



# SONAR

Check your code quality

## ABSTRACT

This document will guide you in step by step approach from setting up of your sonar server to check the code quality.

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Note:

If you choose serial number 4 over serial number 3 then you can skip the 3<sup>rd</sup> and directly jump to step 4.

This document is done on initial knowledge sharing by **Shashi Kumar (Campus mind Feb 2018)**.

If you find some other way then please share with me so that I can update this document.

## STEPS TO USE SONARQUBE SERVER:

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### Step1:

Get sonarqube-x.x zip from whitelist and extract it to your local.

### Step 2:

Go inside “conf” folder.

| ↑ > JPrakash > OS (C:) > sonarqube-7.1 |                    |             |      |  |
|----------------------------------------|--------------------|-------------|------|--|
| Name                                   | Date modified      | Type        | Size |  |
| bin                                    | 02-Aug-18 6:21 PM  | File folder |      |  |
| conf                                   | 02-Aug-18 6:21 PM  | File folder |      |  |
| data                                   | 02-Aug-18 7:56 PM  | File folder |      |  |
| elasticsearch                          | 02-Aug-18 6:21 PM  | File folder |      |  |
| extensions                             | 02-Aug-18 6:29 PM  | File folder |      |  |
| lib                                    | 02-Aug-18 6:21 PM  | File folder |      |  |
| logs                                   | 06-Aug-18 9:51 PM  | File folder |      |  |
| temp                                   | 03-Aug-18 11:31 AM | File folder |      |  |
| web                                    | 02-Aug-18 6:21 PM  | File folder |      |  |
| COPYING                                | 02-Aug-18 6:21 PM  | File        | 8 KB |  |

### Step 3:

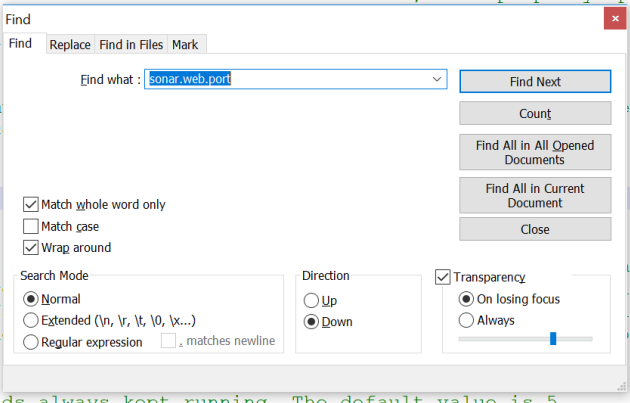
Select and open “sonar.properties” file with notepad++

| ↑ > JPrakash > OS (C:) > sonarqube-7.1 > conf |                   |                        |       |  |
|-----------------------------------------------|-------------------|------------------------|-------|--|
| Name                                          | Date modified     | Type                   | Size  |  |
| sonar.properties                              | 02-Aug-18 6:28 PM | Properties Source File | 18 KB |  |
| wrapper.conf                                  | 02-Aug-18 6:21 PM | CONF File              | 4 KB  |  |

#### Step 4:

Search for the string “sonar.web.port” in the document. This line would be somewhere around line number 111. 😊

```
98
99 # Same as previous property, but allows to not repeat all other settings like -Xmx
100 #sonar.web.javaAdditionalOpts=
101
102 # Binding IP address. For servers with more than one IP address, this property specifies which
103 # address will be used for listening.
104 # By default, ports will be used on all interfaces.
105 #sonar.web.host=0.0.0.0
106
107 # Web context. When set, it must start with forward slash (for example /sonarqube).
108 # The default value is root context (empty value).
109 #sonar.web.context=
110 # TCP port for incoming HTTP connections. Default value is 9000.
111 #sonar.web.port=9000
112
113 # The maximum number of connections that the server will accept and process at any given time.
114 # When this number has been reached, the server will not accept any more connections until
115 # the number of connections falls below the configured value.
116 # based on the sonar.web.connections property.
117 #sonar.web.http.maxThreads=50
118
119 # The minimum number of threads always kept running. The default value is 5.
120 #sonar.web.http.minThreads=5
121
122 # The maximum queue length for incoming connection requests when all possible request processing
123 # threads are in use. Any requests received when the queue is full will be refused.
```



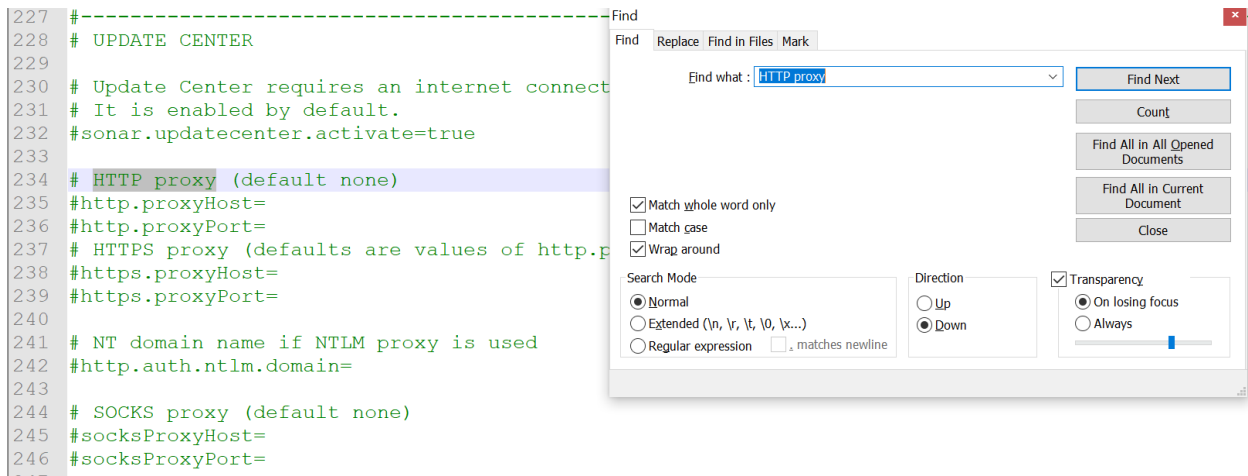
Uncomment that line by removing # from the starting of the line. By default the port assigned to sonar.web.port is 9000. This port is blocked by MindTree network. So change it to any available port.

I have used port no 8081 for the purpose.

```
106
107 # Web context. When set, it must start with forward slash (for example /sonarqube).
108 # The default value is root context (empty value).
109 #sonar.web.context=
110 # TCP port for incoming HTTP connections. Default value is 9000.
111 sonar.web.port=8081
112
113 # The maximum number of connections that the server will accept and process at any given time.
114 # When this number has been reached, the server will not accept any more connections until
115 # the number of connections falls below the configured value.
```

#### Step 5:

Search for the text “HTTP proxy” in the document. After searching for “HTTP proxy” we can find “HTTPS proxy” just below “HTTP proxy”.



### Step 6:

Uncomment and assign “172.17.2.218” to both “http.proxyHost” and “https.proxyHost”.

Uncomment and assign “8085” to both “http.proxyPort” and “https.proxyPort”.

```
225 #-----
226 # UPDATE CENTER
227
228 # Update Center requires an internet connection to request https://update.sonarsource.org
229 # It is enabled by default.
230 #sonar.updatecenter.activate=true
231
232 # HTTP proxy (default none)
233 http.proxyHost=172.17.2.218
234 http.proxyPort=8085
235 # HTTPS proxy (defaults are values of http.proxyHost and http.proxyPort)
236 https.proxyHost=172.17.2.218
237 https.proxyPort=8085
238
239 # NT domain name if NTLM proxy is used
240 #http.auth.ntlm.domain=
241
242 # SOCKS proxy (default none)
243 #socksProxyHost=
244 #socksProxyPort=
245
```

Do not get confused “HTTP proxy” with “SOCKs proxy”. Remember, we need to have only HTTP proxy for sonar server to work. 😊

### Step 7:

Save and close the file.

