



GigaVUE Cloud Suite for AWS Secret Regions - Deployment Guide

GigaVUE Cloud Suite

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Gigamon Inc.
3300 Olcott Street
Santa Clara, CA 95054
408.831.4000

Change Notes

When a document is updated, the document version number on the cover page will indicate a new version and will provide a link to this Change Notes table, which will describe the updates.

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GigaVUE Cloud Suite For AWS Secret Regions

GigaVUE Cloud Suite for AWS Secret Regions

The GigaVUE Cloud Suite for AWS Secret Regions option consists of the following components:

- **GigaVUE-FM fabric manager**- GigaVUE-FM is a web-based fabric management and orchestration interface that provides a single pane of glass visibility, management, and orchestration of both the physical and virtual traffic that form the GigaVUE Cloud Suite Cloud.
- **GigaVUE V Series Proxy (Optional)** - GigaVUE® V Series Proxy manages multiple V Series nodes and orchestrates the flow of traffic from GigaVUE V Series nodes to the monitoring tools
- **GigaVUE V Series Nodes** - 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 GigaVUE Cloud Suite Cloud using GRE or VXLAN tunnels, provided the cloud platform supports

The images of all the fabric components are available in the [Gigamon Customer Portal](#). For information about installing GigaVUE-FM in your enterprise data center, refer to the *GigaVUE-FM Installation, Migration, and Upgrade Guide*.

Prerequisites

This section lists the minimum requirements that are required for deploying the fabric components:

1. GigaVUE V Series Node requires a minimum of two network interfaces (NIC). Both can be on the same subnet or different subnets.
2. GigaVUE V Series Node requires a minimum of one Management interface (MGMT). Management interface is used for communicating between GigaVUE-FM and V Series Node.
3. GigaVUE V Series Node requires a minimum of one Data/Tunnel interface.
4. The minimum system requirements for V Series Proxy is 2vCPUs/4GB RAM.

Network Firewall Requirement

The following table lists the Network Firewall / Security Group requirements for GigaVUE Cloud Suite:

NOTE: When using dual stack network, open the below mentioned ports for both IPv4 and IPv6.

GigaVUE FM

The following table specifies the inbound and outbound communication parameters—protocols, ports, and CIDRs—required for GigaVUE-FM to support secure access, registration, certificate exchange, and control-plane communication with associated components.

Direction	Protocol	Port	Source CIDR	Purpose
Inbound	TCP	443	Administrator Subnet	Allows GigaVUE-FM to accept Management connection using REST API. Allows users to access GigaVUE-FM UI securely through an HTTPS connection.
Inbound	TCP	22	Administrator Subnet	Allows CLI access to user-initiated management and diagnostics.
Inbound (This is the port used for Third Party)	TCP	443	GigaVUE V Series Node IP	Allows GigaVUE-FM to receive registration requests from GigaVUE V

Orchestration)				Series Node using REST API when GigaVUE V Series Proxy is not used.
Inbound (This is the port used for Third Party Orchestration)	TCP	443	GigaVUE V Series Proxy IP	Allows GigaVUE-FM to receive registration requests from GigaVUE V Series Proxy using REST API.
Inbound	TCP	5671	GigaVUE V Series Node IP	Allows GigaVUE-FM to receive traffic health updates from GigaVUE V Series Nodes.
Inbound	TCP	9600	GigaVUE V Series Proxy	Allows GigaVUE-FM to receive certificate requests from GigaVUE V Series Proxy.
Inbound	TCP	9600	GigaVUE V Series Node	Allows GigaVUE-FM to receive certificate requests from GigaVUE V Series Node.
Inbound	UDP	2056	GigaVUE V Series Node IP	Allows GigaVUE-FM to receive Application Intelligence and Application Visualization reports from GigaVUE V Series Node.
Direction	Protocol	Port	Destination CIDR	Purpose
Outbound (optional)	TCP	8890	GigaVUE V Series Proxy IP	Allows GigaVUE-FM to communicate control and management plane traffic to GigaVUE V Series Proxy.
Outbound	TCP	8889	GigaVUE V Series Node IP	Allows GigaVUE-FM to communicate control and management plane traffic to GigaVUE V Series Node.
Outbound	TCP	80	GigaVUE V Series Node	Allows GigaVUE-FM to send ACME challenge requests to GigaVUE V Series Node.
Outbound	TCP	80	GigaVUE V Series Proxy	Allows GigaVUE-FM to send ACME challenge requests to GigaVUE V Series Proxy.
Outbound	TCP	443	Any IP Address	Allows GigaVUE-FM to reach the Public Cloud Platform APIs.

GigaVUE V Series Node

The following table outlines GigaVUE V Series Node's network communication requirements, detailing protocols, ports, and CIDRs necessary for tunneling, management, diagnostics, and secure data transfer across connected components

Direction	Protocol	Port	Source CIDR	Purpose
Inbound	TCP	8889	GigaVUE-FM IP	Allows GigaVUE V Series Node to communicate control and management plane traffic with GigaVUE-FM.
Inbound	TCP	8889	GigaVUE V Series Proxy IP	Allows GigaVUE V Series Node to communicate control and management plane traffic with GigaVUE V Series Proxy.
Inbound	UDPGRE	4754	Ingress Tunnel	Allows GigaVUE V Series Node to receive tunnel traffic from UDPGRE Tunnel.
Inbound	TCP	22	Administrator Subnet	Allows CLI access for user-initiated management and diagnostics, specifically when using third party orchestration.
Inbound	TCP	80	GigaVUE-FM	Allows GigaVUE V Series Node to receive the ACME challenge requests from GigaVUE-FM.
Inbound	TCP	80	GigaVUE V Series Proxy IP	Allows UCT-V to receive the ACME challenge requests from the GigaVUE V Series Proxy.
Inbound (Optional - This port is used only for configuring AWS Gateway Load Balancer)	UDP (GENEVE)	6081	Ingress Tunnel	Allows GigaVUE V Series Node to receive tunnel traffic from AWS Gateway Load Balancer.
Direction	Protocol	Port	Destination CIDR	Purpose
Outbound	TCP	5671	GigaVUE-FM IP	Allows GigaVUE V Series Node to send traffic health updates to GigaVUE-FM.
Outbound	UDP (VXLAN)	VXLAN (default 4789)	Tool IP	Allows GigaVUE V Series Node to tunnel output to the tool.
Outbound	IP Protocol (L2GRE)	L2GRE (IP 47)	Tool IP	Allows GigaVUE V Series Node to tunnel output to the tool.
Outbound	UDP	2056	GigaVUE-FM IP	Allows GigaVUE V Series Node to send Application Intelligence and Application Visualization

				reports to GigaVUE-FM.
Outbound	UDP	2055	Tool IP	Allows GigaVUE V Series Node to send NetFlow Generation traffic to an external tool.
Outbound	UDP	8892	GigaVUE V Series Proxy	Allows GigaVUE V Series Node to send certificate request to GigaVUE V Series Proxy IP.
Outbound	TCP	514	Tool IP	Allows GigaVUE V Series Node to send Application Metadata Intelligence log messages to external tools.
Bidirectional (optional)	ICMP	<ul style="list-style-type: none"> echo request echo reply 	Tool IP	Allows GigaVUE V Series Node to send health check tunnel destination traffic.
Outbound (This is the port used for Third Party Orchestration)	TCP	443	GigaVUE-FM IP	Allows GigaVUE V Series Node to send registration requests and heartbeat messages to GigaVUE-FM when GigaVUE V Series Proxy is not used.
Outbound (Optional - This port is used only for Secure Tunnels)	TCP	11443	Tool IP	Allows to securely transfer the traffic to an external tool.

Giga VUE V Series Proxy(Optional)

The following table defines GigaVUE V Series Proxy's network communication parameters, listing essential protocols, ports, and CIDRs for registration, certificate exchange, diagnostics, and control-plane traffic with GigaVUE-FM and V Series Nodes.

Direction	Protocol	Port	Source CIDR	Purpose
Inbound	TCP	8890	GigaVUE-FM IP	Allows GigaVUE-FM to communicate control and management plane traffic with GigaVUE V Series Proxy.
Inbound	TCP	22	Administrator Subnet	Allows CLI access for user-initiated management and diagnostics, specifically when using third party orchestration.
Inbound	TCP	80	GigaVUE-FM	Allows GigaVUE V Series Proxy to receive the ACME challenge requests from the GigaVUE-FM.
Inbound	TCP	8300	GigaVUE V Series Node	Allows GigaVUE V Series Proxy to receive certificate requests from GigaVUE V Series Node for the configured params and provides

				the certificate using those parameters.
Inbound	TCP	8892	GigaVUE V Series Node IP	Allows GigaVUE V Series Proxy to receive registration requests and heartbeat messages from GigaVUE V Series Node.
Direction	Protocol	Port	Destination CIDR	Purpose
Outbound	TCP	443	GigaVUE-FM IP	Allows GigaVUE V Series Proxy to communicate the registration requests to GigaVUE-FM.
Outbound	TCP	8889	GigaVUE V Series Node IP	Allows GigaVUE V Series Proxy to communicate control and management plane traffic with GigaVUE V Series Node.

Ports for Backward Compatibility

Ensure to open these ports for backward compatibility when GigaVUE-FM is running version 6.10 or later, and the fabric components are on (n-1) or (n-2) versions.

GigaVUE V Series Node

The following table specifies the outbound communication requirement for GigaVUE V Series Node, detailing the protocol, port, and source CIDR used to send registration and heartbeat messages to the GigaVUE V Series Proxy during third-party orchestration.

Direction	Protocol	Port	Source CIDR	Purpose
Outbound (This is the port used for Third Party Orchestration)	TCP	8891	GigaVUE V Series Proxy IP	Allows GigaVUE V Series Node to send registration requests and heartbeat messages to GigaVUE V Series Proxy when GigaVUE V Series Proxy is used.

