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Kotlin static code analysis

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

All rules 98 6 Vulnerability (10) **R** Bug (17)

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Tags

Search by name...

Hard-coded credentials are securitysensitive

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

Rug Bug

"runFinalizersOnExit" should not be called

🛊 Bug

Extension functions on CoroutineScopes should not be declared as "suspend"

Analyze your code



coroutines

There are two ways to define asynchronous functions in Kotlin:

- using the modifier suspend in the function declaration
- creating an extension function on CoroutineScope (or passing it as a parameter)

The suspend modifier is generally used for functions that might take some time to complete. The caller coroutine might be potentially suspended.

Functions that return results immediately but start a coroutine in the background should be written as extension functions on CoroutineScope. At the same time, these functions should not be declared suspend, as suspending functions should not leave running background tasks behind.

Noncompliant Code Example

```
suspend fun CoroutineScope.f(): Int {
    val resource1 = loadResource1()
   val resource2 = loadResource2()
    return resource1.size + resource2.size
}
```

Compliant Solution

Using suspend:

```
suspend fun f(): Int {
    val resource1 = loadResource1()
    val resource2 = loadResource2()
    return resource1.size + resource2.size
}
```

Using extension on CoroutineScope:

```
fun CoroutineScope.f(): Deferred<Int> = async {
   val resource1 = loadResource1()
   val resource2 = loadResource2()
   resource1.size + resource2.size
```

See

• Coroutine Context and Scope

Available In:

sonarlint ⊕ | sonarcloud ♦ | sonarqube

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"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
Cognitive Complexity of functions should not be too high