



GigaVUE Cloud Suite for Nutanix - Deployment Guide

GigaVUE Cloud Suite

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Change Notes

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GigaVUE Cloud Suite Deployment Guide - Nutanix

This guide explains how to install, configure, and deploy GigaVUE Cloud Suite for Nutanix (GigaVUE V Series) in a Prism Central environment. You can use it to:

- Set up GigaVUE Cloud Suite Cloud components
- Configure traffic monitoring sessions for your Nutanix deployment

Topics:

- [Overview of GigaVUE Cloud Suite for Nutanix](#)
- [Points to Note \(Nutanix\)](#)
- [Prerequisites \(Nutanix\)](#)
- [License Information](#)
- [Install and Upgrade GigaVUE-FM](#)
- [Upload Fabric Images](#)
- [Deploy GigaVUE Cloud Suite for Nutanix](#)
- [Upgrade GigaVUE V Series Node in GigaVUE-FM for Nutanix](#)
- [Secure Tunnels](#)
- [Configure Monitoring Session](#)
- [Cloud Health Monitoring - Configuration Health Monitoring](#)
- [Analytics for Virtual Resources](#)
- [Administer GigaVUE Cloud Suite for Nutanix](#)

Overview of GigaVUE Cloud Suite for Nutanix

GigaVUE Cloud Suite for Nutanix provides deep visibility to:

- Enhance tool effectiveness
- Optimize performance
- Accelerate troubleshooting of private cloud environments

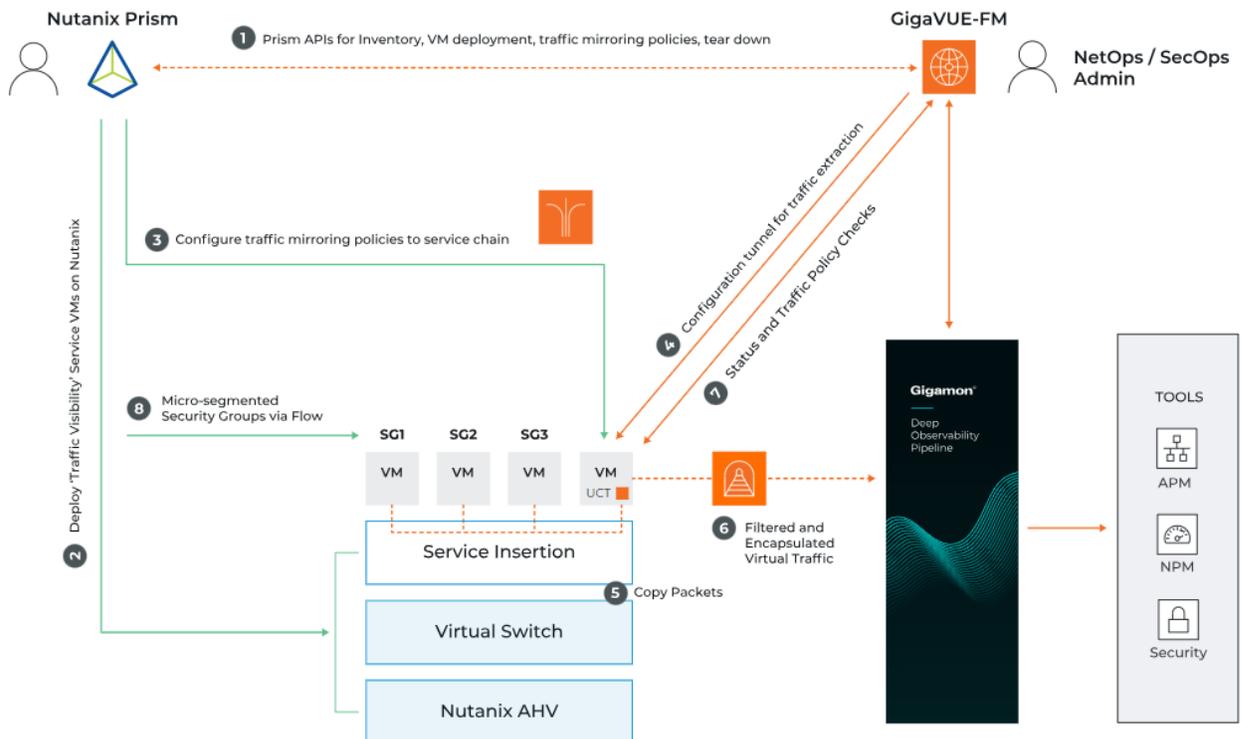
Using the Gigamon Deep Observability Pipeline, you can aggregate and optimize traffic from your Nutanix deployments. This pipeline lets you forward the right traffic to the right tools from a central location.

Nutanix Prism can instantiate GigaVUE Cloud Suite with GigaVUE Universal Cloud Tap (UCT) instances. These instances monitor and control operations. You can also direct Compute VMs to copy micro-segment traffic and send it to GigaVUE visibility nodes.

GigaVUE-FM integrates directly with the Nutanix platform. It installs the GigaVUE Cloud Suite for Nutanix components in the underlay environment. After you start the first GigaVUE Cloud Suite instance in Nutanix Prism Central, GigaVUE-FM automatically starts the rest of the VM instances.

Key Benefits

- **Better tool performance:** Sends only the right traffic to tools, improving visibility and reducing workload.
- **Easier operations:** Uses one dashboard to manage everything and automates setup tasks.



Components of GigaVUE Cloud Suite for Nutanix

GigaVUE Cloud Suite for Nutanix includes the following components:

Component	Description
GigaVUE-FM fabric manager	<p>Represents a web-based tool to help you manage physical and virtual network traffic that forms GigaVUE Cloud Suite. It gives you complete visibility and control of your entire VMware cloud suite from one dashboard.</p> <p>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.</p>
GigaVUE® V Series Node	<p>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.</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p>NOTE: You must enable basic authentication to launch the GigaVUE V Series Node version 6.9 and lower. For more instructions on the steps to enable the basic authentication, refer to Authentication Type.</p> </div>
GigaVUE® V Series Proxy	<p>An optional component that manages multiple GigaVUE V Series Nodes and orchestrates traffic flow from GigaVUE V Series Nodes to the monitoring tools. Use the GigaVUE V Series Proxy node, if GigaVUE-FM cannot directly reach the GigaVUE V Series Nodes (management interface) over the network.</p> <p>GigaVUE-FM uses one or more GigaVUE V Series Proxies to communicate with the GigaVUE V Series Nodes. You can launch a GigaVUE V Series Proxy to communicate the GigaVUE-FM network to hundreds of GigaVUE V Series Nodes in private networks behind the Proxy.</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p>NOTE: You must enable basic authentication to launch the GigaVUE V Series Proxy version 6.9 and lower. For more instructions on the steps to enable the basic authentication, refer to Authentication Type.</p> </div>

Cloud Overview Page (Nutanix)

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.

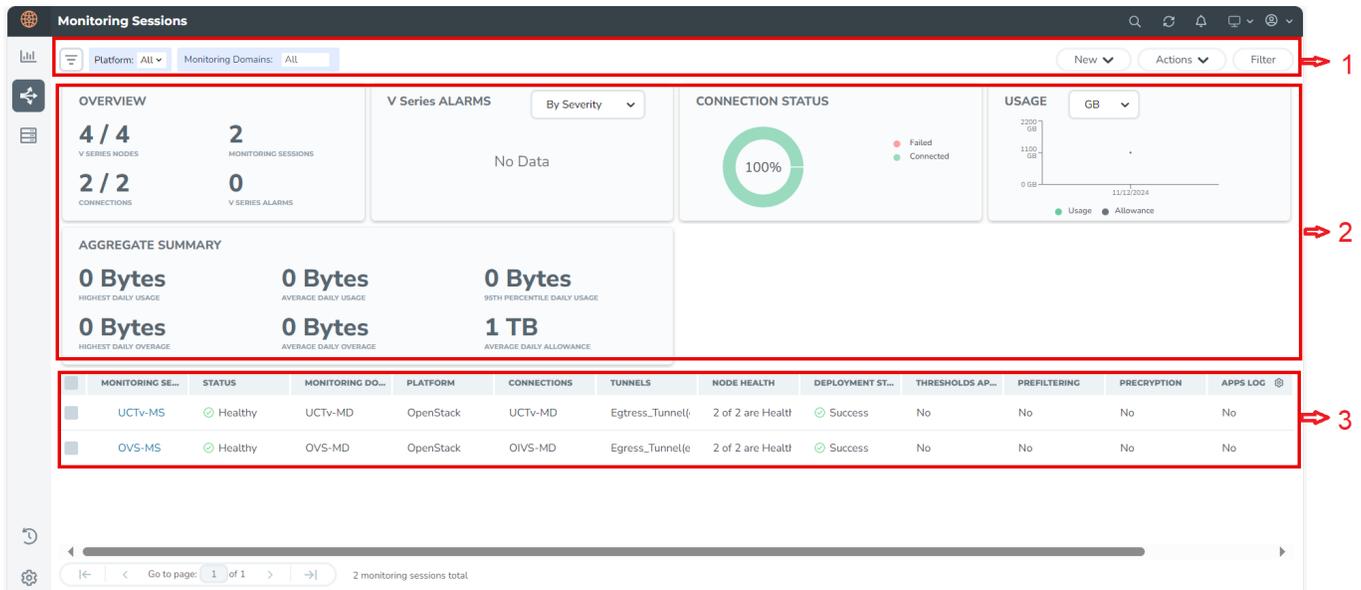
How to Access the Overview Page

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 (Nutanix) .
2	Charts	Refer to Cloud Overview Page (Nutanix) .
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 (Nutanix) 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: <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.

Options	Description
	<ul style="list-style-type: none"> • 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 (Nutanix) .

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.
Precryption	Specifies if Precryption 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.

Points to Note (Nutanix)

1. When deploying GigaVUE fabric components using GigaVUE-FM, use underlay network.
2. To ensure that the GigaVUE V Series Node is reachable, Nutanix Prism Central and Nutanix Prism Element must have the same login credentials.

Prerequisites (Nutanix)

Apply the following prerequisites before configuring GigaVUE-FM, GigaVUE V Series Node, and GigaVUE V Series Proxy in Nutanix.

