Increase your cyber security with Security Assessment Services

Uncover the cyber security vulnerabilities in your business—before cyber attacks do

Singtel

The importance of vulnerability assessments and penetrating testing

Armed with an increasingly sophisticated arsenal of tools, cybercriminals are constantly and rapidly evolving their cyber attacks to evade detection and exploit security vulnerabilities in businesses. That is why it has become of critical importance that organisations carry out regular vulnerability scans and penetration testing, which also assess the potency of vulnerabilities by exploiting them.

Vulnerability scans and penetration testing can:

- Determine critical weaknesses, loopholes and bugs in both the application and network layers

- Ensure that security controls are effective to justify security investments to executive management

- Prioritise vulnerabilities and address risks based on their exploitability

- Validate the effectiveness of security controls in an organisation

- Stress-test applications that are popular targets for attacks

Fortify your cyber defence with Security Assessment Services

Security Assessment Services is made up of two components: vulnerability assessment and penetration testing, which are conducted at the application layer—both web and mobile—and the network layer, which include operating systems and databases.

In particular, penetration testing goes one step beyond vulnerability assessments by delivering more in-depth evaluation, such as perimeter testing, database penetration testing, network security assessments and file integrity checking.

Vulnerability Assessments

These use intelligent security scanners to identify potential vulnerabilities, followed by a validation process to eliminate false positives. Vulnerabilities are rated based on severity and assessed for impact and probability.

Web Application

This assesses the web application security through a vulnerability scanner, with identified vulnerabilities validated manually. By leveraging a black-box approach, this is performed from the perspective of an unauthenticated user or attacker.

Mobile Application

This is done via a vulnerability scanner, accompanied by manual verification. By leveraging a black-box approach, assessments are performed from the perspective of an unauthenticated user or attacker.

Network Layer

This analyses the network and server environment, leverages relevant tools to identify vulnerabilities, with issues verified manually.

Penetration Testing

These uncover issues undetected by automated scanners, while determining the exploitability of vulnerabilities.

Web Application

Penetration testing is carried out in two ways: a grey-box approach where our team will access test user accounts, and a black-box approach in which assessments are performed from the perspective of an unauthenticated user or attacker.

Web application security is assessed manually and according to OWASP methodology. Results will deliver insights into how both authenticated and unauthenticated users can gain unauthorised access to your applications.

Mobile Application

The test will also be carried out via a grey-box or black-box approach, and is based on security recommendations by Google and Apple, the OWASP Mobile Security Testing Guide, and the OWASP Mobile App Security Checklist.

Network Layer

While vulnerabilities at the network are uncovered through a vulnerability scan, penetration testing identifies additional security weaknesses or chains of vulnerabilities that permit malicious actors to gain unauthorised access.

Assessment starts with methods similar to network vulnerability assessments, followed by manual tests to determine the effectiveness of security policies.

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