

# 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.

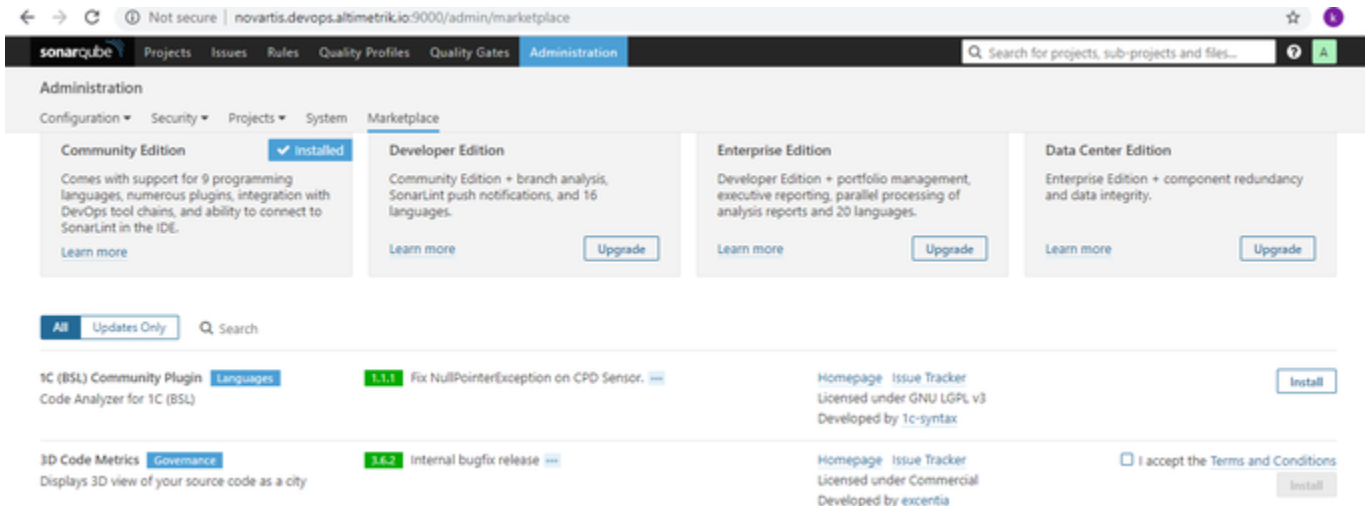
Install plugins in sonarquabe:

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

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**Bitbucket Authentication for SonarQube** 1.0 Initial release

[Integration](#)

Enables OAuth delegation to Bitbucket

Homepage Issue Tracker  
Licensed under GNU LGPL 3  
Developed by SonarSource

[Install](#)

1 shown

4. In order to install plugin it will ask to restart sonarquabe server.

Administration

Configuration ▾ Security ▾ Projects ▾ System Marketplace

◀ SonarQube needs to be restarted in order to

- install 3 plugins

[Restart](#) [Revert](#) ▶

Marketplace

## Sonar plugins versions

| 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    | Gittlab     | 3.0.2    | Analyzes pull requests, and notates issues as comments  |
| 5    | Bitbucket   | 1.0      | This plugin enables user authentication via Bitbucket   |

