Product Description

The Gigamon® GigaVUE-VM Visibility Fabric™ node provides an intelligent filtering technology that allows specific virtual machine (VM) traffic flows of interest to be selected, forwarded, and delivered to the appropriate monitoring, analysis, or security devices.

As a native VMware vSphere 5 virtual machine, the GigaVUE-VM fabric node is installed without the need for special software, invasive agents, or changes to the hypervisor. System managers can achieve the same packet-level traffic visibility between virtualized applications as is normally available between discrete physical applications and servers. Centralized Management using GigaVUE-FM (Fabric Manager) facilitates configuration and management of GigaVUE-VM fabric nodes.

GigaVUE-VM fabric nodes tightly integrate with the virtualization management platform. Leveraging standards-based open APIs, GigaVUE-VM fabric nodes can track VMware 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 framework enables the synchronization of visibility policies and facilitates the seamless, real-time adjustment of the monitoring and security posture in an agile virtual infrastructure.

Currently deployed monitoring and management tools can be utilized to analyze traffic flowing across the virtual infrastructure using best-of-breed virtual switching including Distributed Virtual Switch (DVS) and Cisco Nexus 1000V. Having an end-to-end solution that spans both physical and virtualized infrastructures empowers application, server, and network engineers with the insight needed to ensure service quality and maintain business continuity.

Table 1: Features & Benefits

Feature	Benefits
Visibility into VM Traffic	• VM introspection provides rich detail of applications and services in the virtual environment • Visibility and comprehensive auditing of intra-host, inter-host, as well as traffic external to the data centers communicating with the VM • Extend the reach and leverage existing, deployed tools to monitor virtual network infrastructure
Intelligent Detection, Selection, and Filtering of Inter-VM Traffic	• Optimize resource consumption of monitoring tools by forwarding only specific traffic flows of interest
Support for Packet Slicing	• Further reduce IO resources by removing irrelevant information with packet slicing before sending to the tool • Optimize long-term storage of data by capturing only data of interest
Integration with Visibility Fabric Architecture	• Seamless end-to-end visibility across physical and virtual network infrastructure • Optimize monitoring infrastructure by enabling aggregation, replication, and sharing of traffic streams across multiple monitoring tools and IT teams
Gigamon Tunneling Support and ERSPAN Tunneling Support	• Deliver traffic to existing monitoring and analysis tools • Seamless visibility of VM traffic across remote data centers using a centralized tool infrastructure • Tenant-based IP Tunneling facilitates tenant-based isolation, privacy, and compliance of monitoring traffic • Leverage existing IP-based network infrastructure to gain access to virtual traffic in a remote location
Support for vMotion	• Ensure integrity of visibility and monitoring policies in a dynamic infrastructure • Real-time adjustment of monitoring and security posture to virtual network changes • Respond to disasters/failures without losing NOC insight and control
Support for VMware, vSS, vDS and Cisco Nexus 1000V	• Maintain end-to-end compliance, security, and monitoring in environments including VMware and Cisco virtual switches
Centralized Management	• Reduce OPEX by maintaining and configuring multiple instances of GigaVUE-VM fabric nodes using GigaVUE-FM fabric manager • Seamlessly install and upgrade of GigaVUE-VM fabric nodes across hundreds of ESXi hosts leveraging the bulk-deployment capabilities of GigaVUE-FM

