



## Features and Benefits

- Extend physical traffic monitoring and analysis into the virtual world
- Select and forward hypervisor traffic of interest to network monitoring tools
- Enable the move from tactical to strategic virtualization through powerful traffic management
- Maintain continuous traffic visibility before and after vMotion events

## Applications

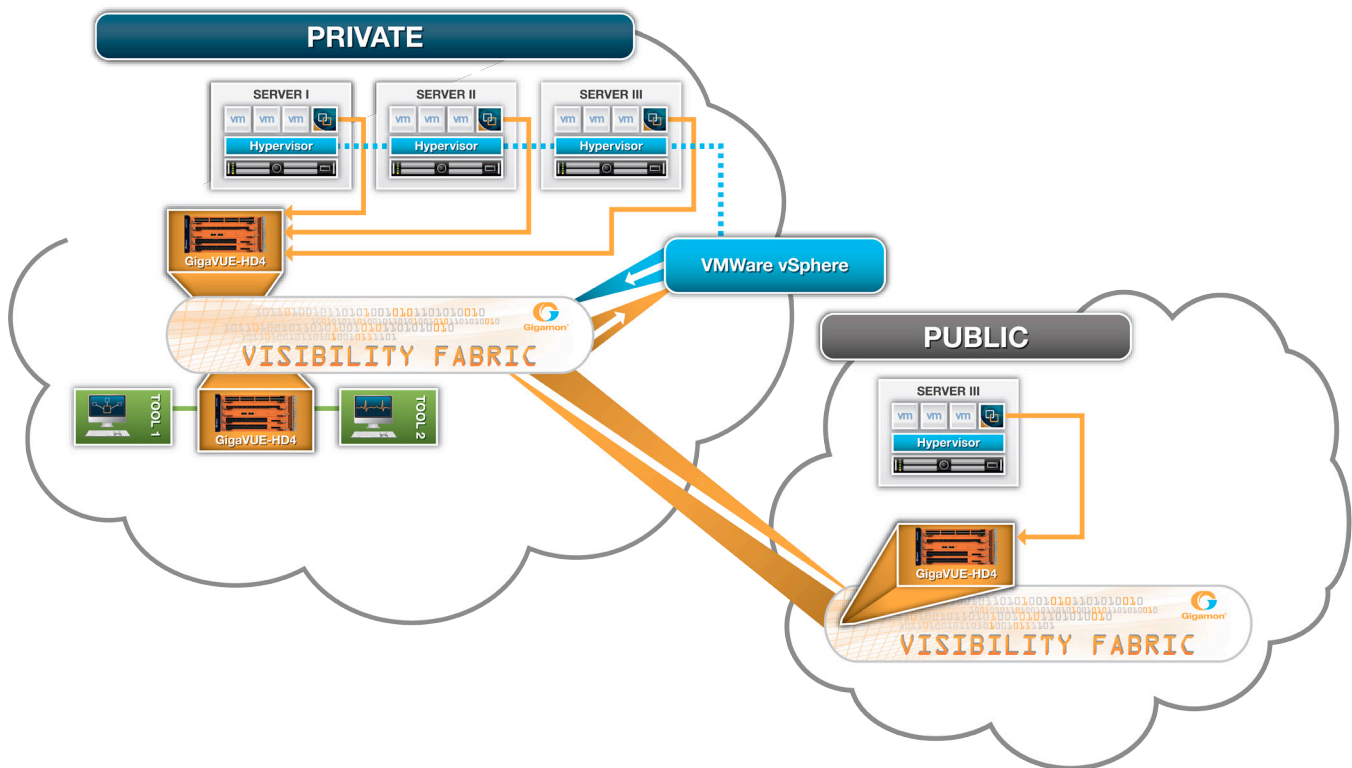
- Environments where intelligent selection of network traffic from physical and hypervisor networks is needed
- Mid-and large-scale VMware virtualized data center environments
- Architectures that have mission critical, 'East – West' virtual machine traffic
- Seamless visibility of virtual machine traffic across multiple data centers, including hybrid cloud infrastructures, with centralized tool systems

## Product Description

As mission-critical workloads migrate to virtual servers, an increasingly large share of network traffic is occurring between virtual machines (VMs) residing on the same host. Selected data streams flowing between these virtual machines need to be pushed out to external monitoring tools without introducing any security concerns. Visibility into this virtual switching infrastructure is critical to managing end-to-end service delivery.

The Gigamon<sup>®</sup> GigaVUE-VM Visibility Fabric<sup>™</sup> node provides an intelligent filtering technology that allows specific traffic flows 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 that is normally available between discrete physical applications and servers. Centralized Management using GigaVUE-FM (fabric manager) facilitates configuration and management of the GigaVUE-VM fabric nodes. GigaVUE-VM can be seamlessly installed across hundreds of ESXi hosts by taking advantage of the bulk-deployment capabilities of GigaVUE-FM.



### The GigaVUE-VM Visibility Fabric Architecture

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 visibility policies to synchronize and facilitates the seamless, real-time adjustment of the monitoring and security posture in an agile virtual infrastructure.

In the Cisco Nexus 1000V Series, traffic between virtual machines on the same host is switched locally without ever hitting the physical switch, thus creating blind spots for the monitoring and management tools. With GigaVUE-VM 2.1 fabric nodes deployed, virtual traffic across these environments can be intelligently detected, selected, filtered, and forwarded locally

or remotely, without any changes to the operational procedure, without risk to the stability of the underlying hypervisor, or adding any further complexity to the underlying 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.

The ability to intelligently and selectively forward traffic from the hypervisor allows IT professionals to gain the visibility essential to monitor and troubleshoot applications, networks, and virtualized data centers. Having an end-to-end solution that spans both physical and virtualized infrastructure empowers application, server, and network engineers with the insight needed to ensure service quality and maintain business productivity.