#### Step 8:

Go back and open “bin” folder from sonarqube root directory.

| ↑ JPrakash > OS (C:) > sonarqube-7.1 |                    |             |      |
|--------------------------------------|--------------------|-------------|------|
| Name                                 | Date modified      | Type        | Size |
| bin                                  | 02-Aug-18 6:21 PM  | File folder |      |
| conf                                 | 02-Aug-18 6:21 PM  | File folder |      |
| data                                 | 02-Aug-18 7:56 PM  | File folder |      |
| elasticsearch                        | 02-Aug-18 6:21 PM  | File folder |      |
| extensions                           | 02-Aug-18 6:29 PM  | File folder |      |
| lib                                  | 02-Aug-18 6:21 PM  | File folder |      |
| logs                                 | 06-Aug-18 9:51 PM  | File folder |      |
| temp                                 | 03-Aug-18 11:31 AM | File folder |      |
| web                                  | 02-Aug-18 6:21 PM  | File folder |      |
| COPYING                              | 02-Aug-18 6:21 PM  | File        | 8 KB |

#### Step 9:

Select and open “windows-x86-64” directory (as I am using a 64 bit windows system. You should choose accordingly)

| ↑ JPrakash > OS (C:) > sonarqube-7.1 > bin |                   |             |      |
|--------------------------------------------|-------------------|-------------|------|
| Name                                       | Date modified     | Type        | Size |
| jsw-license                                | 02-Aug-18 6:21 PM | File folder |      |
| linux-x86-32                               | 02-Aug-18 6:21 PM | File folder |      |
| linux-x86-64                               | 02-Aug-18 6:21 PM | File folder |      |
| macosx-universal-64                        | 02-Aug-18 6:21 PM | File folder |      |
| windows-x86-32                             | 02-Aug-18 6:21 PM | File folder |      |
| windows-x86-64                             | 02-Aug-18 6:21 PM | File folder |      |

#### Step 10:

Select and double click on the batch file named “StartSonar.bat”.

| ↑ JPrakash > OS (C:) > sonarqube-7.1 > bin > windows-x86-64 |                   |                    |        |  |
|-------------------------------------------------------------|-------------------|--------------------|--------|--|
| Name                                                        | Date modified     | Type               | Size   |  |
| lib                                                         | 02-Aug-18 6:21 PM | File folder        |        |  |
| InstallNTService.bat                                        | 02-Aug-18 6:21 PM | Windows Batch File | 2 KB   |  |
| StartNTService.bat                                          | 02-Aug-18 6:21 PM | Windows Batch File | 2 KB   |  |
| StartSonar.bat                                              | 02-Aug-18 6:21 PM | Windows Batch File | 2 KB   |  |
| StopNTService.bat                                           | 02-Aug-18 6:21 PM | Windows Batch File | 2 KB   |  |
| UninstallNTService.bat                                      | 02-Aug-18 6:21 PM | Windows Batch File | 2 KB   |  |
| wrapper.exe                                                 | 02-Aug-18 6:21 PM | Application        | 216 KB |  |

This will open sonarqube command prompt window and if above steps are followed correctly we will be able to see a message at the end as “SonarQube is up”

```

SonarQube
jvm 1 | WARNING: Please consider reporting this to the maintainers of io.netty.util.internal.ReflectionUtil
jvm 1 | WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
jvm 1 | WARNING: All illegal access operations will be denied in a future release
jvm 1 | 2018.08.07 10:19:27 INFO app[[o.s.a.SchedulerImpl] Process[es] is up
jvm 1 | 2018.08.07 10:19:27 INFO app[[o.s.a.p.ProcessLauncherImpl] Launch process[[key='web', ipcIndex=2, logFilenam
mePrefix=web]] from [C:\sonarqube-7.1]: C:\Program Files\Java\jre-9.0.4\bin\java -Djava.awt.headless=true -Dfile.encoding=
g=UTF-8 -Djava.io.tmpdir=C:\sonarqube-7.1\temp -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.proxyHost=172.17
.2.218 -Dhttp.proxyPort=8085 -Dhttps.proxyHost=172.17.2.218 -Dhttps.proxyPort=8085 -cp ./lib/common/*;C:\sonarqube-7.1\l
ib\jdbc\h2\h2-1.3.176.jar org.sonar.server.app.WebServer C:\sonarqube-7.1\temp\sq-process17016607104314928361properties
jvm 1 | WARNING: An illegal reflective access operation has occurred
jvm 1 | WARNING: Illegal reflective access by io.netty.util.internal.ReflectionUtil (file:/C:/sonarqube-7.1/lib/commo
n/netty-common-4.1.13.Final.jar) to constructor java.nio.DirectByteBuffer(long,int)
jvm 1 | WARNING: Please consider reporting this to the maintainers of io.netty.util.internal.ReflectionUtil
jvm 1 | WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
jvm 1 | WARNING: All illegal access operations will be denied in a future release
jvm 1 | 2018.08.07 10:20:15 INFO app[[o.s.a.SchedulerImpl] Process[web] is up
jvm 1 | 2018.08.07 10:20:15 INFO app[[o.s.a.p.ProcessLauncherImpl] Launch process[[key='ce', ipcIndex=3, logFilenam
ePrefix=ce]] from [C:\sonarqube-7.1]: C:\Program Files\Java\jre-9.0.4\bin\java -Djava.awt.headless=true -Dfile.encoding=
UTF-8 -Djava.io.tmpdir=C:\sonarqube-7.1\temp -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Dhttp.proxyHost=172.17.2
.218 -Dhttp.proxyPort=8085 -Dhttps.proxyHost=172.17.2.218 -Dhttps.proxyPort=8085 -cp ./lib/common/*;C:\sonarqube-7.1\l
ib\jdbc\h2\h2-1.3.176.jar org.sonar.ce.app.CeServer C:\sonarqube-7.1\temp\sq-process4863839943918758409properties
jvm 1 | WARNING: An illegal reflective access operation has occurred
jvm 1 | WARNING: Illegal reflective access by io.netty.util.internal.ReflectionUtil (file:/C:/sonarqube-7.1/lib/commo
n/netty-common-4.1.13.Final.jar) to constructor java.nio.DirectByteBuffer(long,int)
jvm 1 | WARNING: Please consider reporting this to the maintainers of io.netty.util.internal.ReflectionUtil
jvm 1 | WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
jvm 1 | WARNING: All illegal access operations will be denied in a future release
jvm 1 | 2018.08.07 10:20:26 INFO app[[o.s.a.SchedulerImpl] Process[ce] is up
jvm 1 | 2018.08.07 10:20:26 INFO app[[o.s.a.SchedulerImpl] SonarQube is up

```

#### NOTE:

If still you get any error message then it may be any reason from this 2:

1. SonarQube need JVM in the background. Makesure java is installed properly.
2. Port on which you are trying to run SonarQube is already in use. If this is the case free the port or close the services related to java which will close this port or restart your system which will close the port.😊

Then follow this document again from step 1 to step 10.

