Checkmarx One

Enterprise Application Security Platform

A Unified, Enterprise AppSec Platform

The modern enterprise runs on applications. Your job is to secure them. But this is increasingly challenging. The move from monolithic code bases to highly complex microservices architectures has resulted in billions of lines of constantly changing code to secure. This is accompanied by a massive increase in developers and distributed teams to train and partner with.

And your business' revenue depends on your success. In a recent Checkmarx survey of 200 CISOs, 77% of respondents said that **over half of their organization's revenue comes from applications that they're responsible for securing.**

Those are high stakes. To ensure the success of your AppSec program you need a unified, enterprise-ready AppSec platform that will provide integrated, correlated results to help your teams prioritize security efforts. It must support a world-class developer experience capable of meeting developers where they are and equipping them with the tools and knowledge they need to succeed.

Your business needs results. And settling for good enough is not enough. Checkmarx can help.

Get More Out of AppSec Consolidation

Checkmarx One delivers a full suite of enterprise AppSec solutions in a unified, cloud-native platform. It quickly delivers accurate, cross-tool results and augments them with remediation guidance plus just-in-time training. Checkmarx One consolidates your AppSec toolset to reduce TCO (by up to 50%), simplify vendor management, and provide you with a single log-in and single pane of glass for all your AppSec solutions. But for an AppSec platform, these should all be table-stakes. Checkmarx One also gives you more.

Manually correlating data from across AppSec solutions is painful. Checkmarx One helps by providing capabilities to integrate and correlate data from separate solutions to help you identify what vulnerabilities are exploitable. This makes it easier to analyze and triage vulnerabilities across your entire application footprint. Checkmarx One has all the solutions you need for cloud-native application security, embedding AppSec in every stage of the SDLC and supporting a comprehensive AppSec program.

Cloud-Native Application Security

Checkmarx believes that cloud-native application security must start from the very first line of code. Our industry leading Checkmarx One platform offers all the capabilities you need to secure every stage of the SDLC, correlate security findings, and then prioritize remediation for developers to make the biggest business impact.

Insights	Unifed Dashboard & Reporting	Cloud Insights	AI-Powered

Insights
- Unifed Dashboard & Reporting
- Cloud Insights

Posture
- Application Security Posture Management (ASPM)

Code
- SAST
- API Security
- DAST

Supply Chain
- SCA
- SBOM
- Malicious Package
- Repo Health
- Secrets Detection
- AI Security

Cloud
- Container Security
- IaC Security

Partners
- Cloud Security
- Runtime Protection

AI-Powered
- ChatGPT
- GitHub Copilot
- Query Builder
- Auto-Remediation
- Leakage Protection

Dev Enablement
- Codebashing
- AI Security Champion

DevSecOps
- 75+ Technologies and Languages, 100+ Frameworks
- SDLC Integrations

Secure Your Applications From Code to Cloud With a
Consolidated Application Security Platform

The software development lifecycle itself is now your attack surface. No matter where you are in your AppSec journey, Checkmarx has you covered from code to cloud with a full suite of application security tools.

Train	Design	Code	Build	Test	Deploy	Go-Live
Secure code training Upskills developers	**API security** Scans documentation, identifies shadow APIs	**SAST** Finds vulnerabilities in code	**SCA** Finds vulnerabilities in open source software	**DAST** Tests compiled apps for vulnerabilities	**Container security** Scans container images	**CNAPP partners** Brings runtime insights for correlation
	Threat modeling Secures by design	**Secrets detection** Finds secrets leakage in collaboration tools	**Malicious package** Finds malicious code in open source		**IaC security** Finds issues and misconfigurations	

Checkmarx
AppSec Solutions

↘ Static Application Security Testing (SAST)

Conduct fast, accurate scans to identify risk in your custom code. Seamlessly switch from deep scans of critical apps, to quick and wide scans where appropriate. Have the flexibility you need, when you need it.

↘ Software Composition Analysis (SCA)

Identify security and license risks in open source software used in your applications. Exploitable Path helps identify which vulnerabilities are actually exploitable to cut through the noise and better prioritize what to fix.

