Advance DevOps

EXPERIMENT -8

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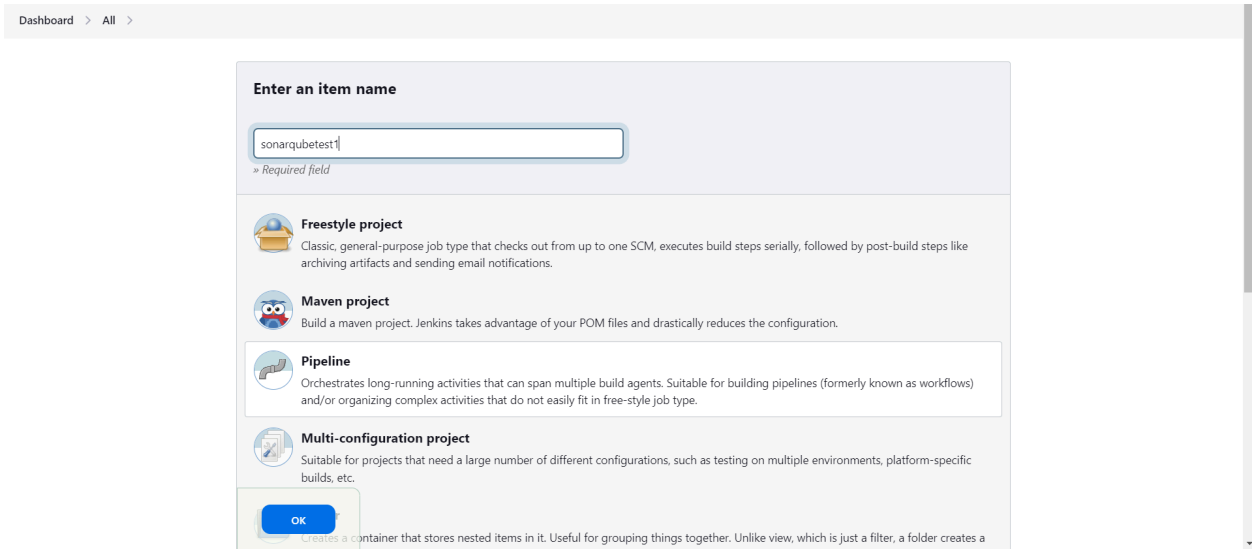
ROLL NO - 44

Step 1: Open Windows PowerShell and run the following command – docker run -d --name sonarqube-test1 -e SONAR_ES_BOOTSTRAP_CHECKS_DISABLE=true -p 9000:9000 sonarqube:latest

```
erShell does not load commands from the current location by default. If you trust this command, instead type: ".\sonar-s
canner.bat". See "get-help about_Command_Precedence" for more details.
PS C:\sonar-scanner\sonar-scanner-6.2.0.4584-windows-x64\bin> .\sonar-scanner.bat
11:02:02.120 INFO  Scanner configuration file: C:\sonar-scanner\sonar-scanner-6.2.0.4584-windows-x64\bin\..\conf\sonar-s
canner.properties
11:02:02.124 INFO  Project root configuration file: NONE
11:02:02.140 INFO  SonarScanner CLI 6.2.0.4584
11:02:02.142 INFO  Java 17.0.12 Eclipse Adoptium (64-bit)
11:02:02.142 INFO  Windows 11 10.0 amd64
11:02:02.160 INFO  User cache: C:\Users\navan\.sonar\cache
11:02:02.644 INFO  JRE provisioning: os[windows], arch[amd64]
11:02:06.241 INFO  EXECUTION FAILURE
11:02:06.243 INFO  Total time: 4.126s
11:02:06.244 ERROR Error during SonarScanner CLI execution
java.lang.IllegalStateException: Error status returned by url [https://api.sonarcloud.io/analysis/jres?os=windows&arch=a
md64]: 401
        at org.sonarsource.scanner.lib.internal.http.ServerConnection.callUrl(ServerConnection.java:182)
        at org.sonarsource.scanner.lib.internal.http.ServerConnection.callApi(ServerConnection.java:145)
        at org.sonarsource.scanner.lib.internal.http.ServerConnection.callRestApi(ServerConnection.java:123)
        at org.sonarsource.scanner.lib.internal.JavaRunnerFactory.getJreMetadata(JavaRunnerFactory.java:159)
        at org.sonarsource.scanner.lib.internal.JavaRunnerFactory.getJreFromServer(JavaRunnerFactory.java:138)
        at org.sonarsource.scanner.lib.internal.JavaRunnerFactory.createRunner(JavaRunnerFactory.java:85)
        at org.sonarsource.scanner.lib.internal.ScannerEngineLauncherFactory.createLauncher(ScannerEngineLauncherFactory
.java:53)
        at org.sonarsource.scanner.lib.ScannerEngineBootstrapper.bootstrap(ScannerEngineBootstrapper.java:118)
        at org.sonarsource.scanner.cli.Main.analyze(Main.java:75)
        at org.sonarsource.scanner.cli.Main.main(Main.java:63)
11:02:06.246 ERROR
11:02:06.246 ERROR Re-run SonarScanner CLI using the -X switch to enable full debug logging.
PS C:\sonar-scanner\sonar-scanner-6.2.0.4584-windows-x64\bin>
```

