

GigaVUE Cloud Suite for Nutanix–GigaVUE V Series 2 Guide

GigaVUE Cloud Suite

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Contents

GigaVUE Cloud Suite for Nutanix–GigaVUE V Series 2 Guide	1
Change Notes	3
Contents	4
GigaVUE Cloud Suite for Nutanix-GigaVUE V Series 2	6
Overview of GigaVUE Cloud Suite for Nutanix	6
Components of GigaVUE Cloud Suite for Nutanix	6
Cloud Overview Page	7
Virtual Dashboard Widgets	7
Get Started with GigaVUE Cloud Suite for Nutanix Deployment	8
License Information	8
Volume Based License (VBL)	9
Base Bundles	9
Add-on Packages	9
How GigaVUE-FM Tracks Volume-Based License Usage	10
Manage Volume-Based License	10
Default Trial Licenses	
Apply License	
Install and Upgrade GigaVUE-FM	12
Configure Components in Nutanix	13
Before You Begin	13
Prerequisites	13
Minimum Compute Requirements	14
Network Firewall Requirements	
Upload Fabric Images	15
Deploy GigaVUE Cloud Suite for Nutanix	15
Install GigaVUE-FM on Nutanix	16
Create a Monitoring Domain	17
Configure GigaVUE Cloud Suite Fabric Components in GigaVUE-FM	
Nutanix Fabric Launch Configuration	18
Configure Monitoring Sessions	
Create a Monitoring Session	
Create Ingress and Egress Tunnel	
Create a New Map	
Add Applications to Monitoring Session	25

View Monitoring Session Statistics	
Visualize the Network Topology	
Cloud Health Monitoring	
View Monitoring Session Configuration Health	29
Health	
V Series Node Health	
Target Source Health	
View Monitoring Session Statistics	
View Monitoring Session Diagram	31
Fabric Health Analytics for Virtual Resources (BETA)	
Virtual Inventory Statistics and Cloud Applications Dashboard	32
Administer GigaVUE Cloud Suite for Nutanix	
Configure Nutanix Settings	
Role Based Access Control	
About Events	
About Audit Logs	40
Additional Sources of Information	
Documentation	
How to Download Software and Release Notes from My Gigamon	
Documentation Feedback	
Contact Technical Support	
Contact Sales	
Premium Support	
The VÜE Community	47
Glossary	

GigaVUE Cloud Suite for Nutanix-GigaVUE V Series 2

This guide describes how to install, configure, and deploy the GigaVUE Cloud Suite for Nutanix-GigaVUE V Series 2 in the Prism Central environment. Use this document for instructions on configuring the GigaVUE Cloud Suite Cloud components and setting up the traffic monitoring sessions for the Nutanix.

Topics:

- Overview of GigaVUE Cloud Suite for Nutanix
- Get Started with GigaVUE Cloud Suite for Nutanix Deployment
- Configure Components in Nutanix
- Deploy GigaVUE Cloud Suite for Nutanix
- Cloud Health Monitoring
- Fabric Health Analytics for Virtual Resources (BETA)
- Administer GigaVUE Cloud Suite for Nutanix

Overview of GigaVUE Cloud Suite for Nutanix

GigaVUE® Fabric Manager (GigaVUE-FM) is a web-based fabric management interface that provides a single pane of glass visibility and management of both the physical and virtual traffic that form the GigaVUE Cloud Suite Cloud.

GigaVUE-FM integrates with the Nutanix Platform and deploys the components of the GigaVUE Cloud Suite for Nutanix in the underlay environment.

Once the GigaVUE Cloud Suite for Nutanix instance is launched in the Nutanix Prism central, the rest of the VM instances are automatically launched from GigaVUE-FM.

Refer to the following sections for details:

• Components of GigaVUE Cloud Suite for Nutanix

Components of GigaVUE Cloud Suite for Nutanix

GigaVUE Cloud Suite for Nutanix includes the following components:

- GigaVUE® Fabric Manager (GigaVUE-FM) is a web-based fabric management interface that provides a single pane of glass visibility and management of both the physical and virtual traffic that forms the GigaVUE Cloud Suite Cloud for Nutanix. GigaVUE-FM manages the configuration of the GigaVUE® V Series Node
- GigaVUE® V Series Node is a visibility node that aggregates mirrored traffic. It applies filters, manipulates the packets using GigaSMART applications, and distributes the optimized traffic to cloud-based tools or backhaul to on premise device or tools. GigaVUE Cloud Suite for Nutanix uses the standard IP GRE or VXLAN tunnels to deliver traffic to tool endpoints.
- GigaVUE® V Series Proxy manages multiple GigaVUE V Series nodes and orchestrates the flow of traffic from GigaVUE V Series Nodes to the monitoring tools. GigaVUE-FM uses one or more GigaVUE V Series Proxies to communicate with the GigaVUE V Series nodes.

Cloud Overview Page

The overview page is a central location to view and monitor all the monitoring sessions in a single place. You can use this overview page to spot issues which will help in troubleshooting, or perform basic actions like view, edit, clone, and delete. This page provides a quick overview of basic statistics, V Series Alarms, Connection Status and Volume Usage vs Allowance and a table to summarize the active monitoring sessions details. You can also edit the monitoring session from this page instead of navigating to the monitoring session page in each platform.

Go to Traffic > Virtual > Orchestrated Flows > Overview. The Cloud Homepage appears.

Virtual Dashboard Widgets

This section describes the widgets that can be viewed on the overview page.

- Overview
- V Series Alarms
- Connection Status
- Usage (VBL)
- Summary (Monitoring Session details)

Overview

The overview dashboard displays the number of GigaVUE V Series Nodes active in GigaVUE-FM, number of Monitoring sessions and connections configured in all the platofrms, and the number of alarms triggered in V Series Nodes.

V Series Alarms

The V Series Alarms widget presents a pie chart that helps you to quickly to view the V Series alarms generated . Each type of alarm triggered is assigned a color in the graph, which is specified by the legend. Hovering the mouse over an area in the chart displays the total number of V Series alarms triggered.

Connection Status

The connection status presents a pie chart that helps you to quickly to view the connection status of connections configured in the monitoring domain. Each type of connection status is assigned a color in the graph, which is specified by the legend. Hovering the mouse over an area in the chart displays the total number of connected.

Usage

The Usage widget displays the amount of traffic that flows through the GigaVUE V Series Nodes. Each bar in the graph indicates the volume usage on a particular day. Hovering the mouse over a bar in the graph displays the volume allowance and volume usage on that particular day.

Summary

This widget allows you to view the list of all the available monitoring session along with the respective monitoring domain, platform, connection, their health status, V Series Node health status and the deployment status of the connection. You can click on the monitoring session name to view the **Edit Monitoring session** page of the respective monitoring session.