GigaVUE V Series Proxy(Optional)

The following table specifies the optional inbound communication parameter for GigaVUE V Series Proxy, detailing the protocol, port, and source CIDR required to receive security parameter requests from GigaVUE V Series Node during third-party orchestration.

Direction	Protocol	Port	Source CIDR	Purpose
Inbound (This is the port used	TCP	8891	GigaVUE V Series Node IP	Allows GigaVUE V Series Proxy to receive security parameter

for Third Party Orchestration)				requests from GigaVUE V Series Node.
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Inline V Series (AWS)

The Inline V Series solution provides an advanced, scalable, agentless traffic acquisition mechanism that integrates seamlessly into your network. By deploying V Series Nodes in inline mode, you can mirror and process traffic efficiently while ensuring the reinjection of production traffic without disruption.

In AWS and Azure environments, the Inline V Series solution leverages Gateway Load Balancers (GWLB) to enable efficient traffic handling and visibility. This feature ensures low-latency performance, making it ideal for continuous traffic inspection and monitoring. Designed for simplicity and operational efficiency, the Inline V Series allows you to gain deep insights into network activity while maintaining high performance in demanding network environments.

You can use this solution for forwarding inline traffic and traffic processing. When traffic reaches the Inline V Series Node, a copy of the packet is taken as out-of-band traffic. You can forward the copied traffic to a GigaVUE V Series Node for additional processing or directly to monitoring tools. During boot-up, the Inline V Series Node initializes with the default Inline application.

A Monitoring Session is required to:

- Tap the inline traffic
- Create a copy for out-of-band forwarding
- Send the traffic to the desired tools.

Inline V Series Deployment Types

Single Tier Deployment

You can use this deployment model when traffic has to be tapped, filtered, and directly sent to tools without any processing.

Multi-Tier Deployment

Use this model when you need to process traffic through GigaVUE V Series applications before forwarding it to the tools. The first tier taps the traffic, and the second tier processes it using the GigaVUE V Series applications and forwards it to the tools.

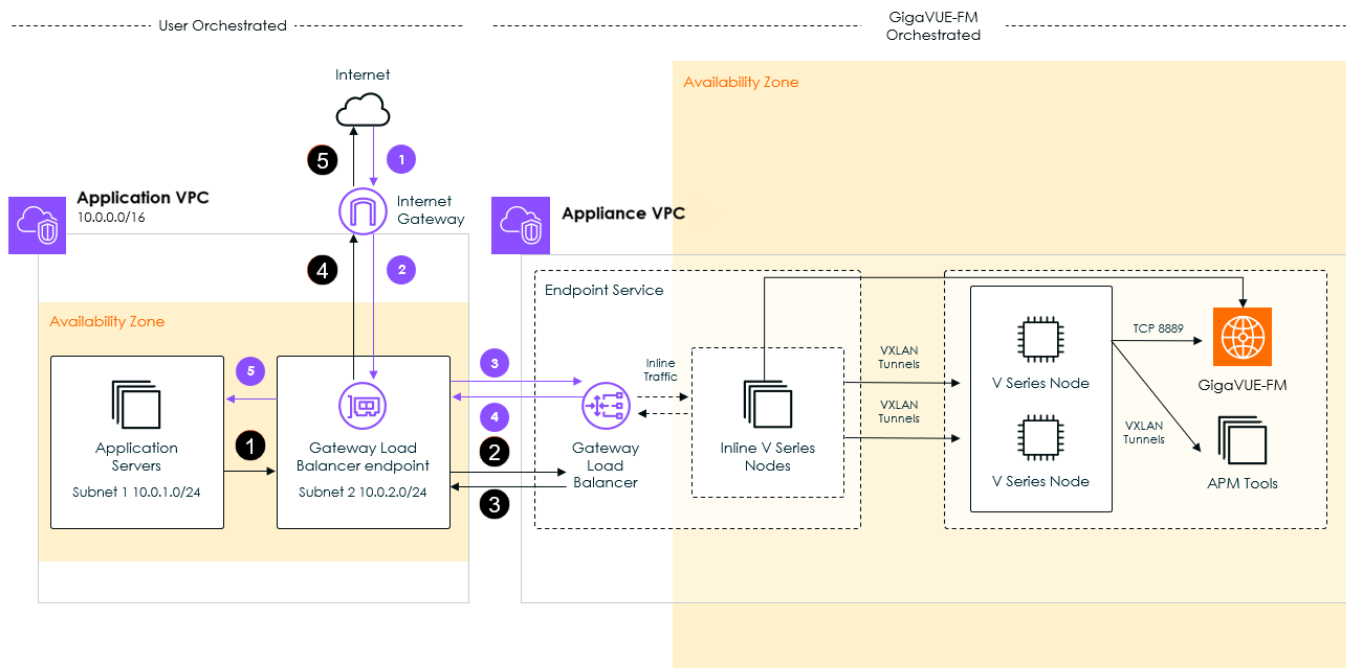
Architecture of Inline V Series Solution in AWS

Components required for configuring Inline V Series Solution in AWS:

- Application VPC
- Appliance VPC
- Internet Gateway
- Gateway Load Balancer endpoint
- Gateway Load balancer
- Inline V Series Node

Application VPC consists of multiple workload VMs, Gateway Load Balancer endpoint, Internet Gateway, availability zone, and Application Server with the availability zone. The appliance VPC consists of Gateway Load Balancer, Gateway Load Balancer service, Inline V Series Node (Target Listeners). Any traffic reaching the Gateway Load Balancer will be routed to the Target Listeners.

The below architecture diagram explains how the Inline V Series solution works:



Traffic from the internet to the application server (blue arrows):

1. The traffic from the internet is sent to the Application VPC using an Internet gateway.
2. This traffic is routed to the Gateway Load Balancer endpoint, as a result of ingress routing.

3. The Gateway Load Balancer endpoint sends the traffic to the Gateway Load Balancer in the Appliance VPC using a private link that is created between Gateway Load Balancer endpoint and the Gateway Load Balancer. The Gateway Load balancer forwards the traffic to the Inline V Series Nodes. The following actions are performed in the Inline V Series Node:
 - Once the traffic reaches the Inline V Series Nodes, a copy of the packet is taken as out of band traffic.
 - The Out of Band traffic is forwarded to the GigaVUE V Series Node for further processing or it can be forwarded to the tools.
 - The Inline V Series application swaps the IP address and the Mac of the packets, where the source and destination are interchanged. As a result the Inline V Series Node becomes the source and Gateway Load Balancer becomes the destination.
- NOTE:** Packets sent from the Gateway Load Balancer will be GENEVE encapsulated and forwarded to the Inline V Series Nodes.
4. The inline traffic is sent back to the Gateway Load Balancer endpoint in the application VPC.
 5. Based on the look up in the routing table configured in the Gateway Load Balancer endpoint, the traffic is sent to the application servers (destination subnet).

Prerequisites

- Create or update Security Group policies of GigaVUE Cloud Suite components. Refer [Security Group](#) topic for detailed information.
- Create or update routes in various VPCs across participating mirrored AWS accounts so that all mirrored account VPCs can connect to the target account VPC where the AWS Gateway Load Balancer is deployed.
- For more information on AWS recommended design for Gateway Load Balancer implementation with inline services, such as firewall. see [Getting started with Gateway Load Balancers - Elastic Load Balancing \(amazon.com\)](#)
- You must create a VPC endpoint and endpoint service. For more information, see [Create endpoint service](#).
- You must create a Gateway Load Balancer endpoint. For more information, see [Create a Gateway Load Balancer endpoint](#).
- Create a routing table. For more information, see [Amazon documentation](#).

Refer to the [Acquire Traffic using Inline V Series Solution](#) section for a detailed workflow on acquiring traffic through the Inline V Series.

Configure Custom Settings for AWS Secret and Top Secret Regions

This section explains how to configure GigaVUE Cloud Suite for AWS in Secret and Top Secret regions. These settings apply to users running AWS services in isolated environments where endpoints and regions are not publicly exposed.

GigaVUE-FM requires configuration options for CA certificates to connect to these isolated AWS environments.

NOTE: This feature has been tested and validated only in IPv4 only environments.

Import CA Certificate for Service Endpoints

Service endpoints in the secure regions may use TLS certificates signed by a Root CA that differs from the default trusted CAs in GigaVUE-FM. To establish secure HTTPS connections and validate server certificates, GigaVUE-FM must have the Root CA in its trust store. Importing the Root CA certificate ensures GigaVUE-FM can securely connect to the endpoints without certificate errors.

To Import Root CA into GigaVUE-FM Java Trust Store:

1. Obtain the required Root CA certificate file that signed the TLS certificate for your AWS Secret/Top Secret service endpoints.
2. Enter "**sudo keytool -keystore /usr/lib/jvm/java-17-openjdk-17.0.17.0.10-1.el8.x86_64/lib/security/cacerts -list**" in GigaVUE-FM. If prompted for a password, press Enter. The command lists the trusted Root CAs in the JDK trust store. Note the number of entries. The output includes a line such as: Your key store contains 146 entries. Here, the trust store contains 146 entries.
3. To import the Root CA into GigaVUE-FM, follow the steps listed below:
 - a. Copy the Root CA into GigaVUE-FM, for example, to `"/home/admin"` or `"/home/awsuser"`.

```
[admin@GigaVUE-FM-6800 ~]$ ll
total 580
-rw----- 1 awsuser awsuser 4201 Nov 13 03:58 ca-chain.crt
```

- b. Import the certificate into JDK trust store:

- I. Run: "sudo keytool -import -alias <RootCAalias> -keystore /usr/lib/jvm/java-17-openjdk-17.0.16.0.8-2.el8.x86_64/lib/security/cacerts -file <RootCA.crt file>".
- II. When prompted for a password, enter the default trust store password: **"changeit"**.
- III. The command displays certificate details (fingerprints, extensions) and prompts: Trust this certificate? [no]: Type **yes** and press Enter.
- IV. After successful import, it will display "Certificate was added to keystore".
- V. Repeat Step I to verify the Root CA is in the trust store. The entry count increases by one, and the Root CA appears in the list with the alias you specified, for example:

.....