- **Assign the following roles to the Nutanix admin account:**

- **Prism Central Admin** permissions on Prism Central.
- **Cluster Admin** permissions on individual clusters.

NOTE: If you manage passwords locally, use the same password across all environments. If you use external authentication (such as AD/LDAP), you don't need to create or sync local passwords manually.

- **Upload images to the Prism Central repository**

Upload the GigaVUE-FM, GigaVUE V Series Node, and GigaVUE V Series Proxy image files into the Prism Central repository.

NOTE: Do not use the Prism Element to upload the GigaVUE-FM image and fabric image files.

For more information on how to upload the image to Prism Central, refer to [Upload Fabric Images](#)

- **Enable DHCP**

Enabling DHCP is required for the management subnet and the tunnel subnet. Static IPs are not supported for the GigaVUE V Series Node and Proxy.

- **Limit for Deployment**

You can deploy only one GigaVUE V Series Node per Nutanix Node.

- **Create a subnet and a security group**

You must create a subnet and security group in Nutanix Prism Central. For more information on creating a subnet, refer to [Configuring Network Connections](#).

- **Create a user account with the same credentials**

You must create a user account with the same credentials in PRISM ELEMENT and Prism Central.

- **Enable Cluster Admin role**

You must enable the CLUSTER ADMIN role for the selected user account in the PRISM ELEMENT role configuration.

Roles/Permission required for Prism Central user account

- AHV VM
- Access Console Virtual Machine
- Allow Virtual Machine Power Off
- Allow Virtual Machine Power On
- Allow Virtual Machine Reboot
- Allow Virtual Machine Reset
- Create Virtual Machine
- Delete Virtual Machine
- Update Virtual Machine
- Update Virtual Machine Boot Config
- Update Virtual Machine Categories
- Update Virtual Machine NIC List
- Update Virtual Machine Power State
- View Virtual Machine

For more information, refer to the following topics:

- [Supported Requirements - Nutanix](#)
- [Network Firewall Requirements](#)
- [Default Login Credentials](#)

Supported Requirements - Nutanix

Refer to the following sections for details on supported compute requirements, AOS versions, and Prism Central details.

Supported Compute Requirements for Nutanix

The supported computing requirements are listed in the following table:

Compute Instances	vCPU	Memory	Disk Space	Description
GigaVUE-FM	2 vCPU	16GB	2 x 40GB	GigaVUE-FM must access the GigaVUE V Series Nodes directly or a GigaVUE V Series Proxy that relays the commands to the GigaVUE V Series Nodes.
GigaVUE V Series Node	4 vCPU	8GB	10GB	NIC 1: Monitored Network IP: also used as Tunnel IP NIC 2: Tunnel IP (optional) NIC 3: Management IP
GigaVUE V Series Proxy	1 vCPU	4GB	10GB	One GigaVUE V Series Proxy: also deployed per Cluster

Supported Prism Central Versions for Nutanix

The supported requirements for GigaVUE V Series Node are listed in the following table:

Versions	GigaVUE-FM	AOS	Prism Central	GigaVUE V Series Node	GigaVUE V Series Proxy	
Qualified Versions	6.7	6.5	pc.2022.6	6.7.00	6.7.00	
	6.8	6.5	pc.2022.6	6.8.00	6.8.00	
	6.9	6.5	pc.2024.2	6.9.00	6.9.00	
	6.10	6.10	pc.2024.3	6.10.00	6.10.00	
	6.11	6.10.1	pc.2024.3.1.1	6.11.00	6.11.00	
	6.12	6.10.1	pc.2024.3.1.1	6.12.00	6.12.00	
			7.0			7.3.1.2
			7.3			7.3.1.2
			7.3.1.2			7.3.1.2
	6.13	6.10.1	pc.2024.3.1.1	6.13.00	6.13.00	
			7.0			7.0.1.6
			7.3.1.1			7.3.1.1
			7.3.1.2			7.3.1.2

Network Firewall Requirements

Following are the Network Firewall Requirements for Gigamon fabrics for Nutanix deployments.

GigaVUE-FM

Direction	Type	Protocol	Port	CIDR	Purpose
Inbound	HTTPS	TCP	443	Anywhere Any IP	Allows GigaVUE® V Series Nodes, GigaVUE V Series Proxy, and GigaVUE-FM administrators to communicate with GigaVUE-FM
Inbound	SSH	TCP	22	Anywhere Any IP	Allows GigaVUE® V Series Nodes, GigaVUE V Series Proxy, and GigaVUE-FM administrators to communicate with GigaVUE-FM
Outbound (optional)	Custom TCP Rule	TCP	8890	GigaVUE V Series Proxy IP	Allows GigaVUE-FM to communicate with GigaVUE V Series Proxy
Outbound	Custom TCP Rule	TCP	8889	GigaVUE V Series Node IP	Allows GigaVUE-FM to communicate with GigaVUE V Series Node
Outbound	Custom TCP Rule	TCP	9440	Prism Central IP, Prism Element IP	Allows GigaVUE-FM to communicate with Prism Central and Prism Element.

GigaVUE V Series Node

Direction	Type	Protocol	Port	CIDR	Purpose
Inbound	Custom TCP Rule	TCP	9903	GigaVUE V Series Proxy IP	Allows GigaVUE V Series Proxy to communicate with GigaVUE® V Series Nodes
Inbound	UDP	UDPGRE	4754	Ingress Tunnel	Allows to UDPGRE tunnel to communicate and tunnel traffic to GigaVUE V Series Nodes

Direction	Type	Protocol	Port	CIDR	Purpose
Outbound	Custom TCP Rule	TCP	5671	GigaVUE-FM IP	Allows GigaVUE® V Series Node to communicate and tunnel traffic to the Tool
Outbound	Custom UDP Rule	<ul style="list-style-type: none"> UDP (VXLAN) IP Protocol (L2GRE) 	<ul style="list-style-type: none"> VXLAN (default 4789) L2GRE (IP 47) 	Tool IP	Allows GigaVUE® V Series Node to communicate and tunnel traffic to the Tool
Outbound (optional)	Custom ICMP Rule	ICMP	<ul style="list-style-type: none"> echo request echo reply 	Tool IP	Allows GigaVUE® V Series Node to health check the tunnel destination traffic.

GigaVUE V Series Proxy (optional)

Direction	Type	Protocol	Port	CIDR	Purpose
Inbound	Custom TCP Rule	TCP	8890	GigaVUE-FM IP	Allows GigaVUE-FM to communicate with GigaVUE V Series Proxy
Outbound	Custom TCP Rule	TCP	8889	GigaVUE V Series Node IP	Allows GigaVUE-FM to communicate with GigaVUE V Series Node

Default Login Credentials

Using the default credentials, you can log in to the GigaVUE V Series Node and GigaVUE V Series Proxy.

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

License Information

GigaVUE Cloud Suite for Nutanix supports Volume Based License (VBL) model.

For details, refer to the following topics:

- [Default Trial Licenses](#)
- [Volume Based License \(VBL\)](#)
- [Activate Volume-Based Licenses](#)
- [Manage Volume-Based Licenses](#)

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.

Volume Based License (VBL)

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	-	-	√
Pre-cryption	-	-	√
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.

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

Install and Upgrade GigaVUE-FM

You can install and upgrade GigaVUE-FM on cloud platforms or in your on-premises data center.

- **Cloud:** To install GigaVUE-FM in Nutanix Prism Central Platform, upload the recent GigaVUE-FM image file to the Prism Central. For the GigaVUE-FM installation procedures, refer to [Install GigaVUE-FM on Nutanix](#).
- **On-premises:** To install and upgrade GigaVUE-FM in your enterprise data center, refer to [GigaVUE-FM Installation and Upgrade Guide](#) available in the [Gigamon Documentation Library](#).

Upload Fabric Images

Download the latest GigaVUE V Series Node and GigaVUE-FM image file from [Gigamon Customer Portal](#).

After downloading, upload the fabric images to Prism Central.

When uploading fabric images

- Select all the available clusters as placements.
- Make sure to upload the appropriate Nutanix image file.

When the upload is complete, you can view the images on the Nutanix console under **Virtual Infrastructure > Images**.

Deploy GigaVUE Cloud Suite for Nutanix

This section describes how to connect, launch, and deploy fabric components of GigaVUE Cloud Suite for Nutanix.

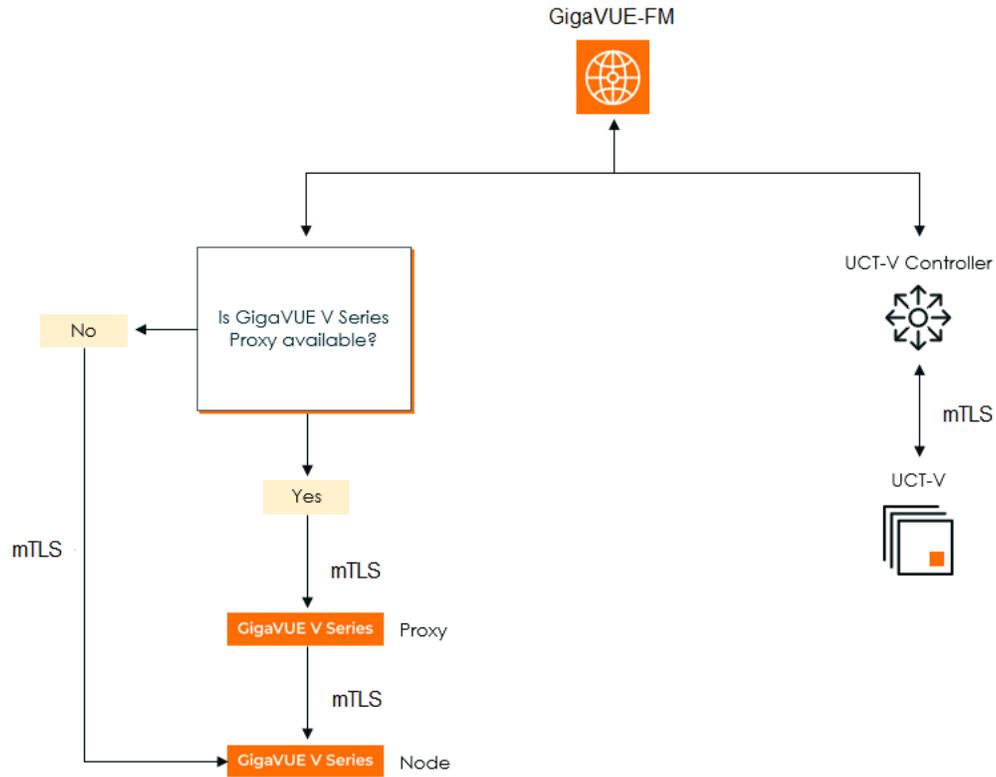
Refer to the following sections for details:

- [Integrate Private CA](#)
- [Adding Certificate Authority](#)
- [Create a Monitoring Domain](#)
- [Configure GigaVUE Cloud Suite Fabric Components in GigaVUE-FM](#)
- [Configure Monitoring Session](#)

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](#)

- 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.

