

Case Study: External Penetration Test for a Private Sector Bank

Date: 23rd October 2013

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About the Customer

Our client with over 5,000+ branches, 6,000+ ATMs and 80+ million customers is one of the top 5 private sector banks in India and having 20000+ employees.

The Challenge

One of our Client's key business goals was to provide prudent and trustworthy banking services to its customers. 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

The Solution

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

1. Initial scoping of the network was conducted to map and identify the current network, sensitive assets, access points, existing security mechanisms etc.
2. Conducted penetration testing on the network devices and systems.
3. Exploit tests carried out, such as mail relay and DNS zone transfer.
4. Consultants leveraged the known vulnerabilities to further penetrate the Client's network and identify the True Impact of the vulnerabilities.
5. Technical, in depth list of issues discovered and recommendations on reducing the risk starting with the most critical.

The Reports

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

Our Penetration Test helped the bank to identify the potential threats / vulnerability that could have compromised their network and systems. We also assisted them in assessing the magnitude of potential business and operational impacts of successful attacks.

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:** Penetration testing 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 Penetration Test to easily gain industry certifications and provide a higher level of service to its customers.



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