SonarQube Installation Script Documentation

1) Before executing the script, we need to make it executable by running following command on linux command prompt

   chmod +x $FILENAME.sh

2) Now execute the script by executing the command as below-

   ./$FILENAME.sh $MYSQLUSERNAME $PASSWORD

3) It will install the latest versions of java, mysql and sonar from the source sites'. First it will check if java is installed or not followed by mysql and then the sonar.

4) While executing the script provide **mysql username** and **password** if the database already exists. If the database doesnot exist and you want the default credentials then the script can do it for you(refer step 6) or you may provide username and password of your choice while executing the script and it will install mysql with your provided credentials. If the database already exist and you don't provide your username and password then the script will ask you the credentials at runtime.

5) For **Centos** (RPM based system), default username is **root** and password is **redhat**. For **Ubuntu** (Debian based system), default **username** is **root** and **password** is **password.**

6) After the sonarQube and all its dependencies are installed, run the sonar service by executing the following command

   service sonar start

7) You can check the log files of sonar by executing the following command on command prompt

   tail –f /opt/sonar/logs/sonar.log

   When it shows that the app is up, it means your sonar is running.

   Note:- Usually it takes some time to show the sonar on dashboard. Hence you check the log files of sonar by above step number 6.

8) Now create a sonar-project.properties file(refer below for sonar-project.properties) any where in the system and keep your project files in the same location. Now run the sonar runner by executing the command "sonar-runner" on the command prompt and analyse the project.

The basic contents of the sonar-project.properties file are as below-(this is for php project)

```
# Required metadata
sonar.projectKey=sonar
sonar.projectName=PHP project analyzed with the SonarQube Runner
sonar.projectVersion=1.0

# Comma-separated paths to directories with sources (required)
sonar.sources=src

# Language
sonar.language=php

# To deactivate features related to unit tests execution and
coverage
sonar.dynamicAnalysis=false

# Encoding of the source files
sonar.sourceEncoding=UTF-8
```

1) sonar.projectkey->can be any value
2) sonar.projectName-> is your poroject name
3) sonar.projectVersion->is you release version and be any value of your choice
4) sonar.sources->is your source code file location
5) sonar.language->is your source code language used

These are the basic requirements of the sonar-project.properties.