

How to test the quality using sonarQube

1. Start SonarQube

```
Microsoft Windows [Version 10.0.22621.3958]
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C:\Users\DO>cd cd C:\Sonarqube\sonarqube-10.6.0.92116\bin\windows-x86-64
The filename, directory name, or volume label syntax is incorrect.

C:\Users\DO>cd C:\Sonarqube\sonarqube-10.6.0.92116\bin\windows-x86-64

C:\Sonarqube\sonarqube-10.6.0.92116\bin\windows-x86-64>dit
'dit' is not recognized as an internal or external command,
operable program or batch file.

C:\Sonarqube\sonarqube-10.6.0.92116\bin\windows-x86-64>dir
Volume in drive C has no label.
Volume Serial Number is 3AEB-9146

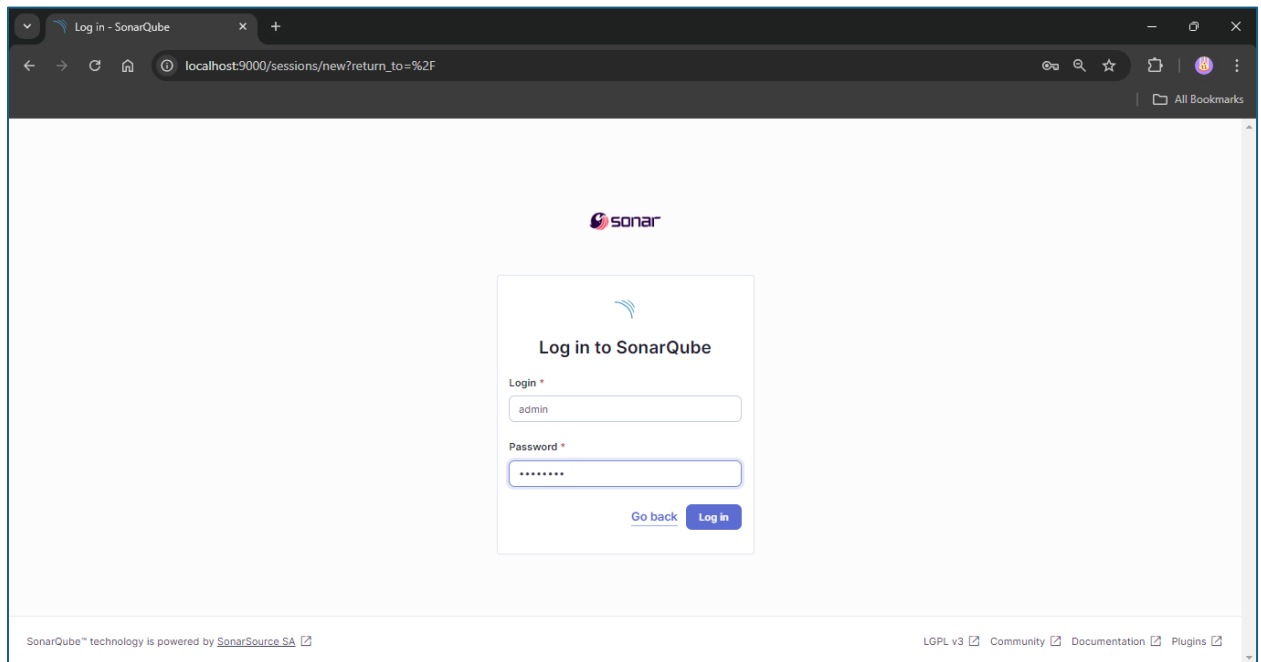
Directory of C:\Sonarqube\sonarqube-10.6.0.92116\bin\windows-x86-64

08/12/2024  11:21 AM  <DIR>          .
08/12/2024  11:21 AM  <DIR>          ..
08/12/2024  11:22 AM  <DIR>          lib
06/21/2024  06:19 AM                1,421 SonarService.bat
06/21/2024  06:19 AM                2,625 StartSonar.bat
                2 File(s)              4,046 bytes
                3 Dir(s)  237,568,348,160 bytes free

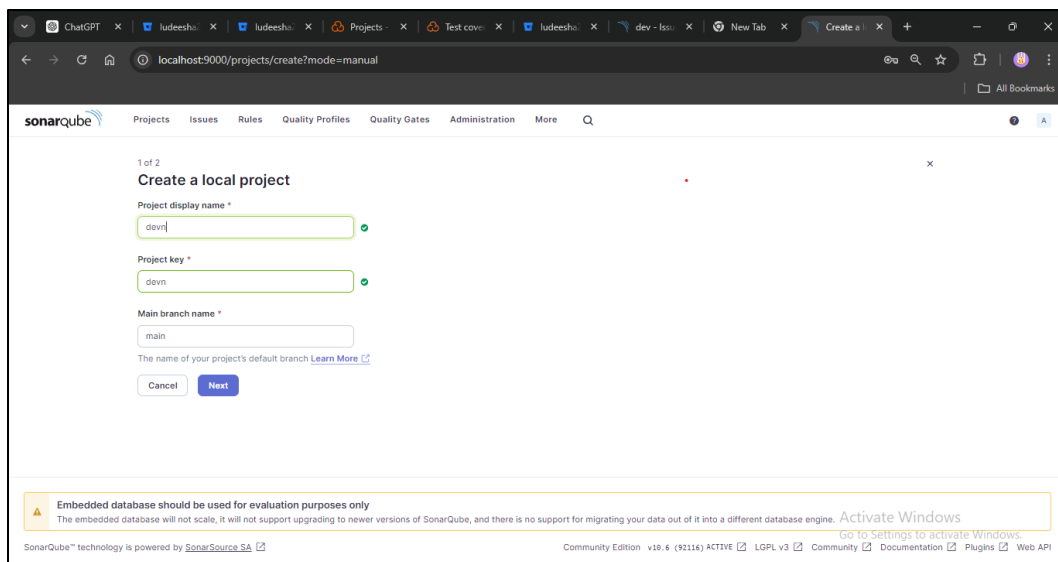
C:\Sonarqube\sonarqube-10.6.0.92116\bin\windows-x86-64>StartSonar.bat
```

```
qube\sonarqube-10.6.0.92116\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-UNN
AMED --add-exports=java.base/jdk.internal.ref=ALL-UNNAMED --add-opens=java.base/java.nio=ALL-UNNAMED --add-opens=java.ba
se/sun.nio.ch=ALL-UNNAMED --add-opens=java.management/sun.management=ALL-UNNAMED --add-opens=jdk.management/com.sun.mana
gement.internal=ALL-UNNAMED -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.nonProxyHosts=localhost|127.*|[::1]
-cp ./lib/sonar-application-10.6.0.92116.jar;C:\Sonarqube\sonarqube-10.6.0.92116\lib\jdbc\h2\h2-2.2.224.jar org.sonar.s
erver.app.WebServer C:\Sonarqube\sonarqube-10.6.0.92116\temp\sq-process4771028762840316981properties
