sessions that include applications from the deactivated VBL during the grace period. You should manually deactivate the upgraded license during the grace period to move the inactive lower bundle license back to active status.

For detailed information on dashboards and report generation for Volume-Based Licensing refer to the following table:

| For details about: | Reference section | Guide |
|--|--|------------------------------|
| How to generate Volume-Based License reports | Generate VBL Usage Reports | GigaVUE Administration Guide |
| Volume-Based License report details | Volume Based License Usage Report | GigaVUE Administration Guide |
| Fabric Health Analytics dashboards for Volume-Based Licenses usage | Dashboards for Volume Based Licenses Usage | GigaVUE-FM User Guide |

Supported Hypervisors for VMware

The table lists the supported hypervisor versions for vCenter, VMware ESXi and VMware NSX-T.

| Tested Platforms- vSphere ESXi | | | |
|--------------------------------|----------------|----------------|--|
| | vCenter Server | ESXi | GigaVUE-FM |
| v6.7 | v6.7U3 | v6.7U3 | v5.10.02, v5.11.01, v5.12.00, v5.13.00, v5.13.01 |
| v7.0 | v7.0 | v7.0 | v5.10.02, v5.11.01, v5.12.00, v5.13.00, v5.13.01, v5.14.00, v5.15.00, v5.16.00, v6.0.00, v6.1.00 |
| v7.0 | v7.0U3 | v7.0U3 | v5.15.00, v5.16.00, v6.0.00, v6.1.00, v6.2.00, v6.3.00, v6.4.00, v6.5.00, v6.6.00, v6.7.00, v6.8.00, v6.9.00, v6.10.00, v6.11.00, v6.12.00 |
| v8.0 | v7.0U3 | v8.0U2 | v6.9.00 |
| v8.0 | v8.0 | v8.0 | v6.3.00, v6.4.00, v6.5.00, v6.6.00, v6.7.00, v6.8.00, v6.9.00 |
| v8.0 | v8.0U2, v8.0U3 | v8.0U2, v8.0U3 | v6.8.00, v6.9.00, v6.10.00, v6.11.00, v6.12.00, v6.13.00 |

| Tested Platforms- vSphere NSX-T | | | |
|---------------------------------|----------------|------------------------|---|
| | vCenter Server | ESXi | GigaVUE-FM |
| v3.1.0 | v7.0 | v7.0 | v5.11.01, v5.12.00 |
| v3.1.2 | v7.0 | v6.7U3, v7.0U1 | v5.12.00, v5.13.00, v5.13.01 |
| v3.1.3 | v7.0 | v6.7U3, v7.0U1 | v5.13.01, v5.14.00, v6.0.00 |
| v3.2.0 | v7.0, v7.0U3 | v6.7U3, v7.0U1, v7.0U3 | v5.14.01, v5.15.00, v5.16.00, v6.0.00 |
| v3.2.1 | v7.0U3 | v6.7U3, v7.0U1, v7.0U3 | v6.0.00, v6.1.00, v6.2.00 |
| v3.2.2 | v7.0U3 | v7.0U3 | v6.3.00, v6.4.00 |
| v3.2.3 | v7.0U3 | v7.0U3 | v6.5.00, v6.6.00, v6.7.00, v6.8.00, v6.9.00, v6.10.00, v6.11.00, v6.12.00, v6.12.00 |
| v4.0.0 | v7.0U3 | v7.0U3 | v6.0.00, v6.1.00, v6.2.00, v6.3.00 |
| v4.1.0 | v7.0U3 | v7.0U3 | v6.3.00, v6.4.00, v6.5.00 |
| | v8.0U2 | v8.0U2 | v6.5.00, v6.6.00, v6.7.00 |
| v4.1.2 | v8.0U2, v8.0U3 | v8.0U2, v8.0U3 | v6.8.00, v6.9.00 |
| v4.2 | v8.0U2 | v8.0U2, v8.0U3 | v6.9.00, 6.10.00, v6.11.00, v6.12.00, v6.13.00 |

Points to Note (VMware NSX-T)

- **VMware NSX-T Setup:** This guide assumes that you install and configure VMware NSX-T. For configuration details, see the [VMware Documentation](#).
- **Service Insertion Support:**
 - GigaVUE-FM supports service insertion only for overlay transport zone associated with the E-W traffic.
 - GigaVUE-FM does not support Service insertion for VLAN transport zone associated with the N-S traffic or when the VMware NSX-T manager runs in federation mode.
- **Acquiring Traffic:** You can use UCT-V to acquire traffic from workload virtual machines in NSX-T federated environments.

For deployment steps, see

Prerequisites for Integrating GigaVUE V Series Nodes with NSX-T

The following are the prerequisites for integrating GigaVUE V Series Nodes with VMware NSX-T:

Host and Network Requirements

- Prepare ESXi hosts as NSX-T Data Center transport nodes using transport node profiles.
- Connect ESXi hosts running the workload VMs (to be monitored) to an overlay transport zone.
- Create a service segment in the NSX-T Manager on the overlay transport zone before deploying GigaVUE V Series Nodes through GigaVUE-FM. For instructions, refer to [Create a Service Segment in VMware NSX-T](#).
- Ensure that your deployment meets the supported versions of VMware vCenter, VMware ESXi, and VMware NSX-T. For version compatibility, refer to [Supported Hypervisors for VMware](#).
- Only IPv4 traffic is supported.
- If a guest VM running on an ESXi host is connected to a VLAN segment, and that ESXi host is not configured to an Overlay Transport zone, then the traffic destined to a service VM is disrupted. Such a configuration can also route traffic to a black hole.
- For more detailed VMware requirements on East-West traffic monitoring, refer to the below links and select the appropriate NSX-T version.
 - For versions 4.x.x: [NSX Requirements for East-West Traffic](#).

Service Insertion Support

- GigaVUE-FM supports service insertion only on overlay transport zones associated with east-west (E-W) traffic.
- GigaVUE-FM does not support service insertion on:
 - VLAN transport zones associated with north-south (N-S) traffic.
 - NSX-T Managers running in federation mode.

Software and Image Requirements

- Ensure your ESXi hosts meet the resource requirements for deploying GigaVUE V Series Nodes. For details, refer to [Prerequisites for Integrating GigaVUE V Series Nodes with NSX-T](#).
- Download the GigaVUE V Series Node OVA image file from the [Gigamon Customer Portal](#).

NOTE: If you use the **External Image** option in the monitoring domain, host the OVF and VMDK files (extracted from the OVA) on an external HTTP(S) server. For information, refer to [Create Monitoring Domain for VMware NSX-T](#).

Unsupported Configurations when using VMware NSX-T:

- Service Insertion:
 - Not supported on Global NSX-T managers in federation mode. Use Local NSX-T Managers for deploying our solution.
 - Not supported on Multi tenancy environments.
- Multiple monitoring domains: Cannot configure multiple monitoring domains with the same NSX-T manager.

Refer to the following topics:

- [Network Firewall Requirements](#)
- [Recommended Form Factor \(Instance Types\)](#)
- [Required VMware Virtual Center Privilege](#)
- [Required Roles in VMware NSX-T](#)
- [Disable Certification Validation in VMware NSX-T](#)
- [Default Login Credentials](#)

Network Firewall Requirements

Following are the Network Firewall Requirements for GigaVUE V Series Node deployment.

| Source | Destination | Source Port | Destination Port | Protocol | Service | Purpose |
|------------|-----------------------|------------------|------------------|----------|------------|---|
| GigaVUE-FM | NSX-T Manager | Any (1024-65535) | 443 | TCP | https | Allows GigaVUE-FM to communicate with vCenter and NSX-T. |
| | vCenter | | | | | |
| GigaVUE-FM | GigaVUE V Series Node | Any (1024-65535) | 8889 | TCP | Custom API | Allows GigaVUE-FM to communicate with GigaVUE V Series Node |

| | | | | | | |
|------------------------|----------------------------------|--|------|-------|-------------------------------|---|
| GigaVUE-FM | GigaVUE V Series Nodes | Any (1024-65535) | 80 | TCP | Custom TCP | Allows GigaVUE-FM to send ACME challenge requests to GigaVUE V Series Node. |
| Administrator | GigaVUE-FM | Any (1024-65535) | 443 | TCP | https | Management connection to GigaVUE-FM |
| | | | 22 | | ssh | |
| Administrator | GigaVUE V Series Nodes | Not Applicable | 22 | | ssh | Troubleshooting GigaVUE V Series Nodes. |
| GigaVUE-FM | GigaVUE V Series Node | Any (1024-65535) | 5671 | TCP | Custom TCP | Allows GigaVUE-FM to receive the traffic health updates with GigaVUE V Series Node |
| Remote Source | GigaVUE V Series Node | Custom Port (VXLAN and UDPGRE),N/A for GRE | 4789 | UDP | VXLAN | Allows to UDPGRE Tunnel to communicate and tunnel traffic to GigaVUE V Series Nodes (Applicable for Tunnel Ingress option only) |
| | | | N/A | IP 47 | GRE | |
| | | | 4754 | UDP | UDPGRE | |
| GigaVUE V Series Node | Tool/ GigaVUE HC Series instance | Custom Port (VXLAN),N/A for GRE | 4789 | UDP | VXLAN | Allows GigaVUE V Series Node to communicate and tunnel traffic to the Tool |
| | | | N/A | IP 47 | GRE | |
| GigaVUE V Series Node | Tool/ GigaVUE HC Series instance | N/A | N/A | ICMP | echo Request echo Response | Allows V Series node to health check tunnel destination traffic (Optional) |
| GigaVUE V Series Node | GigaVUE-FM | Any (1024-65535) | 5671 | TCP | Custom TCP | Allows GigaVUE V Series Nodes to communicate the traffic health updates with GigaVUE-FM |
| GigaVUE V Series Nodes | GigaVUE-FM | Any (1024-65535) | 9600 | TCP | Custom TCP | Allows GigaVUE-FM to receive certificate requests from GigaVUE V |

| | | | | | | Series Node. |
|---------------|---------------------------|------------------|---------------------------|-----|------|---|
| GigaVUE-FM | External Image Server URL | Any (1024-65535) | Custom port on web Server | TCP | http | Access to image server to image lookup and checks, and downloading the image |
| NSX-T Manager | | | | | | |
| vCenter | | | | | | |
| NSX-T Manager | GigaVUE-FM | Any (1024-65535) | 443 | TCP | http | When using GigaVUE-FM as the image server for uploading the GigaVUE V Series Image. |
| vCenter | | | | | | |

Recommended Form Factor (Instance Types)

The form factor (instance type) of the GigaVUE V Series Node is configured on the OVF file and packaged as part of the OVA image file. Instance types can differ for GigaVUE V Series Nodes in different ESXi hosts. Small is the default type.

The table below lists the available form factors (instance types) based on memory and the number of vCPUs for a single GigaVUE V Series Node.

| Type | Memory | vCPU | Disk space |
|--------|--------|--------|------------|
| Small | 4GB | 2vCPU | 8GB |
| Medium | 8GB | 4 vCPU | 8GB |
| Large | 16GB | 8 vCPU | 8GB |

Required VMware Virtual Center Privilege

This section lists the minimum privileges required for the GigaVUE-FM user in vCenter.

| Category | Required Privilege | Purpose |
|------------------------|--|---|
| vApp | <ul style="list-style-type: none"> vApp application configuration | V Series Node Deployment |
| Virtual machine | Interaction <ul style="list-style-type: none"> Power on Power Off | <ul style="list-style-type: none"> V Series Node Deployment Used to power on and power off GigaVUE V Series Node. |

Required Roles in VMware NSX-T

This section lists the minimum roles required for the GigaVUE-FM user in VMware NSX-T.

Deploying GigaVUE V Series Node using GigaVUE-FM

When deploying GigaVUE V Series Node using GigaVUE-FM, the required user roles vary depending on the NSX-T version:

For **NSX-T version 3.2.x** and **NSX-T version 4.x.x**, select the following Roles:

- NETX Partner Admin
- Security Admin

For **NSX-T version 3.1.x**, select LDAP with any one of the following Role combinations:

- NETX Partner Admin and Security Operator
- NETX Partner Admin and Network Operator

For details, refer to [Deploy GigaVUE V Series Nodes using GigaVUE-FM](#) section.

Deploying GigaVUE V Series Nodes using VMware NSX-T

When deploying GigaVUE V Series Node using VMware NSX-T manager, the minimum required role is NETX Partner Admin.

NOTE: Assign the NSX Security Admin role to enable GigaVUE-FM to orchestrate V Series deployment. If you skip this role, you must deploy the V Series manually in NSX Manager.

For details, refer to [Deploy GigaVUE V Series Nodes using VMware NSX-T Manager](#) .

Disable Certification Validation in VMware NSX-T

If you use an uncertified GigaVUE V Series Node image, the deployment may fail due to VMware NSX-T's certificate validation requirements. To avoid this issue, disable certificate validation before deploying the node.

To disable Certificate Validation,

1. Using CLI with root credentials, log in to NSX-T manager (all three NSX-T manager when it in a cluster).
2. In a text editor, open the file: **`/config/vmware/auth/ovf_validation.properties`**

3. Set a value for **THIRD_PARTY_OVFS_VALIDATION_FLAG** as **2**. The definition of the legends are as follows:
 - 0: only VMware-signed OVF's are allowed for deployment
 - 1: only VMware-signed and well-known CA-signed OVF's are allowed for deployment
 - 2: no validation
4. Save the file and exit the editor.

Default Login Credentials

Using the default credentials, you can log in to the GigaVUE V Series Node, GigaVUE V Series proxy, and UCT-V Controller.

| Product | Login credentials |
|-----------------------|--|
| GigaVUE V Series Node | <p>You can log in to the GigaVUE V Series Node by using ssh. The default username and password are:</p> <ul style="list-style-type: none"> • Username: gigamon • Password: Gigamon123! |

Install and Upgrade GigaVUE-FM

You can install GigaVUE-FM on many supported platforms. These include both cloud and on-premises environments.

GigaVUE-FM supports flexible deployment. You can easily install or upgrade it on your chosen platform.

For details, see the following:

- **Installation:** Refer to GigaVUE-FM Installation and Upgrade Guide available in the [Gigamon Documentation Library](#).
- **Upgrade:** Refer to Upgrade GigaVUE-FM topic in GigaVUE-FM Installation and Upgrade Guide.

Deployment Options for GigaVUE Cloud Suite for VMware (NSX-T)

This section describes the available methods to configure GigaVUE Cloud Suite (NSX-T) to provide visibility into both physical and virtual traffic.

Depending on how you plan to deploy the GigaVUE V Series Nodes, you can configure the suite using two methods.

Before you begin, make sure you review the [Prerequisites for Integrating GigaVUE V Series Nodes with NSX-T](#) section. For details and the work flow, refer the following topics:

- [Deployment Options for GigaVUE Cloud Suite for VMware \(NSX-T\)](#)
- [Deploy GigaVUE V Series Nodes using VMware NSX-T Manager](#)

Deploy GigaVUE V Series Nodes using GigaVUE-FM

| Step No | Task | Refer the following topics |
|---------|--|---|
| 1 | Create users in GigaVUE-FM and VMware NSX-T for communication. | Create Users in VMware vCenter, VMware NSX-T, and GigaVUE-FM |
| 2 | Upload the GigaVUE V Series Node Image (OVA File) into GigaVUE-FM (optional- use only when using GigaVUE-FM as the image server) | Upload GigaVUE V Series Node Image into GigaVUE-FM |
| 3 | Create a service segment in NSX-T | Create a Service Segment in VMware NSX-T |
| 4 | Create a Monitoring Domain | Create Monitoring Domain for VMware NSX-T |
| 5 | Deploy GigaVUE V Series Nodes using GigaVUE-FM | Configure GigaVUE V Series Nodes for VMware NSX-T Refer to <i>Deploy GigaVUE V Series Nodes using GigaVUE-FM</i> section |
| 6 | Create Monitoring session | Create a Monitoring Session (VMware NSX-T) |
| 7 | Create a Ingress and Egress Tunnels to tunnel traffic | Create Ingress and Egress Tunnel (VMware NSX-T) |
| 8 | Add Applications to the Monitoring Session | Add Applications to Monitoring Session |
| 9 | Deploy Monitoring Session | Deploy Monitoring Session |
| 10 | View Monitoring Session Statistics | View Monitoring Session Statistics |
| 11 | Create NSX-T Group and Service chain | Create Service Chain and NSX-T Group |

Deploy GigaVUE V Series Nodes using VMware NSX-T Manager

| Step No | Task | Refer the following topics |
|---------|--|---|
| 1 | Create users in GigaVUE-FM and VMware NSX-T for communication. | Create Users in VMware vCenter, VMware NSX-T, and GigaVUE-FM |
| 2 | Upload the GigaVUE V Series Node Image (OVA File) into GigaVUE-FM (optional- use only when using GigaVUE-FM as the image server) | Upload GigaVUE V Series Node Image into GigaVUE-FM |
| 3 | Create a service segment in NSX-T | Create a Service Segment in VMware NSX-T |
| 4 | Create a Monitoring Domain | Create Monitoring Domain for VMware NSX-T |
| 5 | Deploy GigaVUE V Series Nodes using GigaVUE-FM | Configure GigaVUE V Series Nodes for VMware NSX-T Refer to <i>Deploy GigaVUE V Series Nodes using VMware NSX-T Manager</i> section |
| 6 | Create Monitoring session | Create a Monitoring Session (VMware NSX-T) |
| 7 | Create a Ingress and Egress Tunnels to tunnel traffic | Create Ingress and Egress Tunnel (VMware NSX-T) |
| 8 | Add Applications to the Monitoring Session | Add Applications to Monitoring Session |
| 9 | Deploy Monitoring Session | Deploy Monitoring Session |
| 10 | View Monitoring Session Statistics | View Monitoring Session Statistics |
| 11 | Create NSX-T Group and Service chain | Create Service Chain and NSX-T Group |

Deploy GigaVUE Cloud Suite for VMware (NSX-T)

To integrate V Series nodes with NSX-T, perform the following steps:

- [Create Users in VMware vCenter, VMware NSX-T, and GigaVUE-FM](#)
- [Create a Service Segment in VMware NSX-T](#)
- [Upload GigaVUE V Series Node Image into GigaVUE-FM](#)
- [Create Monitoring Domain for VMware NSX-T](#)
- [Configure GigaVUE V Series Nodes for VMware NSX-T](#)

- [Increase or Decrease GigaVUE V Series Nodes using GigaVUE-FM](#)
- [Increase or Decrease GigaVUE V Series Nodes using VMware NSX-T Manager](#)

Create Users in VMware vCenter, VMware NSX-T, and GigaVUE-FM

For VMware NSX-T and GigaVUE-FM to communicate, you need to create a user in VMware NSX-T Manager, VMware vCenter, and GigaVUE-FM.

NOTE: GigaVUE-FM connects to NSX-T Manager that supports TLSv1.0, TLSv1.1, and TLSv1.2.

Refer to the following topics for instructions on how to create users:

- [Create User in VMware vCenter](#)
- [Create Users in VMware vCenter, VMware NSX-T, and GigaVUE-FM](#)
- [Create Users in VMware vCenter, VMware NSX-T, and GigaVUE-FM](#)

Create User in VMware vCenter

For GigaVUE-FM to communicate with vCenter, you need to create a user with the minimum required privileges in VMware vCenter.

For details, refer to [Required VMware Virtual Center Privilege](#).

Create User in NSX-T manager

For GigaVUE-FM to communicate with NSX-T, you need to create a user with the minimum required role in NSX-T manager.

To create a user in VMware NSX-T,

1. In NSX-T, navigate to **System > Settings > User Management** and select the **User Role Assignment** tab.
2. On the **User Role Assignment** tab, select **ADD**.
3. Select the Roles based on the GigaVUE V Series Node deployment type as mentioned in [Required Roles in VMware NSX-T](#)
4. Select **Save**

A GigaVUE-FM user is created in NSX-T.

Create user in GigaVUE-FM

For VMware NSX-T Manager to communicate with GigaVUE-FM, you need to create a user admin role in GigaVUE-FM.

For details, refer to *Add Users* section in *GigaVUE Administration Guide*.

Tips: You can follow these tips to easily identify the user created for VMware NSX-T.

- In the **Name** field, enter the name of the call back user. For example, you can use NSX-T Manager Callback as the user name to help you associate this user with the NSX-T Manager.
- In the **Username** field, enter a username for the user. For example, you can use nsxv to help you remember that the user is associated with NSX-T.

The username and password created for vCenter, NSX-T Manager, and GigaVUE-FM in this section is used when creating Monitoring Domain in GigaVUE-FM. For details, refer to [Create Monitoring Domain for VMware NSX-T](#).

Create a Service Segment in VMware NSX-T

Before you create a service segment, you must register your NSX-T details in GigaVUE-FM.

To create a service segment in VMware NSX-T:

1. On the NSX manager, go to **Security**.
2. From the left pane, select **Network Introspection**.
3. The **Network Introspection Settings** page opens.
4. From the top navigation bar, select **Service Segment**.
5. On the **Service Segment** page, select **ADD SERVICE SEGMENT**.
6. A new row appears to create a service segment.
7. Enter the name and map it to the overlay transport zone created for the VMs.
8. Select **Save**.