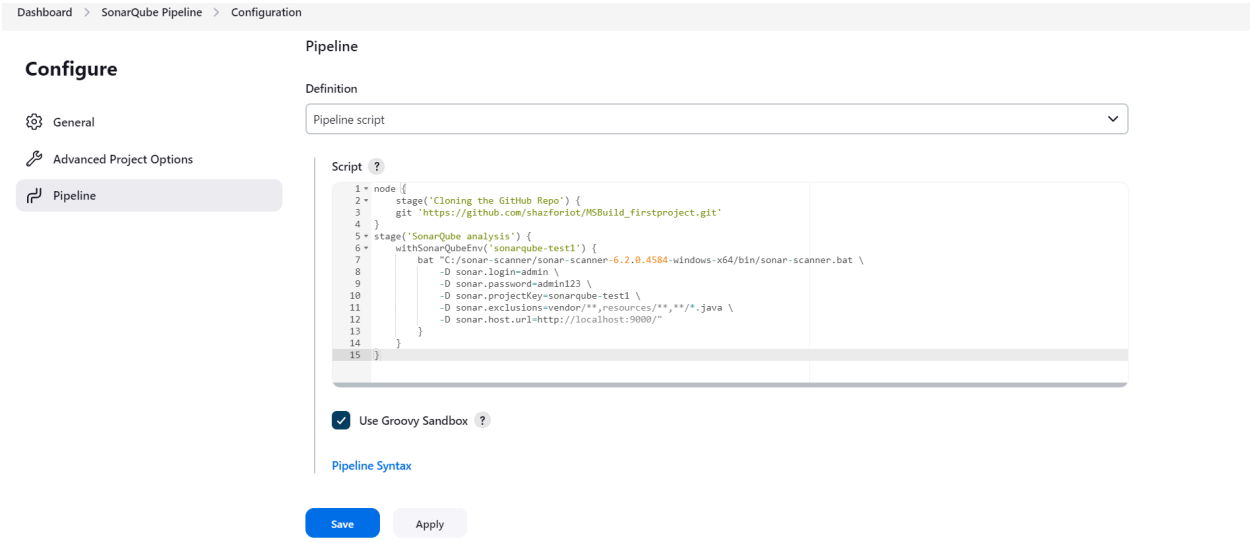
- Login to SonarQube using username admin and password admin.
- Create a manual project in SonarQube with the name sonarqube-test1

Step2: go to the jenkins and create new item select pipeline:



Under Pipeline Script, enter the following -

```
node {
        stage('Cloning the GitHub Repo') {
                git 'https://github.com/shazforiot/GOL.git'
        }
stage('SonarQube analysis') {
        withSonarQubeEnv('sonarqube') {
        sh "<PATH_TO_SONARQUBE_FOLDER>//bin//sonar-scanner \
                -D sonar.login=<SonarQube_USERNAME> \
                -D sonar.password=<SonarQube_PASSWORD> \
                -D sonar.projectKey=<Project_KEY> \
                -D sonar.exclusions=vendor/**,resources/**,**/*.java \
                -D sonar.host.url=http://127.0.0.1:9000/"
                }
        }
}
```

