

Don Bosco Institute of Technology, Mumbai 400070

Department of Information Technology

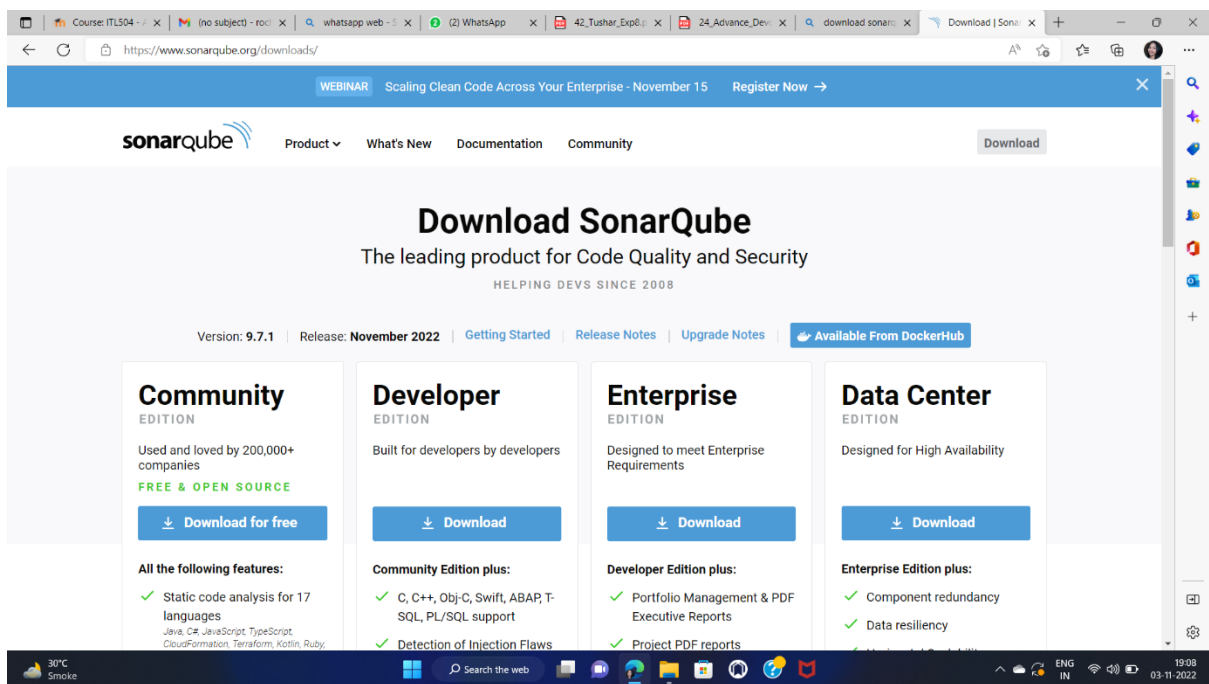
Name: Irin Roche

Sem: 5, Branch: IT, Batch: 1

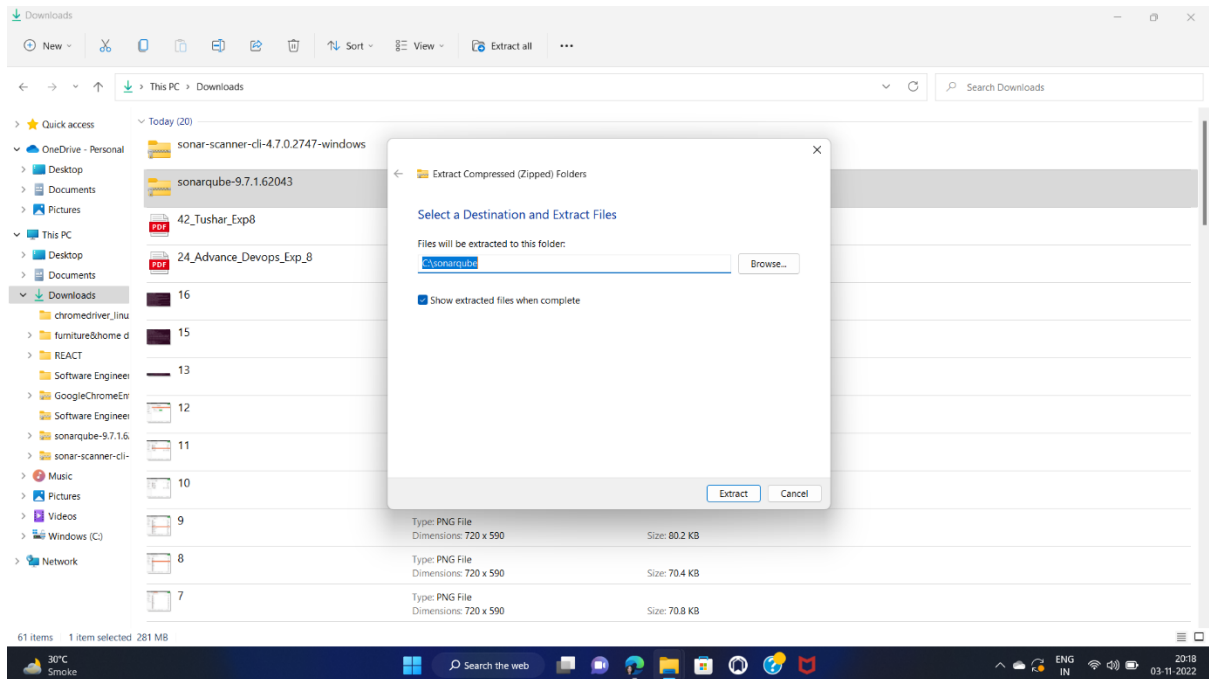
Experiment No.7&8

22_Irin Roche