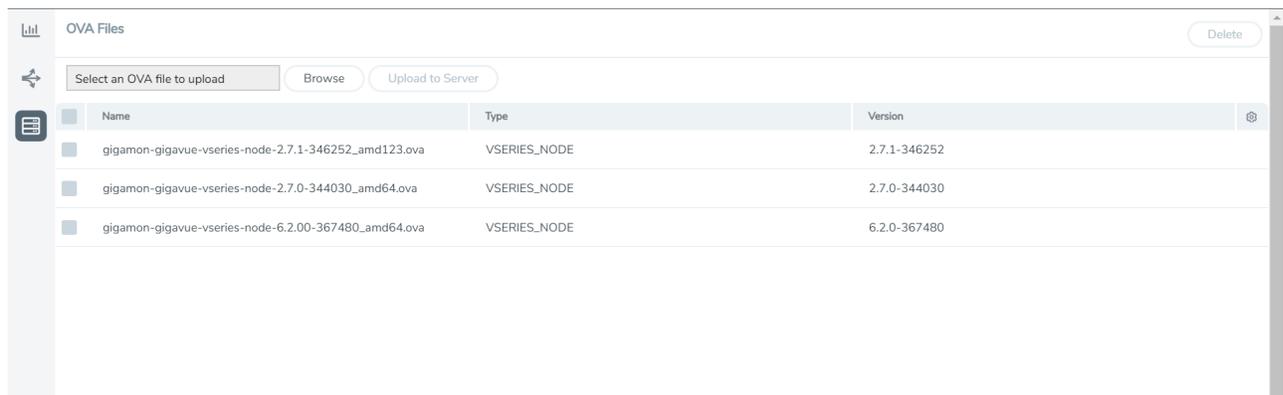
The service segment you create here is used as the service attachment when deploying GigaVUE V Series Nodes using GigaVUE-FM. For details, refer to [Deploy GigaVUE V Series Nodes using GigaVUE-FM](#)

Upload GigaVUE V Series Node Image into GigaVUE-FM

You can upload your V Series Node image to GigaVUE-FM to use it as an internal image server.. This step is optional.

To upload the V Series image into GigaVUE-FM,

1. Go to **Inventory > VIRTUAL > VMware NSX-T (V Series)**, and then click **Settings > OVA Files**.
2. The OVA Files page appears.



3. On the OVA Files page, select **Browse** to select the *gigamon-gigavue-vseries-node-x.x.x-0-xxxxxx.ova* file.
4. Select **Upload to Server**.

The selected OVA image file is uploaded to the GigaVUE-FM server.

NOTE: You can upload a maximum of three OVA files to GigaVUE-FM for VMware NSX-T.

Integrate Private CA

You can integrate your own PKI infrastructure with GigaVUE-FM. To integrate,

1. Generate a Certificate Signing Request (CSR).
2. Get a signature of the Certificate Authority (CA) on the CSR.
3. Upload it back to GigaVUE-FM.

Rules and Notes

- Always place the root CA in a separate file.
- When using multiple intermediate CAs, consider the following:
 - Include all intermediate CAs in a single file in the correct order.
 - Place the last intermediate CA in the chain at the top.
 - Place the preceding CAs in descending order.

Generate CSR

To create an intermediate CA certificate:

1. Go to  > **System > Certificates**.
2. In the top navigation bar, from the **PKI** drop-down list, select **CSR**. The **Generate Intermediate CA Certificate** page appears.
3. Enter details in the following fields:
 - **Country:** Enter the name of your country.
 - **Organization:** Enter the name of your organization.
 - **Organization Unit:** Enter the name of the department or unit.
 - **Common Name:** Enter the common name associated with the certificate.
4. From the **Algorithm** drop-down list, select the desired encryption algorithm used to encrypt your private key.
5. Select **Generate CSR**.

The CSR is downloaded successfully.

Upload CA Certificate

Get the CSR signed from your Enterprise PKI or any public PKI and upload the signed intermediate CA certificate to GigaVUE-FM.

To upload the signed CA certificate to GigaVUE-FM:

1. Go to  > **System > Certificates**.
2. In the top navigation bar, from the **PKI** drop-down list, select **CA**. The **CA Certificate** page appears.
3. From the **Actions** drop-down list, select **Upload CA**. The **Upload CA** pop-up appears.
4. Next to **Intermediate CA**, select **Choose File** to upload the signed intermediate CA certificate.
5. Next to **Root CA**, select **Choose File** to upload the corresponding root or intermediate CA.

The **CA Certificate** page displays the uploaded CA certificate.

Create Monitoring Domain for VMware NSX-T

This topic describes how to create a Monitoring Domain for deploying GigaVUE V Series Nodes in the VMware NSX-T environment through GigaVUE-FM. Creating a Monitoring Domain in GigaVUE-FM allows you to establish the mandatory connection between your VMware NSX-T environment and GigaVUE-FM.



Before you begin:

- You can create multiple Monitoring Domains using a single VMware NSX-T Manager. However, each Monitoring Domain must have unique VMware vCenters associated with it.
- If a Monitoring Domain has deployed GigaVUE V Series Nodes, the **Use External Image** and **Use FM to Launch Fabric** toggle buttons are disabled.
- If the NSX-T user password changes in VMware NSX-T manager, update in GigaVUE-FM. Otherwise, the NSX-T connection fails with an authentication error.

Prerequisites:

- If you prefer to use the **Use External Image** option, extract all the contents of the OVA file into VMDK and OVF files and place them in the directory that matches the Image URL.
- If you want to use GigaVUE-FM as your image server, save the OVA files in the dedicated directory. For details, refer to [Upload GigaVUE V Series Node Image into GigaVUE-FM](#).

To create a Monitoring Domain in GigaVUE-FM for VMware NSX-T,

1. Go to **Inventory > VIRTUAL > VMware NSX-T (V Series)**.
2. Select **Monitoring Domain**.
3. On the **Monitoring Domain** page, select **New**.

4. The **VMware Configuration** page appears.

VMware Configuration

| | |
|--------------------------------------|---|
| Monitoring Domain* | <input type="text" value="Enter a monitoring domain name"/> |
| Connection Alias* | <input type="text" value="Alias"/> |
| Virtual Center* | <input type="text" value="Virtual Center"/> |
| Username* | <input type="text" value="Username"/> |
| Password* | <input type="text" value="Password"/> |
| NSX-T Manager* | <input type="text" value="IP address or hostname"/> |
| NSX-T Username* | <input type="text" value="NSX-T Manager username"/> |
| NSX-T Password* | <input type="text" value="NSX-T Manager password"/> |
| FM Username* | <input type="text" value="FM username"/> |
| FM Password* | <input type="text" value="FM password"/> |
| Use External Image | <input type="checkbox"/> <input type="text" value="Select an image"/> |
| Use FM to Launch Fabric [®] | <input checked="" type="checkbox"/> |

5. On the **VMware Configuration** page, perform the following steps:
- In the **Monitoring Domain** field, enter the Name of the Monitoring Domain.
 - In the **Connection Alias** field, enter the Name of the connection.
 - In the **Virtual Center** field, enter the IP address or Hostname of the vCenter.
 - NOTE:** To ensure the validity of Nutanix Prism central certificates issued by a trusted Certificate Authority (CA), you must enable the Trust Store. For details, refer to Trust Store.
 - In the **Username** field, enter the Username of the vCenter user.
 - In the **Password** field, enter the vCenter password required to connect to the vCenter.
 - In the **NSX-T Manager** field, enter the IP address or Hostname of your VMware NSX-T
 - In the **NSX-T Username:** field, enter the Username of your NSX-T account.
 - In the **NSX-T Password** field, enter the Password of your NSX-T account.

- j. In the **FM Username** field, enter the Username of your GigaVUE-FM account.
- k. In the **FM Password** field, enter the Password of your GigaVUE-FM account.
- l. On the **Use External Image** toggle button, perform one of the following:

- **Yes:** Select to use an external image.

To use an external image,

- i. Enter the web server URL of the directory where VMDK and OVF files are available.
- ii. Enter the Web Server URL in the following format: *http(s)://<server-IP:port>/<path to where the OVF files are saved>*
- iii. Enter a valid number for the port. The default port number is 80.

- **No:** Select to use an internal image. To use an internal image, select the uploaded OVA files from the **Select an image** drop-down list.

- m. On the **Use FM to Launch Fabric** toggle button, select the option to deploy GigaVUE V Series Nodes using GigaVUE-FM.

NOTE: If you disable this option, then you must deploy GigaVUE V Series Nodes using VMware NSX-T manager. For more information, refer to [Deploy GigaVUE V Series Nodes using VMware NSX-T Manager](#).

6. Select **Save**.



Notes:

- All V Series Nodes within a single Monitoring Domain must run the same version. Mixing different versions in the same Monitoring Domain may lead to inconsistencies when configuring Monitoring Session traffic elements.
- Similarly, when upgrading a V Series Node, ensure that the GigaVUE-FM version is the same or higher than the V Series Node version.

The newly created Monitoring Domain appears in the list view of the **Monitoring Domain** page. The **Status** column displays the overall connection status for both VMware vCenter and VMware NSX-T Manager. Hover over the connection status to view the individual connection statuses.

When creating multiple Monitoring Domains with the same NSX-T Manager, each Monitoring Domain is associated with a unique service name. You can view the service name of each Monitoring Domain on the **Monitoring Domain** page.

Edit a Monitoring Domain

To edit a Monitoring Domain,

1. Select the Monitoring Domain.
2. Select **Actions > Edit**

The **VMware configuration** page appears.

You can perform the following actions:

- **Edit:** Select one fabric or multiple fabrics of the same Monitoring Domain. You cannot edit fabrics of different Monitoring Domains at the same time.
- **Deploy Fabric** Select a Monitoring Domain to deploy a fabric, This option is enabled only when:
 - No existing FABRIC launch configuration is present. and
 - GigaVUE-FM orchestration is enabled.

NOTE: You must create a fabric in the monitoring domain, if the option is disabled

- **Upgrade Fabric:** Select a Monitoring Domain or multiple Monitoring Domains to upgrade the fabric. You can upgrade the GigaVUE V Series Nodes using this option.
- **Delete Monitoring Domain:** Delete one or more Monitoring Domains.
- **Edit SSL Configuration:** Add Certificate Authority and the SSL Keys when using the Secure Tunnels.
- **Generate Sysdump** - You can select one or multiple GigaVUE V Series Nodes (Maximum 10) to generate the system files. The generation of sysdump takes a few minutes in a GigaVUE V Series Node. You can proceed with other tasks, and upon completion, the status appears in the GUI. These system files are helpful for troubleshooting. For more information, refer to [Debuggability and Troubleshooting](#).
- Manage Certificates: Perform the following actions:
 - **Re-issue:** Use to address security compromises, Certificate key changes, or configuration updates, like validity period adjustments.
 - **Renew:** Extends the expiration date of certificate and usually happens automatically unless you decide to do it during scheduled downtime. Auto-renewal is performed based on the duration specified in the **Certificate Settings** page. For details, refer to [Configure Certificate Settings](#).

View Dianostics and Certificates

- To view and manage the generated sysdump files, select the GigaVUE V Series Node and click the **Sysdump** tab in the lower pane.
- To view the certificates associated with the fabric, select the fabric nodes and click the **Certificates** tab in the lower pane.

What to do next:

- **Use FM to Launch Fabric** is enabled: You are navigated to the **VMware NSX-T Fabric Deployment** page. For more information, refer to [Deploy GigaVUE V Series Nodes using GigaVUE-FM](#).
- **Use FM to Launch Fabric** is disabled: You must deploy GigaVUE V Series Nodes using VMware NSX-T Manager. For more information, refer to [Deploy GigaVUE V Series Nodes using VMware NSX-T Manager](#).

Configure GigaVUE V Series Nodes for VMware NSX-T

This section provides instruction on how to deploy GigaVUE V Series Nodes.

You can deploy GigaVUE V Series Nodes in GigaVUE-FM using the following options:

- Directly use VMware NSX-T manager
- Use GigaVUE-FM

Points to Note:

- When you configure VMware NSX-T in a cluster on multiple hosts, ensure all the hosts remain connected. If any host becomes disconnected, the host-based deployment fails.
- When a GigaVUE V Series Node restarts, it does not forward existing traffic flows to other available nodes. However, it forwards new traffic flows to any available GigaVUE V Series Node.

For details, refer to the following section:

- [Deploy GigaVUE V Series Nodes using GigaVUE-FM](#)
- [Deploy GigaVUE V Series Nodes using VMware NSX-T Manager](#)

Deploy GigaVUE V Series Nodes using GigaVUE-FM

After you create a monitoring domain in GigaVUE-FM for VMware NSX-T, GigaVUE-FM establishes a connection with the VMware NSX-T manager and launches the **VMware NSX-T Fabric Deployment** page.

For details, refer to [Create Monitoring Domain for VMware NSX-T](#)

Deploy GigaVUE V Series Node from GigaVUE-FM

Launch the **VMware Fabric Launch Configuration** page and deploy.

To deploy,

1. Launch the **VMware Fabric Launch Configuration** page using one of the following options:
 - Create a Monitoring domain and you are immediately navigated to the **VMware Fabric Launch Configuration** page.
 - On the **Monitoring Domain** page, go to **Inventory > VIRTUAL > VMware NSX-T (V**

Series) and select **Actions > Deploy Fabric**.

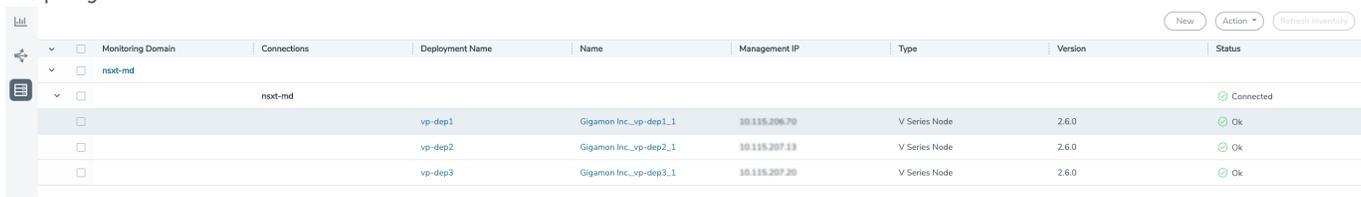
2. On the **VMware Fabric Launch Configuration** page, select or enter the following details:

| Field | Description |
|--|---|
| Deployment Name | Name of the deployment (NSX-T service deployment) |
| Datacenter | vCenter Data Center with the NSX-T hosts provisioned with V Series nodes |
| Cluster | Cluster where you want to deploy GigaVUE V Series Nodes |
| Enable Custom Certificates | <p>Enable this option to validate the custom certificate during SSL Communication. GigaVUE-FM validates the Custom certificate with the trust store. If the certificate is not available in Trust Store, communication does not happen, and a handshake error occurs.</p> <p>Note: If the certificate expires after the successful deployment of the fabric components, then the fabric components move to failed state.</p> |
| Custom SSL Certificate Note: This field appears only when Enable Custom Certificates is enabled. | Select the custom certificate from the drop-down menu. You can also upload the custom certificate for GigaVUE V Series Nodes. For details, refer to Install Custom Certificate . |
| Datastore | Network datastore shared among all NSX-T hosts in a cluster. |
| SSL Key | Reserved for future use. |
| Name Server | The server that stores the mapping between the domain names and the IP address. You can enter a maximum of three name servers. Enter the valid IPv4 address, separated by comma. |
| Management | |
| Network | Management network for GigaVUE V Series Nodes |
| IP Type | Select the management network IP type as Static or DHCP |
| IP Pool Note: This field appears only when the Management IP type is Static. | Select the IP Pool |
| MTU | The Maximum Transmission Unit (MTU) is the maximum size of each packet that you can transfer as a single entity in a network connection. Enter value between 1280 to 9000. |
| Tunnel | |
| Network | Tunnel Network for the V Series nodes |
| IP Type | Select the tunnel network IP address type as Static or DHCP |
| Gateway IP (optional) | Gateway IP address of the Tunnel Network |
| IP Pool Note: This field appears only when the Tunnel IP type is | Select the IP Pool |

| Field | Description |
|---|---|
| Static. | |
| MTU | The Maximum Transmission Unit (MTU) is the maximum size of each packet that you can transfer as a single entity in a network connection. Enter value between 1280 to 9000. |
| Use IPv6 | Enable to use IPv6. |
| User Password: (gigamon) | SSH Password for the built-in user, 'gigamon' on the V Series node |
| Confirm Password | Confirm the SSH Password of the GigaVUE V Series Node |
| Form Factor | Instance size of the GigaVUE V Series Node. (For example, Small, Medium or Large) |
| Service Attachment | Service segment created in VMware NSX-T Manager. For details, refer to Create a Service Segment in VMware NSX-T . |
| Deployment Type | Type of GigaVUE V Series Node deployment. The options available are Clustered or Host-Based deployment type. Note: Select the deployment type as Clustered if you wish to increase or decrease the number of nodes in a cluster using GigaVUE-FM. For details, refer Deploy GigaVUE V Series Nodes using GigaVUE-FM . |
| Deployment Count (for Clustered deployment type) | Number of GigaVUE V Series Nodes (Service Instances) to deploy |

3. Select **Deploy**.

After deployment, the GigaVUE V Series Node appears on the Monitoring Domain page under the **Deployment Name** on the selected Monitoring Domain. You can click on the deployment name on the Monitoring Domain page to select the corresponding service deployment.



| Monitoring Domain | Connections | Deployment Name | Name | Management IP | Type | Version | Status |
|-------------------|-------------|-----------------|------------------------|---------------|---------------|---------|-----------|
| nsxt-md | nsxt-md | vp-dep1 | Gigamon Inc._vp-dep1_1 | 10.115.206.70 | V Series Node | 2.6.0 | Connected |
| | | vp-dep2 | Gigamon Inc._vp-dep2_1 | 10.115.207.13 | V Series Node | 2.6.0 | Ok |
| | | vp-dep3 | Gigamon Inc._vp-dep3_1 | 10.115.207.20 | V Series Node | 2.6.0 | Ok |

To view the fabric launch configuration specification of a fabric component, select a GigaVUE V Series Node. A quick view of the **Fabric Launch Configuration** appears.



Points to Note:

- VMware NSX-T automatically generates the deployed GigaVUE V Series Node name. Do not change the name of the GigaVUE V Series Node in the vCenter.



- When rebooting a GigaVUE V Series Node, the existing traffic flows stops redirecting to it. However, new flows initiated after the reboot are redirected to the GigaVUE V Series Nodes.
- In a cluster-based deployment, do not use Storage vMotion to migrate a GigaVUE V Series Node to a different host or datastore. GigaVUE-FM does not automatically update the datastore information. To move a node, delete and redeploy it on the desired host and datastore.

Deploy GigaVUE V Series Nodes using VMware NSX-T Manager

You can deploy your GigaVUE V Series Nodes using VMware NSX-T Manager. The GigaVUE V Series Nodes register themselves with GigaVUE-FM using the information provided by the user in the NSX-T Manager. When the nodes are registered with GigaVUE-FM, you can configure Monitoring Session and related services in GigaVUE-FM.

Refer to the following sections for details:

- [Getting Started](#)
- [Deploying GigaVUE V Series Nodes in VMware NSX-T Manager](#)
- [Delete GigaVUE V Series Nodes and Monitoring Domain](#)

Getting Started

To register your GigaVUE V Series Nodes using VMware NSX-T Manager,

1. In GigaVUE-FM, create a Monitoring Domain.
For details, refer to [Create Monitoring Domain for VMware NSX-T](#).
2. In the **VMware Configuration** page, select **No** for the **Use FM to Launch Fabric** field.

The screenshot shows the 'VMware Configuration' page with the following fields and controls:

- Monitoring Domain*: Text input field with placeholder 'Enter a monitoring domain name'
- Connection Alias*: Text input field with placeholder 'Alias'
- Virtual Center*: Text input field with placeholder 'Virtual Center'
- Username*: Text input field with placeholder 'Username'
- Password*: Text input field with placeholder 'Password'
- NSX-T Manager*: Text input field with placeholder 'IP address or hostname'
- NSX-T Username*: Text input field with placeholder 'NSX-T Manager username'
- NSX-T Password*: Text input field with placeholder 'NSX-T Manager password'
- FM Username*: Text input field with placeholder 'FM username'
- FM Password*: Text input field with placeholder 'FM password'
- Use External Image: A toggle switch (currently off) and a dropdown menu with placeholder 'select an image'
- Use FM to Launch Fabric: A toggle switch (currently on)

NOTE: When creating the Monitoring Domain for deploying GigaVUE V Series Nodes, you can use the VMware NSX-T username and password with at least the NETX Partner Admin role assigned to it.

After creating a Monitoring Domain, use a VMware NSX-T user account to deploy the GigaVUE V Series Nodes with at least the NETX Partner Admin role assigned. When creating multiple domains with the same NSX-T Manager, GigaVUE-FM assigns a unique service name to every Monitoring Domain.

You can view these names on the Monitoring Domain page.

Deploying GigaVUE V Series Nodes in VMware NSX-T Manager

To deploy the node,

1. In **VMware NSX-T Manager**, go to the **Service Deployment** page and select **Deployment**.
2. From the **Partner Service** drop-down, select the service name corresponding to your Monitoring Domain.
For detailed information, refer to [Deploy a Partner Service](#) topic in the VMware documentation.

