



CASE STUDY: **Enabling PCI DSS Compliance through Automated Penetration Testing**

FROST & SULLIVAN CASE STUDY

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Customer

The customer is a leading payment gateway solution provider that enables consumers to pay for their products and services anywhere, anytime. Its platform provides in-store, online, and mobile payment solutions for thousands of the biggest brands worldwide, including Nordstrom, Macy's, Bloomingdale's, Hyatt, MGM Resorts, and L'Oréal. Headquartered in Silicon Valley and supported by regional offices in Canada, Europe, and Asia, the customer supports over 10,000 global merchants and securely processes millions of payment transactions daily.

The customer's infrastructure is all AWS-based. The flexibility of AWS allows it to easily scale its infrastructure to meet increasing demand, ensuring seamless payment processing for its global merchant network.

Challenge

As a fintech company providing payment gateway services, the customer must comply with the Payment Card Industry Data Security Standard (PCI DSS) to ensure cardholder data security. The customer has attained the highest level of compliance at PCI DSS Level 1, meaning it conducts annual penetration testing to detect vulnerabilities and evaluate its security control efficacy. The rigorous process involves simulating attacks to identify potential weaknesses malicious actors could exploit.

Conducting these tests presents its own set of challenges. Apart from the cost, the human element required for penetration testing consumes valuable workforce bandwidth. Moreover, the customer cited that conducting these tests once a year is no longer sufficient in the face of the evolving threat landscape. More frequent testing is required to keep up with emerging security risks. However, the frequency of penetration tests may be limited due to labor resource constraints and the time-consuming, complex nature of the testing process.



Solution

The customer deployed RidgeBot, an AI-Powered security validation robot from Ridge Security, that can conduct automated penetration testing and attack simulation. Revolutionizing the customer's security testing approach and providing them with continuous threat exposure management, its reports are accepted by the PCI compliance auditor and satisfy PCI DSS requirements. The customer has acquired 100 IP licenses for its internal servers and 10 web licenses for its web services, along with a 1-year end-user subscription that enables it to conduct automated on-demand penetration testing.





Benefits

Deploying RidgeBot has enabled the customer to go beyond mere compliance and significantly improve its overall security posture. With the ability to conduct penetration testing as frequently as desired, the customer can identify vulnerabilities in real time. This proactive approach ensures PCI DSS compliance and enhances its security posture in the face of evolving threats.

RidgeBot's automated penetration testing reduces the need for manual labor, freeing up valuable workforce bandwidth. This allows the customer to achieve more with a smaller team, which maximizes resources and productivity. By achieving heightened security and compliance, the customer can fully leverage its investment and do more for the same cost it previously paid for a single penetration test. This increased security capability not only safeguards its existing customers, but also bolsters business growth as it is a strong selling point for new customers.

“

Ridge Security has provided great value through its automated penetration testing. It is very innovative and can help the industry to move forward, automating and simplifying the whole [penetration testing] process.”

—CISO & IT Director of a global all-in-one payment platform



ABOUT RIDGE SECURITY

Ridge Security enables enterprise and web application teams, ISVs, governments, education, DevOps, anyone responsible for ensuring software security to affordably and efficiently test their systems.

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