



Security Assessment for the IT Infrastructure of a Large Bank in India

Client Profile

The client is among India's largest banks with total assets of over \$80 billion, offering a wide range of financial services and products to corporate and retail customers through a variety of channels, specialized subsidiaries and affiliates. It has a network of over 1,000 branches and over 3,000 ATMs in India and presence in more than 15 countries.

Client Context

The bank was embarking on a major Internet Banking initiative to service customers more efficiently and also stay tuned to market demands. Enabling internet access had significant implications on the bank's IT infrastructure, especially from a security standpoint. The bank had to fully prepare itself for possible security breaches and put in place a system that mitigated security related risks. This was critical from a business continuity angle.

The main challenge was to plug gaps in the perimeter security architecture. Hence, the bank wanted to conduct a vulnerability assessment of its Internet Banking application and the associated web and security infrastructure.

Microland Approach

Microland leveraged its standard Threat and Risk Assessment (TRA) methodology to carry out the vulnerability assessment exercise. The bank's Internet Banking Application and associated web and security infrastructure were assessed for vulnerabilities. Penetration testing (ethical hacking) was carried out on the perimeter devices, followed by a gap analysis. Based on the assessment, Microland provided recommendations to mitigate security risks. The bank's internal IT team implemented the recommendations.

To ensure infrastructure security, a post implementation audit of the devices and architecture is regularly conducted (every fortnight) to assess any vulnerability in the infrastructure.

Key Deliverables

- Asset Identification and Evaluation
- Vulnerability Assessment
- Penetration Testing
- Risk Mitigation
- Post Implementation Audit

Benefits

- Robust and secure internet banking application for maximizing business outcomes as a result of mitigation of security risks
- Proactive identification of vulnerabilities as a result of fortnightly assessment enabling increased control of risks
- Categorization of key assets which are business critical for increased security focus

Engagement Outcome

Based on the successful on-site implementation of the ISO 27001 standard, the company engaged Microland to provide them security advisory services on managing the surveillance audits by a certifying agency.