

# [2019-04-26] Change Log

- [New version of Kiuwan](#)
  - [Support for Scala programming language](#)
  - [Support for SAML Single Sign-On \(SSO\)](#)
  - [Vulnerabilities and Licenses Policy Management in Kiuwan Insights](#)
  - [Insights support for Ruby](#)
  - [Kiuwan for Developers plugin for VisualStudio Code](#)

## New version of Kiuwan



A **new version of Kiuwan** has been released.

Major changes are:

- **Support for Scala programming language**
- **Support for SAML Single Sign-On (SSO)**
- **Vulnerabilities and License Management in Kiuwan Insights**
- **Insights support for Ruby**
- **Kiuwan for Developers plugin for VisualStudio Code**

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 unchanged**, 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.



A **new version of Kiuwan Engine** has been released that 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**.

## Support for Scala programming language

**Scala** is a general-purpose programming language providing support for functional programming and a strong static type system.

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



Kiuwan provides **61 Security Rules** specifically suited to **Scala** programming language.

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

**kIUanwan**
CODE SECURITY
CODE ANALYSIS
ARCHITECTURE
INSIGHTS
LIFE CYCLE
GOVERNANCE
**MODELS**
Luis Garcia

SUMMARY
INDICATORS
RULES
METRICS

CQM > Version 2019/04/12 10:01 · v2.2.0

## RULES

Active	Name or description	Language	Characteristic	Vulnerability type	Priority	Effort	Normative	Framework	Tag
<input type="checkbox"/>	<input type="text" value="Search"/>	<input type="text" value="Scala X"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="Find..."/> <input checked="" type="checkbox"/> Only Code Security rules

50 of 61

Active	Name	Language	Characteristic	Vulnerability type	Priority	Repair difficulty
<input checked="" type="checkbox"/>	Access Control - Anonymous LDAP Bind CWE-285 CWEScope-Access-Control CWEScope-Confidentiality CWEScope-Integrity OWASP-2013.A4 OWASP-2013.A7 OWASP-2017.A5 PCI-DSS-6.5.8 SANIS25.2010.5	Scala	Security	Permissions, privileges and access controls	High	Normal
<input checked="" type="checkbox"/>	Avoid non-neutralized user-controlled input in dynamic code evaluation CERT-JIDS52-J CWE-94 CWE-95 CWEScope-Access-Control CWEScope-Availability CWEScope-Confidentiality CWEScope-Integrity CWEScope-Non-Reputation OWASP-2013.A1 OWASP-2017.A1 OWASP-M-2014.M7 PCI-DSS-6.5.1 WASC-20	Scala	Security	Injection	High	Normal
<input checked="" type="checkbox"/>	Improper Neutralization of Special Elements used in an OS Command ("OS Command Injection") CERT-JIDS57-J CWE-77 CWE-78 CWEScope-Availability CWEScope-Confidentiality CWEScope-Integrity CWEScope-Non-Reputation OWASP-2013.A1 OWASP-2017.A1 PCI-DSS-6.5.1 SANIS25.2010.9 SANIS25.2011.2 WASC-31	Scala	Security	Injection	High	Normal
<input checked="" type="checkbox"/>	Connection string polluted with untrusted input CWE-159 CWEScope-Integrity OWASP-2013.A1 PCI-DSS-6.5.1 WASC-20	Scala	Security	Injection	High	Easy
<input checked="" type="checkbox"/>	Hardcoded cryptographic keys CERT-JMISC03-J crypto CWE-320 CWE-321 CWEScope-Access-Control essential OWASP-2013.A6 OWASP-M-2014.M6 PCI-DSS-6.3.1 WASC-13	Scala	Security	Encryption and randomness	High	Normal
<input checked="" type="checkbox"/>	Improper Neutralization of CRLF Sequences in HTTP Headers ("HTTP Response Splitting") CWE-113 CWEScope-Access-Control CWEScope-Integrity OWASP-2013.A1 PCI-DSS-6.5.1 WASC-25	Scala	Security	Injection	High	Normal
<input checked="" type="checkbox"/>	Avoid using non-neutralized user-controlled input into JSON entities - JSON Injection CWE-345 CWEScope-Integrity OWASP-2013.A1 OWASP-2017.A1 PCI-DSS-6.5.1 WASC-20	Scala	Security	Injection	High	Normal


## Support for SAML Single Sign-On (SSO)

Since April 2019 release, ***Kiuwan allows you to login in a Single Sign-One (SSO) environment.***

By implementing SSO, a user is able to log in to different independent systems through the use of a single set of credentials, centrally managed in a repository.

SSO can be implemented through different protocols, being **SAML** the most widely used.

**Kiuwan provides support for SAML SSO**, thus allowing you to integrate Kiuwan with most corporate users' credentials repositories (*Active Directory FS, Azure AD, CA Single Sign-On, etc*).