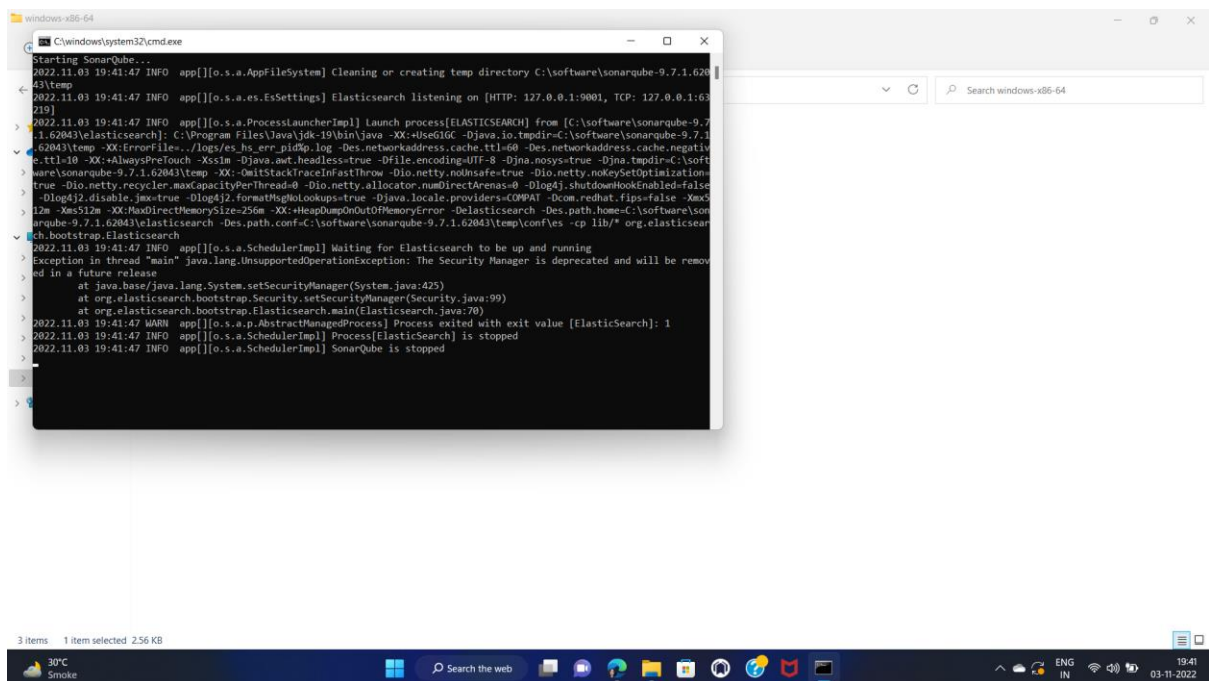
To understand the Static Analysis SAST process and show the analysis of any web based application



Download and install Java 11 on your system. 3. As a non-rootuser, unzip it, let's say in C:\sonarqube or /opt/sonarqube.



