**SonarQube Local Setup**

**Step 1: Download Sonarqube:**

<https://www.sonarqube.org/downloads/>

**Step 2: Download SonarScanner:**  
  
<https://docs.sonarqube.org/latest/analysis/scan/sonarscanner/>

**Step 3: Start Sonar Server:**   
 - ./path-to-sonar-installation/bin/**<operating-system>**/sonar.sh console

- Operating system values are **windows-x86-64**, **macosx-universal-64**, **linux-x86-64**

**Step 4: Open Sonar console :**

* [http://localhost:9000/](http://localhost:9000/projects/create)
* Use **admin** as username and password.

**Step 5: Add Project to sonar console:** - <http://localhost:9000/projects/create>

* This will provide us the configuration for running sonar scan. (ref following)

- Configuration example:

sonar-scanner \

-Dsonar.projectKey=Carstart \

-Dsonar.sources=. \

-Dsonar.host.url=http://localhost:9000 \

-Dsonar.login=2290a8bdca92bc16b2b9946c389ddd369e5a0d92

**Step 6: Authenticate project to sonar:**  
 This is IDE specific. For pycharm we need to install SonarQube 2.8+ and add project and authenticate it with token.

**Step 6** :**Run Sonar Scanner:**

* Add sonar scanner bin directory path to system system environment variable. Ex : export PATH=$PATH:/home/kiwitech/Downloads/sonar-scanner-cli-4.0.0.1744-linux/sonar-scanner-4.0.0.1744-linux/bin/
* Run config in terminal from project directory.(ex refer below).  
   sonar-scanner \

-Dsonar.projectKey=Carstart \

-Dsonar.sources=. \

-Dsonar.host.url=http://localhost:9000 \

-Dsonar.login=2290a8bdca92bc16b2b9946c389ddd369e5a0d92

**Step 7: Enable Quality Profiles:**

* Click quality profile tab in sonar console..
* Go to project language, click dropdown on right and click extend.
* Provide name of your profile.
* Your new profile can be seen along with your language profile. You need to activate rules for this profile by clicking activate rules in the dropdown
* Now go to administration tab and select your new profile created in quality profile settings.
* Go to root administration, click marketplace and add suitable plugins.
* Restart server

**Step 8: Exclude Directories:**

* Go to administration tab of your project.
* Click analysis scope.
* Add exclusion directories like migrations/\*\*,abc/\*\* in CSV format