

How to - Sonar installation setup steps

Sonar installation :

Pre-Requisites:

1. Operating System: RHEL/CentOS/Fedora and Ubuntu/Debian/Linux Mint
2. JDK 1.8
3. MYSQL 5.6 or 5.7

Installing database:

To install the MySQL server 5.6, follow the given below steps.

1. Login into the Server and download the yum repo rpm package.

wget <http://repo.mysql.com/mysql-community-release-el6-5.noarch.rpm>

2. Now install the downloaded rpm package.

rpm -ivh mysql-community-release-el6-5.noarch.rpm

3. Now install the mysql server by using yum command

yum install mysql-server

4. After installation start the mysql server

service mysqld start

5. Now login to mysql with root user and using below command

mysql -u root -p <random password

6. The very next step that needs to be done is to set mysql password for root user using below command.

mysql> SET PASSWORD FOR root@localhost = PASSWORD('password');

7. Create a sonarqube user and a database from MySQL CLI

mysql> CREATE USER 'sonarqube'@'localhost' IDENTIFIED BY 'password';

mysql> CREATE DATABASE sonarqube;

8. Grant all privileges on sonarqube database to the sonarqube user.

mysql> GRANT ALL PRIVILEGES ON sonarqube.* TO 'sonarqube'@'localhost';

Installing SonarQube

1. Download the latest sonarqube installation file

cd /opt

wget <https://sonarsource.bintray.com/Distribution/sonarqube/sonarqube-6.0.zip>

2. Unzip sonarqube source files and rename the folder.

unzip sonarqube-6.0.zip

3. 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`

By default, sonar will run on 9000.

1. Navigate to the start script directory.

`cd /opt/sonarqube6.0/bin/linux-x86-64`

2.start sonarquabe service

`./sonar.sh start`

3.Check the application status. If it is in running state, you can access the sonarqube dashboard using the DNS name or Ip address of your server.

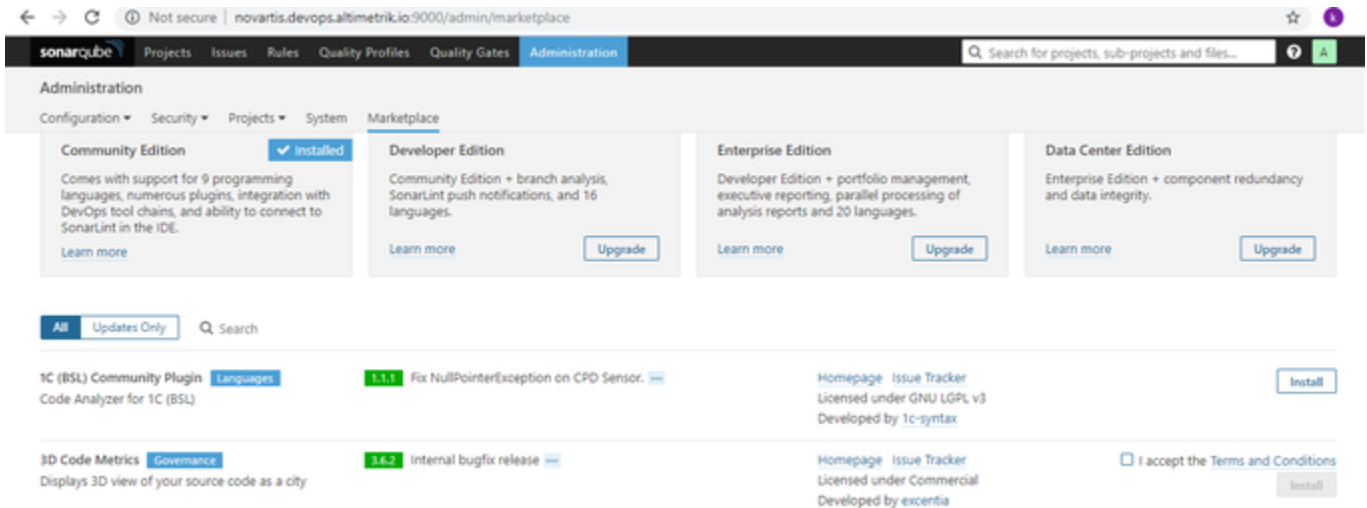
Install plugins in sonarquabe:

1. Login to the SonarQube dashboard and click on the "Administration" tab.



2.select marketplace tap under administration

Administration > Marketplace.



3. Find the plugin and Click on Install and wait for the download to be processed

Administration

Configuration ▾ Security ▾ Projects ▾ System Marketplace

Marketplace

Discover and install new features

Community Edition

✓ Installed

Comes with support for 9 programming languages, numerous plugins, integration with DevOps tool chains, and ability to connect to SonarLint in the IDE.

Learn more

Developer Edition

Community Edition + branch analysis, SonarLint push notifications, and 16 languages.

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Developer Edition + portfolio management, executive reporting, parallel processing of analysis reports and 20 languages.

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Data Center Edition

Enterprise Edition + component redundancy and data integrity.

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Upgrade

All Updates Only

Q bitbucket

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Bitbucket Authentication for SonarQube Integration

1.0 Initial release

Homepage Issue Tracker Licensed under GNU LGPL 3 Developed by SonarSource

Install

1 shown

A screenshot of the SonarQube Administration interface. At the top, there's a navigation bar with tabs: Configuration, Security, Projects, System, and Marketplace (which is underlined). Below this, a yellow notification banner spans the width of the page. It contains a left-pointing chevron icon, followed by the text "SonarQube needs to be restarted in order to" and a bulleted list item "• install 3 plugins". On the right side of the banner are two buttons: "Restart" (outlined in blue) and "Revert" (outlined in red), followed by a right-pointing chevron icon.

S.no	Plugin name	version	Why we need these plugin
1	SonarJava	4.15.0.1	SonarJava is a code analyzer for Java projects. It uses the most advanced techniques (pattern matching, dataflow analysis) to analyze code and find code smells, bugs and security vulnerabilities.
2	SonarScala	1.5.0	This plugin uses the scalariform library to parse the source code in a version independent way and integrates with Scoverage (code coverage), Scalastyle and Scapegoat (static code analysis).
3	SonarPython	1.8	SonarPython is a code analyzer for Python projects.
4	Gitlab	3.0.2	Analyzes pull requests, and notates issues as comments
5	Bitbucket	1.0	This plugin enables user authentication via Bitbucket

