SECURITY BRIGADE

Immunity for your IT

Case Study: Web-Application Security Assessment for a Private Sector Bank

Date: 23rd October 2013

Confidentiality Notice

About the Customer

Our Client with over 1,000 Branches, 3,000 ATMs and 10 Million Customers is one of the top 5 private sector banks in India.

The Challenge

One of our Client's key business goals was to provide its customers with a safe and secure online banking and payment portal. It was imperative for the Client to ensure that the website was not susceptible to technical or design flaws while providing a smooth banking experience to its customers.

Furthermore, since the online banking and payment portal had been developed by a third party organization, our Client wanted assurance that the website was secure and contained appropriate security controls.

The Solution

By using Security Brigade's unique in-house developed EDITE framework, the consultants completed Web-Application Security Assessment. Key highlights of the security assessment are as below:

1) Functional Mapping of the entire website with every detail about the URLs, parameters that are passed.
2) Test cases were created based on the various sections that were mapped.
3) Automated scans using various open-source and in-house developed scanners.
4) Test case verification by manually confirming each of the potential test cases identified above.
5) Vulnerability correlation

Once the first cycle of the engagement was completed and vulnerabilities were identified in the Client's website, the consultants leveraged the known vulnerabilities to further penetrate the Client's application architecture and identify the *True Impact* of the vulnerabilities.

The Deliverables

The reports and remediation information provided were customized to match the Client's operational environment and development framework. The following reports were submitted to the customer:

- **Executive Presentation:** Overview of the entire engagement, the vulnerabilities discovered and the recommendations made to mitigate the threats identified on the Client's websites.
- **Detailed Technical Report:** Comprehensive information, proof of concept examples and detailed exploitation instructions of all the threats identified.
- **Excel Tracker:** Simple and comprehensive vulnerability tracker aimed at helping the IT asset owner keep track of the vulnerabilities, remediation status, action items, etc.

The Benefits

By conducting thorough security tests and identifying vulnerabilities, Security Brigade reduced the Client's risk exposure in a climate where Banking Regulatory Bodies are taking an extremely strict approach to security.

Additionally, the Client gained the following benefits:

- **Risk Benefits:** Security Brigade minimized security risks by assessing the customer's infrastructure vulnerabilities and recommended solutions with proven methods to enhance security.

- **Cost Savings:** Security Brigade suggested cost-effective risk-mitigation measures based on the customer's business requirements that would ensure security and continuity of the business.
- **Customer Satisfaction:** Web-Application Security Assessment was conducted with minimum interruption and damage across customer systems to identify security vulnerabilities, impacts and potential risks.
- **Compliance:** As an added bonus, the Client was able to utilize the information gained from this Web-Application Security Assessment to easily gain industry certifications and provide a higher level of service to its customers.

SB SECURITY BRIGADE
Immunity for your IT

E-mail: contactus@securitybrigade.com

Phone:
Mumbai: +91-022-23532909
USA: +1-34799-ITSEC (48732)
Italy: +39-329-788-6447

Head Office: B-20, Everest Building, 156 Tardeo Road,
Mumbai – 400034
India

Branch Office: Via Magnolie
Pisa, Italy 56100