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# **Kotlin static code analysis**

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

**R** Bug (17) Code Smell (56) Security Hotspot (15) All rules 98 6 Vulnerability (10)

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



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Analyze your code

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WebViews can be used to display web content as part of a mobile application. A browser engine is used to render and display the content. Like a web application a mobile application that uses WebViews can be vulnerable to Cross-Site Scripting if untrusted code is rendered.

If malicious JavaScript code in a WebView is executed this can leak the contents of sensitive files when access to local files is enabled.

### **Ask Yourself Whether**

- No local files have to be accessed by the Webview.
- The WebView contains untrusted data that could cause harm when rendered.

There is a risk if you answered yes to any of those questions.

## **Recommended Secure Coding Practices**

It's recommended to disable access to local files for WebViews unless it is necessary. In the case of a successful attack through a Cross-Site Scripting vulnerability the attackers attack surface decreases drastically if no files can be read out.

## **Sensitive Code Example**

import android.webkit.WebView

val webView: WebView = findViewById(R.id.webview) webView.getSettings().setAllowContentAccess(true) // Sen webView.getSettings().setAllowFileAccess(true) // Sensit

## **Compliant Solution**

import android.webkit.WebView

val webView: WebView = findViewById(R.id.webview) webView.getSettings().setAllowContentAccess(false) webView.getSettings().setAllowFileAccess(false)

## See

- OWASP Top 10 2021 Category A3 Injection
- OWASP Top 10 2017 Category A6 Security Misconfiguration
- OWASP Top 10 2017 Category A7 Cross-Site Scripting (XSS)
- MITRE, CWE-79 Improper Neutralization of Input During Web Page Generation ('Cross-site Scripting')

Available In:

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"ScheduledThreadPoolExecutor" should not have 0 core threads
🖟 Bug
Jump statements should not occur in "finally" blocks
n 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

Code Smell

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