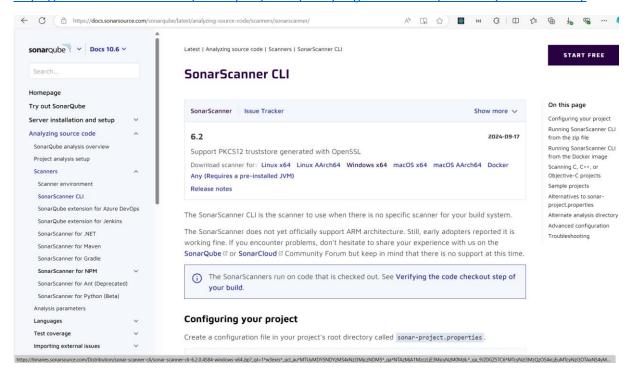
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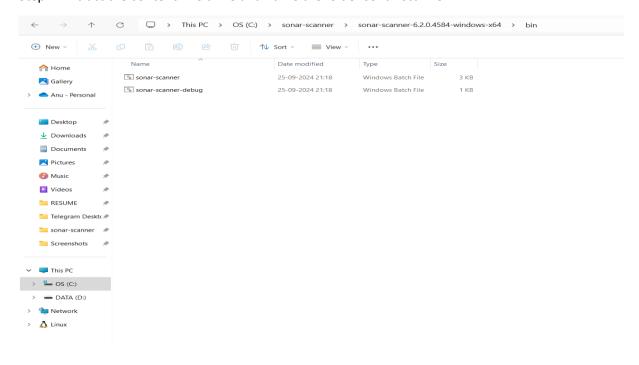
## **Experiment 8**

Aim: Create a Jenkins CICD Pipeline with SonarQube / GitLab Integration to perform a static analysis of the code to detect bugs, code smells, and security vulnerabilities on a sample Web /Java / Python application.

Step 1 : Visit the following link to download the SonarScanner CLI - <a href="https://docs.sonarsource.com/sonarqube/latest/analyzing-source-code/scanners/sonarscanner/">https://docs.sonarsource.com/sonarqube/latest/analyzing-source-code/scanners/sonarscanner/</a>

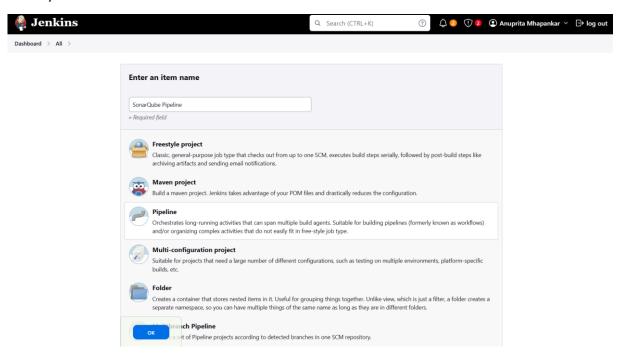


Step 2: Extract the content in C drive and name the folder sonar-scanner



Step 3: Open Command Prompt and run as administrator and run the following commands -

Step 4: Open Jenkins and create a pipeline and name the pipeline SonarQube Pipeline and then click on okay.

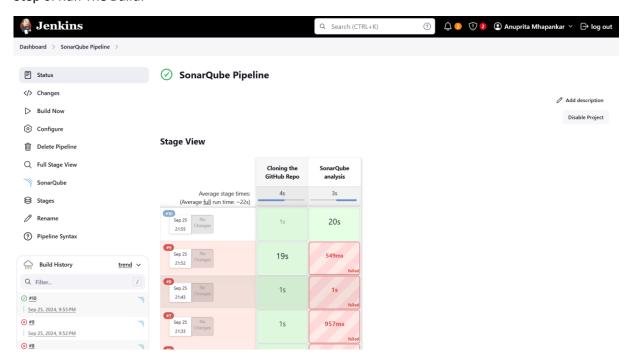


Step 5: Under Pipeline Script, enter the following -

```
node {
   stage('Cloning the GitHub Repo') {
      git 'https://github.com/shazforiot/MSBuild_firstproject.git'
   }
   stage('SonarQube analysis') {
      withSonarQubeEnv('sonarqube') {
      bat "C:/sonar-scanner/sonar-scanner-6.2.0.4584-windows-x64/bin/sonar-scanner.bat \
```

```
-D sonar.login=admin \
           -D sonar.password=sonarqube \
           -D sonar.projectKey=sonarqube-test \
           -D sonar.exclusions=vendor/**,resources/**,**/*.java \
           -D sonar.host.url=http://127.0.0.1:9000/"
     }
  }
}
 Dashboard > SonarQube Pipeline > Configuration
  Configure
                               Pipeline
  ( General
                               Definition
  Advanced Project Options
                               Pipeline script
  Pipeline
                                  Script ?
                                  Use Groovy Sandbox ?
```

Step 6: Run The Build.



REST API

Jenkins 2.452.3

Step 7: Check the console output once the build is complete, check the project in SonarQube.