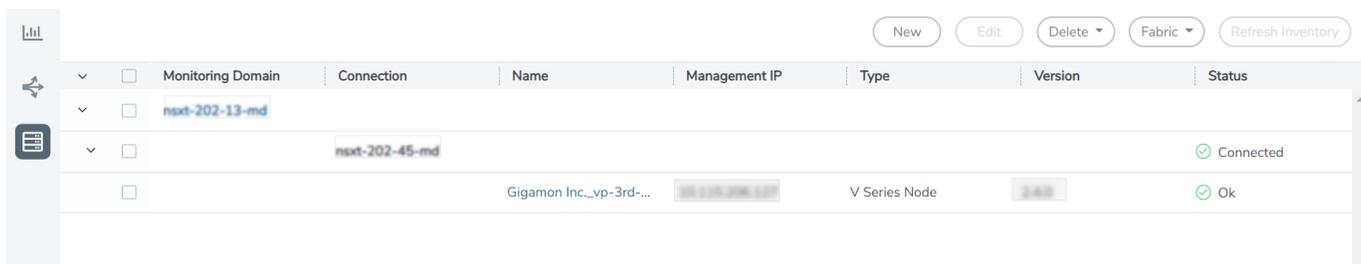
3. Select the **Deployment template** and **Deployment Specification**, and click **Configure Attributes**.
4. In the **Configure Attributes** page, enter the
 - Service VM Host Name
 - Admin user password
 - (Optional) **SSL Private Key** and the **SSL Certificate** to use a custom certificate.

For details, refer to the Secure Communication topic.

After deployment,

- NSX-T Manager displays the runtime status of node as UP.
- GigaVUE-FM updates the node status to Launching. After successful registration, the status changes to **OK**.
- The deployed node appears on the Monitoring Domain page in GigaVUE-FM.

NOTE: VMware NSX-T automatically generates the V Series Node name. Do not rename the node in vCenter.



The screenshot shows the Monitoring Domain page in GigaVUE-FM. At the top right, there are buttons for 'New', 'Edit', 'Delete', 'Fabric', and 'Refresh Inventory'. Below these is a table with columns: Monitoring Domain, Connection, Name, Management IP, Type, Version, and Status. The table contains three rows:

| Monitoring Domain | Connection | Name | Management IP | Type | Version | Status |
|-------------------|------------|-------------------------|----------------|---------------|---------|-----------|
| nsxt-202-13-md | | | | | | |
| nsxt-202-45-md | | | | | | Connected |
| | | Gigamon Inc._vp-3rd-... | 10.115.208.107 | V Series Node | 3.4.0 | Ok |

Compatibility and Limitations

- All GigaVUE V Series Nodes in a Monitoring Domain must run the same version. GigaVUE-FM does not support mixed versions.
- IPv6 is not supported for the gateway of the tunnel interface when deploying nodes through NSX-T Manager.
- Avoid renaming or manually managing the V Series Node from vCenter to prevent deployment issues.

Delete GigaVUE V Series Nodes and Monitoring Domain

NOTE: When you deploy V Series nodes using VMware NSX-T manager, GigaVUE-FM disables the **Delete** button for those nodes. You must first remove the Service Deployment in NSX-T Manager.

To delete a GigaVUE V Series Node deployed using VMware NSX-T Manager,

1. In NSX-T Manager, delete the associated **Policy and Service Chain**.
2. In GigaVUE-FM, delete the related Monitoring Session.
3. In NSX-T Manager, delete the V Series Node.
GigaVUE-FM automatically unregisters it from the Monitoring Domain.
4. In GigaVUE-FM, delete the Monitoring Domain.

Increase or Decrease GigaVUE V Series Nodes using GigaVUE-FM

You can add or remove nodes in an existing Monitoring Domain directly from GigaVUE-FM if you deployed GigaVUE V Series Nodes using GigaVUE-FM.

NOTE: Increasing or Decreasing the number of nodes in a cluster is only applicable when using Clustered deployment.

Refer to the following topics for instructions:

- [Add GigaVUE V Series Nodes to Existing Monitoring Domain](#)
- [Decrease GigaVUE V Series Nodes from Existing Monitoring Domain](#)

Add GigaVUE V Series Nodes to Existing Monitoring Domain

To increase the number of nodes in a Monitoring Domain,

1. On the Monitoring domain page, select the desired monitoring domain to add more GigaVUE V Series Nodes.
2. Select **Action>Deploy Fabric**.
3. In the **VMware Fabric Deployment** page, perform the following:
 - a. Enter the details as mentioned in [Increase or Decrease GigaVUE V Series Nodes using GigaVUE-FM](#)



- Ensure the Deployment type is set to Clustered to have multiple deployment on the same cluster.
- A cluster can have only one Host Based Deployment. However, you can deploy multiple clustered instances on the same cluster.

- b. In the **Deployment Count** field, enter the number of GigaVUE V Series Nodes you wish to add.

4. Select **Deploy**.

GigaVUE-FM adds the new nodes to the selected Monitoring Domain. The nodes appear under a new Deployment Name within the domain.

Decrease GigaVUE V Series Nodes from Existing Monitoring Domain

To decrease the number of nodes,

1. On the Monitoring domain page, perform one of the following:
 - Select the desired **Deployment** to remove
 - Select the entire Monitoring Domain to remove all the related deployments.

NOTE: To select the deployment, you can use the check-box on the left side or select the deployment name.

2. Select **Action>Delete Deployment**.

GigaVUE-FM deletes all nodes associated with the selected deployment. The node count in the Monitoring Domain decreases accordingly.

Example use-case for Increase or Decrease GigaVUE V Series Nodes using GigaVUE-FM

This feature is helpful when migrating from a GigaVUE-VM visibility solution to a GigaVUE V Series solution. Instead of undeploying and redeploying the Monitoring Domain each time you need to scale, simply add or remove GigaVUE V Series Nodes within the existing domain.

Increase or Decrease GigaVUE V Series Nodes using VMware NSX-T Manager

You can add or remove nodes in an existing Monitoring Domain directly from VMware NSX-T Manager if you deployed GigaVUE V Series Nodes using VMware NSX-T Manager.

Refer to the following topics for instructions:

- [Add V Series Nodes to Existing Monitoring Domain](#)
- [Increase or Decrease GigaVUE V Series Nodes using VMware NSX-T Manager](#)

Add V Series Nodes to Existing Monitoring Domain

To increase the number of nodes in a Monitoring Domain,

1. In the VMware NSX-T manager, go to the **Service Deployment** page and select **Deployment**.
This page lists the service deployments that are already deployed.
2. Select **Deploy Service**.
For more details on how to deploy a service, refer to [Deploy a Partner Service](#).
3. Enter the same details as given for the service mapped to the existing monitoring domain in GigaVUE-FM to which you wish to add more nodes.
4. In the **Clustered Deployment Count**, enter the number of nodes you wish to add to the existing monitoring domain.
5. Select **Save**.

When the Service deployment is successful and the nodes are deployed, you can view the nodes on the monitoring domain page of GigaVUE-FM.

Example: Consider a scenario where the monitoring domain in GigaVUE-FM has two V Series Nodes.

To increase the number of nodes in this monitoring domain, go to VMware NSX-T Manager and create a new service using the steps mentioned above. Then, the number of V Series Nodes in the monitoring domain in GigaVUE-FM goes up by the number you have mentioned in **Clustered Deployment Count** column in the VMware NSX-T.

Decrease V Series Nodes from Existing Monitoring Domain

To decrease the number of nodes in an existing monitoring domain,

1. In the VMware NSX-T manager, go to the **Service Deployment** page and select **Deployment**.
The service deployment page lists the service deployments that are already deployed.
2. Select the service deployment that you want to delete.

The GigaVUE V Series Nodes in that service deployment are deleted from the host. These GigaVUE V Series Nodes are also removed from the monitoring domain in the GigaVUE-FM.

Example: Consider a scenario where the monitoring domain in GigaVUE-FM has five V Series Nodes.

To reduce the number of nodes in this monitoring domain, go to VMware NSX-T Manager and delete a service deployment using the steps mentioned above. Then, the number of V Series Nodes in the monitoring domain in GigaVUE-FM goes down by the number you have mentioned in **Clustered Deployment Count** column of the service you have deleted.

Upgrade GigaVUE V Series Node for VMware NSX-T

You can deploy GigaVUE V Series Nodes applying one of the following two ways:

- Using VMware NSX-T manager directly.
- Using GigaVUE-FM

Choose the upgrade method based on the deployment approach. For details, refer to the relevant upgrade topic.

Important! GigaVUE-FM version 6.11 supports GigaVUE V Series Node version 6.11 and up to two previous versions (n-2). Always use the latest V Series Node version with the corresponding GigaVUE-FM version for best results.

Refer to the following sections:

- [Prerequisite](#)
- [Upgrade GigaVUE V Series Nodes Deployed using GigaVUE-FM](#)
- [Upgrade GigaVUE V Series Node Deployed using VMware NSX-T Manager](#)

Prerequisite

Before you upgrade the GigaVUE V Series Nodes, you must upgrade GigaVUE-FM to software version 5.13 or above.

Obtaining Software Images

To obtain software images:

1. Log in to the **Gigamon Community** portal.
2. Search for V Series OVA images.
3. Download the file to the local server.
4. Place it in an Internal server / External server directory.

Upgrade GigaVUE V Series Nodes Deployed using GigaVUE-FM

NOTE: Before upgrading the nodes ensure that all the current V Series nodes are of the same version.

To upgrade GigaVUE V Series Node in GigaVUE-FM,

1. In GigaVUE-FM, go to **Inventory > VIRTUAL > VMware NSX-T (V Series)**.
2. Select **Monitoring Domain**.
3. On the **Monitoring Domain** page, select the desired deployed monitoring domain and select **Actions>Upgrade Fabric**.
The **V Series Node Upgrade** dialog box appears.

V Series Node Upgrade

Current Version 2.3.1

Use External Image No

Change Form Factors

Select an image

- gigamon-gigavue-vseries-node-2.3.1-275864_amd64.ova**
- gigamon-gigavue-vseries-node-2.3.3-284615_amd64.ova

Upgrade Cancel

4. In the V Series Node Upgrade dialog box, perform the following steps:
 - a. Toggle Use External Image to:
 - i. **Yes:** Enter the external image URL. Ensure the OVA contents (OVF and VMDK files) are extracted and available at that location.
 - ii. **No:** Select an uploaded image from the drop-down list.
 - b. (Optional) Select **Change Form Factors** to adjust the instance size.
5. Select **Upgrade**.

NOTE: The new or the current V Series nodes appear on the same monitoring domain until the new nodes replace the current nodes and the status changes to **Ok**.

Monitor Upgrade Status

- You can view the status of the upgrade in the **Status** column of the **Monitoring Domain** page.
- To view the detailed upgrade status, select **Upgrade in progress** or **Upgrade successful**. The **V Series Node Upgrade Status** dialog box appears.

V Series Node Upgrade Status

Monitoring Domain: esxi-md

Summary

Success: 1 **Failed: 0** **In Progress: 0** **Total: 1**

Node Statuses

| Node | Status |
|---|--------|
| VSeries- xxxxxxxx -node1-10-210-27-202 | OK |

- Select **Clear** to delete the logs of successfully upgraded nodes.

You cannot modify the form factor or the V Series image when you are using the **Continue Fabric Upgrade** option. GigaVUE-FM uses the same values as those defined in the initial fabric upgrade configuration.

NOTE: GigaVUE-FM supports Monitoring Domain upgrades only when a single service deployment exists in the domain.

Upgrade GigaVUE V Series Node Deployed using VMware NSX-T Manager

To upgrade V Series Nodes deployed using VMware NSX-T,

1. In VMware NSX-T Manager, delete the existing V Series Node.
2. In the **Monitoring Domain** page, select **Actions > Edit**.
3. On the **VMware Configuration** page, perform one of the following:
 - Enter the new **Image URL**
 - Select a new image if **Use External Image** toggle button is disabled.
4. Re-deploy the new V Series Nodes in the VMware NSX-T manager.

Notes:

- GigaVUE-FM turns off the **Upgrade** button for nodes deployed through VMware NSX-T Manager.
- If the upgrade initially fails in NSX-T but later succeeds, GigaVUE-FM does not update the status automatically.
- To correct the status, manually delete and re-deploy the V Series Node in GigaVUE-FM.

Configure Monitoring Session

GigaVUE-FM collects inventory data on all V Series nodes deployed in your environment through vCenter connections. You can design your monitoring session to include or exclude the target VMs that you want to monitor. You can also choose to monitor egress, ingress, or all traffic.

When you add a new target VM to your environment, GigaVUE-FM automatically detects it. If the VM matches your session's criteria, GigaVUE-FM adds it to the monitoring session. Likewise, when you remove a target VM, GigaVUE-FM updates the monitoring session to reflect the change.

Before deploying a monitoring session, you need to deploy a V Series node in each host where you want to monitor the traffic.

Notes:

- Link transformation and multiple links between two entities are not supported in V Series nodes of ESXi.
- VMware ESXi running with V Series nodes does not support Pre-filtering.

Refer to the following topics for details:

- [Create a Monitoring Session \(VMware NSX-T\)](#)
- [Interface Mapping](#)
- [Create Ingress and Egress Tunnel \(VMware NSX-T\)](#)
- [Create a New Map \(VMware NSX-T\)](#)
- [Add Applications to Monitoring Session](#)
- [Deploy Monitoring Session](#)
- [View Monitoring Session Statistics](#)

Create a Monitoring Session (VMware NSX-T)

GigaVUE-FM automatically collects inventory data on all target instances in your cloud environment. You can design your Monitoring Session to:

- Include or exclude the instances that you want to monitor.
- Monitor egress, ingress, or all traffic.

Target Instance

- When a new target instance is added to your cloud environment, GigaVUE-FM automatically detects and adds it to your Monitoring Session based on your selection criteria. Similarly, when an instance is removed, it updates the Monitoring Sessions.
- For the VPCs without UCT-Vs, targets are not automatically selected. In those cases, you can use Customer Orchestrated Source in the Monitoring Session to accept a tunnel from anywhere.

You can create multiple Monitoring Sessions within one Monitoring Domain.

To create a new Monitoring Session:

1. Go to **Traffic > Virtual > Orchestrated Flows** and select your cloud platform. The **Monitoring Session** page appears.
2. Select **New Monitoring Session** to open the New Monitoring Session configuration page.
3. In the configuration page, perform the following:
 - In the **Alias** field, enter the name of the Monitoring Session.
 - From the **Monitoring Domain** drop-down list, select the desired Monitoring Domain or select **Create New** to create a Monitoring Domain. For details, refer to the Create a Monitoring Domain section in the respective cloud guides.
 - From the **Connections** drop-down list, select the required connections to include as part of the Monitoring Domain.
 - From the **VPC** drop-down list, select the required VPCs to include as part of the Monitoring Domain.
 - Enable the **Distribute Traffic** option to identify duplicate packets across different GigaVUE V Series Nodes when traffic from various targets is routed to these instances for monitoring. Distributed Deduplication is only supported on GigaVUE V Series Node version 6.5.00 and later.
4. Select **Save**.
The Monitoring Session Overview page appears.



Points to Note:



- In a Monitoring Session, if a selected VM is connected to VSS and VDS, then the GigaVUE-FM can create tapping for both VSS and VDS network.
- When you undeploy or edit a Monitoring Session and redeploy it, the existing traffic flows redirected to the GigaVUE V Series Node will stop being redirected to the GigaVUE V Series Nodes. However, new flows initiated after the redeployment will be redirected to the GigaVUE V Series Nodes.

Monitoring Session Page

The table outlines the functions of each tab in the Monitoring Session Page for managing and analyzing network traffic.

| Tab | Description |
|---------------------------|--|
| Overview | You can view the high level information of the selected Monitoring Session such as, connections, tunnel details, health status, deployment status, and information related to Application Intelligence statistics. You can also view the statistics of the incoming and outgoing traffic on an hourly, daily, weekly, and monthly basis. You can filter the statistics based on the elements associated with the Monitoring Session. For more information, refer to View Monitoring Session Statistics |
| Sources | Displays the sources and target details monitored by the Monitoring Session. You can view and edit the connection details of the Monitoring Session. You can view the deployment status, number of targets, and targets source health. In the Selection Status section, you can view the VM status. The status indicates whether the VM is supported, not supported, selected, or not selected. When you hover over the status, a tooltip displays the reason for that status. In the case of OVS Mirroring, the Sources tab also displays the Hypervisor details along with the Instances. |
| Traffic Processing | You can view, add, and configure applications, tunnel endpoints, raw endpoints, and maps. You can view the statistical data for individual applications and also apply threshold template, enable user defined applications, and enable or disable distributed De-duplication. Refer to Configure Monitoring Session Options for more detailed information. |
| V Series Nodes | You can view the V Series nodes associated with the Monitoring Session. In the split view, you can view details such as name of the V Series Node, health status, deployment status, Host VPC, version, and Management IP. You can also change the interfaces mapped to an individual GigaVUE V Series Node. Refer to Interface Mapping section for details. |
| Topology | Displays the fabric and monitored instances based on the connections configured in your network. You can select a specific connection to explore its associated subnets and instances in the topology view, offering a clear visualization of the monitored network elements. Refer to Visualize the Network Topology (VMware NSX-T) . |

NOTE: Ensure that the GigaVUE V Series Node and GigaVUE-FM are time synchronized or configure NTP time synchronization.

The Monitoring Session page **Actions** button has the following options. The Actions menu is placed common in all the tabs explained above.

| Button | Description |
|-----------------|---|
| Delete | Deletes the selected Monitoring Session. |
| Clone | Duplicates the selected Monitoring Session. |
| Deploy | Deploys the selected Monitoring Session. |
| Undeploy | Undeploys the selected Monitoring Session. |

You can use the  icon on the left side of the Monitoring Session page to view the Monitoring Sessions list. Click  to filter the Monitoring Sessions list. In the side bar, you can:

- Create a new Monitoring Session
- Rename a Monitoring Session
- Hover over, click the check box of the required Monitoring Session(s) and perform bulk actions (Delete, Deploy, or Undeploy).

Configure Monitoring Session Options

In the Monitoring Session page, you can perform the following actions in the **TRAFFIC PROCESSING** tab.

- [Apply Threshold Template](#)
- [Enable User-Defined Applications](#)
- [Enable Distributed De-duplication](#)

Access the TRAFFIC PROCESSING tab

To navigate to **TRAFFIC PROCESSING** tab, follow these steps:

1. Go to **Traffic > Virtual > Orchestrated Flows > Select your cloud platform.**
2. On the left pane with the Monitoring Sessions list view, select a Monitoring Session.
3. Select the **TRAFFIC PROCESSING** tab.

Apply Threshold Template

You can apply the Threshold configuration to a Monitoring Session before deployment.

To apply a threshold,

1. In the **TRAFFIC PROCESSING** page, select **Options > Thresholds**.
2. Select an existing threshold template from the **Select Template** drop-down list. You can create a template using **New Threshold Template** option and apply it.
3. Select **Apply**.

For more information, refer to the [Traffic Health Monitoring](#) section.

The template is added to the Monitoring Session.



Notes:

- Undeploying the Monitoring Session does not remove the applied Thresholds.
- You can also view the details related to the applied thresholds, such as traffic element, metrics, type, trigger values, and time intervals, in the threshold window.

Select **Clear Thresholds** to clear the applied thresholds across the selected Monitoring Session.

Enable User-Defined Applications

To enable a defined application,

1. In the Monitoring Session **TRAFFIC PROCESSING** page, select **Options > User Defined Applications**.
2. Enable the **User-defined Applications** toggle button.
3. From the **Actions** drop-down, add one of the existing applications or create a User-Defined Application.

For more information, refer to [User Defined Application](#).

Enable Distributed De-duplication

Enabling the Distributed De-duplication option identifies duplicate packets across different GigaVUE V Series Nodes when traffic from various targets is routed to these instances for monitoring. For more information, refer to [Distributed De-duplication](#).

To enable,

1. In the **TRAFFIC PROCESSING** page, select **Options > Distributed De-duplication**.
2. Enable the toggle.

 **Notes:**

- Supported only on V Series version 6.5.00 and later.
- From version 6.9, the Traffic Distribution option is renamed to Distributed De-duplication.

Create Ingress and Egress Tunnel (VMware NSX-T)

GigaVUE V Series Node sends traffic to tunnel endpoints in a monitoring session. You can create a tunnel endpoint using L2GRE, VXLAN, UDPGRE, TLS-PCAPNG, UDP, or ERSPAN.

 **Notes:**

- GigaVUE-FM lets you configure ingress tunnels in a Monitoring Session when you use the Traffic Acquisition Method UCT-V.
- The maximum number of links that can egress from any endpoint in V Series is four.

Create a new tunnel endpoint

To create,

1. Perform one of the following and navigate to the **TRAFFIC PROCESSING** tab:
 - Create a new monitoring session
 - Select **Actions > Edit** on an existing monitoring session.

The GigaVUE-FM Monitoring Session canvas page appears.

