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T11-15

Assignment no. 6

Aim: To understand the concept of sonarqube and sonar Scanner.

Theory:

Download SonarQube and Sonar Scanner

The image shows two screenshots from a web browser. The top screenshot is the SonarQube download page, which features a navigation bar with links to Product, What's New, Documentation, and Community. The main heading is "Download SonarQube" with the subtitle "The leading product for Code Quality and Security". Below this, there are four columns representing different editions: Community Edition (Free & Open Source), Developer Edition, Enterprise Edition, and Data Center Edition. Each column has a "Download" button and a list of features. The bottom screenshot is the SonarScanner documentation page, showing the "Configuring your project" section. It includes a table with download links for various operating systems and a code block for the sonar-project.properties file.

Download SonarQube
The leading product for Code Quality and Security
HELPING DEVS SINCE 2008

Version: 9.1 | Release: September 2021 | Getting Started | Release Notes | Upgrade Notes | Available From DockerHub

Community EDITION	Developer EDITION	Enterprise EDITION	Data Center EDITION
Used and loved by 200,000+ companies FREE & OPEN SOURCE Download for free	Built for developers by developers Download	Designed to meet Enterprise Requirements Download	Designed for High Availability Download
All the following features: <ul style="list-style-type: none">✓ Static code analysis for 15 languages<ul style="list-style-type: none">Java, JavaScript, C#, TypeScript, KotlinRuby, Go, Scala, PHP, Python, JSPSwift, C++, C, C++11, C++14, C++17	Community Edition plus: <ul style="list-style-type: none">✓ C, C++, Obj-C, Swift, ABAP, T-SQL, PL/SQL support✓ Detection of Injection Flaws	Developer Edition plus: <ul style="list-style-type: none">✓ Portfolio Management & PDF Executive Reports✓ Project PDF reports	Enterprise Edition plus: <ul style="list-style-type: none">✓ Component redundancy✓ Data resiliency✓ Horizontal Scalability

SonarScanner

By SonarSource | GNU LGPL 3 | Issue Tracker

4.6.2 [Show more versions](#)
2021-05-07
Update dependencies, bug fix

[Linux 64-bit](#) | [Windows 64-bit](#) | [Mac OS X 64-bit](#) | [Docker](#)
[Any \(Requires a pre-installed JVM\)](#) | [Release notes](#)

The SonarScanner is the scanner to use when there is no specific scanner for your build system.

Configuring your project
Create a configuration file in your project's root directory called sonar-project.properties

```
# must be unique in a given SonarQube instance
sonar.projectKey=project

# --- optional properties ---

# defaults to project key
#sonar.projectName=My project
# defaults to 'not provided'
#sonar.projectVersion=1.0

# Path is relative to the sonar-project.properties file. Defaults to .
#sonar.sources=.
```

On this page
[Configuring your project](#)
[Running SonarScanner from the zip file](#)
[Running SonarScanner from the Docker image](#)
[Scanning C, C++, or ObjectiveC Projects](#)
[Sample Projects](#)
[Alternatives to sonar-project.properties](#)
[Alternate Analysis Directory](#)
[Advanced Docker Configuration](#)
[Troubleshooting](#)

After downloading, set Environment Variables. Add “sonarqube-9.1.0.47736\bin” to Path.

Open command prompt. Run commands:

- cd “sonarqube-9.1.0.47736\bin\windows-x86-64”
- StartSonar.bat

```
SonarQube
Microsoft Windows [Version 10.0.19043.1237]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Priyansi>cd "C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\bin\windows-x86-64"

C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\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 |
jvm 1 | 2021.09.29 13:50:37 INFO app[[o.s.a.AppFileSystem] Cleaning or creating temp directory C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\temp
jvm 1 | 2021.09.29 13:50:37 INFO app[[o.s.es.EsSettings] Elasticsearch listening on [HTTP: 127.0.0.1:9001, TCP: 127.0.0.1:53055]
jvm 1 | 2021.09.29 13:50:37 INFO app[[o.s.a.ProcessLauncherImpl] Launch process[[key="es", ipcIndex=1, logFilenamePrefix=es]] from [C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\el
  as Files\Java\jdk-11.0.12\bin\java -XX:+UseG1GC -Djava.io.tmpdir=C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\temp -XX:ErrorFile=./logs/es_hs_err_pid%.log -Des.networkaddress.cache.t
  ess.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.noKey
  Dio.netty.recycler.maxCapacityPerThread=0 -Dio.netty.allocator.numDirectArenas=0 -Dlog4j.shutdownHookEnabled=false -Dlog4j2.disable.jmx=true -Djava.locale.providers=COMPAT -Xmx512m -Xms512m
  re=256m -XX:+HeapDumpOnOutOfMemoryError -Delasticsearch.des.path.home=C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\elasticsearch -Des.path.conf=C:\Users\Priyansi\Downloads\sonarqube-9
  1.0.47736\bin\windows-x86-64\conf
jvm 1 | 2021.09.29 13:50:37 INFO app[[o.s.a.SchedulerImpl] Waiting for Elasticsearch to be up and running
jvm 1 | 2021.09.29 13:50:39 ERROR app[[o.s.a.p.EsManagedProcess] Failed to check status
jvm 1 | org.elasticsearch.ElasticsearchException: java.util.concurrent.ExecutionException: java.net.ConnectException: Timeout connecting to [/127.0.0.1:9001]
jvm 1 | at org.elasticsearch.client.RestHighLevelClient.performRequest(RestHighLevelClient.java:2078)
jvm 1 | at org.elasticsearch.client.RestHighLevelClient.internalPerformRequest(RestHighLevelClient.java:1732)
jvm 1 | at org.elasticsearch.client.RestHighLevelClient.performRequest(RestHighLevelClient.java:1702)
jvm 1 | at org.elasticsearch.client.RestHighLevelClient.performRequestAndParseEntity(RestHighLevelClient.java:1672)
jvm 1 | at org.elasticsearch.client.ClusterClient.health(ClusterClient.java:119)
jvm 1 | at org.sonar.application.es.EsConnectorImpl.getClusterHealthStatus(EsConnectorImpl.java:64)
jvm 1 | at org.sonar.application.process.EsManagedProcess.checkStatus(EsManagedProcess.java:90)
jvm 1 | at org.sonar.application.process.EsManagedProcess.checkOperational(EsManagedProcess.java:75)
jvm 1 | at org.sonar.application.process.EsManagedProcess.isOperational(EsManagedProcess.java:60)
jvm 1 | at org.sonar.application.process.ManagedProcessHandler.refreshState(ManagedProcessHandler.java:220)
jvm 1 | at org.sonar.application.process.ManagedProcessHandler$EventWatcher.run(ManagedProcessHandler.java:285)
jvm 1 | Caused by: java.util.concurrent.ExecutionException: java.net.ConnectException: Timeout connecting to [/127.0.0.1:9001]
jvm 1 | at org.elasticsearch.common.util.concurrent.BaseFutureSync.getValue(BaseFuture.java:262)
jvm 1 | at org.elasticsearch.common.util.concurrent.BaseFutureSync.get(BaseFuture.java:249)
jvm 1 | at org.elasticsearch.common.util.concurrent.BaseFuture.get(BaseFuture.java:76)
jvm 1 | at org.elasticsearch.client.RestHighLevelClient.performRequest(RestHighLevelClient.java:2075)
jvm 1 | ... 10 common frames omitted
jvm 1 | Caused by: java.net.ConnectException: Timeout connecting to [/127.0.0.1:9001]
jvm 1 | at org.apache.http.nio.pool.RouteSpecificPool.timeout(RouteSpecificPool.java:169)
jvm 1 | at org.apache.http.nio.pool.AbstractNIOConnPool.requestTimeout(AbstractNIOConnPool.java:628)
jvm 1 | at org.apache.http.nio.pool.AbstractNIOConnPool.internalSessionRequestCallbackTimeout(AbstractNIOConnPool.java:894)
jvm 1 | at org.apache.http.impl.nio.reactor.SessionRequestImpl.timeout(SessionRequestImpl.java:184)
jvm 1 | at org.apache.http.impl.nio.reactor.DefaultConnectingIOReactor.processTimeouts(DefaultConnectingIOReactor.java:214)
jvm 1 | at org.apache.http.impl.nio.reactor.DefaultConnectingIOReactor.processEvents(DefaultConnectingIOReactor.java:158)
jvm 1 | at org.apache.http.impl.nio.reactor.AbstractMultiworkerIOReactor.execute(AbstractMultiworkerIOReactor.java:351)
jvm 1 | at org.apache.http.impl.nio.conn.PoolingNHttpClientConnectionManager.execute(PoolingNHttpClientConnectionManager.java:221)
jvm 1 | at org.apache.http.impl.nio.client.CloseableHttpAsyncClientBase$1.run(CloseableHttpAsyncClientBase.java:64)