↘ Supply Chain Security (SCS)

Proactively identify supply chain attacks and secure developer environments with open-source vulnerability and malicious package detection, SBOMs, Project Scorecard, and secrets detection in your code and development sources.

↘ API Security

Discover every API in your application and compare the full API inventory against your API documentation to help you eliminate shadow and zombie APIs and mitigate API-specific risks.

↘ Dynamic Application Security Testing (DAST)

Identify vulnerabilities only seen in production and assess their behavior by testing against a broad range of web application attacks.

↘ Container Security

Scan static container images, check configurations, and determine what open source packages are called and identify vulnerabilities pre-production.

↘ Infrastructure-as-Code (IaC) Security

Scan your IaC files to find security vulnerabilities, compliance issues, and infrastructure misconfigurations, using thousands of predefined queries.

↘ Cloud and Runtime Insights

Extend AppSec into production through Checkmarx technology and partnerships. Get runtime insights directly from your cloud service provider or through our cloud technology partnerships to correlate insights with identified open source vulnerabilities to protect containers while apps are running.

↘ Codebashing

Train developers on secure coding practices, with personalized learning paths to reduce application security risk from the very first line of code.
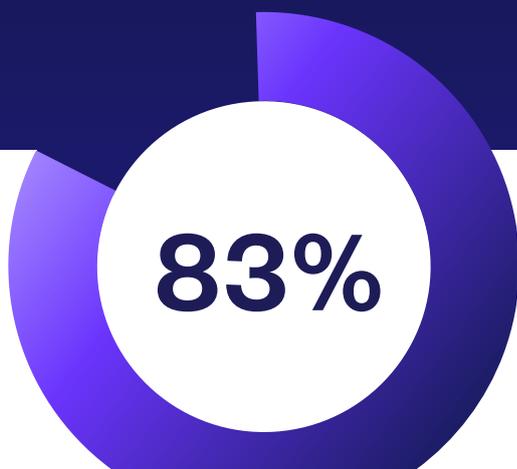
83% of Checkmarx scans are **multi-engine**

Application Security Posture Management (ASPM)
for Correlation and Prioritization:

The Power of the Platform

Checkmarx ASPM helps AppSec teams get more out of their toolset to better manage their increasingly difficult roles. As more companies embrace a shift everywhere mentality, they have continued to purchase more AppSec tools that place security controls across the SDLC. But the increase in tools hasn't equated to an increase in time or other resources. AppSec teams now have too many disparate security products, tools, and controls that they need to deploy and manage, and not enough staff or resources to manage them effectively.

Checkmarx ASPM enables the correlation of results across individual AppSec tools so that you can easily prioritize remediation for the most important vulnerabilities and maximize use of your team's resources.

Key ASPM Features and Use Cases

Identify Your Riskiest Apps

Application Risk Management allows you to view the security posture of your entire application portfolio and footprint. It aggregates data from multiple AppSec tools and provides a comprehensive risk score for each scanned application, so you can quickly see what needs to be prioritized.

Discover Shadow APIs

Undocumented APIs, or shadow APIs, are easy access points for attackers. With Checkmarx, SAST and DAST work together to discover your applications' shadow APIs.

Focus on What's Exploitable

Exploitable Path evaluates vulnerabilities in open source libraries and analyzes whether they are actually called by your application's code. If they are not called, they are not exploitable. By weeding these out, ASPM can reduce AST noise by 40%.

Correlate Cloud and Runtime Protection

Runtime Insights gives you the full picture of your container once an application is in use, identifying what is and is not being called by your application. This connects the dots between pre-production and deployment, giving your team clear visibility into workloads that are running in production. This can help reduce vulnerability noise up to 95%.

AppSec Program's Developer Experience

AppSec is not just about identifying vulnerabilities - it's about fixing them, too. To fully secure applications, collaboration between AppSec teams, who identify security weaknesses, and developers, who fix them, is crucial. Addressing application security requires a holistic approach that bridges the gap between these essential players, and the road to success is through the developers themselves. Any AppSec effort relies on the buy-in from and participation of developers. To get buy-in, you need trust.

