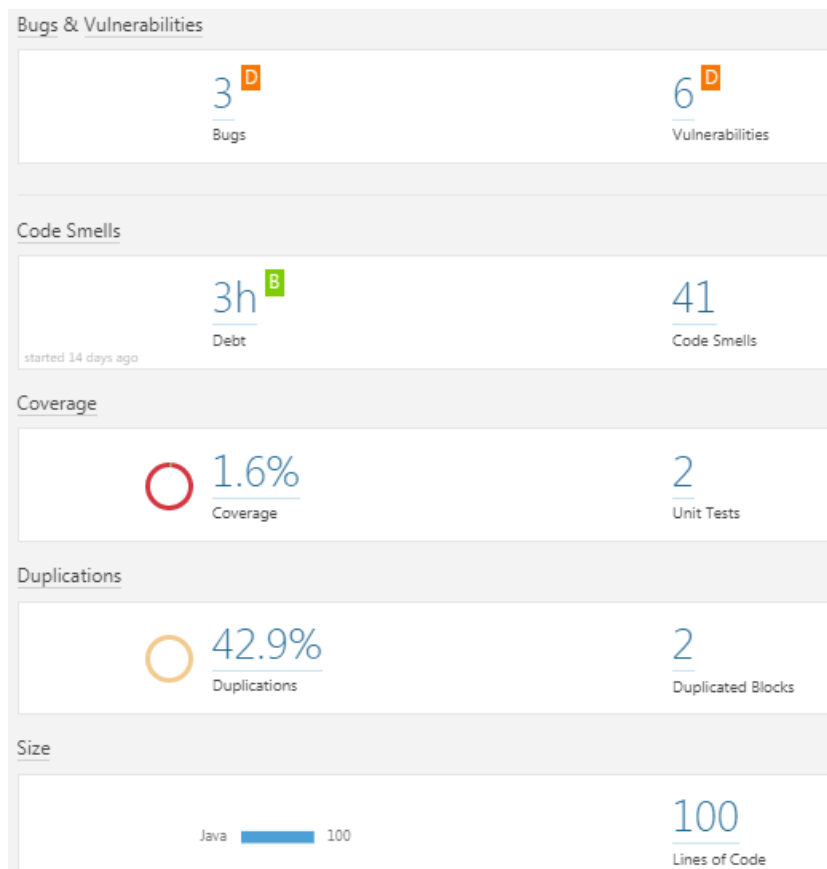


sonarqube

- It is a code review tool.
- Using for code quality checks.
- It analyzes your source code and displays the results on sonar dashboard.
- It provide reports on duplicated code, coding standards, unit tests, code coverage, complex code, potential bugs, comments and design and architecture.
- Stores the results into a relational database. By default embedded with H2 database.

Sonar dashboard looks like below.



Quality Profile:

- What are rules to apply during analysis.

Quality gateway:

- Add measurements/threshold for your project.

eg: Code coverage should be more than 80%. If not, fail the build

If have more 5 critical bugs in your code then fail the job.

Benefits:

- Less bugs, and is easier to understand and easier to maintain.
- The code will be more readable for new developers on the team.

Configuration:

Required Software's.

- Jdk-1.8 and maven 3.3 and later.
- Database. H2, MySQL, Oracle.
- Sonar host details as to provide in setting.xml (OR) pom.xml (OR) maven targets.

In setting.xml, Add sonar host profile under profiles sections.

<Profiles>

```
<profile>
  <id>sonar</id>
  <activation>
    <activeByDefault>true</activeByDefault>
  </activation>
  <properties>
    <!-- Optional URL to server. Default value is http://localhost:9000 -->
    <sonar.host.url>
      http://localhost:9000
    </sonar.host.url>
  </properties>
</profile>
</profiles>
```

In pom.xml also can provide host details.

```
<properties>
  <!-- SONAR SERVER ON A REMOTE HOST -->
  <sonar.host.url>http://ipaddr:9000</sonar.host.url>
</properties>
```

In Maven Targets

```
mvn sonar: sonar -Dsonar.host.url=http://localhost:9000/
```

Commands:

