DATA SHEET

GigaVUE-VM

Product Description

The Gigamon® GigaVUE-VM node provides an intelligent filtering technology that allows virtual machine (VM) traffic flows of interest to be selected, forwarded, and delivered to the monitoring infrastructure centrally attached to the GigaVUE® platforms, thereby eliminating any traffic blind spots in the enterprise private clouds or Service Provider NFV deployments.

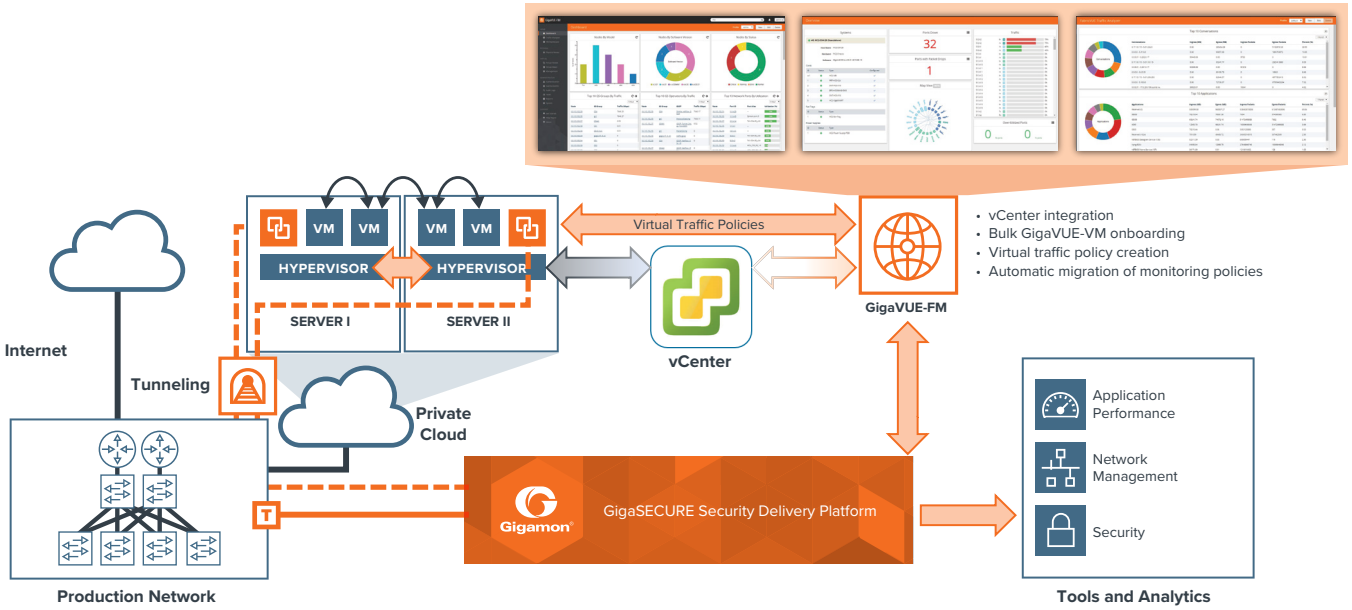
Table 1: Features and Benefits

Features	Benefits
Visibility into VM Traffic	Intelligent selection, filtering, and forwarding of VM traffic to the monitoring and tool infrastructure; extend the reach and leverage of existing tools to monitor virtual network infrastructure; onboard virtual traffic visibility for n-tier application cluster.
Multi-hypervisor support	Supports the most popular private cloud hypervisors and VMware ESXi
Virtual switchagnostic solution	Support for VMware vSS/vDS
Automated Visibility for VMware NSX Data Center	Use VMware NSX Data Center Dynamic Service Insertion to associate visibility policies with security groups, thereby providing continuous and automated traffic visibility for applications as they scale up
Centralized management	Manage and monitor the physical and virtual fabric nodes using GigaVUE-FM while also configuring the traffic policies to access, select, transform, and deliver the traffic to the tools.
Support for packet slicing	Conserve production network backhaul and optimize monitoring infrastructure processing by slicing VM traffic at required offset, before forwarding it for analysis.
Tunneling support (standards L2 GRE encapsulation)	Leverage the production network to tunnel and forward the filtered virtual traffic from the hypervisor to the GigaVUE platforms; tenant-based IP Tunneling facilitates isolation, privacy, and compliance of monitoring traffic. Simplified virtual traffic policy creation to identify and select the physical tunnel termination end-point where the filtered and transformed virtual workload traffic is to be delivered.
Optimized traffic delivery	Tunneled traffic can be marked with DSCP values for per hop behavior to get preferential treatment on the production network. If changing MTU size in the network is an issue, fragmentation can be enabled to transport the packets using standard MTU sizes. These packets will then be re-assembled at the GigaSECURE® nodes before further analysis.
Support for vMotion and LiveMigration	Ensure the integrity of visibility and monitoring policies in a dynamic infrastructure, have real-time adjustment of monitoring and security posture to virtual network changes, and the ability to respond to disasters/failures without losing NOC insight and control.
Hotspot monitoring	Pro-actively monitor and troubleshoot GigaVUE-VM nodes by elevating Top-N and Bottom-N virtual traffic policies to the centralized dashboards.

