




 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

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Basic authentication should not be used

Vulnerability

Regular expressions should not be vulnerable to Denial of Service attacks

Vulnerability

"HttpServletRequest.getRequestSession" should not be used

Vulnerability

Hashes should include an unpredictable salt

Vulnerability

Calls to methods should not trigger an IllegalArgumentException

Bug

Unsupported methods should not be called on some collection implementations

Bug

Cast operations should not trigger a ClassCastException

Bug

Members ignored during record serialization should not be used

Bug

Map "computeIfAbsent()" and "computeIfPresent()" should not be used to add "null" values.

Bug

Regex lookahead assertions should not be contradictory

Bug

Back references in regular expressions should only refer to capturing groups that are matched before the reference

Assertions should be complete

Analyze your code

Code Smell

Blocker

tests assertj mockito

It is very easy to write incomplete assertions when using some test frameworks. This rule enforces complete assertions in the following cases:

- Fest: `assertThat` is not followed by an assertion invocation
- AssertJ: `assertThat` is not followed by an assertion invocation
- Mockito: `verify` is not followed by a method invocation
- Truth: `assertThatXXX` is not followed by an assertion invocation

In such cases, what is intended to be a test doesn't actually verify anything

Noncompliant Code Example

```
// Fest
boolean result = performAction();
// let's now check that result value is true
assertThat(result); // Noncompliant; nothing is actually checked

// Mockito
List mockedList = Mockito.mock(List.class);
mockedList.add("one");
mockedList.clear();
// let's check that "add" and "clear" methods are actually called
Mockito.verify(mockedList); // Noncompliant; nothing is checked
```

Compliant Solution

```
// Fest
boolean result = performAction();
// let's now check that result value is true
assertThat(result).isTrue();

// Mockito
List mockedList = Mockito.mock(List.class);
mockedList.add("one");
mockedList.clear();
// let's check that "add" and "clear" methods are actually called
Mockito.verify(mockedList).add("one");
Mockito.verify(mockedList).clear();
```


Exceptions

Variable assignments and return statements are skipped to allow helper methods.


```
private BooleanAssert check(String filename, String key) {
    String fileContent = readFileContent(filename);
    performReplacements(fileContent);
    return assertThat(fileContent.contains(key)); // No issue
}
```

https://rules.sonarsource.com/java/RSPEC-2970


1/2

 Bug


Regex boundaries should not be used in a way that can never be matched

 Bug

Regex patterns following a possessive quantifier should not always fail

 Bug




Regular expressions should be syntactically valid

 Bug

Assertions comparing incompatible

```
@Test
public void test() {
    check("foo.txt", "key1").isTrue();
    check("bar.txt", "key2").isTrue();
}
```

Available In:

sonarlint  | **sonarcloud**  | **sonarqube** 

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