Successful AppSec leaders recognize the importance of putting the developer experience at the center of their program – and Checkmarx One is designed with this in mind.

There are three pillars through which every organization must think about the elements of a strong developer experience:

Building #DevSecTrust
Through Developer Experience

☑

Meet Developers Where They Live

Seamlessly integrate AppSec into developers' ecosystem and workflow to make it easier for them to fix vulnerabilities without slowing them down.

☑
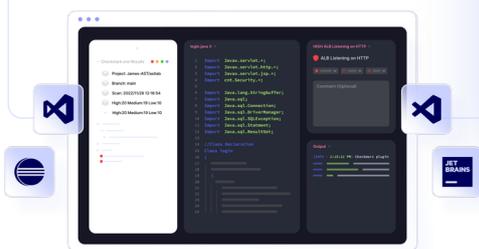
Prioritize the Greatest Impact

For AppSec teams, these are the vulnerabilities that represent the biggest risk. But for developers, it's where they can make the greatest impact.

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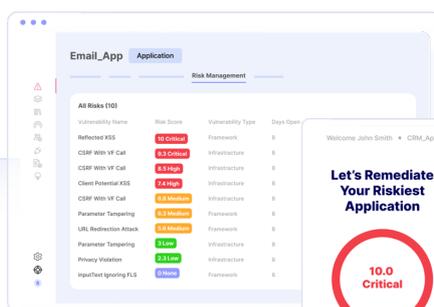
Equip Them With Tools and Knowledge

Make it easier for developers to fix vulnerabilities faster, while helping them learn and grow into your next security champions.
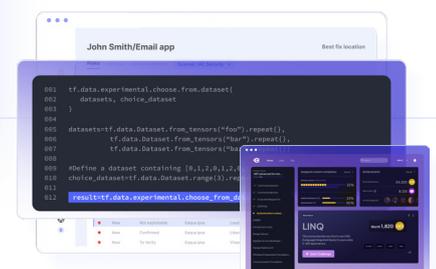
Key Features

SCM Integrations With Pull Request (PR) Decoration

Integrate directly with the repo to scan uncompiled code as early as check-in. Set triggers for scans based on events such as the PR, shifting further left while staying within developers preferred workflow.

IDE Integration

Import scan results directly into any IDE to maintain developer workflow. Automatically direct developers to the line of vulnerable code, provide remediation guidance, and links to Codebashing; giving developers the information they need without leaving their environment.

Feedback Tool Integration

Treat your vulnerabilities like any bug. Checkmarx One auto-creates tickets, auto-assigns to developers, and auto-closes them when tickets are resolved. Vulnerability information, remediation guidance, and knowledge links are all automatically populated in each ticket.

AI Security Champion

Leverage secure GenAI capabilities to help developers remediate vulnerabilities more quickly and easily.

Best-Fix Location (BFL)

Automatically guide developers to the line of code from which to best fix a vulnerability. Using BFL often results in resolving multiple vulnerabilities with one action, saving developers time and effort.

1600x increase

in vulnerabilities remediated by a Fortune 500 company

Q4

Q3

Q2

Q1

Q3 | Q4 | Q1 | Q2 | Q3 | Q4

2021 | 2022 | 2023

Building the
AI-Powered AppSec Platform of the Future

The rapid rise of Generative AI (GenAI) has provided an interlocking set of challenges and opportunities for Application Security teams. Challenges include security concerns around how end users use AI, how developers use AI to change their workflows and write code, and how malicious actors use GenAI both to create attacks and as a vector for attacks. The opportunities revolve around speed and productivity gains for both developers and AppSec teams, and new exciting end user experiences.

Checkmarx recognizes the significance of addressing these issues head-on, and is building the AI-powered AppSec platform of the future.

Key CheckAI Features

↘ **AI Security Champion**

Use Checkmarx' GenAI to suggest remediation steps for identified vulnerabilities, reducing time to identify and fix security flaws.

