

# LTS (3.7.x) to LTS (4.5.x) Migration

This page intends to provide information about potential impacts of migrating from SonarQube 3.7.x to SonarQube 4.5.x. It is not meant to replace the [upgrade procedure](#), nor will it provide comprehensive information about plugin [compatibility](#).

## Core

- **Multi-language:** with the new capability to analyze multi-language projects, SonarQube will behave differently when `sonar.language` is not defined. Previously, Java analysis was the default. Now the project will be seen as multi-language, and more files will be analyzed.
- **Execution of unit tests:** SonarQube no longer executes unit tests and computes code coverage, see <http://www.sonarqube.org/unit-test-execution-in-sonarqube/>. This only impacts Maven users. This information must now be computed prior to analysis. See individual language plugin documentation for specific information.
- **War mode:** the war mode is no longer available; SonarQube must now be run as a standalone application.
- **Sources directory:** by default sources cannot be outside the analysis directory anymore.
- **Rules Compliance Index and Weighted Issues:** the RCI and Weighted Issues metrics are no longer part of the core platform, but come through a plugin called [Issues Density](#).

## Plugins

### Developer Cockpit Plugin

Developer Cockpit is not computed as part of project analysis anymore; a separate job must be configured that will run `sonar-runner devcockpit`.

### Java Plugins

[Checkstyle](#) and [PMD](#) plugins are no longer part of the core plugin. If you use Checkstyle and/or PMD rules, you must install those plugins to preserve quality profiles

### .Net Plugins

The .NET 2.x ecosystem has been rewritten and replaced with 3 plugins: [C#](#), [VB.NET](#) and [Analysis Bootstrapper for Visual Studio Projects](#). Remove all pieces of the .NET 2.1 environment and install the newest plugins.

### Web Plugin

Files analyzed by the plugin by default have now been reduced to ".html,.xhtml,.rhtml,.shtml"

### Views Plugin

Views are not computed as part of project analysis anymore; a separate job must be configured that will run "sonar-runner views"

## Analyzers

[Analyzers](#) should also be updated to the latest version.

## IDE Integration

Eclipse and IntelliJ plugins allow now to run local / pre-commit analysis in incremental and differential way.