




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


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VB.NET

VB6

XML



Scala static code analysis

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

All rules 41

Bug 6

Security Hotspot 2

Code Smell 33

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Search by name... 🔍

Security Hotspot

Cognitive Complexity of functions should not be too high

Code Smell

Code Smell

String literals should not be duplicated

Code Smell

Code Smell

Methods should not be empty

Code Smell

Bug

All branches in a conditional structure should not have exactly the same implementation

Bug

Bug

Related "if"/"else if" statements and "case" in a "match" should not have the same condition

Bug

Bug

Identical expressions should not be used on both sides of a binary operator

Bug

Bug

All code should be reachable

Bug

Bug

Variables should not be self-assigned

Bug

Bug

Useless "if(true) {...}" and "if(false){...}" blocks should be removed

Bug

Code Smell

Methods should not have identical implementations

Code Smell

Code Smell

Two branches in a conditional structure should not have exactly the same implementation

Code Smell

Hard-coded credentials are security-sensitive

Analyze your code

Security Hotspot

Blocker

?

cwe sans-top25 owasp

Because it is easy to extract strings from an application source code or binary, credentials should not be hard-coded. This is particularly true for applications that are distributed or that are open-source.

In the past, it has led to the following vulnerabilities:

- [CVE-2019-13466](#)
- [CVE-2018-15389](#)

Credentials should be stored outside of the code in a configuration file, a database, or a management service for secrets.

This rule flags instances of hard-coded credentials used in database and LDAP connections. It looks for hard-coded credentials in connection strings, and for variable names that match any of the patterns from the provided list.

It's recommended to customize the configuration of this rule with additional credential words such as "oauthToken", "secret", ...

Ask Yourself Whether

- Credentials allows access to a sensitive component like a database, a file storage, an API or a service.
- Credentials are used in production environments.
- Application re-distribution is required before updating the credentials.

There is a risk if you answered yes to any of those questions.

Recommended Secure Coding Practices

- Store the credentials in a configuration file that is not pushed to the code repository.
- Store the credentials in a database.
- Use your cloud provider's service for managing secrets.
- If a password has been disclosed through the source code: change it.

See

- [OWASP Top 10 2021 Category A7](#) - Identification and Authentication Failures
- [OWASP Top 10 2017 Category A2](#) - Broken Authentication
- [MITRE, CWE-798](#) - Use of Hard-coded Credentials
- [MITRE, CWE-259](#) - Use of Hard-coded Password
- [SANS Top 25](#) - Porous Defenses
- Derived from FindSecBugs rule [Hard Coded Password](#)






Available In:

sonarcloud

sonarqube

https://rules.sonarsource.com/scala/RSPEC-2068

1/2


"match" expressions should not have too many "case" clauses
 Code Smell
Sections of code should not be commented out
 Code Smell
Unused function parameters should be removed
 Code Smell
Unused "private" methods should be removed
 Code Smell

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