

Jenkins Integration with SonarQube

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SonarQube: SonarQube is an open-source platform developed by SonarSource for continuous inspection of code quality to perform automatic reviews with static analysis of code to detect bugs, code smells, and security vulnerabilities on 20+ programming languages.

We can integrate Jenkins with SonarQube to make things automated.

In this experiment we will be using SonarQube for static code analysis.

We will use our maven project and then do it's code analysis using SonarQube.

Make sure your Jenkins is up and running

```
C:\Windows\System32\cmd.exe - java -jar jenkins.war
Microsoft Windows [Version 10.0.18362.1082]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Neha\Downloads>java -jar jenkins.war
Running from: C:\Users\Neha\Downloads\jenkins.war
webroot: $user.home/.jenkins
2020-10-08 14:11:54.804+0000 [id=1] INFO org.eclipse.
2020-10-08 14:11:55.382+0000 [id=1] INFO winstone.Log
2020-10-08 14:11:55.580+0000 [id=1] WARNING o.e.j.s.hand
2020-10-08 14:11:55.847+0000 [id=1] INFO org.eclipse
```

In Jenkins, SonarQube plugin installation

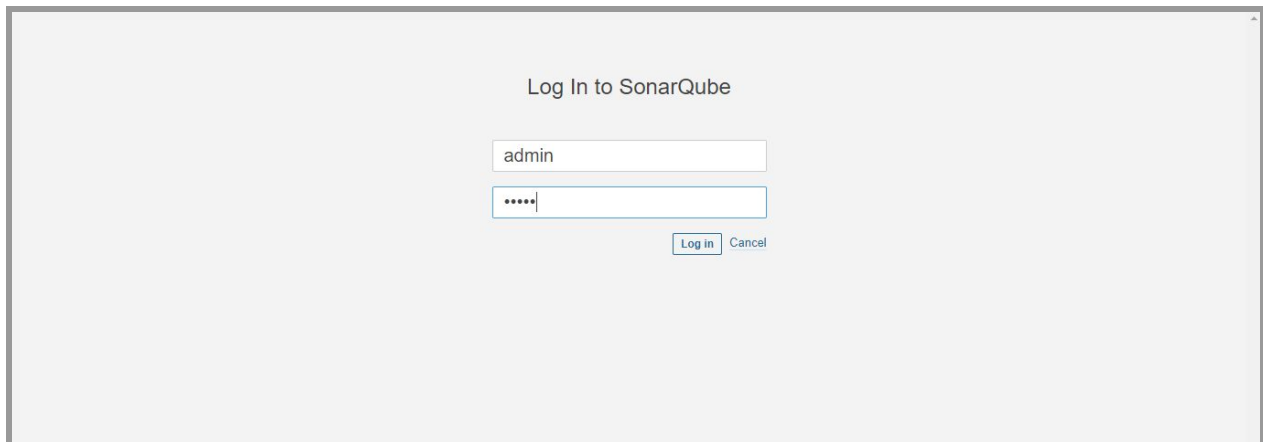


**Move to your SonarQube folder and then open cmd there.
And run command StartSonar.bat**

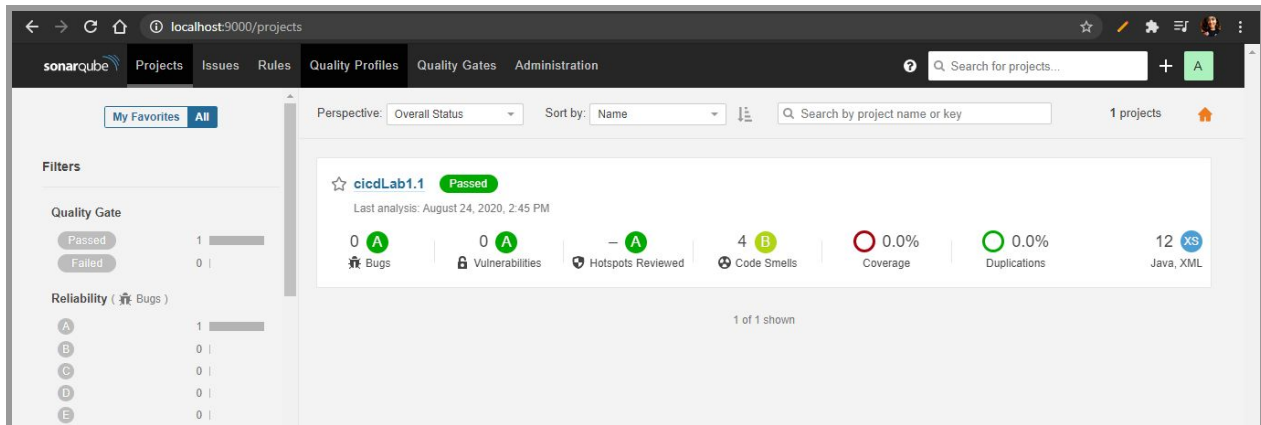
```
SonarQube
Microsoft Windows [Version 10.0.18362.1082]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Neha\Downloads\sonarqube-8.4.1.35646\sonarqube-8.4.1.35646\bin\windows-x86-64>StartSonar.bat
wrapper | --> Wrapper Started as Console
wrapper | Launching a JVM...
jvm 1 | Wrapper (Version 3.2.3) http://wrapper.tanukisoftware.org
jvm 1 | Copyright 1999-2006 Tanuki Software, Inc. All Rights Reserved.
jvm 1 |
```