## STEPS TO USE SONARRUNNER:

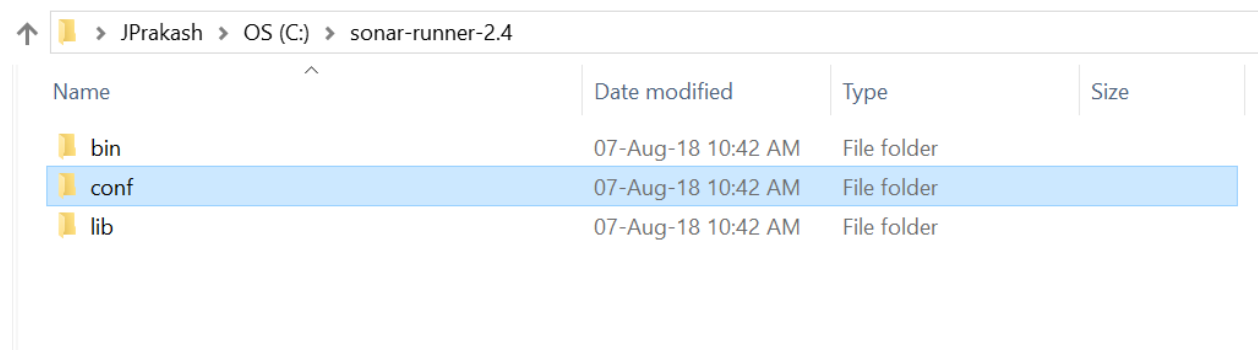
~~~~~

### Step1:

Get sonar-runner-x.x zip from whitelist and extract it to your local.

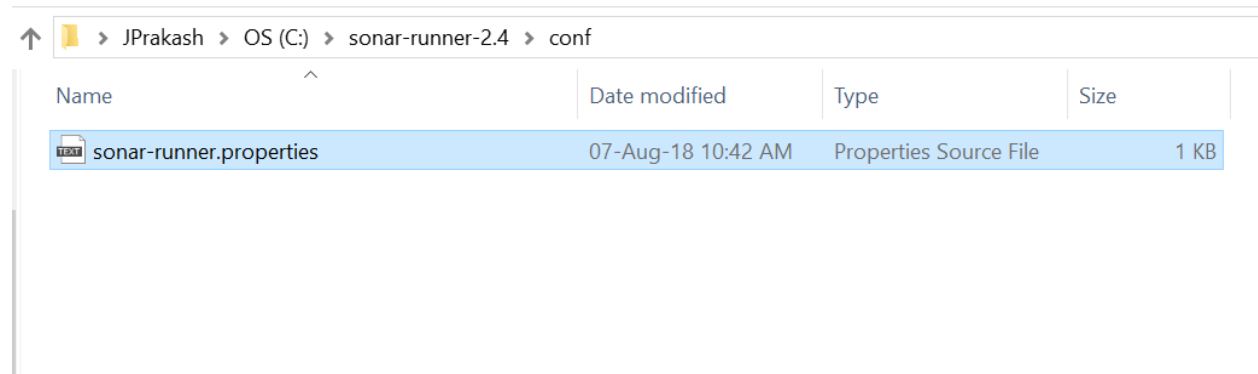
### Step 2:

Go inside “conf” folder.



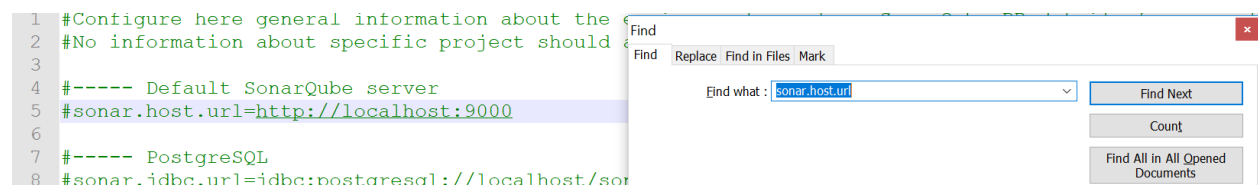
### Step 3:

Select and open “sonar.properties” file with notepad++



### Step 4:

Search for the string “sonar.host.url” in the document. This line would be somewhere around line number 5. 😊





Uncomment that line by removing # from the starting of the line. By default the port assigned to sonar is 9000. This port is blocked by MindTree network. So change it to any available port.

I have used port no 8081 for the purpose.

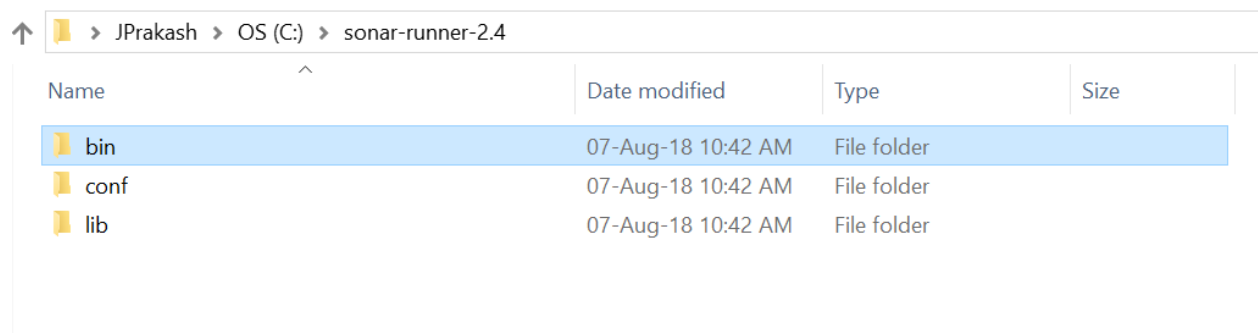
```
1 #Configure here general information about the environment, such as SonarQube DB details for example
2 #No information about specific project should appear here
3
4 #----- Default SonarQube server
5 sonar.host.url=http://localhost:8081
6
7 #----- PostgreSQL
8 #sonar.jdbc.url=jdbc:postgresql://localhost/sonar
9
10 #----- MySQL
11 #sonar.jdbc.url=jdbc:mysql://localhost:3306/sonar?useUnicode=true&characterEncoding=utf8
```

#### Step 5:

Save and close the file.

#### Step 6:

Go back and open “bin” folder from sonar-runner root directory.

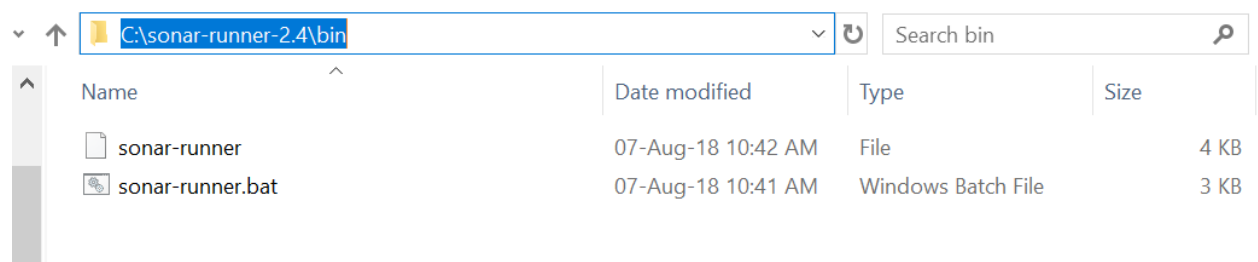


↑ JPrakash > OS (C:) > sonar-runner-2.4

Name	Date modified	Type	Size
bin	07-Aug-18 10:42 AM	File folder	
conf	07-Aug-18 10:42 AM	File folder	
lib	07-Aug-18 10:42 AM	File folder	

#### Step 7:

Go inside bin and copy the path which contains “sonar-runner” in its directory.

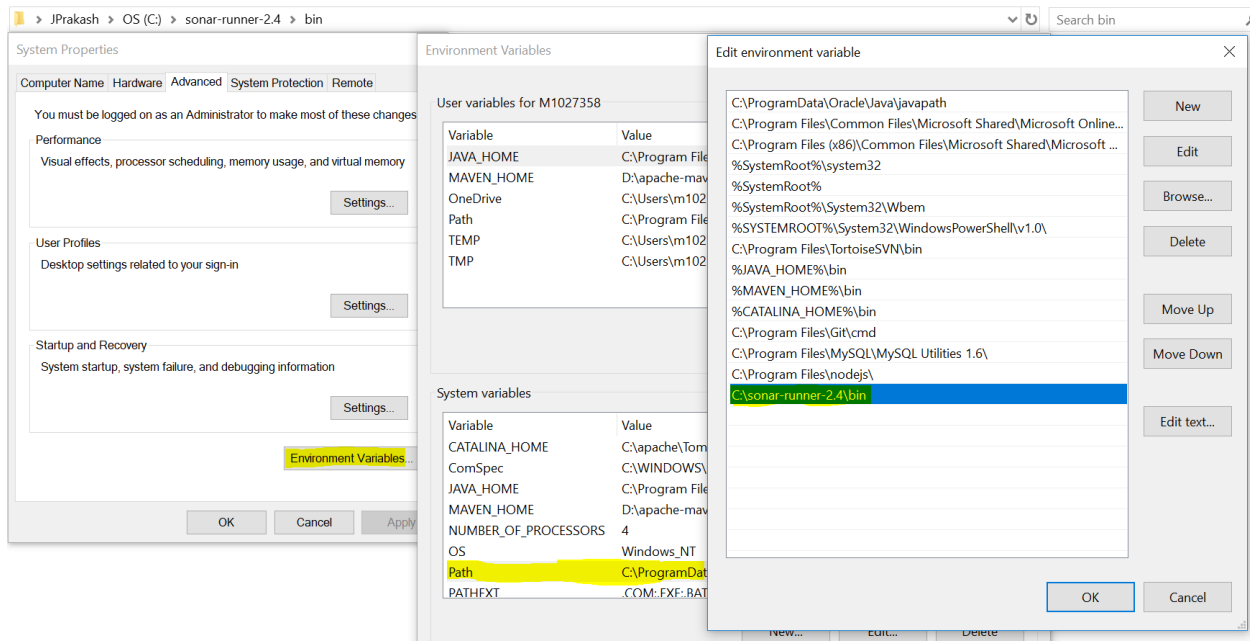


↓ ↑ C:\sonar-runner-2.4\bin Search bin

Name	Date modified	Type	Size
sonar-runner	07-Aug-18 10:42 AM	File	4 KB
sonar-runner.bat	07-Aug-18 10:41 AM	Windows Batch File	3 KB

### Step 8:

Set the copied path in the environment variables. If you are not able to set the path then jump to “Note” in this page.



### Step 8:

Save and close the windows.

### NOTE:

Now our sonar runner is ready to work. 😊 If you were not able to set the environment variable then there is a work around. If you have set the path then only “sonar-runner” will work in the command prompt. If you have not set the path then you have to take help of full path.

i.e. “C:\sonar-runner-2.4\bin\sonar-runner”

But make sure that name of the folder\directory which contain sonar runner do not have gaps.

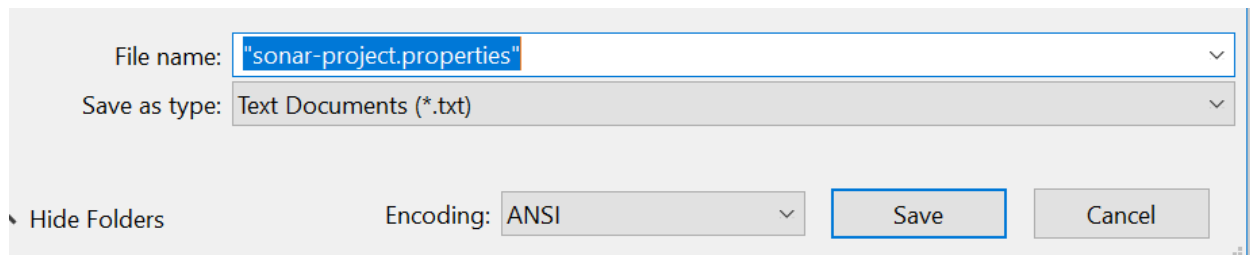
e.g: path “C:\Jyoti Prakash\sonar-runner-2.4\bin\ sonar-runner” will not work as a space is there in “Jyoti Prakash”

Whereas “C:\JyotiPrakash\sonar-runner-2.4\bin\ sonar-runner” will work fine in the future.

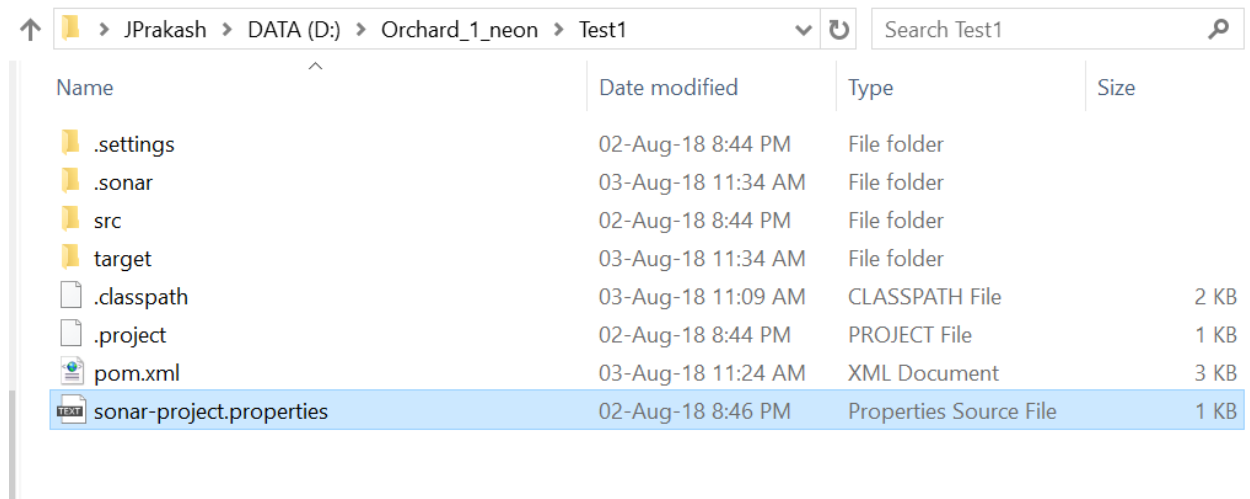
## STEPS TO USE SONARRUNNER AND SONARQUBE TO CHECK A PROJECT:

### Step 1:

Go to root directory of the project which you want to test and create “sonar-project.properties” properties file in the same location. (Create text file and while saving give file name in double quotes and with .properties extension)



Once “.txt” file got converted to “.properties” file then no need to have that text file in that location.

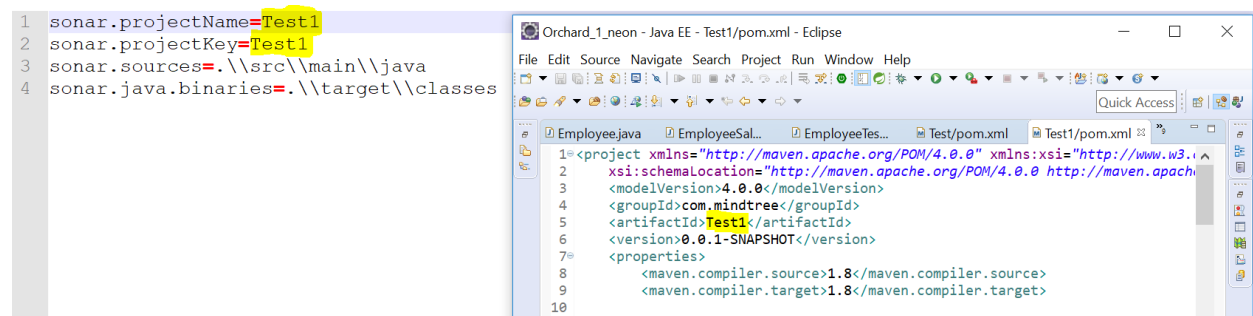


Open that file in notepad++ and add below lines in that document:

```
sonar.projectName=Test1
sonar.projectKey=Test1
sonar.sources=.\src\main\java
sonar.java.binaries=.\target\classes
```

## Step 2:

Open that file using notepad++ and set “sonar.projectName” and “sonar.projectKey” as your artefactId from your pom.xml of that project.



## Step 3:

Have a “property” tag in your pom.xml as :

```
<properties>
  <maven.compiler.source>1.8</maven.compiler.source>
  <maven.compiler.target>1.8</maven.compiler.target>
</properties>
```

So that when we will update the project, it will not go back to other versions.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.mindtree</groupId>
  <artifactId>Test1</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <properties>
    <maven.compiler.source>1.8</maven.compiler.source>
    <maven.compiler.target>1.8</maven.compiler.target>
  </properties>
  <!-- <cobertura.version>2.7</cobertura.version> <sonar.junit.reportsPath>target/surefire-reports</sonar.junit.reportsPath>
    <sonar.cobertura.reportPath>target/site/cobertura/coverage.xml</sonar.cobertura.reportPath> -->
  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.12</version>
    </dependency>
  </dependencies>
```

## NOTE:

Make sure to paste properties tag before <dependencies>. And if you already have a properties tag then add only these lines in that properties tag:

```
<maven.compiler.source>1.8</maven.compiler.source>
<maven.compiler.target>1.8</maven.compiler.target>
```

Remember, a pom cannot have multiple <properties> tag. ☺

## OR:

Have this <plugin> in your <build> -> <plugins>

```
<plugin>
  <artifactId>maven-compiler-plugin</artifactId>
  <version>3.5.1</version>
  <configuration>
    <source>1.8</source>
    <target>1.8</target>
  </configuration>
</plugin>
```

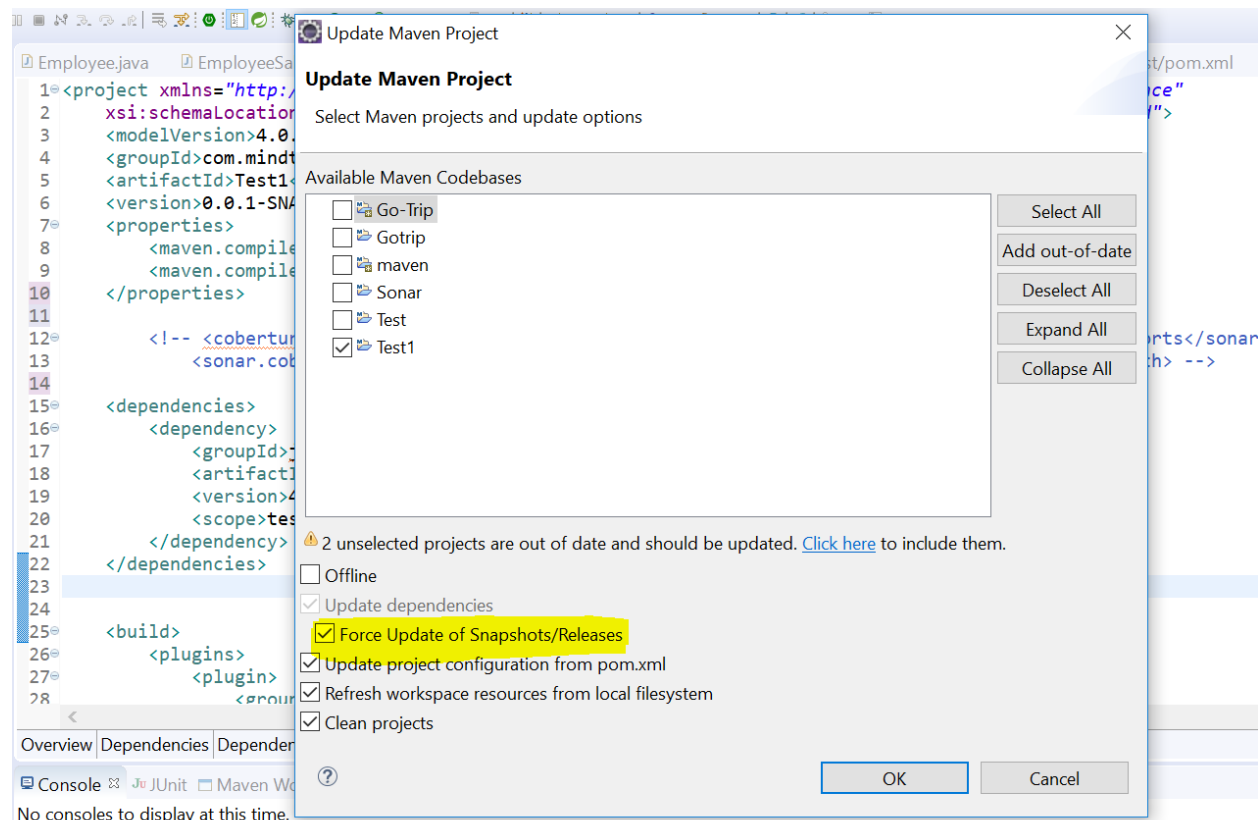
## NOTE:

Make sure to paste <plugin> inside <plugins> which is inside <build>. <build> tag must be present after dependencies.

