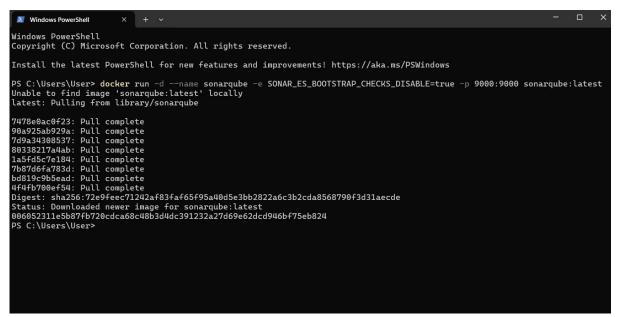
EXPERIMENT 7

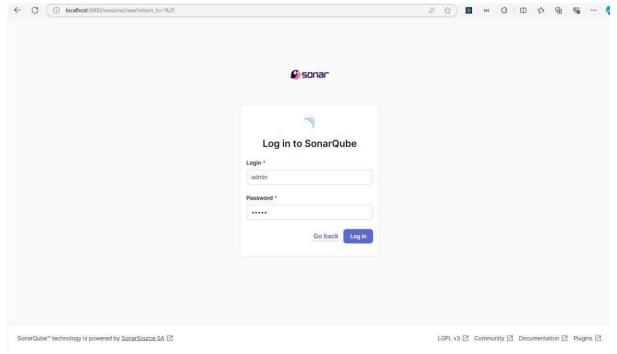
Aim: To understand Static Analysis SAST process and learn to integrate Jenkins SAST to SonarQube/GitLab.

Step 1: Open Windows PowerShell and run the following command –

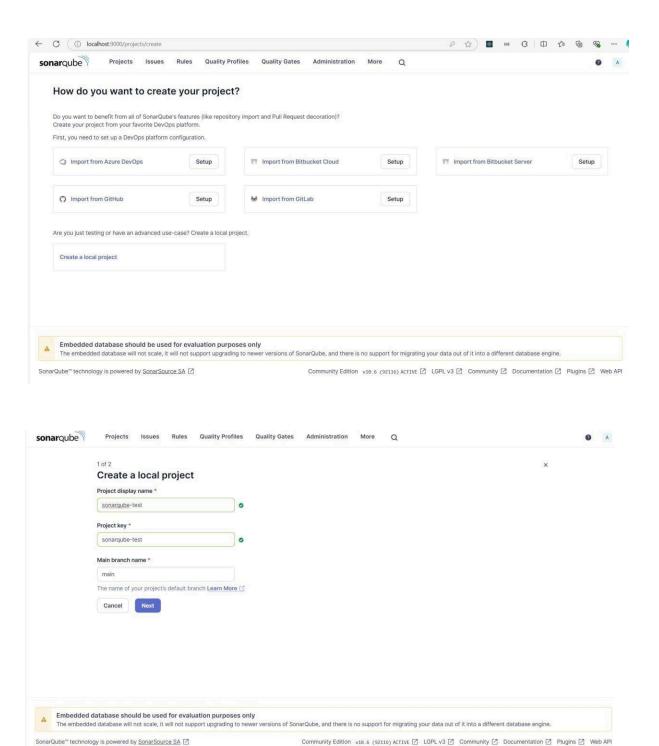
docker run -d --name sonarqube -e SONAR_ES_BOOTSTRAP_CHECKS_DISABLE=true -p 9000:9000 sonarqube:latest WARNING: Run the following command only once

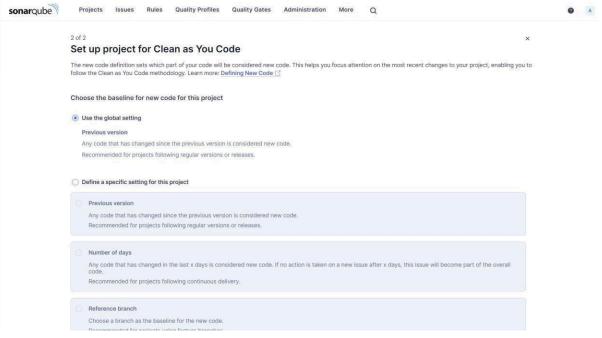


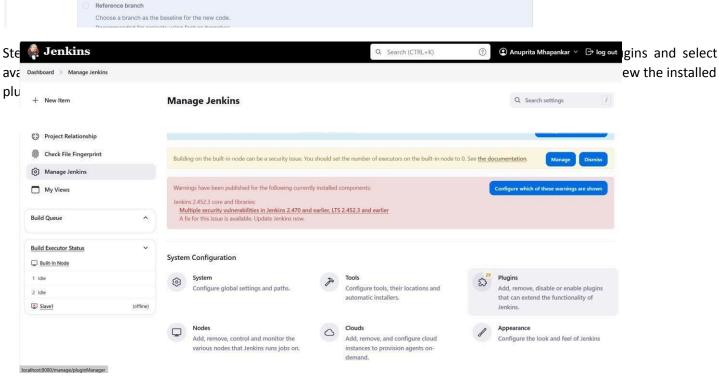
Step 2: Visit http://localhost:9000/ to open SonarQube. Login with username: admin and password: admin.