Get Started with GigaVUE Cloud Suite for Nutanix Deployment

This chapter describe show to plan and start the GigaVUE Cloud Suite for Nutanix in Nutanix.

Refer to the following sections for details:

- License Information
- Install and Upgrade GigaVUE-FM

License Information

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

Refer to the following sections for details:

- Volume Based License (VBL)
- Apply License

Volume Based License (VBL)

All the V Series 2 nodes connected to GigaVUE-FM periodically reports statistics on the amount of traffic that flows through the V Series Nodes. The statistics give information on the actual data volume that flows through the V Series Nodes. All licensed applications, when running on the node, generate usage statistics. In the Volume-Based Licensing (VBL) scheme, a license entitles specific applications on your devices to use a specified amount of total data volume over the term of the license. The distribution of the license to individual nodes or devices becomes irrelevant for Gigamon's accounting purpose. GigaVUE-FM tracks the total amount of data processed by the various licensed applications and provides visibility into the actual amount of data, each licensed application is using on each node, and track the overuse if any. Volume-based licensing has a service period of 1 month. Service period is the period of time for which the total usage or overage is tracked. There is a grace period for each license that is encoded in the license file. The license effectively provides data allowance for this additional time after the official end time of the license.

For purchasing licenses with the Volume-Based License (VBL) option, contact our Sales. Refer to Contact Sales.

Base Bundles

GigaVUE-FM has the following three base bundles:

- SecureVUEPlus (highest)
- NetVUE (intermediate)
- CoreVUE (lowest)

The number in the SKU indicates the total volume allowance of the SKU. For example, VBL-250T-BN-CORE has a volume allowance of 250 terabytes.

Bundle Replacement Policy

You can always upgrade to a higher bundle but you cannot move to a lower version. You cannot have two different base bundles at the same time however, you can have multiple base bundles of the same type. Once upgraded to a higher bundle, the existing lower bundles will be automatically deactivated.

Add-on Packages

GigaVUE-FM allows you to add additional packages called 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.

Rules for add-on packages:

- Add-on packages can only to be added when there is an active base bundle available in GigaVUE-FM.
- The base bundle limits the total volume usage of the add-on package.
- If your add-on package has volume allowance less than the base bundle, then your add-on package can only handle volume allocated for add-on package.
- When the life term of an add-on package extends beyond the base bundle, then when the base bundle expires, the volume allowance of the add-on package will be reduced to zero until a new base bundle is added.

The list of the available add-on SKUs are:

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

How GigaVUE-FM Tracks Volume-Based License Usage

GigaVUE-FM tracks the license usage for each V series node as follows:

- When you create and deploy a monitoring session, GigaVUE-FM allows you to use only those applications that are licensed at that point.
- When a license goes into grace period, you will be notified, along with a list of monitoring sessions that would be affected after the expiry of the grace period.
- When a license expires (and has not been renewed yet), the monitoring sessions using the corresponding license will be undeployed, but not deleted from the database.
- When a license is renewed or newly imported, the undeployed monitoring sessions will be redeployed.

Manage Volume-Based License

To manage active Volume-Based License:

- 1. On the left navigation pane, click 🕸
- 2. Go to **System > Licenses**. From the top navigation bar, select the **VBL Active** from the **FM/Cloud** drop-down.

This page lists information like SKUs, Bundles, Start date, End date, Type, and Activation ID of the Volume-Based Licenses that are active. The expired licenses are automatically moved to the VBL **Inactive** page, which can be found under the **FM/Cloud** drop-down in the top navigation bar.

Click on the individual SKU to view the list of applications available for that particular SKU.

Use the following buttons to manage your active VBL.

Button	Description
Activate Licenses	Use this button to activate a Volume-Based License. Refer Activate Licenses for more information.
Email Volume Usage	Use this button to send the volume usage details to the email recipients.
Filter	Use this option to narrow down the list of active Volume- Based Licenses that are displayed on the VBL active page.
Export	Use this button to export the details in the VBL active page to a CSV or XLSX file.

For more detailed information on dashboards and reports generation for Volume-Based Licensing refer 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 Licensed 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

Default Trial Licenses

After you install GigaVUE-FM, a default free 1TB of CoreVUE trial volume-based license (VBL) is provided one-time for 30 days (from the date of installation).

₩	Licenses FM/Cloud	Node Lic	enses 👻 Floating 💙 Volume Usage 🕇	Expiry Settings	;					Q	S ¢ ®∙
<u>lad</u>	Q Find			Sea	rch Q	Export •	Card RMA Renew	val Deactivate 👻		Replace Licen	ses Filter
s N	Packet Errors and Port Discovery	10 f	floating licenses have expired are going to e	xpire soon. To continue	e using these product	s, <u>please renew your lic</u>	censes.				×
	Node Details		SKU	Feature	Туре	Description	Start Date	End Date	Activation ID	Seats / Volume	Status (
	IP Resolver	0	VBL-1T-BN-CORE-TRIAL	erspan	Trial	1T-AdvancedTu	May 13, 2021	Jun 12, 2021	4e8cb5a4-7eb4	1024 GB daily	Expired
	Backup/Restore	0	VBL-1T-BN-CORE-TRIAL	geneve,slicing,m	Trial	1T-BaseApps	May 13, 2021	Jun 12, 2021	4e8cb5a4-7eb4	1024 GB daily	Expired
	Certificates	0	VBL-1T-BN-CORE-TRIAL	header-stripping	Trial	1T-HeaderStripp	May 13, 2021	Jun 12, 2021	4e8cb5a4-7eb4	1024 GB daily	Expired
	Event Notifications		SMT-HC0-GEN1-DD1-SW-TM	dedup	Internal	HC2-GEN1-Ded	May 14, 2021	May 14, 2022	a5d70642-95eb	5 of 8 available	Grace Period
	Licenses		SMT-HC0-GEN1-APF-SW-TM	apf	Internal	HC2-GEN1-APF	May 21, 2021	Never	ce782018-1b0f	6 of 8 available	Active
	Logs Storage Managem		SMT-HC0-GEN1-ASF-SW-TM	asf	Internal	HC2-GEN1-ASF	May 21, 2021	Never	24618ae4-ddb6	1 of 2 available	Active
	> Tasks		SMT-HC0-GEN1-HS1-SW-TM	header-stripping	Internal	HC2-GEN1-HS1	May 21, 2021	Never	8d035388-013	7 of 8 available	Active
	Reports		SMT-HC0-GEN1-NF1-SW-TM	netflow	Internal	HC2-GEN1-Net	May 21, 2021	Never	11d3f4dd-90c6	7 of 8 available	Active
	> Authentication		SMT-HC0-GEN1-SSL-SW-TM	ssl-decrypt	Internal	HC2-GEN1-SSL	May 21, 2021	Never	30f7e2c0-aea5	0 of 3 available	Active
	High Availability		SMT-HC3-GEN2-5GC-SW-TM	5G-Correlation n	Commercial	HC3-GEN2-5GC	Apr 22, 2021	Apr 22, 2022	760ceb6a-c919	1 of 4 available	Expired
	Tags		SMT-HC3-GEN2-GTPMAX-SW-TM	apf flowrule-gtp	Internal	HC3-GEN2-GTP	Apr 22, 2021	Apr 22, 2022	7228d9a9-30ac	4 of 4 available	Expired

This license includes the following applications:

- ERSPAN
- Geneve

- Slicing
- Masking
- Trailer
- Tunneling
- Load Balancing
- Enhanced Load Balancing
- Flowmap
- Header-stripping
- Add header

NOTE: There is no grace period for the trial license. If you do not have any other Volume-based licenses installed, then after 30 days, on expiry of the trial license, any deployed monitoring sessions will be undeployed from the existing V series 2.0 nodes.

