sonar

RULES

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Java static code analysis

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

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Tags

Search by name...

be the same or differ only by capitalization

Code Smell

Switch cases should end with an unconditional "break" statement

Code Smell

"switch" statements should not contain non-case labels

Code Smell

Future keywords should not be used as names

Code Smell

Thread suspensions should not be vulnerable to Denial of Service attacks

Vulnerability

A new session should be created during user authentication

Vulnerability

JWT should be signed and verified with strong cipher algorithms

Vulnerability

Cipher algorithms should be robust

Vulnerability

Encryption algorithms should be used with secure mode and padding scheme

Vulnerability

Server hostnames should be verified during SSL/TLS connections

Vulnerability

Insecure temporary file creation methods should not be used

Vulnerability

Passwords should not be stored in plain-text or with a fast hashing algorithm

Printf-style format strings should not lead to unexpected behavior at runtime

Analyze your code

BugBlockercert

Because printf-style format strings are interpreted at runtime, rather than validated by the Java compiler, they can contain errors that lead to unexpected behavior or runtime errors. This rule statically validates the good behavior of printf-style formats when calling the format(...) methods of java.util.Formatter, java.lang.String, java.io.PrintStream, MessageFormat, and java.io.PrintWriter classes and the printf(...) methods of java.io.PrintStream or java.io.PrintWriter classes.

Noncompliant Code Example

```
String.format("The value of my integer is %d", "Hello World")
String.format("Duke's Birthday year is %tX", c); //Noncompl
String.format("Display %0$d and then %d", 1); //Noncomplia
String.format("Not enough arguments %d and %d", 1); //Nonco
String.format("%< is equals to %d", 2); //Noncompliant; th

MessageFormat.format("Result {1}.", value); // Noncompliant;
MessageFormat.format("Result {{0}}.", value); // Noncompliant
MessageFormat.format("Result ' {0}", value); // Noncompliant

java.util.logging.Logger logger;
logger.log(java.util.logging.Level.SEVERE, "Result {1}!", 14

org.slf4j.Logger slf4jLog;
org.slf4j.Marker marker;

slf4jLog.debug(marker, "message {}"); // Noncompliant - Not

org.apache.logging.log4j.Logger log4jLog;
log4jLog.debug("message {}"); // Noncompliant - Not enough a
```

Compliant Solution

```
String.format("The value of my integer is %d", 3);
String.format("Duke's Birthday year is %tX", c);
String.format("Display %1$d and then %d", 1);
String.format("Not enough arguments %d and %d", 1, 2);
String.format("%d is equals to %<", 2);





MessageFormat.format("Result {0}.", value);
MessageFormat.format("Result {0} & {1}.", value, value);
MessageFormat.format("Result {0}.", myObject);

java.util.logging.Logger logger;
logger.log(java.util.logging.Level.SEVERE, "Result {1},{2}!"

org.slf4j.Logger slf4jLog;
org.slf4j.Marker marker;
```

https://rules.sonarsource.com/java/RSPEC-2275

1/2

 Vulnerability
Server certificates should be verified during SSL/TLS connections
 Vulnerability
Persistent entities should not be used as arguments of "@RequestMapping" methods
 Vulnerability
"HttpSecurity" URL patterns should be correctly ordered
 Vulnerability
LDAP connections should be

```
slf4jLog.debug(marker, "message {}", 1);

org.apache.logging.log4j.Logger log4jLog;
log4jLog.debug("message {}", 1);
```

See

- [CERT, FIO47-C](#). - Use valid format strings

Available In:

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