// To do Code analysis

```
mvn sonar: sonar
```

```
mvn sonar: sonar -Dsonar.login=**** -Dsonar.password=****
```

//To do code coverage

```
mvn clean org.jacoco:jacoco-maven-plugin:prepare-agent install sonar: sonar
```

Download Link:

<https://www.sonarqube.org/downloads/>

Download: SonarQube 6.0

Default Sonar URL:

<http://localhost:9000> // To Access SonarQube Web Console

Cred: admin/admin // Default Credentials

Installation:

Easy way is Using Docker image

- 1 yum update -y
- 2 yum install docker
- 3 docker info
- 4 service docker start
- 5 chkconfig docker on
- 7 docker --version
- 8 docker run -d --name sonarqube -p 9000:9000 sonarqube

In Linux

1. yum install wget -y
2. wget <http://repo.mysql.com/mysql-community-release-el7-5.noarch.rpm>
3. rpm -ivh mysql-community-release-el7-5.noarch.rpm
4. yum update -y
5. yum install mysql-server
6. service mysqld start
7. mysql -u root -p // bash not found
8. SHOW GLOBAL VARIABLES LIKE 'storage_engine'
9. CREATE USER 'sonarqube'@'localhost' IDENTIFIED BY 'password';
10. CREATE DATABASE sonarqube;
11. GRANT ALL PRIVILEGES ON sonarqube.* TO 'sonarqube'@'localhost';
12. Open /etc/my.cnf file and under [mysqld] section add the query cache parameter.

```
query_cache_size = 15M
```

13. cd /opt
14. wget <https://sonarsource.bintray.com/Distribution/sonarqube/sonarqube-6.0.zip>
15. yum install unzip -y
16. yum install java-1.8.0-openjdk -y
17. unzip sonarqube-6.0.zip
18. mv sonarqube-6.0 sonarqube
19. Open /opt/sonarqube/conf/sonar.properties, uncomment and edit the parameters as shown below. Change the password accordingly.

```
sonar.jdbc.username=sonarqube
sonar.jdbc.password=password
sonar.jdbc.url=jdbc:mysql://localhost:3306/sonarqube?useUnicode=true&characterEncoding=utf8&rewriteBatchedStatements=true&useConfigs=maxPerformance
```

20. By default, sonar will run on 9000. If you want on port 80 or any other port, change the following parameters for accessing the web console on that specific port

```
sonar.web.host=0.0.0.0
sonar.web.port=80
```

21. If you want to access sonarqube some path like <http://url:/sonar>, change the following parameter.

```
sonar.web.context=/sonar
```

22. cd /opt/sonarqube/bin/linux-x86-64
23. ./sonar.sh start

In Windows

Step 1:

Download SonarQube 6.0

<https://www.sonarqube.org/downloads/>

Feb. 17, 2017

Long Term Supported version, requires Java 8 to run, wraps together and Security, and always more Developer-Oriented Features.

* LTS stands for Long Term Support. Blocker and Critical issues will be fixed or backported to the LATEST version.

[Documentation](#) - [Screenshots](#) - [Release notes](#) - [More details](#)

DOWNLOAD LTS

MD5

[Show all versions](#)

DOWNLOAD LTS

MD5

SonarQube 6.2 - Dec 14, 2016

New Projects page, enhanced Issues pages, new landing page for non-rating support in Quality Gates

[Download \(md5\)](#) - [Documentation](#) - [Screenshots](#) - [Release notes](#)

SonarQube 6.1 - Oct 13, 2016

Redesign of the Settings domain with new UI and dedicated Web Service SonarQube

[Download \(md5\)](#) - [Documentation](#) - [Screenshots](#) - [Release notes](#)

SonarQube 6.0 - Aug 4, 2016

Tracking of file move/renaming, better management of quality profiles onboarding for new projects, CSRF fix for Java WS-based pages, Elasticsearch

