[2019-09-12] Change Log

- New version of CQM (2.4.0) and Kiuwan Engine
 - Support for KOTLIN programming language
 - Added Support for RM/COBOL dialect in COBOL technology.
 - Duplicated Code rules are not longer mandatory

New version of CQM (2.4.0) and Kiuwan Engine



Main features are:

- Support for KOTLIN programming language
- Support for RM/Cobol dialect
- Duplicated Code rules are not longer mandatory

CQM is the default Model (i.e. a concrete set of active and pre-configured rules):

- If you are using CQM,
 - new rules will automatically become active and will be applied to new analyses
- If you are using your own **custom model, your model remains unchaged,** but you can modify it and activate the new rules (in case you want to be applied to your code).

You can find new rules by comparing this release of CQM against previous version. A detailed description of the behavior of these new rules is available in rule's description.

This new version of Kiuwan Engine incorporates bug fixes, performance and reliability improvements in rules and parsers.

Kiuwan Engine is the binary code executed when an analysis is run.

- If the engine is not blocked in your Kiuwan account, the engine will upgrade automatically to the last version of Kiuwan Engine
 once a new analysis is run
- If the engine is blocked, your kiuwan engine will not be modified.



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Support for KOTLIN programming language

Kotlin is a cross-platform, statically typed, general-purpose programming language with type inference and it's Google's preferred language for Android app development since 7 May 2019.

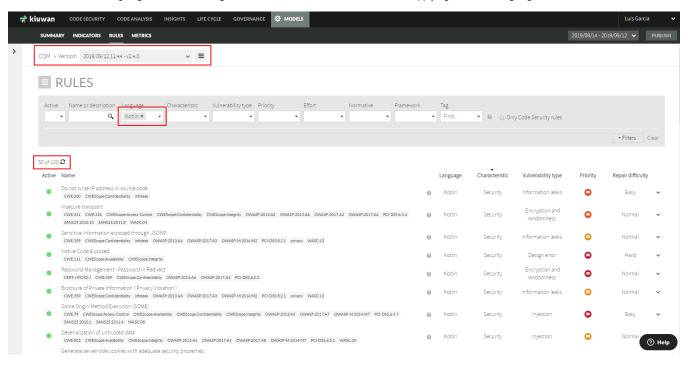
Kotlin is *officially supported by Google for mobile development on Android*. It targets the JVM, but also compiles to JavaScript or native code (via LLVM), and it's an alternative to the standard Java compiler.

As Kotlin is becoming a widely adopted programming language, *Kiuwan* now incorporates *support to analyze Kotlin source files*, thus searching for code and desing conditions that are indicative of *security vulnerabilities*.

ⓓ

Kiuwan provides 100 Rules specifically suited to Kotlin programming language.

You can find these rules going to Models Management, select CQM and search for Rules applying to Kotlin language



Added Support for RM/COBOL dialect in COBOL technology.

Support for RM/Cobol dialect has been added to current list of supported Cobol dialects.

All versions between 9.x to 12.16 (latest version at the moment of writing this post) have been succesfully tested.

Current list of supported Cobol dialects:

- · Cobol85,
- OS/VS Cobol II
- IBM Enterprise COBOL for z/OS v5
- IBM ILE COBOL 5
- HP COBOL for TNS (Tandem NonStop)
- AcuCOBOL-GT
- Net Express COBOL 5 / Server Express COBOL
- MicroFocus RM/COBOL 9.x to 12.16

Duplicated Code rules are not longer mandatory

When creating a new model, it was mandatory to activate duplicated code rules (i.e. rules that check for repeated blocks in source code).

This new Kiuwan release no longer forces duplicated code rules to be activated in your custom model.

- Standard pseudo-random number generators cannot withstand cryptographic attacks.
- Denial of Service by externally controlled sleep time
- Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection')

- Too broad privileges granted.
 Avoid using an user controlled Primary Key into a query
 Weak cryptographic hashes cannot guarantee data integrity
 Weak symmetric encryption algorithm.