Joint Solution Brief
Unlock Powerful Insights with ExtraHop and GigaSECURE Security Delivery Platform

The Challenge

IT networks are more complex, network speeds are accelerating, and the variety of monitoring tools are growing. IT Operations teams must manage and secure an ever-growing portfolio of applications that no longer run only in a dedicated infrastructure, but may run in private, hybrid, and public clouds. A new approach is required—one that will empower IT organizations with real-time visibility to manage the performance, availability, and security of these applications.

Integrated Solution

By deeply examining the network streams and transactions that traverse the asynchronously routed network, the joint solution from Gigamon and ExtraHop enables IT organizations to tap into their wire data for troubleshooting, capacity planning, security monitoring, and other real-time insights.

Joint Solution Benefits

- Broad and deep visibility across physical, virtual and cloud network traffic flows to gain full application (L2-L7) visibility in real-time with streaming analytics

- Automatic traffic load distribution and aggregation functionality optimizes traffic

- De-duplicate traffic gathered from multiple collection points and distribute east-west traffic

- Get increased visibility into traffic flows without performance degradation

- Generate metadata (NetFlow/IPFIX) from any traffic flow to avoid unnecessary processing

- Go from raw network data to insights using a streamlined workflow with a seamless interface

Introduction

IT complexity and scale is quickly outstripping the capabilities of traditional network and application monitoring tools. Network speeds are accelerating, not only in total traffic but also in the breadth and diversity of traffic. The number and variety of monitoring tools is also growing. Securing the network and keeping customer data safe is as important as providing a good customer experience. IT Operations teams must manage an ever-growing portfolio of applications that no longer run only in a dedicated infrastructure, but may run in private, hybrid, and public clouds. A new approach is required—one that will empower IT organizations with real-time visibility to manage the performance, availability, and security of these applications.

ExtraHop gives IT operations, network, and security teams comprehensive visibility and contextual history for the digital interactions that are integral to our daily lives and the ultimate measurement for modern business. Surfacing these previously hidden layers of business, security, application and operations data in a single, simple UI, ExtraHop empowers you to take control of your entire IT environment with zero impact to performance. Save time, improve efficiencies, and gain unprecedented insights.

Together with Gigamon's Security Delivery Platform, ExtraHop can enable IT organizations to access their wire data for troubleshooting, capacity planning, security monitoring, and other real-time insights.

The Gigamon and ExtraHop Joint Solution

The ExtraHop platform is a passive network solution that analyzes wire data from Layer 2 – Layer 7 and correlates results for the web, Citrix, database, storage, and services tiers. Connected to Gigamon's GigaSECURE Security Delivery Platform, the ExtraHop platform auto-discovers and auto-classifies applications and devices, delivering significant value out of the box. The real-time insights from the ExtraHop solution support proactive early warning, triage and troubleshooting, mapping and measuring, and other valuable use cases. The combination of Gigamon's Security Delivery Platform with the ExtraHop platform facilitates the deployment of non-invasive wire data analytics at an enterprise-wide scale.

Key GigaSECURE Security Delivery Platform features that augment the value of the ExtraHop platform include:

Easy access to traffic from physical, virtual and cloud networks: The GigaSECURE platform manages and delivers network traffic—in the format required—to ExtraHop. To monitor east-west data center traffic, and public cloud workloads, Gigamon taps virtual traffic and accesss and incorporates it into the GigaSECURE platform for delivery to ExtraHop for comprehensive security, monitoring, and management.
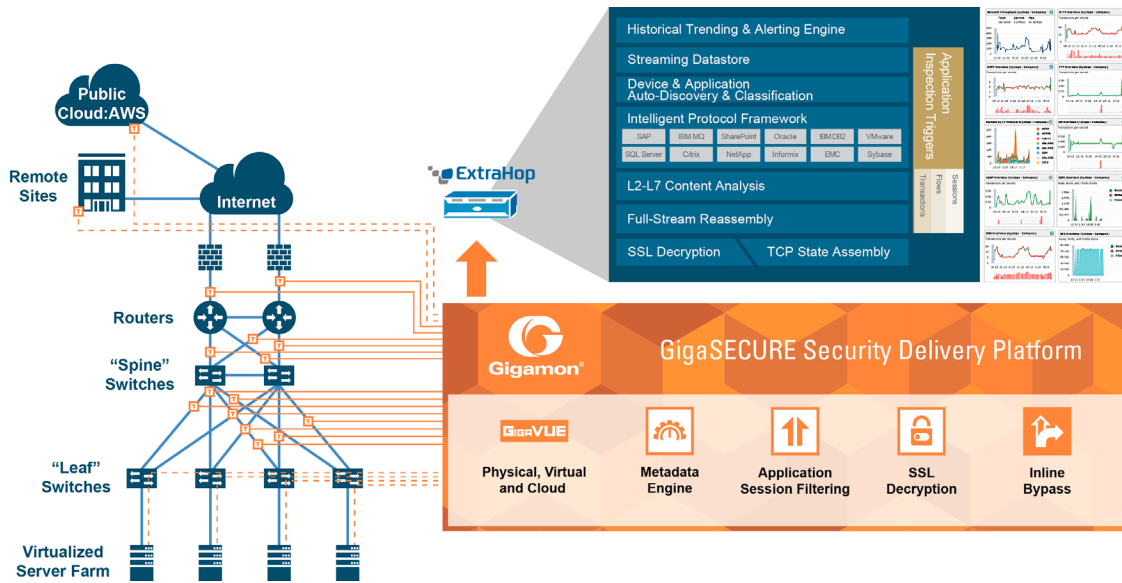
Hybrid Deployment Model

Filtering traffic to only send relevant traffic: The GigaSECURE platform can be configured to send only relevant traffic or sessions to ExtraHop so that it only analyzes traffic that provides value.

De-duplication: Pervasive visibility requires tapping or copying traffic from multiple points in the network, which, in turn, means tools may see the same packet more than once. To avoid unnecessary packet processing overhead on ExtraHop, the GigaSECURE platform has a highly effective de-duplication engine that removes duplicates before they consume resources and helps balance monitoring coverage.

Load balancing to spread traffic across multiple devices: When traffic flows are larger than a single tool can handle, the GigaSECURE platform can split the flow across multiple ExtraHop devices and can also be incrementally grown by adding new devices to those already connected.

Aggregation to minimize tool port use: Where links have low traffic volumes, the GigaSECURE platform can aggregate these together before sending them to ExtraHop to minimize the number of ports needed. By tagging the traffic, the GigaSECURE platform helps enable the identification of the traffic source.

SSL decryption: Real-time SSL decryption integration increases traffic visibility for ExtraHop, broadening its scope for analysis.

Masking for security: The GigaSECURE platform is able to mask sensitive data (e.g., credit card numbers in e-commerce and patient identification in healthcare) within packets before sending them to ExtraHop where operators or other unintended recipients may see them.

NetFlow Generation: If desired, processing intensive tasks can be offloaded from ExtraHop by using the GigaSECURE platform's functionality for generating unsampled, enhanced metadata in NetFlow or IPFIX format from any selected traffic stream.
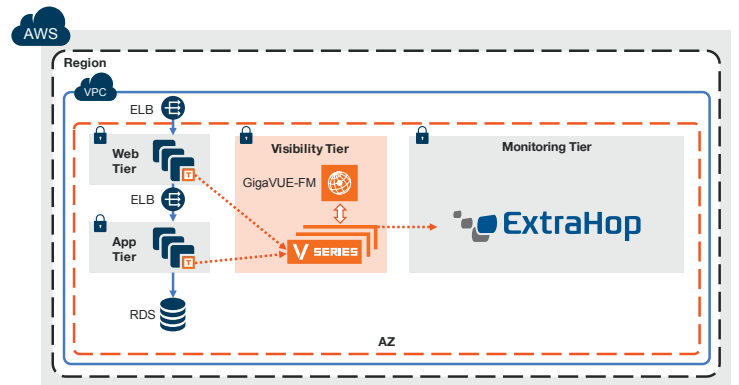
Public Cloud Deployment Model

Learn More

For more information on ExtraHop and Gigamon solutions, contact:

www.extrahop.com

www.gigamon.com

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