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.

Adding Certificate Authority

This section describes how to add Certificate Authority in GigaVUE-FM.

The CA Certificate chain List page allows you to add the root CA for the devices.

To upload the CA Certificate chain using GigaVUE-FM, follow these steps:

1. Go to **Inventory > Resources > Security > CA List**.
2. Select **Add**, to add a new Custom Authority.
The **Add Certificate Authority** page appears.
3. In the **Alias** field, enter the alias name of the CA Certificate chain Authority

4. Use one of the following options to enter the CA Certificate chain Authority:
 - **Copy and Paste:** In the **Certificate** field, enter the certificate.
 - **Install from URL:** In the **Path** field, enter the URL in the format: <protocol>://<username>@<hostname/IP address>/<file path>/<file name>. In the **Password** field, enter the password.
 - **Install from Local Directory:** Select **Choose File** to browse and select a certificate from the local directory.
5. Select **Save**.

Create a Monitoring Domain

GigaVUE-FM provides you the flexibility to connect to multiple clusters.

NOTE: Only a user with **Admin** role or a user with write access to the **Cluster Management** category can configure the monitoring domain and launch the fabric components in Nutanix Prism.

To create a Monitoring Domain:

1. Go to **Inventory > Virtual > Nutanix** and then select **Monitoring Domain**.
2. On the Monitoring Domain page, click the **New** button. The Monitoring Domain Configuration page appears.

3. Enter or select the appropriate information:
 - a. **Monitoring Domain:** Enter a monitoring domain name.
 - b. **Connection Alias:** An alias used to identify the monitoring domain.
 - c. **Use Legacy V Series Mode:** By default, V Series 2 is enabled. Enable this option, if you want to use the legacy V Series Mode.
 - d. **Nutanix Prism Central IP:** Enter the Nutanix Prism Central IP address.

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 the Trust Store section in GigaVUE Administration Guide.
 - e. **Nutanix Prism Central Username:** Enter the username.
 - f. **Nutanix Prism Central Password:** Enter the password.
 - g. **Cluster:** Select the cluster where the GigaVUE V Series Proxy and GigaVUE® V Series Node are to be deployed.
 - h. **Traffic Acquisition tunnel MTU:** Enter the Tunnel MTU size.
4. Select **Save**.

The **Nutanix Fabric Launch Configuration** page appears.



Notes:

- Ensure that all V Series Nodes within a single Monitoring Domain are running 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.

You can perform the following actions in the Monitoring domain page:

Action	Description
Edit Monitoring Domain	Use to edit a monitoring domain.
Edit Fabric	Use to edit a GigaVUE V Series Nodes.
Upgrade Fabric	Use to upgrade GigaVUE V Series Nodes. For details, refer to Upgrade GigaVUE V Series Node in GigaVUE-FM for ESXi .
Delete Monitoring Domain	Use to delete a Monitoring Domain.
Delete Fabric	Use to delete a GigaVUE V Series Node.
Edit SSL Configuration	Use to add Certificate Authority and the SSL Keys when using the Secure

Action	Description
	Tunnels.
Generate Sysdump	Select this option to generate the System dump files.the process manage automatically generate Sysdump when there is a crash. You can use these Sysdump files to troubleshoot the system.
Manage Certificates	You can use this button to perform the following actions: <ul style="list-style-type: none"> • Re-issue- You can resissue Certificates to address security compromises, key changes, or configuration updates, like validity period adjustments. • Renew- Renewing a certificate just extends its expiration date 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.

To view and manage the generated sysdump files, select the GigaVUE V Series Node and select the **Sysdump** tab in the lower pane.

To view the certificates associated with the fabric, select the fabric nodes and select the **Certificates** tab in the lower pane.

Configure GigaVUE Cloud Suite Fabric Components in GigaVUE-FM

Establishing a connection between GigaVUE-FM and your Prism environment is mandatory before you configure GigaVUE® V Series Node and GigaVUE V Series Proxy. After a connection is established, you can use GigaVUE-FM to specify a launch configuration for the GigaVUE® V Series Nodes.

Nutanix Fabric Launch Configuration

GigaVUE-FM launches the fabric images (GigaVUE V Series Proxy and GigaVUE® V Series Node) based on the configuration available in the **Nutanix Fabric Launch Configuration** page.

GigaVUE V Series Proxy manages multiple GigaVUE® V Series Node and orchestrates the flow of traffic from GigaVUE V Series Nodes to the monitoring tools.

To configure the Nutanix Fabric Images in GigaVUE-FM,

1. [Create a Monitoring Domain](#) in GigaVUE-FM.

The Nutanix Fabric Launch Configuration page appears.

2. On the **Nutanix Fabric Launch Configuration** page, enter or select the following information.

Field	Description
Cluster	Select the cluster to deploy the GigaVUE V Series Proxy and GigaVUE V Series Node.
Enable Custom Certificates	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. Note: If the certificate expires after the successful deployment of the fabric components, then the fabric components moves to failed state.
Certificate	Select the custom certificate from the drop-down menu. You can also upload the custom certificate for GigaVUE V Series Nodes, GigaVUE V Series Proxy, and UCT-V Controllers.
Configure a V Series Proxy (Optional)	Select this option to configure a V Series Proxy.
GigaVUE® V Series Node	<ul style="list-style-type: none"> • Hosts: Select a node or multiple nodes from the selected Cluster. • Version: Select a GigaVUE® V Series Node image file. Refer to Upload Fabric Images for more information. • Management Subnet: The subnets registered in Prism Central are listed. Select a management subnet as specified in the Prerequisites (Nutanix). • Data Subnets: Select the subnet(s) based on the required VMs and vNICs. Click Add Subnet to add additional Subnets. • Memory Size (GB): Enter the memory size of the vCPU(s) • Disk Size (GB): Enter the image size of the GigaVUE® V Series Node. • Number of vCPUs: Enter the number of vCPUs required. • Cloud-init User Data (Optional): Enter cloud-init user data (YAML, JSON, or Shell script)

NOTE: GigaVUE V Series Nodes do not support assigning a Static IP address. You must enable DHCP for the management subnet and tunnel subnet.

3. Perform one of the following:
 - Select **Save & Configure Next Cluster** to configure the next Cluster.
 - Select **Save & Exit** to initiate the deployment of the selected fabric images.

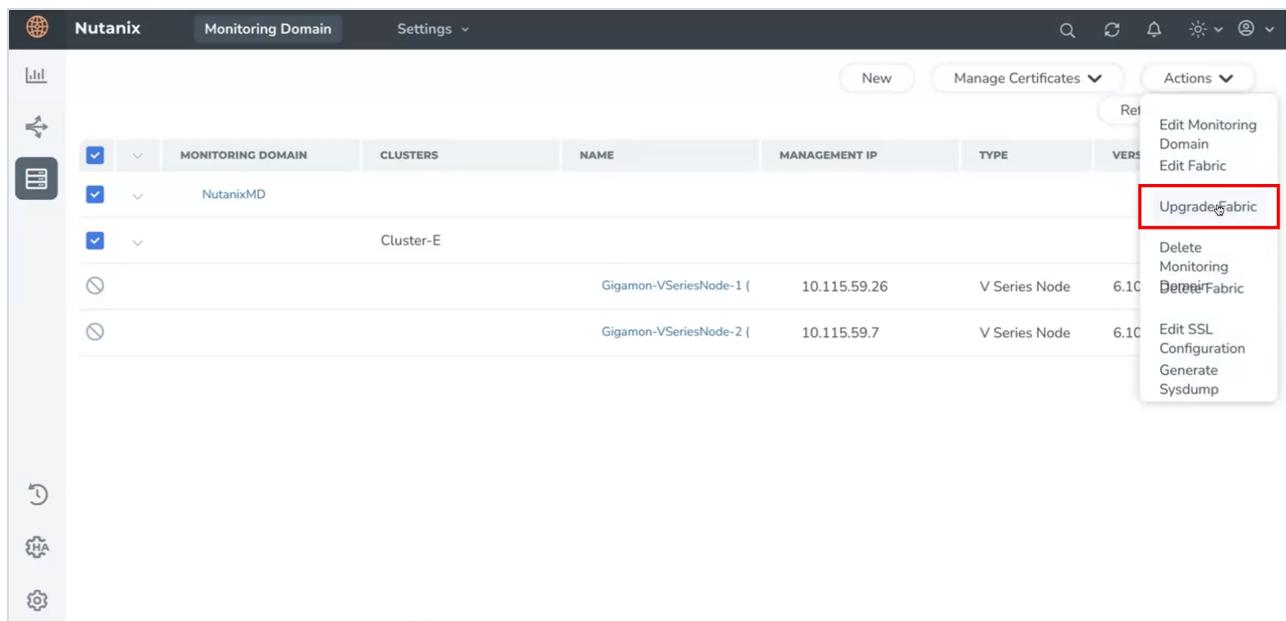
You can view the status of the deployment on the Tasks page of Prism Central.

To view the fabric launch configuration specification of a fabric component, select a V Series node. A quick view of the Fabric Launch Configuration appears on the Monitoring Domain page.

Upgrade GigaVUE V Series Node in GigaVUE-FM for Nutanix

This section describes how to upgrade the GigaVUE V Series Node and GigaVUE V Series proxy :

1. Go to **Inventory > VIRTUAL > Nutanix**. The **Monitoring Domain** page appears.
2. On the Monitoring Domain page, select the Monitoring Domain check box for the Monitoring Domain with the GigaVUE V Series Node you want to upgrade.
3. Click **Actions > Upgrade Fabric**.