To deactivate the trial VBL refer to Delete Default Trial Licenses section for details.

Apply License

For instructions on how to generate and apply license refer to the GigaVUE Administration Guide.

Install and Upgrade GigaVUE-FM

You can install and upgrade the GigaVUE Cloud Suite[®] Fabric Manager (GigaVUE-FM) on cloud or on-premises.

- Cloud –To install GigaVUE-FM in Nutanix Prism Central Platform, you must 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.

Configure Components in Nutanix

This chapter describes how to configure GigaVUE V Series Node and GigaVUE V Series Proxy in your environment. Refer to the following sections for details:

- Before You Begin
- Upload Fabric Images
- Install GigaVUE-FM on Nutanix
- Configure GigaVUE Cloud Suite Fabric Components in GigaVUE-FM

Before You Begin

This section describes the requirements and prerequisites to configure the GigaVUE Cloud Suite for Nutanix. Refer to the following section for details.

- Prerequisites
- Minimum Compute Requirements
- Network Firewall Requirements

Prerequisites

The following are the prerequisites for configuring GigaVUE-FM and fabric images in Nutanix.

- You must upload the GigaVUE-FM image and fabric image (GigaVUE® V Series Node) files in the Prism Central repository. Do not use the Prism Element to upload the GigaVUE-FM image and fabric image files.
- Assigning a Static IP on Gigamon Fabric Nodes is not supported and the management subnet selection must be DHCP enabled.
- Only one GigaVUE® V Series Node can be deployed per Nutanix Node.
- For GigaVUE Cloud Suite-FM to orchestrate the solution, the minimum requirement that the Nutanix admin account must be a **Prism Central Admin** on Prism Central and a **Cluster Admin** on individual clusters. The password must set to be the same across the environment if they are locally managed. Alternatively, if the Nutanix Prism Central is configured with external authentication like AD/LDAP then you can avoid replicating the manual password creation across the environment.
- Ensure that appropriate Nutanix fabric images are uploaded.
- You must create a subnet and security group. For more information on creating a subnet, see Configuring Network Connections.

Default Login Credentials

You can login to the GigaVUE V Series Node, GigaVUE V Series proxy, and G-vTAP Controller by using the default credentials.

Product	Login credentials
GigaVUE V Series Node	You can login to the GigaVUE V Series Node by using ssh. The default username and password is:
	Username: gigamon
	Password: Gigamon123!
GigaVUE V Series	You can login to the GigaVUE V Series proxy by using ssh. The default username and password is:
proxy	Username: gigamon
	Password: Gigamon123!
G-VTAP Controller	You can login to the GigaVUE V Series proxy by using ssh. The default username and password is:
	Username: ubuntu
	Password: ubuntu

Minimum Compute Requirements

The minimum recommended 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 be able to access the V Series Nodes directly or a GigaVUE V Series Proxy that will relay the commands to the GigaVUE V Series Nodes.

Network Firewall Requirements

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

Direction	Туре	Protocol	Port	CIDR	Purpose
GigaVUE-FM					
Inbound	HTTPS	ТСР	443	Anywhere Any IP	Allows GigaVUE® V Series Nodes, GigaVUE V Series Proxy, and GigaVUE-FM administrators to communicate with GigaVUE-FM
Inbound	SSH	ТСР	22	Anywhere	Allows GigaVUE® V Series

GigaVUE Cloud Suite for Nutanix–GigaVUE V Series 2 Guide

Direction	Туре	Protocol	Port	CIDR	Purpose
				Any IP	Nodes, GigaVUE V Series Proxy, and GigaVUE-FM administrators to communicate with GigaVUE-FM
Outbound	Custom TCP Rule	ТСР	9902	GigaVUE V SeriesProxy IP	Allows GigaVUE-FM to communicate with GigaVUE V SeriesProxy.
Outbound	Custom TCP Rule	ТСР	9440	Prism Central IP	Allows GigaVUE-FM to communicate with Prism Central.
GigaVUE V Serie	es Node			·	
Inbound	Custom TCP Rule	ТСР	9903	GigaVUE V SeriesProxy IP	Allows GigaVUE V Series Proxy to communicate with GigaVUE® V Series Nodes
Outbound	Custom UDP Rule	UDP	 VXLAN (default 4789) L2GRE (IP 47) 	Tool IP	Allows GigaVUE® V Series Node to communicate and tunnel traffic to the Tool
Outbound	Custom ICMP Rule	ICMP	-	Tool IP	Allows GigaVUE® V Series Node to health check the tool traffic

Upload Fabric Images

The recent GigaVUE V Series Node and GigaVUE-FM image file can be downloaded from Gigamon Customer Portal. After fetching the images, upload the fabric images to Prism Central. Select all the available clusters as placements while uploading fabric images.

Upload the appropriate Nutanix image file.

Once the images are uploaded, you can view the images under **Virtual Infrastructure > Images** in the Nutanix console.

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:

- Install GigaVUE-FM on Nutanix
- Create a Monitoring Domain
- Configure GigaVUE Cloud Suite Fabric Components in GigaVUE-FM
- Configure Monitoring Sessions

Install GigaVUE-FM on Nutanix

To launch the GigaVUE-FM instance from the Prism Central:

- 1. Log in to the Gigamon Customer Portal and click on Software and Release Notes.
- 2. Then, search qcow2 in the search file field.
- 3. Use the **Filter by** option to filter your search by Product, Release, Release Type and Release date. Select GigaVUE-FM as the product, and the enter the release version in the release field.
- 4. The QCOW2 file appears in the list view. Click on the latest QCOW2 file to download it.
- 5. Log in to Prism Central.
- 6. In Prism Central, select Dashboard > Virtual Infrastructure > VMs. The VMs page appears.