jvm 1 | at java.base/java.lang.Thread.run(Thread.java:834)
jvm 1 |
jvm 1 | at org.elasticsearch.client.RestHighLevelClient.performRequest(RestHighLevelClient.java:1702)
jvm 1 | at org.elasticsearch.client.RestHighLevelClient.performRequestAndParseEntity(RestHighLevelClient.java:1672)
jvm 1 | at org.elasticsearch.client.ClusterClient.health(ClusterClient.java:119)
jvm 1 | at org.sonar.application.es.EsConnectorImpl.getClusterHealthStatus(EsConnectorImpl.java:64)
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jvm 1 | at org.elasticsearch.common.util.concurrent.BaseFutureSync.get(BaseFuture.java:249)
jvm 1 | at org.elasticsearch.common.util.concurrent.BaseFuture.get(BaseFuture.java:76)
jvm 1 | at org.elasticsearch.client.RestHighLevelClient.performRequest(RestHighLevelClient.java:2075)
jvm 1 | ... 10 common frames omitted
jvm 1 | Caused by: java.net.ConnectException: Timeout connecting to [/127.0.0.1:9001]
jvm 1 | at org.apache.http.nio.pool.RouteSpecificPool.timeout(RouteSpecificPool.java:169)
jvm 1 | at org.apache.http.nio.pool.AbstractNIOConnPool.requestTimeout(AbstractNIOConnPool.java:628)
jvm 1 | at org.apache.http.nio.pool.AbstractNIOConnPool.internalSessionRequestCallbackTimeout(AbstractNIOConnPool.java:894)
jvm 1 | at org.apache.http.impl.nio.reactor.SessionRequestImpl.timeout(SessionRequestImpl.java:184)
jvm 1 | at org.apache.http.impl.nio.reactor.DefaultConnectingIOReactor.processTimeouts(DefaultConnectingIOReactor.java:214)
jvm 1 | at org.apache.http.impl.nio.reactor.DefaultConnectingIOReactor.processEvents(DefaultConnectingIOReactor.java:158)
jvm 1 | at org.apache.http.impl.nio.reactor.AbstractMultiworkerIOReactor.execute(AbstractMultiworkerIOReactor.java:351)
jvm 1 | at org.apache.http.impl.nio.conn.PoolingNHttpClientConnectionManager.execute(PoolingNHttpClientConnectionManager.java:221)
jvm 1 | at org.apache.http.impl.nio.client.CloseableHttpAsyncClientBase$1.run(CloseableHttpAsyncClientBase.java:64)
jvm 1 | at java.base/java.lang.Thread.run(Thread.java:834)
jvm 1 |
jvm 1 | 2021.09.29 13:50:50 INFO app[[o.s.a.SchedulerImpl] Process(es) is up
jvm 1 | 2021.09.29 13:50:50 INFO app[[o.s.a.ProcessLauncherImpl] Launch process[[key="web", ipcIndex=2, logFilenamePrefix=web]] from [C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\c
  o\jdk-11.0.12\bin\java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\temp -XX:OmitStackTraceInFastThrow --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 --add-exports=java.base/jdk.internal.ref=ALL-UNNA
  o.base/java.nio=ALL-UNNAMED --add-opens=java.base/sun.nio.ch=ALL-UNNAMED --add-opens=java.management/sun.management=ALL-UNNAMED --add-opens=jdk.management/internal=ALL-UNNA
  e -XX:+HeapDumpOnOutOfMemoryError -Dhttp.nonProxyHosts=localhost[127.*][:11] -cp ./lib/sonar-application-9.1.0.47736.jar;C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\lib\jdbc\h2\1.4.200
  ver.app.WebServer C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\temp\sq-process17794516917441011properties
jvm 1 | 2021.09.29 13:51:42 INFO app[[o.s.a.SchedulerImpl] Process(es) is up
jvm 1 | 2021.09.29 13:51:42 INFO app[[o.s.a.ProcessLauncherImpl] Launch process[[key="ce", ipcIndex=3, logFilenamePrefix=ce]] from [C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\C:\
  o\jdk-11.0.12\bin\java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\temp -XX:OmitStackTraceInFastThrow --add-opens=java.base
  jdk-11.0.12\bin\java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\temp -XX:OmitStackTraceInFastThrow --add-opens=java.base
  io=ALL-UNNAMED --add-exports=java.base/jdk.internal.ref=ALL-UNNAMED --add-opens=java.base/java.lang=ALL-UNNAMED --add-opens=java.base/java.nio=ALL-UNNAMED --add-opens=java.base/sun.nio.ch=ALL-UNNAMED --a
  ment/sun.management=ALL-UNNAMED --add-opens=jdk.management/com.sun.management=internal=ALL-UNNAMED -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.nonProxyHosts=localhost[127.*][:11]
  llocation-9.1.0.47736.jar;C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\lib\jdbc\h2\1.4.200.jar org.sonar.ce.app.CeServer C:\Users\Priyansi\Downloads\sonarqube-9.1.0.47736\temp\sq-proce
  sProperties
jvm 1 | 2021.09.29 13:51:42 WARN app[[[startup] #####
jvm 1 | 2021.09.29 13:51:42 WARN app[[[startup] Default Administrator credentials are still being used. Make sure to change the password or deactivate the account.
jvm 1 | 2021.09.29 13:51:42 INFO app[[[startup] #####
jvm 1 | 2021.09.29 13:51:46 INFO app[[o.s.a.SchedulerImpl] Process(es) is up
jvm 1 | 2021.09.29 13:51:46 INFO app[[o.s.a.SchedulerImpl] SonarQube is up
```

