

SonarQube

SonarQube is an open source tool suite to measure and analyse the quality of source code.

It is written in Java but is able to analyse code in about 20 different programming languages.

Code analysis may be started manually by executing a so-called sonar runner

but SonarQube's full potential is especially revealed when used in combination with continuous integration such as a Jenkins server.

The results of an analysis are shown in a fancy web frontend with 'green' and 'red lights', nice charts, issue lists and an ability to drill down from project level to a single class.

SONAR

Dashboard

Hotspots

Issues

Time Machine

TOOLS

Components

Issues Drilldown

Design

Libraries

Clouds

Compare



Version 1.0 - Apr 19 2014 15:45

Time changes...

[Configure widgets](#)[Manage dashboards](#)

Unit Tests Coverage

56.6%

56.6% line coverage

Unit test success

0 tests

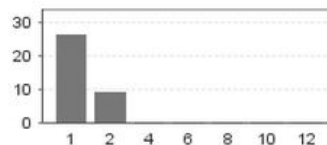
Complexity

1.3 /function

3.1 /class

1.9 /file

Total: 46

☒ Functions ☐ Files

Duplications

0.0%

0 lines

0 blocks

0 files

Lines of code

527

751 lines

138 statements

Files

24

12 directories

15 classes

35 functions

8 accessors

Issues

99

Technical Debt

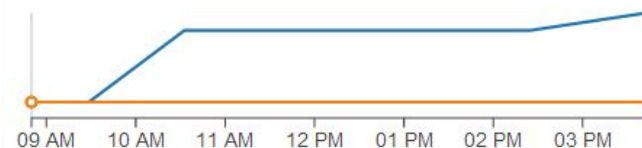
0.2 days

Blocker	1	
Critical	29	
Major	42	
Minor	27	
Info	0	

Apr 19, 2014

● Lines of code: 522

● Coverage: 56.6%



Key: org.treetek.sonar:navigation.example
Profile: [Sonar way](#) (version 1)

Events

All

Apr 19 2014

Version

1.0

Sonar Prerequisites

1. Java 8
2. DBMS (Mysql)
3. Create the sonar database and user
4. Download the sonarqube war file
5. Edit the sonar.properties file
6. Start the sonar.

<https://docs.sonarqube.org/display/SONAR/Requirements>

Installation of JAVA 8

Java:

```
#add-apt-repository ppa:webupd8team/java
```

```
#apt-get update
```

```
#apt-get install oracle-java8-installer
```

```
#update-alternatives --config java
```

Installation of MySQL

DB Mysql Installation:

```
# wget
```

```
https://dev.mysql.com/get/maysql/mysql-apt-config\_0.8.0-1\_all.deb
```

```
# dpkg -i mysql-apt-config_0.8.0-1_all.deb
```

```
# apt-get update
```

```
# apt-get install mysql-server -y
```

```
#mysql --version
```

```
#mysql -u root -p
```

```
>CREATE DATABASE sonar CHARACTER SET utf8 COLLATE utf8_general_ci;
```

```
>CREATE USER 'sonar' IDENTIFIED BY 'sonar' ;
```

```
>GRANT ALL ON sonar.* TO 'sonar'@'%' IDENTIFIED BY 'sonar';
```

```
>GRANT ALL ON sonar.* TO 'sonar'@'localhost' IDENTIFIED BY 'sonar';
```

```
>FLUSH PRIVILEGES;
```

```
# vi /etc/mysql/mysql.conf.d/mysqld.cnf
```

Change ip into private ip

Wq!

My Drive - Google DriveSonar install on VMWareSonarQubeEC2 Management ConsoleManage Jenkins [Jenkins]Java - How to login into

localhost:9000

AppsEC2 Management ConsoleMy Drive - Google Drive

sonarqubeDashboardsIssuesMeasuresRulesQuality ProfilesQuality GatesMore

Log in

67

Home

Welcome to SonarQube Dashboard

Since you are able to read this, it means that you have successfully started your SonarQube server. Well done!

If you have not removed this text, it also means that you have not yet played much with SonarQube. So here are a few pointers for your next step:

» Do you now want to run analysis on a project?

» Maybe start customizing dashboards?

» Or simply browse the complete documentation?

» If you have a question or an issue, please visit the Get Support page.