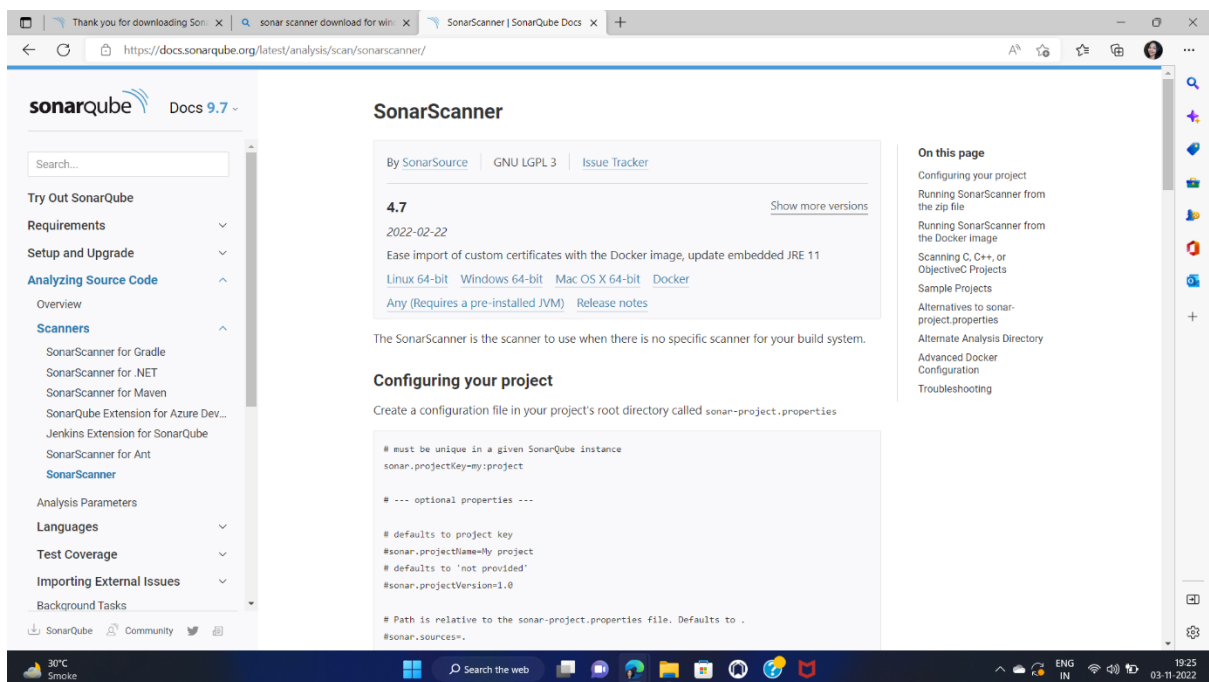
As a non-root user, start the SonarQube Server