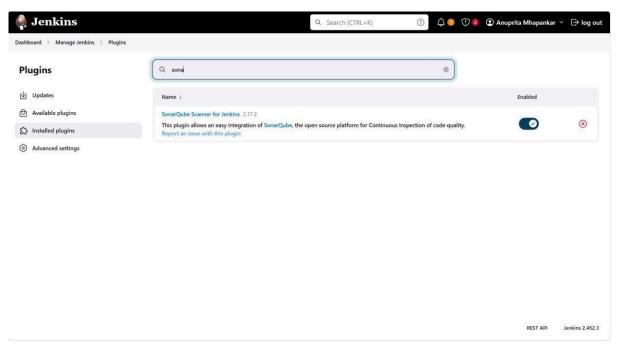
Step 3: Click on create a local project and name the project as sonarqube-test and key as sonarqube-test and click on the next button. In the next step select the "Use the global setting" option and click on create project.

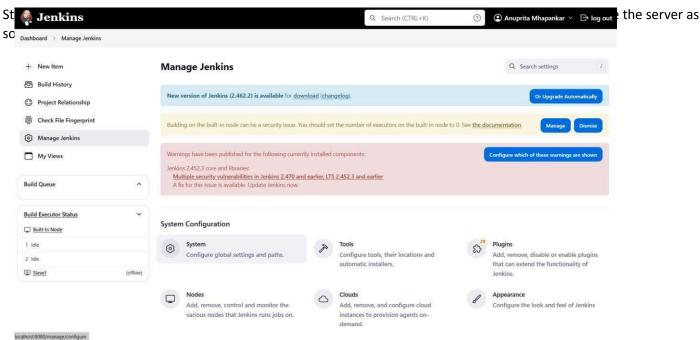


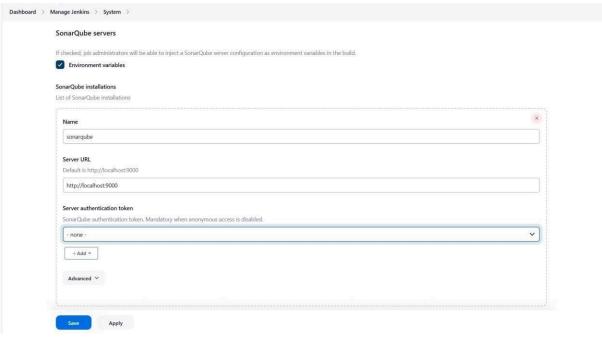


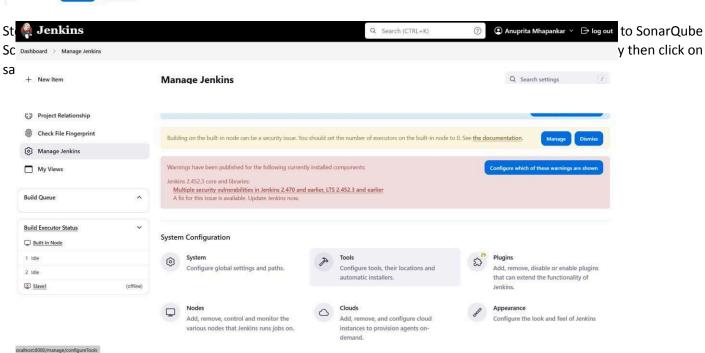


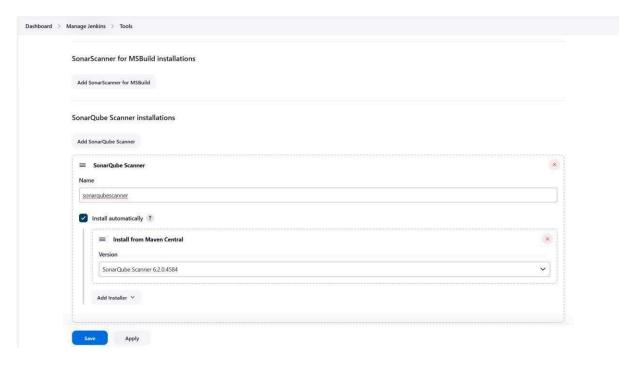
ew the installed



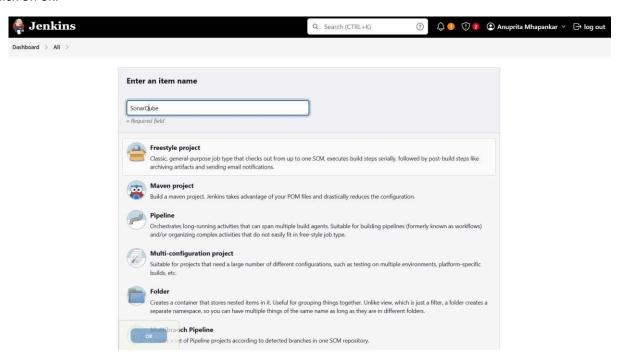






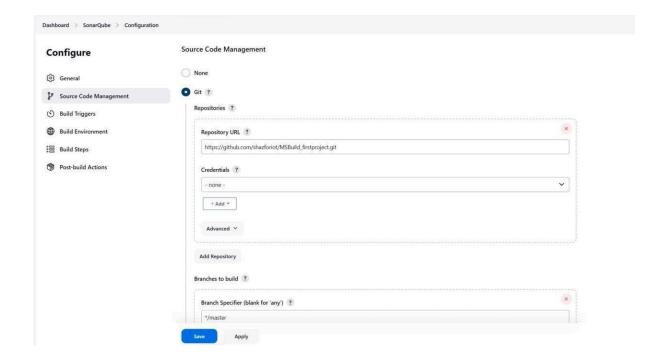


Step 7: Go to Jenkins dashboard and click on New Item and select Freestyle project and name it as SonarQube and then click on ok.



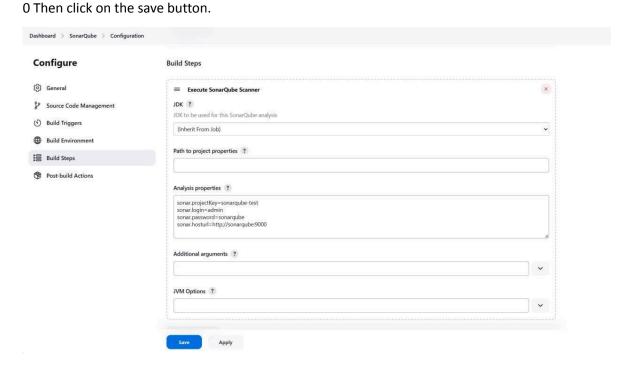
Step 8: For configuration, Select git and paste the following git repository in the repository url. https://github.com/shazforiot/MSBuild firstproject