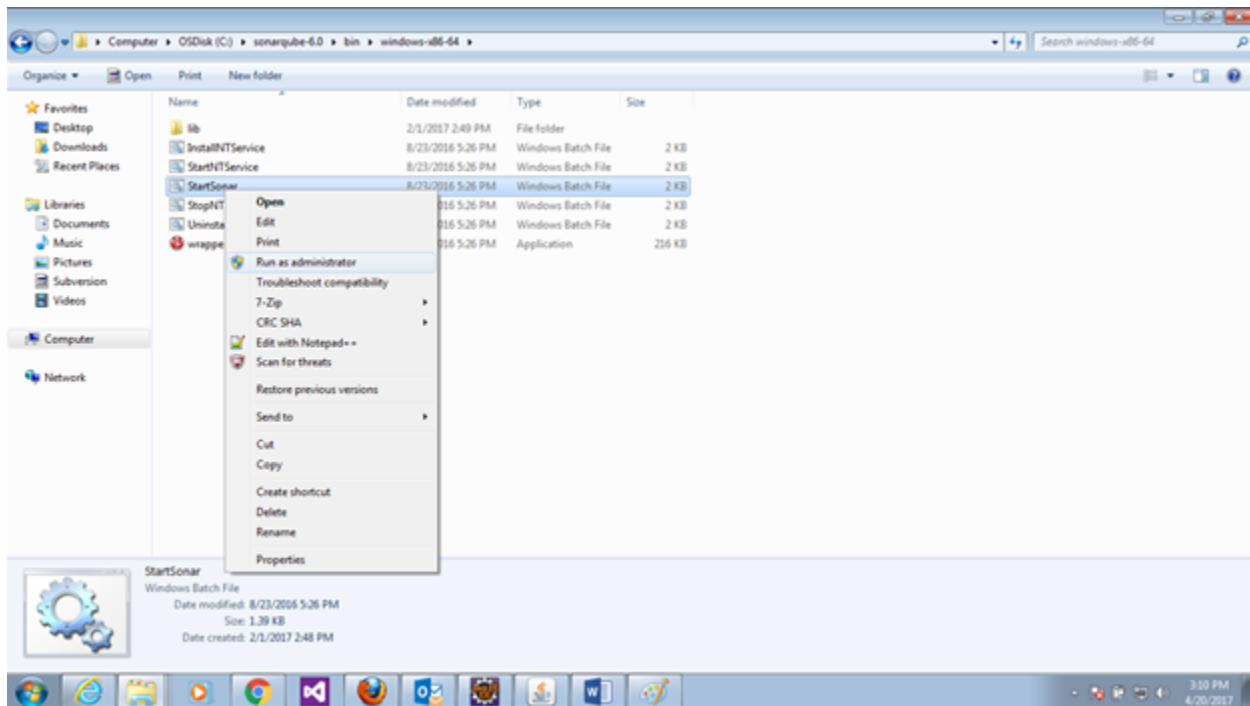
[Download \(md5\)](#) - [Documentation](#) - [Screenshots](#) - [Release notes](#)

Step 2:

Place in c drive

WINDOWS	4/11/2017 3:03 PM	File folder
Program Files (x86)	4/16/2017 10:54 AM	File folder
config	4/7/2017 3:11 PM	File folder
Program Files	4/7/2017 11:38 AM	File folder
Quarantine	3/21/2017 10:59 AM	File folder
Tue	2/28/2017 11:35 AM	File folder
hotfix	2/22/2017 11:16 AM	File folder
HashiCorp	2/20/2017 4:23 PM	File folder
Fri	2/10/2017 11:52 AM	File folder
AFOLODER	2/8/2017 5:21 PM	File folder
sonarqube-6.0	2/1/2017 2:51 PM	File folder
hook	1/13/2017 3:15 PM	File folder
Nexus	1/10/2017 9:54 PM	File folder
SVNREPOS	11/30/2016 12:21 ...	File folder
apache-ant-1.9.2	11/15/2016 12:54 ...	File folder
apache-tomcat-7.0.72	11/15/2016 12:53 ...	File folder
apache-maven-3.3.9	11/15/2016 12:51 ...	File folder
Users	11/14/2016 3:13 PM	File folder

Run StartSonar as administrator.



Step 3: access the url

<http://localhost:9000/admin/admin>