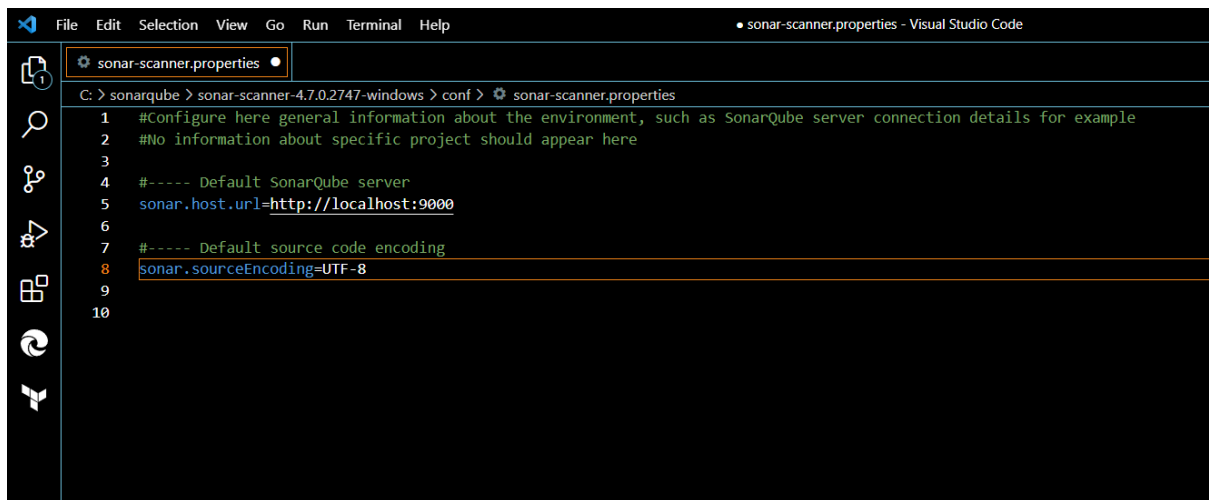
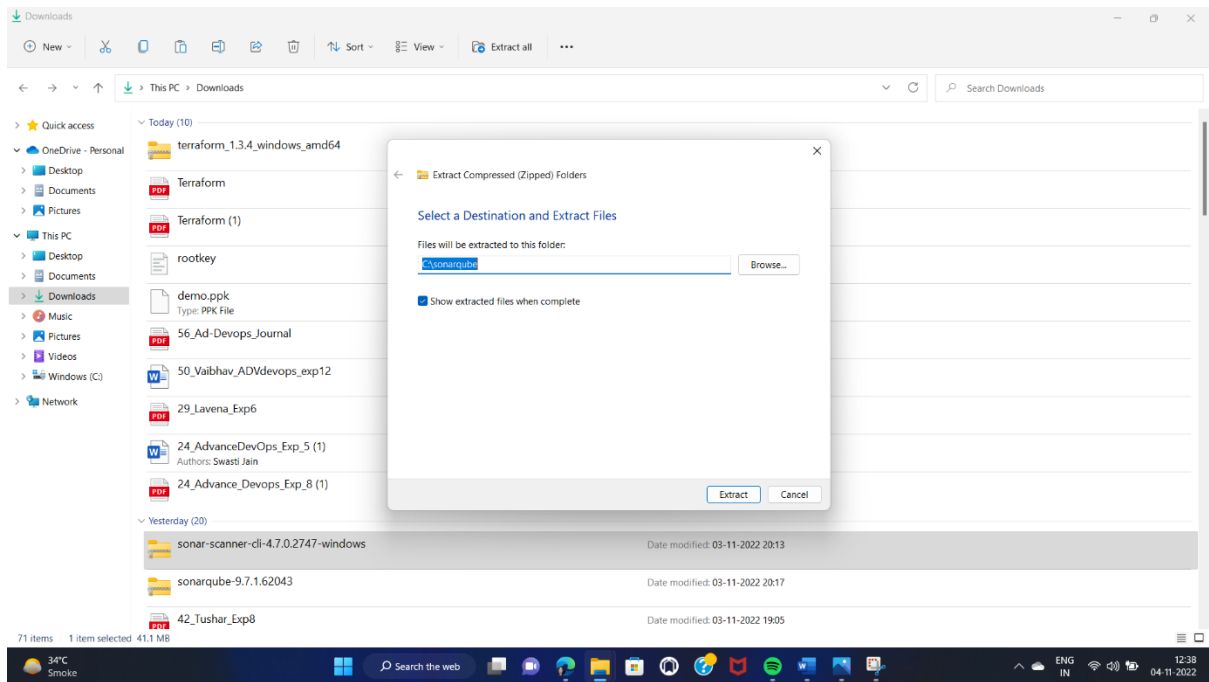


Once your instance is up and running, Log in to <http://localhost:9000> using System Administrator credentials

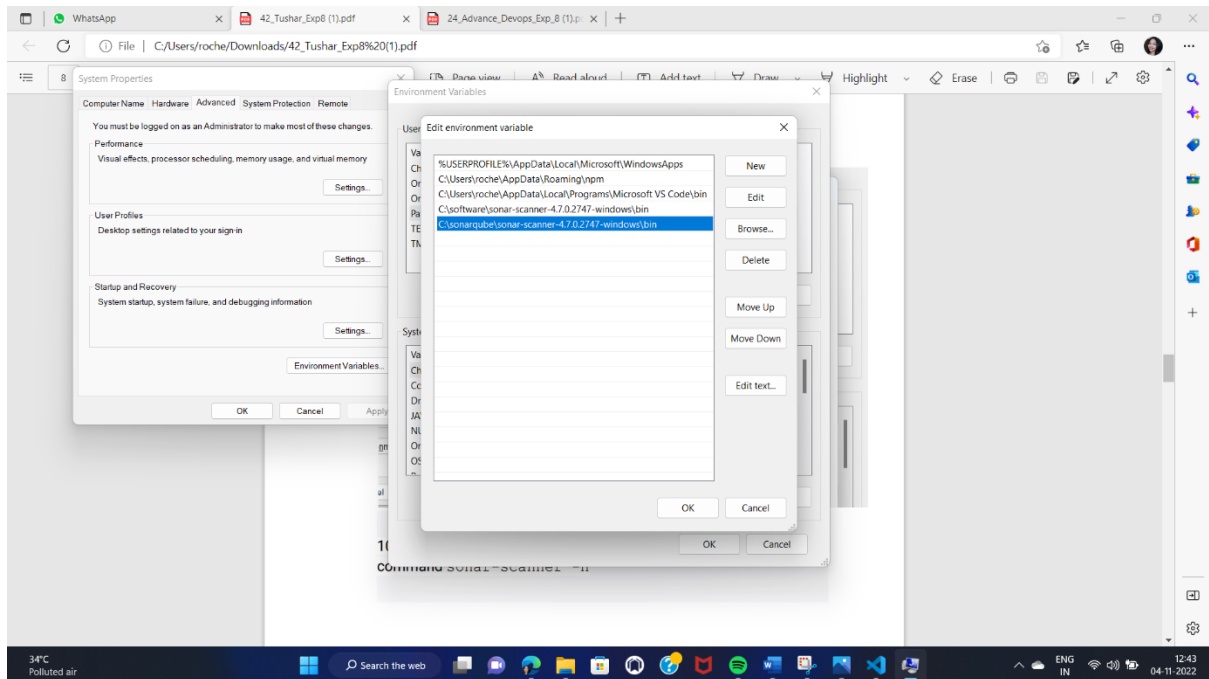


Install sonar scanner from the official link and extract it to the same folder where sonarqube has been installed
<https://docs.sonarqube.org/latest/analysis/scan/sonarscanner> Conf>sonar-scanner





9. Add the bin path of sonarscanner into the environment variables of your system



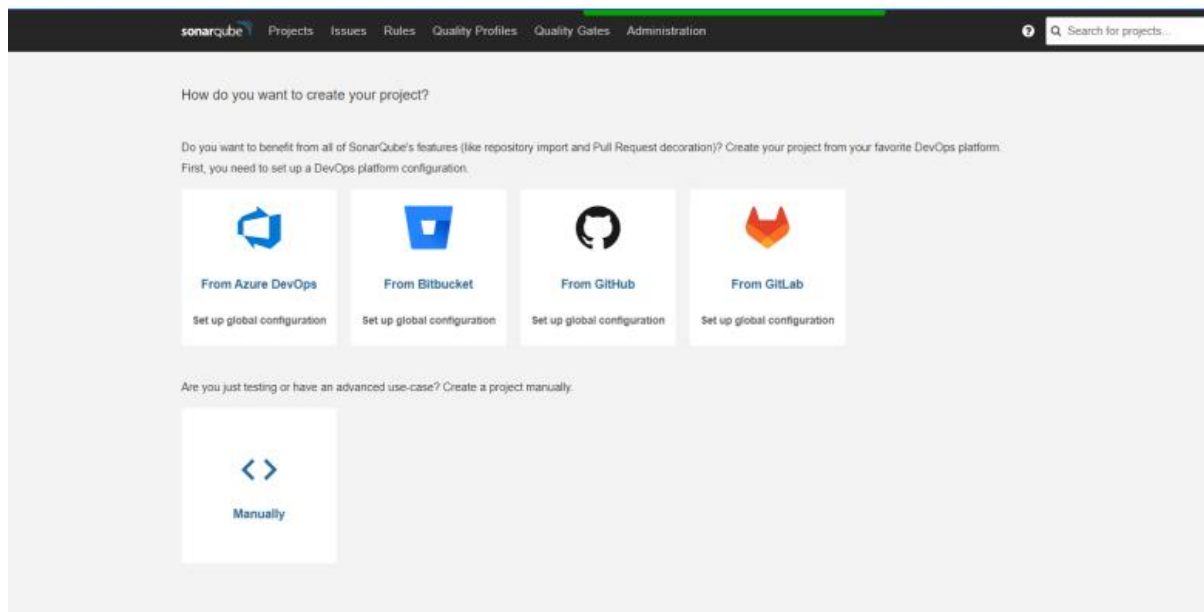
10. Verify your installation by opening a new shell and executing the command sonar-scanner -h

```
Command Prompt
Microsoft Windows [Version 10.0.22000.1098]
(c) Microsoft Corporation. All rights reserved.

C:\Users\roche>sonar-scanner -h
INFO:
INFO: usage: sonar-scanner [options]
INFO:
INFO: Options:
INFO: -D,--define <arg>      Define property
INFO: -h,--help              Display help information
INFO: -v,--version            Display version information
INFO: -X,--debug             Produce execution debug output

C:\Users\roche>
```