NOTE: You can view the uploaded images under **Virtual Infrastructure > Images**. For more detailed information on how to upload fabric images refer Upload Fabric Images topic in the *GigaVUE Cloud Suite for Nutanix Guide–GigaVUE-VM Guide*..

7. On the VMs page, click Create VM. The Create VM window appears.

NOTE: If the device has more than one cluster, select the required cluster in the **Cluster Selection** window.

8. Enter or select the values as described in the following table.

Field	Description
General Configuration	Name–Enter a name for the VM.
	Description Enter description for the VM. (optional)
	Timezone-Select the time zone from the drop-down list.
Compute Details	 vCPU(s)-number of vCPUs required. Minimum value is 2vCPUs. However, the recommended value is 4vCPUs.
	Number Of Cores Per vCPU-number of cores per vCPU.
	• Memory —memory size of the vCPU(s). Minimum value is 16GB.

Field	Description
Disks	Add, edit or delete the disks. Add the GigaVUE-FM qcow2 disk image and a Container (second disk), minimum of 40GB for the VM. Select the primary image (GigaVUE-FM qcow2) as Boot Device.
Network Adapters (NIC)	Add a minimum of 1 vNIC for traffic management.
VM Host Affinity (Optional)	Set Affinity by choosing the required nodes to run GigaVUE-FM or a particular VM.

- 9. Click Save and the new VM appears on the VMs list with the Power State as Off.
- 10. Select the new VM and then select Actions > Power On. The new VM is now Active.
- 11. Select the new VM and then select **Actions > Launch console**. The GigaVUE-FM console appears.
- 12. Log in to the GigaVUE-FM console as admin with the user name as admin and default password admin123A!! and you are requested to change the password.

NOTE: You can also choose to perform the IP Networking and NTP configurations by running the **fmctl jump-start** command after you power on the GigaVUE-FM instance. Refer to Perform Network Configurations topic in the *GigaVUE-FM Installation and Upgrade Guide* for more details on how to use **fmctl jump-start** to perform the initial network configuration.

You can also log in to GigaVUE-FM by logging in to WebUI using the configured IP address using the default user name **admin** and the default password admin123A!!.

Create a Monitoring Domain

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

NOTE: To configure the monitoring domain and launch the fabric components in Nutanix Prism, you must be a user with **Admin** role or a user with write access to the **Cluster Management** category.

To create a Monitoring Domain:

- 1. Go to Inventory > Virtual> Nutanix and then click 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 as shown in the following table.

Field	Action
Monitoring Domain	Enter a monitoring domain name.
Connection Alias	An alias used to identify the monitoring domain.
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
Nutanix Prism Central IP	Enter the Nutanix Prism Central IP address.
Nutanix Prism Central Username	Enter the username.
Nutanix Prism Central Password	Enter the password
Cluster	Select the cluster where the GigaVUE V Series Proxy and GigaVUE® V Series Node are to be deployed.
Traffic Acquisition tunnel MTU	Enter the Tunnel MTU size.

4. Click Save. The Nutanix Fabric Launch Configuration page appears.

Configure GigaVUE Cloud Suite Fabric Components in GigaVUE-FM

You must establish a connection between GigaVUE-FM and your Prism environment before you can perform the configuration steps for 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

The fabric images (GigaVUE V Series Proxy and GigaVUE® V Series Node) are launched by GigaVUE-FM based on the configuration made in 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, do the following:

- 1. After Nutanix Configuration in GigaVUE-FM, you are navigated to Nutanix Fabric Launch Configuration page.
- 2. On the Nutanix Fabric Launch Configuration page, enter or select the following information.

Field	Description		
Cluster	Select the cluster where the GigaVUE V Series Proxy and GigaVUE® V Series Node are to be deployed.		
Configure a V Series Proxy (Optional)	Select this option to configure a V Series Proxy.		
GigaVUE® V Series Node	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.		
	 Manangement Subnet—The subnets registered in Prism Central are listed. Select a management subnet as specified in the Prerequisites. 		
	 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) 		

3. Click **Save & Configure Next Cluster** to configure next Cluster, O rClick **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 node, click on a V Series fabric node, and a quick view of the Fabric Launch Configuration appears on the Monitoring Domain page.

Configure Monitoring Sessions

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 that 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 and based on the selection criteria, the detected target VMs are added into your monitoring session. Similarly, when a traffic monitoring target VM is removed, it updates the monitoring sessions to show the removed instance. Before deploying a monitoring session, you need to deploy a V Series node in each host where you want to monitor the traffics.

Refer to the following topics for details:

- Create a Monitoring Session
- Create Ingress and Egress Tunnel
- Create a New Map

- Add Applications to Monitoring Session
- To deploy the monitoring session:
- View Monitoring Session Statistics
- Visualize the Network Topology

Create a Monitoring Session

GigaVUE-FM automatically collects inventory data on all target instances available in your cloud environment. You can design your monitoring session to include or exclude the instances that you want to monitor. You can also choose to monitor egress, ingress, or all traffic.

When a new target instance is added to your cloud environment, GigaVUE-FM automatically detects and adds the instance into your monitoring session. Similarly, when an instance is removed, it updates the monitoring sessions to show the removed instance.

NOTE: You can have multiple monitoring sessions per monitoring domain.

You can create multiple monitoring sessions within a monitoring domain.

To create a new monitoring session:

- 1. In GigaVUE-FM, on the left navigation pane, select **Traffic > Virtual > Orchestrated Flows > Nutanix**. The **Monitoring Sessions** page appears.
- 2. Click New to open the Create a New Monitoring Session page.

Create A New Monitoring Session

Alias	Alias
Monitoring Domain	Full_Orchestration -
Cluster	Select All Select None
	Select cluster

Create	Cancel

3. Enter the appropriate information for the monitoring session as described in the following table.

Field	Description
Alias	The name of the monitoring session.
Monitoring Domain	The name of the monitoring domain that you want to select.
Cluster	The cluster(s) that are to be included as part of the monitoring domain. You can select the required cluster that need to be part of the monitoring domain.

4. Click **Create**. The Monitoring Session details page appears displaying the specified session information and target VMs. .

Create Ingress and Egress Tunnel

Traffic from the V Series 2 node is distributed to tunnel endpoints in a monitoring session. A tunnel endpoint can be created using a standard L2GRE, VXLAN, UDPGRE, or ERSPAN tunnel.

To create a new tunnel endpoint:

- 1. After creating a new monitoring session, or click **Edit** on an existing monitoring session, the GigaVUE-FM canvas appears.
- 2. In the canvas, select **New > New Tunnel**, drag and drop a new tunnel template to the workspace. The **Add Tunnel Spec** quick view appears.

