

Case Study

Gigamon Provides Deep Observability Across Multi-Layer Network of São Paulo's Finance Department



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ESTEVAN CAMARGO

Network Coordinator, São Paulo Finance Department

Challenges

- Gaining visibility into the SSL-encrypted network
- Feeding traffic data efficiently to security tools
- Inspecting traffic of third-party outsourced contractors

Solutions

- GigaVUE® HC Series
- GigaVUE Cloud Suite™
- GigaVUE-FM fabric manager

Customer Benefits

- Improved automation of the infrastructure layer
- Reduced workload and improved efficiency for security tools
- Protection against malicious packets containing ransomware
- Centralized administration and monitoring

About the Customer

The São Paulo City Finance Department oversees the fiscal health of Brazil's largest city of over 12 million people. It provides financial support services such as planning and managing the city's budget as well as compliance with accounting and financial reporting. Estevan Camargo, network coordinator at the department, works with a team of about 10 people who are responsible for the physical, virtual, and cloud traffic networking layers in the organization.

Business Challenge

Prior to the Gigamon deployment, the network team lacked the visibility they needed into the SSL-encrypted network. They had no way to capture all the traffic from devices such as servers and end-user desktops within the internal network.

Another challenge the team faced was inspecting the traffic of outsourced employees and temporary contractors who needed to connect to the network. They were concerned about the possibility of leaking confidential information via the different network layers.

All organizations in Brazil are required to comply with the General Data Protection Law, or Lei Geral de Proteção de Dados (LGPD), making visibility even more critical.



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Resolution

To gain the deep observability the agency needed across a complex network consisting of physical, virtual, and cloud layers, Camargo and his team deployed an integrated solution combining the power of Gigamon with Nutanix. The Nutanix hybrid multicloud platform enables the department to run applications and data anywhere using a software-defined hyperconverged infrastructure (HCI), which unifies automation for the infrastructure layer and application layer, along with lifecycle management across the enterprise cloud and public cloud. Organizations with such hybrid multicloud environments require complete visibility not only at the packet level, but also at application layers. Gigamon is able to provide full support and visibility into all virtual machines and containers in the HCI to allow administrators to fully understand traffic flows and avoid blind spots.

Camargo and his team chose to deploy a GigaVUE-HCI packet broker with physical and virtual taps using the GigaVUE Cloud Suite, as well as the GigaVUE-FM fabric manager with deduplication and advanced slicing features. Camargo explains, "We selected Gigamon because it is the most complete, total solution that's capable of supporting all kinds of traffic in our current environment."

Gigamon captures and feeds all physical, virtual, and cloud network traffic into the team's security tools—including ExtraHop, the agency's network detection and response (NDR) solution. NDR solutions passively capture network communications and apply advanced techniques, including behavioral analytics and machine learning, to identify both known and unknown attack patterns. This data can be used to perform real-time investigation of security incidents.

Together Gigamon and the ExtraHop solution provide the visibility, contextual awareness, and network traffic analytics that Camargo and his team need to monitor the complex cloud infrastructure. This ensures it maintains great performance, stronger security, and a positive user experience.

Benefit

With the Gigamon deployment, Camargo is now confident that 100% of the traffic will be visible and verified by ExtraHop against malicious packets. He asserts that they are now protected from ransomware attacks in the virtual network, in particular, the private cloud.

The GigaVUE HC Series offers an innovative data access network (DAN) approach that provides exactly the packets needed for a given tool to carry out its function without impacting network operations. Camargo points out that this provides cost savings and efficiency for the ExtraHop appliance.

Camargo particularly appreciates the GigaVUE-FM fabric manager. “The fabric manager has a tremendous benefit to centralize all administration and monitoring resources into an integrated platform,” he observes.

About Gigamon

Gigamon offers a deep observability pipeline that harnesses actionable network-level intelligence to amplify the power of observability tools. This powerful combination enables IT organizations to assure security and compliance governance, speed root-cause analysis of performance bottlenecks, and lower operational overhead associated with managing hybrid and multi-cloud IT infrastructures. The result: modern enterprises realize the full transformational promise of the cloud. Gigamon serves more than 4,000 customers worldwide, including over 80 percent of Fortune 100 enterprises, nine of the 10 largest mobile network providers, and hundreds of governments and educational organizations worldwide. To learn more, please visit gigamon.com.

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