**Downloads Sonarqube and Sonar Scanner:**

* LTS version of sonarqube (<https://www.sonarqube.org/downloads>)
* Download sonar-scanner based on your platform (<https://docs.sonarqube.org/latest/analysis/scan/sonarscanner/>) After the above process, Add the sonar scanner path to environment variables.

**Run Sonarqube server:**

* To start the sonar server open cmd or terminal and set sonarqube bin folder path and choose the platform and run the following command. Examples :
* #For Windows(cmd):
* C:\sonarqube\bin\windows-x86-64>StartSonar.bat
* #For other OS (terminal):

C:\sonarqube\bin\[OS]>sonar.sh

Once the sonar server up successfully, then Log in to [http://localhost:9000](http://localhost:9000/) with System Administrator credentials (login=admin, password=admin).

**Creating and Analysing a Project:**

* Go to create a new project and enter the project key, and display name details. (+ sign on the top right side).
* Provide a token by either generating a token or using an existing token (find existing token on <http://localhost:9000/account/security> page).
* Run analysis on the project by selecting the programming language used in the repository and your system OS.
* As we already downloaded and set up the sonar-scanner path, No need to download it again.
* Now copy the displaying command and Go to your project path and Run the copied command. It looks like below:

sonar-scanner.bat -D"sonar.projectKey=rtetre" -D"sonar.sources=."-D"sonar.host.url=http://localhost:9000" -D"sonar.login=e932dxxxxx9a8e5c7903xxxxxx96928xxxxxxx"

After the analysis is done, you can either browse the provided link to see the sonar report directly [Ex.: http://localhost:9000/dashboard?id=] or go to the project section to see the newly generated sonar report of your project.

If you want to exclude some files from analysis(like test files), then go to the administration section and navigate to the General setting, select the programming language used, and set a list of file path patterns to be excluded from the analysis.

Now re-run the analysis command given above for an updated sonar report.

**The goal of SonarQube is to empower developers first and to grow an open community around the quality and security of code**