WARNING: A terminally deprecated method in java.lang.System has been called
WARNING: System::setSecurityManager has been called by org.sonar.process.PluginSecurityManager (file:/C:/Sonarqube/sonar
qube-10.6.0.92116/lib/sonar-application-10.6.0.92116.jar)
WARNING: Please consider reporting this to the maintainers of org.sonar.process.PluginSecurityManager
WARNING: System::setSecurityManager will be removed in a future release
2024.08.14 10:10:29 INFO app[][o.s.a.SchedulerImpl] Process[web] is up
2024.08.14 10:10:29 INFO app[][o.s.a.ProcessLauncherImpl] Launch process[COMPUTE_ENGINE] from [C:\Sonarqube\sonarqube-1
0.6.0.92116]: C:\Program Files\Java\jdk-17\bin\java -Djava.awt.headless=true -Dfile.encoding=UTF-8 -Djava.io.tmpdir=C:\S
onarqube\sonarqube-10.6.0.92116\temp -XX:-OmitStackTraceInFastThrow --add-opens=java.base/java.util=ALL-UNNAMED --add-ex
ports=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 --add-opens=java.management/sun.management=ALL-UNNAMED --add-op
ens=jdk.management/com.sun.management.internal=ALL-UNNAMED -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.nonP
roxyHosts=localhost|127.*|[::1] -cp ./lib/sonar-application-10.6.0.92116.jar;C:\Sonarqube\sonarqube-10.6.0.92116\lib\jdb
c\h2\h2-2.2.224.jar org.sonar.ce.app.CeServer C:\Sonarqube\sonarqube-10.6.0.92116\temp\sq-process229365836857030648prope
rties
WARNING: A terminally deprecated method in java.lang.System has been called
WARNING: System::setSecurityManager has been called by org.sonar.process.PluginSecurityManager (file:/C:/Sonarqube/sonar
qube-10.6.0.92116/lib/sonar-application-10.6.0.92116.jar)
WARNING: Please consider reporting this to the maintainers of org.sonar.process.PluginSecurityManager
WARNING: System::setSecurityManager will be removed in a future release
2024.08.14 10:10:35 INFO app[][o.s.a.SchedulerImpl] Process[ce] is up
2024.08.14 10:10:35 INFO app[][o.s.a.SchedulerImpl] SonarQube is operational
```