Open another command prompt. Run command:

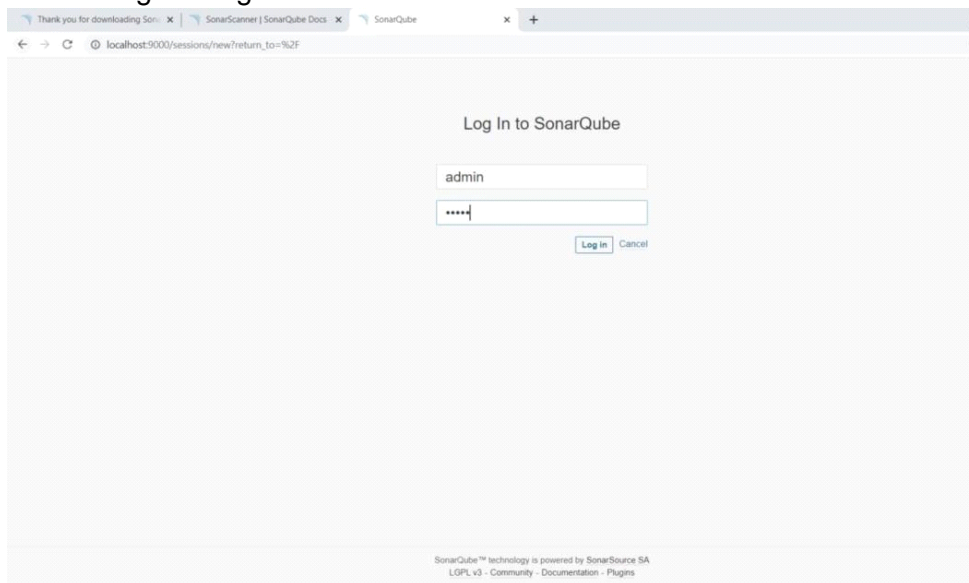
- cd "sonar-scanner-4.6.2.2472-windows\bin"
- sonar-scanner

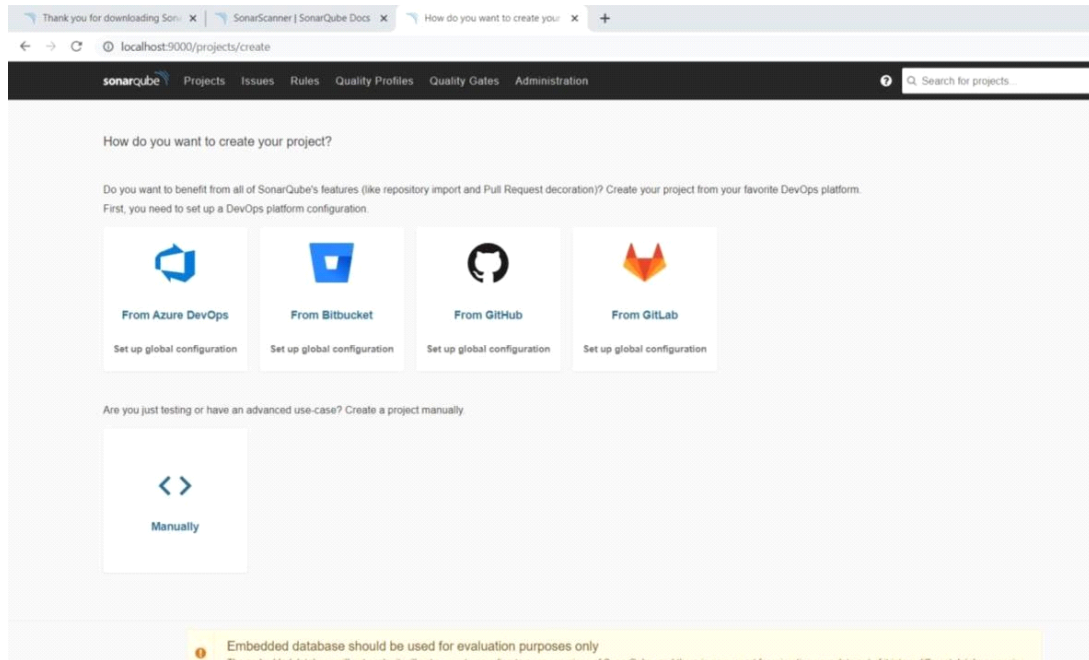
```
Command Prompt
C:\Users\Priyansi\Downloads\sonar-scanner-4.6.2.2472-windows\bin>sonar-scanner
INFO: Scanner configuration file: C:\Users\Priyansi\Downloads\sonar-scanner-4.6.2.2472-windows\bin\..\conf\sonar.properties
INFO: Project root configuration file: NONE
INFO: SonarScanner 4.6.2.2472
INFO: Java 11.0.11 AdoptOpenJDK (64-bit)
INFO: Windows 10 10.0 amd64
INFO: User cache: C:\Users\Priyansi\.sonar\cache
INFO: Scanner configuration file: C:\Users\Priyansi\Downloads\sonar-scanner-4.6.2.2472-windows\bin\..\conf\sonar.properties
INFO: Project root configuration file: NONE
INFO: Analyzing on SonarQube server 9.1.0
INFO: Default locale: "en_IN", source code encoding: "windows-1252" (analysis is platform dependent)
INFO: Load global settings
INFO: -----
INFO: EXECUTION FAILURE
INFO: -----
INFO: Total time: 3.958s
INFO: Final Memory: 5M/20M
INFO: -----
ERROR: Error during SonarScanner execution
ERROR: Not authorized. Analyzing this project requires authentication. Please provide a user token in sonar.login or credentials in sonar.login and sonar.password.
ERROR:
ERROR: Re-run SonarScanner using the -X switch to enable full debug logging.

C:\Users\Priyansi\Downloads\sonar-scanner-4.6.2.2472-windows\bin>
```

Server up and running on **localhost:9000**

Login using credentials as User: admin and Password: admin and Set a new password

