



IAST

Checkmarx Interactive Application Security Testing

In today's competitive world, the name of the game is time to market. Organizations are under increasing pressure to continuously deliver new and improved software. To win the race, nothing can get in the way of rapid releases. This need for speed has often led organizations to leave security behind, resulting in increased risk and likelihood of successful attack. As awareness of the risk grows, organizations are increasingly seeking out security testing tools that support today's highly iterative release frequency.

Checkmarx IAST is a dynamic and continuous security testing solution that detects vulnerabilities on a running application by leveraging existing functional testing activities. Our IAST was specifically designed to fit agile, DevOps, and CI/CD processes. Unlike legacy Dynamic Application Security Testing (DAST) solutions, our IAST does not introduce any delays to the software development life cycle (SDLC).

Checkmarx IAST Unique Values:

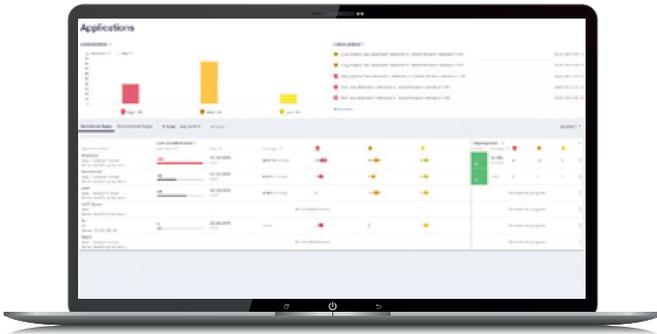
- > **API Security:** API discovery, usages, classification, authorization, and documentation for custom code, libraries, and frameworks.
- > **Service Flow:** Supports microservice-based applications. Checkmarx IAST presents, in runtime, the service flow of the microservices apps including the ability to drill-down and explore vulnerabilities across microservices.
- > **Ease of Customization:** Our IAST is the only IAST in the industry to offer custom query creation and tuning for optimized results.
- > **Developer-Oriented:** Unlike other IAST solutions, our IAST highlights the full source code of potential vulnerabilities to help developers quickly remediate the problem.
- > **Zero-Scan Time:** Leverages any functional testing, eliminating the need for separate security testing.
- > **Real-Time Feedback:** Provides results immediately upon detection.
- > **Analyzes the Entire Application:** Inspects custom code, libraries, frameworks, configuration files, and runtime data flow.
- > **Flexible Deployment Option:** On-premises in a private data center (either traditional installer or dockerized) or hosted in a private tenant in AWS.
- > **Checkmarx SCA Integration:** Our IAST integrates smoothly with Checkmarx SCA, automatically triggering SCA scans and displaying 3rd parties vulnerabilities when running an IAST scan.

Visualize Your APIs to Improve Security

Checkmarx IAST is the only product to cover OWASP Top10 API Security vulnerabilities. It discovers all your APIs, including usage count, authorization, classification, and documentation.

Optimize Your Remediation Efforts at Scale

Checkmarx IAST is the only IAST product in the market that is fully integrated with our best-in-breed SAST solution. Data and results are correlated across the two products, enabling more rapid remediation than a stand-alone IAST product. The code-level insight produced by our SAST, combined with the run-time knowledge coming from our IAST, provides developers with a better understanding of where to fix the problem.



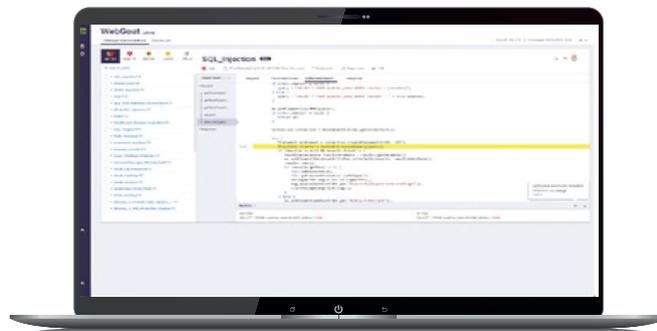
Checkmarx IAST extends our AST solutions to provide results correlation, greater vulnerability coverage, and more intelligent remediation, ultimately improving time to market without compromising security.

Automate Security Testing Using Your Existing Processes

Checkmarx IAST relieves organizations from having to carry out dedicated security testing on running applications. A non-intrusive agent is transparently orchestrated into a running application within the testing environment to continuously monitor and collect application activity. Once functional testing is over, the security “scan” is also completed.

Deliver Security as Fast as Applications Change

Checkmarx IAST is built for DevOps, seamlessly fitting QA automation or CI/CD pipelines. The detection of vulnerabilities on running applications is automated to support application portfolios of virtually any size.



Complete Your AppSec Testing Portfolio

Checkmarx IAST fills a critical layer in your application security portfolio. While static code analysis and software composition analysis ensure that you have scanned all custom code and third-party open source libraries, there are still certain flaws that can only be detected on a running application. Our IAST seals your SDLC with a security “stamp” without interrupting your existing DevOps and CI/CD workflows.

Supported Languages



Vulnerability Coverage

Checkmarx IAST detects input related and application vulnerabilities, including the OWASP Top Ten and more.

- > SQL Injection
- > XSS Injection
- > OS Command Injection
- > Path Traversal
- > XPath Injection
- > Parameter Tampering
- > Open Redirect
- > Trust Boundary Violation
- > Cross-Site Request Forgery
- > Sensitive Data Leakage