Your keystore contains 147 entries

.....

userca, Nov 13, 2025, trustedCertEntry

Certificate fingerprint (SHA-256):

B0:0C:D7:F1:0B:A2:12:4D:BB:AB:70:90:61:4C:6C:5A:9A:69:D8:49:94:E2:2B:E5:CE:62:72:E1:8B:49:D1:62

.....

4. Restart the CMS process to apply the certificate import:

```
sudo systemctl restart tomcat@cms.service
```

NOTE: You must repeat the import steps when upgrading GigaVUE-FM.

Deploy GigaVUE Cloud Suite for AWS

This chapter describes how to connect, launch, and deploy fabric components of GigaVUE Cloud Suite for AWS in your AWS environment.

If you already have GigaVUE-FM running outside of your AWS environment, you can connect that existing GigaVUE-FM to your AWS using the Basic Credentials (Access Keys).

Refer to the following sections for details:

- [Create AWS Credentials](#)
- [Integrate Private CA](#)
- [Adding Certificate Authority](#)

- [Create a Monitoring Domain](#)
- [Configure GigaVUE Fabric Components](#)

Create AWS Credentials

You can monitor workloads across multiple AWS accounts within one Monitoring Domain.



- After launching GigaVUE-FM in AWS, if the IAM is attached to the running instance of FM, then the **EC2 Instance Role** authentication credential is automatically added to the **Credential** page as the default credential. You must attach the IAM prior to creating a Monitoring Domain.
- If you use the **Basic Credentials** authentication credentials, you must add these to the GigaVUE-FM on the **AWS Settings** page, or on the Monitoring Domain creation page.

For details, refer to [Create a Monitoring Domain](#).

Prerequisites:

Configure the required permission and privileges in AWS. Refer to the following topics for more detailed information on how to configure the required permission and privileges in AWS based on your deployment option:

Deployment Option	Reference Topics
Acquire Traffic using Traffic Mirroring	Example: Traffic Acquisition using Traffic Mirroring
Acquire Traffic using Traffic Mirroring when configuring Gateway Load Balancer in AWS	Example: Traffic Acquisition using Traffic Mirroring and GwLB
Acquire Traffic using Traffic Mirroring when configuring Network Load Balancer in AWS	Minimum Permissions Required for Acquiring Traffic using Traffic Mirroring with Network Load Balancer
Acquire Traffic using Inline V Series in AWS	Minimum Permissions Required for Acquiring Traffic using Inline V Series

To create AWS credentials:

1. Go to **Inventory > VIRTUAL > AWS**, and select **Settings > Credentials**
2. On the **Credential** page, select **Add**. The **Credential Configure** page appears.

Configure Credential Save Cancel

Name*	Credential Name
Authentication Type	Basic Credentials
Access Key*	Access Key
Secret Access Key*	Secret Access Key

3. Enter a name to identify the AWS Credential in the **Name** Field.
4. Basic Credentials is selected as the default **Authentication Type**. For more information, refer to [AWS Security Credentials](#).
5. Enter the credential of an IAM user or the AWS account root user in the **Access Key** field.
6. Enter the security password or key in the **Secret Access Key** field.
7. Select **Save**. You can view the list of available credentials on the AWS Credential page.

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

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 connects to the AWS Platform through the public API endpoint and uses HTTPS, the default protocol to communicate with API. For more information about the endpoint and the protocol used, refer to [AWS service endpoints](#).

GigaVUE-FM provides you the flexibility to monitor multiple VPCs. You can choose the VPC ID and launch the GigaVUE fabric components in the desired VPCs.

NOTE: To configure the Monitoring Domain and launch the fabric components in AWS, you must have the **fm_super_admin** role or the write access to the **Infrastructure Management** category. For details, refer to [Role Based Access Control](#).

To create a Monitoring Domain:

1. Go to **Inventory > VIRTUAL > AWS**, and select **Monitoring Domain**.
2. On the **Monitoring Domain** page, select **New**. The **Monitoring Domain Configuration** page appears.

3. Select **Check Permissions** and validate whether you have the required permissions.
4. In the **Monitoring Domain** field, enter an alias used to identify the Monitoring Domain.
5. From the **Traffic Acquisition Method** drop-down list, select one of the following tapping methods:
 - **Inline:** If you select this option, you can directly capture the inline traffic from the instances.
6. In the **Traffic Acquisition Tunnel MTU**, enter the MTU value. The Maximum Transmission Unit (MTU) is the maximum size of each packet that the tunnel endpoint can carry from the UCT-V to the GigaVUE V Series Node. The default value is 8951.
 - When using IPv4 tunnels, the maximum MTU value is 8951.
 - When using IPv6 tunnels, the maximum MTU value is 8931.
7. Turn on the **Use FM to Launch Fabric** toggle, to deploy GigaVUE Fabric Components using GigaVUE-FM.
 - Select **Yes:** [Configure GigaVUE Fabric Components in GigaVUE-FM](#)
 - Select **No:** [Configure GigaVUE Fabric Components in AWS using Third Party Orchestration - Integrated Mode](#).
8. Under Connections, in the **Name** field, enter an alias used to identify the connection.
9. From the **Credential** drop-down list, select an AWS credential. For details, refer to [Create AWS Credentials](#).
10. From the **Region** drop-down list, select **US ISOB East (Ohio)** for the Monitoring Domain.
11. From the **Accounts** drop-down list, select the AWS accounts.
12. From the **VPCs** drop-down list, select the VPCs to monitor.
13. Click **Save**.

**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.

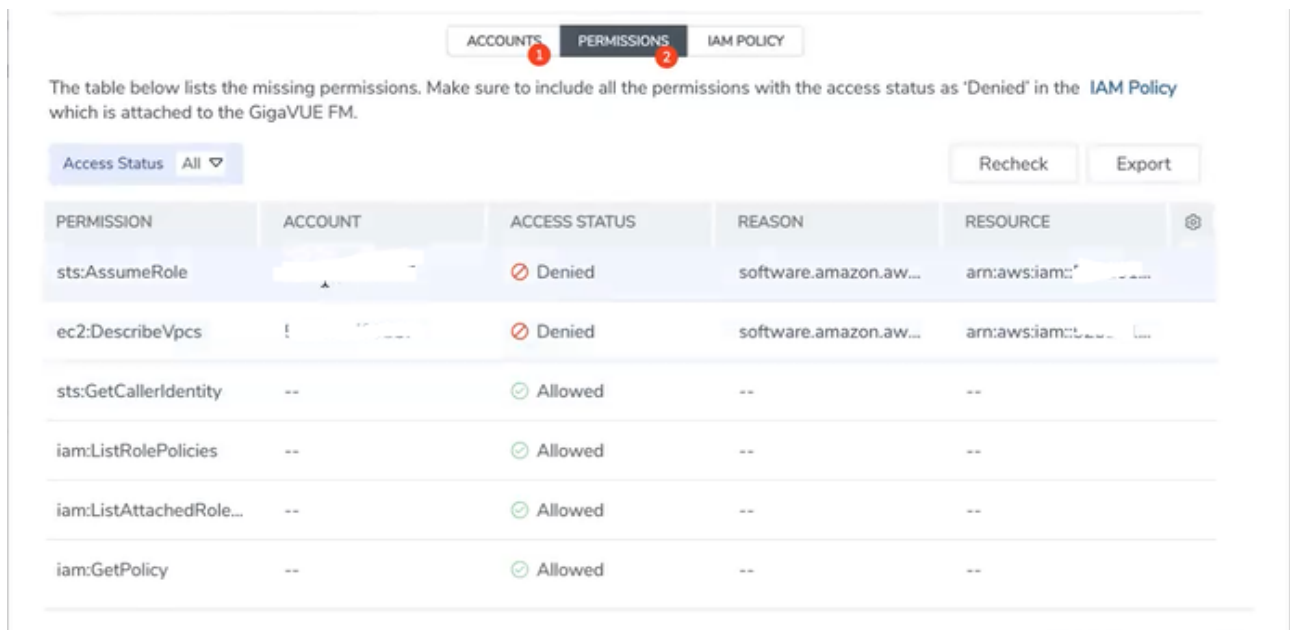
You can view the new Monitoring Domain in the **Monitoring Domain** page list view.

To edit a Monitoring Domain, select the deployed Monitoring Domain and select **Actions**. From the drop-down list, select **Edit** and the **Monitoring Domain Configuration** page appears.

Check Permissions while Creating a Monitoring Domain

To check the permissions while creating a Monitoring domain, follow these steps:

1. Go to **Inventory > VIRTUAL > AWS**, and then click **Monitoring Domain**. The **Monitoring Domain** page appears.
2. Select **New**. The **Monitoring Domain Configuration** page appears.
3. Enter the details as mentioned in the [Create a Monitoring Domain](#) section.
4. Select the **Check Permission** button. The **Check Permissions** widget opens.
5. Select the connection for which you wish to check the required permissions and then select **Next**.
6. Select the **Permission Status** to view the missing permissions. The **ACCOUNTS** tab lists the accounts and the permissions status.
7. Review the accounts that has an error in the permission status. The **PERMISSIONS** tab lists the permissions required to run GigaVUE Cloud Suite for AWS.
8. Make sure to include all the permissions with Access Status as **Denied** in the IAM policy.



The table below lists the missing permissions. Make sure to include all the permissions with the access status as 'Denied' in the IAM Policy which is attached to the GigaVUE FM.