3. On the New Tunnel quick view, enter or select the required information as described in the following table.

Field	Description			
Alias	The name of the tunnel endpoint.			
	NOTE: Do not enter spaces in the alias name.			
Description	The description of the tunnel endpoint.			
Туре	The type of the tunnel. Select ERSPAN, or L2GRE, or VXLAN, or UDPGRE to create a tunnel.			
Traffic Direction	 The direction of the traffic flowing through the V Series node. Choose In (Decapsulation) for creating an Ingress tunnel, traffic from the source to the V Series node. Enter values for the Key. Choose Out (Encapsulation) for creating an Egress tunnel from the V Series node to the destination endpoint. Select or enter values for MTU, Time to Live, DSCP, PREC, Flow Label, and Key. ERSPAN, L2GRE, UDPGRE, and VXLAN are the supported Ingress tunnel types. You can configure Tunnel Endpoint as your first level entity in Monitoring Session. 			
	L2GRE and VXLAN are the supported Egress tunnel types.			
IP Version	The version of the Internet Protocol. Select IPv4 or IPv6.			
Remote Tunnel IP	For Ingress tunnel, Remote Tunnel IP is the IP address of the tunnel source. For Egress tunnel, Remote Tunnel IP is the IP address of the tunnel destination endpoint.			

4. Click Save.

To delete a tunnel, select the required tunnel and click **Delete**.

Create a New Map

You must have the flow map license to deploy a map in monitoring session.

For new users, the free trial bundle will expire after 30 days and the GigaVUE-FM prompts you to buy a new license. For detailed information on GigaVUE-FM licenses, refer to "Licenses" section in the *GigaVUE Administration Guide*.

To create a new map:

- 1. After creating a new monitoring session, or click **Edit** on an existing monitoring session, the GigaVUE-FM canvas appears.
- 2. In the canvas, select **New > New Map**, drag and drop a new map template to the workspace. The New Map quick view appears.

Monitoring Se	ession	X New Map Save Add to Library
✓ NEW		
E 🖷	<u></u>	Name Name
New Map New Tunnel	•	Description Description
V MAP LIBRARY	а. Е	Мар
E	·	Rules
Man1	 Image: A state of the state of	Priority 1-5 Application Endpoint ID 2
✓ APPLICATIONS	Q	
00	Î	Add a Rule
Slicing Masking	· · · · · · · · · · · · · · · · · · ·	Rule 1 Condition search ▼ ● Pass ○ Drop
✓ TUNNELS	Q	
Tunnel1 Tunnel2	· · · · · · · · · · · · · · · · · · ·	

3. On the New Map quick view, enter or select the required information as described in the following table.

Field	Description			
Name	Name of the new map			
Comments	Description of the map			
Map RulesThe rules for filtering the traffic in the map. Through the map, p be dropped or passed based on the highest to lowest rule prior add multiple rule sets on a map. Use the + and - buttons to add a rule set in the map. A rule set can have only 5 rules per map a conditions per map. To add ATS rules for an Inclusion/Exclusion must select atleaset one rule condition. To add a map rule:				
	a. Enter a Priority value from 1 to 5 for the rule with 5 being the highest and 1 is the lowest priority.			
	b. Click Add a Rule. The new rule field appear for the Application Endpoint.			
	c. Select a required condition from the drop-down list.			
	d. Select the rule to Pass or Drop through the map.			
	 If two rules with same condition are configured as pass and drop, on a same tunnel endpoint, the traffic filtering precedence will be based on the priority value. on two different tunnel endpoints, the traffic will be passed or dropped to the respective tunnel endpoints. For detailed information on filtering fragmented and unfragmented packets, refer to "GigaSMART Adaptive Packet Filtering (APF)" section on the <i>GigaVUE Fabric Management Guide</i>. 			
type as follo	Drop rule selection with Automatic Target Selection (ATS) differ with the Map ows: Map–Only Pass rules for ATS			

- Inclusion Map–Only Pass rules for ATS
- ° Exclusion Map–Only Drop rules for ATS
- 4. To reuse the map, click Add to Library. Save the map using one of the following ways:
 - a. Select an existing group from the Select Group list or create a New Group with a name.
 - b. Enter a description in the Description field, and click Save.
- 5. Click Save.

NOTE: If a packet is fragmented then all the fragments will be destined to the same application end point. You can find the stats of mapped fragmented traffic in GigaVUE-FM. Refer to "Map Statistics" section in *GigaVUE Fabric Management Guide* for detailed information.

To edit a map, select the map and click **Details**, or click **Delete** to delete the map.

Add Applications to Monitoring Session

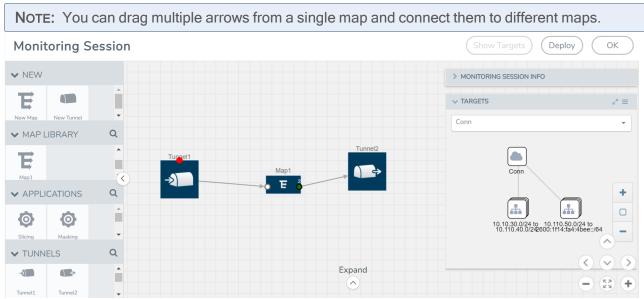
GigaVUE Cloud Suite with GigaVUE V Series 2 node supports the following GigaSMART applications in the GigaVUE-FM canvas:

- Slicing
- Masking
- De-duplication
- Load Balancing

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

To deploy the monitoring session:

- 1. Drag and drop the following items to the canvas as required:
 - 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. After placing the required items in the canvas, hover your mouse on the map, click the red dot, and drag the arrow over to another item (map, application, or tunnel).



3. Click **Show Targets** to view details about the subnets and monitored instances. The instances and the subnets that are being monitored are highlighted in orange.

- 4. Click **Deploy** to deploy the monitoring session. The status is displayed as **Success** in the Monitoring Sessions page. The session is successfully deployed on all the V Series nodes. Click on the status link in the Status column on the Monitoring Session page to view the Monitoring Session Deployment Report. When you click on the Status link, the Deployment Report is displayed. If the monitoring session is not deployed properly, then one of the following errors is displayed in the Status column.
 - Partial Success—The session is not deployed on one or more instances due to V Series node failure.
 - Failure–The session is not deployed on any of the V Series nodes.
 - The Monitoring Session Deployment Report displays the errors that appeared during deployment.

Button	Description	
Undeploy	Undeploys the selected monitoring session.	
Clone	Duplicates the selected monitoring session.	
Edit	Opens the Edit page for the selected monitoring session.	
	NOTE: In case of an error while editing a monitoring session, undeploy and deploy the monitoring session again.	
Delete	Deletes the selected monitoring session.	

The Monitoring Session page also has the following buttons:

View Monitoring Session Statistics

The Monitoring Session Statistics page lets you analyze the incoming and outgoing traffic on an hourly, daily, weekly, and monthly basis. The traffic can be viewed based on kilobits/second, megabits/second or gigabits/second.