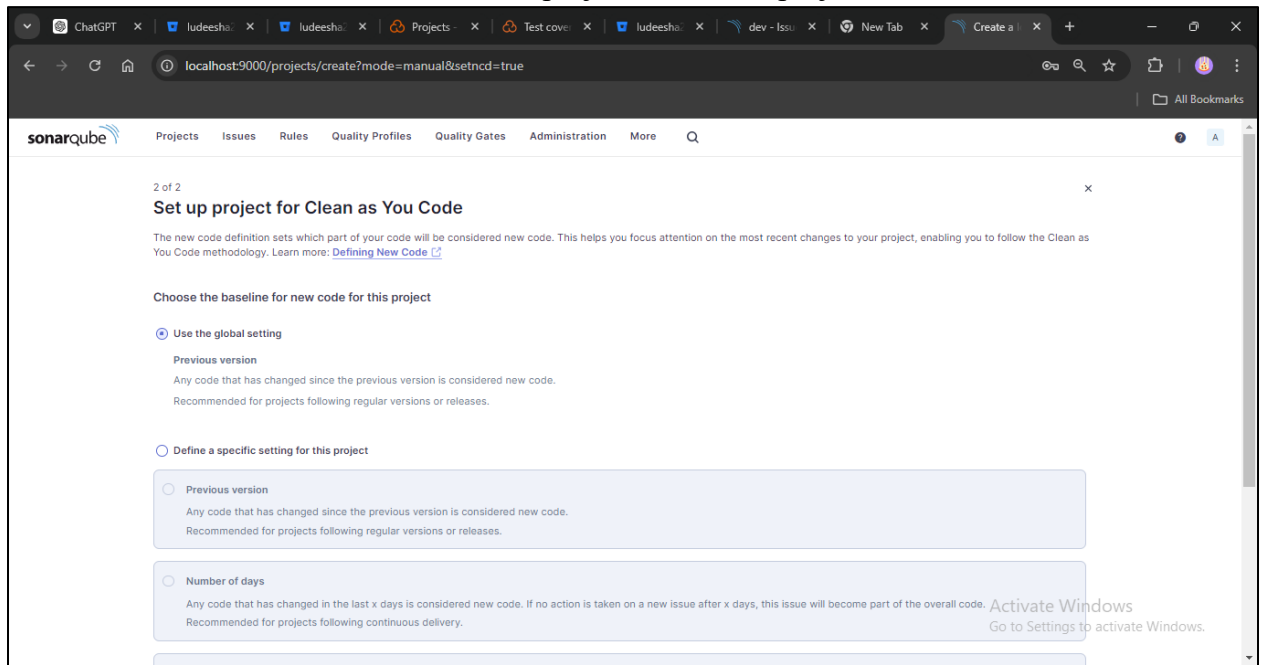
2. Navigate to **localhost9000**
3. Sign in Using
Username:Admin
Password:admin123



4. Import Project from local
And fill the form



5. Choose the baseline for new code for this project and create project



6. Analysis Method

[Other CI](#)

7. Go to project folder and run the command
Follow the steps as given in the page

```
sonar-scanner.bat -D"sonar.projectKey=devn" -D"sonar.sources=." -  
D"sonar.host.url=http://localhost:9000" -D"sonar.login=YOUR_TOKEN"
```

SonarQube

ProjectsIssuesRulesQuality ProfilesQuality GatesAdministrationMore

devn / i main

OverviewIssuesSecurity HotspotsMeasuresCodeActivity

Project SettingsProject Information

Analysis Method > Other CI

Analyze your project

We initialized your project on SonarQube, now it's up to you to launch analyses!