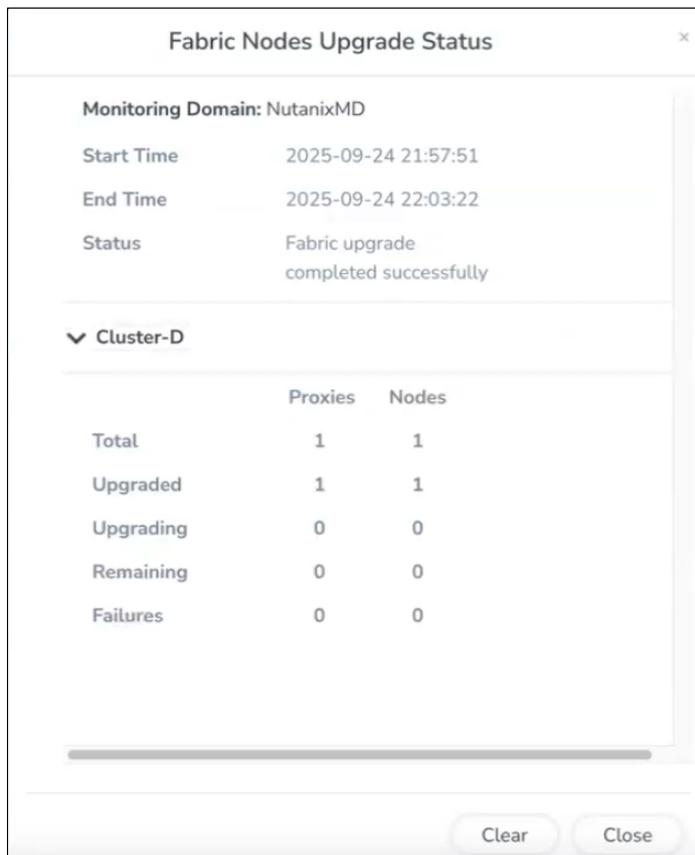


4. In the Upgrade Fabric dialog, if multiple clusters exist, different images can be selected per cluster. While upgrading a cluster, make sure the proxy (if deployed) is also upgraded, to maintain compatibility.
 - a. The **Monitoring Domain** and Cluster(s) will be auto-populated.
 - b. Select a new image version (must be higher than the current version).
 - c. Optionally, update memory, disk size, and vCPU settings.
 - d. If a proxy exists in the cluster, select the proxy option check box.

The screenshot shows the 'Upgrade Fabric' dialog box. The title bar reads 'Upgrade Fabric'. Inside, there is a section for 'Cluster-D'. A red box highlights the 'Upgrade Proxy' checkbox, which is checked. Below this, there is a 'V Series Node' section with four input fields: 'Current Version' (6.12.00), 'Image*' (gigamon-gigavue-vseries-node-6.12.00-543571...), and 'Memory Size (GB)*' (8). At the bottom right, there are 'Cancel' and 'Upgrade' buttons.

5. Click **Upgrade**. A status page will show upgrade progress and results. A link appears in the Status column labeled Upgrade in Progress.
 - a. Once the upgrade is finished, the status changes to Upgrade Successful.
 - b. If the upgrade fails, the status reflects the failure details.

- The **Clear** option appears on the status screen only after the upgrade is successful, and clicking it removes the status link from the UI.



For instruction, refer to [Configure GigaVUE Cloud Suite Fabric Components in GigaVUE-FM](#). The GigaVUE V Series Nodes are successfully upgraded.

NOTE: If the upgrade fails, GigaVUE-FM will remove the new nodes and try to power on the original ones with their previous settings.

Secure Tunnels

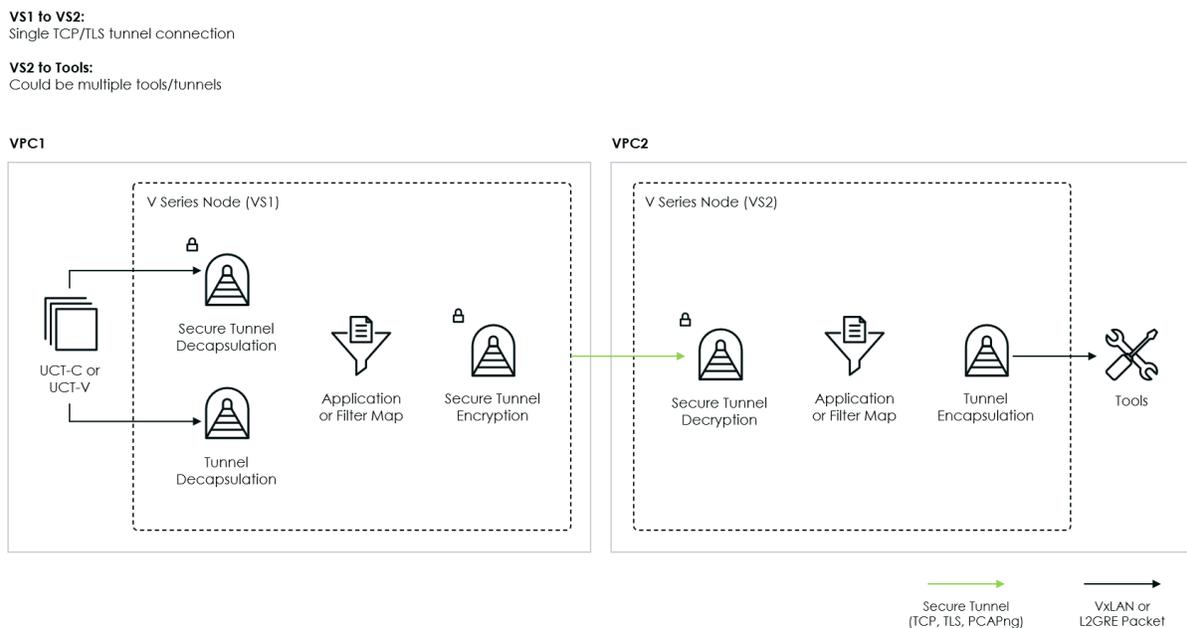
Secure Tunnel transfers the cloud captured packets from one GigaVUE V Series Node to another.

When sending traffic between two V Series Nodes, the source node captures and encapsulates the packets in PCAPng format. It then sends them to the destination V Series Node that decapsulates and processes the traffic based on your configuration.

How Does it Work!

- Forward packets from one V Series Node to another for further analysis.
- Apply processing features such as de-duplication, application intelligence, or load balancing.
- Use the built-in load balancer to distribute traffic across multiple V Series Nodes.
- If the load balancer sends packets to another node, it can re-encapsulate them and send them over another secure tunnel.

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



Supported Platforms

Secure tunnel is supported on:

- OpenStack
- Azure
- AWS
- VMware NSX-T (only for Third Party Orchestration)
- VMware ESXi (only for Third Party Orchestration)
- Nutanix (only for Third Party Orchestration)
- Google Cloud Platform (only for Third Party Orchestration)

For more information, refer to [Configure Secure Tunnel \(Nutanix\)](#).

Configure Secure Tunnel (Nutanix)

Follow the instructions in this topic to configure secure tunnels for GigaVUE Cloud Suite for Nutanix.

Prerequisites

- An SSH key pair
- A CA certificate

Notes

- The secure tunnel supports Protocol version IPv4 and IPv6.
- For IPv6 tunnels, ensure GigaVUE-FM and the fabric components run version 6.6.00 or above.
- For UCT-V agents with version lower than 6.6.00, if secure tunnel is enabled in the monitoring session, secure tunnel traffic uses IPv4, even if IPv6 is preferred.

Configure Secure Tunnel from GigaVUE V Series Node 1 to GigaVUE V Series Node 2

You can create secure tunnel in the following ways:

- Between GigaVUE V Series 1 to GigaVUE V Series Node 2
- From GigaVUE V Series Node 1 to multiple GigaVUE V Series nodes.

Prerequisite

Before you start the configuration of secure tunnel from GigaVUE V Series Node 1 to GigaVUE V Series Node 2, make sure you have the following:

- IP address of the tunnel destination endpoint (GigaVUE V Series Node 2).
- SSH key pair (pem file).

To configure secure tunnel from (GigaVUE V Series Node 1 to (GigaVUE V Series Node 2, perform the following steps:

1. Upload a Certificate Authority (CA) Certificate

You must upload a Custom Certificate to UCT-V Controller for establishing a connection between the GigaVUE V Series Node.

To upload the CA using GigaVUE-FM,

- a. Go to **Inventory > Resources > Security > CA List**.
- b. Select **Add**.

The Add Certificate Authority page appears.

- c. Enter or select the following information:

Field	Action
Alias	Alias name of the CA.
File Upload	Choose the certificate from the desired location.

- d. Select **Save**.
- e. Select **Deploy All**.

For more information, refer to [Adding Certificate Authority](#)

2. Upload an SSL Key

You must add an SSL key to GigaVUE V Series node. To add SSL Key, follow the steps in the *Upload SSL Keys* section of GigaVUE V Series Applications Guide.

3. Create a secure tunnel between UCT-V and GigaVUE V Series Node 1

To enable the secure tunnel feature,

- a. In the **Edit Monitoring Session** page, select **Options**.

The **Apply template** page appears.

- b. Enable the **Secure Tunnel** button.

You can enable secure tunnel for both mirrored and precrypted traffic.

4. Select the added SSL Key while creating a monitoring domain

Select the added SSL Key while creating a monitoring domain and configuring the fabric components in GigaVUE-FM in GigaVUE V Series Node 1.

You must select the added SSL Key in GigaVUE V Series Node 1.

To select the SSL key, follow the steps in [Configure GigaVUE Cloud Suite Fabric Components in GigaVUE-FM](#).

5. Select the added CA certificate while creating the monitoring domain

You should select the added Certificate Authority (CA) in UCT-V Controller. To select the CA certificate, follow the steps in [Configure GigaVUE Cloud Suite Fabric Components in GigaVUE-FM](#)

6. Create an Egress tunnel from GigaVUE V Series Node 1 with tunnel type as TLS-PCAPNG while creating the monitoring session

You must create a tunnel for traffic to flow out from GigaVUE V Series Node 1 with tunnel type as TLS-PCAPNG while creating the monitoring session. For details, refer to [Create Ingress and Egress Tunnel \(Nutanix\)](#).