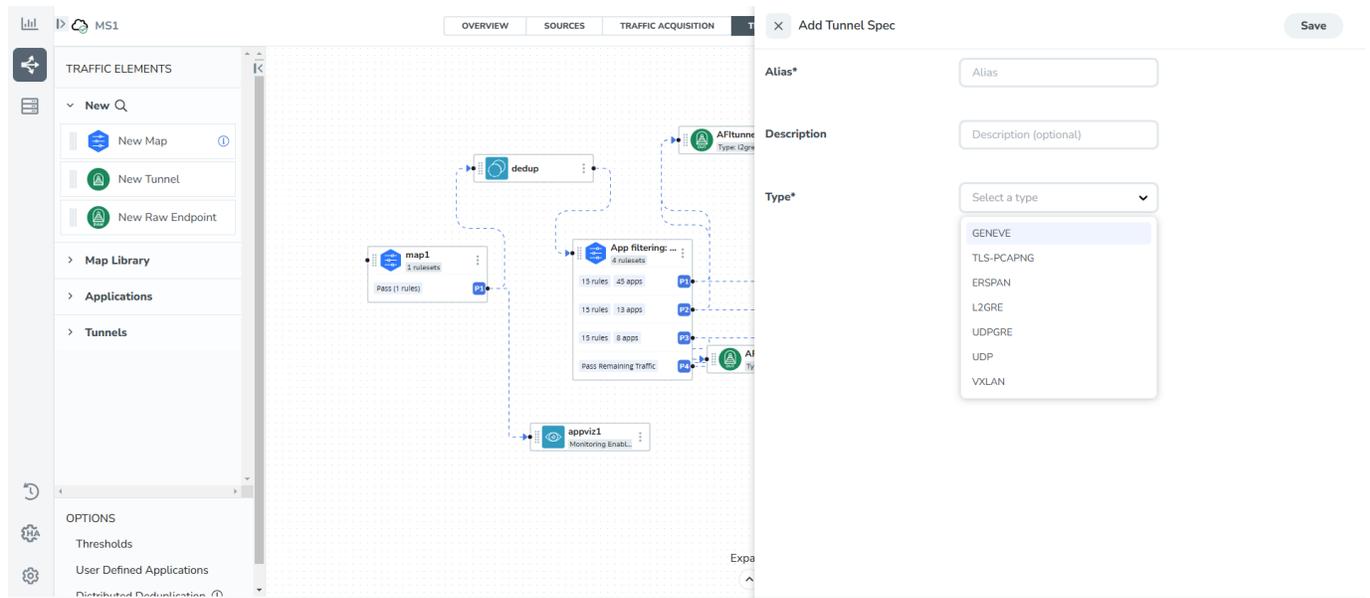
2. On the left pane of the canvas, select the  icon to view the traffic processing elements.
3. Select **New > New Tunnel**, drag and drop a new tunnel template to the workspace.

The **Add Tunnel Spec** quick view appears.

4. Enter the **Alias**, **Description**, and **Type** details.

For details, refer to [Details - Add Tunnel Specifications](#) table.

5. Select **Save**.



To delete a tunnel, select the  menu button of the required tunnel and select **Delete**.

Apply a threshold template to Tunnel End Points

1. Select the  menu button of the required tunnel endpoint on the canvas and click **Details**.
2. In the quick view, go to the **Threshold** tab.

For details on creating or applying a threshold template, refer to the Monitor Cloud Health topic in the respective Cloud guides.

You can use the configured Tunnel End Points to send or receive traffic from GigaVUE HC Series and GigaVUE TA Series. Provide the IP address of the GigaVUE HC Series and GigaVUE TA Series as the Source or the Destination IP address as required when configuring Tunnel End Points.

After configuring the tunnels and deploying the Monitoring Session, you can view the number of ingress and egress tunnels configured for a Monitoring Session. Select the numbers of tunnels displayed in the **OVERVIEW** tab to view the tunnel names and their respective **ADMIN STATUS** and **HEALTH STATUS**.

Table 1: Details - Add Tunnel Specifications

| Field | Description | |
|--|---|--|
| Alias | The name of the tunnel endpoint. | |
| Description | The description of the tunnel endpoint. | |
| Admin State Note: This option appears only after the Monitoring session deployment. | Use this option to send or stop the traffic from GigaVUE-FM to the egress tunnel endpoint. Admin State is enabled by default. You can use this option to stop sending traffic to unreachable or down tools. Each egress tunnel configured on the GigaVUE V SeriesNode has an administrative state that enables GigaVUE-FM to halt the tunnel's traffic flow. GigaVUE-FM only disable the tunnels when it receives a notification via REST API indicating that a tool or group of tools is down. Note: This option is not supported for TLS-PCAPNG tunnels. | |
| Type | The type of the tunnel. Select from the options below to create a tunnel. ERSPAN, L2GRE, VXLAN, TLS-PCAPNG, UDP, or UDPGRE. | |
| VXLAN | | |
| Traffic Direction | | |
| The direction of the traffic flowing through the GigaVUE V Series Node. Note: In the scenario where secure tunnels need to be established between a GigaVUE V Series Node and a GigaVUE HC Series, you can utilize the Configure Physical Tunnel option provided in the GigaVUE V Series Secure Tunnel page. This allows you to configure secure tunnels on your physical device conveniently. For details, refer to Secure Tunnels . | | |
| In | Choose In (Decapsulation) for creating an ingress tunnel to carry traffic from the source to the GigaVUE V Series Node. | |
| | IP Version | The version of the Internet Protocol. Select IPv4 or IPv6. |
| | Remote Tunnel IP | For ingress tunnel, the Remote Tunnel IP is the IP address of the tunnel source. |
| | VXLAN Network Identifier | Unique value that is used to identify the VXLAN. The value ranges from 1 to 16777215. |
| | Source L4 Port | The port used to establish the connection to the target. For example, if A is the source and B is the destination, this port value belongs to A. |
| | Destination L4 Port | The port used to establish the connection will be established from the source. For example, if A is the source and B is the destination, this port value belongs to B. |
| Out | Choose Out (Encapsulation) for creating an egress tunnel from the GigaVUE V Series Node to the destination endpoint. | |
| | Remote Tunnel IP | For egress tunnel, the Remote Tunnel IP is the IP address of the tunnel destination endpoint. |
| | MTU | The Maximum Transmission Unit (MTU) is the maximum size of |

| Field | Description | |
|-------|---------------------------------|---|
| | | each packet that the tunnel endpoint can carry. The default value is 1500. |
| | Time to Live | Enter the value of the time interval for which the session needs to be available. The value ranges from 1 to 255. The default value is 64. |
| | DSCP | Differentiated Services Code Point (DSCP) is a value that network devices use to identify traffic to be handled with higher or lower priority. The values ranges from 0 to 63 with 0 being the highest priority and 63 being the lowest priority. |
| | Flow Label | Unique value, which is used to identify packets that belong to the same flow. A flow is a sequence of packets that need to be treated as a single entity that may require special handling. The accepted value is between 0 and 1048575. |
| | VXLAN Network Identifier | Unique value which is used to identify the VXLAN. The value ranges from 1 to 16777215. |
| | Multi Tunnel | <p>Enable the multi-tunnel flag to create multiple tunnels for flow distribution to the 5G-Cloud application. Refer to 5G-Cloud Ericson SCP Support.</p> <p>Applicable Platforms: OpenStack, Third Party Orchestration, VMware ESXi</p> <div data-bbox="683 995 1469 1770" style="border: 1px solid #ccc; padding: 10px; background-color: #f0f8ff;"> <p> Notes:</p> <ul style="list-style-type: none"> ▪ You can configure either a single-tep or multi-tep setup for the egress tunnel. Switching between these configurations is not allowed; to make changes, you must undeploy and redeploy the Monitoring Session. ▪ When you enable Multi-Tunnel on a VXLAN tunnel and set the number of tunnels, GigaVUE-FM automatically creates the additional VXLAN tunnel endpoints. Any later changes to the original VXLAN tunnel, such as disabling Multi-Tunnel or modifying Domain Tagging do not update these auto created endpoints. They continue to retain the configuration that existed at the time they were created. <p>To apply updated settings, you must delete the VXLAN TEP and the associated LB application, then recreate the LB and VXLAN TEP with the new configuration, and re-</p> </div> |

| Field | Description | |
|--|--|--|
| | |  establish the link between them. |
| | Source L4 Port | The port from which the connection is established to the target. For example, if A is the source and B is the destination, this port value belongs to A. |
| | Destination L4 Port | The port to which the connection is established from the source. For example, if A is the source and B is the destination, this port value belongs to B. |
| | Domain Tagging | Enable this option to tag packets on the egress tunnel with the Ericsson domain-specific VLAN IDs derived from the PCAPng Domain VLAN Mapping. NOTE: This setting is available only when Domain Classification is enabled in the associated PCAPng application. Refer to PCAPng Application for details. |
| UDPGRE | | |
| Traffic Direction | | |
| The direction of the traffic flowing through the GigaVUE V Series Node. | | |
| In | Choose In (Decapsulation) for creating an ingress tunnel to carry traffic from the source to the GigaVUE V Series Node. | |
| | IP Version | The version of the Internet Protocol. Select IPv4 or IPv6. |
| | Remote Tunnel IP | For ingress tunnel, the Remote Tunnel IP is the IP address of the tunnel source. |
| | Key | Identifier used to differentiate different UPDGRE/L2GRE tunnels. It routes the encapsulated frames to the appropriate tunnel on the remote endpoint. Enter a value between 0 and 4294967295. |
| | Source L4 Port | The port from which the connection is established to the target. For example, if A is the source and B is the destination, this port value belongs to A. |
| | Destination L4 Port | The port to which the connection is established from the source. For example, if A is the source and B is the destination, this port value belongs to B. |
| L2GRE | | |
| Traffic Direction | | |
| The direction of the traffic flowing through the GigaVUE V Series Node. | | |
| Note: In the scenario where secure tunnels need to be established between a GigaVUE V Series and a GigaVUE HC Series, you can utilize the Configure Physical Tunnel option provided in the GigaVUE V Series Secure Tunnel page. This allows you to conveniently configure secure tunnels on your physical device. For details, | | |

| Field | Description | |
|---|--|--|
| refer to the Secure Tunnels . | | |
| In | Choose In (decapsulation) to create an ingress tunnel, which will carry traffic from the source to the GigaVUE V Series Node. | |
| | IP Version | The version of the Internet Protocol. Select IPv4 or IPv6. |
| | Remote Tunnel IP | For ingress tunnel, the Remote Tunnel IP is the IP address of the tunnel source. |
| | Key | Identifier used to differentiate different UPDGRE/L2GRE tunnels. It is used to route the encapsulated frames to the appropriate tunnel on the remote endpoint. Enter a value between 0 and 4294967295. |
| Out | Choose Out (Encapsulation) for creating an egress tunnel from the V Series Node to the destination endpoint. | |
| | Remote Tunnel IP | For egress tunnel, the Remote Tunnel IP is the IP address of the tunnel destination endpoint. |
| | MTU | The Maximum Transmission Unit (MTU) is the maximum size of each packet that the tunnel endpoint can carry. The default value is 1500. |
| | Time to Live | Enter the value of the time interval for which the session needs to be available. The value ranges from 1 to 255. The default value is 64. |
| | DSCP | Differentiated Services Code Point (DSCP) is a value that network devices use to identify traffic to be handled with higher or lower priority. The values ranges from 0 to 63 with 0 being the highest priority and 63 being the lowest priority. |
| | Flow Label | Unique value, which is used to identify packets that belong to the same flow. A flow is a sequence of packets that need to be treated as a single entity that may require special handling. The accepted value is between 0 and 1048575. |
| | Key | Identifier used to differentiate different UPDGRE/L2GRE tunnels. It is used to route the encapsulated frames to the appropriate tunnel on the remote endpoint. Enter a value between 0 and 4294967295. |
| | Domain Tagging | Enable this option to tag packets on the egress tunnel with the Ericsson domain-specific VLAN IDs derived from the PCAPng Domain VLAN Mapping. NOTE: This setting is available only when Domain Classification is enabled in the associated PCAPng application. Refer to PCAPng Application for details. |

| Field | Description | |
|--|-------------------------|--|
| ERSPAN | | |
| Traffic Direction | | |
| The direction of the traffic flowing through the GigaVUE V Series Node. | | |
| In | IP Version | The version of the Internet Protocol. Select IPv4 or IPv6. |
| | Remote Tunnel IP | For ingress tunnel, the Remote Tunnel IP is the IP address of the tunnel source. |
| | Flow ID | The ERSPAN flow ID is a numerical identifier that distinguishes different ERSPAN sessions or flows. The value ranges from 1 to 1023. |
| TLS-PCAPNG | | |
| Traffic Direction | | |
| The direction of the traffic flowing through the GigaVUE V Series Node. | | |
| <p>Note: In the scenario where secure tunnels need to be established between a GigaVUE V Series and a GigaVUE HC Series, you can utilize the Configure Physical Tunnel option provided in the GigaVUE V Series Secure Tunnel page. This allows you to conveniently configure secure tunnels on your physical device. For details, refer to Secure Tunnels section.</p> | | |

| Field | Description | |
|-----------|----------------------------------|--|
| In | IP Version | The version of the Internet Protocol. Only IPv4 is supported. |
| | Remote Tunnel IP | For ingress tunnel, the Remote Tunnel IP is the IP address of the tunnel source. |
| | MTU | The Maximum Transmission Unit (MTU) is the maximum size of each packet that the tunnel endpoint can carry. The default value is 1500. |
| | Source L4 Port | The port from which the connection is established to the target. For example, if A is the source and B is the destination, this port value belongs to A. |
| | Destination L4 Port | The port to which the connection is established from the source. For example, if A is the source and B is the destination, this port value belongs to B. |
| | Key Alias | Select the Key Alias from the drop-down. |
| | Cipher | Only SHA 256 is supported. |
| | TLS Version | Only TLS Version 1.3. |
| | Selective Acknowledgments | Enable to receive the acknowledgments. |
| | Sync Retries | Enter the number of times the sync has to be tried. The value ranges from 1 to 6. |
| | Delay Acknowledgments | Enable to receive the acknowledgments for a delay. |

| Field | Description | |
|-------------|----------------------------------|---|
| Out | IP Version | The version of the Internet Protocol. Only IPv4 is supported. |
| | Remote Tunnel IP | For ingress tunnel, the Remote Tunnel IP is the IP address of the tunnel source. |
| | MTU | The Maximum Transmission Unit (MTU) is the maximum size of each packet that the tunnel endpoint can carry. The default value is 1500. |
| | Time to Live | Enter the value of the time interval for which the session needs to be available. The value ranges from 1 to 255. The default value is 64. |
| | DSCP | Differentiated Services Code Point (DSCP) is a value that helps network devices identify the higher or lower priority to handle traffic. The values ranges from 0 to 63 with 0 being the highest priority and 63 being the lowest priority. |
| | Flow Label | Unique value which is used to identify packets that belong to the same flow. A flow is a sequence of packets that need to be treated as a single entity that may require special handling. The accepted value is between 0 and 1048575. |
| | Source L4 Port | The port from which the connection is established to the target. For example, if A is the source and B is the destination, this port value belongs to A. |
| | Destination L4 Port | The port to which the connection is established from the source. For example, if A is the source and B is the destination, this port value belongs to B. |
| | Cipher | Only SHA 256 is supported. |
| | TLS Version | Only TLS Version 1.3. |
| | Selective Acknowledgments | Enable the receipt of acknowledgments. |
| | Sync Retries | Enter the number of times you can try the sync. The value ranges from 1 to 6. |
| | Delay Acknowledgments | Enable the receipt of acknowledgments when there is a delay. |
| UDP: | | |

| Field | Description | |
|-------|----------------------------------|---|
| Out | L4 Destination IP Address | Enter the IP address of the tool port or when using Application Metadata Exporter (AMX), enter the IP address of the AMX application. For details, refer to Application Metadata Exporter . |
| | Source L4 Port | The port from which the connection is established to the target. For example, if A is the source and B is the destination, this port value belongs to A. |
| | Destination L4 Port | The port to which the connection is established from the source. For example, if A is the source and B is the destination, this port value belongs to B. |

Tunnel End Points created will be listed in the **Tunnel Specifications** page. You can create, edit, and delete tunnel end point from this page. Refer to [Create Tunnel Specifications](#) for more detailed information on how to create tunnel end points.

Create Raw Endpoint (VMware NSX-T)

This topic explains how to configure a RAW Endpoint (REP) in the Monitoring Session using VMware NSX-T.

Refer to the below sections for more detailed information:

- [Rules and Notes](#)
- [Create Raw Endpoint \(VMware NSX-T\)](#)
- [Configure Raw Endpoint in Monitoring Session](#)
- [Configuration Support for Non IP-Addressable \(I2 supported\) Tools](#)

Rules and Notes

- You must use VSS port groups. REPs are not supported on NSX Segments.
- GigaVUE-FM requires a valid IP address on the interface used for the RAW Endpoint.
- For interface roles and details, refer to the GigaVUE V Series Node interface configuration table in the Monitoring Domain documentation.
- The maximum number of links that can egress from any endpoint in V Series is four.

Points to Note:

Refer to the following table for more detailed information on the number of interfaces and their roles in the GigaVUE V Series Nodes deployed in the Monitoring Domain.

| Display Name | Interface Name | Role | Comments |
|-------------------|----------------|------------|--|
| Network Adapter 1 | ens160 | Management | - |
| Network Adapter 2 | ens192 | Tunnel | Supports Tunnel and Egress RAW endpoint. |
| Network Adapter 3 | ens224 | Data | Reserved and used by NSX-T for Service Insertion (Traffic Acquisition) |

Configure Raw Endpoint in Monitoring Session

A Raw Endpoint (REP) passes traffic from a GigaVUE V Series Node interface. You can use it to ingest traffic from physical sources and optionally forward it to monitoring tools.

To add Raw Endpoint to the Monitoring Session:

1. Go to the graphical workspace.
2. From the **New** menu, drag **New Raw Endpoint** into the workspace.
3. Select the menu icon on the new endpoint and choose **Details**.
4. In the **Raw** quick view, enter an Alias and Description, then select **Save**.
5. To deploy the Monitoring Session after adding the Raw Endpoint:
 - a. On the **Traffic Processing** page, go to the **Actions** menu and select **Deploy**.
 - b. In the **Deploy Monitoring Session** dialog, select the appropriate V Series Nodes.
 - c. For each node, map the correct interface (REP and TEP) using the drop-down menus.
 - d. Select **Deploy**.
6. Select **Export** to download all or selected V Series Nodes in CSV and XLSX formats.

Configuration Support for Non IP-Addressable (I2 supported) Tools

You can configure to deliver RAW traffic to Layer 2 tools or sensors that do not support IP addressing.

To configure,

1. Create a Virtual Standard Switch (VSS).
No uplink or physical NIC is required.
2. Create two port groups on the VSS:
 - EgressPortgroup: For the GigaVUE V Series Node to send RAW traffic.
 - IngressPortgroup: Enable promiscuous mode to mirror traffic to the sensor/tool.

NOTE: For details on creating a VSS and port groups, refer to [Port Group Configuration for Virtual Machines](#) section in the VMware Documentation.

3. Connect the tool or sensor interface to IngressPortgroup.



NOTE:

- Deploy the tool or sensor on the same ESXi host as the GigaVUE V Series Node.
- Use Host-Based Deployment for the GigaVUE V Series Node. For details, refer to [Deploy GigaVUE V Series Nodes using GigaVUE-FM](#)

4. Select EgressPortgroup as the tunnel interface (Network Adapter 2 or ens192) when deploying the node.
5. In the Monitoring Session, select ens192 as the RAW interface during interface mapping as in the [Create Raw Endpoint \(VMware NSX-T\)](#).

NOTE: Promiscuous mode allows Port Group to mirror the entire switch traffic.

Create a New Map (VMware NSX-T)

For new users, the free trial bundle expires after 30 days. GigaVUE-FM prompts you to buy a new license. For licensing information, refer to GigaVUE Licensing Guide.

A map is used to filter the traffic flowing through the GigaVUE V Series Nodes. It is a collection of one or more rules (R). The traffic passing through a map can match one or more rules defined in the map.