Remember, a pom cannot have multiple <build> tag. 😊

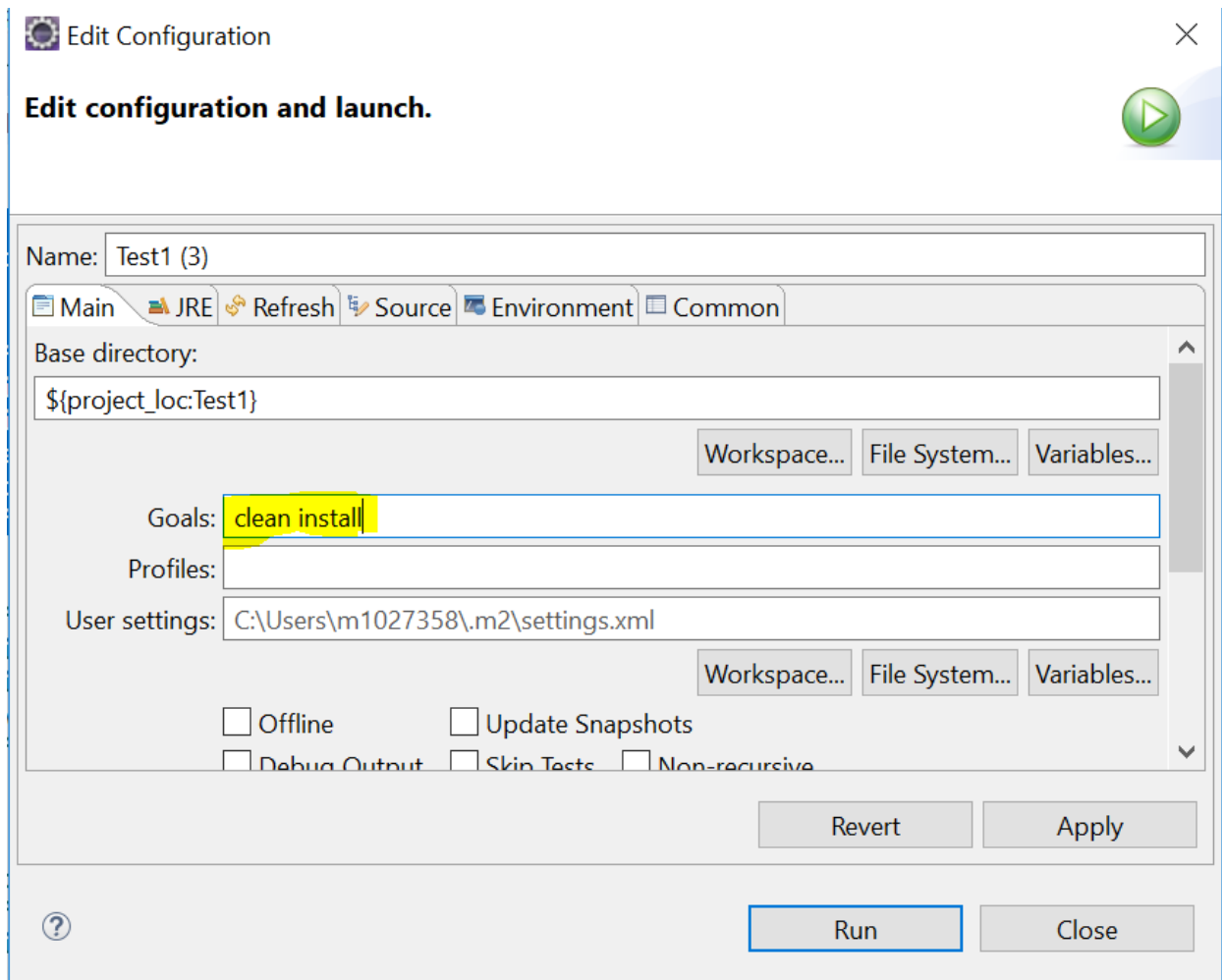
## Step 4:

Update the project after checking “Force Update of Snapshots/Releases”. And wait till building of workspace is completed. (Which can be seen in bottom right corner of eclipse)



#### Step 5:

Do a “clean install” in your project.



#### Step 6:

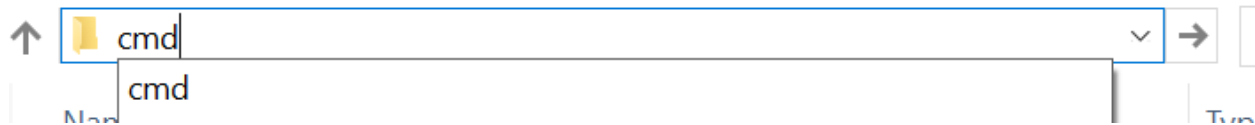
If you are getting “BUILD SUCCESS” then you are ready for next step. Else first fix your project.

#### Step 7:

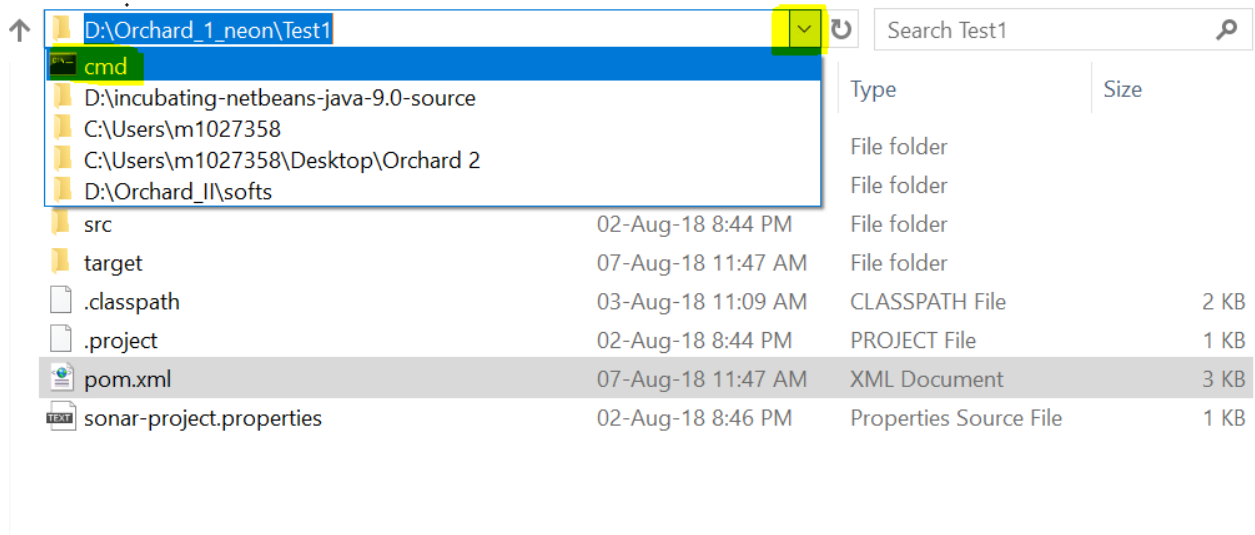
Then go to root directory of the project and open command prompt from there by typing “cmd” in that path directly:



->



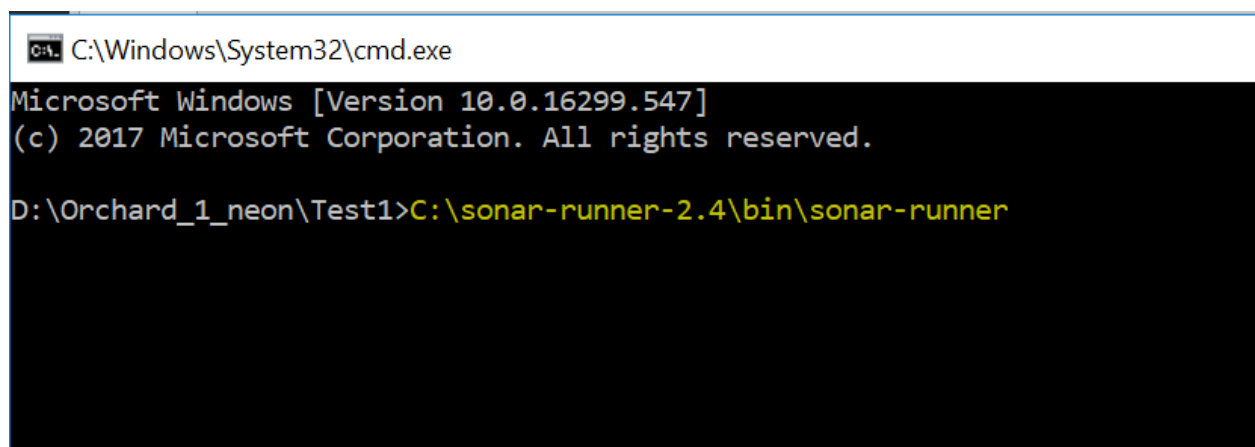
or



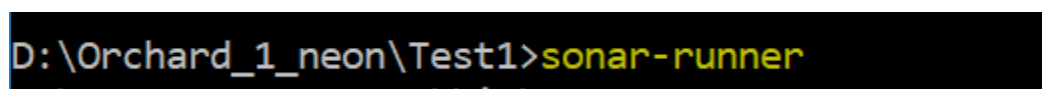
Or by going to that root directory through command prompt.

