

SCM Activity Plugin

⚠️ Deprecated

This plugin is deprecated since SonarQube 5.0 which has built-in support for SCM information and which relies on independent plugins to cover SCM providers.

Description / Features

This plugin collects SCM blame information and displays the date of the commit and the committer ID to the left of each line of code:

SonarQube / SonarQube :: Server

src/main/java/org/sonar/server/platform/PlatformServletContextListener.java

56 Lines of code | 55min Debt | 4 Issues | SCM

Time Changes

Modified Lines >

2010-09-06 simon.brandhof@gma... 1
2013-04-21 simon.brandhof@gma... 2
2014-03-11 simon.brandhof@gma... 3
2010-09-06 simon.brandhof@gma... 4
2013-04-21 simon.brandhof@gma... 6
2010-09-06 simon.brandhof@gma... 7
2013-04-21 simon.brandhof@gma... 11
2010-09-06 simon.brandhof@gma... 12

Date and committer for most recent commit on each line

This plugin also enables the computation of:

- [code coverage on new code](#)
- developer metrics when the [Developer Cockpit plugin](#) is installed

This plugin is enabled by default for all projects. The SCM Activity plugin can be disabled on a project-by-project basis, or disabled globally at **Settings > General Settings > SCM Activity** and then enabled on a project-by-project basis.

For more detail on how to see SCM data in the code, please see the [SCM Information tab](#) section of the [Component Viewer](#) documentation for version 5.0.

Requirements

All SCM providers currently **require the native executable to be installed** on the server where the SonarQube analysis will run. For example, for projects hosted on a Subversion repository and analysed on a Jenkins server, an svn executable must be available on the Jenkins server (and its slaves if any).

Plugin	1.3	1.4	1.5	1.6	1.7.1	1.8
Subversion (1.6+ client)	✓	✓	✓	✓	✓	✓
Git	✓	✓	✓	✓	✓	✓
Mercurial	✓	✓	✓	✓	✓	✓
CVS	✓	✓	✓	★	★	★
Perforce	?	?	★	★	★	★

ClearCase	✗	?	★	★	★	★
Bazaar	?	?	?	?	?	?
Team Foundation Server (all versions) Requires SonarTfsAnnotate.exe to be installed and available from the %PATH%.	✗	✗	✗	✗	✗	✓
Accurev	?	?	?	?	?	?
Jazz RTC	✗	?	?	★	★	★
MKS Integrity	✗	?	?	?	?	?
Visual SourceSafe	✗	✗	✗	✗	✗	✗
CM Synergy	✗	✗	✗	✗	✗	✗
StarTeam	✗	✗	✗	✗	✗	✗

✓ - supported

★ - tested by users

? - not tested

✗ - not implemented

Installation

1. Install the plugin through the [Marketplace](#) or download it into the `SONARQUBE_HOME/extensions/plugins` directory
2. Restart the SonarQube server

Usage

Configuring the SCM Activity Plugin: SVN, Git, Mercurial and Team Foundation Server (TFS)

Information is automatically retrieved from the `.git`, `.svn`, `$tf`, etc. folders. Therefore, nothing has to be configured and no configuration will be taken into account.

In order for this to work, the `sonar-project.properties` file needs to be located in a checked-out folder, but it does not have to be checked-in. Alternatively, you can set the `"sonar.projectBaseDir"` property to a checked-in folder (requires sonar-runner 2.4 at least), and have the `sonar-project.properties` files located anywhere.

Configuring the SCM Activity Plugin: Others

At the project level, go to **Configuration > Settings > SCM Activity**

1. Set the *SCM URL* your project (see [SCM URL Format](#)).
2. Specify the *User* and *Password* properties if needed. If the *SCM URL* property contains the user information (as with CVS), then these fields should be left blank.
3. Launch a new quality analysis and the metrics will be computed.

SCM URL Property Key is = `sonar.scm.url`



Security note for SonarQube 3.4.0 to 3.6.3 included

For the `*.secured` properties to be read during the project analysis, it is necessary to set the `sonar.login` and `sonar.password` properties to the credentials of a user that is:

- System administrator
- And project administrator on the project that is being analyzed

Example:

```
sonar-runner -Dsonar.login=admin -Dsonar.password=admin
```

Forcing the Retrieval of Blame Information



Note that a property should be added sooner or later to explicitly force this retrieval or not. See [SONARPLUGINS-2359](#).

Troubleshooting

Subversion "Server certificate verification failed: issuer is not trusted"

Add the following to `.subversion/servers`:

```
[global]
ssl-authority-files = /path/certificate.crt
ssl-trust-default-ca = yes
```

CVS anonymous access not working "org.apache.maven.scm.ScmException: password is required."

Try setting an empty password for the repository in `.cvspass`. For example:

```
/1 :pserver:anonymous@javacaltools.cvs.sourceforge.net:2401/cvsroot/javacaltools A
```

I use Git and the annotated sources sometimes display a wrong/old author name

The plugin uses the `'git blame'` command to get the author of each line. Because a single user can commit with multiple author names/emails, it is advised to have a `.mailmap` file at the root of the repository. This file is used by `'git blame'` to determine the canonical name/email of each user.

See http://git-scm.com/docs/git-blame#_mapping_authors

I use Git and the annotated sources sometimes display "Not Committed Yet"

If you have set the parameter `autocrlf` to `"true"` or `"input"`, and the source file was previously committed with Windows line endings, then `git blame` will report each line as "Not Committed Yet" as an indication that the file will be normalized to Unix line endings in case you do a modification and a commit on the same file.

The simplest workaround is to always set `autocrlf` to `"false"` on the box doing the SonarQube analysis.

Specific configuration for Jazz RTC

The number of threads used to speed-up the retrieval of authors by line (aka blame information) has to be set to `'1'` (`sonar.scm.threadCount` property).

Additional configuration for Perforce

Since version 1.6, you have to set an additional property to define the Perforce client name while running your analysis: `sonar.scm.perforce.clientspec.name`.

Example:

```
sonar-runner -Dmaven.scm.perforce.clientspec.name=myPerforceClientName
```