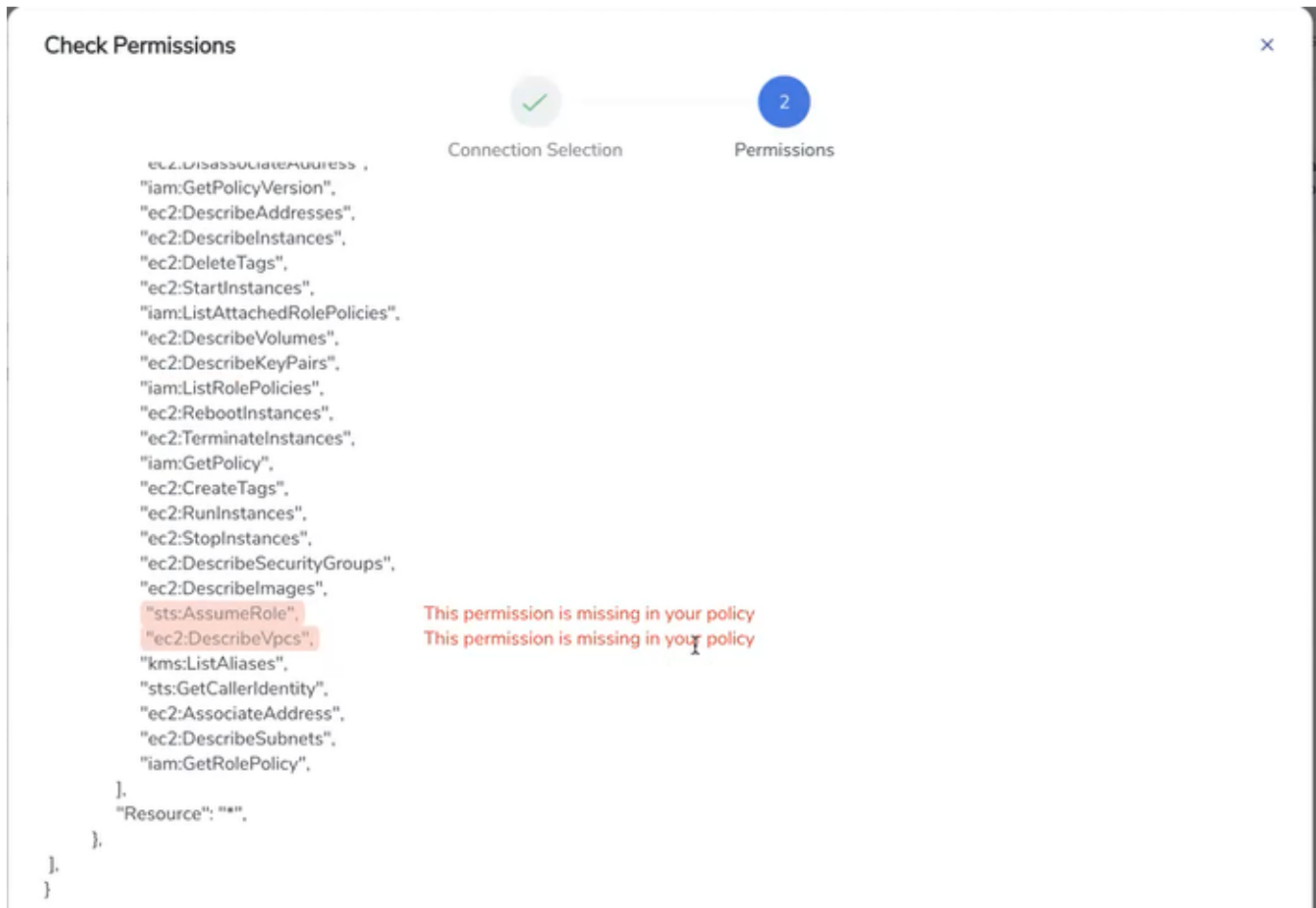
Access Status: All ▼

Recheck Export

PERMISSION	ACCOUNT	ACCESS STATUS	REASON	RESOURCE
sts:AssumeRole	!	❌ Denied	software.amazon.aw...	arn:aws:iam:*
ec2:DescribeVpcs	!	❌ Denied	software.amazon.aw...	arn:aws:iam:*
sts:GetCallerIdentity	--	✅ Allowed	--	--
iam:ListRolePolicies	--	✅ Allowed	--	--
iam:ListAttachedRole...	--	✅ Allowed	--	--
iam:GetPolicy	--	✅ Allowed	--	--

The **IAM POLICY** tab lists the sample policy containing the required permissions for deploying the GigaVUE Cloud Suite for AWS. You must update the AWS IAM policy with the missing permissions that are highlighted in the JSON.

9. Go to the **PERMISSIONS** tab and select **Recheck** to recheck the IAM policy.



When you click Copy or Download, the entire JSON will be copied or downloaded.

NOTE: After updating the IAM Policy, it takes around 5 minutes for the changes to reflect on the Check Permissions screen.

You can view the permission status reports in the **Monitoring Domain** page. Permission status reports consist of previously run **Check permissions** reports. They are auto purged once every 30 days. You can change the purge interval from the **Advanced Settings** page. Refer to [Configure AWS Settings](#) for more detailed information.

To view permission status report, in the **Monitoring Domain** page, click **Actions > View Permission Status Report**. To view or delete individual reports, select the report and click **Actions** button.

What to do Next:

Based on your chosen deployment option, perform any of the following actions:

- **Use FM to Launch Fabric** is enabled: You reach the **AWS Fabric Launch Configuration** page. For details on how to deploy GigaVUE Fabric Components using GigaVUE-FM, refer to [Configure GigaVUE Fabric Components in GigaVUE-FM](#).
- **Use FM to Launch Fabric** is disabled: You must deploy GigaVUE Fabric Components using AWS. For details on how to deploy GigaVUE Fabric Components using AWS, refer to [Configure GigaVUE Fabric Components in AWS using Third Party Orchestration - Integrated Mode](#).

Configure GigaVUE Fabric Components

You can use your own orchestration system to deploy the GigaVUE fabric components instead of using GigaVUE-FM to deploy the fabric components.

The GigaVUE fabric components register themselves with GigaVUE-FM using the information provided by you. Once the nodes are registered with GigaVUE-FM, you can configure monitoring sessions and related services in GigaVUE-FM. After launching the fabric component images in your orchestration system use the registration data provided in the sections below to deploy your fabric components to GigaVUE-FM. Health status of the registered nodes is determined by the heartbeat messages sent from the respective nodes.

This section provides step-by-step information on how to register GigaVUE fabric components using your own orchestration system or a configuration file.

Configure GigaVUE V Series Node and GigaVUE V Series Proxy

NOTE: It is not mandatory to register GigaVUE V Series Nodes via V Series proxy however, if there are a large number of nodes connected to GigaVUE-FM or if you do not wish to reveal the IP addresses of the nodes, then you can register your nodes using GigaVUE V Series Proxy. In this case, GigaVUE-FM communicates with GigaVUE V Series Proxy to manage the GigaVUE V Series Nodes.

To register GigaVUE V Series Proxy or node after launching the instance using a configuration file, follow the steps given below:

1. Log in to the GigaVUE V Series Proxy or Node.
2. Create a local configuration file (**/etc/gigamon-cloud.conf**) and enter the following custom data.

Registration:

```
groupName: <Monitoring Domain Name>
subGroupName: <VPC ID>
token: <Token>
remoteIP: <IP address of the GigaVUE-FM> or
          <IP address of the Proxy>
remotePort: 443
```



- You can register your GigaVUE V Series Node directly with GigaVUE-FM or you can use V Series proxy to register your GigaVUE V Series node with GigaVUE-FM. If you wish to register GigaVUE V Series Node directly, enter the **remotePort** value as 443 and the **remoteIP** as *<IP address of the GigaVUE-FM>* or if you wish to deploy GigaVUE V Series node using GigaVUE V Series proxy then, enter the **remotePort** value as 8891 and **remoteIP** as *<IP address of the Proxy>*.
- Use only the default **user** and **password** details given in the custom data.

3. Restart the GigaVUE V Series proxy or node service.

- GigaVUE V Series node:
\$ **sudo service vseries-node restart**
- GigaVUE V Series proxy:
\$ **sudo service vps restart**

The deployed GigaVUE V Series proxy or node registers with the GigaVUE-FM.

After successful registration, the fabric components send heartbeat messages to GigaVUE-FM every 30 seconds. If one heartbeat is missing, the visibility node status appears as 'Unhealthy'. If more than five heartbeats fail to reach GigaVUE-FM, GigaVUE-FM tries to reach the fabric components and if that fails GigaVUE-FM unregisters the fabric component and it will be removed from GigaVUE-FM.

Acquire Traffic using Inline V Series Solution

This section outlines the workflow for acquiring traffic using Inline V Series and deploying GigaVUE Fabric Components using Third Party Orchestration. It provides instructions on configuring traffic acquisition, processing, and forwarding to your desired destination.

Step No	Task	Refer the following topics
1	Install GigaVUE-FM on AWS.	Install GigaVUE-FM on AWS
2	Configure the permissions required in AWS.	Minimum Permissions Required for Acquiring Traffic using Inline V Series
3	Create Tokens for deploying fabric components using Third Party Orchestration.	Configure Tokens
3	Create the AWS Credentials.	Create AWS Credentials
4	Configure Gateway Load Balancer for Inline V Series Node and Out-of-Band V Series Nodes.	Configure a Gateway Load Balancer in AWS for Inline V Series Solution
5	Create a Monitoring Domain and register the fabric components in GigaVUE-FM. Note: <ul style="list-style-type: none"> • Ensure that the Use Load Balancer toggle button is enabled. • Select Inline as the Traffic Acquisition Method. 	Deploy GigaVUE V Series Nodes for Inline V Series Solution
6	Create and configure Monitoring session.	Configure Monitoring Session

Step No	Task	Refer the following topics
7	Create routing table in AWS.	<ul style="list-style-type: none">• Configure routing• Architecture patterns for inline inspection
8	View Monitoring Session Statistics.	View Monitoring Session Statistics (AWS)
9	View Dashboards for Inline V Series Solution.	Analytics for Inline V Series Solution (AWS)

Configure Monitoring Session

This chapter describes how to set up ingress and egress tunnel, maps, applications in a monitoring session to receive and send traffic to the GigaVUE Cloud Suite V Series node. The chapter also describes how to filter, manipulate, and send the traffic from the V Series node to monitoring tools.

