

# SonarQube vs GitLab

GitLab compared to other DevOps tools

SonarQube is an open source tool for continuous inspection of code quality using static **software composition analysis** to detect bugs, code smells, and security vulnerabilities on 20+ programming languages. SonarQube offers reports on duplicated code, coding standards, unit tests, code coverage, code complexity, comments, bugs, and security vulnerabilities.

GitLab Ultimate automatically includes broad security scanning with every code commit including Static and Dynamic Application Security Testing, along with dependency scanning, container scanning, and license management.™

## FEATURES

sonarqube 



### Static Application Security Testing

GitLab allows easily running Static Application Security Testing (SAST) in CI/CD pipelines; checking for vulnerable source code or well known security bugs in the libraries that are included by the application. Results are then shown in the Merge Request and in the Pipeline view. This feature is available as part of [Auto DevOps](https://docs.gitlab.com/ee/topics/autodevops/#auto-sast) to provide security-by-default.



[Learn more about Static Application Security Testing](#)

### Dependency Scanning

GitLab automatically detects well known security bugs in the libraries that are included by the application, protecting your application from vulnerabilities that affect dependencies that are used dynamically. Results are then shown in the Merge Request and in the Pipeline view. This feature is available as part of [Auto DevOps](https://docs.gitlab.com/ee/topics/autodevops/#auto-dependency-scanning) to provide security-by-default.



[Learn more about Dependency Scanning](#)

### Container Scanning

When building a Docker image for your application, GitLab can run a security scan to ensure it does not have any known vulnerability in the environment where your code is shipped. Results are then shown in the Merge Request and in the Pipeline view. This feature is available as part of [Auto DevOps](https://docs.gitlab.com/ee/topics/autodevops/#auto-container-scanning) to provide security-by-default.



[Learn more about container scanning](#)

## Dynamic Application Security Testing

Once your application is online, GitLab allows running Dynamic Application Security Testing (DAST) in CI/CD pipelines; your application will be scanned to ensure threats like XSS or broken authentication flaws are not affecting it. Results are then shown in the Merge Request and in the Pipeline view. This feature is available as part of [Auto DevOps] (<https://docs.gitlab.com/ee/topics/autodevops/#auto-sast>) to provide security-by-default.



[Learn more about application security for containers](#)

---

## Interactive Application Security Testing

[IAST]([https://blogs.gartner.com/neil\\_macdonald/2012/01/30/interactive-application-security-testing/](https://blogs.gartner.com/neil_macdonald/2012/01/30/interactive-application-security-testing/)) combines elements of static and dynamic application security testing methods to improve the overall quality of the results. IAST typically uses an agent to instrument the application to monitor library calls and more. GitLab does not yet offer this feature.



## Runtime Application Security Testing

RASP uses an agent to instrument the application to monitor library calls as the application is running in production. Unlike other security tools, RASP can take action to block threats in real-time, similar to a Web Application Firewall but from within the app's runtime environment rather than at the network layer. GitLab does not yet offer this feature.



## License Management

Check that licenses of your dependencies are compatible with your application, and approve or blacklist them. Results are then shown in the Merge Request and in the Pipeline view.



[Learn more about License Management](#)