

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.

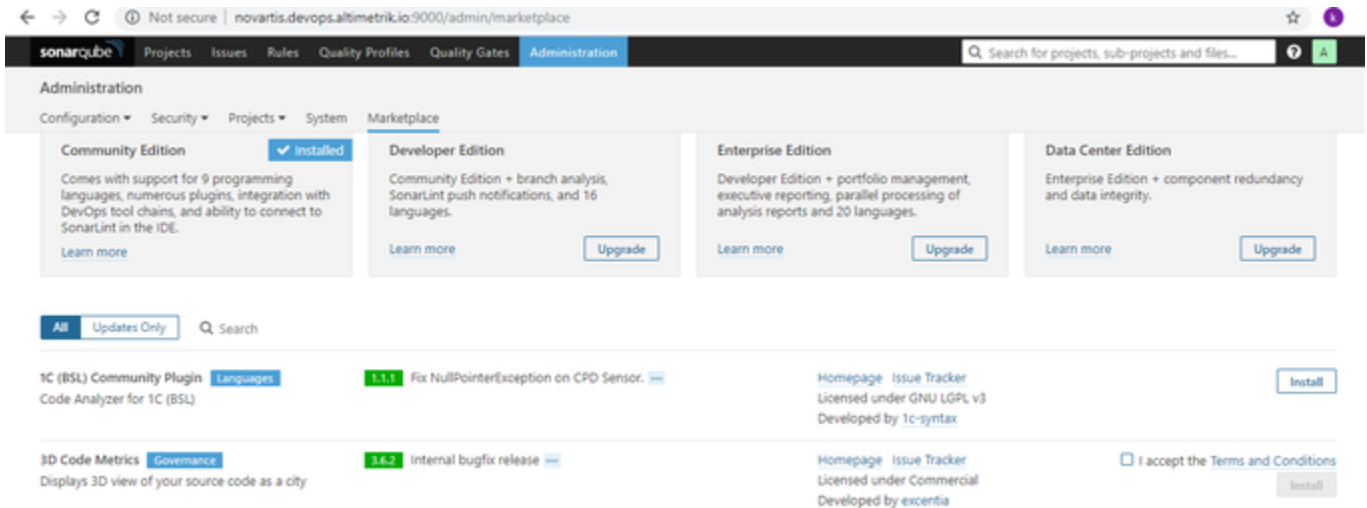
Install plugins in sonarquabe:

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

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

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

