Deep Observability for Pervasive Security with Fortinet and Gigamon

Overview

With breaches occurring across many of today's complex, distributed networks, organizations must design their security architectures not only for prevention, but also for ongoing detection and segmentation to identify, fight, and contain threats that do appear. This means having a combination of technologies that can identify and address threats, coupled with visibility and resilience within the design that helps ensure problems are seen wherever and whenever they occur.

The Gigamon + Fortinet Joint Solution

The Fortinet award-winning next-generation firewalls (NGFWs) provide high-performance, consolidated security for end-to-end protection across the entire network. Through awareness of applications, users, and content within network traffic, FortiGate NGFWs offer comprehensive protection against known and unknown threats – such as ransomware, malicious botnets, zero-day, and encrypted malware. They offer scalable throughput of advanced security services, flexible network interfaces, and performance that helps ensure superior price, performance, and security efficacy.

The Gigamon Deep Observability Pipeline is a great match for the FortiGate devices. It ensures that all East-West traffic across a hybrid or multi-cloud environment is delivered to Fortinet, removing potential blind spots and regardless of adverse network conditions.

For inline deployments, GigaVUE HC Series, a part of the Gigamon Deep Observability Pipeline provides inline bypass protection to the NGFWs, offering two levels of bypass protection: physical and logical. Physical bypass preserves network connectivity and traffic flow. Logical bypass protects against planned or unplanned inline tool events that could disrupt network traffic. Positive and negative heartbeats monitor the health of the inline tool and in the event of a loss of link or loss of heartbeat, GigaVUE HC will bypass traffic around the failing tool. Alternatively, GigaVUE HC can bring down the network link and route the traffic to a redundant network path. GigaVUE HC Series can be deployed in highly resilient and robust arrangements to minimize outages resulting from power outages, inline tool upgrades/maintenance, or inline tool malfunctions.

In addition to the above, deploying FortiGate and Gigamon together has the following benefits:

- **Traffic distribution for load sharing.** Improve the scalability of inline security by distributing the traffic across multiple FortiGate NGFW appliances, allowing them to share the load and inspect more traffic; matching traffic volumes to the scale and number of security appliances deployed rather than having to match the number of network links protected.

- **Agile deployment.** Add, remove or upgrade FortiGate NGFW appliances without disrupting network traffic; converting FortiGate NGFW appliances from out-of-band monitoring to inline inspection on the fly without rewiring. Devices can be moved inline automatically or at the touch of a button, without a network outage.

The Challenge

With an ever-growing reliance on increasingly complex networks, enterprises need security solutions that protect and continuously monitor the broad extent of their disparate infrastructure.

The Solution

The Fortinet Security Fabric and the Gigamon Deep Observability Pipeline provide the pervasive, scalable, highperformance security solution needed to address the demands of today's business world. The award-winning FortiGate® network security platform has solutions for the core, the edge, and access. Coupling these solutions with the Gigamon Deep Observability Pipeline gives the confidence that all traffic from anywhere in the network can be inspected in a timely and efficient manner.

Joint Solution Benefits

- Proven protection of assets and users, without limiting the speed or capacity of the network
- Protection from threats, even if they are in encrypted traffic
- Minimized service outages, planned and unplanned
- Maximized efficacy and efficiency of Fortinet assets
- Individual customer protection with Global Threat Intelligence
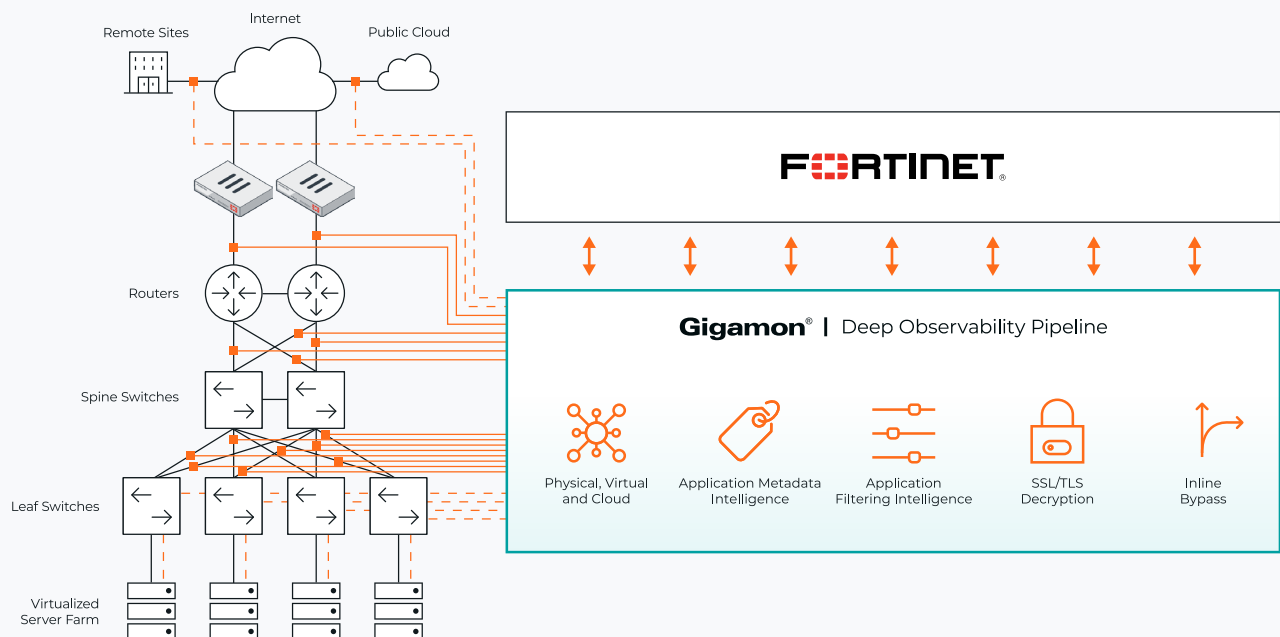
About Gigamon

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.

For more information on Gigamon and Fortinet please visit
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