#### Step 8:

If you have not set sonar-runner path in environment variable then use full path of sonar runner.



If you have set the path of sonar-runner in the environment variable then only "sonar-runner" will do the same.



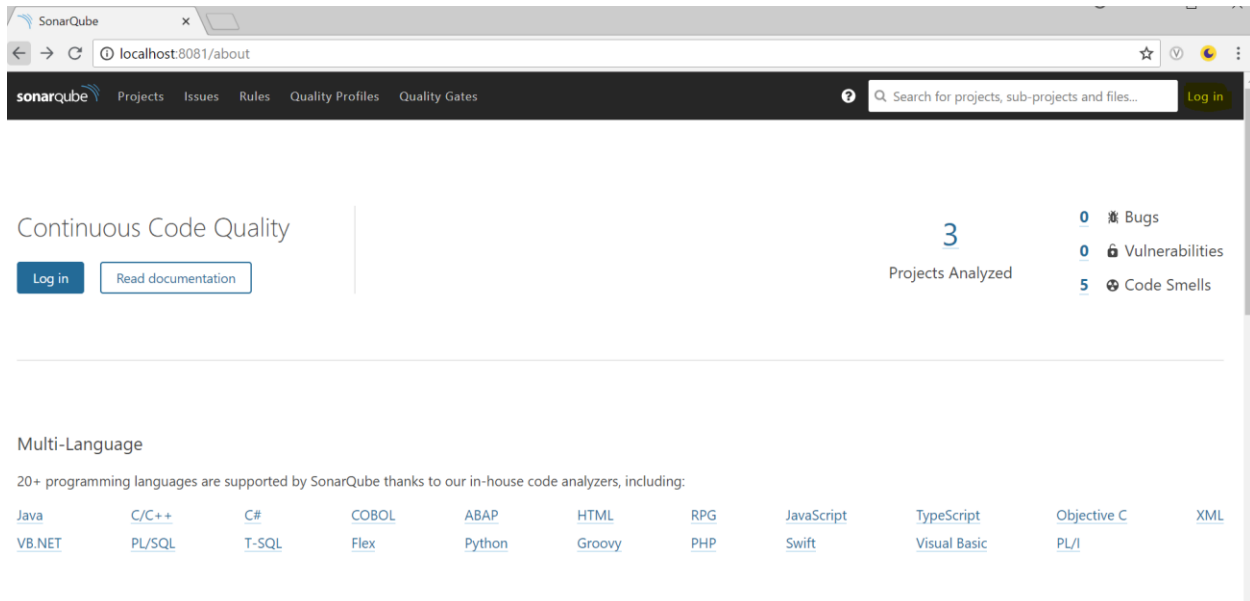
### Step 9:

Wait for the message “EXECUTION SUCCESS” at the end. If it fails then you might have skipped some step 😊

### Step 10:

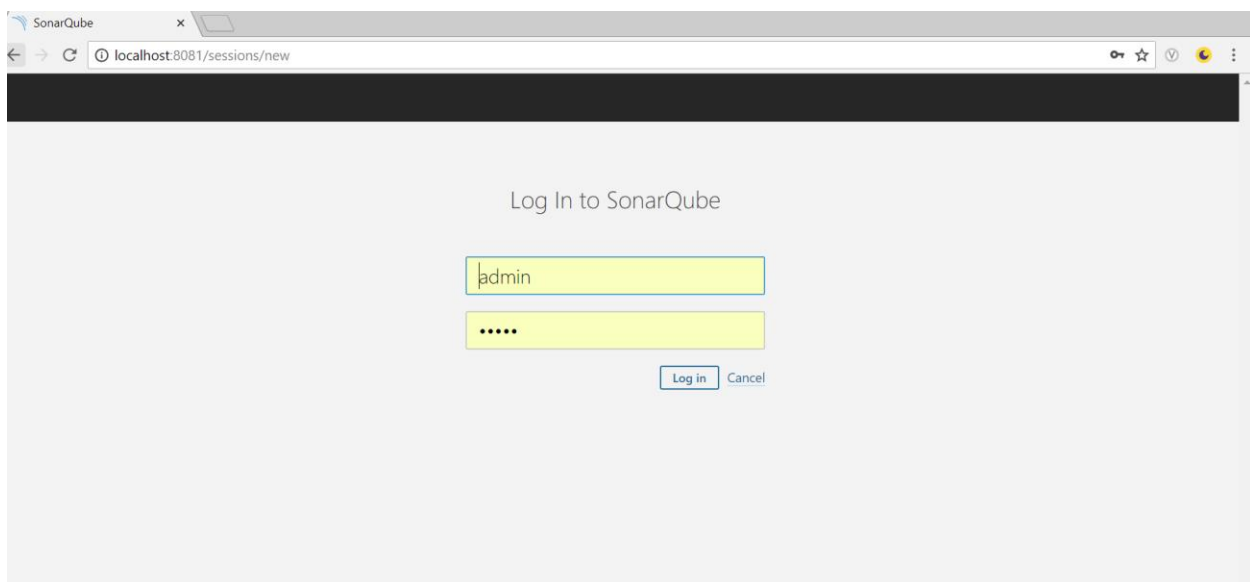
Put URL <http://localhost:8081> in the browser. (I used 8081 coz I have set SonarQube server port as 8081)

You should be able to see below page



### Step 11:

Click on “Log in” button on top right corner. And you should be able to see below page:





## Step 12:

Enter username and password both as “admin” and click on “Log in”. You will be able to see your project in the sonar server.

The screenshot displays the SonarQube web interface at the URL `localhost:8081/projects`. The interface includes a top navigation bar with tabs for Projects, Issues, Rules, Quality Profiles, Quality Gates, and Administration. A search bar is located on the right side of the top bar. Below the navigation bar, there is a filter section on the left with tabs for 'My Favorites' and 'All'. The main content area shows a list of projects. The first project, 'Test', is highlighted and shows a 'Passed' status. It has 0 Bugs, 0 Vulnerabilities, 1 Code Smell, 0.0% Coverage, and 0.0% Duplications. The last analysis was performed on August 6, 2018, at 9:52 PM. The second project, 'Test1', also shows a 'Passed' status but has 2 Code Smells, 50.0% Coverage, and 0.0% Duplications. The last analysis was performed on August 7, 2018, at 11:59 AM. A red warning banner at the bottom states: 'Embedded database should be used for evaluation purpose 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.' The footer indicates that SonarQube technology is powered by SonarSource SA.

Project	Status	Bugs	Vulnerabilities	Code Smells	Coverage	Duplications	Last Analysis	Files	Language
Test	Passed	0	0	1	0.0%	0.0%	August 6, 2018, 9:52 PM	49	XML, Java
Test1	Passed	0	0	2	50.0%	0.0%	August 7, 2018, 11:59 AM	9	Java

## STEPS TO USE SONARQUBE (ALONE) TO CHECK A PROJECT:

~~~~~

### Step 1:

Have a “property” tag in your pom.xml as :

```
<properties>
    <maven.compiler.source>1.8</maven.compiler.source>
    <maven.compiler.target>1.8</maven.compiler.target>
</properties>
```

So that when we will update the project, it will not go back to other versions.

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.mindtree</groupId>
  <artifactId>Test1</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <properties>
    <maven.compiler.source>1.8</maven.compiler.source>
    <maven.compiler.target>1.8</maven.compiler.target>
  </properties>
  <!-- <cobertura.version>2.7</cobertura.version> <sonar.junit.reportsPath>target/surefire-reports</sonar.junit.reportsPath>
    <sonar.cobertura.reportPath>target/site/cobertura/coverage.xml</sonar.cobertura.reportPath> -->

  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.12</version>
    </dependency>
  </dependencies>
```

### NOTE:

Make sure to paste properties tag before <dependencies>. And if you already have a properties tag then add only these lines in that properties tag:

```
<maven.compiler.source>1.8</maven.compiler.source>
<maven.compiler.target>1.8</maven.compiler.target>
```

Remember, a pom cannot have multiple <properties> tag. ☺

## **OR:**

Have this <plugin> in your <build> -> <plugins>

```
<plugin>
  <artifactId>maven-compiler-plugin</artifactId>
  <version>3.5.1</version>
  <configuration>
    <source>1.8</source>
    <target>1.8</target>
  </configuration>
</plugin>
```

#### NOTE:

Make sure to paste <plugin> inside <plugins> which is inside <build>. <build> tag must be present after dependencies.

