GigaVUE-FM

Centralized Orchestration and Management of Gigamon Visibility and Analytics Fabric

Key Benefits

- Centrally manage, monitor and configure traffic policies for all Gigamon nodes
- Simplify and automate all aspects of defining, deploying, managing and operating a Visibility and Analytics Fabric™ (VAF) at scale
- Integrate with public and private cloud platforms to reduce manual intervention
- Reduce the mean time to resolution (MTTR) of traffic hot spots for NetOps and SecOps teams with auto-discovery of network topology
- Assign rights to specific roles based on the user's job function to lower risk exposure and prevent accidental changes with role-based access control (RBAC)
- Provide business continuity with High Availability for GigaVUE-FM instances
- Expedite and reduce manual effort for VAF deployments via automation and bulk configuration management using REST APIs and Ansible Automation

Use Cases

- Centralized operations centers looking to configure, direct and control traffic from any network (public, private, hybrid cloud, on-premises datacenters or central offices) to security and monitoring tools for analysis
- Network security teams tasked with detecting, reacting and responding to emerging threats based on packet- or flow-based traffic analysis
- Using the Gigamon Visibility and Analytics Fabric to monitor and troubleshoot traffic hot spots
- Operations teams aiming to reduce cost and improve efficiency through automation

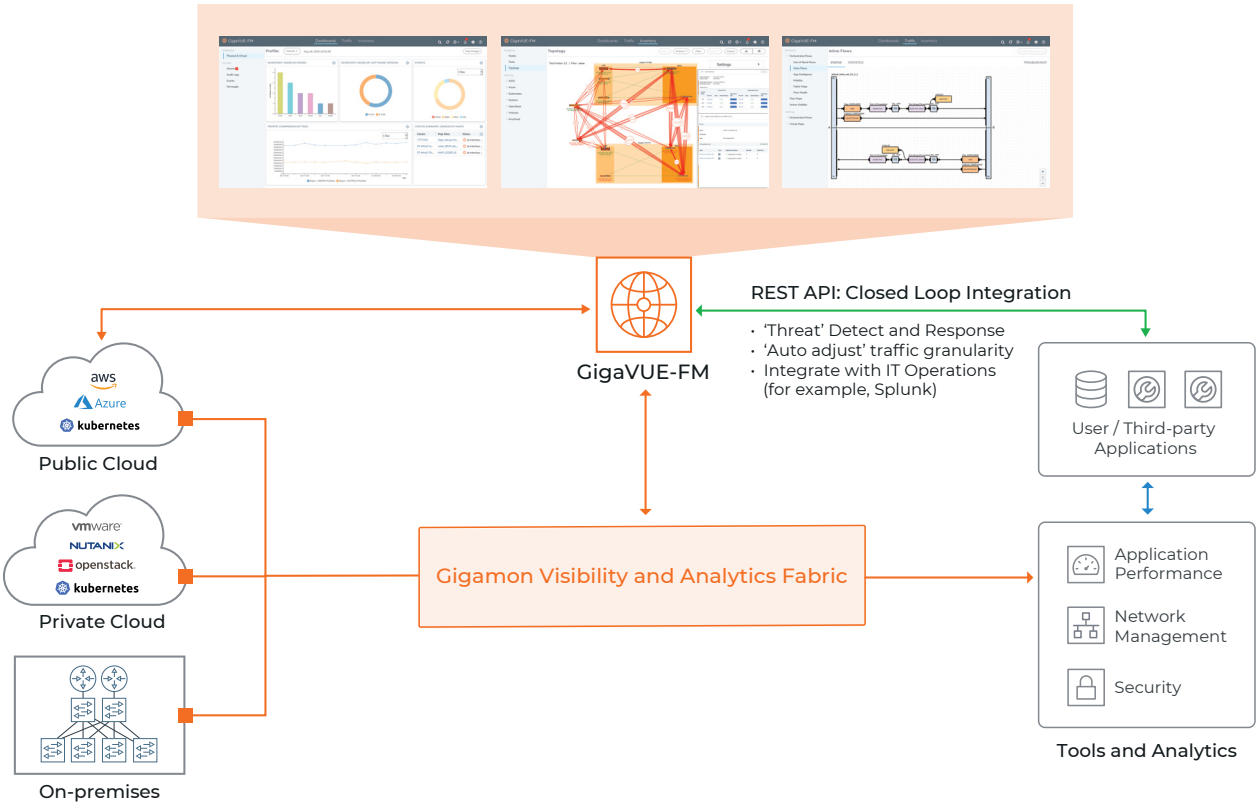

Figure 1. GigaVUE-FM manages all Gigamon visibility nodes, both physical (Gigamon Visibility and Analytics Fabric) and virtual (V Series).