Parameters to create a map

| Parameter | Description |
|-----------------|--|
| Rules | A rule (R) contains specific filtering criteria that the packets must match. The filtering criteria lets you determine the targets and the (egress or ingress) direction of tapping the network traffic. |
| Priority | Priority determines the order in which the rules are executed. The priority value can range from 1 to 5, with 1 being the highest and 5 is the lowest priority. |

| | |
|----------------------------|--|
| Pass | The traffic from the virtual machine is passed to the destination. |
| Drop | The traffic from the virtual machine is dropped when passing through the map. |
| Traffic Filter Maps | A set of maps to match traffic and perform various actions on the matched traffic. |
| Inclusion Map | An inclusion map determines the instances to include for monitoring. This map is used only for target selection. |

| | |
|---|--|
| Exclusion Map | An exclusion map determines the instances to exclude from monitoring. This map is used only for target selection. |
| Automatic Target Selection (ATS) | <p>A built-in feature that automatically selects the cloud instances based on the rules defined in the traffic filter maps, inclusion maps, and exclusion maps in the Monitoring Session.</p> <p>The below formula describes how ATS works:</p> <p>Selected Targets = Traffic Filter Maps \cap Inclusion Maps - Exclusion Maps</p> <p>Below are the filter rule types that work in ATS:</p> <ul style="list-style-type: none"> • mac Source • mac Destination • ipv4 Source • ipv4 Destination • ipv6 Source • ipv6 Destination • VM Name Destination • VM Name Source • VM Tag Destination - Not applicable to Nutanix. • VM Tag Source - Not applicable to Nutanix. • VM Category Source - Applicable only to Nutanix. • VM Category Destination - Applicable only to Nutanix. • Host Name -Applicable only to Nutanix and VMware. <p>The traffic direction is as follows:</p> <ul style="list-style-type: none"> • For any rule type as Source - the traffic direction is egress. • For Destination rule type - the traffic direction is ingress. • For Hostname - As it doesn't have Source or Destination rule type, the traffic direction is Ingress and Egress. <p>Note:</p> <ul style="list-style-type: none"> • For OpenStack environment, Subnet Name Source and Subnet Name Destination are the exclusion filters available as part of Exclusion Maps with Traffic Acquisition method as OVS Mirroring in the Monitoring Domain. • If no ATS rule filters listed above are used, all VMs and vNICs are selected as targets. When any ATS rule results in a null set, no target is selected and V Series Node does not receive traffic from any VM or vNIC. • When using VM Name filter for selecting the Virtual Machines using Inclusion and Exclusion Maps, wild- cards in VM names are not supported. You must use the prefix of the Virtual Machine name. |
| Group | A group is a collection of pre-defined maps saved in the map library for reuse. |

Rules and Notes:

- Directional rules do not work on single NIC VMs that are running a Windows UCT-V.
- Loopback captures bidirectional traffic from both ingress and egress. To prevent duplicate tapping, only egress tapping is permitted.
- If you are running GigaVUE Cloud Suite on OpenStack, you can add a subnet to the exclusion map. To do this, create an exclusion map and select the Subnet name in the ruleset.
- If a packet is fragmented then all the fragments are destined to the same application end point. You can find the stats of mapped fragmented traffic in GigaVUE-FM. For details, refer to "Review Map Statistics with Map Rule Counters" section in *GigaVUE Fabric Management Guide*.

To create a new map,

1. Drag and drop **New Map** from the **New** expand menu to the graphical workspace. The **Map** quick view appears.
2. On the new Map quick view, select the **General** tab and enter the following information:
 - a. Enter the **Name** and **Description** of the new map.
 - b. Enable the **Application Filtering** option if you wish to use Application Filtering Intelligence. Enabling this option allows you to filter traffic based on Application name or family. Refer to [Application Filtering Intelligence](#).

NOTE: Pass and Drop rule selection with Automatic Target Selection (ATS) differ with the Map type as follows: Traffic Map—Only Pass rules for ATS
Inclusion Map—Only Pass rules for ATS
Exclusion Map—Only Drop rules for ATS

3. Select the **Rule Sets** tab.
 - a. Perform the following to create a new rule set:
 - i. Select **Actions > New Ruleset**.
 - ii. Enter a **Priority** value from 1 to 5 for the rule with 1 being the highest and 5 is the lowest priority.
 - iii. In the **Application EndPoint ID** field, enter the Application Endpoint.
 - iv. Select a required condition from the drop-down list.
 - v. Select the rule to **Pass** or **Drop** through the map.
 - b. Perform the following to create a new rule:
 - i. Select **Actions > New Rule**.
 - ii. Select a required condition from the drop-down list.
 - iii. Click  and select **Add Condition** to add more conditions.
 - iv. Select the rule to **Pass** or **Drop** through the map.
4. Select **Save**.

Through the map, packets is dropped or passed based on the highest to lowest rule priority. You can add 5 rule sets on a map. Use the + and - buttons to add or remove a rule set in the map. Each rule set can have only 25 rules per map and each rule can have a maximum of 4 conditions.

You must select at least one rule condition to add ATS rules for an Inclusion/Exclusion map. For details, refer to [Create a New Map \(VMware NSX-T\)](#).

You can also perform the following action in the Monitoring session canvas.

- To edit a map, click the  menu button of the required map on the canvas and select **Details**, or select **Delete** to delete the map.
- To apply threshold template to maps, select the required map on the canvas and select **Details**. The quick view appears. Select the Thresholds tab. For more details on how to create or apply threshold templates, refer to [Monitor Cloud Health](#).
- Hover over the rules and apps buttons on the map to view the rule and applications configured for the selected map. Select the rules and apps buttons to open the quick view menu for RULESETS.

Example- Create a New Map using Inclusion and Exclusion Maps

Consider a Monitoring Session with 5 cloud instances. Namely target-1-1, target-1-2, target-1-3, target-2-1, target-2-2.

1. Drag and drop a new map template to the workspace.
The New map quick view appears.
2. In the **GENERAL** tab, enter the name as Map 1 and enter the description.
3. In the **RULESETS** tab, enter the priority and Application Endpoint ID.
4. Select the condition as VM Name and enter the **target**.
This includes the instances target-1-1, target-1-2, target-1-3, target-2-1, and target-2-2.
5. At the bottom of the Monitoring session canvas, select the Expand icon.
The Inclusion Maps and Exclusion Maps section appears.
6. Drag and drop a new map template to the Inclusion Maps region.
The New Map quick view appears.
7. Enter following for the map.
 - a. In the **GENERAL** tab, enter the name as Inclusionmap1 and enter the description.
 - b. In the **RULESETS**, enter the priority and Application Endpoint ID.
 - c. Select the condition as VM Name and enter the VM Name as **target-1**.
Then the instance with VM names **target-1-1**, **target-1-2**, and **target-1-3** is included.
8. Drag and drop a new map template to the Exclusion Maps region.
The New Map quick view appears.

9. Enter the details as mentioned in the above section.
 - a. In the **GENERAL** tab, enter the name as Exclusionmap1 and enter the description. In the **RULESETS** tab, enter the priority and Application Endpoint ID.
 - b. Select the condition as VM Name and enter the VM Name as **target-1-3**. Then, the instance **target-1-3** is excluded.

Based on this configuration, the Automatic Target Selection selects the instances target-1-1 and target-1-2 as target.

Map Library

Map Library is available in the **TRAFFIC PROCESSING** canvas page. You can add and use the maps from the Monitoring Session.

To add a map,

1. From the **Monitoring Session** screen, select **TRAFFIC PROCESSING**.

The GigaVUE-FMCanvas page appears.

2. From the page, select the desired map and save it as a template.
3. Select **Details**.

The Application quick view appears.

4. Select **Add to Library** and perform one of the following:

- From the **Select Group** list, select an existing group.
- Select **New Group** to create a new one.

5. In the **Description** field, add details, and select **Save**.

The map is added to Map Library. You can use the added map for all the monitoring sessions.

Reusing a map

From the **Map Library**, drag and drop the saved map.

Add Applications to Monitoring Session

GigaVUE Cloud Suite with GigaVUE V Series Node supports the following GigaSMART applications in the GigaVUE-FM canvas:

- Application Visualization
- Application Filtering Intelligence
- Application Metadata Intelligence
- Slicing
- Masking
- De-duplication
- Load Balancing
- PCAPng Application
- GENEVE Decap
- Header Stripping
- Application Metadata Exporter
- SSL Decrypt
- GigaSMART NetFlow Generation
- 5G-Service Based Interface Application
- 5G-Cloud Application

For more detailed information on how to configure these application, refer to *GigaVUE V Series Applications Guide*.

Interface Mapping

You can remap interfaces for individual GigaVUE V Series Nodes within a Monitoring Session.

Note: When using Raw and Tunnel In, Interface Mapping is mandatory before you deploy the Monitoring Session.

To perform interface mapping,

1. Go to **Traffic > Virtual > Orchestrated Flows** and select your cloud platform.

The **Monitoring Sessions** landing page appears.

2. Navigate to the **V SERIES NODES** tab and select **Interface Mapping**.

The **Deploy Monitoring Session** dialog box appears.

3. Select the GigaVUE V Series Nodes to which you wish to map the interface.
4. From the drop-down menu of the GigaVUE V Series Nodes, select the interfaces for the following deployed in the Monitoring Session:
 - REPs (Raw Endpoints)

- TEPs (Tunnel Endpoints)

5. Select **Deploy**.

NOTE: The updated mappings take effect when deployed.

Deploy Monitoring Session

You can deploy the Monitoring Session on all the nodes and view the report.

To deploy the Monitoring Session,

1. **Add components to the canvas**

Drag and drop the following items to the canvas as required:

- **Ingress tunnel** (as a source): From the **New** section.
- **Maps:** From the **Map Library** section.
- **Inclusion and Exclusion maps:** From the Map Library to their respective section at the bottom of the workspace.
- GigaSMART **apps:** From the **Applications** section.
- **Egress tunnels:** From the **Tunnels** section.

2. **Connect components**

Perform the following steps after placing the required items in the canvas.

- a. Hover your mouse on the map
- b. Select the dotted lines
- c. Drag the arrow over to another item (map, application, or tunnel).

You can drag multiple arrows from a single map and connect them to different maps.

3. **(Optional) Review Sources**

Select the SOURCES tab to view details about the subnets and monitored instances.

The monitored instances and the subnets are visible in orange.

Not applicable for NSX-T solution and Customer Orchestrated Source as Traffic Acquisition Method.

4. **Deploy the Monitoring Session**

From the **Actions** menu, select **Deploy**.

After successful deployment on all the V Series Nodes, the status appears as **Success** on the **Monitoring Sessions** page.

View the Deployment Report

You can view the Monitoring Session Deployment Report in the **SOURCES** and **V SERIES NODES** tab.

- When you select the **Status** link, the Deployment Report is displayed.
- When the deployment is incorrect, the Status column displays one of the following errors:
 - **Success:** Not deployed on one or more instances due to V Series Node failure.
 - **Failure:** Not deployed on all V Series Nodes or Instances.

The **Monitoring Session Deployment Report** displays the errors that appeared during deployment.

The Monitoring Session Deployment includes two key configuration:

- [Interface Mapping](#)
- [Tool Exclusion](#)

Interface Mapping

It allows to associate specific network interfaces (from monitored instances) with monitoring tools. This ensures that traffic from selected sources is accurately mirrored and routed for analysis. You can:

- Select interfaces from available instances.
- Map each interface to one or more monitoring tools.
- Apply filters or conditions to refine traffic selection.

Tool Exclusion

It excludes specific monitoring tools from receiving mirrored traffic during a monitoring session. This option is available only when the Traffic Acquisition method is set to **VPC Traffic Mirroring**.

Deploy Monitoring Session

INTERFACE MAPPING **TOOL EXCLUSION**

Tool instances should be excluded to avoid traffic looping. Review the instances with the same IP address below and select the tool instance to exclude.

| IP ADDRESS | TOOL EXCLUSION | VM NAME | ID |
|--------------|----------------|--|---------------------|
| 10.10.10.100 | Excluded | VM100 | i-0cae6ab7c57a9d237 |
| 10.10.10.200 | -- | <input checked="" type="checkbox"/> Tool | i-0cae6ab7c57a9d328 |
| 10.10.10.300 | Excluded | VM200 | i-0cae6ab7c57a9f395 |

Cancel Deploy

- Review the list of available monitoring tools.
- Select the tools to exclude from traffic flow.
- Confirm the exclusion before deploying the session.

View Monitoring Session Statistics

The Monitoring Session **OVERVIEW** page lets you analyze the incoming and outgoing traffic on an hourly, daily, weekly, and monthly basis.

You can view the high level information of the selected Monitoring Session such as, connections, tunnel details, health status, deployment status, and information related to Application Intelligence statistics. You can view the detailed statistics of an individual traffic processing element in the **TRAFFIC PROCESSING** tab.

You can view the statistics by applying different filters as per the requirements of analyzing the data. GigaVUE-FM allows you to perform the following actions on the Monitoring Session Statistics page:

- You can view the incoming and outgoing traffic on an hourly, daily, weekly, and monthly basis.
- You can filter the traffic and view the statistics based on factors such as **Incoming, Outgoing, Ratio (Out/In), Incoming Packets, Outgoing Packets, Ratio (Out/In) Packets**. You can select the options from the drop-down list box in the **TOTAL TRAFFIC** section of the **OVERVIEW** page.
- You can also view the statistics of the Monitoring Session deployed in the individual V Series Nodes. To view the statistics of the individual GigaVUE V Series Node, select the name of the **V Series Node** for which you want to view the statistics from the GigaVUE V Series Node drop-down list on the bottom left corner of the **OVERVIEW** page.



Raw EndPoint (REP) is a part of the monitoring session but can also receive the bypassed traffic that is not filtered by the map, so it is recording more packets than expected. For example, if the map has a rule as IPv4, but the REP can receive the bypassed (non-ipv4) traffic. The recorded number of packets from the V Series node can be more than expected.

Visualize the Network Topology (VMware NSX-T)

You can have multiple connections in GigaVUE-FM. Each connection can have multiple Monitoring Sessions configured within it. The Topology tab provides a visual representation of the monitored elements within a selected connection and Monitoring Session.

To view the topology in GigaVUE-FM:

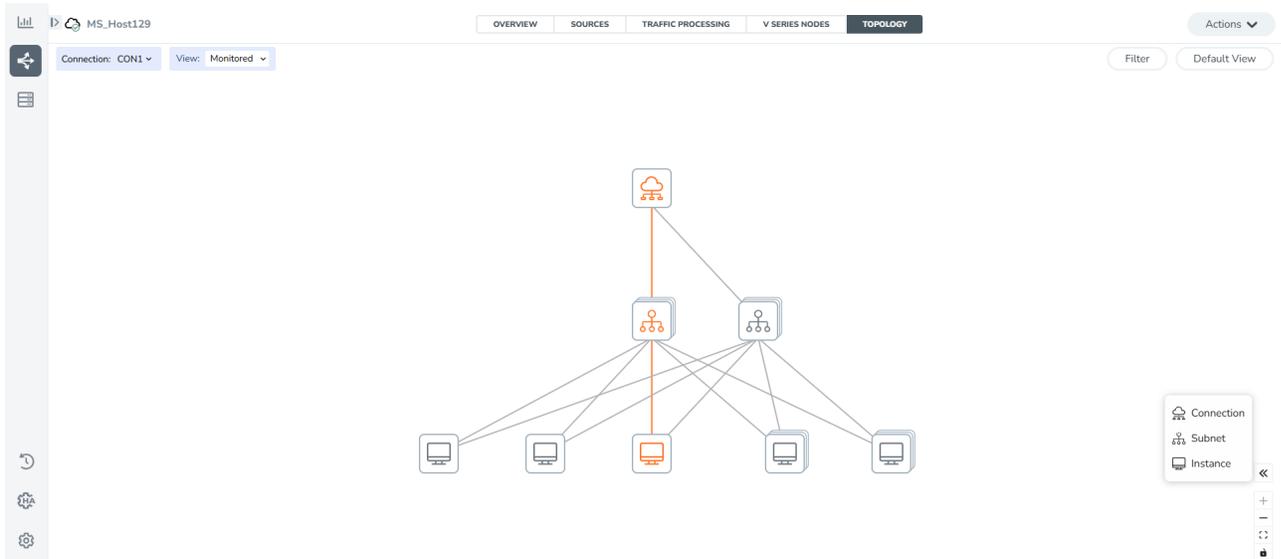
1. Go to **Traffic > Virtual > Orchestrated Flows** and select your cloud platform. The **Monitoring Sessions** landing page appears.
2. Create a Monitoring Session or select an existing Monitoring Session,
3. Open the **TOPOLOGY** tab.

- From the **Connection** list on the Topology page, select a connection.

The topology view of the monitored subnets and instances in the selected session is displayed.

- From **View**, select one of the following instance types:

- Fabric
- Monitored



- (Optional) Hover over the subnet or VM group icons to view details such as the subnet ID, subnet range, and the total number of subnets and instances.
- Select the subnet or VM group icons to explore the subnets or instances within the group.

In the Topology page, you can also perform the following:

- Use the **Filter** button to filter the instances based on the VM name, VM IP, OS Type, Subnet ID, or Subnet IP, and view the topology based on the search results.
- Use the **Default View** button to view the topology diagram based on the source interfaces of the monitored instances.
- Apply Navigation controls, such as:
 - Use the arrows at the bottom-right corner to move the topology page up, down, left, or right.
 - Use **+** or **-** icons to zoom in and zoom out of the topology view.
 - Select the **Fit View** icon to fit the topology diagram according to the width of the page.

Create Service Chain and NSX-T Group

You need to create a VMware NSX-T group and a service chain to redirect network traffic to GigaVUE Cloud Suite.

- The VMware NSX-T group defines which virtual machines (VMs) are monitored.
- The service chain links the group to GigaVUE Cloud Suite using a service profile.

Create Service Chain

Using the instructions given below, you can create a service chain that defines traffic redirection for selected VMs. For details on creating security policies, refer to the *Service Composer* chapter of the *NSX Administration Guide* in the VMware documentation.

To create the service chain in VMware NSX-T,

1. In the VMware NSX Manager, go to **Security > Settings > Network Introspection**.
2. Go to the **SERVICE CHAINS** tab and select **ADD CHAIN**.
3. On the New Service Chain, perform the following:
 - a. In the **Name** and **Description** fields, enter a name and description for the service chain, respectively.
 - b. For **Service Segments**, select a service segment.
 - c. Select **Forward Path**.
 - d. On the **Set Forward Path** dialog box, select a Service Profile for Forward Path.
 - e. For **Reverse Path**, select or deselect the **Inverse Forward Path** to define traffic direction.
 - f. For **Failure Policy**, specify whether to allow or block the service chain.
4. Select **Save**.

A Service Chain is created.

Create Group

You need to create a group to forward NSX-T network traffic to the GigaVUE Cloud Suite.

To create the group, do the following in the NSX-T:

1. In the VMware NSX manager, select **Inventory > Groups**.
2. On the **Groups** page, select **ADD GROUP**.
3. On the **New Group** page, enter or select the values as follows.
 - a. Enter a name for the new group.
 - b. Select **Set Members**.
The **Select Members** dialog box appears.
4. Select **Save**.
A group is created and appears on the **Groups** page. Add the description and define group membership using **Membership Criteria, Members, IP/MAC Addresses, or AD Groups**.

Create and Publish a Policy

A Policy is a set of rules defined to filter the traffic. You need to create a policy to define how traffic flows from the selected VMs to the configured tunnel endpoint.

To create and publish a policy in NSX-T:

1. In the VMware NSX manager, select **Security > Service Chain Management > Network Introspection (E-W)**.
2. Select **ADD POLICY**.
3. On the New Policy, enter or select the values as follows:
 - a. Enter a name for the policy.
 - b. Select the **Sources** of the traffic.
 - c. Select the **Destinations** of the traffic.
 - d. Select the **Services** for the traffic.
 - e. For the **Applied To** field, select the appropriate groups.



Points to Note:

- When using the same NSX-T manager to create multiple Monitoring Domains, if you prefer to associate a single vCenter with each Monitoring Domain, ensure that you select only the members of the vCenter related to that specific Monitoring Domain.
- All the workload VMs from the vCenters that are selected in the **Applied To** group sends traffic to the GigaVUE V Series Node. Ensure to select only the workload VMs from the vCenters that are associated with the Monitoring Domain, else the GigaVUE V Series Node receives traffic from the vCenters that are not associated with the Monitoring Domain.

- f. On the **Action** field, specify whether to redirect the traffic or not.
4. Select **Publish**.

On publishing the rule or policy, you can view the traffic flow from the GigaVUE V Series Nodes to the tunnel endpoint.

Migrate Application Intelligence Session to Monitoring Session

Starting from Software version 6.5.00, you must configure the Application Intelligence solution from Monitoring Session Page. After upgrading to 6.5.00, you cannot create a new Application Intelligence Session or edit an existing Application Intelligence Session for a virtual environment from the **Application Intelligence** page.

The following actions are available only when using the existing Application Intelligence Session:

- View Details
- Delete
- Forced Delete

We recommend to migrate the existing sessions to Monitoring Session for full functionality. GigaVUE-FM seamlessly migrates all your virtual Application Intelligence sessions and their connections. If migration fails, all sessions return to their original states.



Points to Note:

- You must have write access for the **Traffic Control Management** Resource in GigaVUE-FM to perform this migration. For details, refer to Create Roles section In GigaVUE Administration Guide
- The migration does not proceed:
 - If any of the existing Application Intelligence Session is in PENDING or SUSPENDED. Resolve the issue and start the migration process.
 - If any of the existing Application Intelligence Session is in FAILED state due to incorrect configuration. Resolve the issue and start the migration process.
 - If an existing Monitoring Session has the same name as the Application Intelligence Session. Change the existing Monitoring Session name to continue with the migration process.
- You cannot continue the session if any of the existing Application Intelligence Session has Application Filtering configured with Advanced Rules as Drop Rule and No Rule Match Pass All in the 5th rule set. In the Monitoring Session, the fifth Rule Set supports either Pass All or Advanced Rules as Drop. Delete this session and start the migration.



- When migrating the Application Intelligence Session, in rare scenarios, the migration process might fail after the pre-validation. In such cases, all the Application Intelligence Session roll back to the Application Intelligence page. Contact Technical Support for assistance.

Migrate your existing Application Intelligence Session to Monitoring Session Page

Follow these steps:

1. In the left navigation pane, select **Traffic > Solutions > Application Intelligence**. You cannot create a new Application Intelligence Session from this page. When you have an existing virtual Application Intelligence Session in the above page, the **Migrate Virtual Application Intelligence** dialog box appears.
2. Review the message and select **Migrate**. The **Confirm Migration** dialog box appears with the list of Application Intelligence Session that you need to migrate.
3. Review the list and select **Migrate**. GigaVUE-FM verifies the requirements and then migrates the Application Intelligence Sessions to the Monitoring Session Page.
4. Select **Go to Monitoring Session Page**.

