

Install and Configure SonarQube

Setup SonarQube MYSQL Database

1. `sudo yum install wget -y`
2. `wget http://repo.mysql.com/mysql-community-release-el7-5.noarch.rpm`
3. `sudo rpm -ivh mysql-community-release-el7-5.noarch.rpm`
4. `sudo yum update -y`
5. `sudo yum install mysql-server`
6. `sudo systemctl start mysqld`
7. `sudo mysql_secure_installation`
 - a. `mysql -u root -p`
 - b. `SHOW GLOBAL VARIABLES LIKE 'storage_engine'`
 - c. `CREATE USER 'sonarqube'@'localhost' IDENTIFIED BY 'password'`
 - d. `CREATE DATABASE sonarqube;`
 - e. `GRANT ALL PRIVILEGES ON sonarqube.* TO 'sonarqube'@'localhost';`

Setup SonarQube Web Server

1. Download the latest sonarqube installation file to /opt folder. You can get the latest download link from here.
<http://www.sonarqube.org/downloads/>
 - a. `cd /opt`
 - b. `sudo wget https://sonarsource.bintray.com/Distribution/sonarqube/sonarqube-6.0.zip`
2. Install unzip and Java
 - a. `sudo yum install unzip -y`
 - b. `sudo yum install java-1.8.0-openjdk -y`
3. Unzip sonarqube source files and rename the folder
 - a. `sudo unzip sonarqube-6.0.zip`
 - b. `mv sonarqube-6.0 sonarqube`

4. Open /opt/sonarqube/conf/sonar.properties, uncomment and edit the parameters as shown below. Change the password accordingly.
 - a. sonar.jdbc.username=sonarqube
 - b. sonar.jdbc.password=password
 - c. sonar.jdbc.url=jdbc:mysql://localhost:3306/sonarqube?useUnicode=true&characterEncoding=utf8&rewriteBatchedStatements=true&useConfigs=maxPerformance

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
```

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

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

Start SonarQube Server

1. To start sonar service, you need to use the script in sonarqube bin directory.
 - a. Navigate to the start script directory
 - i. cd /opt/sonarqube/bin/linux-x86-64
2. Start the sonarqube service.
 - a. sudo ./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.
 - a. sudo ./sonar.sh start