Remember, a pom cannot have multiple <build> tag. 😊

#### Step 2:

Add below line in properties tag

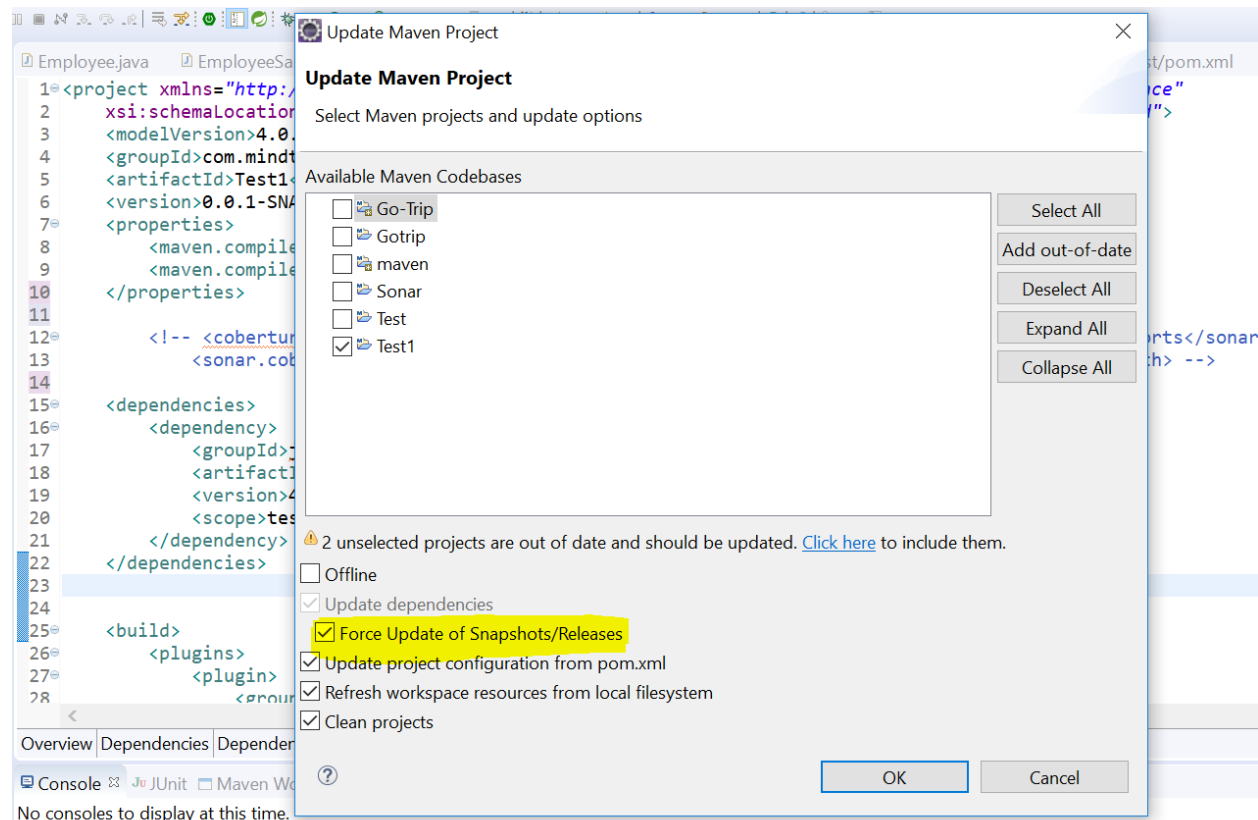
```
<sonar.host.url>http://localhost:8081</sonar.host.url>
```

And add below plugin in <plugins> present in <build> tag

```
<plugin>
  <groupId>org.sonarsource.scanner.maven</groupId>
  <artifactId>sonar-maven-plugin</artifactId>
  <version>3.2</version>
</plugin>
```

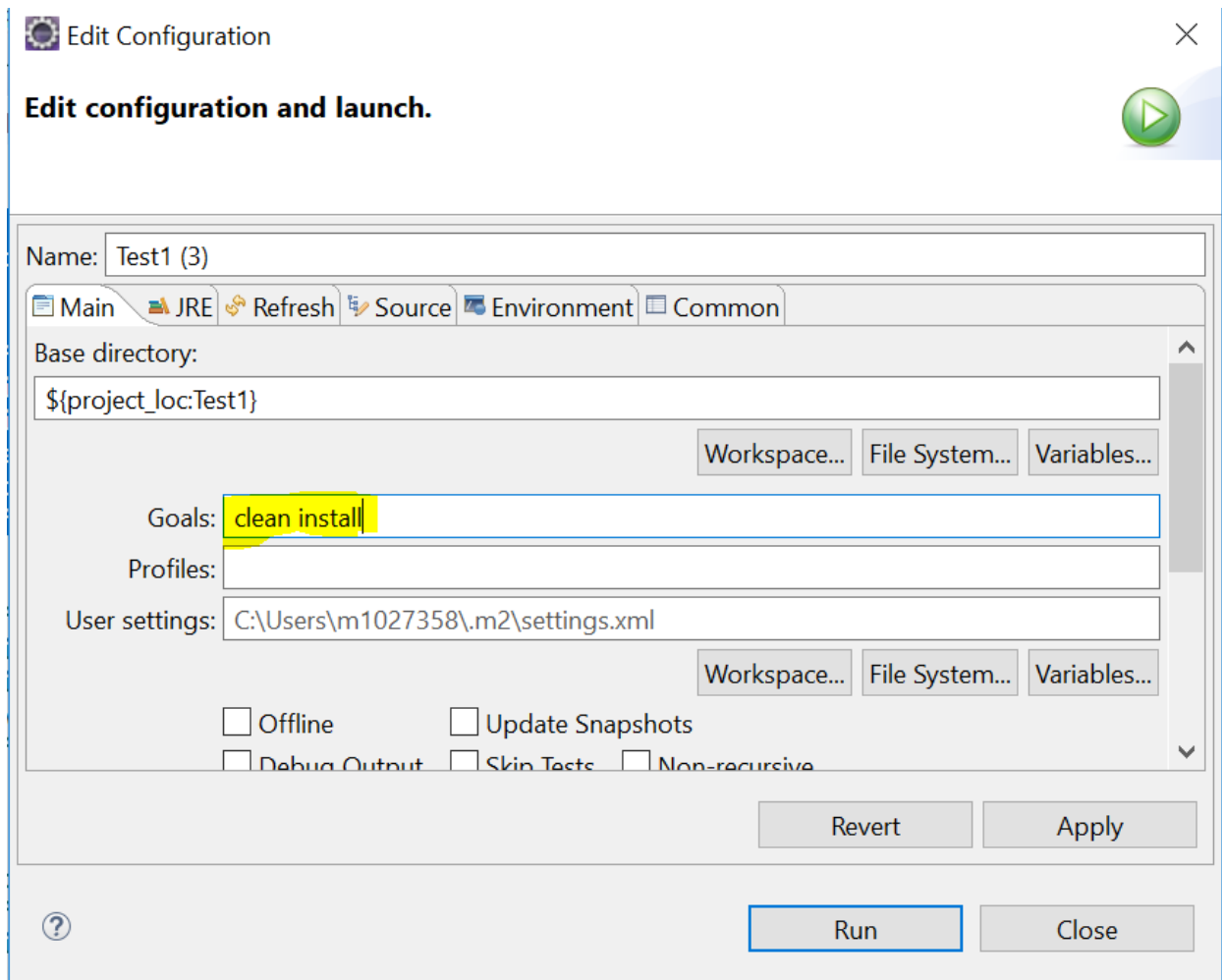
#### Step 3:

Update the project after checking “Force Update of Snapshots/Releases”. And wait till building of workspace is completed. (Which can be seen in bottom right corner of eclipse)



#### Step 4:

Do a “clean install” in your project.



#### Step 5:

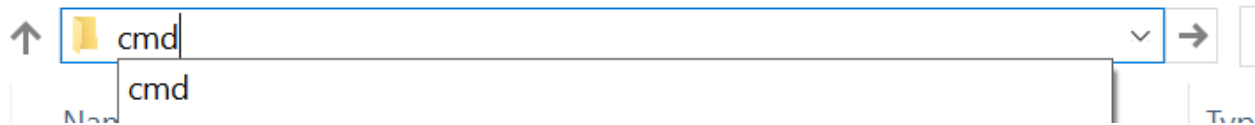
If you are getting “BUILD SUCCESS” then you are ready for next step. Else first fix your project.

