



# APPLICATION PENETRATION TESTING

Web-based systems open many new avenues for access and therefore new vulnerabilities. Certain aspects of web applications make them particularly open to attack when compared to non-web systems. We work with your in-house teams to identify and mitigate risks before an attack occurs.

## Application Security Assessment

Web Application Testing includes attempts at exploiting identifiable vulnerabilities within applications or APIs. Foresite analysts will assess the site with respect to common vulnerability areas using information obtained in the Open Web Application Security Project (OWASP) top ten vulnerabilities.

### OWASP TOP 10



#### Injection

Flaws such as SQL, NoSQL, and LDAP injection, occur when untrusted data is sent to an interpreter as part of a common or query



#### Broken Authentication

Application functions related to authentication and session management are often implemented incorrectly



#### Sensitive Data Exposure

Sensitive data may be compromised without extra protection



#### XML External Entities (XXE)

Many older or poorly configured XML processors evaluate external entity references within XML documents



#### Broken Access Control

Restrictions on what authenticated users are allowed to do are often not properly enforced



#### Security Misconfiguration

A result of insecure default configurations, incomplete or ad hoc configurations, open cloud storage, etc



#### Cross - Site Scripting (XSS)

Flaws occur whenever an application includes untrusted data in a new web page without proper validation or escaping, etc



#### Insecure Deserialization

Often leads to remote code execution



#### Using Components with Known Vulnerabilities

Application and APIs using components with known vulnerabilities may undermine application defenses and enables various attacks and impacts



#### Insufficient Logging and Monitoring

Coupled with missing or ineffective integration with incident response, allows attackers to further attack systems, maintain persistence, pivot to more systems, and tamper, extract, or destroy data

#### World Headquarters :

7311 West 132nd Street, Suite 305  
Overland Park, KS 66213

#### CT Office :

1 Hartfield Blvd, Suite 300  
East Windsor, CT 06088

#### UK Office :

A8 Ively Road, Farnborough  
Hampshire, GU14 0LX UK

#### www.foresite.com

+44-800-358-4915  
+1-800-940-4699