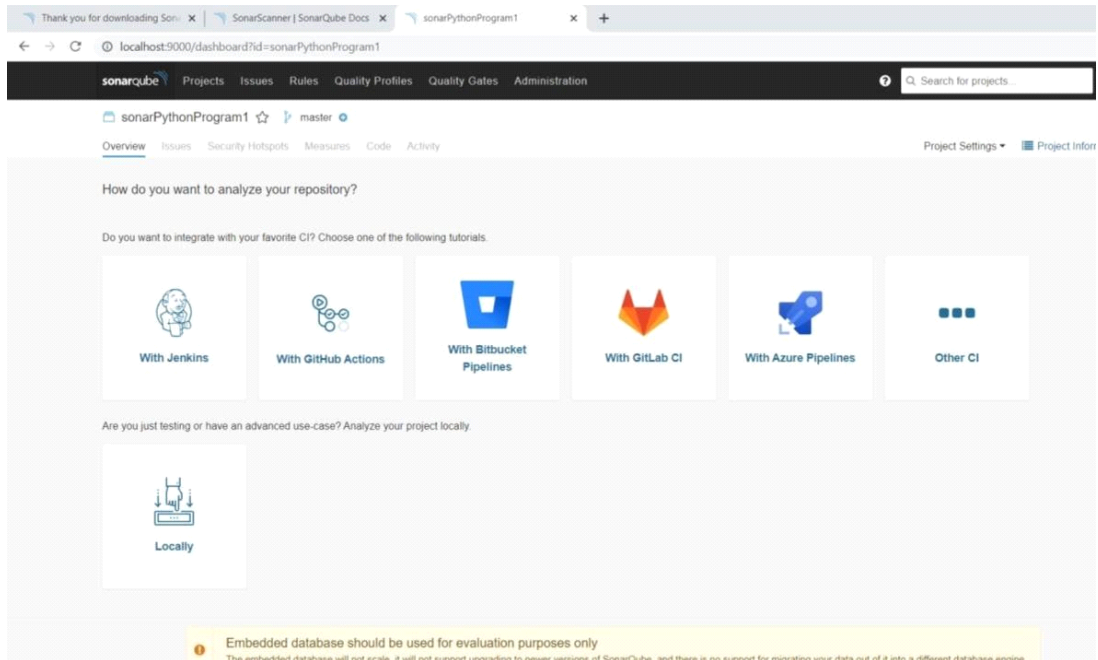




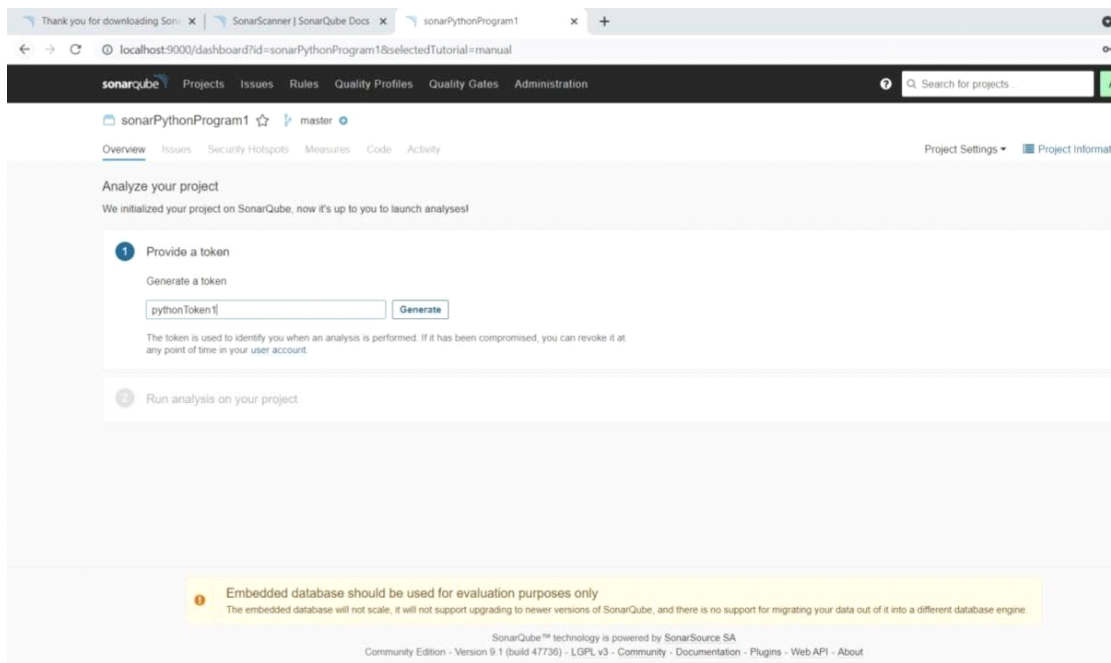
Click on Create a project **Manually**.

This screenshot shows the "Create a project" form in SonarQube. The form has two main sections: "Project display name" and "Project key". Both fields are required and have been filled with "sonarPythonProgram1". The "Project key" field has a green checkmark indicating it is valid. A "Set Up" button is at the bottom of the form. A warning banner at the bottom states: "Embedded database should be used for evaluation purposes only". The footer includes the SonarQube logo and version information: "SonarQube™ technology is powered by SonarSource SA. Community Edition - Version 9.1 (build 47736) - LGPL v3 - Community - Documentation - Plugins - Web API - About".