The Gigamon Visibility and Analytics Fabric provides pervasive network visibility across physical, virtual and cloud infrastructure. It also delivers the right traffic to the appropriate security, network and application performance tools. To manage it all, GigaVUE-FM delivers a single-pane-of-glass view of all physical and virtual Gigamon nodes across the Visibility and Analytics Fabric. With GigaVUE-FM, you get an easy-to-use GUI to orchestrate our patented Flow Mapping® and Fabric Mapping traffic policies, visualize network topology connectivity and identify visibility hot spots.

A single instance of GigaVUE-FM can manage up to 1,000 Gigamon physical and virtual visibility nodes across multiple locations, datacenters, and public and private clouds. GigaVUE-FM helps protect against failure and lets you scale seamlessly as the size and complexity of your networks grow.

GigaVUE-FM is available as a software-only virtual appliance for AWS AMI, KVM/OpenStack, Microsoft Azure/Hyper-V, Nutanix AHV and VMware NSX/ESX. It is also available as a hardware appliance for deployments where turnkey solutions are preferred for management, or when the reach and scale of the Visibility and Analytics Fabric needs dedicated compute capacity for management. The GigaVUE-FM software-only option is available at no charge for single physical-node management and is also available as a trial for customers wishing to try deployments on-premises or in public, private or hybrid cloud environments.

Key Features and Benefits

Intent-Based Orchestration	Simplifies and automates all aspects of defining, deploying, managing and operating a Visibility and Analytics Fabric
Centralized Orchestration and Management	Centralizes management, monitoring and configuration of physical and virtual traffic policies for all Gigamon nodes. Administrators can better map and direct network traffic to security, network and application-performance monitoring tools.
High Availability cluster	GigaVUE-FM provides high availability in a group of three, ensuring no loss of management or view across the Visibility and Analytics Fabric if an active FM goes offline
Tool View	Facilitates tool capacity planning by: • Ensuring the tool is optimally utilized • Empowering users to select the best tool to route network traffic based on resource availability • Tracking tool storage capacity and data wraparound time
Popular workflow configuration	Simplifies deployment cases such as: • Inline security tools, including traffic forwarding and bypass • Visibility into encrypted traffic with inline SSL/TLS decryption • Application-aware filtering and metadata • Flow Mapping across hundreds of nodes in one or more clusters
Role-based access control (RBAC)	Allows users to be assigned specific roles based on their function to increase security and prevent unauthorized changes. Create, read, update and delete operations at granular levels using tags.
Single sign-on	Simplifies secure single sign-on access to enterprises by integrating with identity and access management (IAM) vendors such as Okta
Alarm management	Reduces mean time to resolution (MTTR) by providing root cause of a fault in the fabric
Network-wide reporting	Provides summarization and customization of dashboards for inventory, node/cluster status, events and audit trail with options to export and schedule HTML/PDF reports for offline viewing
Grouping of visibility nodes	Enables grouping of visibility nodes by categories, like sites, datacenters and locations for hierarchical management and monitoring
License Manager	Manages GigaSMART® application licenses for the Gigamon Visibility and Analytics Fabric, and floating licenses between duplicate HC Series nodes
Scheduling capabilities	Automates future and periodic actions including: • Scheduling of firmware version updates to one or many visibility nodes • Scheduling of visibility node configuration backups that allow you to restore a good baseline if inadvertent changes are applied • Back up and restoration of the GigaVUE-FM configuration database, to allow for GigaVUE-FM appliance replacement or restoration to a well-known configuration
Programmable integration interfaces, including: • REST XML API • Ansible – Automation SDK • Gigamon Visibility App for Splunk	Facilitates operations teams to: • Automate bulk fabric configurations, reducing the overall time for fabric deployments • Integrate inventory, health, port and traffic insights of the Gigamon Visibility and Analytics Fabric into Splunk Enterprise for correlation and analysis • Integrate with cloud and virtual infrastructure managers like Amazon CloudWatch, Microsoft Azure Resource Manager, OpenStack Horizon and VMware ESXi/NSX-T • Empower traffic monitoring or IT operation management tools to discover visibility and analytics fabric nodes for inventory and status collection
Highly scalable	Simplifies configuration and management of large-scale environments; up to 1,000 visibility nodes with a single FM instance