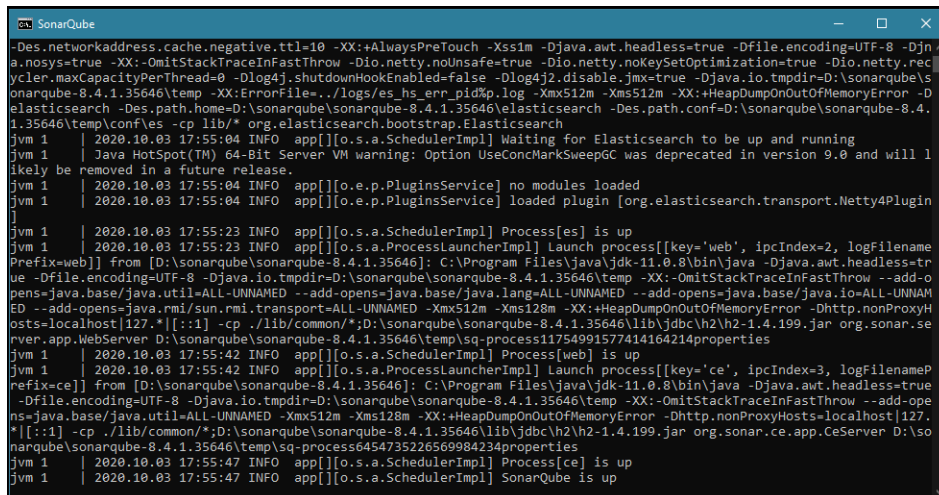


Sumyak Jain, 500068360, R171218106

Experiment No 4

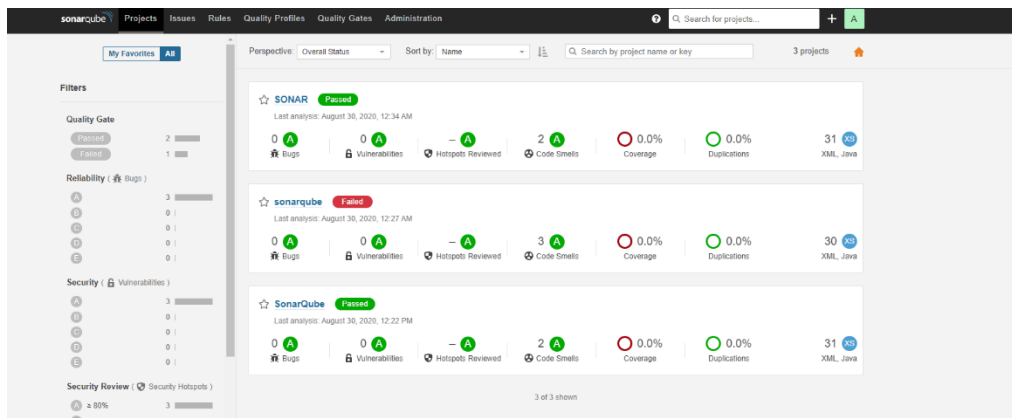
Static Code Analysis using SonarQube

STEP 1) open your CMD and open StartSonar.bat file

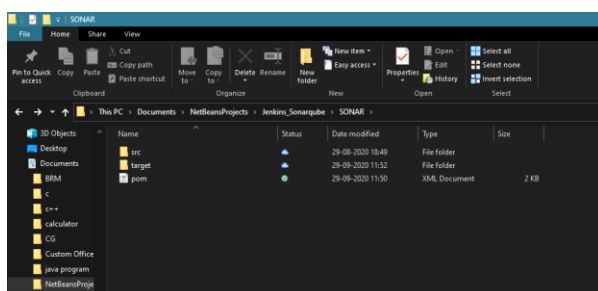


```
sonarqube> .\StartSonar.bat
Des.networkaddress.cache.negative.ttl=10 -XX:+AlwaysPreTouch -Xss1m -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djna.nosys=true -XX:-OmitStackTraceInFastThrow -Dio.netty.noUnsafe=true -Dio.netty.noKeySetOptimization=true -Dio.netty.recycler.maxCapacityPerThread=0 -Dlog4j.shutdownHookEnabled=false -Dlog4j2.disable.jmx=true -Djava.io.tmpdir=D:\sonarqube\sonarqube-8.4.1.35646\temp -XX:ErrorFile=.../logs/es_hs_err_pid%p.log -Xmx512m -Xms512m -XX:+HeapDumpOnOutOfMemoryError -Delasticsearch -Des.path.home=D:\sonarqube\sonarqube-8.4.1.35646\elasticsearch -Des.path.conf=D:\sonarqube\sonarqube-8.4.1.35646\temp\conf\es -cp lib/* org.elasticsearch.bootstrap.Elasticsearch
jvm 1 | 2020.10.03 17:55:04 INFO app[o.s.a.SchedulerImpl] Waiting for Elasticsearch to be up and running
jvm 1 | Java HotSpot(TM) 64-Bit Server VM warning: Option UseConcMarkSweepGC was deprecated in version 9.0 and will likely be removed in a future release.
jvm 1 | 2020.10.03 17:55:04 INFO app[o.e.p.PluginsService] no modules loaded
jvm 1 | 2020.10.03 17:55:04 INFO app[o.e.p.PluginsService] loaded plugin [org.elasticsearch.transport.Netty4Plugin]
jvm 1 | 2020.10.03 17:55:23 INFO app[o.s.a.SchedulerImpl] Process[es] is up
jvm 1 | 2020.10.03 17:55:23 INFO app[o.s.a.ProcessLauncherImpl] Launch process[[key='web', ipcIndex=2, logFilenamePrefix=web]] from [D:\sonarqube\sonarqube-8.4.1.35646]: C:\Program Files\java\jdk-11.0.8\bin\java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=D:\sonarqube\sonarqube-8.4.1.35646\temp -XX:-OmitStackTraceInFastThrow --add-opens=java.base/java.util=ALL-UNNAMED --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.io=ALL-UNNAMED --add-opens=java.rmi/sun.rmi.transport=ALL-UNNAMED -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.nonProxyHosts=localhost[127.*][:1] -cp ./lib/common/*;D:\sonarqube\sonarqube-8.4.1.35646\lib\jdbc\h2\h2-1.4.199.jar org.sonar.server.app.WebServer D:\sonarqube\sonarqube-8.4.1.35646\temp\sq-process11754991577414164214properties
jvm 1 | 2020.10.03 17:55:42 INFO app[o.s.a.SchedulerImpl] Process[web] is up
jvm 1 | 2020.10.03 17:55:42 INFO app[o.s.a.ProcessLauncherImpl] Launch process[[key='ce', ipcIndex=3, logFilenamePrefix=ce]] from [D:\sonarqube\sonarqube-8.4.1.35646]: C:\Program Files\java\jdk-11.0.8\bin\java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=D:\sonarqube\sonarqube-8.4.1.35646\temp -XX:-OmitStackTraceInFastThrow --add-opens=java.base/java.util=ALL-UNNAMED -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.nonProxyHosts=localhost[127.*][:1] -cp ./lib/common/*;D:\sonarqube\sonarqube-8.4.1.35646\lib\jdbc\h2\h2-1.4.199.jar org.sonar.ce.app.CeServer D:\sonarqube\sonarqube-8.4.1.35646\temp\sq-process6454735226569984234properties
jvm 1 | 2020.10.03 17:55:47 INFO app[o.s.a.SchedulerImpl] Process[ce] is up
jvm 1 | 2020.10.03 17:55:47 INFO app[o.s.a.SchedulerImpl] SonarQube is up