Refer to the following sections for details:

- [Create a Monitoring Session \(AWS\)](#)
- [Configure Monitoring Session for Inline V Series](#)
- [Create Ingress and Egress Tunnels \(AWS\)](#)
- [Create Raw Endpoint \(AWS\)](#)
- [Create a New Map \(AWS\)](#)
- [Add Applications to Monitoring Session \(AWS\)](#)
- [Interface Mapping \(AWS\)](#)
- [Deploy Monitoring Session \(AWS\)](#)
- [View Monitoring Session Statistics \(AWS\)](#)
- [Visualize the Network Topology \(AWS\)](#)

Create a Monitoring Session (AWS)

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 (AWS)

You can view the following tabs on the Monitoring Session page:



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 (AWS)
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> <p>NOTE: In the case of OVS Mirroring, the Sources tab also displays the Hypervisor details along with the Instances.</p> </div>
Traffic Acquisition	You can enable or disable Prefiltering, Precryption, and Secure Tunnel here. You can also

Tab	Description
	<p>create a prefiltering template and apply it to the Monitoring Session. Refer to Configure Monitoring Session Options (AWS) for more detailed information.</p> <p>NOTE: Traffic Acquisition is only applicable for Monitoring Domain created with UCT-V as Acquisition method.</p>
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 (AWS) 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 (Configuration Health, Traffic Health, Operational Health) , 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 (AWS) 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 (AWS) .

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

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

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 pane of the Monitoring Session page to view the Monitoring Sessions list. Select  to filter the Monitoring Sessions list. In the left pane, you can:

- Create a new Monitoring Session
- Rename a Monitoring Session

- Hover over, select the check box of the required Monitoring Session(s) and perform bulk actions (Delete, Deploy, or Undeploy).

Configure Monitoring Session Options (AWS)

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.

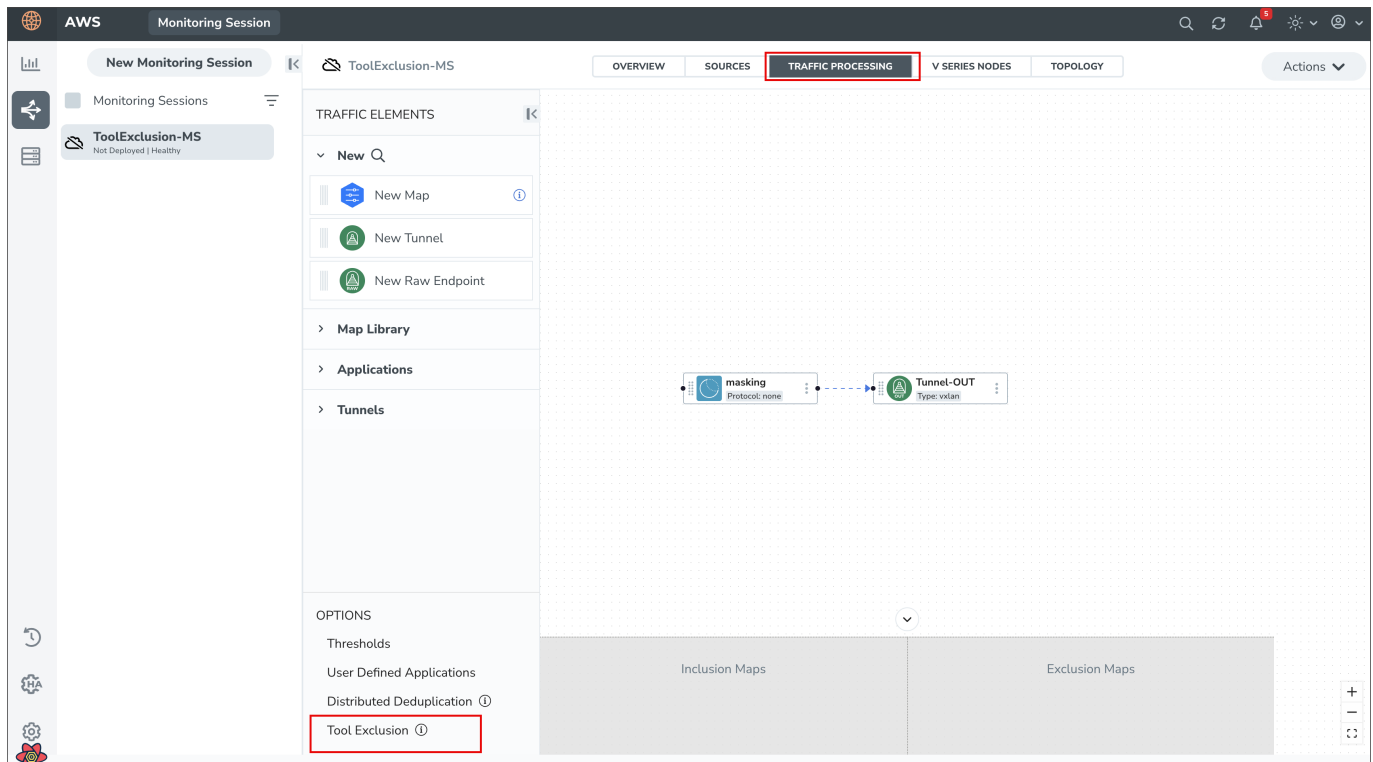
You can exclude tool instances using either of the following methods:

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.



Configure Monitoring Session for Inline V Series

When the **Traffic Acquisition Method** is **Inline**, the **UCT-I** application is available on the canvas by default. You can configure up to three tiers in a Monitoring Session and define multiple Sub Policies. Each Sub Policy can have its own ingress and egress tunnels and traffic processing applications.



Notes:

- You can configure a maximum of three tiers in a Monitoring Session.
- Tier 1 supports only Maps. Inline traffic is disabled and reserved for future use.
- You can configure a maximum of 8 Sub Policies in a Monitoring Session.
- Each Sub Policy can have its own Ingress Tunnels, Egress Tunnels, and Applications.
- Traffic from an out-of-band endpoint can either:
 - Pass through a Map and send to a tool using an Egress Tunnel.
 - (Optional) Send to the GigaVUE V Series Node of the next tier for further processing.

To configure the Monitoring Session for Inline V Series Solution:

Tier 1 Monitoring Session:

1. Perform one of the following options:

- Create a new Monitoring Session
- On an existing Monitoring Session, navigate to the **TRAFFIC PROCESSING** tab.

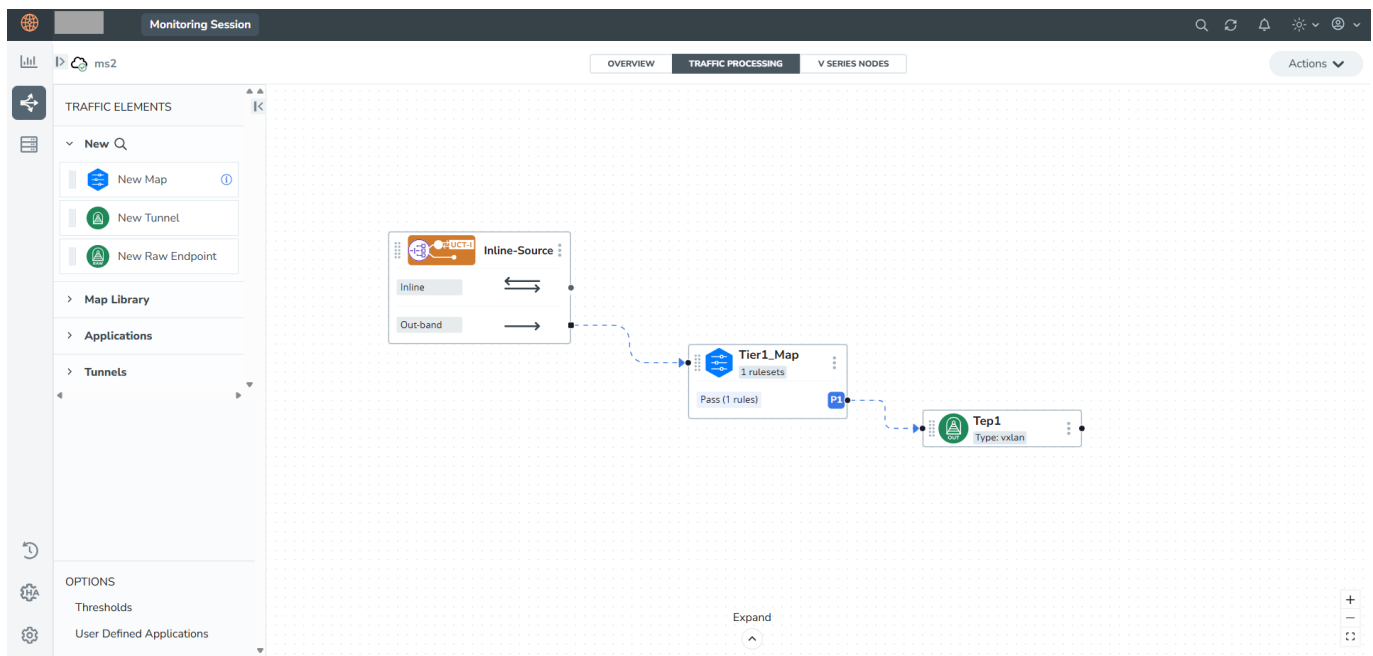
The GigaVUE-FM Monitoring Session canvas page appears.

