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Go static code analysis

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

All rules **38** | 🐞 Bug **7** | 🛡 Security Hotspot **2** | ☢ Code Smell **29**

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Rules list

Hard-coded credentials are security-sensitive
🛡 Security Hotspot

Cognitive Complexity of functions should not be too high
☢ Code Smell

String literals should not be duplicated
☢ Code Smell

Functions should not be empty
☢ Code Smell

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

"=+" should not be used instead of "+="
🐞 Bug

Related "if/else if" statements should not have the same condition
🐞 Bug

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

All code should be reachable
🐞 Bug

Variables should not be self-assigned
🐞 Bug

Functions should not have identical implementations
☢ Code Smell

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

Statements should be on separate lines

Analyze your code

☢ Code Smell   ⬣ Major ?   🏷 convention

For better readability, do not put more than one statement on a single line.

Noncompliant Code Example

```
foo(); bar() // Noncompliant
```

Compliant Solution

```
foo()
bar()
```

Exceptions

Control flow statements with a single nested statement are ignored.

```
if condition { doSomething() } // Compliant
```

Available In:

sonarcloud | sonarqube

"switch" statements should not have too many "case" clauses

⚙ Code Smell

Track uses of "FIXME" tags

⚙ Code Smell

Redundant pairs of parentheses should be removed

⚙ Code Smell

Nested blocks of code should not be left empty

⚙ Code Smell

Functions should not have too many parameters

⚙ Code Smell

Using hardcoded IP addresses is security-sensitive

🛡 Security Hotspot

Multi-line comments should not be empty

⚙ Code Smell

Boolean checks should not be inverted

⚙ Code Smell

Local variable and function parameter names should comply with a naming convention

⚙ Code Smell

Boolean literals should not be redundant

⚙ Code Smell