

SAST VS DAST VS SCA

Which Security Testing
Methodology is Right for You?





DAST

Dynamic Application Security Testing

SCA

Software Composition Analysis

What is it?

SAST

DAS.

SC

Analyzes the source code for potential security vulnerabilities without running the application.

Simulates an attack on the running application to find vulnerabilities.

Analyzes third-party software used in an application to identify security vulnerabilities and licensing compliance issues.

When to use

SAST

During development.

DAST

Post-development, during testing or production.

SCF

During development and throughout the software development life cycle.

Advantages

SAST

Able to find security issues before application deployment. Easy integration with development toolchain.

DAST

Identifies vulnerabilities in the running applications.

SCA

Identifies vulnerable third-party software.

- Generates a high number of false positives.
- Not suitable for identifying runtime issues or vulnerabilities that arise during the execution.

- May miss some vulnerabilities.
- Can generate false positives.
- Slows down the application during testing.

- Does not identify issues inside the code.
- Limited scope around third-party software.

Cost

SASI

Moderate to high.

DAST

Moderate to high.

SCF

Low to moderate.



Examples of tools

SAST

SonarQube, Veracode, Checkmarx, Fortify

DAST

IBM AppScan, HP WebInspect, Acunetix, Qualys Web Application Scanning

SCF

Whitesource, Snyk, Black Duck, OpenHub, Sonatype Nexus Lifecycle

- Detecting common coding errors.
- Finding vulnerabilities within your codebase.
- Ensuring code adherence to security standards.

- Identifying vulnerabilities in web applications, web services, and APIs.
- Simulating real-world attacks.

- Promoting license and policy compliance.
- Identifying open-source component risks.
- Protecting against supply chain attacks.
- Checking dependencies for vulnerabilities.

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Link in the description





Making Product Security Accessible to Everyone