When the **Traffic Acquisition Method** is **Inline**, the **UCT-I** application is available on the canvas by default.

2. Drag and drop the following items to the canvas as required for Tier 1 or Sub Policy 1:

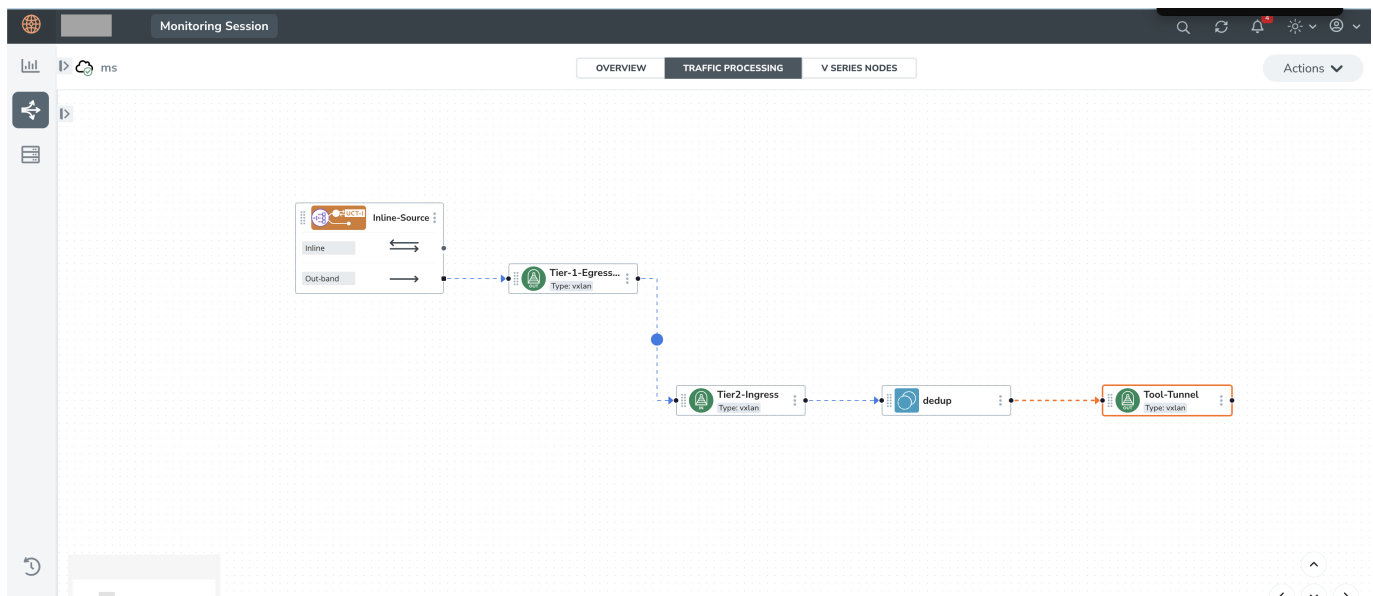
- (Optional) Maps from the **new map** section.
- Egress tunnels from the **new tunnel** section. When configuring Egress Tunnel, configure the **Remote Tunnel IP** if you intend to send the traffic directly from Tier 1 to the tool.

NOTE: If sending traffic to Tier 2, Remote IP is optional. GigaVUE-FM will automatically add the remote IPs internally.



Tier 2 Monitoring Session (Optional):

1. In the same Monitoring Session canvas, drag and drop the following items to the canvas as required for Tier 2 or Sub Policy 2:
 - Ingress tunnel (as a source) from the **New** section.
 - Maps from the **New Map** section.
 - GigaSMART apps from the Applications section.
 - Egress tunnels from the **new tunnel** section. Enter the **Remote Tunnel IP** address.
2. Create a link from the Ingress Tunnel to the Map or Application, and then connect it to the Egress Tunnel.
3. Create a direct link between the Egress Tunnel of Tier 1 and the Ingress Tunnel of Tier 2. The Blue Dot serves as an identifier to differentiate between tiers.
4. Repeat Step 1 to configure a third tier, if required.



Deploy Monitoring Session

1. From the Actions drop-down list, select **Deploy**.

The Deploy Monitoring Session pop-up appears.

2. For each Policy (Tier) configured in the Monitoring Session, enter the following details:
 - In the **Policy Name** field, verify the auto-generated policy name or enter a custom name.
 - From the **Node Group** drop-down list, select the appropriate node group associated with this policy.
 - Under **Interface Mapping**, configure the interfaces:
 - i. From the **Ingress - <Tunnel>** drop-down list, select the input interface.
 - ii. From the **Egress - <Tunnel>** drop-down list, select the output interface.
3. Select **Deploy** the Monitoring Session.

To view the GigaVUE V Series Node associated with each Sub Policy, navigate to the **V SERIES NODES** tab and select a policy from the **Select a Sub policy** drop-down menu.

What to do Next:

NOTE: To ensure traffic is routed to the GigaVUE V Series Node, you must create routing tables in AWS.

After deploying the Monitoring Session in GigaVUE-FM, you must create routing tables in AWS with the configurations specified in the [Architecture patterns for inline inspection](#) section in AWS Documentation. For more details on how to configure routing table refer to [Configure routing](#).

Create Ingress and Egress Tunnels (AWS)

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



Notes:


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

Create a new tunnel endpoint

To create,

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

The GigaVUE-FM Monitoring Session canvas page appears.

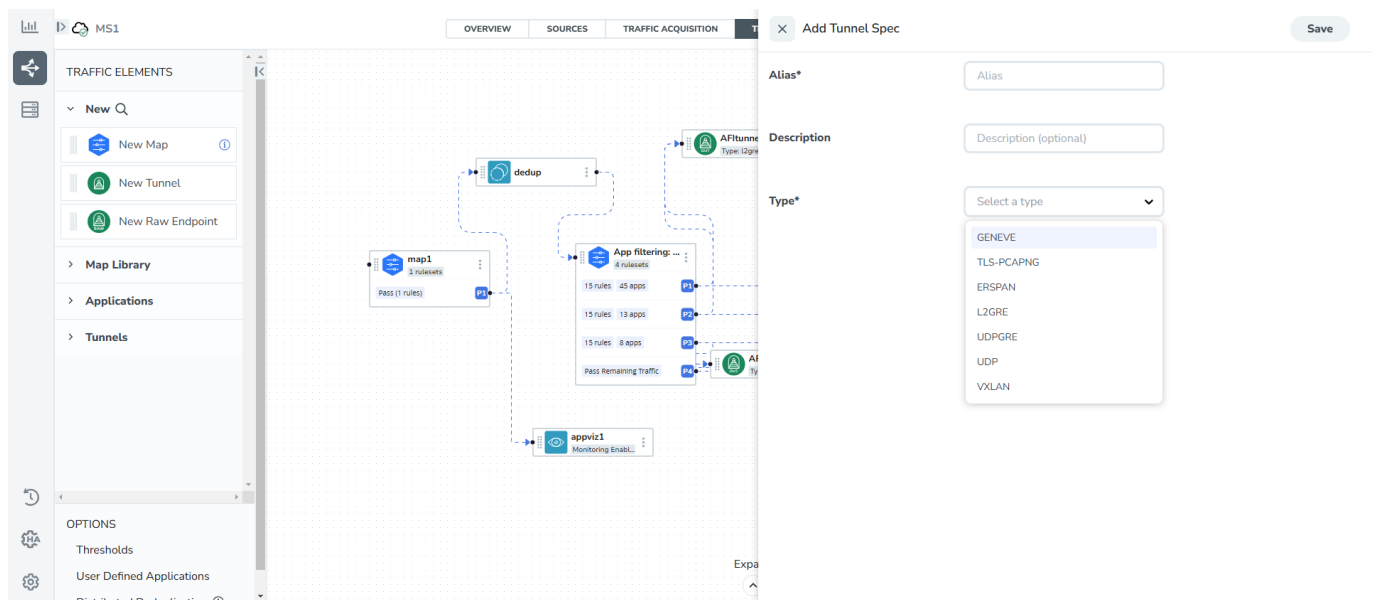
2. On the left pane of the canvas, select the  icon to view the traffic processing elements.
3. Select **New > New Tunnel**, drag and drop a new tunnel template to the workspace.

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

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


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

5. Select **Save**.



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

Apply a threshold template to Tunnel End Points

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


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


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

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

Table 1: Details - Add Tunnel Specifications

Field	Description
Alias	The name of the tunnel endpoint.
Description	The description of the tunnel endpoint.
Admin State Note: This option appears only after the Monitoring session deployment.	<p>Use this option to send or stop the traffic from GigaVUE-FM to the egress tunnel endpoint. Admin State is enabled by default.</p> <p>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.</p> <p>Note: This option is not supported for TLS-PCAPNG tunnels.</p>
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.