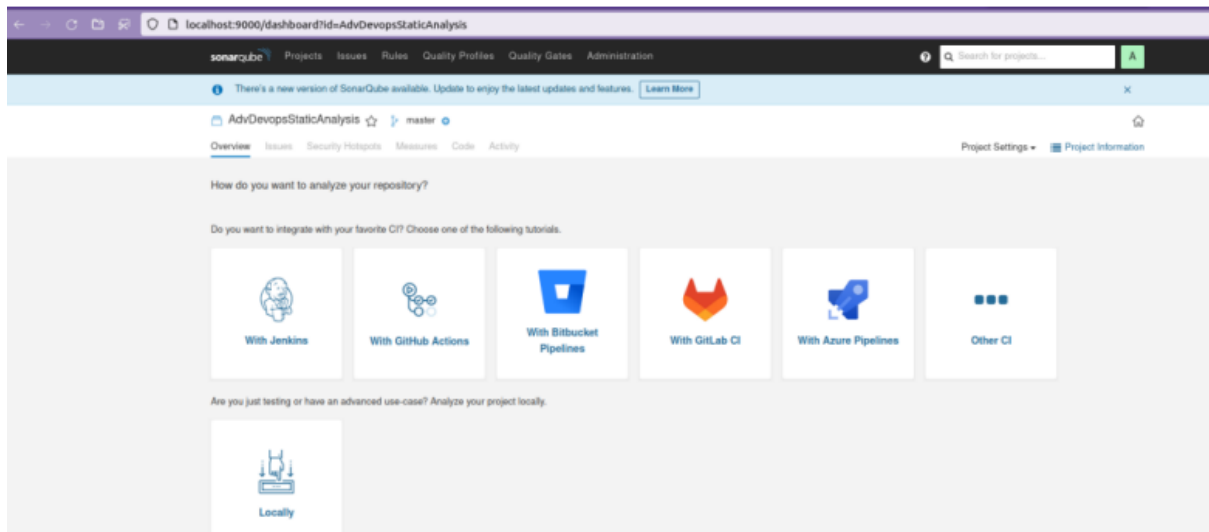
11. Now that our sonar-scanner is installed, we will create a project in our sonarqube that is logged in through <http://localhost:9000/projects/create>