#### Step 6:

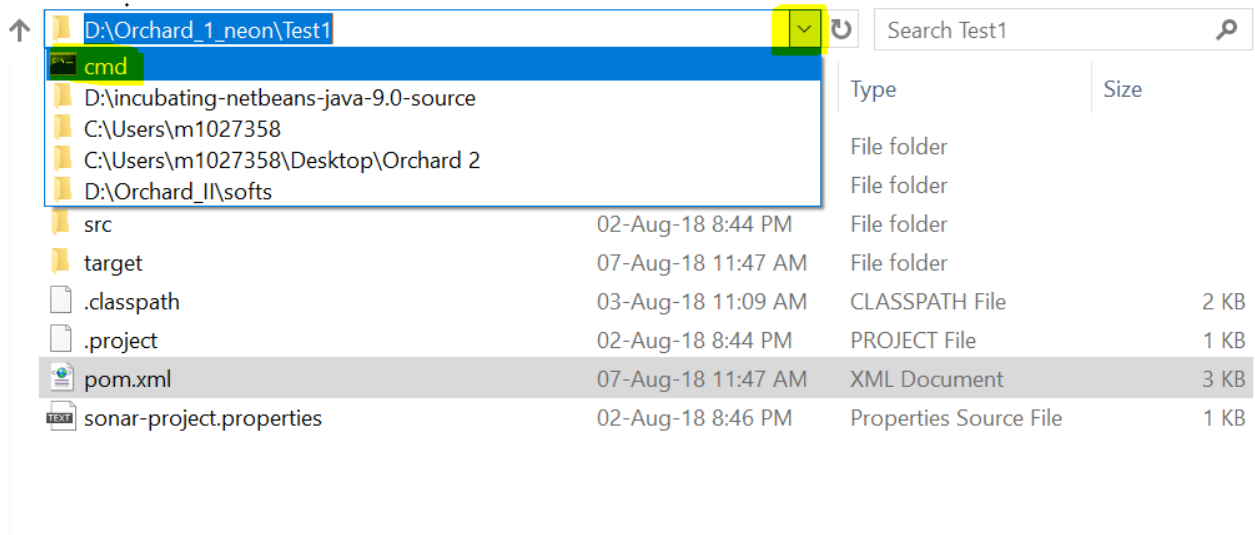
Then go to root directory of the project and open command prompt from there by typing “cmd” in that path directly:



->



or



Or by going to that root directory through command prompt.

Step 7:

Insert maven command "**mvn sonar::sonar**" in the command prompt.

```
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D:\Orchard_1_neon\Test>mvn sonar::sonar
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building Test 0.0.1-SNAPSHOT
[INFO] -----
[INFO] --- sonar-maven-plugin:3.2:sonar (default-cli) @ Test ---
[INFO] User cache: C:\Users\m1027358\.sonar\cache
[INFO] Publish mode
[INFO] Load global settings
```

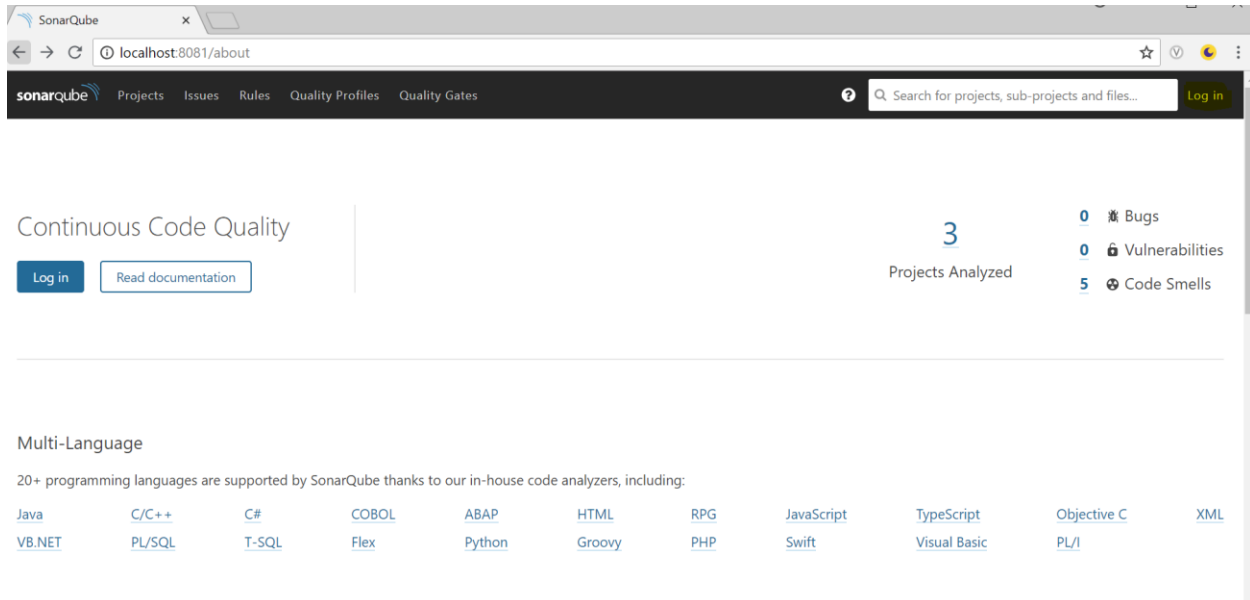
Step 8:

Wait for the message "BUILD SUCCESS" at the end. If it fails then you might have skipped some step☺

### Step 9:

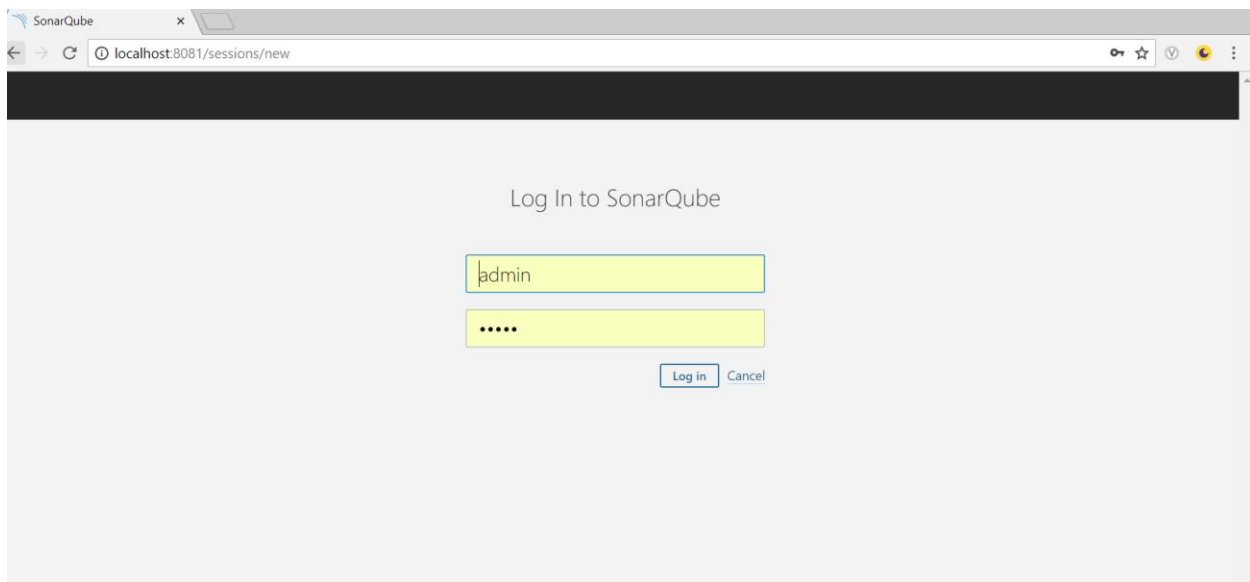
Put URL <http://localhost:8081> in the browser. (I used 8081 coz I have set SonarQube server port as 8081)

You should be able to see below page



### Step 10:

Click on “Log in” button on top right corner. And you should be able to see below page:



### Step 11:

Enter username and password both as “admin” and click on “Log in”. You will be able to see your project in the sonar server.

The screenshot displays the SonarQube web interface at the URL `localhost:8081/projects`. The interface includes a top navigation bar with tabs for Projects, Issues, Rules, Quality Profiles, Quality Gates, and Administration. A search bar is located on the right of the navigation bar. Below the navigation bar, there is a sidebar on the left with filters for Quality Gate, Reliability (Bugs), and Security (Vulnerabilities). The main content area shows a list of projects. The first project, 'Test', is highlighted and shows a 'Passed' status. It has 0 Bugs, 0 Vulnerabilities, 1 Code Smell, 0.0% Coverage, and 0.0% Duplications. The last analysis was on August 6, 2018, at 9:52 PM. The second project, 'Test1', also shows a 'Passed' status. It has 0 Bugs, 0 Vulnerabilities, 2 Code Smells, 50.0% Coverage, and 0.0% Duplications. The last analysis was on August 7, 2018, at 11:59 AM. At the bottom of the interface, there is a red warning box stating: 'Embedded database should be used for evaluation purpose 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.' Below the warning box, it says 'SonarQube™ technology is powered by SonarSource SA' and 'Version 7.1 (build 11/001) - LGPL v2 - Community - Documentation - Get Support - Plugins - Web API - About'.

I hope this document has helped you in initial setups. If you find any scope of improving this knowledge then feel free to write back.

Thank you,

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Welcome to possible