PROJECTS

QG	NAME	VERSION	LOC	BUGS	VULNERABILITIES	CODE SMELLS	LAST ANALYSIS
✓	Account Registration Webapp	1.0	273	0	1	4	18:32
✓	Account Registration Webapp	1.0	273	0	1	4	19:41

2 results

PROJECTS

Size: Lines of CodeColor: Coverage

SKRLogin

Account Registration Webapp

8:59 PM5/5/2018

Installation of SonarQube on Ubuntu 14

```
# https://sonarsource.bintray.com/Distribution/sonarqube/sonarqube-6.1.zip
```

```
# unzip sonar..
```

```
#mv sonar.. /opt/sonar
```

```
# cd /opt/sonar
```

```
#cd /conf
```

```
#vi sonar.properties
```

Soner.properties file on ubuntu 14

sonar.jdbc.username=sonar

sonar.jdbc.password=sonar

sonar.jdbc.url=jdbc:mysql://172.31.19.253:3306/sonar?useUnicode=true&characterEncoding=utf8&rewriteBatchedStatements=true&useConfigs=maxPerformance

sonar.web.host=54.255.243.196

sonar.web.context=/sonar

sonar.web.port=9000

wq!

Start the sonar services on Ubuntu14

```
# service mysql restart
```

```
# bin/linux-x86-64/sonar.sh start
```

```
# bin/linux-x86-64/sonar.sh status
```

```
#netstat -tulnp
```

Install on windows

1) Download Sonarqube 5.6.7 zip file and Extract into C:\Program Files

<https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-5.6.7.zip>

2) set the classpath SONAR_HOME

3) cd C:\Program Files\sonarqube-5.6.7\bin\windows-x86-64 with CMD

installMTservice.bat

startMTservice.bat

4) http://localhost:9000

Login user: admin password: admin

Integration of sonar two ways

- 1) with maven
- 2) with jenkins

Sonar with maven

<settings>

<profiles>

<profile>

<id>sonar</id>

<activation>

<activationByDefault>true</activationByDefault>

</activation>

<properties>

<!-- SERVER ON A REMOTE HOST -->

<sonar.host.url>http://localhost:8000</sonar.host.url>

run sonar from maven

`mvn compile`

`mvn package`

`mvn sonar:sonar`

Sonar Integrate with jenkins

- 1) `http://repo1.maven.org/maven2/org/codehaus/sonar/runner/sonar-runner-dist/2.4/sonar-runner-dist-2.4.zip`
- 2) set the classpath `SONAR_RUNNER_HOME`
- 3) Install SonarQube scanner plugin in jenkins server
- 4) Set the path "Sonarqube server" in configure system
- 5) Set the path "Sonarqube runner" in global tool configuration
- 6) Create a sonar job

Configure the JOB for Sonar

`sonar.login=admin`

`sonar.password=admin`

`sonar.projectKey=mysonarjob02`

`sonar.projectName=mysonarjob02`

`sonar.projectVersion=1.0`

`sonar.sources=.`

sonarqube build breaker

- 1) sonarqube build breaker plugin download

<https://github.com/adnovum/sonar-build-breaker>

- 2) C:\Program Files\sonarqube-5.6.6\extensions\plugins.
- 3) From the Services window, look for a service named SonarQube. Right-click on it and select Restart.
- 4) Creating quality gates

My Drive - Google D...Sonar install on VM...SonarQubeEC2 Management C...Dashboard [Jenkins]...Test Config [Jenkins]...java - How to login...

localhost:9000/quality_gates/show/3

AppsEC2 Management CoMy Drive - Google D

sonarqubeDashboardsIssuesMeasuresRulesQuality ProfilesQuality GatesAdministrationMore

Administrator

Quality GatesCreate

SonarQube wayDefault

TEST

test2

test2

RenameCopySe

72%
↑ 396 B/s
↓ 64 B/s

Conditions

Only project measures are checked against thresholds. Sub-projects, directories and files are ignored. [More](#)

METRIC	OVER LEAK PERIOD	OPERATOR	WARNING	ERROR
Complexity	<input type="checkbox"/>	is less than	1	2

Add Condition

Projects

WithWithoutAll

Search

Windows Taskbar

9:05 PM 5/5/2018