GigaVUE Cloud Suite for Nutanix

Unified joint solution has certified integration with Nutanix’s Prism and Flow management automation suite for comprehensive insight and control.

Key Features

- Gigamon G-vTAP VM virtual machines are automatically deployed and traffic sent to the visibility tier.
- Tight integration with Nutanix Prism and Flow for orchestration and support for Nutanix AHV.
- Advanced visibility for hybrid architectures with single pane of glass fabric management with GigaVUE-FM.
- Leverage advanced capabilities with the Visibility and Analytics Fabric such as GigaSMART™ intelligence — includes application intelligence, packet slicing, data de-duplication, masking, decapsulation, header stripping, and more.

Key Benefits

- Optimize traffic processing and distribution with 100 percent visibility while reducing load on tools.
- Complete visibility into inter-VM traffic on Nutanix clusters; scales to support any number of virtualized servers.
- Discover new workloads and automatically update the Gigamon Visibility and Analytics Fabric without any manual intervention.
- Improve tool effectiveness, obtain superior performance and accelerate troubleshooting.
GigaVUE Cloud Suite for Nutanix Components

G-vTAP VM
For traffic acquisition, G-vTAP VM virtual machines are deployed as a Nutanix AHV guest VM on each hypervisor. G-vTAP VM receives copied packets from each of the other VMs on the same server through service insertion on a virtual switch. They subsequently send mirrored traffic to the visibility nodes. Key benefits include:

- Single, lightweight VM per hypervisor minimizes impact on compute nodes and delivers several gigabits per second of traffic per instance
- No need to run special software or changes to kernel modules
- Reduces application downtime — there is no need to redesign applications when adding new tools
- Optionally set VM host affinity by choosing the required nodes to run G-vTAP VM
- Automatic Target Selection (ATS) automatically extracts traffic of interest from any containerized workload
- Flow Mapping for Selection of Layer 2 to 4 traffic

GigaVUE Physical Appliances
Traffic aggregation, intelligence and distribution occurs within the GigaVUE-HC Series visibility nodes, which are deployed within the visibility tier. Advanced transformations on the aggregated network traffic can be performed before it is delivered to the tools. Key benefits include:

- Generate NetFlow/IPFIX flow records from network traffic to determine IP source and destination
- Transform headers: Modify content in the header (L2–L4) to ensure security and segregation of sensitive information
- Handle sensitive data including slicing, sampling and masking packets to optimize traffic sent to tools, reducing tool overload
- Extract application-level intelligence: Identify thousands of applications and extract traffic, and access more than 7,000 application-metadata elements to further refine distribution rules, troubleshoot issues and identify security risks

Figure 2. GigaVUE Fabric Manager for Nutanix displaying fabric, management addresses and status.
GigaVUE-FM
GigaVUE-FM handles centralized orchestration and management. Using RESTful APIs and tight coupling to Nutanix Prism and Flow, GigaVUE-FM instantiates G-vTAP VM on each hypervisor and configures policies for these virtualized instances within multiple environments. Key benefits include:

- Detect changes in VM location and then scale. Automatically move and instantiate G-vTAP VM and adjust the visibility tier, through pre-built integration with Prism APIs
- Enable visibility policies to be tied to the monitored VMs and migrate with the VMs as they move across physical hosts
- Publish REST APIs: Integrate with third-party systems and tools to dynamically adjust traffic received or to orchestrate new traffic policies
- Auto-discover and visualize end-to-end network topology, including VM workloads, by using an intuitive drag-and-drop user interface
- Eliminate manual processes and errors by automatically identifying each new workload and its associated traffic mirroring via ATS, and then configuring the G-vTAP VMs to direct traffic to physical appliance nodes

Minimum Requirements for GigaVUE Cloud Suite Software Components

<table>
<thead>
<tr>
<th>SOFTWARE COMPONENT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
</table>
| **G-vTAP VM**                       | Server hardware:  
  - Hypervisor: Nutanix AHV 5.5x and above  
  - CPU: One or more 64-bit x86 CPUs with virtualization assist (Intel-VT or AMD-V) enabled  
  - Network: At least one 1 Gbps NIC  
  - Disk space: 12 GB  
  Compute instance requirements:  
  - Memory: Minimum 4GB memory  
  - Virtual CPU (vCPU): 2  
  - Virtual network interfaces: 1  
    - Management IP + vTAP interfaces |
| **GigaVUE-FM** (software version)   | Hypervisor: Nutanix AHV 5.5 and above  
  CPU: 4x vCPU  
  Memory: 8GB RAM  
  Disk space: 2x: 40GB  
  Note: GigaVUE-FM must be able to access the controller instance for relaying the commands. |
| **GigaVUE Fabric Controller**       | CPU: 1vCPU  
  Memory: Minimum 1GB  
  Disk space: 10GB  
  Note: Based on the number of GVMs being monitored, multiple fabric controllers are required to scale out horizontally |
Ordering Information

<table>
<thead>
<tr>
<th>PRODUCT CATEGORY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>G-vTAP VM</td>
<td>GFM-NUT-100/GFM-NUT-1000</td>
<td>GFM-NUT-100/-1000: Monthly Term license for traffic visibility up to 100 virtual TAP Points in Nutanix. Min Term is 12 months. Includes bundled Elite Support</td>
</tr>
<tr>
<td>GigaVUE-FM (software)</td>
<td>GFM-FM001/5/10</td>
<td>GigaVUE-FM: Select from 1/5/10 physical visibility fabric nodes to manage from one Fabric Manager</td>
</tr>
<tr>
<td></td>
<td>GFM-FM000</td>
<td>GigaVUE-FM Prime Edition: Manage up to 200 Physical Visibility Fabric Nodes</td>
</tr>
</tbody>
</table>

GigaVUE-HC appliances, GigaSMART cards and Gigamon Application Intelligence

See separate data sheets for details and ordering information

Support and Services

Gigamon offers a range of support and maintenance services. For details regarding the Gigamon Limited Warranty and our product support and Software Maintenance Programs, visit www.gigamon.com/support-and-services/overview-and-benefits.

Learn More

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