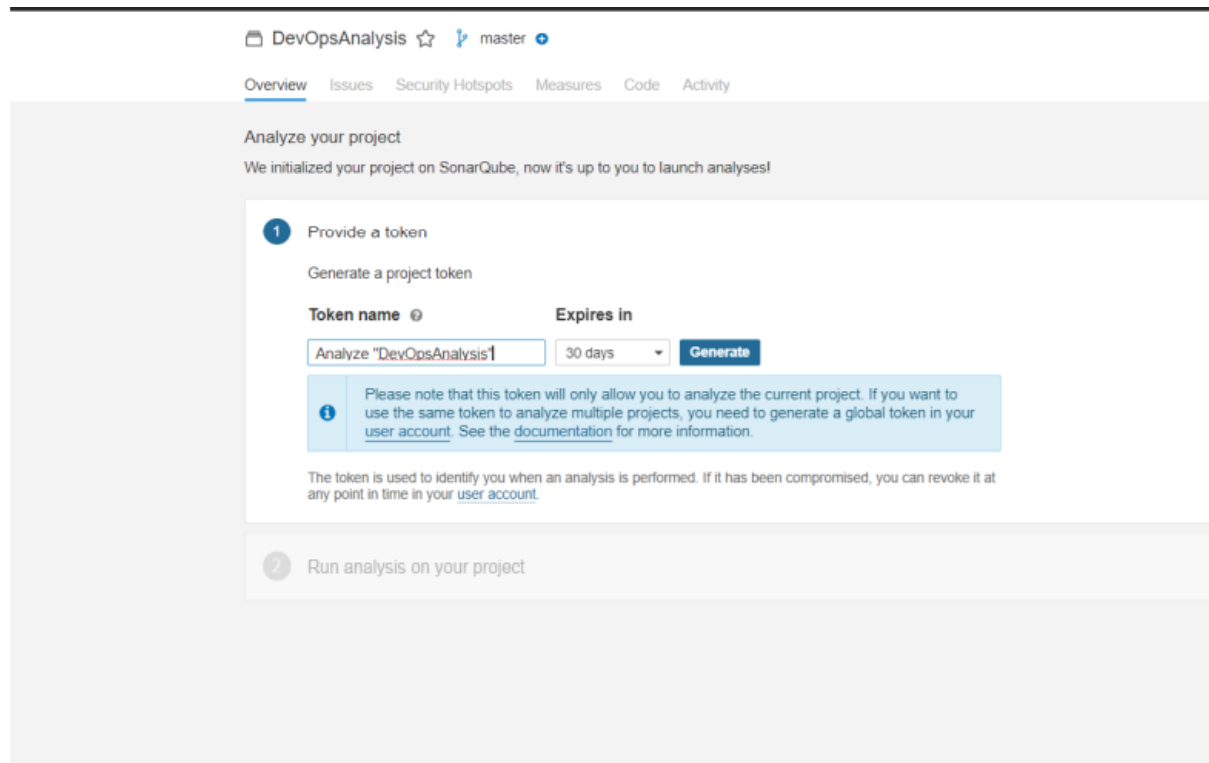
12. Click on manually and create the project by giving in the values for the asked fields

The screenshot shows the SonarQube web interface at the URL <http://localhost:9000/projects/create>. The page title is "Create a project". Below the title, there is a message: "All fields marked with * are required". There are two required fields: "Project display name *" and "Project key *". Both fields have the value "DevOpsAnalysis" entered. The "Project display name" field has a green checkmark next to it. The "Project key" field has a green checkmark next to it. Below the "Project key" field, there is a message: "The project key is a unique identifier for your project. It may contain up to 400 characters. Allowed characters are alphanumeric, '-' (dash), '_' (underscore), '.' (period) and ':' (colon), with at least one non-digit." At the bottom of the form, there is a "Set Up" button.

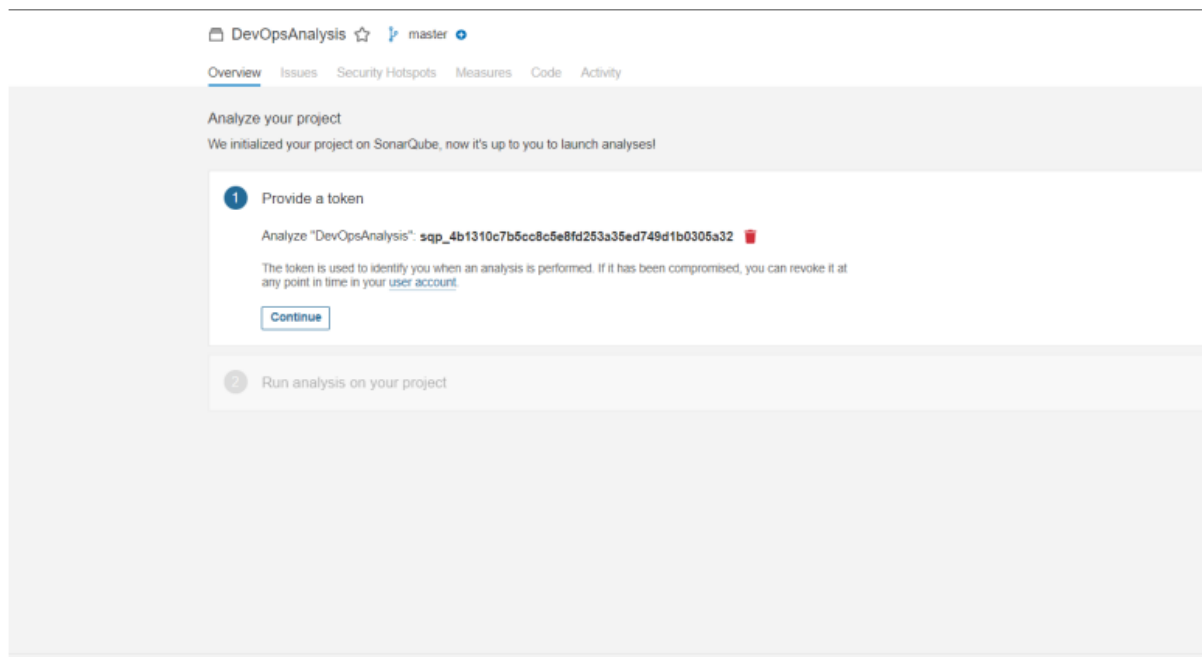
13. It will look something like this after clicking set up, now in order to analyze the code, click on locally