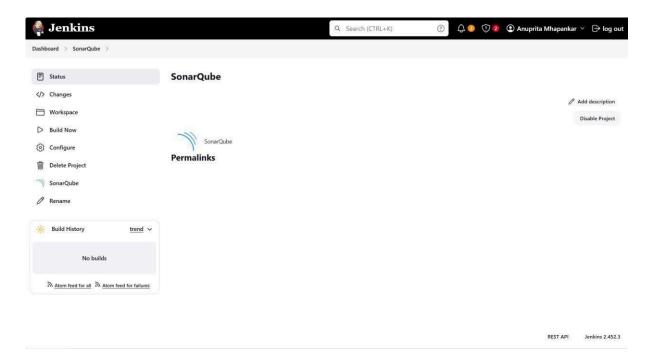
This is a simple Hello world project



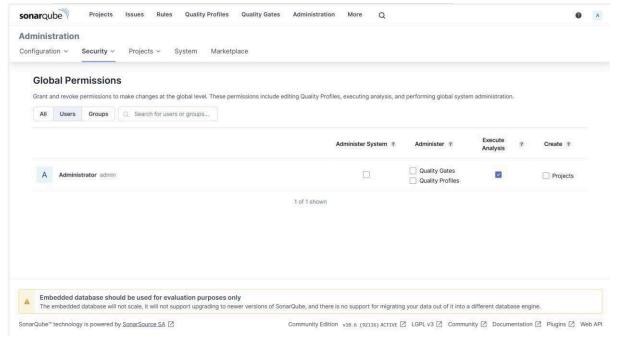
Step 9: Under the Build steps select "Execute SonarQube Scanner" option and under Analysis Properties write the following -

sonar.projectKey=sonarqube-test sonar.login=admin sonar.password=sonarqube sonar.hosturl=http://sonarqube:900

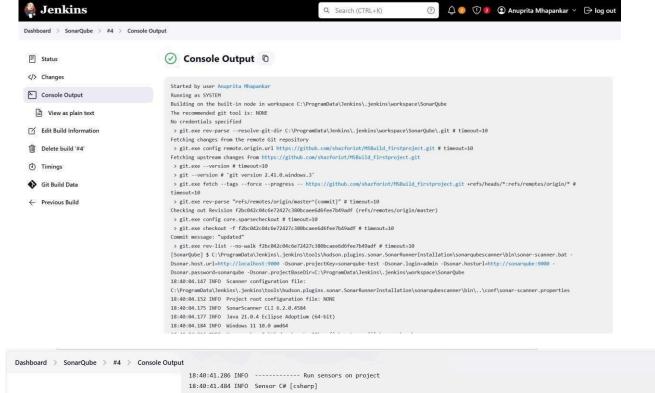




Step 10: Visit http://localhost:9000/admin/permissions and select the Users tab and for Administrator select the checkbox Execute Analysis.



Step 11: Now, come back to Jenkins and click on Build Now. The build is success.





REST API Jenkins 2.452.

 $Step \ 12: Visit \ the \ following \ URL \ to \ see \ the \ result - \underline{http://localhost:9000/dashboard?id=sonarqube-\underline{test\&codeScope=overal}|}$