To create the egress tunnel,

- a. Create a new monitoring session, or select **Actions > Edit** on an existing monitoring session.

The GigaVUE-FM canvas appears.

- b. In the canvas, select **New > New Tunnel**, drag and drop a new tunnel template to the workspace.

The Add Tunnel Spec quick view appears.

- c. On the **New Tunnel** quick view, enter or select the required information as described in the following table:

Field	Action
Alias	The name of the tunnel endpoint.
Description	The description of the tunnel endpoint.
Type	Select TLS-PCAPNG for creating egress secure tunnel
Traffic Direction	<p>Choose Out (Encapsulation) for creating an egress tunnel from the V Series node to the destination. Select or enter the following values:</p> <ul style="list-style-type: none"> o MTU- The default value is 1500 for Azure. <p>Note: Increasing the MTU value will impact the performance and may even result in packet loss. By default, Azure VNet attempts to fragment jumbo frames even if you configure sending and receiving VMs with a higher MTU.</p> <ul style="list-style-type: none"> o Time to Live: Enter the value of the time interval till which the session needs to be available. The value ranges from 1 to 255. The default value is 64. o DSCP: Enter the Differentiated Services Code Point (DSCP) value. o Flow Label: Enter the Flow Label value. o Source L4 Port: Enter the Source L4 Port value o Destination L4 Port: Enter the Destination L4 Port value. o Flow Label o Cipher- Only SHA 256 is supported. o TLS Version: Select TLS Version1.3. o Selective Acknowledgments: Choose Enable to turn on the TCP selective acknowledgments. o SYN Retries: Enter the value for number of times the SYN has to be tried. The value ranges from 1 to 6. o Delay Acknowledgments: Choose Enable to turn on delayed acknowledgments.
Remote Tunnel IP	Enter the interface IP address of the GigaVUE V Series Node 2 (Destination IP).

- d. Select **Save**.

7. Select the added SSL Key while creating a monitoring domain and configuring the fabric components in GigaVUE-FM in GigaVUE V Series Node 2.

You must select the added SSL Key in GigaVUE V Series Node 2. To select the SSL key, follow the steps in [Configure GigaVUE Cloud Suite Fabric Components in GigaVUE-FM](#)

8. Create an ingress tunnel in the GigaVUE V Series Node 2 with tunnel type as TLS-PCAPNG while creating the monitoring session for GigaVUE Node 2

You must create a ingress tunnel for traffic to flow in from GigaVUE V Series Node 1 with tunnel type as TLS-PCAPNG while creating the monitoring session.

To create the ingress tunnel,

- a. Create a new monitoring session, or select **Actions > Edit** on an existing monitoring session.

The GigaVUE-FM canvas appears.

- b. In the canvas, select **New > New Tunnel**, drag and drop a new tunnel template to the workspace.

The Add Tunnel Spec quick view appears.

- c. On the **New Tunnel** quick view, enter or select the required information as described in the following table:

Field	Action
Alias	The name of the tunnel endpoint.
Description	The description of the tunnel endpoint.
Type	Select TLS-PCAPNG for creating egress secure tunnel. Note: If you are enabling Secure tunnel in Monitoring Session with traffic acquisition method as UCT-V, you must not create TLS-PCAPNG Tunnel with direction IN, Destination L4 port 11443, and GigaVUE V Series Node version 6.5 and above.
Traffic Direction	Choose In (Decapsulation) for creating an ingress tunnel that receives traffic from V Series node 1. Select or enter the values as described in Step 6.
IP Version	The version of the Internet Protocol. IPv4 and IPv6 are supported.
Remote Tunnel IP	Enter the interface IP address of the GigaVUE Cloud Suite V Series Node 1 (Destination IP).

- d. Select **Save**.

Configure Monitoring Session

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

When a new target VM is added to your environment, GigaVUE-FM automatically detects it. If the detected VM matches the defined selection criteria, your monitoring session displays it.

Similarly, when a traffic monitoring target VM is removed, the monitoring sessions are updated to show the removed instance.

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

To design your monitoring session, refer to the following sections:

- [Create a Monitoring Session \(Nutanix\)](#)
- [Create Ingress and Egress Tunnel \(Nutanix\)](#)
- [Create Raw Endpoint \(Nutanix\)](#)
- [Create a New Map](#)
- [Add Applications to Monitoring Session](#)
- [Interface Mapping \(Nutanix\)](#)
- [Deploy Monitoring Session](#)
- [View Monitoring Session Statistics](#)
- [Visualize the Network Topology \(Nutanix\)](#)

Create a Monitoring Session (Nutanix)

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.

Monitoring Session Page (Nutanix)

The table outlines the functional scope of each tab within the Monitoring Session Page, detailing configuration, traffic analysis, node management, and topology visualization features for Nutanix environments.

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	<p>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.</p> <p>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.</p> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> <p>NOTE: In the case of OVS Mirroring, the Sources tab also displays the Hypervisor details along with the Instances.</p> </div>

Tab	Description
Traffic Acquisition	You can enable or disable Prefiltering, Precryption, and Secure Tunnel here. You can also create a prefiltering template and apply it to the Monitoring Session. Refer to Configure Monitoring Session Options (Nutanix) for more detailed information. Note: Traffic Acquisition is only applicable for Monitoring Domain created with UCT-V as Acquisition method.
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 (Nutanix) 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 (Nutanix) 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 (Nutanix) .

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 (Nutanix)

Configure Monitoring Session Options

In the Monitoring Session page, you can perform the following actions in the **TRAFFIC ACQUISITION** and **TRAFFIC PROCESSING** tabs:

- Enable Prefiltering
- Enable Precryption
- Apply Threshold Template
- Enable User-defined applications
- Enable Distributed De-duplication

TRAFFIC ACQUISITION

To navigate to **TRAFFIC ACQUISITION** tab,

1. Go to **Traffic > Virtual > Orchestrated Flows > Select your cloud platform.**
2. Select the required Monitoring Session from the list view on the left pane and select the **TRAFFIC ACQUISITION** tab.

You can perform the following actions in the **TRAFFIC ACQUISITION** page:

- [Enable Prefiltering](#)
- [Enable Precryption](#)

Enable Prefiltering

To enable Prefiltering:

1. In the **TRAFFIC ACQUISITION** page, go to **Mirroring > Edit Mirroring.**
2. Enable the **Mirroring** toggle button.
3. Enable **Secure Tunnel** option if you wish to use Secure Tunnels. Refer to the *Configure Secure Tunnel* section in the respective GigaVUE Cloud Suite Deployment Guide.
4. Select an existing Prefiltering template from the **Template** drop-down menu, or create a new template using **Add Rule** option and apply it. For details, refer to [Create Prefiltering Policy Template](#).
5. Select the **Save as Template** to save the newly created template.
6. Select **Save** to apply the template to the Monitoring Session.

Enable Precryption

Consideration before you enable Precryption:

- To avoid packet fragmentation, change the option `precryption-path-mtu` in UCT-V configuration file (**`/etc/uctv/uctv.conf`**) within the range 1400-9000 based on the platform path MTU.
- Protocol version IPv4 and IPv6 are supported.
- If you wish to use IPv6 tunnels, ensure that the versions of GigaVUE-FM and the fabric components are 6.6.00 or above.

NOTE: We recommend to enable the secure tunnel feature whenever the Precryption feature is enabled. Secure tunnel helps to securely transfer the cloud captured packets or Precryption data to a GigaVUE V Series Node. For more information, refer to *Secure Tunnels* in the respective GigaVUE Cloud Suite Deployment Guide.

To enable Precryption:

1. In the **TRAFFIC ACQUISITION** page, select **Precryption** tab and click **Edit Precryption**.
2. Enable the **Precryption** toggle button. Refer to Precryption™ topic in the respective cloud guides for details.

3. Apply Precryption to a few selective components based on the traffic:

NOTE: If you wish to use Selective Precryption, ensure that the versions of GigaVUE-FM and the fabric components are 6.8.00 or above.

Applications:

- a. Select the **APPLICATIONS** tab.
The **Pass All Applications** is enabled by default. If you wish to use selective Precryption, disable this option.
- b. Select any one of the following options from **Actions**:
 - i. Include: Select to include the traffic from the selected applications for Precryption.
 - ii. Exclude: Select to exclude the traffic from the selected applications for Precryption.
- c. Select **Add**. The **Add Application** widget opens.
- d. Select **csv** as the **Type**, if you wish to add the applications using a .csv file.
- e. Select **Choose File** and upload the file.
- f. Select **Manual** as the **Type**, if you wish to add the applications manually.
- g. Enter the **Application Name** and select + icon to add more applications.
- h. Select **Save**.

L3-L4

You can select an existing Precryption template from the **Template** drop-down list, or you can create a new template and apply it. For details, refer to [Create Precryption Template for UCT-V](#).

4. Enable the **Secure Tunnel** option if you wish to use Secure Tunnels. Refer to the *Configure Secure Tunnel* section in the respective GigaVUE Cloud Suite Deployment Guide.

Validate Precryption connection

To validate the Precryption connection, follow the steps:

- To confirm it is active, navigate to the Monitoring Session **Overview** tab and check the Traffic Acquisition Options.
- Select **Precryption**, to view the rules configured.

Limitations

During Precryption, UCT-V generates a TCP message with the payload being captured in clear text. Capturing the L3/L4 details of this TCP packet by probing the SSL connect/accept APIs. The default gateway's MAC address is the destination MAC address for the TCP packet when SSL data is received on a specific interface. If the gateway is incorrectly configured, the destination MAC address is all Zeros.

TRAFFIC PROCESSING

To navigate to **TRAFFIC PROCESSING** tab:

1. Go to **Traffic > Virtual > Orchestrated Flows > Select your cloud platform**.
2. Select the required Monitoring Session from the list view on the left side of the screen and click **TRAFFIC PROCESSING** tab.

You can perform the following actions in the **TRAFFIC PROCESSING** page:

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

Apply Threshold Template

To apply threshold:

1. In the **TRAFFIC PROCESSING** page, select **Thresholds** under **Options** menu.
2. You can select an existing threshold template from the **Select Template** drop-down list, or you can create a new template using **New Threshold Template** option and apply it.
For more details on Threshold Template, refer to the [Traffic Health Monitoring](#) section.
3. Select **Save** to save the newly created template.
4. Select **Apply** to apply the template to the Monitoring Session.

