

- Secrets
- ABAP
- Apex
- C
- C++
- CloudFormation
- COBOL
- C#
- CSS
- Flex
- Go
- HTML
- Java**
- JavaScript
- Kotlin
- Objective C
- PHP
- PL/I
- PL/SQL
- Python
- RPG
- Ruby
- Scala
- Swift
- Terraform
- Text
- TypeScript
- T-SQL
- VB.NET
- VB6
- XML



Java static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your JAVA code

- All rules** 632
- Vulnerability 53
- Bug 154
- Security Hotspot 36
- Code Smell 389
- Quick Fix 42

Tags ▾

Search by name... 🔍

vulnerability

Endpoints should not be vulnerable to reflected cross-site scripting (XSS) attacks

Vulnerability

Database queries should not be vulnerable to injection attacks

Vulnerability

XML parsers should not be vulnerable to XXE attacks

Vulnerability

A secure password should be used when connecting to a database

Vulnerability

XPath expressions should not be vulnerable to injection attacks

Vulnerability

I/O function calls should not be vulnerable to path injection attacks

Vulnerability

LDAP queries should not be vulnerable to injection attacks

Vulnerability

OS commands should not be vulnerable to command injection attacks

Vulnerability

"@SpringBootApplication" and "@ComponentScan" should not be used in the default package

Bug

"@Controller" classes that use "@SessionAttributes" must call "setComplete" on their "SessionStatus" objects

Bug

"wait" should not be called when

Dynamic code execution should not be vulnerable to injection attacks

Analyze your code

Vulnerability Blocker injection cwe owasp sans-top25

Applications that execute code dynamically should neutralize any externally-provided values used to construct the code. Failure to do so could allow an attacker to execute arbitrary code. This could enable a wide range of serious attacks like accessing/modifying sensitive information or gain full system access.

The mitigation strategy should be based on whitelisting of allowed values or casting to safe types.

Noncompliant Code Example

```
protected void doGet(HttpServletRequest req, HttpServletResponse
String input = req.getParameter("input");

ScriptEngineManager manager = new ScriptEngineManager();
ScriptEngine engine = manager.getEngineByName("JavaScript"
engine.eval(input); // Noncompliant
}
```

Compliant Solution

```
protected void doGet(HttpServletRequest req, HttpServletResponse
String input = req.getParameter("input");

// Match the input against a whitelist
if (!whiteList.contains(input))
    throw new IOException();

ScriptEngineManager manager = new ScriptEngineManager();
ScriptEngine engine = manager.getEngineByName("JavaScript"
engine.eval(input);
}
```

See

- OWASP Top 10 2021 Category A3 - Injection
- OWASP Top 10 2017 Category A1 - Injection
- MITRE, CWE-20 - Improper Input Validation
- MITRE, CWE-95 - Improper Neutralization of Directives in Dynamically Evaluated Code ('Eval Injection')
- SANS Top 25 - Risky Resource Management

Available In:
sonarcloud **sonarqube** Developer Edition

multiple locks are held

 Bug

"PreparedStatement" and "ResultSet" methods should be called with valid indices

 Bug

Files opened in append mode should not be used with ObjectOutputStream

 Bug

"wait(...)" should be used instead of "Thread.sleep(...)" when a lock is held

 Bug

© 2008-2022 SonarSource S.A., Switzerland. All content is copyright protected. SONAR, SONARSOURCE, SONARLINT, SONARQUBE and SONARCLOUD are trademarks of SonarSource S.A. All other trademarks and copyrights are the property of their respective owners. All rights are expressly reserved.
[Privacy Policy](#)