```

STEP 2) open your SonarQube dashboard at localhost:9000 on your browser



STEP 3) make maven project and know its location



STEP 4) go to that location and use command

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

```
Administrator Command Prompt
Microsoft Windows [Version 10.0.18363.1802]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32\cmd C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR
C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR>mvn clean install sonar:sonar -Dsonar.host.url=http://localhost:9000 -Dsonar.analysis.mode=publish
[INFO] Scanning for projects...
[INFO]
[INFO] -----> com.mycompany:SONAR <-----
[INFO] Building SONAR 1.0-SNAPSHOT
[INFO] -----> [ jar ]<-----
[WARNING] The artifact org.codehaus.mojo:sonar-maven-plugin:pom:3.4.0.905 has been relocated to org.sonarsource.scanner.maven:sonar-maven-plugin:3.4.0.905
[INFO]
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ SONAR ---
[INFO] Deleting C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR\target
[INFO]
[INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ SONAR ---
[WARNING] Using platform encoding (Cp1252 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR\src\main\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ SONAR ---
[INFO] Changes detected - recompiling the module!
[WARNING] File encoding has not been set, using platform encoding Cp1252, i.e. build is platform dependent!
[INFO] Compiling 1 source file to C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR\target\classes
[INFO]
[INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ SONAR ---
```

BUILD SUCCESS

```
Administrator Command Prompt
[INFO] Sensor Java CPD Block Indexer
[INFO] Sensor Java CPD Block Indexer (done) | time=10ms
[INFO] SCM Publisher SCM provider for this project is: git
[INFO] SCM Publisher 2 source files to be analyzed (done) | time=62ms
[INFO] SCM Publisher #/2 source files have been analyzed (done) | time=62ms
[WARNING] Missing blame information for the following files:
[WARNING]   + src/main/java/jen/test.java
[WARNING]   + pom.xml
[WARNING] This may lead to missing/broken features in SonarQube
[INFO] CPD Executor 1 file had no CPD blocks
[INFO] CPD Executor Calculating CPD for 0 files
[INFO] CPD Executor CPD calculation finished (done) | time=0ms
[INFO] Analysis report generated in 46ms, dir size=85 KB
[INFO] Analysis report compressed in 16ms, zip size=13 KB
[INFO] Analysis report uploaded in 7ms
[INFO] ANALYSIS SUCCESSFUL, you can browse http://localhost:9000/dashboard?id=com.mycompany:SONAR
[INFO] Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
[INFO] More about the report processing at http://localhost:9000/api/ce/task?id=AXtugPxtx804o89-dri
[INFO] Analysis total time: 0.644 s
[INFO] -----> BUILD SUCCESS <-----
[INFO] Total time: 10.645 s
[INFO] Finished at: 2020-10-03T18:20:10+05:30
[INFO]
[WARNING] The requested profile "profile1" could not be activated because it does not exist.
C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR>
C:\Users\GAURAV\OneDrive\Documents\NetBeansProjects\Jenkins_Sonarqube\SONAR>
```

STEP 5) now you can see your project has analysed in SonarQube

