

Propelex

HELPING CLIENTS VALIDATE COMPLEX SECURITY ENVIRONMENTS

Security is a necessity in today's environment, and we are obsessed with delivering effective protection without complexity across your on-premise and hybrid/public cloud environments. Propelex provides Red Team pen testing services that combine manual, security expert-led operations with AI-powered automated technologies. Our best-of-both-worlds methodology generates outstanding insights and supports delivery of required security outcomes.

Healthcare

NAME UNDER NDA

ABOUT THE CLIENT

The Client is a US non-profit that connects subscribers to health plans. In addition to patients, the organization is responsible for the security of data and resources for a diverse network of healthcare partners and providers.

GOALS

The Client required a proven security partner to assess and validate security for their private cloud, provide a Salesforce AppExchange security review, and assess their on-premises security infrastructures. A pen testing framework was created with the following goals:

1. Identify security vulnerabilities
2. Provide guidance for remediation
3. Ensure Salesforce app passes security review

Like all healthcare-involved organizations, the Client must meet strict requirements for risk management, privacy, and data security regulations, including HIPAA and CCPA.



RESULTS

PRIVATE CLOUD PEN TESTING

The Propelex Red Team performed private cloud penetration testing, to assess security for the Client's cloud infrastructures and resources. Appropriate permissions were secured prior to testing, the scope was pre-determined, and methodology was architected to ensure testing was performed in a way that was safe, effective, and complied with relevant cloud provider policies.

CLOUD PEN TESTING

Penetration testing was performed to assess security for the Client's cloud infrastructures and SaaS cloud resources, including AWS, Azure, and Office 365. Network access, virtualization, and compliance processes were evaluated in a way that was safe, effective, and complied with individual cloud provider policies.



Azure



Office 365

SALESFORCE SECURITY REVIEW

The Client's Salesforce app was tested and an assessment was made to determine if it would pass the required Salesforce AppExchange security review. Testing utilized threat-modeling profiles and tactics based on common web vulnerabilities, as well as outlier threats that are becoming more problematic. The review was tailored specifically to meet Salesforce's security review standards.

SECURE & COMPLIANT



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PHYSICAL PEN TESTING

Propelex evaluated security at Client data centers and sensitive facilities, using both a walk-through and a review of physical security controls and response processes. Special attention was focused on access control and authorization protocols.

SUCCESS STORY

Propelex stepped in to pick up the ball after solutions from the Client's previous service provider failed to meet expectations. They were excited to note much improved results, including a process that provided more visibility into their existing security frameworks.

Propelex generated a risk rating methodology that provided complete assessment of and insights into the following targets:

- Cloud testing revealed that the Client's wireless network was vulnerable to drive-by attacks. Several remediations were implemented for vulnerabilities that included S3 bucket misconfiguration, an open source app that could disclose API keys, and password attacks on cloud applications.
- The review of the Client's Salesforce app revealed a mobile network application authentication security issue. This vulnerability was relatively new and had evaded the Client's previous security provider. Remediation resolved the vulnerability and allowed the app to pass the Salesforce AppExchange security review.
- The physical access control review revealed that insufficient controls were applied to badges for employee access: the Client's existing badges could be easily replicated by potential attackers. Badges were upgraded to meet higher standards for security.



All pen testing actions, processes, and evidence were confirmed, documented and explained, and the Propelex Red Team provided step-by-step walkthroughs of each discovered vulnerability and accomplished exploit. All reporting was subjected to a quality assurance procedure, then securely issued to the Client for advance review. The formal penetration test report included recommendations for effective remediations, which were adopted.

Penetration testing by Propelex enabled the Client to recognize and resolve cloud vulnerabilities, pass a critical Salesforce AppExchange security review, and tighten physical security at their facilities. Regular testing is now part of their security process, and security is now part of a value growth solution, rather than simply a cost center.

APPROACH

Identify organization's exploitable security vulnerabilities through a systematic process. Understand overall health of your network, application, mobile, cloud & physical controls.