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You can read more at [How to integrate Kiuwan with SAML SSO](#)

## Vulnerabilities and Licenses Policy Management in Kiuwan Insights

When searching for **Vulnerabilities on open source code** used by your application, you can now define your custom policy. Thus, you can decide now if raising alerts on specific vulnerabilities and conditions.

Same way, when Kiuwan Insights searches for **License risks**, you can now fully customize your License policy and adapt Insights' finding to your organization.

You can find further info at [Vulnerabilities Management](#) and [Licenses Policies Management](#)

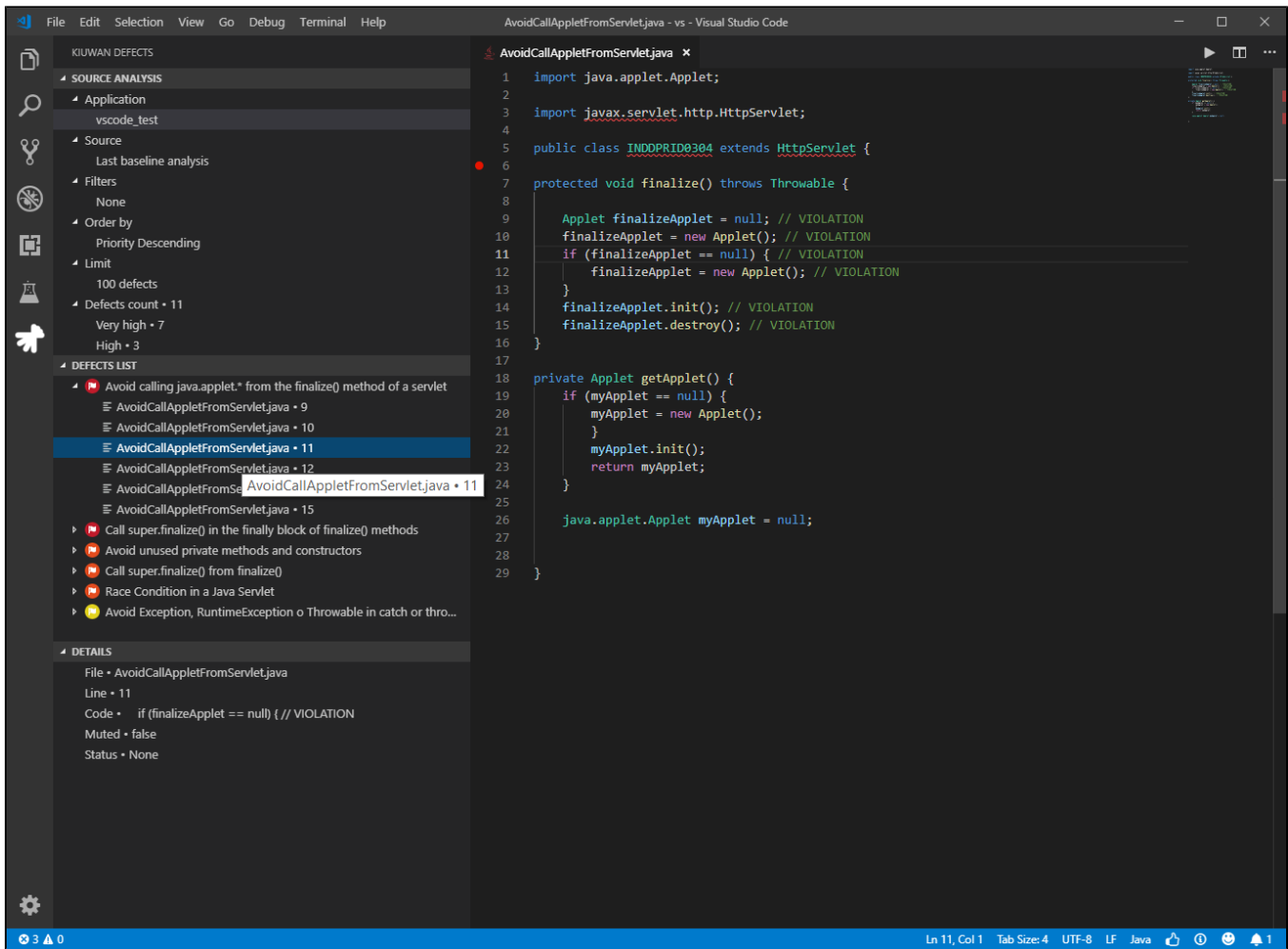
## Insights support for Ruby

Kiwan Insights now support discovering of **Ruby** open-source **dependencies** used by your app, as well as informing of **Ruby vulnerabilities** reported to NVD

## Kiuwan for Developers plugin for VisualStudio Code

Kiuwan for Developers (K4D) for Microsoft Visual Studio Code has just been released.

VS Code plugin will facilitate and automate compliance with security normative, quality standards and best practices for several languages.



You can find further info at [Kiuwan for Developers for Microsoft Visual Studio Code](#)