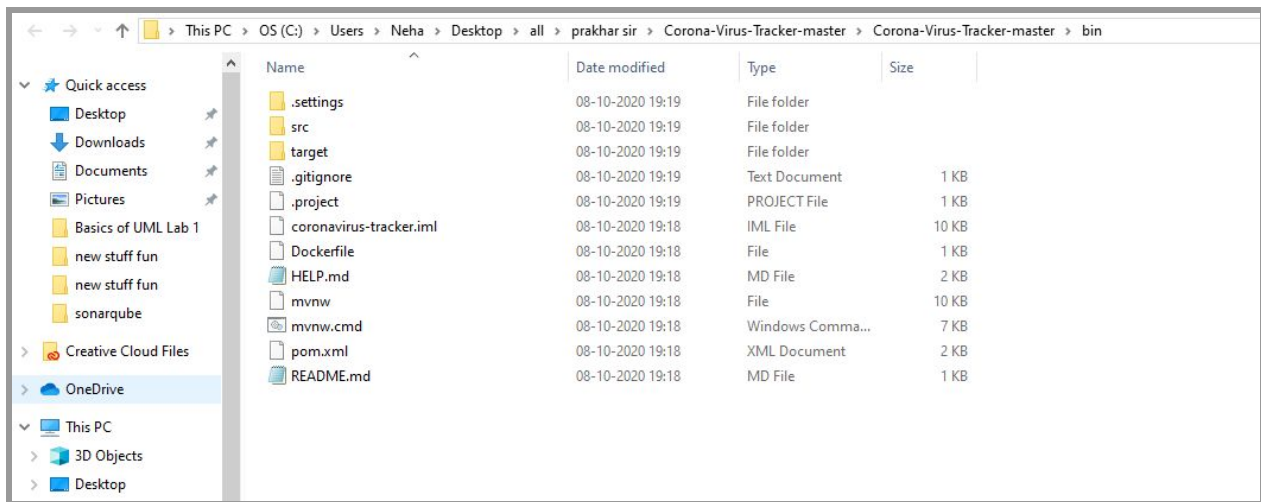
**Go to localhost:9000
Default id & pass is admin**



You can see a screen like without any project



Move to your maven project folder



Run this command

```
mvn clean install sonar:sonar -Dsonar.host.url=http://localhost:9000  
-Dsonar.analysis.mode=publish
```

```

[INFO] -----< io.javabrainz:coronavirus-tracker >-----
[INFO] Building coronavirus-tracker 0.0.1-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO] --- maven-clean-plugin:3.1.0:clean (default-clean) @ coronavirus-tracker ---
[INFO] Deleting C:\Users\Neha\Desktop\all\prakhar sir\Corona-Virus-Tracker-master\Corona-Virus-Tracker-master\bin\target
[INFO] --- maven-resources-plugin:3.1.0:resources (default-resources) @ coronavirus-tracker ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Copying 0 resource
[INFO] Copying 1 resource
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ coronavirus-tracker ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-resources-plugin:3.1.0:testResources (default-testResources) @ coronavirus-tracker ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory C:\Users\Neha\Desktop\all\prakhar sir\Corona-Virus-Tracker-master\Corona-Virus-Tracker-master\b
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ coronavirus-tracker ---
[INFO] Nothing to compile - all classes are up to date
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ coronavirus-tracker ---

```

Build Success

```

rt
[INFO] More about the report processing at http://localhost:9000/api/ce/task?id=
[INFO] Analysis total time: 14.869 s
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----

```