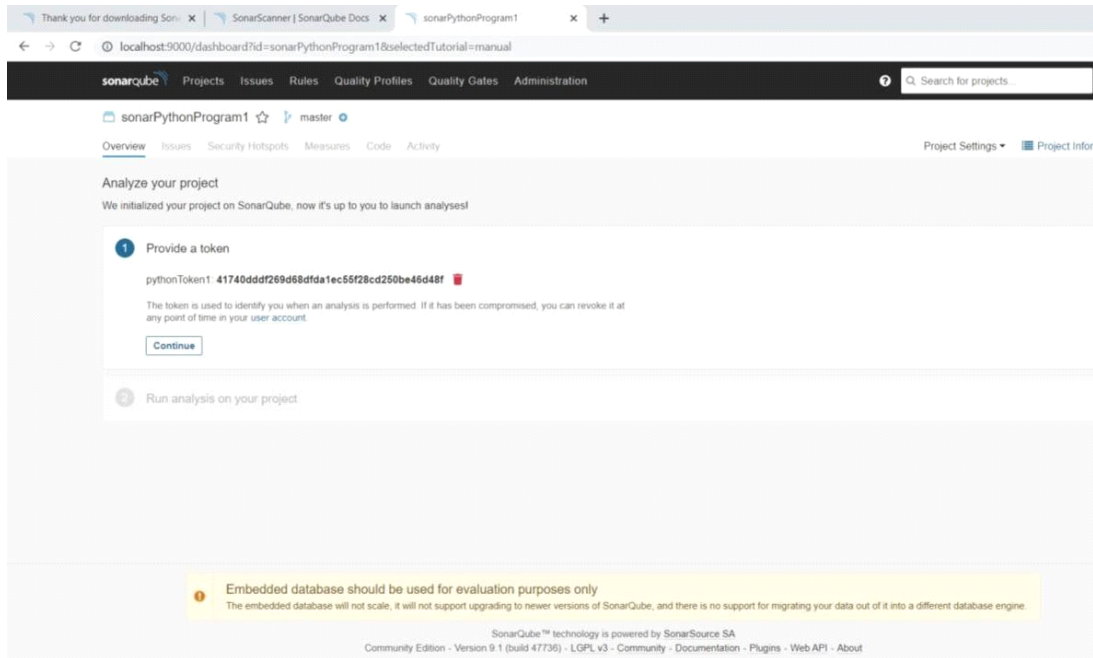
Give any Project display name.



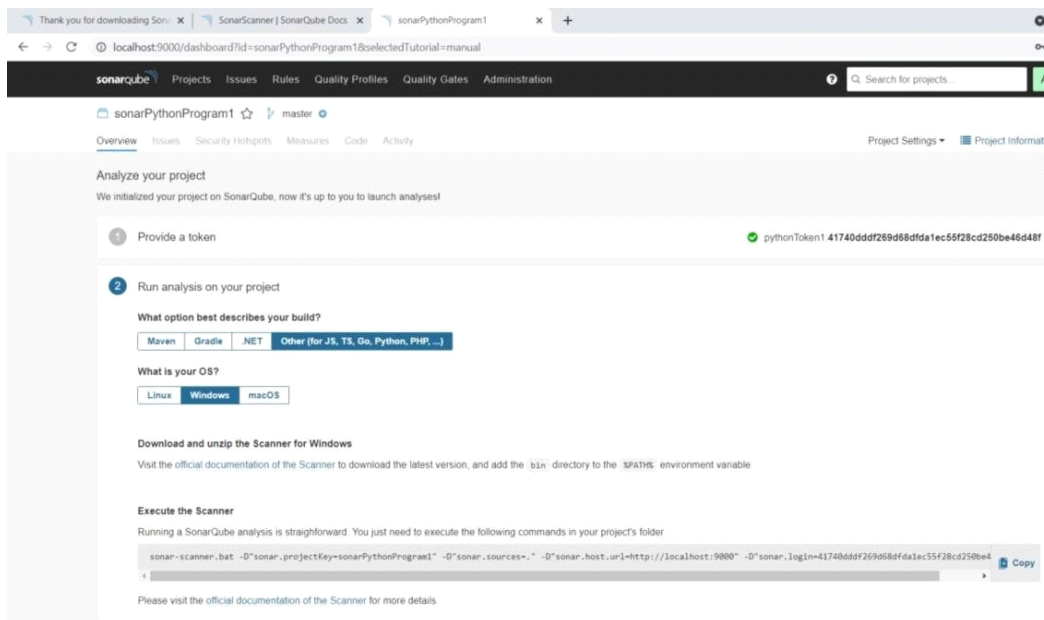
Click on **Locally**.



Give any name to token and click on **Generate**.



Click on **Continue**.