You can view that all the virtual Application Intelligence Sessions in the Application Intelligence page are migrated to the Monitoring Session Page.

Post Migration Notes for Application Intelligence

After migrating Application Intelligence session to Monitoring Session page, consider the following:

1. **Secure Tunnels in the Options page** If you wish to enable Secure tunnels after migrating the Session, follow these steps:
 - a. Go to **Traffic > Virtual > Orchestrated Flows > Select your cloud platform**.
 - b. Select a Monitoring Session from the Monitoring Sessions list view on the left pane and select the **TRAFFIC ACQUISITION** tab.
 - c. Enable **Secure tunnels**. For information about how to enable secure tunnel for a Monitoring Session, refer to the *Configure Monitoring Session Options* topic in the respective GigaVUE Cloud Suite Deployment Guide.
 - d. Go to **Traffic > Virtual > Orchestrated Flows** and select your cloud platform.
 - e. From the **Monitoring Sessions** page, select the Monitoring Session for which you enabled Secure Tunnels.
 - f. Select **Actions > Undeploy**. The Monitoring Session is undeployed.
 - g. Select the Monitoring Session for which you enabled Secure Tunnels and edit the Monitoring Session.
 - h. Add the Application Intelligence applications.
 - i. Modify the Number of Flows as per the below table.

| Cloud Platform | Instance Size | Maximum Number of Flows |
|----------------|-----------------------------|-------------------------|
| VMware | Large (8 vCPU and 16GB RAM) | 200k |

- Medium Form Factor is supported for VMware ESXi only when secure tunnels option is disabled. The maximum Number of Flows for VMware ESXi when using a medium Form Factor is 50k..
 - If the rate of unique UDP sessions per second exceeds the threshold—calculated as maximum number of flows per second divided by the UDP timeout value—the system may fail to classify applications correctly. In such cases, AFI may not filter packets accurately, resulting in incorrect packet passes or drops. However, this limitation does not apply to DNS flows.
- j. Select **Deploy**. For details on how to deploy, refer to Application Intelligence section in the GigaVUE V Series Applications Guide.

2. Temporary Loss of Statistics with Version Mismatch

When GigaVUE-FM version is 6.5.00, and the GigaVUE V Series Node version is below 6.5.00, after migrating the Application Intelligence Session to the Monitoring Session and redeploying the monitoring session, a momentary loss in the statistical data of the Application Visualization application appears while redeploying the monitoring session.

3. Configuration Changes Post-Migration

After migrating the Application Intelligence Session to monitoring session, if you wish to make any configuration changes, then make sure that the GigaVUE V Series Node version is greater than or equal to 6.3.00.

Monitor Cloud Health

GigaVUE-FM allows you to monitor the traffic and configuration health status of the monitoring session and its individual components. This section provides detailed information on how to view the traffic and configuration health status of the monitoring session and its individual components. Refer to the following topics for more detailed information on configuration health, traffic health and how to view the health status:

- [Configuration Health Monitoring](#)
- [Traffic Health Monitoring](#)
- [View Health Status](#)

Configuration Health Monitoring

The configuration health status provides detailed information about the configuration and deployment status of the deployed monitoring session.

It supports specific fabric components and features on the respective cloud platforms.

| Configuration Health Monitoring | GigaVUE Cloud Suite for AWS | GigaVUE Cloud Suite for Azure | GigaVUE Cloud Suite for OpenStack | GigaVUE Cloud Suite for VMware | GigaVUE Cloud Suite for Nutanix |
|-----------------------------------|-----------------------------|-------------------------------|-----------------------------------|--------------------------------|---------------------------------|
| GigaVUE V Series Nodes | ✓ | ✓ | ✓ | ✓ | ✓ |
| UCT-V | ✓ | ✓ | ✓ | ✗ | ✗ |
| VPC Mirroring | ✓ | ✗ | ✗ | ✗ | ✗ |
| OVS Mirroring and VLAN Trunk Port | ✗ | ✗ | ✓ | ✗ | ✗ |

Refer to the [View Health Status](#) section to view the configuration health status.

Traffic Health Monitoring

GigaVUE-FM monitors the traffic health of the entire Monitoring Session and each individual GigaVUE V Series Node in that session. It checks for issues like packet drops or traffic overflows.

When it detects a problem, GigaVUE-FM updates the health status of the related Monitoring Session. It monitors traffic health in near real-time.

The GigaVUE V Series Node tracks traffic levels. If traffic goes above or below the configured threshold, it alerts GigaVUE-FM. Then, GigaVUE-FM then uses this data to calculate traffic health.

If you deploy GigaVUE-FM and GigaVUE V Series Nodes in different cloud platforms, you must add the GigaVUE-FM public IP address as the Target Address in the Data Notification Interface on the Event Notifications page.

For details, refer to the section in the *GigaVUE Administration Guide* .

This feature supports GigaVUE V Series Nodes on the respective cloud platforms:

For V Series Nodes:

- AWS
- Azure
- OpenStack
- VMware
- Third Party Orchestration

For instructions on creating and applying threshold templates across a Monitoring Session or an application, and viewing the traffic health status, refer to the following topics:

- [Supported Resources and Metrics](#)
- [Create Threshold Templates](#)
- [Apply Threshold Template](#)
- [Clear Thresholds](#)

Consideration to configure a threshold template

- By default, Threshold Template is not configured to any Monitoring Session. If you wish to monitor the traffic health status, then create and apply threshold template to the Monitoring Session.
- Editing or redeploying the Monitoring Session reapplies all the threshold policies associated with that Monitoring Session.
- Deleting the Monitoring Session clears all the threshold policies associated with that Monitoring Session.
- Threshold configuration is applied before deploying a Monitoring Session and remains even if the session is undeployed.
- After applying threshold template to a particular application, you need not deploy the Monitoring Session again.

Supported Resources and Metrics

The following table lists the resources and the respective metrics supported for traffic health monitoring. Refer to [Create Threshold Templates](#) and [Apply Threshold Template](#) sections for details on Threshold types and Threshold events.

| Resource | Metrics | Threshold types | Trigger Condition |
|------------------|--|--|---|
| Tunnel End Point | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Tx Bytes 4. Rx Bytes 5. Tx Dropped 6. Rx Dropped 7. Tx Errors 8. Rx Errors | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |
| RawEnd Point | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Tx Bytes 4. Rx Bytes 5. Tx Dropped 6. Rx Dropped 7. Tx Errors 8. Rx Errors | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |
| Map | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |
| Slicing | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |
| Masking | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |
| Dedup | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |
| HeaderStripping | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |

| | | | |
|----------------------|---|--|---|
| TunnelEncapsulation | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |
| LoadBalancing | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |
| SSLDecryption | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |
| Application Metadata | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |
| AMX | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped 4. Ingestor - Rx packets 5. Ingestor - Packets Dropped 6. Ingestor - Rx Octets 7. Ingestor - Octets Dropped 8. Ingestor - Records Dropped 9. Workload - Records Dropped 10. Workload - Req Auth Errors 11. Workload - Req Timedout Errors 12. Workload - Req Errors 13. Exporter - Avg File Size 14. Exporter - File Uploads 15. Exporter - File Uploads Errors 16. Enrichment - One Minute Percent | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |

| | | | |
|--------|--|--|---|
| Geneve | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |
| 5G-SBI | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |
| SBIPOE | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |
| PCAPNG | <ol style="list-style-type: none"> 1. Tx Packets 2. Rx Packets 3. Packets Dropped | <ol style="list-style-type: none"> 1. Difference 2. Derivative | <ol style="list-style-type: none"> 1. Over 2. Under |

Create Threshold Templates

To create threshold templates:

1. Go to **Inventory > Resources > Threshold Templates**.

The **Threshold Templates** page appears.

2. Select **Create** to open the New Threshold Template page.

- Enter the appropriate information for the threshold template as described in the following table:

| Field | Description |
|--------------------------------|---|
| Threshold Template Name | The name of the threshold template. |
| Thresholds | |
| Traffic Element | Select the resource for which you wish to apply the threshold template. Ex: TEP, REP, Maps, Applications like Slicing, De-dup etc |
| Time Interval | Frequency at which the traffic flow needs to be monitored. |
| Metric | Metrics that need to be monitored. For example: Tx Packets, Rx Packets. |
| Type | Difference: The difference between the stats counter at the start and end time of an interval, for a given metric. Derivative: Average value of the statistics counter in a time interval, for a given metric. |
| Condition | Over: Checks if the statistics counter value is greater than the 'Set Trigger Value'. Under: Checks if the statistics counter value is lower than the 'Set Trigger Value'. |
| Set Trigger Value | Value at which a traffic health event is raised, if statistics counter goes below or above this value, based on the condition configured. |
| Clear Trigger Value | Value at which a traffic health event is cleared, if statistics counter goes below or above this value, based on the condition configured. |

- Select **Save**.
The newly created threshold template is saved, and it appears on the **Threshold** templates page.

Apply Threshold Template

You can apply your threshold template across the entire Monitoring Session and also to a particular application.

Apply Threshold Template to Monitoring Session

To apply the threshold template across a Monitoring Session, follow these steps:

- On the left pane in GigaVUE-FM, select **Traffic > Virtual > Orchestrated Flows** and select your cloud platform. The **Monitoring Session** page appears.
- In the **TRAFFIC PROCESSING** tab, select **Options>Thresholds** menu.
- From the **Select Template** drop-down list, select the template you wish to apply across the Monitoring Session.
- Select **Apply**.

NOTE: You can apply the Threshold configuration to a Monitoring Session before it is deployed. Furthermore, undeploying the Monitoring Session does not remove the applied Thresholds.

Apply Threshold Template to Applications

Applying threshold template across Monitoring Session does not overwrite the threshold value applied specifically for an application. When a threshold value is applied to a particular application, it overwrites the existing threshold value for that particular application.

To apply the threshold template to a particular application in the Monitoring Session, follow these steps:

1. On the **Monitoring Session** page, select **TRAFFIC PROCESSING** tab. The Monitoring Session canvas page appears.
2. Select on the application for which you wish to apply or change a threshold template and select **Details**. The **Application** quick view opens.
3. Select the **Thresholds** tab.
4. Select the template you wish to apply from the Threshold Template drop-down menu or enter the threshold values manually.
5. Select **Save**.

Clear Thresholds

You can clear the thresholds across the entire Monitoring Session and also to a particular application.

Clear Thresholds for Applications

To clear the thresholds of a particular application in the Monitoring Session, follow these steps:

1. On the **Monitoring Session** page, select the **TRAFFIC PROCESSING** tab. The Monitoring Session canvas page appears.
2. Select the application for which you wish to clear the thresholds and click **Details**. The **Application** quick view opens.
3. Select the **Thresholds** tab.
4. Select **Clear All** and then select **Save**.

Clear Thresholds across the Monitoring Session

To clear the applied thresholds across a Monitoring Session, follow these steps:

1. On the left navigation pane in GigaVUE-FM, go to **Traffic > Virtual > Orchestrated Flows** and select your cloud platform. The **Monitoring Sessions** landing page appears.
2. Select the Monitoring Session and navigate to **TRAFFIC PROCESSING > Options > Thresholds**,
3. Select **Clear Thresholds**.
4. On the **Clear Threshold** pop-up appears, select **Ok**.

NOTE: Clearing thresholds at Monitoring Session level does not clear the thresholds that were applied specifically at the application level. To clear thresholds for a particular application, refer to [Clear Thresholds for Applications](#)

View Health Status

You can view the health status of the Monitoring Session on the Monitoring Session details page. The health status of the Monitoring Session is healthy only if both the configuration health and traffic health are healthy.

View Health Status of an Application

To view the health status of an application across an entire Monitoring Session,

1. Go to **Traffic > Virtual > Orchestrated Flows** and select your cloud platform.
2. Select a Monitoring Session and navigate to the **TRAFFIC PROCESSING** tab.
3. Select the application for which you wish to see the health status and select **Details**. The quick view page appears.
4. Select the **HEALTH STATUS** tab.

This displays the application's **Configuration Health**, **Traffic Health**, and the **Operational Health**, along with the thresholds applied to each.

NOTE: The secure tunnel status is refreshed every 5 minutes, and the GigaVUE-FM does not display UCT-V secure tunnel status that is older than 7 minutes. If the secure tunnel in the UCT-V is removed, it takes up to 7 minutes to reset the status on the GigaVUE-FM.

View Operational Health Status of an Application

When you configure the Application Metadata Exporter to use **Kubernetes** as the workload platform, the V Series Node transmits failure and error events to GigaVUE-FM, which processes them and updates the node's health status on the Monitoring Session page. When interacting with Kubernetes workloads, the system may encounter errors while retrieving resources such as pods, services, nodes, or endpoints. Refer to [Errors](#) for additional error details.

Operational events for Exporter:

Refer below for message format and messages that indicate common issues that can occur during the operations:

Format: <Server Type>_<Message>

Server Types: CLOUD EXPORT, KAFKA

| Message | Description |
|--------------------------------|--|
| UPLOAD_MAX_TRIES_EXCEED | Upload retries exceeded the maximum limit Example: CLOUDEXPORTER_UPLOAD_MAX_TRIES_EXCEED |
| REACHABILITY_FROM_AMX_TO_TOOLS | AMX failed to reach the tool (Cloud Exporter server or Kafka server) Example: CLOUDEXPORTER_REACHABILITY_FROM_AMX_TO_TOOLS |
| NO_IP_ADDRESS | No IP address was configured on the interface Example: CLOUDEXPORTER_NO_IP_ADDRESS |
| EXPORTER_UPLOAD_ERROR | Upload to the exporter failed Example: CLOUDEXPORTER_EXPORTER_UPLOAD_ERROR |

Operational events for Enrichment:

Refer below for message format and messages that indicate common issues that can occur during the operations:

Format: <Operation Type>_<Message>

Operation Types: GETSERVICES, GETPODS, GETNODES, GETENDPOINTSPLICES, WATCHALL

| Message | Description |
|----------------------------|---|
| K8S_AUTHORIZATION_FAILURE | The request was denied due to insufficient permissions Example: GETPODS_K8S_AUTHORIZATION_FAILURE |
| K8S_AUTHENTICATION_FAILURE | Authentication failed. Verify your credentials Example: GETPODS_K8S_AUTHENTICAIION_FAILURE |
| K8S_UNHANDLED_ERROR | An unspecified error occurred. Check the error description Example: GETPODS_K8S_UNHANDLED_ERROR |

View Health Status for Individual GigaVUE V Series Nodes

You can also view the health status of an individual GigaVUE V Series Node. To view the configuration health status and traffic health status of the V Series Nodes:

1. On the Monitoring Session page, select the required Monitoring Session from the list view.
2. In the **Overview** tab, view the health status of the required GigaVUE V Series Node from the chart options.

View Application Health Status for Individual V Series Nodes

To view the application configuration and traffic health status of the GigaVUE V Series Nodes:

1. On the Monitoring Session page, select the required Monitoring Session from the list view.
2. On the Overview tab, select the GigaVUE V Series Node from the All V Series Nodes drop-down menu.

The list view displays the list of applications for the selected GigaVUE V Series Node and the health status of each application.

Configure VMware Settings

This section provides information on how to configure the maximum number of connections, refresh intervals for instance and non-instance inventory, and maximum batch size for monitoring session updates.

To configure the VMware Settings,

1. Go to **Inventory > VIRTUAL > VMware NSX-T (V Series)**,
2. Select **Settings > Advanced Settings** to edit the VMware V Series NSX-T settings.

Advanced Settings

| | |
|---|-------|
| Maximum number of vCenter connections allowed | 20 |
| Refresh interval for VM target selection inventory (secs) | 300 |
| Refresh interval for fabric deployment inventory (secs) | 86400 |
| Traffic distribution tunnel range start | 8000 |
| Traffic distribution tunnel range end | 8512 |
| Traffic distribution tunnel MTU | 9001 |
| Maximum V Series node up wait time in minutes | 5 |

Refer to the following table for details:

| Settings | Description |
|--|---|
| Maximum number of vCenter connections allowed | Specifies the maximum number of vCenter connections you can establish in GigaVUE-FM |
| Refresh interval for VM target selection inventory (secs) | Specifies the frequency for updating the state of target VMs in VMware vCenter |
| Refresh interval for fabric deployment inventory (secs) | Specifies the frequency for updating the state of GigaVUE-FM fabrics deployed in VMware vCenter |
| Traffic distribution tunnel range start | Specifies the start range value of the tunnel ID. |
| Traffic distribution tunnel range end | Specifies the closing range value of the tunnel ID. |
| Traffic distribution tunnel MTU | Specifies the Tunnel MTU value. |
| Maximum V Series Node up wait time | Specifies the maximum amount of time taken for the GigaVUE V Series Node state to go to OK. |

Configure Certificate Settings

To configure certificate settings:

1. Go to **Inventory > VIRTUAL**.
2. Select your cloud platform.
3. Select **Settings > Certificate Settings**.
The **Certificate Settings** page appears.
4. From the **Algorithm** drop-down list, select the algorithm that determines the cryptographic security of the certificate.

NOTE: If selecting RSA 8192, the certificate generation may take longer due to the increased key size.

5. In the **Validity** field, enter the total validity period of the certificate.
6. In the **Auto Renewal** field, enter the number of days before expiration of the auto-renewal process should begin.
7. Select **Save**.

Analytics for Virtual Resources

Analytics in GigaVUE-FM is a standalone service that provides data visualization capabilities. Using Analytics¹, you can create visual elements such as charts that are embedded as visualizations. The visualizations are grouped together in dashboards.

¹Analytics uses the OpenSearch front-end application to visualize and analyze the data in the OpenSearch database of GigaVUE-FM.

You can also create search objects using Analytics. Dashboards, Visualizations and Search Objects are called Analytics objects. For details, refer to [Analytics](#).

Rules and Notes:

- You cannot edit or delete these default dashboards. However, you can clone the dashboards and visualizations.
Refer to the Clone Dashboard section in GigaVUE-FM Installation and Upgrade Guide for more details.
- Use the **Time Filter** option to select the required time interval for which you need to view the visualization.

Virtual Inventory Statistics and Cloud Applications Dashboard

Analytics dashboards allow users to monitor the physical and virtual environment and detect anomalous behavior and plan accordingly.

For details, refer to the [Analytics](#) section in *GigaVUE Fabric Management Guide* for details on how to create a new dashboard, clone a dashboard, create a new visualization, and other information about the Discover page and Reports page.

How to access the dashboards

- Go to  -> **Analytics -> Dashboards**.
- Select the required dashboard to view the visualizations.