On the Monitoring Sessions page, click **View** in the Statistics column to view the Monitoring Session Statistics page. The **Monitoring Session Statistics** page appears where you can analyze incoming and outgoing traffic.

NOTE: If there are multiple monitoring sessions with different target selection, then the incoming maps will not show true statistics and it shows the aggregate traffic from all the targets.



You can also perform the following actions on the Monitoring Session Statistics page:

- Directly below the graph, you can click on **IncomingMbps**, **Outgoing Mbps**, or **Ratio (Out/In) (Mbps)** to view the statistics individually.
- At the bottom of the Monitoring Session Statistics page, you can click on View Monitoring Session Diagram. The Monitoring Session Diagram quick view appears.
- On the **Monitoring Session Diagram** page, you can expand any map, or tunnel to open a **Details** quick view of that item to see more details about the incoming and outgoing traffic for that item.
- You can also scroll down the Map **Details** quick view to view the Map Rules, Action Sets, and Map Info for this map. You can select Map Rules or Action Sets to view the traffic matching the selected rule on the graph in the quick view.
- You can also view the statistics of the monitoring session deployed in the individual V Series Nodes. To
 view the statistics of the individual V Series Node, select the name of the V Series Node for which you
 want to view the statistics from the V Series Node drop-down menu on the top left-corner of the
 Monitoring Session Statistics page.
- Hover over the V Series Node drop-down to view the number of the applications, end points, and other application environments configured for a particular V Series Node. It also displays the error message related to configuration for the particular V Series Node.
- Raw EndPoint (REP) is a part of the monitoring session but can also receive the bypassed traffic that is not filtered by the map, so it is recording more packets than expected. For example, if the map has a rule as IPv4, but the REP can receive the bypassed (non-ipv4) traffic. The recorded number of packets from the V Series node can be more than expected.

Visualize the Network Topology

You can have multiple connections in GigaVUE-FM. Each connection can have multiple monitoring sessions configured within them. You can select the connection and the monitoring session to view the selected subnets and instances in the topology view.

To view the topology diagram in GigaVUE-FM:

- 1. On the Monitoring Session page, select **Topology** tab. The Topology page appears.
- 2. Select a monitoring domain from the Select monitoring domain... list.
- 3. Select a connection from the **Select monitoring session...**list.
- 4. Select a monitoring session from the **Select connection...** list. The topology view of the monitored subnets and instances in the selected session are displayed.



5. (Optional) Hover over or click the subnet or VM Group icons to view the subnets or instances present within the group.

In the topology page, you can also do the following:

- Use the **Filter** button to filter the instances based on the VM name, VM IP, 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 monitoring instances.
- Use the arrows at the right-bottom corner to move the topology page up, down, left, or right. Click the **Fit-to-Width** icon to fit the topology diagram according to the width of the page.
- Use + or icons to zoom in and zoom out the topology view.

Cloud Health Monitoring

GigaVUE-FM allows you to monitor the configuration health status of the entire monitoring session and also the individual fabric components for which monitoring session is configured. This feature provides detailed information about the configuration and deployment status of the deployed monitoring session.

This feature is supported for the following fabric components and features on the respective cloud platforms:

For V Series Nodes:

- AWS
- Azure
- OpenStack
- VMware
- Nutanix

For G-vTAP Agents:

- AWS
- Azure
- OpenStack

For VPC Mirroring:

• AWS

For OVS Mirroring and VLAN Trunk Port:

OpenStack

View Monitoring Session Configuration Health

You can view the configuration status of the monitoring session and the components deployed, in the monitoring session page. This section provides information about the configuration health status of the various fabric components deployed in the monitoring session.

The following columns in the monitoring session page are used to convey the configuration health status:

Health

This column displays the configuration health status of the entire monitoring session.

The error message associated with monitoring session configuration appears when you hover over the health column. You can use the error message to help you troubleshoot and identify the components that are in conflict or mis-configured.

V Series Node Health

This column displays the configuration health status of the monitoring session deployed in V Series Nodes. This column provides information on the number of monitoring sessions successfully deployed on a particular V Series Node to the total number of monitoring session deployed on that particular V Series Node.

You can view the health status of the individual V Series Nodes and also the error message associated with them, by clicking on the V Series Node Health column.

NOTE: V Series node health only displays the configuration health status therefore even if the V Series Node is down it will not be reflected in the monitoring session page.

Image: state		Statistics	▲ Health	V Series Nodes Health		Deployment Status	Clone Edit	Delete Export •
✓ ✓ MD_1		Statistics	▲ Health	V Series Nodes Health	VPCs	Deployment Status	Number of Targets	Targets Source
✓ ✓ MD_1								
· ·								
	MS1	View	⊘ Ok	1 of 1 are healthy				
					systest-vpc-1	⊘ Success	6	2 of 2 are healthy
Go to page:	▼ of1 >>	Total Records: 3						
V Series Nodes Health								×
V Series Node		Management IP		Version		Health		\oplus
Gigamon-VSeriesNode-1		35.81.209.115		2.6.0		📀 Ok		

Target Source Health

This column displays the configuration health status of the monitoring session deployed in targets. This column provides information on the number of monitoring sessions successfully deployed on a particular target to the total number of monitoring session deployed on that particular target.

You can view the health status of the individual targets and also the error message associated with them, by clicking on the Target Source Health column.

View Monitoring Session Statistics

You can now view the statistics of the monitoring session deployed in the individual V Series Nodes. To view the statistics of the individual V Series Node, select the name of the V Series Node for which you want to view the statistics from the V Series Node drop-down menu on the top left-corner of the Monitoring Session Statistics page.

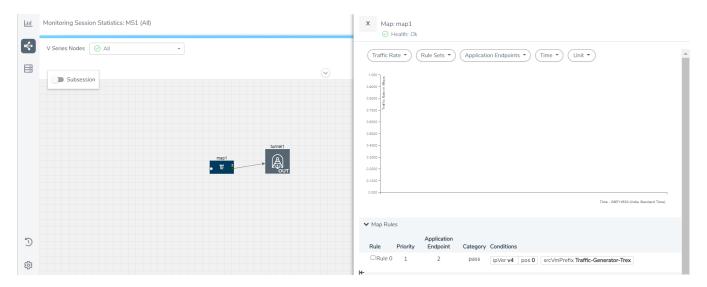
Hover over the V Series Node drop-down to view the number of the applications, end points, and other application environments configured for a particular V Series Node. It also displays the error message related to configuration for the particular V Series Node.

View Monitoring Session Diagram

The Monitoring Session diagram page displays the applications and end points deployed in a particular monitoring session in pictorial form. To view the statistics of a particular application or an endpoint, click on the application icon for which you want to view the statistics. You can also view the statistics of a particular application for an individual V Series Node by selecting the name of the V Series Node for which you want to view the statistics from the V Series Node drop-down menu on the top left-corner of the Monitoring Session page.