Field	Description	
	IP Version	The version of the Internet Protocol. Select IPv4 or IPv6.
	Remote Tunnel IP	For ingress tunnel, the Remote Tunnel IP is the IP address of the tunnel source.
	VXLAN Network Identifier	Unique value that is used to identify the VXLAN. The value ranges from 1 to 16777215.
	Source L4 Port	The port used to establish the connection to the target. For example, if A is the source and B is the destination, this port value belongs to A.
	Destination L4 Port	The port used to establish the connection will be established from the source. For example, if A is the source and B is the destination, this port value belongs to B.
Out	Choose Out (Encapsulation) for creating an egress tunnel from the GigaVUE V Series Node to the destination endpoint.	
	Remote Tunnel IP	For egress tunnel, the Remote Tunnel IP is the IP address of the tunnel destination endpoint.
	MTU	The Maximum Transmission Unit (MTU) is the maximum size of 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>  Notes: <ul style="list-style-type: none"> You can configure either a single-tep or multi-tep setup for the egress tunnel. </div>

Field	Description	
		 <p>Switching between these configurations is not allowed; to make changes, you must undeploy and redeploy the Monitoring Session.</p> <ul style="list-style-type: none"> When you enable Multi-Tunnel on a VXLAN tunnel and set the number of tunnels, GigaVUE-FM automatically creates the additional VXLAN tunnel endpoints. Any later changes to the original VXLAN tunnel, such as disabling Multi-Tunnel or modifying Domain Tagging do not update these auto created endpoints. They continue to retain the configuration that existed at the time they were created. <p>To apply updated settings, you must delete the VXLAN TEP and the associated LB application, then recreate the LB and VXLAN TEP with the new configuration, and re-establish the link between them.</p>
	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	<p>Enable this option to tag packets on the egress tunnel with the Ericsson domain-specific VLAN IDs derived from the PCAPng Domain VLAN Mapping.</p> <p>NOTE: This setting is available only when Domain Classification is enabled in the associated PCAPng application. Refer to PCAPng Application for details.</p>
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

Field	Description	
		tunnel source.
	Key	Identifier used to differentiate different UPDGRE/L2GRE tunnels. It routes the encapsulated frames to the appropriate tunnel on the remote endpoint. Enter a value between 0 and 4294967295.
	Source L4 Port	The port from which the connection is established to the target. For example, if A is the source and B is the destination, this port value belongs to A.
	Destination L4 Port	The port to which the connection is established from the source. For example, if A is the source and B is the destination, this port value belongs to B.
L2GRE		
Traffic Direction The direction of the traffic flowing through the GigaVUE V Series Node. Note: In the scenario where secure tunnels need to be established between a GigaVUE V Series and a GigaVUE HC Series, you can utilize the Configure Physical Tunnel option provided in the GigaVUE V Series Secure Tunnel page. This allows you to conveniently configure secure tunnels on your physical device . For details, refer to the Secure Tunnels .		
In	Choose In (decapsulation) to create an ingress tunnel, which will carry traffic from the source to the GigaVUE V Series Node.	
	IP Version	The version of the Internet Protocol. Select IPv4 or IPv6.
	Remote Tunnel IP	For ingress tunnel, the Remote Tunnel IP is the IP address of the tunnel source.
	Key	Identifier used to differentiate different UPDGRE/L2GRE tunnels. It is used to route the encapsulated frames to the appropriate tunnel on the remote endpoint. Enter a value between 0 and 4294967295.
Out	Choose Out (Encapsulation) for creating an egress tunnel from the V Series Node to the destination endpoint.	
	Remote Tunnel IP	For egress tunnel, the Remote Tunnel IP is the IP address of the tunnel destination endpoint.
	MTU	The Maximum Transmission Unit (MTU) is the maximum size of each packet that the tunnel endpoint can carry. The default value is 1500.
	Time to Live	Enter the value of the time interval for which the session needs to be available. The value ranges from 1 to 255. The default value is 64.
	DSCP	Differentiated Services Code Point (DSCP) is a value that network devices use to identify traffic to be handled with higher or lower priority. The values ranges from 0 to 63 with 0 being the highest

Field	Description	
		priority and 63 being the lowest priority.
	Flow Label	Unique value, which is used to identify packets that belong to the same flow. A flow is a sequence of packets that need to be treated as a single entity that may require special handling. The accepted value is between 0 and 1048575.
	Key	Identifier used to differentiate different UPDGRE/L2GRE tunnels. It is used to route the encapsulated frames to the appropriate tunnel on the remote endpoint. Enter a value between 0 and 4294967295.
	Domain Tagging	Enable this option to tag packets on the egress tunnel with the Ericsson domain-specific VLAN IDs derived from the PCAPng Domain VLAN Mapping. <div> NOTE: This setting is available only when Domain Classification is enabled in the associated PCAPng application. Refer to PCAPng Application for details. </div>
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. 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.		

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 Raw Endpoint (AWS)

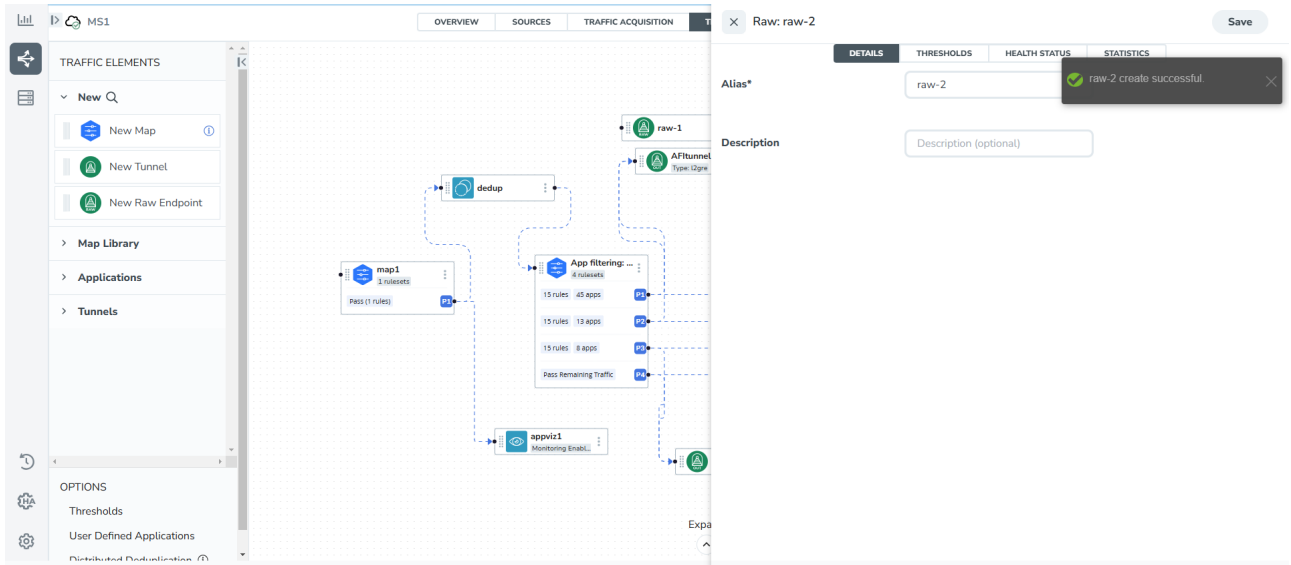
Raw End Point (REP) is used to pass traffic from an interface. REP is used to ingress data from a physical interface attached to GigaVUE V Series Nodes. You can optionally use this end point to send traffic to the applications deployed in the Monitoring Session.

NOTE: The maximum number of links that can egress from any endpoint in V Series is four.

To add Raw Endpoint to the Monitoring Session:

1. Drag and drop **New Raw Endpoint** from the **New** expand menu to the graphical workspace.
2. On the new raw endpoint icon, click the  menu button and select **Details**. The **Raw** quick view page appears.

3. Enter the Alias and Description details for the Raw End Point and click **Save**.



4. To deploy the Monitoring Session after adding the Raw End Point:
- Select **Deploy** from the **Actions** drop-down list on the **TRAFFIC PROCESSING** page. The **Deploy Monitoring Session** dialog box appears.
 - Select the V Series Nodes for which you wish to deploy the Monitoring Session.
 - Select the interfaces for each of the REPs and the TEPs deployed in the Monitoring Session from the drop-down menu for the selected individual V Series Nodes.
 - Select **Deploy**.
5. Select **Export** to download all or selected V Series Nodes in CSV and XLSX formats.

Create a New Map (AWS)

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 <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"> • 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.

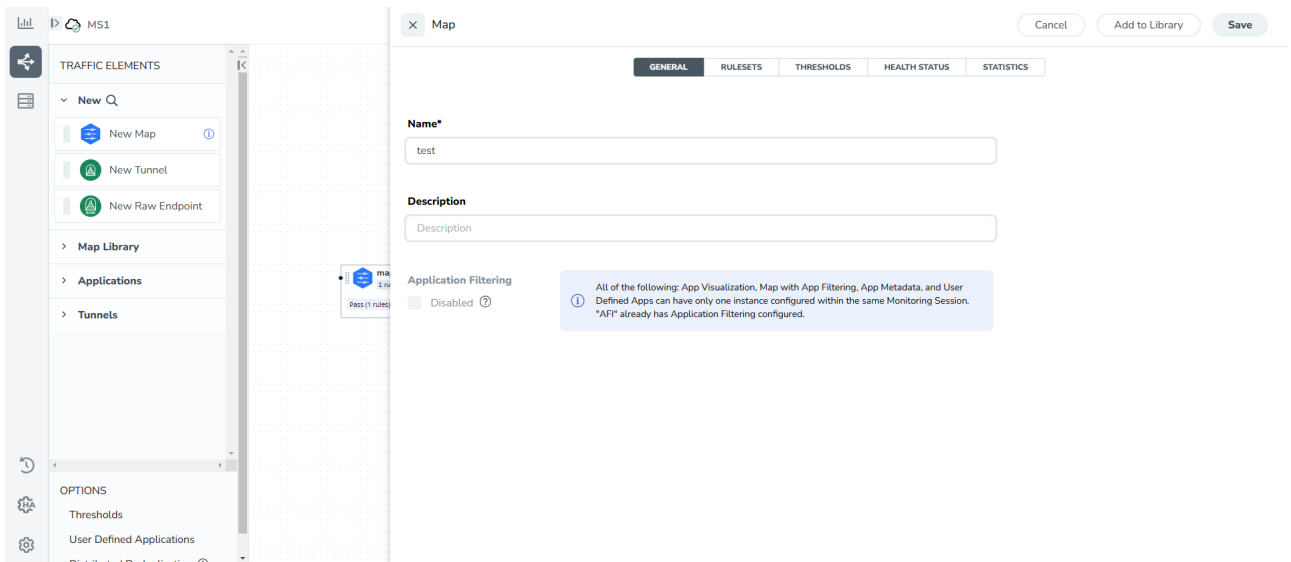
Rules and Notes:

- 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 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 (AWS)

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 details on how to configure these application, refer to *GigaVUE V Series Applications Guide*.

