SB SECURITY BRIGADE
Immunity for your IT

Case Study: Source Code Audit for an Online Travel Company

Date: 23rd October 2013

Confidentiality Notice

This document contains information, which is proprietary to Security Brigade InfoSec Pvt. Ltd. and should be treated as strictly private & confidential. The recipient agrees to maintain this information in confidence and not reproduce or otherwise disclose this information to any person outside of the group directly responsible for the evaluation of its contents. Neither this document nor any copy of it may be taken or transmitted to anybody or distributed, directly or indirectly outside the organization.

About the Customer

Our Client with revenue over $ 124.72 million is a leading Online Travel booking company in India offering varied travel services and products to its customers.

The Challenge

Our client had decided to enter the mobile application arena by introducing a Blackberry application for its users to schedule and book manage travel itinerary. Their main concern was about its usability and security in terms of user account management and payment modules.

The Solution

By using Security Brigade's unique in-house developed EDITE framework, the consultants completed Source Code Audit. Key highlights of the audit are listed below:

1. Interaction with the development team to understand business requirements and data flow of the application.
2. Using automated tools, preliminary scans were performed on the source code to identify all the flaws as per OWASP top 10 and other industry recognized standards.
3. Based on the applications critical function, manual source code audit was performed to identify threats.
4. Assisting developers to fix the vulnerabilities identified during the course of the audit.

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 Report:** Overview of the entire engagement, the vulnerabilities discovered and the recommendations made to mitigate the threats identified on the Client's websites.
- **Technical Report:** Comprehensive information, proof of concept examples and detailed exploitation instructions of all the threats identified and remediation for the same.
- **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 reviewing the application at the source code level Security Brigade was able to assist the client in identifying critical vulnerabilities that would have resulted in serious financial impact on the client.

Additionally, the Client gained the following benefits:

- **Risk Benefits:** Security Brigade minimized security risks by assessing the customer's application vulnerabilities at source code level.
- **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.
- **Compliance:** At the end of the audit the client was complaint to various industry standards including PCI DSS.
- **Compliance:** As an added bonus, the Client was able to utilize the information gained from this test to easily gain industry certifications and provide a higher level of service to its customers.

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