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.

You can also view the related details of the applied thresholds, such as Traffic Element, Metric, Type, Trigger Values, and Time Interval in the **Threshold** window. Select **Clear Thresholds** to clear the applied thresholds across the selected Monitoring Session.

Enable User Defined Applications

To enable user defined application:

1. In the **TRAFFIC PROCESSING** page, click **User Defined Applications** under **Options** menu.
2. Enable the **User-defined Applications** toggle button.
3. Add from the existing applications or create new User-Defined Application from the **Actions** drop-down. Refer to [User Defined Application](#).

Enable Distributed De-duplication

In the TRAFFIC PROCESSING page, click **Distributed De-duplication** under **Options** menu. 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. Refer to [Distributed De-duplication](#).



Notes:

- Distributed De-duplication is only supported on V Series version 6.5.00 and later.
- From version 6.9.00, Traffic Distribution option is renamed to Distributed De-duplication.

Tool Exclusion

Tool Exclusion helps prevent traffic loops by ensuring monitoring tools are not mistakenly selected as traffic targets during Automatic Target Selection (ATS). This feature is available only when the traffic acquisition method is VPC Traffic Mirroring.

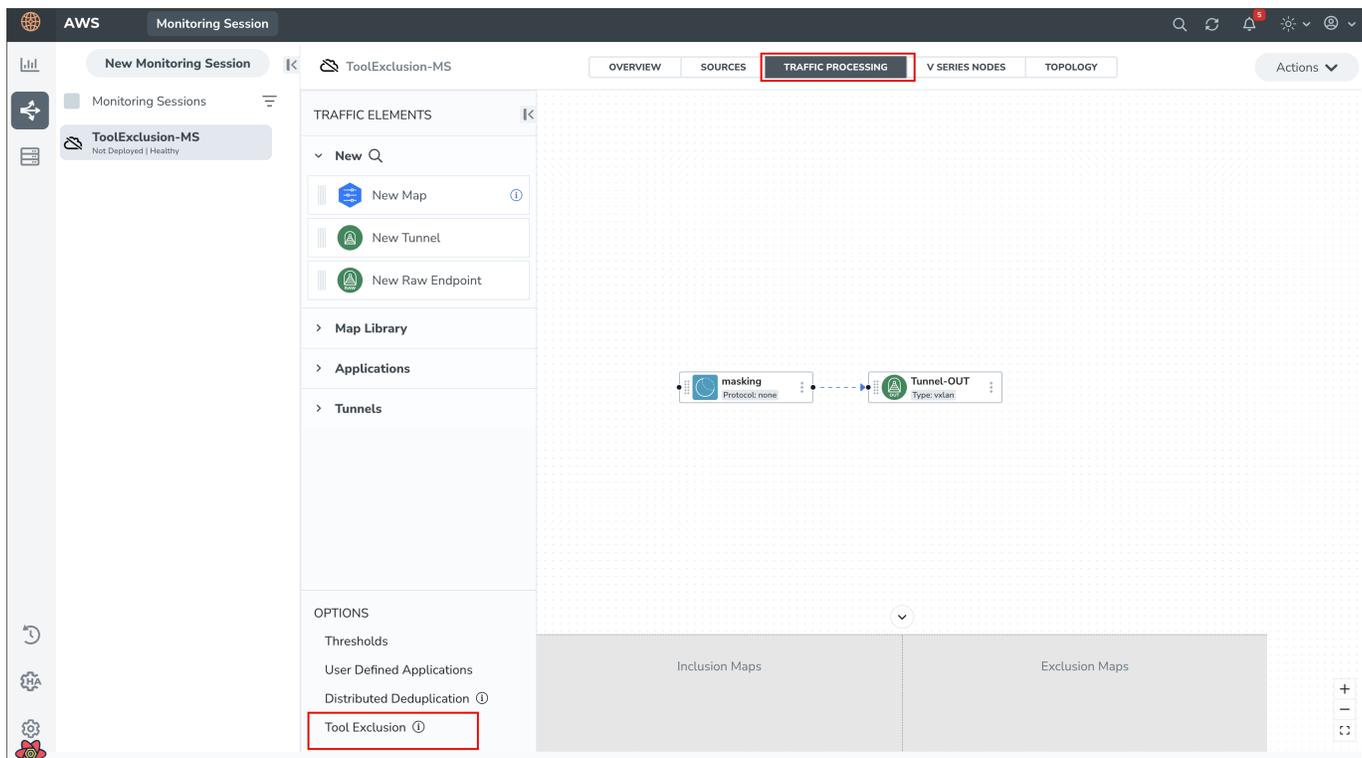
You can exclude tool instances using either of the following methods:

1. Using AWS Tag Key

During deployment, apply the AWS tag key **GigamonExclude:Value** (Any Value) to any instance that acts as a monitoring tool. This tag ensures the system automatically excludes these instances from ATS.

2. Using the Tool Exclusion Feature in UI

During deployment, if the same instance IP is configured as both source (ingress) and tool (egress), the system prompts you to manually identify and exclude tools. Also, you can use the **Tool Exclusion** option to include or exclude tools and targets manually.



Create Ingress and Egress Tunnel (Nutanix)

Traffic from the GigaVUE V Series Node is distributed to tunnel endpoints in a monitoring session. You can use a standard L2GRE, VXLAN, or ERSPAN tunnel to create a tunnel endpoint,

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.

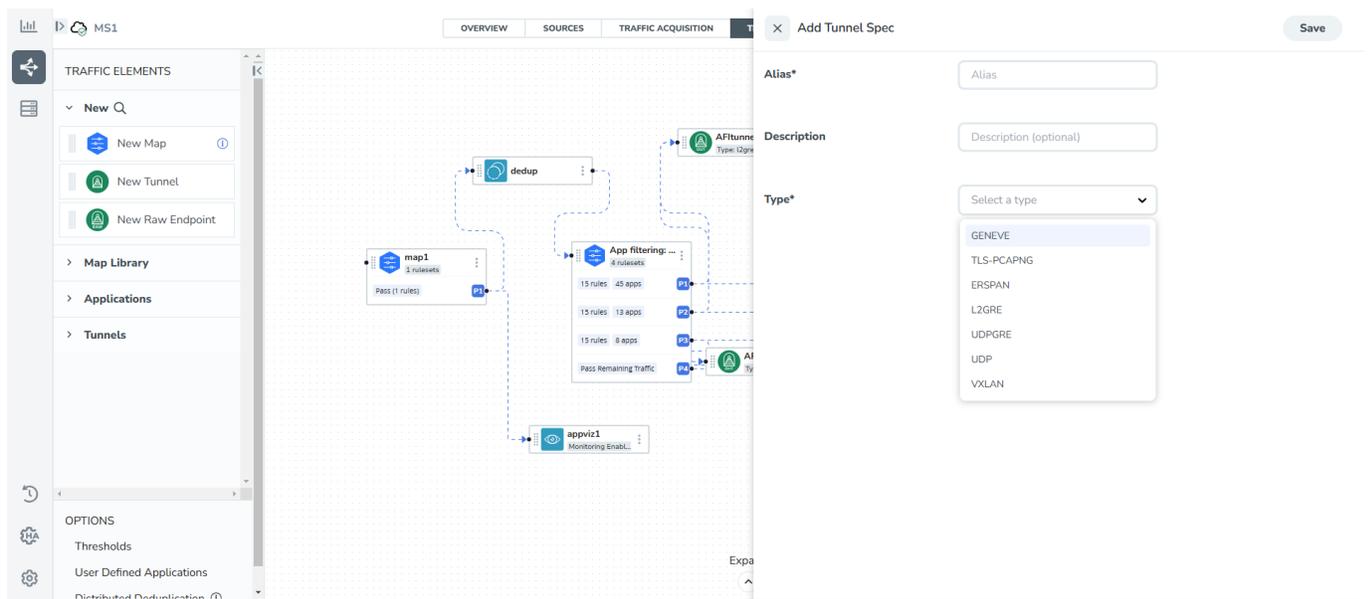
Create a new tunnel endpoint

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.

- On the left pane of the canvas, select the  icon to view the traffic processing elements.
- Select **New > New Tunnel**, drag and drop a new tunnel template to the workspace.
The **Add Tunnel Spec** quick view appears.
- Enter the **Alias**, **Description**, and **Type** details.
For details, refer to [Details - Add Tunnel Specifications](#) table.
- 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

- Select the  menu button of the required tunnel endpoint on the canvas and click **Details**.
- 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	

Field	Description
	to the destination endpoint.

Field	Description	
	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.
	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 1108 1468 1759" 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. </div>

Field	Description	
	 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-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.		

Field	Description														
<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 the Secure Tunnels.</p>															
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<p>NOTE: This setting is available only when Domain Classification is enabled in the associated PCAPng application. Refer to</p>															

Field	Description	
		PCAPng Application for details.
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.

Create a New Map

Terms to know before creating 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 that are used to match traffic and perform various actions on the matched traffic.
Inclusion Map	An inclusion map determines the instances to be included for monitoring. This map is used only for target selection.

Exclusion Map	An exclusion map determines the instances to be excluded 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 • VM Tag Source • VM Category Source • VM Category Destination • Host Name • Host Name • Host Name <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.