Interface Mapping (AWS)

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 (AWS)

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
10.10.10.100	Excluded
10.10.10.200	--
10.10.10.300	Excluded

VM NAME	ID
VM100	i-0cae6ab7c57a9d237
<input checked="" type="checkbox"/> Tool	i-0cae6ab7c57a9d328
VM200	i-0cae6ab7c57a9f395

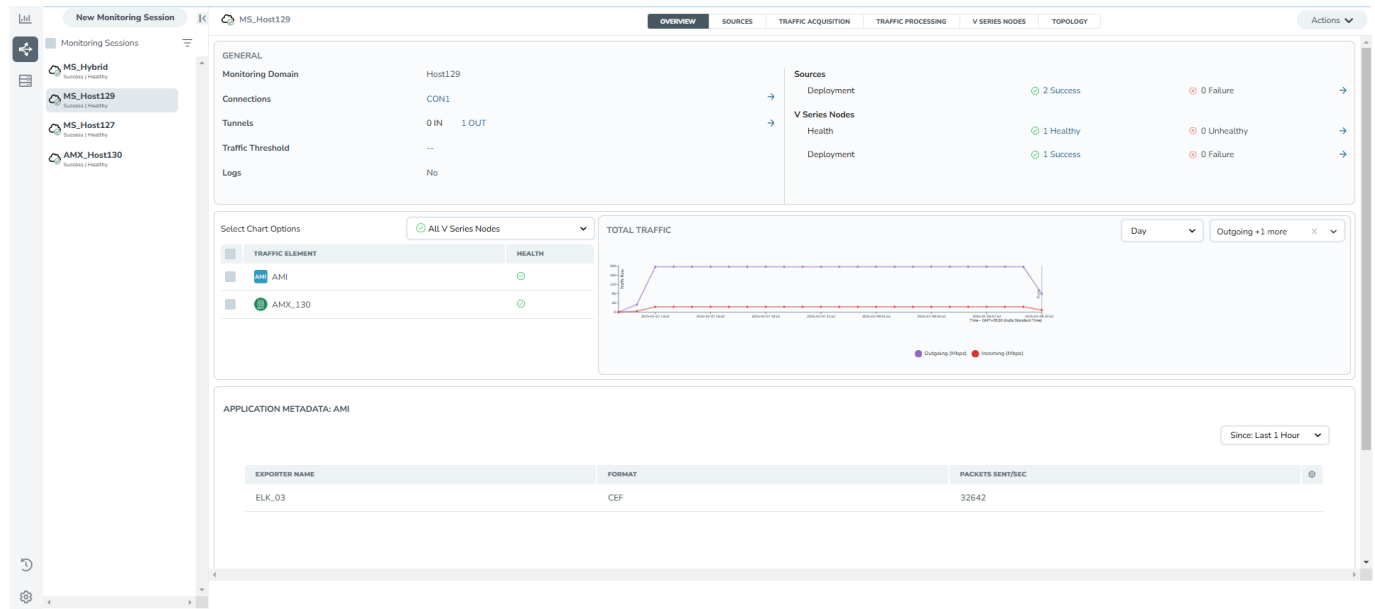
Cancel Deploy

- 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 (AWS)

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 (AWS)

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.

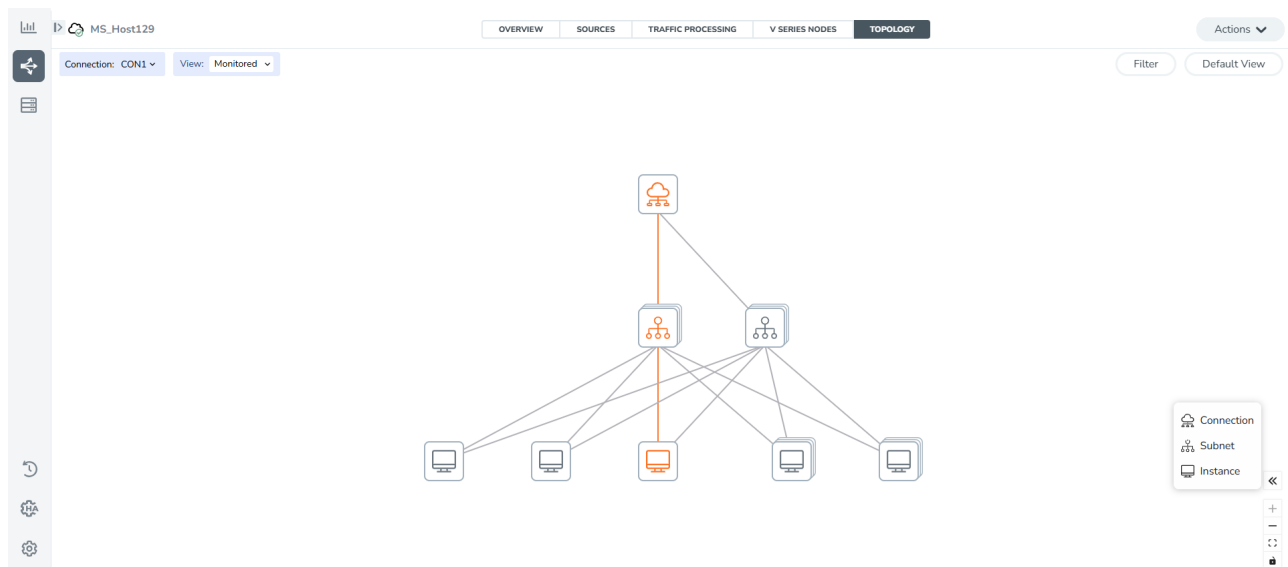
To view the topology in GigaVUE-FM:

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.

AdditionalInfoAppx

Additional Sources of Information

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

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

Documentation

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

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

Table 1: Documentation Set for Gigamon Products

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

GigaVUE Cloud Suite 6.13 Hardware and Software Guides	
GigaVUE-TA200 Hardware Installation Guide	
GigaVUE-TA200E Hardware Installation Guide	
GigaVUE-TA400 Hardware Installation Guide	
GigaVUE-TA400E Hardware Installation Guide	
GigaVUE-OS Installation Guide for DELL S4112F-ON	
G-TAP A Series 2 Installation Guide	
GigaVUE M Series Hardware Installation Guide	
GigaVUE-FM Hardware Appliances Guide	
Software Installation and Upgrade Guides	
GigaVUE-FM Installation, Migration, and Upgrade Guide	
GigaVUE-OS Upgrade Guide	
GigaVUE V Series Migration Guide	
Fabric Management and Administration Guides	
GigaVUE Administration Guide	covers both GigaVUE-OS and GigaVUE-FM
GigaVUE Fabric Management Guide	how to install, deploy, and operate GigaVUE-FM; how to configure GigaSMART operations; covers both GigaVUE-FM and GigaVUE-OS features
GigaVUE Application Intelligence Solutions Guide	
GigaVUE Inline Solutions Guide(NEW) (previously included in the GigaVUE Fabric Management Guide)	
Cloud Guides	
how to configure the GigaVUE Cloud Suite components and set up traffic monitoring sessions for the cloud platforms	
GigaVUE V Series Applications Guide	
GigaVUE Cloud Suite Deployment Guide - AWS	
GigaVUE Cloud Suite Deployment Guide - Azure	
GigaVUE Cloud Suite Deployment Guide - OpenStack	
GigaVUE Cloud Suite Deployment Guide - Nutanix	
GigaVUE Cloud Suite Deployment Guide - VMware (ESXi)	
GigaVUE Cloud Suite Deployment Guide - VMware (NSX-T)	

GigaVUE Cloud Suite 6.13 Hardware and Software Guides	
GigaVUE Cloud Suite Deployment Guide - Third Party Orchestration	
Universal Cloud TAP - Container Deployment Guide	
Gigamon Containerized Broker Deployment Guide	
GigaVUE Cloud Suite Deployment Guide - AWS Secret Regions	
GigaVUE Cloud Suite Deployment Guide - Azure Secret Regions	
Reference Guides	
GigaVUE-OS CLI Reference Guide	library of GigaVUE-OS CLI (Command Line Interface) commands used to configure and operate GigaVUE HC Series and GigaVUE TA Series devices
GigaVUE-OS Security Hardening Guide	
GigaVUE Firewall and Security Guide	
GigaVUE Licensing Guide	
GigaVUE-OS Cabling Quick Reference Guide	guidelines for the different types of cables used to connect Gigamon devices
GigaVUE-OS Compatibility and Interoperability Matrix	compatibility information and interoperability requirements for Gigamon devices
GigaVUE-FM REST API Reference in GigaVUE-FM User's Guide	samples uses of the GigaVUE-FM Application Program Interfaces (APIs)
Factory Reset Guidelines for GigaVUE-FM and GigaVUE-OS Devices	
Sanitization guidelines for GigaVUE Fabric Management Guide and GigaVUE-OS devices.	
Release Notes	
GigaVUE-OS, GigaVUE-FM, GigaVUE-VM, G-TAP A Series, and GigaVUE Cloud Suite Release Notes	
new features, resolved issues, and known issues in this release ;	
important notes regarding installing and upgrading to this release	
Note: Release Notes are not included in the online documentation.	
Note: Registered Customers can log in to My Gigamon to download the Software and Release Notes from the Software and Docs page on to My Gigamon . Refer to How to Download Software and Release Notes from My Gigamon .	
In-Product Help	
GigaVUE-FM Online Help	
how to install, deploy, and operate GigaVUE-FM.	

How to Download Software and Release Notes from My Gigamon

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

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

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

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

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

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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:

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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.

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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 VUE Community

[The VUE 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 VUE 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 VUE 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)