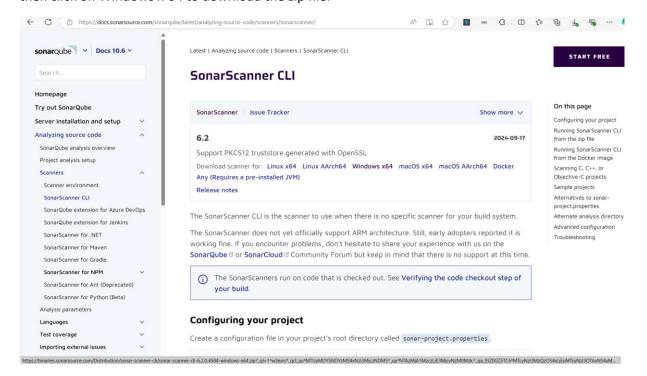
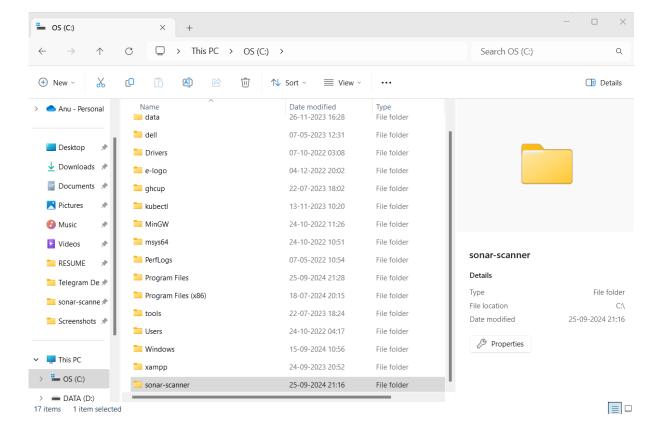
Experiment 8

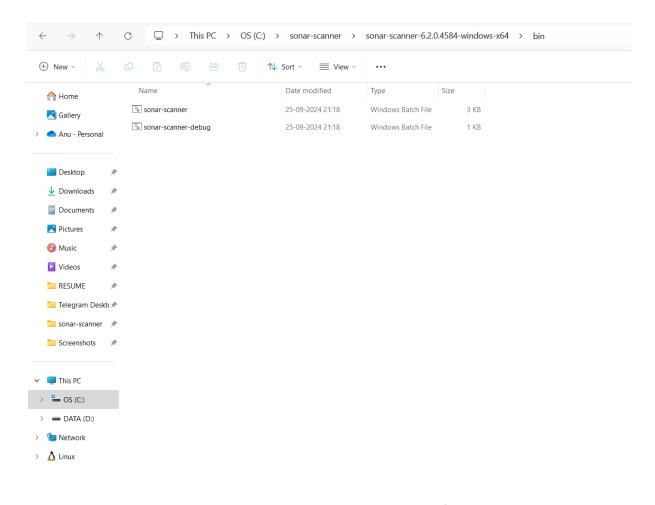
Aim: Create a Jenkins CICD Pipeline with SonarQube / GitLab Integration to perform a static analysis of the code to detect bugs, code smells, and security vulnerabilities on a sample Web /Java / Python application.

Step 1: Visit the following link to download the SonarScanner CLI - https://docs.sonarsource.com/sonarqube/latest/analyzing-source-code/scanners/sonarscanner/ and then click on Windows x-64 to download the zip file.



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 – cd C:\sonar-scanner\sonar-scanner-6.2.0.4584-windows-x64\bin dir

sonar-scanner.bat

```
C:\Sonar-scanner\Sonar-scanner-6.2.0.4584-windows-x64\bin>dir

Volume in frive C is OS

Volume Serial Number is E838-2288

Directory of C:\Sonar-scanner\Sonar-scanner-6.2.0.4584-windows-x64\bin

Directory of C:\Sonar-scanner\Sonar-scanner-debug.bat

Directory of C:\Sonar-scanner\Sonar-scanner-bat

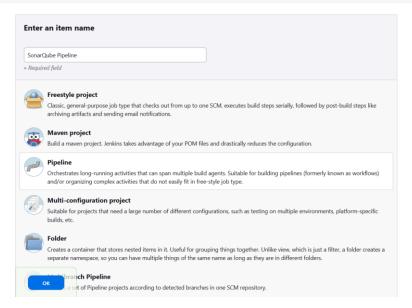
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```

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



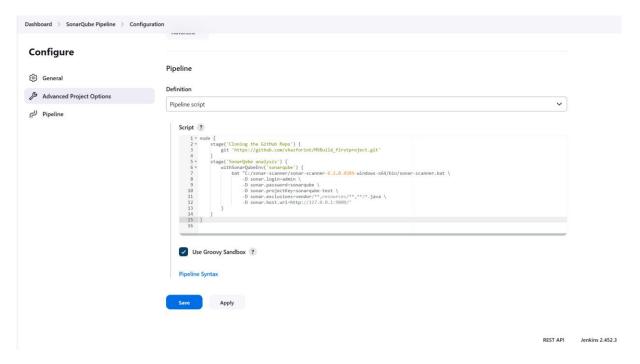


Step 5: In the configuration, under the Pipeline Section write the following Pipeline Script - node {

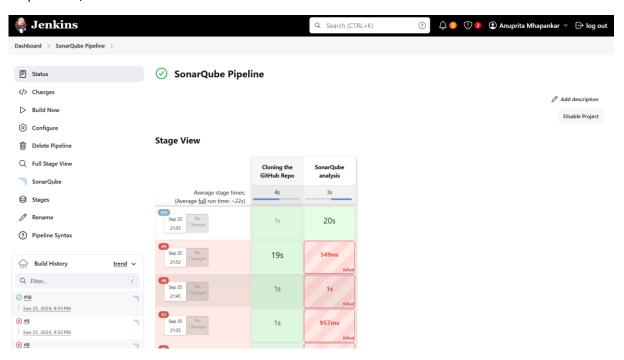
```
stage('Cloning the GitHub Repo') {
    git 'https://github.com/shazforiot/MSBuild_firstproject.git'
}
stage('SonarQube analysis') {
    withSonarQubeEnv('sonarqube') {
        bat "C:/sonar-scanner/sonar-scanner-6.2.0.4584-windows-x64/bin/sonar-scanner.bat \
            -D sonar.login=admin \
  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

Then click on the save button.

}



Step 6: Now, click on Build Now and the build is successful.



```
Dashboard >> SonarQube Pipeline >> #10

21:56:16.224 1NFO Sensor CE (coharp)
21:56:16.429 1NFO Sensor CE File Caching Sensor (coharp)
21:56:16.439 1NFO Sensor CE File Caching Sensor (coharp) | time-lass
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21:56:16.339 1NFO Sensor Zero Coverage Sensor (done) | time-lass
21:56:16.339 1NFO Sensor Zero Coverage Sensor (done) | time-lass
2
```

Step 7: Now, visit http://127.0.0.1:9000/dashboard?id=sonarqube-test to see the result.