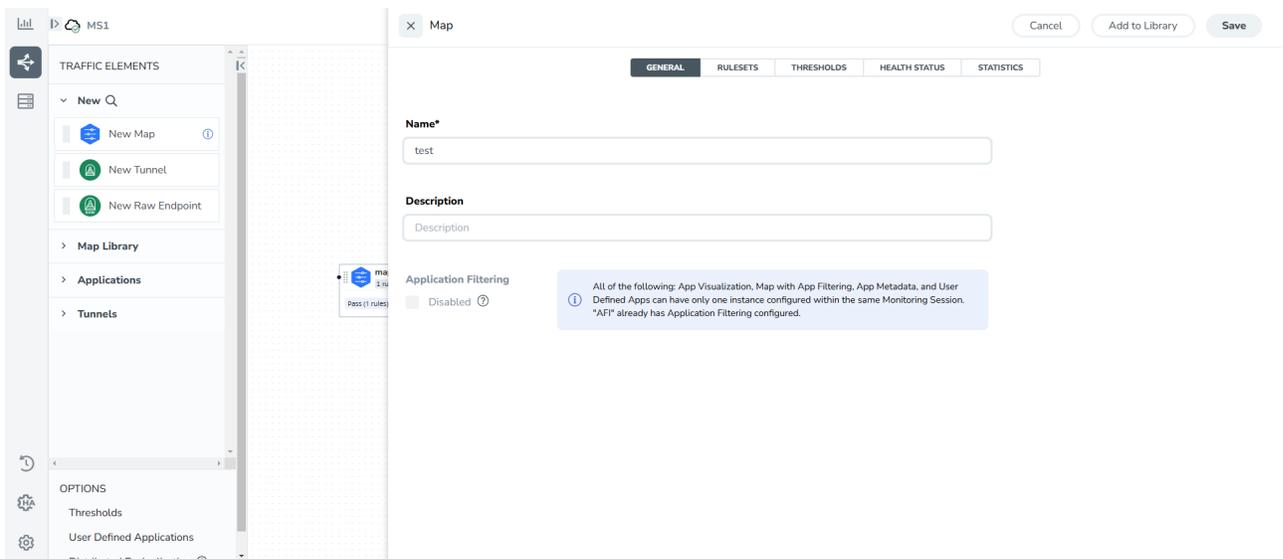
	<ul style="list-style-type: none"> • If no ATS rule filters listed above are used, all VMs and vNICs are selected as targets. When any ATS rule results in a null set, no target is selected and V Series Node does not receive traffic from any VM or vNIC. • Use the GigamonNode Tag to exclude any Gigamon devices from the target. • 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 maps that are pre-defined and 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 required information as described below.

- 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. **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. Enter the Application Endpoint in the Application EndPoint ID field.
- iv. Select a required condition from the drop-down list.
- v. Select the rule to **Pass** or **Drop** through the map.

b. **To create a new rule:**

- i. Select **Actions > New Rule**.
- ii. Select a required condition from the drop-down list. Click  and select **Add Condition** to add more conditions.
- iii. Select the rule to **Pass** or **Drop** through the map.

4. Select **Save**.

Through the map, you can drop or pass packets 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. To add ATS rules for an Inclusion/Exclusion map, you must select at least one rule condition. For details, refer to [Example- Create a New Map using Inclusion and Exclusion Maps](#).

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

- To edit a map, select the  menu button of the required map on the canvas and click **Details**, or select **Delete** to delete the map.

- To apply threshold template to maps, select the required map on the canvas and click **Details**. The quick view appears, select on 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. In the **RULESETS** tab, enter the priority and Application Endpoint ID.
3. 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.
4. Select the Expand icon at the bottom of the Monitoring session canvas. The Inclusion Maps and Exclusion Maps section appears.
5. Drag and drop a new map template to the Inclusion Maps region. The New Map quick view appears. Enter the Name and Description of the map.
 - a. In the **GENERAL** tab, enter the name as Inclusionmap1 and enter the description. In the **RULESETS**, enter the priority and Application Endpoint ID.
 - b. Select the condition as VM Name and enter the VM Name as **target-1**. Then, the instance with VM name **target-1-1**, **target-1-2**, and **target-1-3** is included.
6. Drag and drop a new map template to the Exclusion Maps region. The New Map quick view appears. 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 (Nutanix)

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

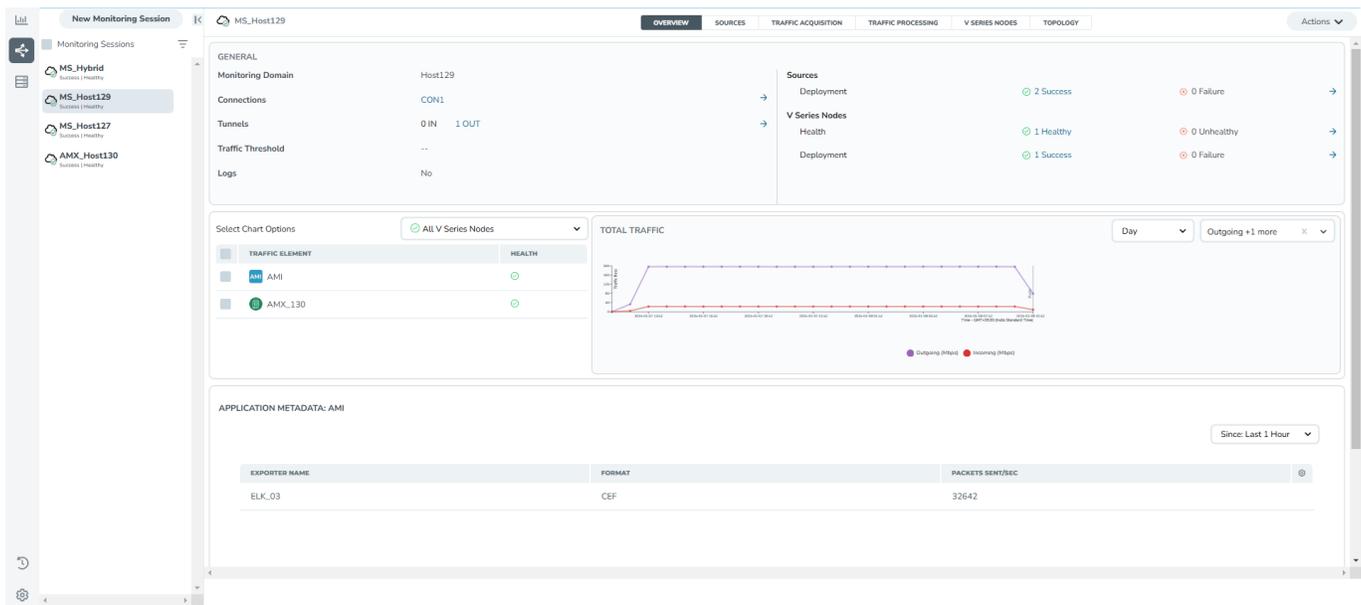
Cancel Deploy

- 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.

Visualize the Network Topology (Nutanix)

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.

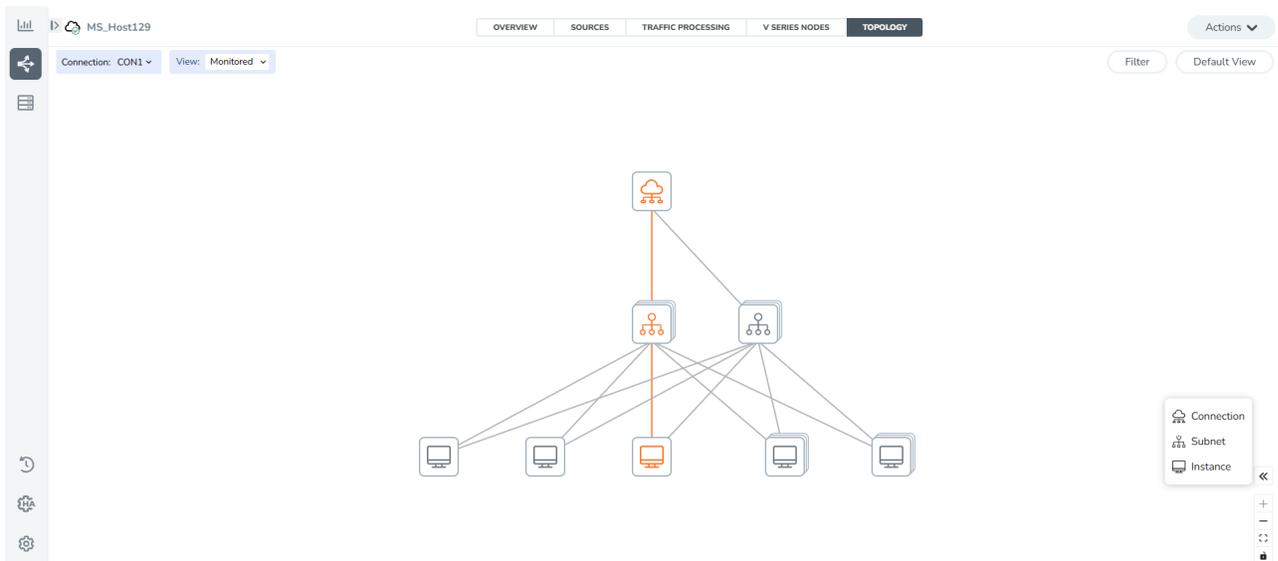
To view the topology in GigaVUE-FM:

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.
4. 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.

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

- Fabric
- Monitored



6. (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.
7. 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.

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 	<ol style="list-style-type: none"> 1. Difference 	<ol style="list-style-type: none"> 1. Over

	<ol style="list-style-type: none"> 2. Rx Packets 3. Packets Dropped 	<ol style="list-style-type: none"> 2. Derivative 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 1. Difference 2. Derivative 	<ol style="list-style-type: none"> 1. Over 2. Under

	12. Workload - Req Errors 13. Exporter - Avg File Size 14. Exporter - File Uploads 15. Exporter - File Uploads Errors 16. Enrichment - One Minute Percent		
Geneve	1. Tx Packets 2. Rx Packets 3. Packets Dropped	1. Difference 2. Derivative	1. Over 2. Under
5G-SBI	1. Tx Packets 2. Rx Packets 3. Packets Dropped	1. Difference 2. Derivative	1. Over 2. Under
SBIPOE	1. Tx Packets 2. Rx Packets 3. Packets Dropped	1. Difference 2. Derivative	1. Over 2. Under
PCAPNG	1. Tx Packets 2. Rx Packets 3. Packets Dropped	1. Difference 2. Derivative	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.

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.

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.

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

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

1. Go to  -> **Analytics** -> **Dashboards**.
2. 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
		<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	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. You can filter the visualizations	<i>V Series Node Maximum CPU Usage Trend</i>	Line chart that displays maximum CPU usage trend of the V Series node in 5 minutes interval, for the past one hour.

Dashboard	Displays	Visualizations	Displays
	based on the following control filters: <ul style="list-style-type: none"> • Platform • Connection • V Series Node 		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.
		<i>V Series Node with Most CPU Usage For Past 5 minutes</i>	Line chart that displays Maximum CPU usage of the V Series node for the past 5 minutes. Note: You cannot use the time based filter options to filter and visualize the data.
		<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 mins</i>	Total packets received by each of 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</i>	Displays the reception of

Dashboard	Displays	Visualizations	Displays
		<i>Packets/Errors</i>	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	<p>Displays visualizations related to Dedup application.</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>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)	<p>Displays visualizations related to the tunneled traffic in both bytes as well as the number of packets.</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: 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. 	<i>Tunnel Bytes</i>	<p>Displays received tunnel traffic vs transmitted tunnel traffic, in bytes.</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.