When you select a V Series Node from the V Series Node drop-down, the application icon displays the name of that particular application as configured in the V Series Node.

The subsession toggle button available in the top-left corner of the canvas allows you to view the statistics of individual paths in the monitoring session.



Fabric Health Analytics for Virtual Resources (BETA)

Fabric Health Analytics is delivered as BETA in software version 5.16.00 and is subject to change in the upcoming release(s).

Fabric Health Analytics (FHA) in GigaVUE-FM is a standalone service that provides data visualization capabilities. Using FHA¹ 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 FHA. Dashboards, Visualizations and Search Objects are called FHA objects. Refer to Fabric Health Analytics BETA topic in *GigaVUE Fabric Management Guide* for more detailed information on Fabric Health 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 for more details.
- Use the Time Filter option to select the required time interval for which you need to view the visualization.

Virtual Inventory Statistics and Cloud Applications Dashboard

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

To access the dashboards:

- 1. Go to -> Analytics -> Dashboards.
- 2. Click on the required dashboard to view the visualizations.

The following table lists the various virtual dashboards:

¹FHA uses the Kibana front-end application to visualize and analyze the data in the Elasticsearch database of GigaVUE-FM. Kibana is an open source data visualization plugin for Elasticsearch.

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: Number of Monitoring Sessions Number of V Series Nodes Number of Connections Number of GCB Nodes 	V Series Node Status by Platform	Number of healthy and unhealthy V Series Nodes for each of the supported cloud platforms.
	You can filter the visualizations based on the following control filters: • Platform • Health Status	Monitoring Session Status by Platform	Number of healthy and unhealthy monitoring sessions for each of the supported cloud platforms
		Connection Status by Platform	Number of healthy and unhealthy connections for each of the supported cloud platforms
		GCB Node Status by Platform	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 based on the following control filters: Platform Connection V Series Node 	V Series Node Maximum CPU Usage Trend	Line chart that displays maximum CPU usage trend of the V Series node in 5 minutes interval, for the past one hour.
			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.
		V Series Node with Most CPU Usage For Past 5 minutes	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.

Dashboard	Displays	Visualizations	Displays
		V Series Node Rx Trend	Receiving trend of the V Series node in 5 minutes interval, for the past one hour.
		V Series Network Interfaces with Most Rx for Past 5 mins	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.
		V Series Node Tunnel Rx Packets/Errors	Displays the reception of packet at the Tunnel RX. This is the input to V Series Node, Grouping by tunnel identifier comprising {monDomain, conn, VSN, tunnelName}, before aggregation.
		V Series Node Tunnel Tx Packets/Errors	TX is for output tunnels from VSN. V Series Node Tunnel Tx Packets/Errors
Dedup	Displays visualizations related to Dedup application. You can filter the visualizations based on the following control filters: • Platform • Connection • VSeries Node	Dedup Packets Detected/Dedup Packets Overload	Statistics of the total dedup packets received (ipV4Dup, ipV6Dup and nonIPDup) against the dedup application overload.
		Dedup Packets Detected/Dedup Packets Overload Percentage	Percentage of the dedup packets received against the dedup application overload.
		Total Traffic In/Out Dedup	Total incoming traffic against total outgoing traffic
Tunnel (Virtual)	Displays visualizations related to the tunneled traffic in both bytes as well as the number of packets. You can select the following control filters, based on which the visualizations	Tunnel Bytes	Displays received tunnel traffic vs transmitted tunnel traffic, in bytes. • For input tunnel, transmitted traffic in
	will get updated:		transmitted traffic is displayed as zero.

Dashboard	Displays	Visualizations	Displays
	 Monitoring session: Select the required monitoring session. The cloud platform, monitoring domain and connection within the monitoring domain that is used by the V-series node are shown in square brackets, comma-separated, after the name, to distinguish the whole path to it. V series node: Management IP of the V Series node. Choose the required V-series node from the drop-down. Tunnel: Select any of the tunnels shown in the Tunnel drop-down. The direction for each tunnel is obsure with the profix in or out 		 For output tunnel, received traffic is displayed as zero.
	tunnel is shown with the prefix in or out. The following statistics are displayed for the tunnel: • Received Bytes • Transmitted Bytes • Received Packets • Transmitted Packets • Received Errored Packets • Received Dropped Packets • Transmitted Errored Packets • Transmitted Dropped Packets	Tunnel Packets	Displays packet-level statistics for input and output tunnels that are part of a monitoring session.
App (Virtual)	 Displays Byte and packet level statistics for the applications for the chosen monitoring session on the selected V series node. You can select the following control filters, based on which the visualizations will get updated: Monitoring session V series node Application: Select the required application. By default, the visualizations. By default, the following statistics are displayed: Received Bytes Transmitted Bytes 	App Bytes	Displays received traffic vs transmitted traffic, in Bytes.

GigaVUE Cloud Suite for Nutanix–GigaVUE V Series 2 Guide

Dashboard	Displays	Visualizations	Displays
	Received PacketsTransmitted Packets	App Packets	Displays received traffic vs
	Errored PacketsDropped Packets		transmitted traffic, as the number of packets.
End Point (Virtual)	Displays Byte and packet level statistics for the un-tunneled traffic deployed on the V-series nodes. The following statistics that are shown for Endpoint (Virtual):	Endpoint Bytes	Displays received traffic vs transmitted traffic, in Bytes.
	 Received Bytes Transmitted Bytes Received Packets Transmitted Packets Received Errored Packets Received Dropped Packets 		
	 Transmitted Errored Packets Transmitted Dropped Packets The endpoint drop-down shows <<i>V</i>-series Node Management IP address : Network Interface> for each endpoint. 	Endpoint Packets	Displays received traffic vs transmitted traffic, as the number of packets.
	You can select the following control filters, based on which the visualizations will get updated: • Monitoring session		
	 V Series node Endpoint: Management IP of the V Series node followed by the Network Interface (NIC) 		

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 Elasticsearch 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 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.

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
Physical Device Infrastructure Management: This includes the following cloud infrastructure resources: • Cloud Connections	 Configure GigaVUE Cloud Components Create Monitoring Domain and Launch Visibility Fabric
 Cloud Connections Cloud Fabric Deployment Cloud Configurations Sys Dump Syslog Cloud licenses Cloud Inventory 	
 Traffic Control Management: This includes the following traffic control resources: Monitoring session Stats Map library Tunnel library Tools library Inclusion/exclusion Maps 	 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 node, VM Domain, and VM manager. An event is an incident that occur at a specific point in time. Examples of events include:

- Cloud provider License Expiry
- G-vTAP Agent 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 could be your cloud provider license expiry.