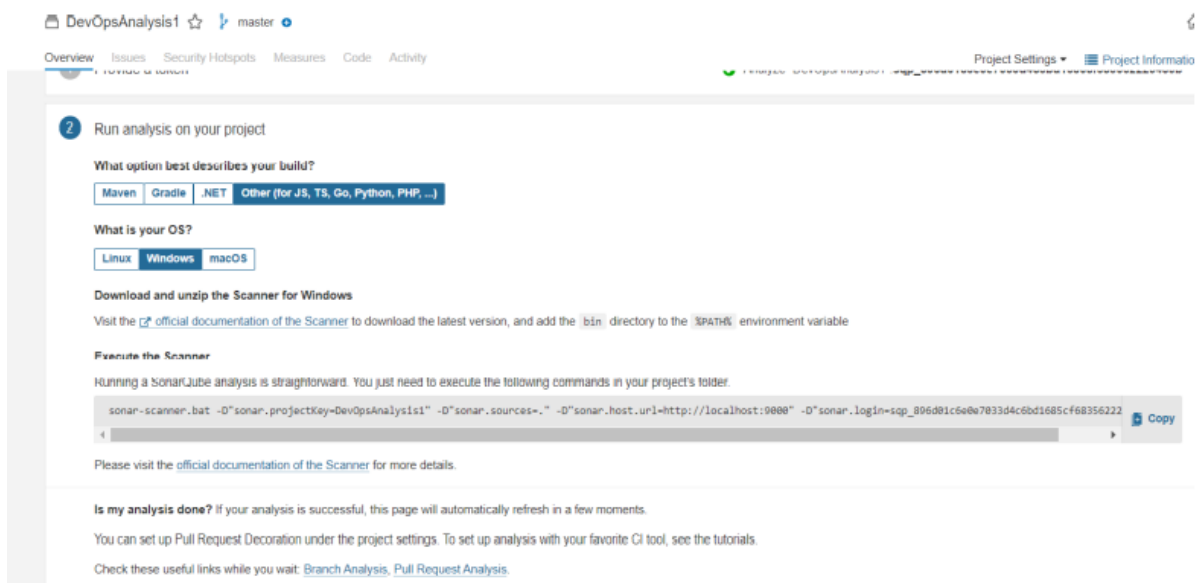
14. Click on generate a token



The following output will be received



15. After the token is copied and clicked on continue, then choose your project type In this case it falls under others



16. Now go the root of your project directory and run the command given by the sonar scanner

```
Command Prompt
Microsoft Windows [Version 10.0.22000.1098]
(c) Microsoft Corporation. All rights reserved.

C:\Users\roche>sonar-scanner -h
INFO:
INFO: usage: sonar-scanner [options]
INFO:
INFO: Options:
INFO: -D,--define <arg>      Define property
INFO: -h,--help              Display help information
INFO: -v,--version            Display version information
INFO: -X,--debug             Produce execution debug output

C:\Users\roche>sonar-scanner.bat
INFO: Scanner configuration file: C:\sonarqube\sonar-scanner-4.7.0.2747-windows\bin\..\conf\sonar-scanner.properties
INFO: Project root configuration file: NONE
INFO: SonarScanner 4.7.0.2747
INFO: Java 11.0.14.1 Eclipse Adoptium (64-bit)
INFO: Windows 11 10.0 amd64
INFO: User cache: C:\Users\roche\.sonar\cache
ERROR: SonarQube server [http://localhost:9000] can not be reached
INFO: -----
```

Now we can see the results in our sonarqube dashboard under our project

