Repository Health

Maximize your application security posture by continuously ensuring that your source code repositories are implementing security and quality best practices.

Industry Challenge

Modern code repositories store application source code, CI/CD configurations, IaC files and other sensitive data. Analysts predict that 45% of organizations will have experienced a software supply chain attack by this year; poorly managed internal code repos are a weak point in an organization's software supply chain security posture.

Because large enterprises typically maintain thousands of repos, it is impossible to manually track how well each of them is configured, maintained, and secured. An automated solution is needed to continuously determine the security and quality health of internal code repos.

Without repo health monitoring, repositories are at risk of unauthorized code changes, dangerous or low-quality code, regulatory non-compliance, and other security threats.

Evaluate Your Repositories

Checkmarx' Repository Health helps you maximize the security posture of your applications by automatically and continuously tracking the security and quality practices applied to your code repositories. Each repo is evaluated on its security policies and best practices, including:

- ↘ Code review before merge
- ↘ Branch protection
- ↘ Pinned dependencies
- ↘ Dependencies actively maintained
- ↘ Presence of executable (binary) artifacts
- ↘ Fuzzing required
- ↘ Presence of a detailed security policy
- ↘ CI pipeline tests
- ↘ Dangerous GitHub Action workflows
- ↘ Signed releases
- ↘ Secure packaging

Key Benefits

↘ **Maximize Application Security Posture**

Ongoing comprehensive visibility into the security health of all code repositories closes a critical gap in software supply chain security.

↘ **Efficient Holistic Risk Prioritization**

Identifying and prioritizing high-risk areas across the software supply chain allows developers and security teams to focus their efforts on the most critical security issues.

↘ **Enhanced Transparency & Communication**

Having unified assessments of the security posture of code repositories improves transparency, communication , and collaboration among stakeholders.

Key Features

Use Checkmarx Repository Health to comprehensively and continuously assess the riskiness of all the code repositories used in your applications.

↘ Continuous Repo Health Tracking

Monitor the health of all repositories included in your applications based on factors including security practices, testing practices, dependency management, CI/CD best practices, and project maintenance.

↘ Automatic SCM-Triggered Scans

Integration with SCM platforms enables scans to run automatically upon repository updates, ensuring up-to-date repo health assessments with no manual effort.

↘ Flexible On-Demand Scanning Options

In addition to automatic SCM-triggered scans, developers and security teams can manually run repo health scans at any time via API, CLI, or the Checkmarx One UI.
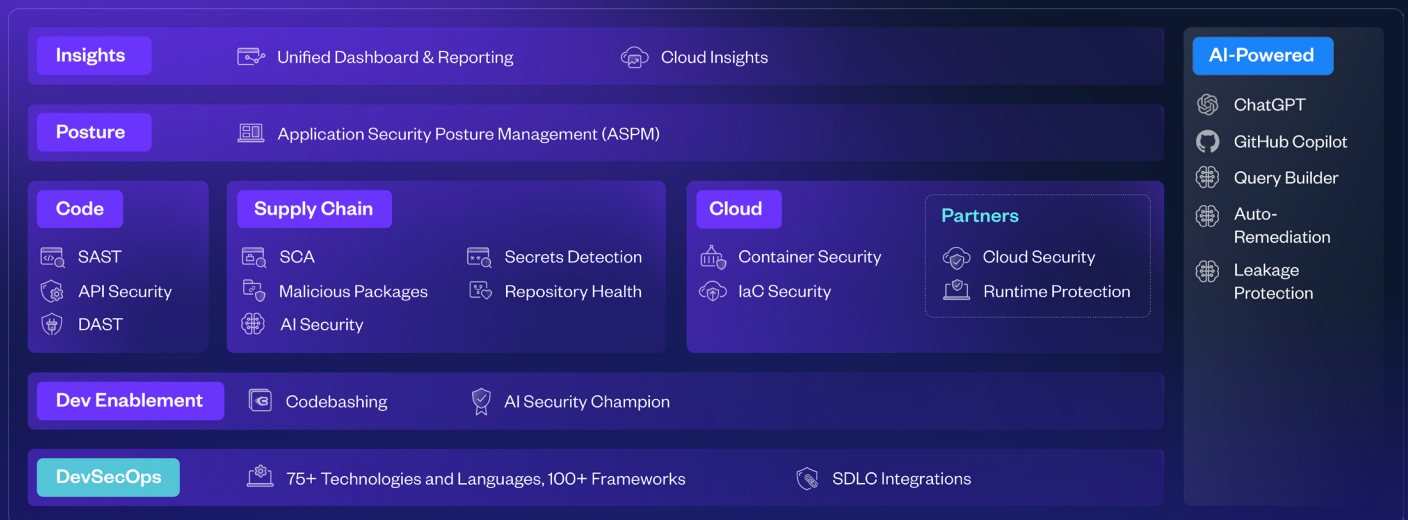
↘ Unified Risk Reporting

Repository health evaluations are included in Checkmarx One reports, providing visibility into – and efficient prioritization of – security vulnerabilities, code quality issues, and repository health risks, all in one place.

Part of a Complete AppSec Solution

Repository Health is offered as part of the Checkmarx One platform. Checkmarx One provides a unified, enterprise-scale AppSec platform with everything you need to secure your applications, from code to cloud. You can take advantage of the capabilities you're ready to use today, while remaining poised to address your needs of tomorrow.

Checkmarx One

Insights	Unified Dashboard & Reporting	Cloud Insights

Posture	Application Security Posture Management (ASPM)

Code
- SAST
- API Security
- DAST

Supply Chain
- SCA
- Malicious Packages
- AI Security
- Secrets Detection
- Repository Health

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

Checkmarx

Checkmarx helps the world's largest enterprises get ahead of application risk without slowing down development. We end the guesswork by identifying the most critical issues to fix and give AppSec the tools they need, all while letting developers work the way they want. From DevSecOps to developer experience, security and development teams can now work better together. That's why 1700+ customers rely on Checkmarx to scan over 1 trillion lines of code annually, improve developer productivity by 50%, and deliver 2X AppSec ROI.

Checkmarx. Always Ready To Run.