↘ **Query Builder for SAST and IaC**

GenAI-guided assistance for your AppSec Team to write queries quickly and efficiently for our SAST and IaC products, helping your team tailor your AppSec solutions to your applications, while saving time and effort along the way.

↘ **AI Code Generation Tool Integrations**

Embed Checkmarx vulnerability detection directly into generative AI instances, automatically scanning generated code within the client and saving your developers time and effort.

Accelerate Time to
Value With Services – Your Partners in AppSec

AppSec teams are increasingly asked to do more with less. Checkmarx can help. Checkmarx offers comprehensive professional services to help you build, refine, and manage your AppSec program. No matter what stage of development your program is in. Checkmarx has the expertise in both the technology and business of AppSec that you need to be successful.

Key Checkmarx Services

↘ **AppSec Program Methodology & Assessment (APMA) Framework**

Build your ideal AppSec program from scratch or improve what you've got. Either way, start with Checkmarx' APMA Framework. Our APMA team of experts will analyze your current state and recommend actionable steps to improve.

↘ **Premium Support**

Accelerate program deployment and adoption with Checkmarx Premium Support packages. Get deeper tech support as well as adoption and integration consulting to increase program ROI.

↘ **Checkmarx Optimizer**

Increase developer adoption and focus developers on exploitable vulnerabilities through scan optimization, triage, and false positive removal. Checkmarx can help your teams better prioritize results for maximum business impact.

↘ **AppSec Accelerator**

We are a turnkey AppSec service. Our managed services team will help set up your program and run it, from configuration and integration to threat modeling, change management, and scanning optimization. We can also plug our AppSec engineers into your existing team to cover gaps in knowledge, skills, or time.

Customize Checkmarx One to Fit Your SDLC

Checkmarx understands that while the steps in the SDLC are the same everywhere, how each company approaches it from a technology and process standpoint is different. In the end, you need an AppSec platform that works the way you do. That's why Checkmarx focuses on integrating with all the tools, both new and legacy, that you and your developers use to do your jobs:

CI/CD

Automate scanning as part of your CI/CD Pipeline

- AWS CodeBuild
- GitLab CI/CD
- Azure DevOps
- Jenkins

+ And more
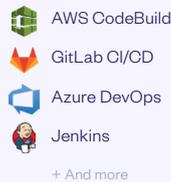
Development Frameworks

Support your development teams in how they work together with support for 100+ development frameworks

- ASP.NET Core
- jQuery
- Struts
- Ruby on Rails

+ And more
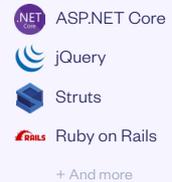
Feedback Tools

Put vulnerabilities in the context and workflow of the developers themselves

- JIRA
- Slack
- Teams
- GitHub Issues

+ And more
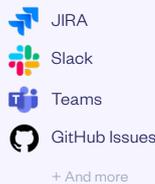
IDE

Enable developers to review and fix vulnerabilities in their preferred IDE

- Visual Studio Code
- JetBrains
- Visual Studio
- Eclipse

+ And more
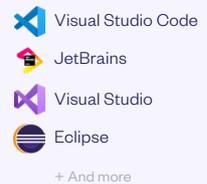
Programming Languages

Keep up with the latest programming languages, with out-of-the-box support for 50+ languages

- PHP
- Python
- C#
- C++

+ And more
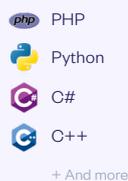
SCM Integrations

Automate scanning as code is checked in, enabling your team to shift further left

- GitHub
- GitLab
- Azure DevOps
- BitBucket

+ And more
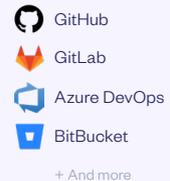
The Bottom Line

Checkmarx One is the essential enterprise AppSec platform. With an ever-evolving set of correlation and prioritization features, Checkmarx One helps consolidate your expanding list of AppSec tools, and helps you make sense of the results. Designed to better engage your development teams, Checkmarx One will also help you build the trust needed to ensure the success of your AppSec program investment.

To Learn More About Checkmarx One

Request a Demo ↗