Secrets

ABAP

Apex

C

C++

CloudFormation

COBOL

C#

CSS

Flex

Go

HTML

Java

JavaScript

**Kotlin**

Kubernetes

Objective C

PHP

PL/I

PL/SQL

Python

RPG

Ruby

Scala

Swift

Terraform

Text

TypeScript

T-SQL

VB.NET

VB6

XML

# Kotlin static code analysis

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

All rules 98 | 🔓 Vulnerability 10 | 🐛 Bug 17 | 🛡 Security Hotspot 15 | ☣ Code Smell 56

Tags ⌄

Search by name...

---

Hard-coded credentials are security-sensitive

🛡 Security Hotspot

---

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

---

Server certificates should be verified during SSL/TLS connections

🔓 Vulnerability

---

Cryptographic keys should be robust

🔓 Vulnerability

---

Weak SSL/TLS protocols should not be used

🔓 Vulnerability

---

"SecureRandom" seeds should not be predictable

🔓 Vulnerability

---

Cipher Block Chaining IVs should be unpredictable

🔓 Vulnerability

---

Hashes should include an unpredictable salt

🔓 Vulnerability

---

Regular expressions should be syntactically valid

🐛 Bug

---

"runFinalizersOnExit" should not be called

🐛 Bug

---

## Collapsible "if" statements should be merged

**Analyze your code**

☣ Code Smell   🔻 Major ⍰   🏷 clumsy

---

Merging collapsible `if` statements increases the code's readability.

**Noncompliant Code Example**

```
if (file != null) {
  if (file.isFile() || file.isDirectory()) {
    /* ... */
  }
}
```

**Compliant Solution**

```
if (file != null && isFileOrDirectory(file)) {
  /* ... */
}
fun isFileOrDirectory(file: File): Boolean {
    return file.isFile() || file.isDirectory();
}
```

Available In:

sonarlint 😊 | sonarcloud ☁ | sonarqube

**"ScheduledThreadPoolExecutor" should not have 0 core threads**

🐞 Bug

**Jump statements should not occur in "finally" blocks**

🐞 Bug

**Using clear-text protocols is security-sensitive**

🛡 Security Hotspot

**Accessing Android external storage is security-sensitive**

🛡 Security Hotspot

**Receiving intents is security-sensitive**

🛡 Security Hotspot

**Broadcasting intents is security-sensitive**

🛡 Security Hotspot

**Using weak hashing algorithms is security-sensitive**

🛡 Security Hotspot

**Using pseudorandom number generators (PRNGs) is security-sensitive**

🛡 Security Hotspot

**Empty lines should not be tested with regex MULTILINE flag**

☣ Code Smell

**Cognitive Complexity of functions should not be too high**

☣ Code Smell