The following table lists the various virtual dashboards:

| Dashboard | Displays | Visualizations | Displays |
|-----------------------------------|---|--|---|
| Inventory Status (Virtual) | Statistical details of the virtual inventory based on the platform and the health status. You can view the following metric details at the top of the dashboard: <ul style="list-style-type: none"> Number of Monitoring Sessions Number of V Series Nodes Number of Connections Number of GCB Nodes You can filter the visualizations based on the following control filters: <ul style="list-style-type: none"> Platform Health Status | <i>V Series Node Status by Platform</i> | Number of healthy and unhealthy V Series Nodes for each of the supported cloud platforms. |
| | | <i>Monitoring Session Status by Platform</i> | Number of healthy and unhealthy monitoring sessions for each of the supported cloud platforms |
| | | <i>Connection Status by Platform</i> | Number of healthy and unhealthy connections for each of the supported cloud platforms |

| Dashboard | Displays | Visualizations | Displays |
|---------------------------------|---|---|--|
| | | <i>GCB Node Status by Platform</i> | Number of healthy and unhealthy GCB nodes for each of the supported cloud platforms |
| V Series Node Statistics | <p>Displays the Statistics of the V Series node such as the CPU usage, trend of the receiving and transmitting packets of the V Series node.</p> <p>You can filter the visualizations based on the following control filters:</p> <ul style="list-style-type: none"> • Platform • Connection • V Series Node | <i>V Series Node Maximum CPU Usage Trend</i> | <p>Line chart that displays maximum CPU usage trend of the V Series node in 5 minutes interval, for the past one hour.</p> <p>Note: The maximum CPU Usage trend refers to the CPU usage for service cores only. Small form factor V Series nodes do not have service cores, therefore the CPU usage is reported as 0.</p> |
| | | <i>V Series Node with Most CPU Usage For Past 5 minutes</i> | <p>Line chart that displays Maximum CPU usage of the V Series node for the past 5 minutes.</p> <p>Note: You cannot use the time based filter options to filter and visualize the data.</p> |
| | | <i>V Series Node Rx Trend</i> | Receiving trend of the V Series node in 5 minutes interval, for the past one hour. |
| | | <i>V Series Network Interfaces with Most Rx for Past 5</i> | Total packets received by each of |

| Dashboard | Displays | Visualizations | Displays |
|-------------------------|--|---|---|
| | | <i>mins</i> | the V Series network interface for the past 5 minutes. Note: You cannot use the time based filter options to filter and visualize the data. |
| | | <i>V Series Node Tunnel Rx Packets/Errors</i> | Displays the reception of packet at the Tunnel RX. This is the input to V Series Node, Grouping by tunnel identifier comprising {monDomain, conn, VSN, tunnelName}, before aggregation. |
| | | <i>V Series Node Tunnel Tx Packets/Errors</i> | TX is for output tunnels from VSN. V Series Node Tunnel Tx Packets/Errors |
| Dedup | Displays visualizations related to Dedup application. You can filter the visualizations based on the following control filters: <ul style="list-style-type: none"> Platform Connection V Series Node | <i>Dedup Packets Detected/Dedup Packets Overload</i> | Statistics of the total de-duplicated packets received (ipV4Dup, ipV6Dup and nonIPDup) against the de-duplication application overload. |
| | | <i>Dedup Packets Detected/Dedup Packets Overload Percentage</i> | Percentage of the de-duplicated packets received against the de-duplication application overload. |
| | | <i>Total Traffic In/Out Dedup</i> | Total incoming traffic against total outgoing traffic |
| Tunnel (Virtual) | Displays visualizations related to the tunneled traffic in both bytes as well as the number of packets. You can select the following | <i>Tunnel Bytes</i> | Displays received tunnel traffic vs transmitted tunnel traffic, in bytes. |

| Dashboard | Displays | Visualizations | Displays |
|----------------------|---|--------------------------------------|--|
| | <p>control filters, based on which the visualizations will get updated:</p> <ul style="list-style-type: none"> • Monitoring session: Select the required monitoring session. The cloud platform, monitoring domain and connection within the monitoring domain that is used by the V Series node are shown in square brackets, comma-separated, after the name, to distinguish the whole path to it. • V Series node: Management IP of the V Series node. Choose the required V Series node from the drop-down. • Tunnel: Select any of the tunnels shown in the Tunnel drop-down. The direction for each tunnel is shown with the prefix in or out. <p>The following statistics are displayed for the tunnel:</p> <ul style="list-style-type: none"> • Received Bytes • Transmitted Bytes • Received Packets • Transmitted Packets • Received Errored Packets • Received Dropped Packets • Transmitted Errored Packets • Transmitted Dropped Packets | <p></p> <p><i>Tunnel Packets</i></p> | <ul style="list-style-type: none"> • For input tunnel, transmitted traffic is displayed as zero. • For output tunnel, received traffic is displayed as zero. <p>Displays packet-level statistics for input and output tunnels that are part of a monitoring session.</p> |
| App (Virtual) | <p>Displays Byte and packet level statistics for the applications for the chosen monitoring session on the selected V Series node.</p> <p>You can select the following control filters, based on which the visualizations will get updated:</p> <ul style="list-style-type: none"> • Monitoring session • V Series node | <i>App Bytes</i> | Displays received traffic vs transmitted traffic, in Bytes. |

| Dashboard | Displays | Visualizations | Displays |
|-----------------------------------|--|------------------------------|--|
| | <ul style="list-style-type: none"> • Application: Select the required application. By default, the visualizations displayed includes all the applications. <p>By default, the following statistics are displayed:</p> <ul style="list-style-type: none"> • Received Bytes • Transmitted Bytes • Received Packets • Transmitted Packets • Errored Packets • Dropped Packets | <p><i>App Packets</i></p> | <p>Displays received traffic vs transmitted traffic, as the number of packets.</p> |
| <p>End Point (Virtual)</p> | <p>Displays Byte and packet level statistics for the un-tunneled traffic deployed on the V Series nodes.</p> <p>The following statistics that are shown for Endpoint (Virtual):</p> <ul style="list-style-type: none"> • Received Bytes • Transmitted Bytes • Received Packets • Transmitted Packets • Received Errored Packets • Received Dropped Packets • Transmitted Errored Packets • Transmitted Dropped Packets <p>The endpoint drop-down shows <V Series Node Management IP address : Network Interface> for each endpoint.</p> <p>You can select the following control filters, based on which the visualizations will get updated:</p> <ul style="list-style-type: none"> • Monitoring session • V Series node | <p><i>Endpoint Bytes</i></p> | <p>Displays received traffic vs transmitted traffic, in Bytes.</p> |

| Dashboard | Displays | Visualizations | Displays |
|-----------|---|------------------|---|
| | <ul style="list-style-type: none"> Endpoint: Management IP of the V Series node followed by the Network Interface (NIC) | Endpoint Packets | Displays received traffic vs transmitted traffic, as the number of packets. |

NOTE: The Tunnel (Virtual), App (Virtual) and Endpoint (Virtual) dashboards do not show data from the previous releases if the *Monitoring Session [Platform : Domain : Connection]* dashboard filter is applied. This is because, this filter relies on the new attributes in the OpenSearch database, which are available only from software version 5.14.00 and beyond.

Remove Gigamon Service from NSX-T and GigaVUE-FM

To clean up the Gigamon Deep Observability Pipeline from VMware NSX-T and GigaVUE-FM, perform the following steps in order:

Step 1: Remove the Rule and Policy

To delete the network monitoring services:

1. Select **Security > Service Chain Management > E-W Network Introspection**. The E-W Network Introspection page appears.
2. On the E-W Network Introspection page, locate the policy created for Gigamon tapping.
3. Expand the policy and perform the following:
 - a. To delete the rule associated with the policy, select the  icon on the Rule Column and then select **Delete**
 - b. To delete the policy, select the  icon on the policy and then select **Delete**.

Step 2: Remove the Service Chain

To delete the network monitoring services:

1. In NSX-T Manager, select **Security > Settings > Network Introspection**.
2. Select the **SERVICE CHAINS** tab.
3. Located the service chain associated with the Gigamon service profile,

4. Select  available next to the service chain and select **Delete**.

Step 3: Delete the Monitoring Session

To delete the Monitoring session from GigaVUE-FM:

1. From the left pane, select **Traffic > VIRTUAL > Orchestrated Flows > VMware**.
The Monitoring Sessions pertaining to all VMware deployment appears.
2. Select the NSX-T related Monitoring Session and select **Actions > Undeploy**.
The Monitoring Session is Undeployed.
3. Select the Monitoring Session again and select **Actions > Delete**.

This action deletes the corresponding service profile and the profile from the NSX-T manager console.

Step 4: Delete the Monitoring Domain

To delete the Monitoring Domain and the GigaVUE V Series Node deployed in GigaVUE-FM:

1. From the left navigation pane, select **Inventory > VIRTUAL > VMware NSX-T > Monitoring Domain**.
The Monitoring Domain page appears with the deployed GigaVUE V Series Nodes.
2. Select the appropriate **Monitoring Domain**,
3. Select **Actions > Delete Monitoring Domain**.

This action deletes the corresponding **Service Deployment** from the NSX-T Manager.

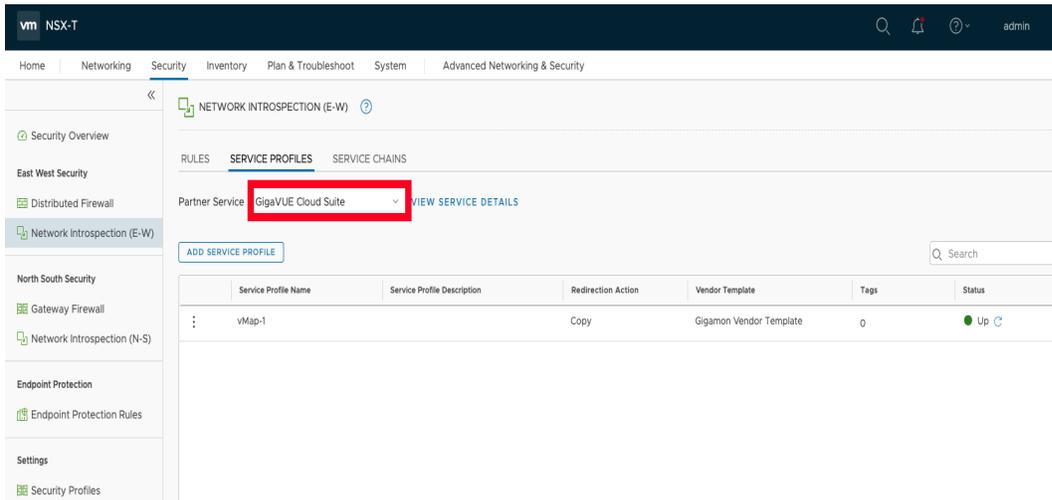
GigaVUE V Series Deployment Clean up

If a GigaVUE V Series node installation fails or the service is not fully removed, you must clean up the deployment before attempting a reinstall. Follow the steps below to remove all related components from NSX-T Manager and GigaVUE-FM.

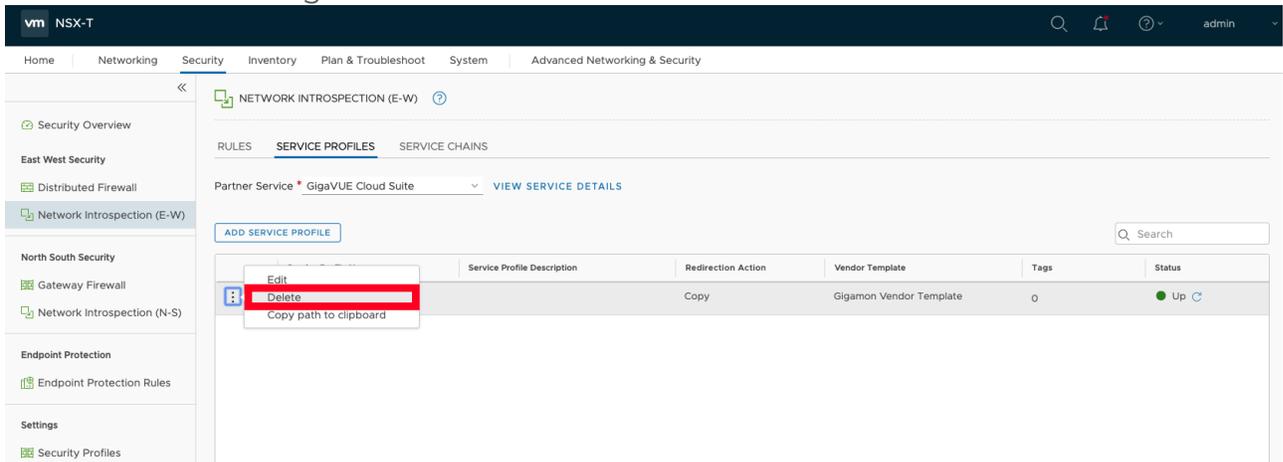
Step 1: Delete Rule and Policy in NSX-T Manager

To remove Service Profiles:

1. From NSX-T Manager, navigate to **Security > Network Introspection (E-W)**.
2. In the **SERVICE PROFILES** tab, select the service name of the Monitoring Domain from the **Partner Service** drop-down.



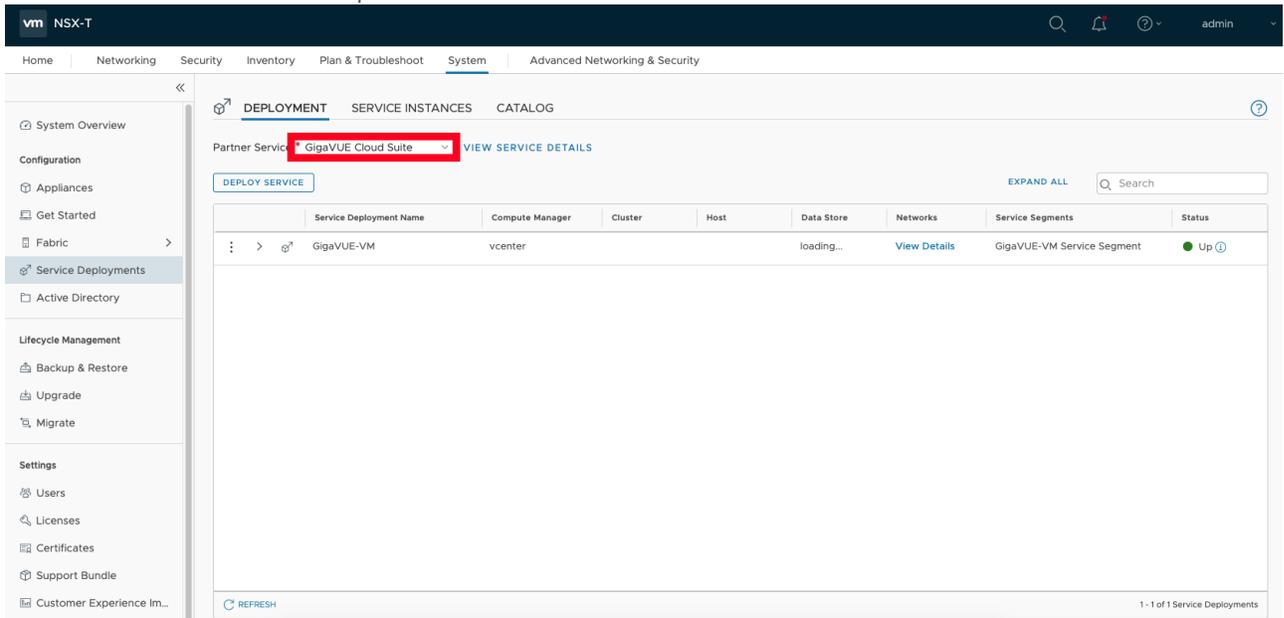
3. Delete all the existing Service Profiles.



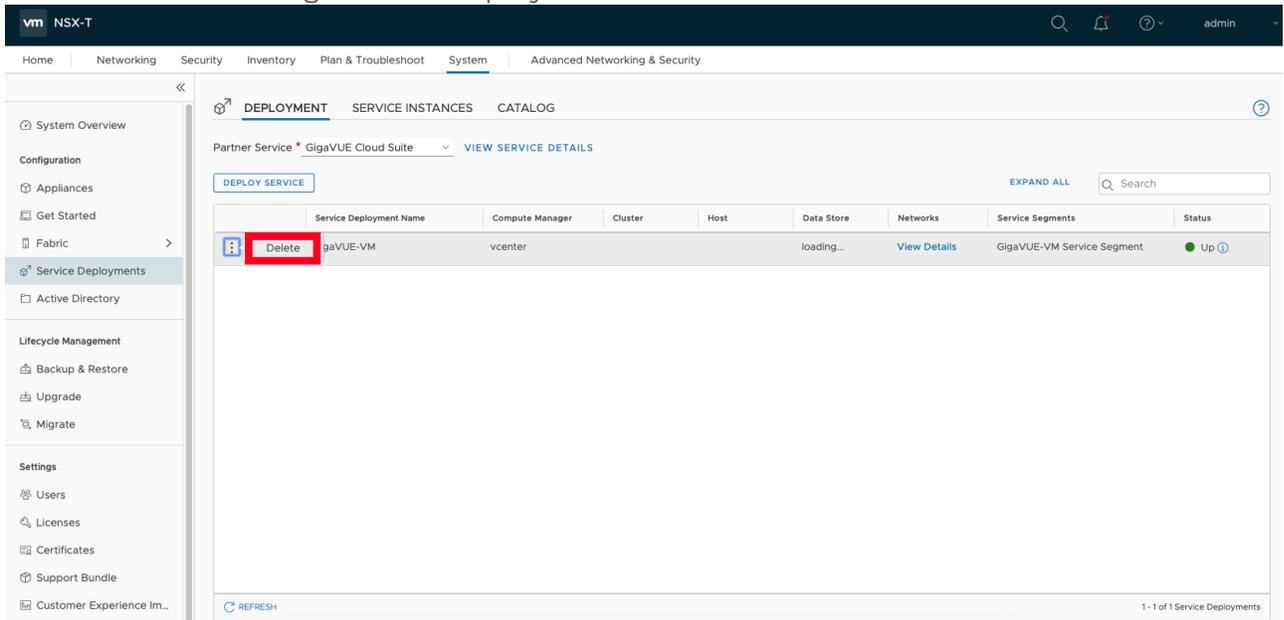
Remove Service Deployments

To remove Service Deployments:

1. From NSX-T Manager, navigate to **System > Service Deployments**.
2. From the **DEPLOYMENT** tab, select the service name of the Monitoring Domain from the **Partner Service** drop-down.

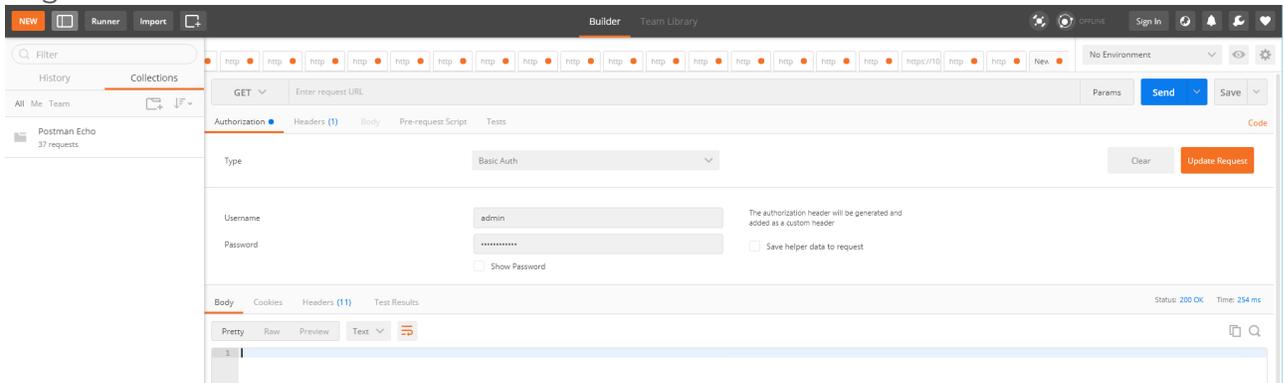


3. Delete all the existing Service Deployments.



To remove the Service Deployments through NSX-T API:

1. Log in to Postman.

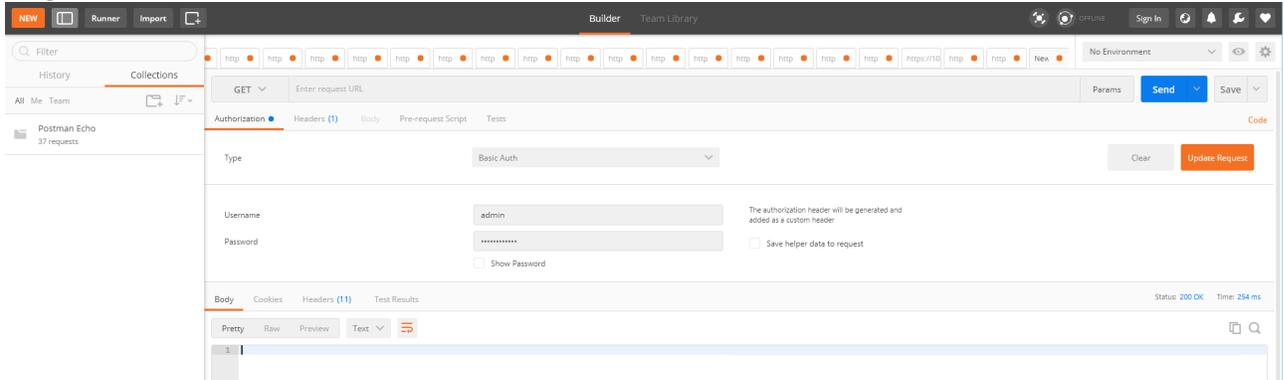


2. Get the Service ID. **GET** `https://<NSX_Manager_IP>/api/v1/serviceinsertion/services/`
3. Get the ID of the Service Deployments. **GET** `https://<NSX_Manager_IP>/api/v1/serviceinsertion/services/<Service_ID>/service-deployments/`
4. Delete all Service Deployments. **DELETE** `https://<NSX_Manager_IP>/api/v1/serviceinsertion/services/<Service_ID>/service-deployments/<Service_Deployment_ID>`

Remove Service Reference

To remove Service References through NSX-T API:

1. Log in to Postman.

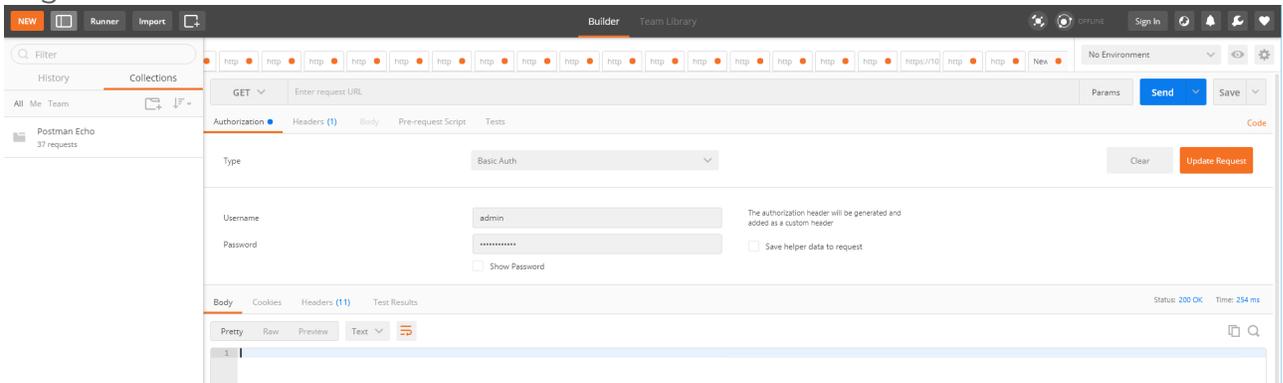


2. Get the Service Reference ID. **GET** `https://<NSX_Manager_IP>/policy/api/v1/infra/service-references/`
3. Delete the Service Reference. **DELETE** `https://<NSX_Manager_IP>/policy/api/v1/infra/service-references/<Service_Reference_ID>`