Save a
Python
program in a
folder.

def
checkIfRomanNumeral(numeral):

```

"""Controls that
the userinput
only contains
valid roman
numerals"""

numeral
=
numeral.upper()

validRomanNumerals
= ["M", "D", "C", "L",
  "X", "V", "I", "(", ")"]

for
letters in
numeral:

    if letters not
in
validRomanNumerals:

        print("
Sorrythat is
not a valid
roman
numeral")

        return
        Trueelif
        letters in

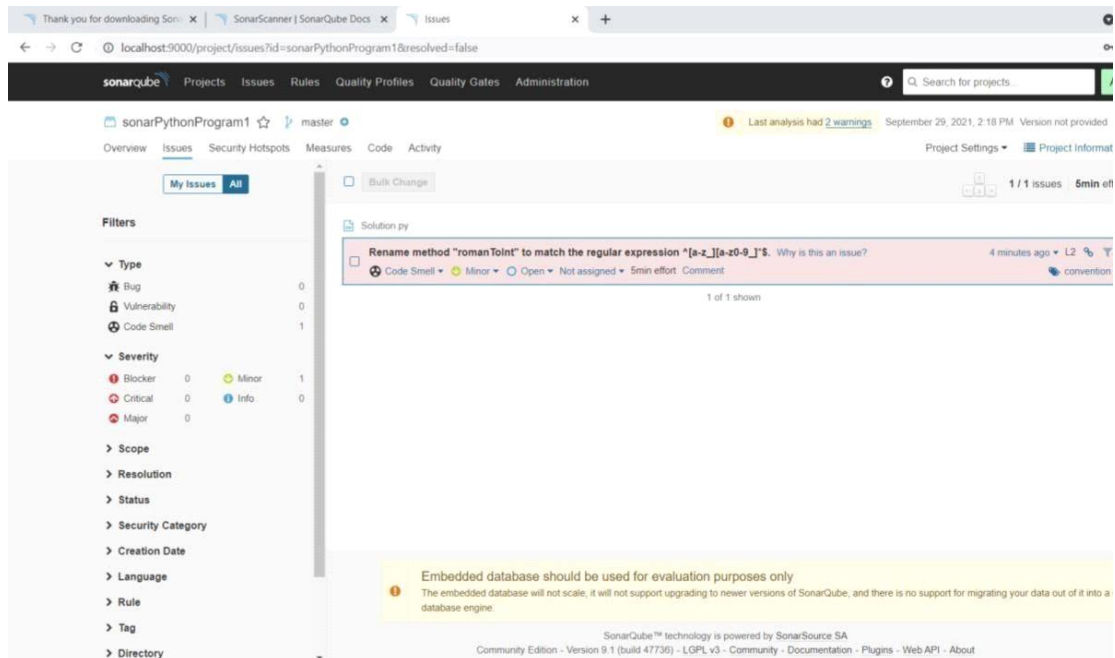
validRomanNumerals:

romanToInt(numeral)
break

```

Open command prompt in this folder and Run program using copied command. sonar-scanner.bat - D"sonar.projectKey=<YourDisplayName>" - D"sonar.sources=. " -D"sonar.host.url=http://localhost:9000" - D"sonar.login=<YourTokenGeneratedID>"

Given below is the inspection of code quality to perform automatic reviews with staticanalysis of code to detect bugs, code smells, and security vulnerabilities.