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

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

Events							Filter Manage
Events: 60) Filter	: none					
Source	Time	Scope	Event Type	Severity	Affected Entity Type Affected Entity	Description Device IP Host N	ame Tags 🕀
VMM	202	vfNode	NodeUp	Info	Fabric Node Spec	Node Up	^
VMM	202	vfNode	NodeReb	Info	Fabric Node Spec	Reboot fo	
VMM	202	vfNode	NodeUnr	Info	Fabric Node Spec	Node Unr	
K	< Go	to page:	1 🔻 of 9	\rightarrow	>I Total Records: 60		

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 alarms and events are generated.	
Time	The timestamp when the event occurred.	
	IMPORTANT: Timestamps are shown in the time zone of the client browser's computer and not the timezone 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 timezone.	
Scope	The category to which the alarms or events belong. Alarms and events can belong to the following category: Virtual Fabric Node, VM Domain, VM Manager.	
Event Type	The type of event that generated the alarms and events.	
Severity	The severity is one of Critical, Major, Minor, or Info.	
	Info is informational messages. For example, when GigaVUE V Series nodes are installed, such a message is displayed as Info.	
Affected Entity Type	The resource type associated with the alarm or event.	
Affected Entity	The resource ID of the affected entity type.	
Description	The description of the event, which includes any of the possible notifications with additional identifying information where appropriate.	
Device IP	The IP address of the device.	
Host Name	The host name of the device.	

To filter the alarms and event:

- 1. Click Filter. The Filter quick view is displayed.
- 2. Select the filtering criteria, then click **Apply Filter**. The results are displayed in the Events page.

About Audit Logs

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

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

>1

All Aud	it Logs							Filte	r Mana	ge
Filter : nc	one									
Time	User	Operation Type	Entity Type	Source	Device IP	Hostname	Status	Description	Tags	\oplus
2020-1	admin	login fmUser ad	User	fm			SUCCESS			4
2020-1	admin	logout fmUser a	User	fm			SUCCESS			
2020-1	admin	login fmUser ad	User	fm			SUCCESS			
1000 1	a alteration	and the second second second	KA the the				CLICCECC			_

Total Records: 106

The Audit Logs have the following parameters:

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Parameters	Description	
Time	Provides the timestamp on the log entries.	
User	Provides the logged user information.	
Operation Type	 Provides specific entries that are logged by the system such as: Log in and Log out based on users. Create/Delete/Edit tasks, GS operations, maps, virtual ports, and so on. 	
Source	Provides details on whether the user was in FM or on the node when the event occurred.	
Status	Success or Failure of the event.	
Description	In the case of a failure, provides a brief update on the reason for the failure.	

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

Filtering the audit logs allows you to display specific type of logs. You can filter based on any of the following:

- When: display logs that occurred within a specified time range.
- Who: display logs related a specific user or users.

- What: display logs for one or more operations, such as Create, Read, Update, and so on.
- Where: display logs for GigaVUE-FM or devices.
- **Result**: display logs for success or failure.

To filter the audit logs, do the following:

- 1. Click Filter. The quick view for Audit Log Filters displays.
- 2. Specify any 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, either FM or device. Select All Systems apply both 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. Click **OK** to apply the selected filters to the Audit Logs page.

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 VÜE 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 6.2 Hardware and Software Guides

DID YOU KNOW? If you keep all PDFs for a release in common folder, you can easily search across the doc set by opening one of the files in Acrobat and choosing **Edit > Advanced Search** from the menu. This opens an interface that allows you to select a directory and search across all PDFs in a folder.

Hardware

how to unpack, assemble, rack-mount, connect, and initially configure ports the respective GigaVUE Cloud Suite devices; reference information and specifications for the respective GigaVUE Cloud Suite devices

GigaVUE-HC1 Hardware Installation Guide

GigaVUE-HC2 Hardware Installation Guide

GigaVUE-HC3 Hardware Installation Guide

GigaVUE-HC1-Plus Hardware Installation Guide

GigaVUE-TA25E Hardware Installation Guide

GigaVUE-TA200E Hardware Installation Guide

GigaVUE-TA25 Hardware Installation Guide

GigaVUE-TA200 Hardware Installation Guide

GigaVUE-TA400 Hardware Installation Guide

GigaVUE-TA10 Hardware Installation Guide

GigaVUE Cloud Suite 6.2 Hardware and Software Guid	les
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GigaVUE-TA40 Hardware Installation Guide

GigaVUE-TA100 Hardware Installation Guide

GigaVUE-TA100-CXP 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 Appliance Guide for GFM-HW1-FM010 and and GFM-HW1-FM001-HW

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

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 V Series Quick Start Guide

GigaVUE Cloud Suite for AWS-GigaVUE V Series 2 Guide

GigaVUE Cloud Suite for Azure-GigaVUE V Series 2 Guide

GigaVUE Cloud Suite for OpenStack-GigaVUE V Series 2 Guide

*GigaVUE Cloud Suite for Nutanix Guide-GigaVUE V Series 2 Guide

GigaVUE Cloud Suite for VMware-GigaVUE V Series Guide

*GigaVUE Cloud Suite for Third Party Orchestration

GigaVUE Cloud Suite for AnyCloud Guide

Universal Container Tap Guide

GigaVUE Cloud Suite 6.2 Hardware and Software Guides
Gigamon Containerized Broker Guide
GigaVUE Cloud Suite for AWS-GigaVUE V Series 1 Guide
GigaVUE Cloud Suite for Azure-GigaVUE V Series 1 Guide
GigaVUE Cloud Suite for OpenStack-GigaVUE V Series 1 Guide
GigaVUE Cloud Suite for Nutanix Guide–GigaVUE-VM Guide
GigaVUE Cloud Suite for VMware–GigaVUE-VM Guide
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 TA Series devices
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)
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 & 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				
	Your Name			
About You	Your Role			
	Your Company			
	Online doc link	(URL for where the issue is)		
For Online Topics	Topic Heading	(if it's a long topic, please provide the heading of the section where the issue is)		
	-			

	Document Title	(shown on the cover page or in page header)
	Product Version	(shown on the cover page)
For PDF Topics	Document Version	(shown on the cover page)
	Chapter Heading	(shown in footer)
	PDF page #	(shown in footer)
	Describe the issue	Describe the error or issue in the documentation. (If it helps, attach an image to show the issue.)
How can we	How can we improve the content?	
improve?	Be as specific as possible.	
	Any other comments?	
		1

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 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 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)

Μ

member node

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

Ν

no-decrypt list

no need to decrypt (formerly whitelist)

nodecryptlist

no need to decrypt- CLI Command (formerly whitelist)

<u>P</u>_____

primary source

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

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- 1	-
- 1	1

receiver

follower in a bidirectional clock relationship (formerly slave)

S

source

leader in a bidirectional clock relationship (formerly master)