Remove Service Manager

To remove Service Manager through NSX-T API:

1. Log in to Postman.

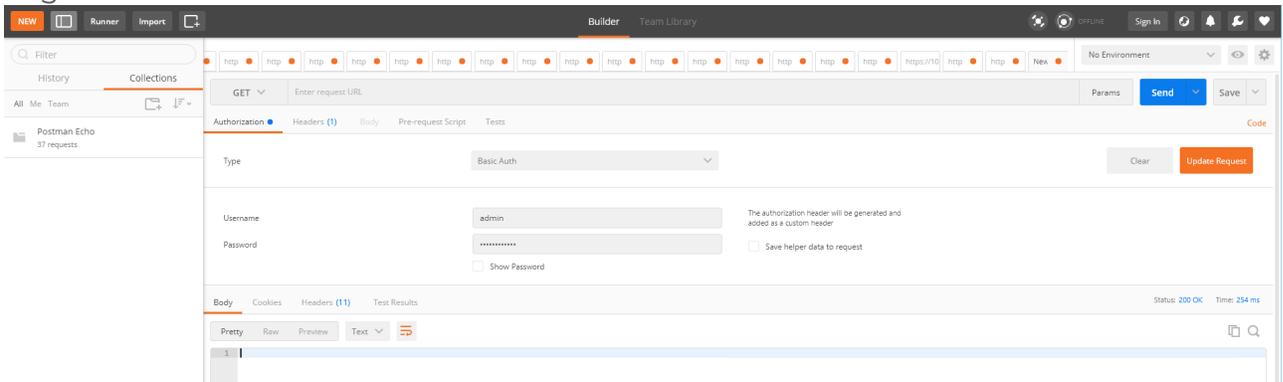


2. Get the Service Manager ID.**GET** `https://<NSX_Manager_IP>/api/v1/serviceinsertion/service-managers/`
3. Delete the Service Manager.**DELETE** `https://<NSX_Manager_IP>/api/v1/serviceinsertion/service-managers/<Service_Manager_ID>`

Remove Vendor Template and Service Definition

To remove Vendor Template and Service Definition through NSX-T API:

1. Log in to Postman.



2. Get the Service ID.**GET** `https://<NSX_Manager_IP>/api/v1/serviceinsertion/services/`
3. Get the Vendor Templates' ID.**GET** `https://<NSX_Manager_IP>/api/v1/serviceinsertion/services/<Service_ID>/vendor-templates/`
4. Delete the Vendor Templates.**DELETE** `https://<NSX_Manager_IP>/api/v1/serviceinsertion/services/<Service_ID>/vendor-templates/<Vendor_Template_ID>`
5. Delete the Service.**DELETE** `https://<NSX_Manager_IP>/api/v1/serviceinsertion/services/<Service_ID>`

FAQs - Secure Communication between GigaVUE Fabric Components (VMware-VSeries-NSX-T)

This section addresses frequently asked questions about Secure Communication between GigaVUE Fabric Components and GigaVUE-FM. Refer to Secure Communication between GigaVUE Fabric Components section for more details.

1. Is there a change in the upgrade process for GigaVUE-FM and GigaVUE V Series Node?

No. The upgrade process remains unchanged across all supported upgrade paths. You can upgrade your nodes without any additional steps. The upgrade results in the automatic deployment of the appropriate certificates based on the node versions

| GigaVUE-FM | GigaVUE V Series Nodes | Custom Certificates Selected (Y/N) | Actual Node Certificate |
|------------|------------------------|------------------------------------|-----------------------------------|
| 6.10 | 6.10 | Y | GigaVUE-FM PKI Signed Certificate |
| 6.10 | 6.9 or earlier | Y | Custom Certificate |
| 6.10 | 6.9 or earlier | N | Self-Signed Certificate |

2. What is the new authentication type used between GigaVUE-FM and the GigaVUE Fabric Components? Is backward compatibility supported?

Backward compatibility is supported, ensuring that fabric components running on version 6.9 or earlier remain compatible with GigaVUE-FM 6.10. The following authentication types are supported across different versions:

| GigaVUE-FM | GigaVUE Fabric Components | Authentication |
|------------|---------------------------|---|
| 6.10 | 6.10 | Tokens + mTLS Authentication (Secure Communication) |
| 6.10 | 6.9 or earlier | User Name and Password |

3. What are the new ports that must be added to the security groups?

The following table lists the port numbers that must be opened for the respective fabric components:

| Component | Port |
|------------------------|--|
| GigaVUE-FM | 9600 |
| GigaVUE V Series Node | 80, 8892 |
| GigaVUE V Series Proxy | 8300, 80, 8892 |
| UCT-V Controller | 8300, 80 |
| UCT-V | 8301, 8892, 9902 For more details, refer to Network Firewall Requirements . |

4. Is the registration process different for deploying the fabric components using Third-Party Orchestration?

Yes. Beginning with version 6.10, you must use tokens in the gigamon-cloud.conf file instead of the username and password. To generate the token in GigaVUE-FM, go to **Settings > Authentication > User Management > Token**. For more details, refer to [Configure Tokens](#).

Example Registration Data for UCT-V:

```
#cloud-config
write_files:
- path: /etc/gigamon-cloud.conf
  owner: root:root
  permissions: '0644'
  content: |
    Registration:
      groupName: <Monitoring Domain Name>
      subGroupName: <Connection Name>
      token: <Token>
      remoteIP: <IP address of the UCT-V Controller 1, <IP address of the UCT-V Controller
2>
      sourceIP: <IP address of UCT-V> (Optional Field)
```

5. Are there any changes to the UCT-V manual installation and upgrade process?

Starting from version 6.10, you must add tokens during manual installation and upgrades.

- Create a configuration file named `gigamon-cloud.conf` with the token and place it in the `/tmp` directory during UCT-V installation
- After installing UCT-V, you can add the configuration file in the `/etc` directory.

Important! Without this token, UCT-V cannot register with GigaVUE-FM.

6. Can I use my PKI infrastructure to issue certificates for the Fabric Components?

Direct integration of your PKI with GigaVUE-FM is not supported. However, you can provide your Intermediate Certificate Authority (CA) to sign the node certificate.

7. What happens to the existing custom certificates introduced in the 6.3 release?

The custom certificate feature is not supported for the fabric components with version 6.10 or higher, even if a custom certificate is selected in the Monitoring Domain. However, this feature remains available for older versions.

- When upgrading from version 6.9 or earlier with custom certificates upgrades to version 6.10, the system automatically generates and deploys certificates signed by GigaVUE-FM.
- If deploying version 6.9 or earlier components from a 6.10 GigaVUE-FM, custom certificates are still applied.

8. How to issue certificates after upgrading the fabric components to 6.10?

When the upgrade process begins, GigaVUE-FM transmits the certificate specifications to the new fabric components using the launch script. The fabric components utilize these specifications to generate their own certificates.

9. Is secure communication supported in FMHA deployment?

Yes, it is supported. However, you must follow a few manual steps before upgrading the fabric components to 6.10. For details, refer to [Configure Secure Communication between Fabric Components in FMHA](#).

NOTE: This step is essential if you are using cloud deployments in FMHA mode and would like to deploy or upgrade the fabric components to version 6.10 or later.

Debuggability and Troubleshooting

Use the following information to help diagnose and resolve GigaVUE V Series Nodes issues.

Sysdumps

A sysdump is a log and system data package generated when a GigaVUE V Series Node experiences a crash (such as kernel, application, or hardware failure). These files are essential for debugging.

You cannot download sysdump files if the associated fabric component is deleted or unreachable.

Sysdumps—Rules and Notes

Consider the following points before you generate sysdumps:

- You can generate only one sysdump file at a time for a GigaVUE V Series Node.
- You cannot generate a sysdump file when generation of another sysdump file is in progress.
- The limit of sysdump files available per GigaVUE V Series Node is six. When you generate a seventh sysdump file, the file overwrites the first sysdump file.
- You can download only one sysdump file per GigaVUE V Series Node at a time.
- You can delete sysdump files in bulk for a GigaVUE V Series Node.
- To ensure efficient usage, the system limits the number of simultaneous sysdump generation requests to 10 GigaVUE V Series Nodes.
- GigaVUE V Series Node sysdumps are not stored in Fabric Manager but generated and stored on the GigaVUE V Series Node itself.

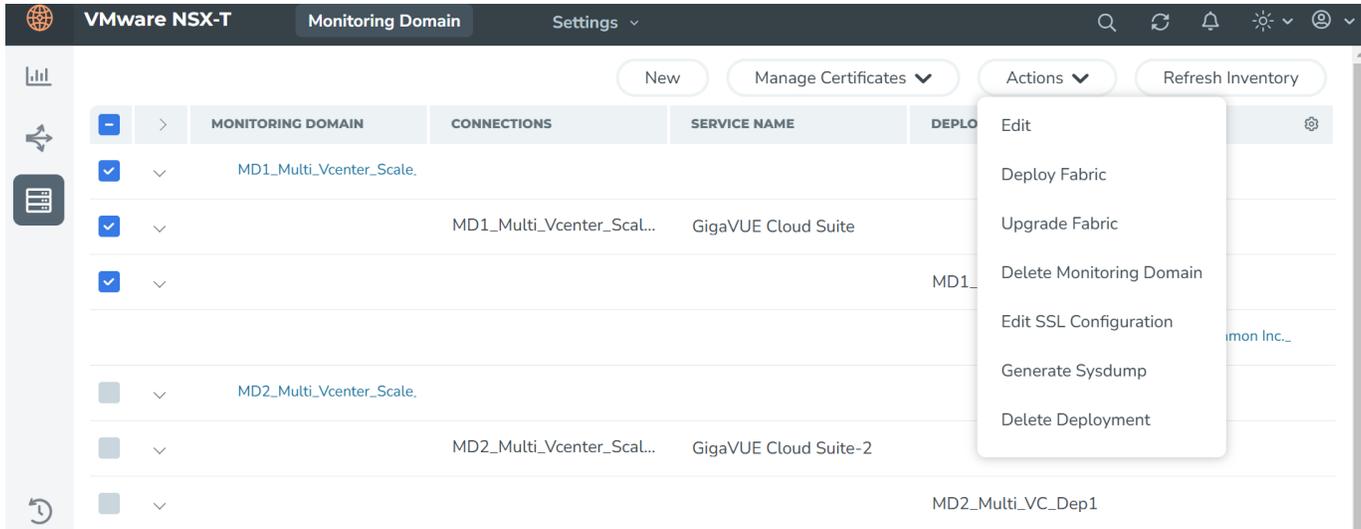
Generate a Sysdump File

To generate a sysdumps file:

1. Perform one of the following:
 - Go to **Inventory > VIRTUAL > VMware NSX-T > Monitoring Domain**.
 - Go to **Inventory > VIRTUAL > VMware ESXi > Monitoring Domain**.
 - Go to **Inventory > VIRTUAL > Third Party Orchestration > Monitoring Domain**.
 - Go to **Inventory > VIRTUAL > Nutanix > Monitoring Domain**.

The **Monitoring Domain** page appears.

2. Select the required node, and use one of the following options to generate a sysdump file:
 - Select **Actions > Generate Sysdump**.
 - In the lower pane, go to **Sysdump**, and select **Actions > Generate Sysdump**.
3. View the latest status, click **Refresh**.



Other Actions

- To download a sysdump file, select the file in the lower pane, and then click **Actions > Download**.
- To delete a sysdump file,
 1. Select the file in the lower pane.
 2. Select the desired sysdump file.
 3. Select **Actions > Delete**.
- To bulk delete, select all the sysdump files, and then select **Actions > Delete All**.

Additional Sources of Information

This appendix provides additional sources of information. Refer to the following sections for details:

- [Documentation](#)
- [Documentation Feedback](#)
- [Contact Technical Support](#)
- [Contact Sales](#)
- [The VUE Community](#)

Documentation

©This table lists all the guides provided for GigaVUE Cloud Suite software and hardware. The first row provides an All-Documents Zip file that contains all the guides in the set for the release.

NOTE: In the online documentation, view [What's New](#) to access quick links to topics for each of the new features in this Release; view [Documentation Downloads](#) to download all PDFs.

Table 1: Documentation Set for Gigamon Products

| GigaVUE Cloud Suite 6.13 Hardware and Software Guides | |
|---|---|
| DID YOU KNOW? | If you keep all PDFs for a release in common folder, you can easily search across the doc set by opening one of the files in Acrobat and choosing Edit > Advanced Search from the menu. This opens an interface that allows you to select a directory and search across all PDFs in a folder. |
| Hardware | how to unpack, assemble, rackmount, connect, and initially configure ports the respective GigaVUE Cloud Suite devices; reference information and specifications for the respective GigaVUE Cloud Suite devices |
| | GigaVUE-HC1 Hardware Installation Guide |
| | GigaVUE-HC3 Hardware Installation Guide |
| | GigaVUE-HC1-Plus Hardware Installation Guide |
| | GigaVUE-HCT Hardware Installation Guide |
| | GigaVUE-TA25 Hardware Installation Guide |
| | GigaVUE-TA25E Hardware Installation Guide |
| | GigaVUE-TA100 Hardware Installation Guide |

GigaVUE Cloud Suite 6.13 Hardware and Software Guides

GigaVUE-TA200 Hardware Installation Guide

GigaVUE-TA200E Hardware Installation Guide

GigaVUE-TA400 Hardware Installation Guide

GigaVUE-TA400E Hardware Installation Guide

GigaVUE-OS Installation Guide for DELL S4112F-ON

G-TAP A Series 2 Installation Guide

GigaVUE M Series Hardware Installation Guide

GigaVUE-FM Hardware Appliances Guide

Software Installation and Upgrade Guides

GigaVUE-FM Installation, Migration, and Upgrade Guide

GigaVUE-OS Upgrade Guide

GigaVUE V Series Migration Guide

Fabric Management and Administration Guides

GigaVUE Administration Guide

covers both GigaVUE-OS and GigaVUE-FM

GigaVUE Fabric Management Guide

how to install, deploy, and operate GigaVUE-FM; how to configure GigaSMART operations; covers both GigaVUE-FM and GigaVUE-OS features

GigaVUE Application Intelligence Solutions Guide

GigaVUE Inline Solutions Guide (**NEW**) (previously included in the **GigaVUE Fabric Management Guide**)

Cloud Guides

how to configure the GigaVUE Cloud Suite components and set up traffic monitoring sessions for the cloud platforms

GigaVUE V Series Applications Guide

GigaVUE Cloud Suite Deployment Guide - AWS

GigaVUE Cloud Suite Deployment Guide - Azure

GigaVUE Cloud Suite Deployment Guide - OpenStack

GigaVUE Cloud Suite Deployment Guide - Nutanix

GigaVUE Cloud Suite Deployment Guide - VMware (ESXi)

GigaVUE Cloud Suite Deployment Guide - VMware (NSX-T)

GigaVUE Cloud Suite 6.13 Hardware and Software Guides

GigaVUE Cloud Suite Deployment Guide - Third Party Orchestration

Universal Cloud TAP - Container Deployment Guide

Gigamon Containerized Broker Deployment Guide

GigaVUE Cloud Suite Deployment Guide - AWS Secret Regions

GigaVUE Cloud Suite Deployment Guide - Azure Secret Regions

Reference Guides

GigaVUE-OS CLI Reference Guide

library of GigaVUE-OS CLI (Command Line Interface) commands used to configure and operate GigaVUE HC Series and GigaVUE TA Series devices

GigaVUE-OS Security Hardening Guide

GigaVUE Firewall and Security Guide

GigaVUE Licensing Guide

GigaVUE-OS Cabling Quick Reference Guide

guidelines for the different types of cables used to connect Gigamon devices

GigaVUE-OS Compatibility and Interoperability Matrix

compatibility information and interoperability requirements for Gigamon devices

GigaVUE-FM REST API Reference in GigaVUE-FM User's Guide

samples uses of the GigaVUE-FM Application Program Interfaces (APIs)

Factory Reset Guidelines for GigaVUE-FM and GigaVUE-OS Devices

Sanitization guidelines for GigaVUE Fabric Management Guide and GigaVUE-OS devices.

Release Notes

GigaVUE-OS, GigaVUE-FM, GigaVUE-VM, G-TAP A Series, and GigaVUE Cloud Suite Release Notes

new features, resolved issues, and known issues in this release ;
important notes regarding installing and upgrading to this release

Note: Release Notes are not included in the online documentation.

Note: Registered Customers can log in to [My Gigamon](#) to download the Software and Release Notes from the Software and Docs page on to [My Gigamon](#). Refer to [How to Download Software and Release Notes from My Gigamon](#).

In-Product Help

GigaVUE-FM Online Help

how to install, deploy, and operate GigaVUE-FM.

How to Download Software and Release Notes from My Gigamon

Registered Customers can download software and corresponding Release Notes documents from the **Software & Release Notes** page on to [My Gigamon](#). Use the My Gigamon Software & Docs page to download:

- Gigamon Software installation and upgrade images,
- Release Notes for Gigamon Software, or
- Older versions of PDFs (pre-v5.7).

To download release-specific software, release notes, or older PDFs:

1. Log in to [My Gigamon](#).
2. Click on the **Software & Release Notes** link.
3. Use the **Product** and **Release** filters to find documentation for the current release. For example, select Product: "GigaVUE-FM" and Release: "5.6," enter "pdf" in the search box, and then click **GO** to view all PDF documentation for GigaVUE-FM 5.6.xx.

NOTE: My Gigamon is available to registered customers only. Newer documentation PDFs, with the exception of release notes, are all available through the publicly available online documentation.

Documentation Feedback

We are continuously improving our documentation to make it more accessible while maintaining accuracy and ease of use. Your feedback helps us to improve. To provide feedback and report issues in our documentation, send an email to:

documentationfeedback@gigamon.com

Please provide the following information in the email to help us identify and resolve the issue. Copy and paste this form into your email, complete it as able, and send. We will respond as soon as possible.

| Documentation Feedback Form | | |
|-----------------------------|---------------------|--|
| About You | Your Name | |
| | Your Role | |
| | Your Company | |
| | | |

| | | |
|----------------------------|--|--|
| For Online Topics | Online doc link | <i>(URL for where the issue is)</i> |
| | Topic Heading | <i>(if it's a long topic, please provide the heading of the section where the issue is)</i> |
| For PDF Topics | Document Title | <i>(shown on the cover page or in page header)</i> |
| | Product Version | <i>(shown on the cover page)</i> |
| | Document Version | <i>(shown on the cover page)</i> |
| | Chapter Heading | <i>(shown in footer)</i> |
| | PDF page # | <i>(shown in footer)</i> |
| How can we improve? | Describe the issue | <i>Describe the error or issue in the documentation. (If it helps, attach an image to show the issue.)</i> |
| | How can we improve the content? Be as specific as possible. | |
| | Any other comments? | |

Contact Technical Support

For information about Technical Support: Go to **Settings**  > **Support** > **Contact Support** in GigaVUE-FM.

You can also refer to <https://www.gigamon.com/support-and-services/contact-support> for Technical Support hours and contact information.

Email Technical Support at support@gigamon.com.

Contact Sales

Use the following information to contact Gigamon channel partner or Gigamon sales representatives.

Telephone: +1.408.831.4025

Sales: inside.sales@gigamon.com

Partners: www.gigamon.com/partners.html

Premium Support

Email Gigamon at inside.sales@gigamon.com for information on purchasing 24x7 Premium Support. Premium Support entitles you to round-the-clock phone support with a dedicated Support Engineer every day of the week.

The VÜE Community

The **VÜE Community** is a technical site where Gigamon users, partners, security and network professionals and Gigamon employees come together to share knowledge and expertise, ask questions, build their network and learn about best practices for Gigamon products.

Visit the VÜE Community site to:

- Find knowledge base articles and documentation
- Ask and answer questions and learn best practices from other members.
- Join special-interest groups to have focused collaboration around a technology, use-case, vertical market or beta release
- Take online learning lessons and tutorials to broaden your knowledge of Gigamon products.
- Open support tickets (Customers only)
- Download the latest product updates and documentation (Customers only)

The VÜE Community is a great way to get answers fast, learn from experts and collaborate directly with other members around your areas of interest.

Register today at community.gigamon.com

Questions? Contact our Community team at community@gigamon.com.

Glossary

D

decrypt list

need to decrypt (formerly blacklist)

decryptlist

need to decrypt - CLI Command (formerly blacklist)

drop list

selective forwarding - drop (formerly blacklist)

F

forward list

selective forwarding - forward (formerly whitelist)

L

leader

leader in clustering node relationship (formerly master)

M

member node

follower in clustering node relationship (formerly slave or non-master)

N

no-decrypt list

no need to decrypt (formerly whitelist)

nodecryptlist

no need to decrypt- CLI Command (formerly whitelist)

P

primary source

root timing; transmits sync info to clocks in its network segment (formerly grandmaster)

R

receiver

follower in a bidirectional clock relationship (formerly slave)

S

source

leader in a bidirectional clock relationship (formerly master)