Dashboard	Displays	Visualizations	Displays
	<ul style="list-style-type: none"> • 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 		
		<i>Tunnel Packets</i>	Displays packet-level statistics for input and output tunnels that are part of a monitoring session.
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 • 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 	<i>App Bytes</i>	Displays received traffic vs transmitted traffic, in Bytes.

Dashboard	Displays	Visualizations	Displays
	<ul style="list-style-type: none"> Errored Packets Dropped Packets 	<i>App Packets</i>	Displays received traffic vs transmitted traffic, as the number of packets.
End Point (Virtual)	<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 <i><V Series Node Management IP address : Network Interface></i> 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 Endpoint: Management IP of the V Series node followed by the Network Interface (NIC) 	<i>Endpoint Bytes</i>	Displays received traffic vs transmitted traffic, in Bytes.
		<i>Endpoint Packets</i>	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.

Administer GigaVUE Cloud Suite for Nutanix

You can perform the following administrative tasks in GigaVUE-FM for GigaVUE Cloud Suite for Nutanix:

- [Configure Nutanix Settings](#)
- [Role Based Access Control](#)
- [About Events](#)
- [About Audit Logs](#)

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**.

Configure Nutanix Settings

To configure the Nutanix Settings:

1. Go to **Inventory > VIRTUAL > Nutanix** and then click **Settings**. The Settings page appears.
2. Click **Advanced** tab on the Settings page, click **Edit** to edit the Settings fields. Refer to the following table for descriptions of the Settings fields:

Settings	Description
Maximum number of connections allowed	Specifies the maximum number of 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 Nutanix.
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.

Role Based Access Control

The Role Based Access Control (RBAC) feature controls the access privileges of users and restricts users from either modifying or viewing unauthorized data. Access privileges in GigaVUE Cloud Suite works on the same principles of access privileges in GigaVUE-FM in which the access rights of a user depends on the following:

- **User role:** A user role defines permission for users to perform any task or operation
- **User group:** A user group consists of a set of roles and set of tags associated with that group. When a user is created they can be associated with one or more groups.

To access the resources and to perform a specific operation in GigaVUE Cloud Suite you must be a user with **fm_super_admin** role or a user with write access to the following resource category depending on the task you need to perform.

Resource Category	Cloud Configuration Task
<p>Physical Device Infrastructure Management: This includes the following cloud infrastructure resources:</p> <ul style="list-style-type: none"> • Cloud Connections • Cloud Fabric Deployment • Cloud Configurations • Sys Dump • Syslog • Cloud licenses • Cloud Inventory 	<ul style="list-style-type: none"> • Configure GigaVUE Cloud Components • Create Monitoring Domain and Launch Visibility Fabric
<p>Traffic Control Management: This includes the following traffic control resources:</p> <ul style="list-style-type: none"> • Monitoring session • Stats • Map library • Tunnel library • Tools library • Inclusion/exclusion Maps 	<ul style="list-style-type: none"> • Create, Clone, and Deploy Monitoring Session • Add Applications to Monitoring Session • Create Maps • View Statistics • Create Tunnel End Points

NOTE: Cloud APIs are also RBAC enabled.

Refer to the *GigaVUE Administration Guide* for detailed information about Roles, Tags, User Groups.

About Events

The Events page displays all the events occurring in the virtual fabric component, VM Domain, and VM manager. An event is an incident that occurs at a specific point in time. Examples of events include:

- Cloud provider License Expiry
- UCT-V Inventory Update Completed
- Cloud provider Connection Status Changed

An Alarm is a response to one or more related events. If an event is considered of high severity, then GigaVUE-FM raises an alarm. An example of alarm is your cloud provider license expiry.

The alarms and events broadly fall into the following categories: Critical, Major, Minor, or info.

Access Event

Navigate to **Dashboard > SYSTEM > Events**. The Event page appears.

Source	Time	Event Type	Severity	Affected Entity T...	Affected Entity	Alias	Device IP	Host Name	Scope	Description	Tags
FM	2022-08-10 0...	Licenses Expir...	Info	Floating License					FM	4 Floating	
FM	2022-08-09 0...	Licenses Expir...	Info	Floating License					FM	4 Floating	
FM	2022-08-08 0...	Licenses Expir...	Info	Floating License					FM	4 Floating	
FM	2022-08-07 0...	Licenses Expir...	Info	Floating License					FM	4 Floating	
FM	2022-08-06 0...	Licenses Expir...	Info	Floating License					FM	4 Floating	
FM	2022-08-05 1...	FM Applicatio...	Info	fm application ...				fmha1	fmService	CMS service f...	
FM	2022-08-04 1...	FM Applicatio...	Info	fm application ...				fmha1	fmService	CMS service f...	
FM	2022-08-04 1...	Alarm Delete ...	Critical	VSeries Node	vc-obc-pod2.u...				Alarm	Node Down. P...	

The following table describes the parameters recording for each alarm or event. You can also use filters to narrow down the results.

Controls/ Parameters	Description
Source	The source from where the events are generated. The criteria are: <ul style="list-style-type: none"> FM - indicates the event that the GigaVUE-FM fabric manager flagged. VMM - indicates the event that the Virtual Machine Manager flagged. FM Health - indicates the event that the health status change of GigaVUE-FM flagged.
Duration	The timestamp when the event occurred or the duration of the event. IMPORTANT: Timestamps or the duration appear in the time zone of the client browser's computer and not the time zone of the node reporting the event. The timestamp is based on the correctly configured clock on the GigaVUE-FM server and converted from UTC to the client computer's configured time zone.
Scope	The category to which the events belong. Events can belong to the following categories: Domain, Node, Card, Port, Stack, Cluster, Chassis, GigaVUE-FM, GigaVUE-VM, and so on. For example, if an event generates a notification for port utilization low threshold, the scope is displayed as Physical Node.
Alarm Type	The type of events that generates the alarms. The types of alarms are Abnormal Fan Operation, Card Unhealthy, Circuit Tunnel Unhealthy, CPU Over Loaded, Device Upgrade Failed.
Event Severity	The severity is one of Critical, Major, Minor, Warning, or Info. Info is informational messages. For example, when a power status change notification is displayed, the message is Info.
Event Status	The status of the event. The status is either Acknowledged or Unacknowledged.
Event Type	The type of event that generated the events. The types of events are CPU utilization high, cluster updated, device discovery failed, fan tray changed, netflow generation statistics, and so on.
Affected Entity Type	The resource type associated with the event. For example, when a low disk space

Controls/ Parameters	Description
	notification is generated, 'Chassis' is displayed as the affected entity type.
Cluster ID	Enter the Cluster ID.
Affected Entity	The resource ID of the affected entity type. For example, when low disk space notification is generated, the IP address of the node with the low disk space is displayed as the affected entity.
Device IP	The IP address of the device.
Host Name	The host name of the device.
Alias	Event Alias
Monitoring Domain	The name of the Monitoring Domain.
Connection	The name of the Connection.
Show Non-taggable Entities	Enable to display the events for entities that you cannot tag. For example, Policies, GigaVUE-FM instance, and other such entities.
Tags	Select the Key and the Value from the drop-down list.

To filter the alarms and events,

1. Select **Filter**.

The Filter quick view is displayed.

2. Select the filtering criteria, and then select **Apply Filter**.

The result appears on the Events page.

About Audit Logs

Audit logs track the changes and activities that occur in the virtual nodes due to user actions. You can filter the logs to view specific information.

Access Audit Logs

Navigate to **Dashboard > SYSTEM > Audit Logs**. The **All Audit Logs** page appears.

All Audit Logs Filter Manage

Filter : none

Time	User	Operation Type	Entity Type	Source	Device IP	Hostname	Status	Description	Tags
2020-1...	admin	login fmUser ad...	User	fm			SUCCESS		
2020-1...	admin	logout fmUser a...	User	fm			SUCCESS		
2020-1...	admin	login fmUser ad...	User	fm			SUCCESS		
2020-1...	admin	update monitor...	Monitoring				SUCCESS		

< < Go to page: of 16 > > Total Records: 106

Parameters

The Audit Logs have the following parameters:

Parameters	Description
Time	Provides the timestamp on the log entries.
User	Provides the logged user information.
Operation Type	Provides specific entries that the system logs. For example, <ul style="list-style-type: none"> ▪ Log in and Log out based on users. ▪ Create/Delete/Edit tasks, GS operations, maps, virtual ports, and so on.
Source	Provides details about the usage either in GigaVUE-FM or on the node when the event occurred.
Status	Success or Failure of the event.
Description	For failed status provides a brief update on the reason..

NOTE: Verify if the GigaVUE-FM time is set correctly to ensure accuracy of the captured trending data.

Filtering the audit logs

You can filter to view specific type of logs based on the following criteria:

- **When:** Displays logs that occurred within a specified time range.
- **Who:** Displays logs related to a particular user or users.
- **What:** Displays logs for one or more operations, such as Create, Read, and Update.
- **Where:** Displays logs for GigaVUE-FM or devices.
- **Result:** Displays logs for success or failure.

To filter the audit logs,

1. Select **Filter**.

A quick view for Audit Log Filters displays.

2. Specify one or all of the following:

- **Start Date** and **End Date** to display logs within a specific time range.
- **Who** limits the scope of what displays on the Audit Logs page to a specific user or users.
- **What** narrows the logs to the types of operation that the log is related to. You can select multiple operations. Select **All Operations** to apply all operation types as part of the filter criteria.
- **Where** narrows the logs to particular of system that the log is related to. Select **All Systems** apply both GigaVUE-FM and device to the filter criteria. **Result** narrows the logs related to failures or successes. Select **All Results** to apply both success and failure to the filter criteria.

3. Select **OK** to apply the selected filters to the **Audit Logs** page.

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. 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**.
2. 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**.

FAQs - Secure Communication between GigaVUE Fabric Components (Nutanix)

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.

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
<p>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.</p>
<p>Hardware</p> <p>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</p>
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)