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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 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

Repeated patterns in regular expressions should not match the empty string

Analyze your code

Bug Minor regex

A regex should never include a repetitive pattern whose body would match the empty string. This is usually a sign that a part of the regex is redundant or does not do what the author intended.

Noncompliant Code Example

```
"(?:) *" // same as the empty regex, the '*' accompl
"?:|x) *" // same as the empty regex, the alternative
"?:x|) *" // same as 'x*', the empty alternative has
"?:x*|y*) *" // same as 'x*', the first alternative woul
"?:x?)* " // same as 'x*'
"?:x?)+ " // same as 'x*'
```

Compliant Solution

```
"x* "
```

Available In:

sonarlint | sonarcloud | sonarqube

| |
|--|
| <div>"ScheduledThreadPoolExecutor" should not have 0 core threads</div> <div> Bug</div> |
| <div>Jump statements should not occur in "finally" blocks</div> <div> Bug</div> |
| <div>Using clear-text protocols is security- sensitive</div> <div> Security Hotspot</div> |
| <div>Accessing Android external storage is security-sensitive</div> <div> Security Hotspot</div> |
| <div>Receiving intents is security-sensitive</div> <div> Security Hotspot</div> |
| <div>Broadcasting intents is security- sensitive</div> <div> Security Hotspot</div> |
| <div>Using weak hashing algorithms is security-sensitive</div> <div> Security Hotspot</div> |
| <div>Using pseudorandom number generators (PRNGs) is security- sensitive</div> <div> Security Hotspot</div> |
| <div>Empty lines should not be tested with regex MULTILINE flag</div> <div> Code Smell</div> |
| <div>Cognitive Complexity of functions should not be too high</div> <div> Code Smell</div> |
| |