1 Provide a token

afd8d6d8b6dc1e4539a14134c554c8a2d747ba75

2 Run analysis on your project

What option best describes your project?

MavenGradle.NETOther (for JS, TS, Go, Python, PHP, ...)

What is your OS?

LinuxWindowsmacOS

Download and unzip the Scanner for Windows

```
Setv:SONAR_SCANNER_VERSION = "6.0.0.4432"  
Setv:SONAR_DIRECTORY = [System.IO.Path]::Combine($(get-location).Path,".sonar")  
Setv:SONAR_SCANNER_HOME = "$env:SONAR_DIRECTORY\sonar-scanner-$env:SONAR_SCANNER_VERSION-windows"  
rm $env:SONAR_SCANNER_HOME -Force -Recurse -ErrorAction SilentlyContinue  
New-Item -path $env:SONAR_SCANNER_HOME -type directory  
(New-Object System.Net.WebClient).DownloadFile("https://binaries.sonarsource.com/Distribution/sonar-scanner-cli/sonar-scanner-cli-$env:SONAR_SCANNER_VERSION-windows.zip", "$env:SONAR_DIRECTORY\sonar-scanner.zip")  
Add-Type -AssemblyName System.IO.Compression.FileSystem  
[System.IO.Compression.ZipFile]::ExtractToDirectory("$env:SONAR_DIRECTORY\sonar-scanner.zip", "$env:SONAR_DIRECTORY")  
rm .\sonar\sonar-scanner.zip -Force -ErrorAction SilentlyContinue  
$env:Path += ";$env:SONAR_SCANNER_HOME\bin"  
Setv:SONAR_SCANNER_OPTS="-server"
```

Copy

Configure a SONAR_TOKEN environment variable in your CI settings

1 Add an environment variable called: SONAR_TOKEN

2 Give it the following value: afd8d6d8b6dc1e4539a14134c554c8a2d747ba75

Execute the Scanner

Running a SonarQube analysis is straightforward. You just need to execute the following commands in your project's folder.

```
sonar-scanner.bat -D"sonar.projectKey=devn" -D"sonar.sources=" -D"sonar.host.url=http://localhost:9000"
```

Copy

Please visit the official documentation of the Scanner for more details.

Is my analysis done? If your analysis is successful, this page will automatically refresh in a few moments.

While you're waiting, why not consider upgrading to our Developer Edition ? It offers additional features such as Branch Analysis and Pull Request Analysis .

Embedded database should be used for evaluation purposes only

The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.

SonarQube™ technology is powered by SonarSource SA

Community Edition v10.6 (92116) ACTIVE LGPL v3 Community Documentation Plugins Web API

8. Success Message

```
Command Prompt
INFO: Using git CLI to retrieve untracked files
WARN: Analyzing only language associated files, make sure to run the analysis inside a git repository to make use of inclusions specified via "sonar.text.inclusions"
INFO: 204 source files to be analyzed
INFO: 204/204 source files have been analyzed
INFO: Sensor TextAndSecretsSensor [text] (done) | time=3205ms
INFO: ----- Run sensors on project
INFO: Sensor Zero Coverage Sensor
INFO: Sensor Zero Coverage Sensor (done) | time=207ms
INFO: SCM Publisher No SCM system was detected. You can use the 'sonar.scm.provider' property to explicitly specify it.
INFO: CPD Executor 14 files had no CPD blocks
INFO: CPD Executor Calculating CPD for 176 files
INFO: CPD Executor CPD calculation finished (done) | time=426ms
INFO: Analysis report generated in 583ms, dir size=1.6 MB
INFO: Analysis report compressed in 1045ms, zip size=962.9 kB
INFO: Analysis report uploaded in 107ms
INFO: ANALYSIS SUCCESSFUL, you can find the results at: http://localhost:9000/dashboard?id=devn
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=80135d42-3312-46a2-b126-5227e2dff7e8
INFO: Analysis total time: 2:34.053 s
INFO: -----
INFO: EXECUTION SUCCESS
INFO: -----
INFO: Total time: 2:35.955s
INFO: Final Memory: 14M/54M
INFO: -----
C:\Users\DO\Downloads\dev-merged>
```

9. Dashboard will show the results

