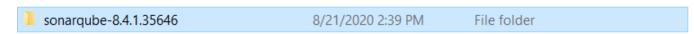
Experiment No. 4

Static Code Analysis using SonarQube

Download sonarqube:

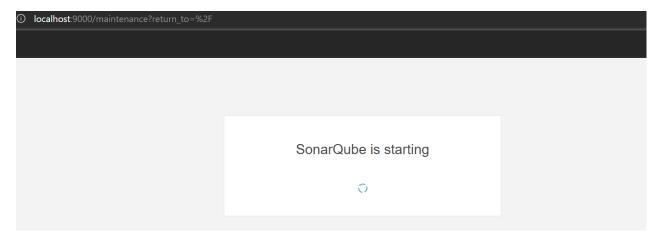


Start sonarqube:

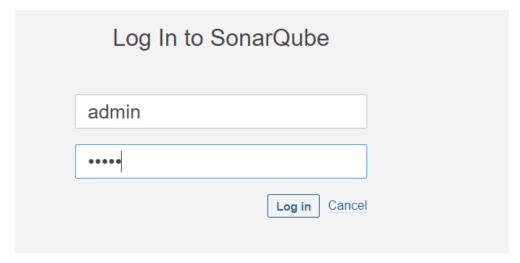
```
D:\A_semester_5\CICD\sonarqube-8.4.1.35646\bin\windows-x86-64>StartSonar.bat
wrapper | --> Wrapper Started as Console
wrapper | Launching a JVM...
jvm 1 | Wrapper (Version 3.2.3) http://wrapper.tanukisoftware.org
```

Default port for sonarqube is 9000

Open http://localhost:9000 on browser:



Login to sonarqube admin user:



Create maven project and write code:

```
DITORS
                              src > main > java > integration > 🏮 sonar_test1.java
                                      package integration;
             <u>†</u> † ひ 🗗
                                      public class sonar test1
ain \ java \ integration
onar_test1.java
                                          private int n=10;
                                 6
                                          int num=30;
                                          public void f1(int n1)
.xml
                                              n1=20:
                                              public static void main(String[] args) {
                                                   System.out.println("Hello sonarqube!");
                                                   System.out.println("jenkins!");
```

Run command "mvn clean install sonar:sonar -Dsonar.host.url=http://my.server:9000/sonar -Dsonar.analysis.mode=publish"

```
\A_semester_5\CICD\CICD LAB\sonarqube\CICD_Sonarqube>mvn clean install sonar:sonar -Dsonar.host.url=http://localhost:9000 -Dsonar.analysis.mode=publish
INFO] Scanning for projects...
      INFO] Building CICD_Lab4 0.0.1-SNAPSHOT
     -----[ jar ]------
      --- maven-clean-plugin:2.5:clean (default-clean) @ CICD_Lab4 ---
INFO] Deleting D:\A semester 5\CICD\CICD LAB\sonarqube\CICD Sonarqube\target
      --- maven-resources-plugin:2.6:resources (default-resources) @ CICD_Lab4 ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory D:\A_semester_5\CICD\CICD LAB\sonarqube\CICD_Sonarqube\src\main\resources
     --- maven-compiler-plugin:3.1:compile (default-compile) @ CICD_Lab4 ---
 INFO] No sources to compile
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ CICD_Lab4 ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
INFO] skip non existing resourceDirectory D:\A_semester_5\CICD\CICD LAB\sonarqube\CICD_Sonarqube\src\test\resources
INFO] --- maven-compiler-plugin:3.1:testCompile (default-testCompile) @ CICD_Lab4 ---
INFO] No sources to compile
INFO] --- maven-surefire-plugin:2.12.4:test (default-test) @ CICD Lab4 ---
INFO] No tests to run.
     --- maven-jar-plugin:2.4:jar (default-jar) @ CICD_Lab4 ---
[WARNING] JAR will be empty - no content was marked for inclusion!
[INFO] Building jar: D:\A_semester_5\CICD\CICD LAB\sonarqube\CICD_Sonarqube\target\CICD_Lab4-0.0.1-SNAPSHOT.jar
              en-install-plugin:2.4:install (default-install) @ CICD_Lab4 ---
INFO] Installing D:\A semester 5\CICD\CICD LAB\sonarqube\CICD Sonarqube\target\CICD Lab4-0.0.1-SNAPSHOT.jar to C:\Users\akkan\.m2\repository\CICD Lab4\CICD Lab4\0.0.1-SNAPSHOT\
[INFO] Installing D:\A_semester_5\CICD\CICD LAB\sonarqube\CICD_Sonarqube\pom.xml to C:\Users\akkan\.m2\repository\CICD_Lab4\CICD_Lab4\0.0.1-SNAPSHOT\CICD_Lab4-0.0.1-SNAPSHOT.pom
 INFO] Building CICD_Lab4 0.0.1-SNAPSHOT
INFO] -----[ jar ]-----
     --- sonar-maven-plugin:3.7.0.1746:sonar (default-cli) @ CICD_Lab4 ---
INFO] User cache: C:\Users\akkan\.sonar\cache
INFO] SonarQube version: 8.4.1
INFO] Default locale: "en_US", source code encoding: "windows-1252" (analysis is platform dependent)
[WARNING] SonarScanner will require Java 11 to run starting in SonarQube 8.x
 INFO] Load global settings
INFO] Load global settings (done) | time=296ms
 INFO] Server id: BF41A1F2-AXQXNybpFq_oIfYetul
     User cache: C:\Users\akkan\.sonar\cache
  IFO1 Load/download plugins
```

Code analysis on sonarqube:

