Application security assessment

True, demonstrated vulnerabilities drive realistic, prioritized remediation

Modern applications require more than just penetration testing. Through comprehensive testing and assessment, Coalfire can identify vulnerabilities and issues that threaten the confidentiality, integrity, and availability of your applications. To deliver the breadth and depth you need, our application security assessments take the design, configuration, and distinct threats unique to your application's functionality and business logic into account throughout the entire engagement.

By combining a practical understanding of distinctive application context with commercial and open-source tools, techniques, and custom approaches, we determine potential ways an attacker can exploit an application by:

- Breaking or bypassing session management
- Bypassing authentication and authorization
- Escalating user privileges (horizontal and vertical)
- Gaining unauthorized access to sensitive or critical data
- Manipulating data present at runtime

Our application security assessment approach

To optimize the time spent assessing an application, we maximize test coverage by thoughtfully defining the scope at the onset of every engagement. Because not every application is easily scoped and not every organization can scope all their applications, our unmatched ability to scale provides strategic value through volume-based tiers.

- **Establish application context:** By taking the time to understand your application's intent and features, our consultants can discern between intended application behavior and potential flaws.

- **Perform baseline testing and attack surface analysis:** We deliver an extensive attack surface assessment from a dynamic, runtime perspective for web applications, web services (APIs), and thick clients with custom protocols. This enables us to cover risks inherent to the application's technology, implementation, common features, and obfuscation or hardening, as well as risks emergent from functional security and business logic.

- **Conduct targeted review and testing:** We review risks unique to your application's architecture, functional security, and features. Situational awareness throughout testing ensures we're prepared to investigate any low-hanging fruit that could potentially heighten a critical-attack scenario. Identified threats drive this activity, which may combine in-depth application assessment with penetration testing, depending on the best approach for the risks we uncover.

- **Report and debrief:** Your team will receive an executive summary and technical details that contain a unique description of each validated vulnerability, supporting screenshots and evidence, reproduction steps, severity and impact, and remediation or mitigation recommendations.

Why Coalfire

- We have built tools, scripts, and plugins that facilitate authentication to applications and APIs on the most typical cloud provider platforms – which automates common setup tasks and allows for a greater focus on assessing your application.

- Our AppSec consultants have experience in both software engineering and security consulting, which means we're able to deliver modern, actionable guidance on all aspects of application security.

- We conduct more than 1,000 complex projects each year for clients in the technology, healthcare, financial, manufacturing, energy, and retail industries.

- Our team comprises experienced testers of the world's largest cloud service providers, including Amazon, Google, IBM, Microsoft, Oracle, and Salesforce.

- For the past 10 years, we have trained and educated security professionals at Black Hat in the advanced tradecraft we developed.

Identify live vulnerabilities and issues that threaten modern and legacy applications.

Learn more about Coalfire's application security assessments.
Coalfire.com | 877-224-8077

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About Coalfire

The world's leading technology infrastructure providers, SaaS companies, and enterprises – including the top 5 cloud service providers and 8 of the top 10 SaaS businesses – rely on Coalfire to strengthen their security posture and secure their digital transformations. As the largest firm dedicated to cybersecurity, Coalfire delivers a comprehensive suite of advisory and managed services, spanning cyber strategy and risk, cloud security, threat and vulnerability management, application security, privacy, and compliance management. A proven leader in cybersecurity for the past 20 years, Coalfire combines extensive cloud expertise, advanced technology, and innovative approaches that fuel success. For more information, visit **Coalfire.com**.