Having an end-to-end solution that provides traffic visibility into both the physical and virtualized infrastructures empowers the infrastructure administrators and operators with the insight needed to ensure service quality, security compliancy, and maintain business continuity.

VMware ESX Integration

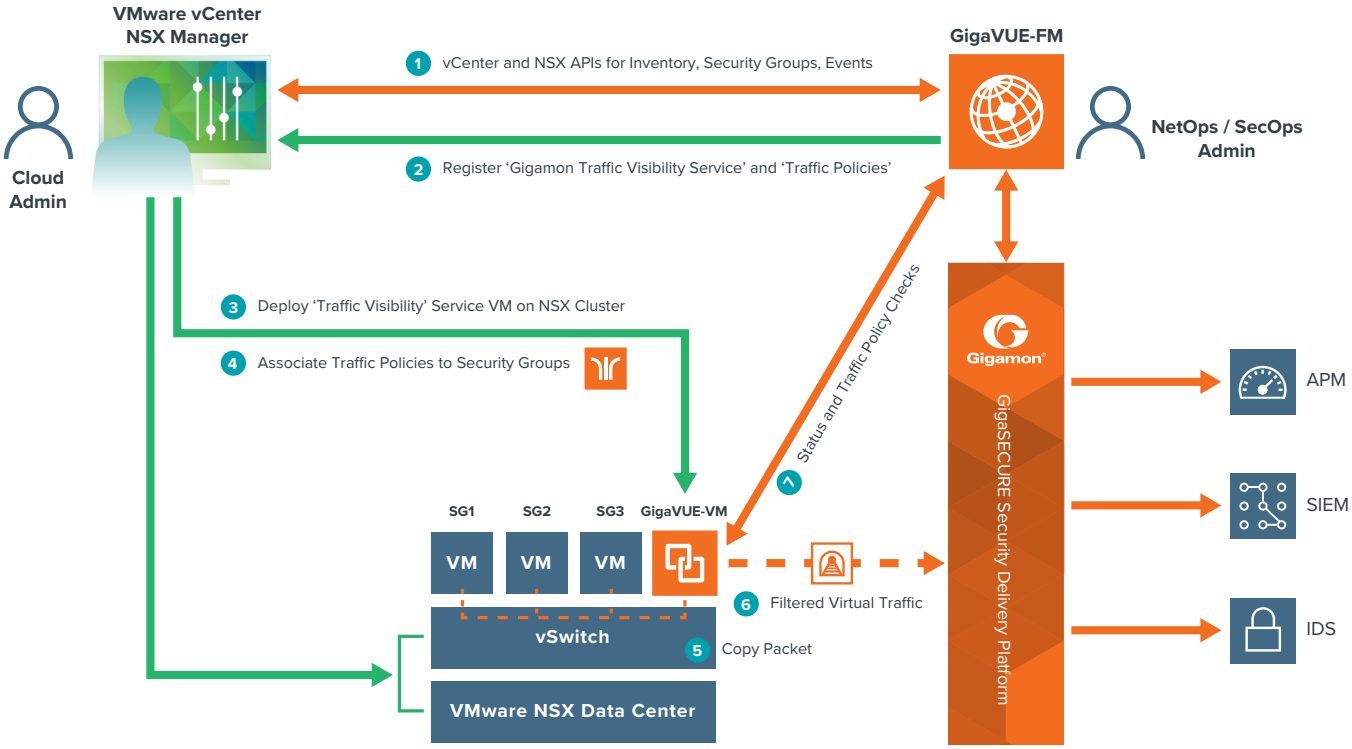
- A vSphere guest VM, the light footprint GigaVUE-VM fabric node is installed without the need for special software, kernel modules, or changes to the hypervisor
- GigaVUE-FM (Fabric Manager), Gigamon's centralized management application, tightly integrates with VMware vCenter and to facilitate simplified bulk onboarding of the GigaVUE-VM fabric nodes and configuration of the VM level traffic monitoring policies
- Leveraging vCenter APIs, GigaVUE-FM can track vMotion events across Distributed Resource Scheduler (DRS) and high-availability (HA) cluster environments, enabling visibility policies to be tied to the monitored VMs and migrate with the VMs as they move across physical hosts; this automation provides Active Visibility into an agile and dynamic SDDC
- GigaVUE-VM is auto-pinned to a host, so DRS doesn't impact continuous traffic visibility
- In addition to ESXi hypervisor, GigaVUE-VM also extends traffic visibility to the VMs deployed on the VMware NSX-V network hypervisor, a network virtualization platform that delivers the operational model of a hypervisor for the network



