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Kotlin static code analysis

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

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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

Alternatives in regular expressions should be grouped when used with anchors

Analyze your code

Bug | Major | regex

In regular expressions, anchors (`^`, `$`, `\A`, `\Z` and `\z`) have higher precedence than the `|` operator. So in a regular expression like `^alt1|alt2|alt3$`, `alt1` would be anchored to the beginning, `alt3` to the end and `alt2` wouldn't be anchored at all. Usually the intended behavior is that all alternatives are anchored at both ends. To achieve this, a non-capturing group should be used around the alternatives.

In cases where it is intended that the anchors only apply to one alternative each, adding (non-capturing) groups around the anchors and the parts that they apply to will make it explicit which parts are anchored and avoid readers misunderstanding the precedence or changing it because they mistakenly assume the precedence was not intended.

Noncompliant Code Example

```
^a|b|c$
```

Compliant Solution

```
^(?:a|b|c)$
```

or

```
^a$|^b$|^c$
```

or, if you do want the anchors to only apply to `a` and `c` respectively:

```
(?:^a)|b|(?:c$)
```

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