Press **“Ctrl + C”** to stop the server.

```

C:\Windows\system32\cmd.exe Command Prompt
jvm 1 at org.sonar.application.process.ManagedProcess.isOperational(isManagedProcessHandler.java:60)
jvm 1 at org.sonar.application.process.ManagedProcessHandler.refreshState(ManagedProcessHandler.java:228)
jvm 1 at org.sonar.application.process.ManagedProcessHandlereventBatcher.run(ManagedProcessHandler.java:285)
jvm 1 Caused by: java.util.concurrent.ExecutionException: java.net.ConnectException: Timeout connecting to [/127.0.0.1:9001]
jvm 1 at org.elasticsearch.common.util.concurrent.BaseFutureSync.get(BaseFutureSync.java:262)
jvm 1 at org.elasticsearch.common.util.concurrent.BaseFutureSync.get(BaseFutureSync.java:249)
jvm 1 at org.elasticsearch.client.RestHighLevelClient.performRequestAndParseEntity(RestHighLevelClient.java:76)
jvm 1 at org.elasticsearch.client.RestHighLevelClient.performRequest(RestHighLevelClient.java:2075)
jvm 1 ~ 10 common frames omitted
jvm 1 Caused by: java.net.ConnectException: Timeout connecting to [/127.0.0.1:9001]
jvm 1 at org.apache.http.nio.pool.RouteSpecificPool.timeout(RouteSpecificPool.java:169)
jvm 1 at org.apache.http.nio.pool.AbstractNioConnPool.requestTimeout(AbstractNioConnPool.java:628)
jvm 1 at org.apache.http.nio.pool.AbstractNioConnPool.requestBacklogTimeout(AbstractNioConnPool.java:694)
jvm 1 at org.apache.http.impl.nio.reactor.SessionRequestImpl.timeout(SessionRequestImpl.java:184)
jvm 1 at org.apache.http.impl.nio.reactor.DefaultConnectingIOReactor.processTimeouts(DefaultConnectingIOReactor.java:214)
jvm 1 at org.apache.http.impl.nio.reactor.DefaultConnectingIOReactor.processEvents(DefaultConnectingIOReactor.java:158)
jvm 1 at org.apache.http.impl.nio.reactor.AbstractPollingIOReactor.execute(AbstractPollingIOReactor.java:351)
jvm 1 at org.apache.http.impl.nio.conn.PoolingNHttpClientConnectionManager.execute(PoolingNHttpClientConnectionManager.java:221)
jvm 1 at org.apache.http.impl.nio.client.CloseableHttpAsyncClientBase$1.run(CloseableHttpAsyncClientBase.java:64)
jvm 1 at java.base/java.lang.Thread.run(Thread.java:834)
jvm 1 2021-09-29 13:50:58 INFO app[[o.s.a.SchedulerImpl] Process(es) is up
jvm 1 2021-09-29 13:51:42 INFO app[[o.s.a.ProcessLauncherImpl] Launch process['key='web', ipcIndex=2, logFileNamePrefix=web]] from [C:\Users\Priyansu\Downloads\sonarqube-9.1.0.47736\bin\windows-x86-64]
jdk-11.0.12/lib/jdk-11.0.12/bin/java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=C:\Users\Priyansu\Downloads\sonarqube-9.1.0.47736\temp -XX:-OmitStackTraceInFastThrow --add-opens:javabase/java.base/java.lang.internal=ALL-UNNAMED --add-opens:java.base/java.lang.invoke=ALL-UNNAMED --add-exports:java.base/jdk.internal.ref=ALL-UNNAMED --add-opens:java.base/java.lang.invoke=ALL-UNNAMED --add-opens:java.management/sun.management=ALL-UNNAMED --add-opens:java.management/com.sun.management.internal=ALL-UNNAMED -XX:-HeapDumpOnOutOfMemoryError -Dhttp.nonproxyhosts=localhost[127.*]:[*] [-cp ".\lib\sonar-application-9.1.0.47736.jar;C:\Users\Priyansu\Downloads\sonarqube-9.1.0.47736\lib\jdbc\H2\1.4.200.jar;C:\Users\Priyansu\Downloads\sonarqube-9.1.0.47736\lib\jdbc\H2\1.4.200.jar"] org.sonar.ce.app.CeServer C:\Users\Priyansu\Downloads\sonarqube-9.1.0.47736\temp\sq-plugin-properties
jvm 1 2021-09-29 13:51:42 INFO app[[o.s.a.SchedulerImpl] Process] web is up
jvm 1 2021-09-29 13:51:42 INFO app[[o.s.a.ProcessLauncherImpl] Launch process['key='ce', ipcIndex=3, logFileNamePrefix=ce]] from [C:\Users\Priyansu\Downloads\sonarqube-9.1.0.47736\bin\windows-x86-64]
jdk-11.0.12/lib/jdk-11.0.12/bin/java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=C:\Users\Priyansu\Downloads\sonarqube-9.1.0.47736\temp -XX:-OmitStackTraceInFastThrow --add-opens:javabase/java.base/java.lang.internal=ALL-UNNAMED --add-opens:java.base/java.lang.invoke=ALL-UNNAMED --add-exports:java.base/jdk.internal.ref=ALL-UNNAMED --add-opens:java.management/sun.management=ALL-UNNAMED --add-opens:java.management/com.sun.management.internal=ALL-UNNAMED -XX:-HeapDumpOnOutOfMemoryError -Dhttp.nonproxyhosts=localhost[127.*]:[*] [-cp ".\lib\sonar-application-9.1.0.47736.jar;C:\Users\Priyansu\Downloads\sonarqube-9.1.0.47736\lib\jdbc\H2\1.4.200.jar;C:\Users\Priyansu\Downloads\sonarqube-9.1.0.47736\lib\jdbc\H2\1.4.200.jar"] org.sonar.ce.app.CeServer C:\Users\Priyansu\Downloads\sonarqube-9.1.0.47736\temp\sq-plugin-properties
jvm 1 2021-09-29 13:51:42 WARN app[[start] Default Administrator credentials are still being used. Make sure to change the password or deactivate the account.]
jvm 1 2021-09-29 13:51:42 WARN app[[start] #####
jvm 1 2021-09-29 13:51:46 INFO app[[o.s.a.SchedulerImpl] Process] ce is up
jvm 1 2021-09-29 13:51:46 INFO app[[o.s.a.SchedulerImpl] SonarQube is up
Wrapper CTRL-C trapped. Shutting down...
jvm 1 2021-09-29 14:38:57 INFO app[[o.s.a.SchedulerImpl] Stopping SonarQube
jvm 1 2021-09-29 14:38:58 INFO app[[o.s.a.SchedulerImpl] Process] ce is stopped
jvm 1 2021-09-29 14:38:58 INFO app[[o.s.a.SchedulerImpl] Process] web is stopped
jvm 1 2021-09-29 14:38:58 INFO app[[o.s.a.SchedulerImpl] Process] ce is stopped
jvm 1 2021-09-29 14:38:58 INFO app[[o.s.a.SchedulerImpl] SonarQube is stopped
Wrapper ^C-- Wrapper Stopped
Terminate batch job (Y/N)? Y
C:\Users\Priyansu\Downloads\sonarqube-9.1.0.47736\bin\windows-x86-64

```

Conclusion:

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In this assignment we learnt how to use sonarqube and sonarscanner to find out errors in our code and how too debug them.