GigaVUE-VM integrated with GigaSECURE® Security Delivery Platform and VMware's vCenter

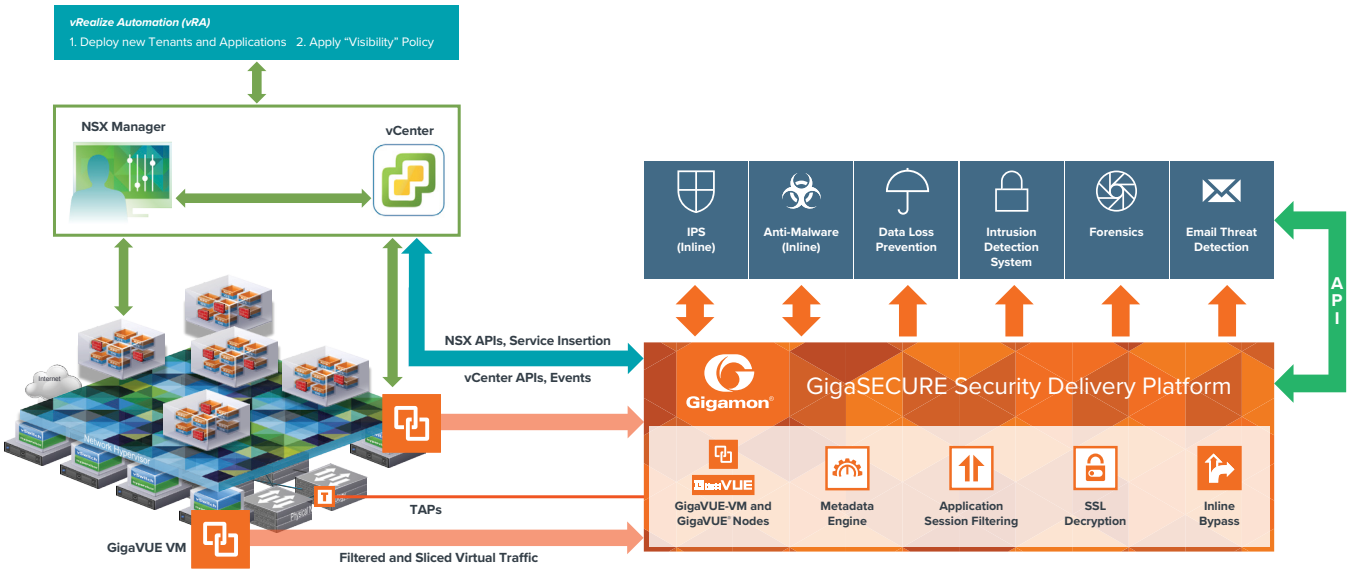
VMware NSX Integration

- Automate traffic visibility for securing the micro-segmented SDDC
- Enable SecOps and NetOps teams to automate the selection, filtering, and forwarding of the ever-growing east-west virtual traffic for security and monitoring analytics
- Leverage the power of the NSX network virtualization platform and distributed service insertion framework for automated deployment of virtual components in the GigaSECURE® Security Delivery Platform, while also enabling dynamic provisioning of visibility traffic policies within the customer's software defined data center
- Insert a Visibility Service using the GigaSECURE platform's virtual visibility component, GigaVUE-VM
- Define security or traffic policies that select, filter, and forward the tenant's virtual traffic to security and monitoring tools for analysis
- Auto update this service and the traffic policies as new tenants come onboard or existing tenant's security groups scale dynamically

