

Web Application Testing

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Making Your Digital Presence More Secure

Web application testing can determine if your web applications are targets for hackers due to application-layer vulnerabilities. Such vulnerabilities can escape detection by standard countermeasures and vulnerability scanners that often search and detect only known vulnerabilities in the operating system and web server and can overlook issues specific to web applications.

To properly analyze threats such as cross site scripting (XSS), input validation issues, SQL injection, and authentication hacks, a manual ethical hack from within the application is necessary. TraceSecurity Web Application Testing takes this approach to determine any weaknesses within your online application security profile that may expose sensitive information and ensures access is not improperly granted due to such vulnerabilities.

The Compliance Overview

In the increasingly internet-centric economy, an array of information security mandates ranging from PCI DSS to HIPAA are compelling data-driven organizations to take measures to identify vulnerabilities that could result in unauthorized disclosure, misuse, alteration, or destruction of confidential information, including Non-Public Personal Information (NPPI).

In order to ensure the security of an organization's external network, best practices state that each organization should perform an external penetration test in addition to regular security assessments. This includes any web-facing application that is exposed to risk.

TraceSecurity Web Application Testing Overview

Our application testing service determines the strength of your online application security profile and will identify application layer vulnerabilities that may expose sensitive information or allow access to be granted to unauthorized users.

Unlike other providers, our application testing methodology is applied almost entirely manually - rather than with the use of automated scanners. This allows TraceSecurity's expert analysts to find vulnerabilities beyond those found with automated scanning tools.

Our experts test online applications to identify weakness in:

- General architecture
- Transport security
- Logging
- System attacks
- Privacy concerns
- Session management
- Access control and authorization
- Data validation
- Perimeter manipulation
- Cryptographic algorithms

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They provide up-to-date security auditing for vulnerabilities such

- Software infrastructure/design weaknesses
- Authentication
- Session management
- Input validation attacks
- Cross site scripting attacks
- Script injection attacks
- CGI vulnerabilities
- Cookie theft
- User privilege elevation
- Web/application server insecurity
- Database vulnerabilities
- Privacy exposures
- Logical flaws

Testing Requirements:

- Brief training or educational introduction to the mechanics of the application
- Multiple test accounts or administrative access to create additional accounts

Results are provided in an extensive report containing:

- Immediate notification of critical risks
- Executive summary
- Business and technical risks/recommendations
- Application test methodology
- Application security issues listed by risk type and areas of concern
- Details and exposure of application vulnerabilities
- Enumeration of successfully penetrated systems
- Recommendations and counter measures
- Appendix examples
- Video and/or screen image records of the application test results are available options

Your Single Source for a Full Range of IT GRC Information Security Services

The complex and constantly evolving nature of IT GRC (governance, risk, and compliance) requires a range of experience and expertise that is nearly impossible for most companies to maintain internally. TraceSecurity's comprehensive suite of information security services is the answer. Our seasoned experts help enhance your security posture, reduce risk, facilitate compliance, and improve operational efficiency. To provide maximum effectiveness, the TraceSecurity information security services listed can be delivered in combination with TraceCSO, our cloud-based IT GRC management platform.

- Security Assessment
- Risk Assessment
- Executive Summary
- Penetration Testing
- Social Engineering
- Web Application Testing
- Wireless Assessment
- Security Training