

Black Hat: Securing the World's Premier Cybersecurity Conferences



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NEIL R. "GRIFTER" WYLER
Network Operations Center Lead at Black Hat

CHALLENGES

- + The Black Hat team has a very short window just a few days — to stand up the equivalent of a full-scale enterprise network.
- + Reliable access to data
- + Reliance on SPAN ports

SOLUTION

- GigaSECURE Security Delivery Platform with:
- + GigaVUE-HC2® visibility nodes with embedded and external taps
 - + GigaSMART® traffic intelligence modules with NetFlow/Metadata Generation and Application Filtering
 - + Inline bypass

CUSTOMER BENEFITS

- + Increased visibility into network traffic
- + Lower security tool costs
- + Elimination of tool port contention

Black Hat is one of the most important event series of the year for information security. The world's top cybersecurity researchers and practitioners descend on Las Vegas, London and Singapore for each region's annual conference. Participants come to learn about the latest exploits and vulnerabilities, and to understand how they can best protect their organization against future risks. In 2017, a recordbreaking crowd of 17,400 security professionals and more than 200 companies participated in the 20th anniversary event in Las Vegas.

CHALLENGES

The Black Hat team has a very short window — just a few days — to stand up the equivalent of a full-scale enterprise network. With more than 100 people in the Black Hat Network Operations Center (NOC) working to help make this happen, it's still a challenge.

To complicate matters is the expertise of Black Hat attendees — many of whom are black hat and white hat hackers — also known, respectively, as proactive and reactive hackers. They naturally tend to poke holes in any network they use and, given this, there is extra pressure to make sure the network is not only stable and scalable, but also secure.

Prior to their relationship with Gigamon, the Black Hat NOC team was limited in the amount of traffic they could monitor with the equipment in place. At times, the network SPAN ports got so overloaded with traffic that the team would have to disconnect one security tool in order to use another. This was a situation that led to an incomplete picture of the security needs of the network.

"The SPAN ports we had in place before working with Gigamon weren't always reliable. We needed better visibility into the traffic to ensure network security," said Bart Stump, operations manager at Black Hat. "Previously, we only had a switch repeating traffic. However, this takes the lowest priority when you start loading up the switch with traffic. It could draw packets, but there were many things we couldn't see without GigaSECURE in place."

"Essentially, we had a problem of scale — and not just from a stability or volume standpoint, but also a visibility standpoint. We needed to have insight into what was taking place on the network at any given time and be able to react quickly." Neil R. "Grifter" Wyler, NOC lead at Black Hat.

SOLUTION

Recognizing Gigamon as the leader in network traffic visibility for cybersecurity and visibility applications, the Black Hat team turned to the company to help ensure they had insight into issues on their network in real time.

"At Black Hat, we want to work with best-of-breed solutions and the companies that we know are going to help us deliver the reliable network service our attendees have come to expect. We reached out to Gigamon to be a part of this solution," said Black Hat General Manager Steve Wylie.

The Black Hat NOC team chose to implement GigaSECURE, the industry's first Security Delivery Platform, to optimize the delivery of network traffic to security tools. The solution offers a consolidated, extensible and powerful foundation that gives pervasive visibility across all infrastructures — physical, virtual and cloud — to better uncover and mitigate threats. Its functionality includes traffic deduplication and header stripping to improve efficiency and reduce unnecessary processing overhead, as well as NetFlow generation that feeds metadata traffic to security tools, including RSA NetWitness and Plixer Scrutinizer.

When coupled with the GigaSECURE Security Delivery Platform, Plixer Scrutinizer, for example, delivers the forensic data necessary to rapidly perform root-cause analysis and help select the best course of action post security incident, dramatically reducing time-to-resolution. Plixer Scrutinizer leverages the automatic traffic load balancing and aggregation functionality of the GigaSECURE Security Deliver Platform to reduce bottlenecks and port oversubscription.

In addition, the GigaSECURE Security Delivery Platform provides complete access to the virtual traffic data that RSA NetWitness Suite needs to help detect advanced persistent threats (APTs) through lateral movement within east-west traffic even when it doesn't touch the physical network. RSA NetWitness also monitors and analyzes unsampled NetFlow data generated by the platform.

RESULTS

"The performance of the Gigamon solution has been exceptional. I don't even know where the ceiling is because we haven't even come close to hitting it. Everything that we've wanted to do with the company's solution, we've been able to do," said Grifter.

"Our whole experience using products from Gigamon has been amazing. They've done a great job in supporting us and the GigaSECURE Security Delivery Platform has handled the voluminous traffic very well," added Stump, Black Hat network operations lead.

ABOUT GIGAMON

Gigamon is the first company to deliver unified network visibility and analytics on all data-in-transit, from raw packets to apps, across physical, virtual and cloud infrastructure. We aggregate, transform and analyze network traffic to solve for critical performance and security needs, including rapid threat detection and response, freeing your organization to drive digital innovation. In short, we enable you to run fast, stay secure and innovate. Gigamon has been awarded over 75 technology patents and enjoys industry-leading customer satisfaction with more than 3,000 organizations, including 80 percent of the Fortune 100. Headquartered in Silicon Valley, Gigamon operates globally. For the full story on how Gigamon can help you, please visit www.gigamon.com.

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