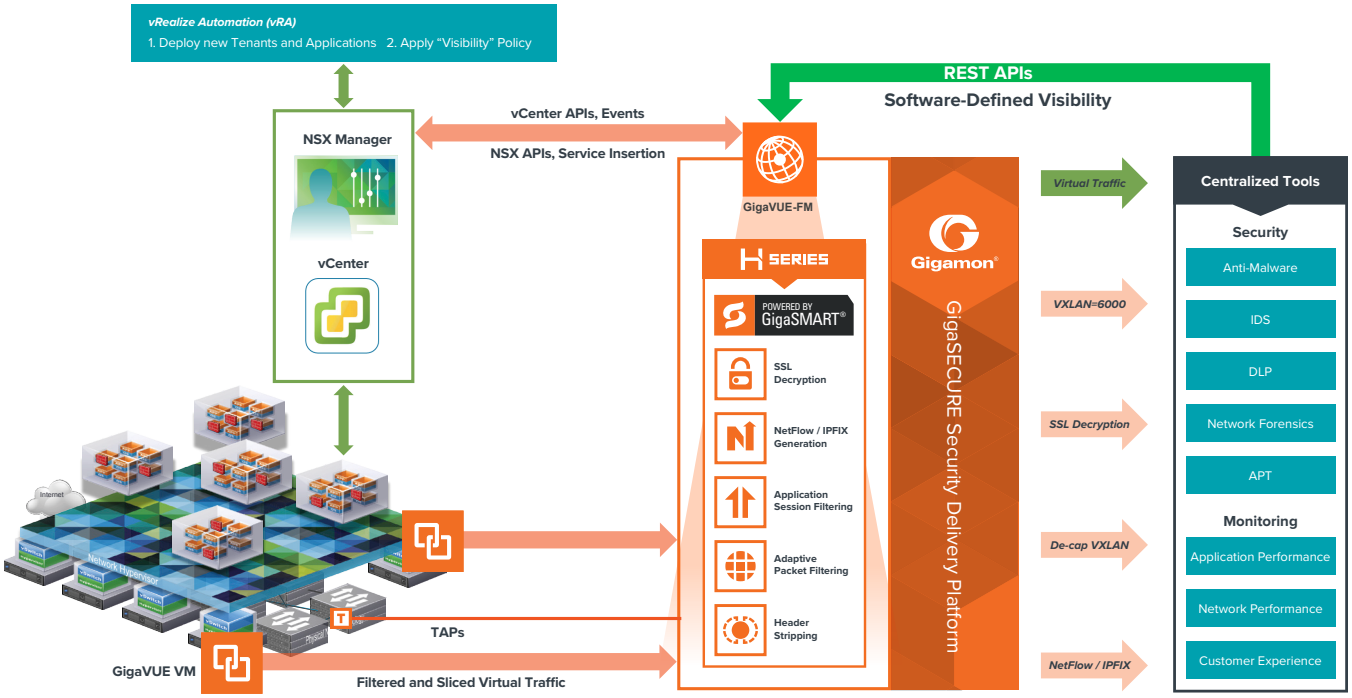


GigaVUE-VM on VMware NSX Data Center integrated with GigaSECURE Security Delivery Platform

Use Cases with VMware NSX



Secure the SDDC with GigaSECURE – Dynamic Service Insertion of GigaVUE-VM



Tenant level Traffic Visibility for Monitoring – Dynamic Service Insertion of GigaVUE-VM

Table 2: Hardware Requirements

Requirement	Description
Hypervisor	• VMware ESXi 6.0.x to 6.5.x • VMware NSX Data Center 6.2.x to 6.4.x
CPU	• One or more 64-bit x86 CPUs with virtualization assist (Intel-VT or AMD-V) enabled
Network	• At least one 1 Gbps NIC

The following table lists the virtual computing resources that the VMware ESXi server must provide for each GigaVUE-VM node instance.

Table 3: Computing Requirements for GigaVUE-VM on VMware

Requirement	Description
Memory	• Minimum 2Gb memory
Virtual CPU (VCPU)	• One (1)
Virtual Storage for OS	• 4Gb using Virtual IDE
Virtual network interfaces	• Maximum: 10 Network Adapters • Network Adapter 1: GigaVUE-VM Management Port • Network Adapter 2: GigaVUE-VM Tunneling Port • Network Adapters 3 – 10: GigaVUE-VM Network Ports

Support and Services

Gigamon offers a range of support and maintenance services. For details regarding Gigamon's Limited Warranty and its Product Support and Software Maintenance Programs, visit www.gigamon.com/support-and-services/overview-and-benefits

Ordering Information

Table 4: GigaVUE-VM for VMware

Part Number	Description
GFM-VM010	GigaVUE-VM 10 Pack Bundle SW License Extension
GFM-VM050	GigaVUE-VM 50 Pack Bundle SW License Extension
GFM-VM100	GigaVUE-VM 100 Pack Bundle SW License Extension
GFM-VM250	GigaVUE-VM 250 Pack Bundle SW License Extension
GFM-VM1000	GigaVUE-VM 1000 Pack Bundle SW License Extension
GFM-VM-NSX	Add-on NSX Integration license for GFM-FM001, GFM-FM005, GFM-FM010, GFM-HW0-FM010 Note that customer still needs to purchase the VM packs for the number of hosts

For More Information

For more information about Gigamon or to contact your local representative, please visit: www.gigamon.com

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