

Solution Brief

Why Checkmarx?



With software everywhere, everything becomes an attack surface. And while “everything” certainly sounds daunting, don’t panic, we’ve got your back.

In today’s app security landscape, we know how important it is to you and your customers to protect data and avoid disrupting functionality and services. Despite software’s complexity, time to market remains critical and unyielding. Faced with increasing pressure to meet aggressive delivery deadlines, many organizations have pivoted to modern agile development methodologies without implementing proper DevSecOps practices. Bad actors have taken notice.

Recent studies show that **80% of all applications contain vulnerabilities, and 30% of successful attacks take place at the application layer. We call that a red flag.**

Enter Checkmarx: Industry-Leading Application Security Testing

This is where we come in. We’ve built our business on a suite of products that enable you to succeed securely without slowing you or your developers down. We provide:

- ✓ Automated security scans running early and often in the software development lifecycle (SDLC) to catch and remediate vulnerabilities before they reach production.
- ✓ Intelligent remediation guidance so developers can resolve risks quickly and easily.
- ✓ Risk severity scores to help your teams prioritize remediation.
- ✓ Developer training so your devs can learn to code securely in the first place.

Adopting these Application Security components into every stage of your SDLC is critically important. So is training your developers to seamlessly integrate them across all of their processes, from un-compiled code to runtime testing. We make it easy and fun, boosting both application security and development efficiency.

Finding the Right Solution for DevSecOps

You need security solutions that work for your developers, security teams, and DevOps procedures by solving for:

- ✓ **Developer Adoption:** If developers aren’t adopting security solutions, they won’t leverage tools to ensure efficacy and ROI (return on investment). Basically, “if dev teams don’t use it, security teams lose it.”
- ✓ **Resolving Code Vulnerabilities:** WAFs and other post-code production solutions don’t resolve insecure code, nor are they scalable. Organizations need to eliminate this problem at its source.
- ✓ **Decelerating DevOps:** If solutions don’t span the entire SDLC and fail to catch vulnerabilities earlier in the lifecycle, companies run the risk of slowing DevOps down.
- ✓ **Human Error:** Pen testing also needs to be paired with security solutions earlier in the SDLC because it’s only as good as the person testing the code. And without proper training, development teams will continue to commit the same vulnerable code and won’t know how to remediate vulnerabilities, no matter how they’re discovered.
- ✓ **“Check the Box” Security:** Deploying a sub-par security solution leaves companies and development teams open to massive exposure. Here, “checking the box” is definitely not the right call.

Application Security Testing plus Developer Education Solutions

Checkmarx makes software security an essential infrastructure that, alongside developer education, reduces the number of security vulnerabilities found within the applications that your organization uses and deploys, minimizing your attack surface. Unified with DevOps methodologies and seamlessly embedded into your entire CI/CD pipeline, our holistic AST platform sets the new standard for instilling security across modern development -- from uncompiled code to runtime testing.

With Checkmarx, Your Organization Gets:


Security from the Start: The industry's most comprehensive unified software security platform, tightly integrating SAST (Static Application Security Testing), SCA (Software Composition Analysis), IAST (Interactive Application Security Testing), KICS (Keeping Infrastructure as Code Secure) and AppSec Awareness to embed software security throughout the CI/CD pipeline and reduce software exposure.


Automated Security Scanning: Integrated into the DevSecOps process to accelerate DevOps and get applications to production quickly and securely without interrupting or adding friction to developer workflows.


Just-in-Time Learning for Developers: Snackable, relevant training that seamlessly integrates into developer workflows, teaching them how to code securely at the exact moment scan results show specific vulnerabilities.


Unmatched DevSecOps Expertise: Our first-in-class research team, developer-centered approach, unparalleled professional services and support, and continued industry leadership has cemented Checkmarx's continued popularity with developers around the world. CxSAST: Highly accurate and flexible, CxSAST automatically scans uncompiled source code enabling organizations to identify hundreds of potential security vulnerabilities in the most common coding languages and frameworks.


Checkmarx AST: A Unified Platform Portfolio

 **CxSAST:** Highly accurate and flexible, CxSAST automatically scans uncompiled source code enabling organizations to identify hundreds of potential security vulnerabilities in the most common coding languages and frameworks.

 **CxSCA:** Performs composition analysis and enforces open source security policies as part of software development by ensuring vulnerable components and libraries are removed or replaced, while meeting relevant license requirements.

 **CxIAST:** Detects vulnerabilities and runtime risks during functional testing, seamlessly fitting QA automation or CI/CD pipelines while providing advanced vulnerability detection with zero impact on testing cycles.

 **CxCodebashing:** An AppSec awareness and training platform providing interactive, gamified, secure coding education to sharpen the skills developers need to avoid security issues, fix vulnerabilities, and write more secure, better quality code.

 **KiCS:** A free, open source engine used to analyze Infrastructure as Code (IaC) to detect security vulnerabilities, compliance issues, and infrastructure misconfigurations early in the development cycle, helping to protect IaC from compromise.

Checkmarx

Checkmarx is constantly pushing the boundaries of Application Security Testing to make security seamless and simple for the world's developers while giving CISOs the confidence and control they need. As the AppSec testing leader, we provide the industry's most comprehensive solutions, giving development and security teams unparalleled accuracy, coverage, visibility, and guidance to reduce risk across all components of modern software – including proprietary code, open source, APIs, and Infrastructure as code. Over 1,600 customers, including half of the Fortune 50, trust our security technology, expert research, and global services to securely optimize development at speed and scale. For more information, visit our [website](#), check out our [blog](#), or follow us on [LinkedIn](#).