GigaVUE Cloud Suite for VMware
Dynamic Application Layer Visibility for Virtual Workloads

GigaVUE® Cloud Suite for VMware provides an industry-leading solution that allows VM traffic flows within a private cloud managed by vCenter to be acquired, optimized and delivered to network and application performance monitoring tools.

GigaVUE-FM leverages vMotion and other techniques to ensure visibility and policy integrity. GigaVUE-FM is tightly integrated with vCenter to automatically provide continuous VM visibility in a micro-segmented SDDC.

**KEY FEATURES**
- Automate deploy G-vTAP VM instances and send traffic to other nodes in the Gigamon Visibility Fabric™ or cloud-based tools
- Selectively slice unnecessary payload from packets
- Integrate tightly with vCenter for orchestration
- Provision and configure G-vTAP VM instances and set up mirroring of traffic from GigaVUE-FM
- Track vMotion and events across DSR and HA clusters

**KEY BENEFITS**
- Complete visibility into VM traffic; scale to any number of servers
- Automatically discover new workloads and adjust policies as needed
- Delivery of optimized traffic to the proper security and monitoring tools
- Reduce traffic backhaul bandwidth and improve tool effectiveness by removing unnecessary packet payload
- Significantly lower tool processing demands by optimizing the traffic that is forwarded
Virtualized Data Center Traffic Keeps Growing

With the migration of applications to virtual servers and today’s modular and distributed application architectures, more and more application traffic never hits the physical network.

While solutions for virtual machine (VM) monitoring are well developed, they focus on server status with available CPU, memory, storage and overall north-south network bandwidth. Very little insight into VM-to-VM traffic is being offered by legacy VM monitoring tools.

With exponential growth in virtualized traffic within the data center, a challenge for a centralized monitoring infrastructure is accessing east-west virtual traffic for application, network and security analysis and eliminating any blind spots in enterprise private clouds or service provider NFV deployments. Only Gigamon provides application layer traffic visibility solutions for virtual workloads in VMware-powered SDDC (ESXi, NSX-V, and NSX-T) and multi-tenant clouds.

Key Considerations

IT, cloud and security architects are responsible for addressing the following questions before successfully deploying applications in virtual machines with VMware vCenter-based orchestration to ensure the optimal traffic is processing and distribution:

- How can I get visibility into VM traffic as VMs are ephemeral and constantly in motion?
- Can I ensure scalable visibility as deployed apps grow and can span numerous VMs each?
- Is there a way to automate the configured policies across thousands of VMs in real time?
- How do I detect and respond to security or network anomalies when deploying virtualized apps?
- Are there efficient ways to consolidate network traffic flows to security and monitoring tools?

Not addressing these considerations slows down the transition to VM-based applications, limits the use of data center automation and leaves the organization vulnerable to potential security breaches.

THE SOLUTION

GigaVUE Cloud Suite for VMware delivers intelligent network traffic visibility for workloads running in VMs, on premises or in private cloud environments.

The solution enables increased security, operational efficiency and scales across an unlimited number of VMs to:

- Optimize traffic processing and distribution
- Leverage GigaSMART application intelligence to dramatically reduce traffic loads

GigaVUE Cloud Suite for VMware consists of three key components:

- Traffic acquisition using G-vTAP VM instances
- Traffic aggregation, intelligence and distribution using GigaVUE physical appliances
- Centralized orchestration and management using GigaVUE-FM
**Conclusion**

Whether your organization is already using vCloud with vCenter/NSX orchestration or considering a future migration, GigaVUE Cloud Suite for VMware provides intelligent network traffic visibility for virtualized workloads, on premises or in the private cloud.

Integration with vCenter/NSX APIs automatically deploys and scales a visibility tier in all required locations, collects aggregated traffic and applies advanced intelligence prior to sending selected traffic to existing security tools. With the GigaVUE Cloud Suite, organizations can obtain consistent insight into their infrastructure across VMware-based environments.

For more information on GigaVUE Cloud Suite for VMware, visit gigamon.com/products/access-traffic/virtual-nodes/gigavue-cloud-suite-vmware.html