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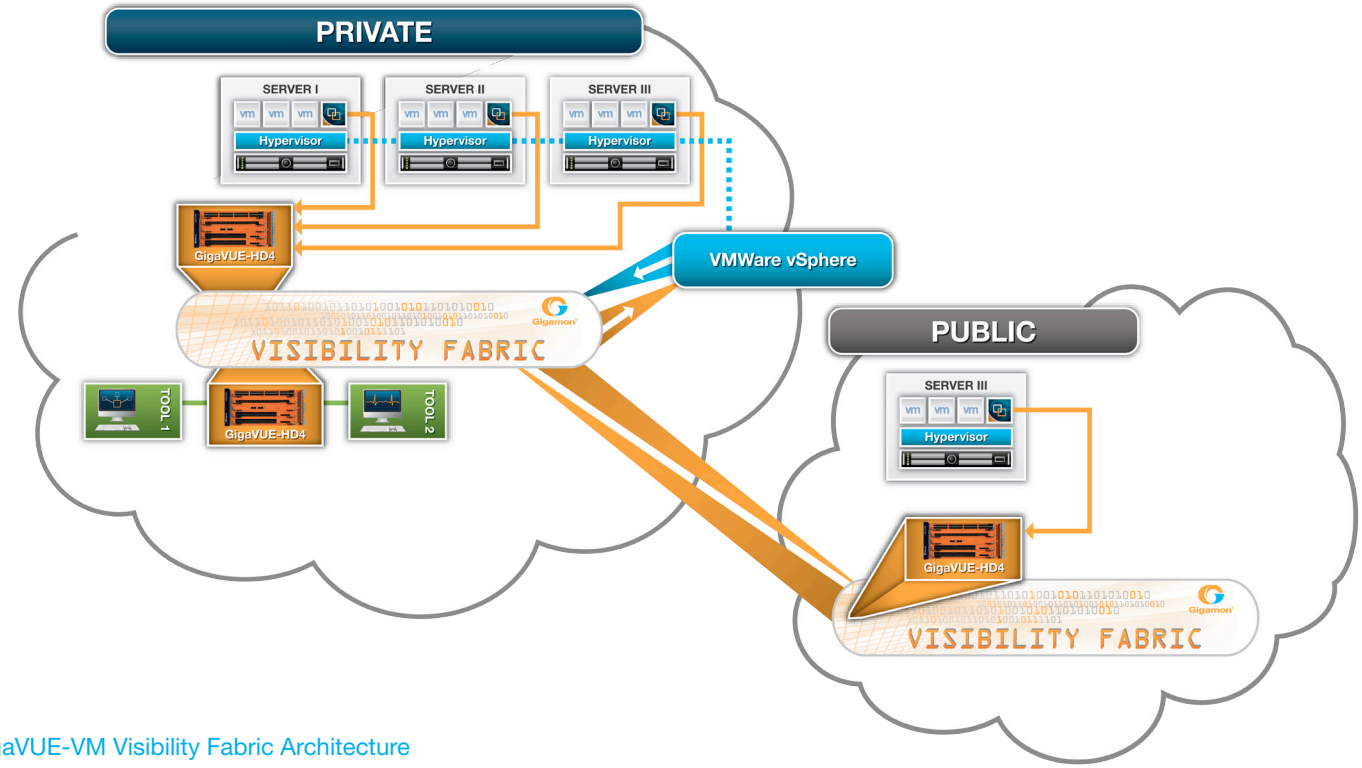

The GigaVUE-VM Visibility Fabric Architecture

The following describes the minimum requirements for the hardware on which VMware ESXi runs GigaVUE-VM fabric nodes.

Table 2: Hardware Requirements:

Requirement	Description
ESXi Hypervisor	• VMware vSphere 5.0 (and above) ESXi Host Enterprise Plus edition
CPU	• One or more 64-bit x86 CPUs with virtualization assist (Intel-VT or AMD-V) enabled Note: To run GigaVUE-VM, hardware support for virtualization must be enabled on the VMware ESXi host and the BIOS option for virtualization support is not disabled.
RAM	• At least 8GB
Disk Space	• Locally attached storage (PATA, SATA, SCSI) with minimum 40GB of disk space available
Network Port Groups	• One network port group for management communications with the GigaVUE-VM node • One network port group for the starting point of the GigaSMART® tunnel (GMIP and ERSPAN) used to move virtual packets to the Gigamon Visibility Fabric architecture • One network port for the network monitoring of traffic crossing the virtual distributed switch Note: 10Gb network interfaces are preferred for distributed switch.

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

Table 3: Computing Requirements

Requirement	Description
Memory	• Minimum 2GB memory
Virtual CPU (VCPU)	• One (1)
Virtual Storage for OS	• 8GB using Virtual IDE
Virtual Network Interfaces	• Minimum: 3 VNICs using E1000 Driver • Maximum: 10 VNICs • VNIC0 - Management • VNIC1 - GigaVUE-VM Tunneling • VNIC2-9 - GigaVUE-VM Network Receive

Table 4: Ordering Information

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
SVC-000	12 Months Standard Support and Software Maintenance
SVC-001	1st Year Premium 24x7 Upgrade
SVC-002	12 Months Premium 24x7 Support and Software Maintenance

For More Information

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

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