Gigamon Announces Precryption Technology, a Breakthrough Cybersecurity Innovation that Brings Deep Observability to Encrypted Traffic Across Any Hybrid Cloud Infrastructure

Powerful technology captures packets inside the Linux kernel, bringing plaintext visibility to encrypted traffic to eliminate the most significant security blind spot across virtual, cloud, and container applications

Santa Clara, Calif. – Sept. 12, 2023 – Gigamon, the leading deep observability company, announced a series of breakthrough cybersecurity innovations to the Gigamon Deep Observability Pipeline in its latest GigaVUE 6.4 software release. Leading the way, Gigamon Precryption™ technology enables IT and security organizations, for the first time with an automated solution, to gain unobscured visibility into encrypted traffic across virtual machine (VM) or container workloads to conduct advanced threat detection, investigation, and response across the hybrid cloud infrastructure – all in a highly efficient manner. While intended for security and privacy, encryption has become a hiding place for cybercriminals, with over 93 percent of malware now lurking behind encryption. With today's announcement at the company's flagship Visualyze Bootcamp, Gigamon is helping IT organizations to eliminate these blind spots by shining a spotlight on this previously concealed threat activity inside encrypted traffic, reinforcing a strong foundation for Zero Trust.

Undetected Threats Lurk in Encrypted Traffic

According to the recent Gigamon 2023 Hybrid Cloud Security Survey, over 70 percent of the 1,000 IT and security leaders surveyed admit they currently don't inspect the encrypted data flowing across their hybrid cloud infrastructure. This presents grave business risk as encrypted data cannot be sufficiently analyzed, and malware threats cannot be detected by security and monitoring tools alone as encrypted data traverses internally, externally, or laterally across an organization.

"As our reliance on the cloud increases, being able to inspect encrypted communications is critical in keeping the United States Holocaust Memorial Museum and its assets safe and secure from threat actors," said Michael Trofi, founder and CISO at Trofi Security. "With Precryption, Gigamon is 10 years ahead of the security industry with technology that detects previously concealed threat activity in a highly efficient manner that allows us to shift away from monolithic firewall architectures and complex decryption standards toward an efficient distributed model where our servers handle the processing without compromising performance. Gigamon Precryption will benefit the security industry as a whole

and is a technology that organizations should closely evaluate as they migrate their operations to the cloud."

Gigamon Precryption Technology: One Solution for All Cloud Traffic, All Encryption Technologies

Gigamon Precryption technology reveals previously concealed threat activity, including lateral movement, malware distribution, and data exfiltration inside virtual, cloud, and container applications. Its innovative approach leverages eBPF technology inside the Linux kernel to deliver plaintext visibility, capturing traffic before encryption or after decryption. No keys need to be intercepted or sniffed, and no expensive decryption is required. Moreover, Precryption technology runs independently of the application, avoiding the operational challenges of classic agent-based approaches.

"Gigamon Precryption technology addresses the critical security challenge of our ability to see into certain encrypted traffic, which has the potential to expose our multi-cloud environment and business to unseen threats," said Michael McCann, network manager, Information Systems at Foxwoods Resort Casino. "When I realized that Gigamon Precryption eliminates the complexity of key management and enables us to detect threats with a single view, it became clear this technology will redefine our security processes and significantly advance our security posture."

"Global enterprises are increasingly successful with unifying security logs in a security data lake, but encrypted traffic poses a real challenge," said Omer Singer, head of cybersecurity strategy at Snowflake. "Industry advances like Gigamon Precryption technology present a compelling path for organizations to turn encrypted cloud traffic into visibility for better security and compliance across hybrid cloud infrastructure."

Gigamon Precryption technology addresses a range of advanced security requirements and:

- Easily enables InfoSec, Network, and CloudOps teams to gain full visibility into encrypted traffic across VM or container workloads.
- Seamlessly works with modern encryption methods, including TLS 1.3 or TLS 1.2 with perfect-forward secrecy (PFS) enabled, and legacy encryption methods, including TLS 1.2 without PFS.
- Fully supports organizations with sensitive personal identifiable information (PII) by masking this traffic from view to maintain data security, compliance, and governance.

- Dramatically reduces the operational complexity associated with decryption by eliminating cumbersome private key management for key sharing, passing, and library updates.
- Efficiently offloads TLS decryption overhead from cloud, security, and observability tools, greatly boosting their capacity and performance.

"In a recent study of large enterprise IT and security leaders, we found that an alarming 50 percent accept the risk and don't decrypt traffic today due to technical and cost challenges," said Christopher Steffen, vice president of research at EMA. "At a time when organizations have a Zero Trust goal, it's clear that half have no hope of achieving it. It's time to pull visibility into encrypted traffic out of the 'too hard, impossible, and too expensive bucket.' With innovations like Gigamon Precryption technology, organizations can get the deep observability they need to meet evolving standards and regulatory compliance and confidently secure their hybrid cloud infrastructure."

"As cloud adoption accelerates across an expanding number of private and public platforms, organizations must also address the escalating risks of threat activity concealed within encrypted traffic," said Michael Dickman, chief product officer at Gigamon. "Until now, decrypting cloud traffic has been arduous and expensive. With Gigamon Precryption technology, we're turning the tables on cybercriminals by bringing deep observability to encrypted traffic, allowing customers to dramatically improve their security posture across any number of clouds and workloads, without any burden on developers."

In a related announcement today, Gigamon partners have embraced Precryption technology for their global security practices.

GigaVUE 6.4 Delivers Seamless Security Integration across Infrastructure and Applications

Today's software release also incorporates several more advanced security capabilities, including:

- **Cloud SSL Decryption** – extending classic on-prem decryption capabilities to a wide range of virtual and cloud platforms
- **Universal Cloud Tap (UCT)** – a single, executable tap for leading platforms, extending across VMs and containers with pre-filtering at the source for maximum efficiency
- **Application Metadata Intelligence (AMI) Integration** – detection of vulnerabilities and suspicious activities across both managed and unmanaged hosts (e.g., IoT devices)

For More Information About Precryption Technology

- Register and watch the sessions at Gigamon Visualyze Bootcamp
- Read the blog, "Precryption Has Arrived"
- View the Precryption technology infographic

About Gigamon

Gigamon® offers a deep observability pipeline that efficiently delivers network-derived intelligence to cloud, security, and observability tools. This helps eliminate security blind spots and reduce tool costs, enabling you to better secure and manage your hybrid cloud infrastructure. Gigamon serves more than 4,000 customers worldwide, including over 80 percent of Fortune 100 enterprises, 9 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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