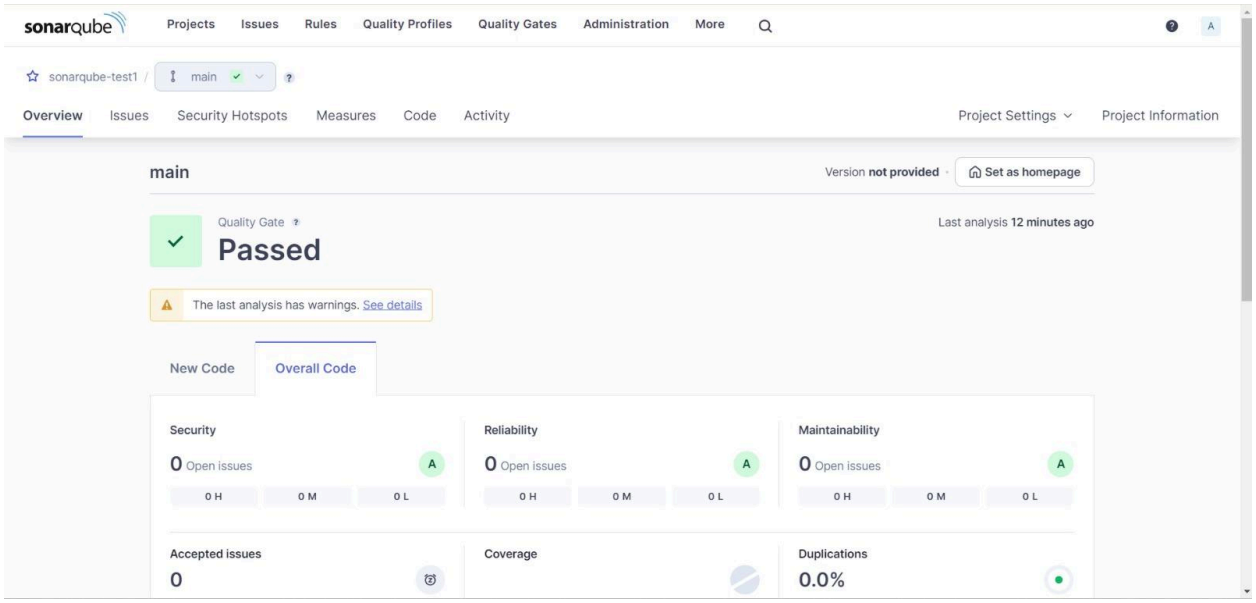


Save the changes and go to build now:

Console output:

Console Output

```
Started by user jai navani
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\ProgramData\Jenkins\.jenkins\workspace\SonarQube Pipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Cloning the GitHub Repo)
[Pipeline] git
The recommended git tool is: NONE
No credentials specified
 > git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\.jenkins\workspace\SonarQube Pipeline\.git # timeout=10
Fetching changes from the remote Git repository
 > git.exe config remote.origin.url https://github.com/shazforiot/MSBuild_firstproject.git # timeout=10
Fetching upstream changes from https://github.com/shazforiot/MSBuild_firstproject.git
 > git.exe --version # timeout=10
 > git --version # 'git version 2.45.2.windows.1'
 > git.exe fetch --tags --force --progress -- https://github.com/shazforiot/MSBuild_firstproject.git +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
Checking out Revision f2bc042c04c6e72427c380bcaee6d6fee7b49adf (refs/remotes/origin/master)
 > git.exe config core.sparsecheckout # timeout=10
 > git.exe checkout -f f2bc042c04c6e72427c380bcaee6d6fee7b49adf # timeout=10
 > git.exe branch -a -v --no-abbrev # timeout=10
 > git.exe branch -D master # timeout=10
```

```
11:22:18.236 INFO  Sensor C# File Caching Sensor [csharp]
11:22:18.237 WARN  Incremental PR analysis: Could not determine common base path, cache will not be computed. Consider setting 'sonar.projectBaseDir'
property.
11:22:18.237 INFO  Sensor C# File Caching Sensor [csharp] (done) | time=1ms
11:22:18.237 INFO  Sensor Zero Coverage Sensor
11:22:18.251 INFO  Sensor Zero Coverage Sensor (done) | time=14ms
11:22:18.256 INFO  SCM Publisher SCM provider for this project is: git
11:22:18.257 INFO  SCM Publisher 4 source files to be analyzed
11:22:18.789 INFO  SCM Publisher 4/4 source files have been analyzed (done) | time=531ms
11:22:18.793 INFO  CPD Executor Calculating CPD for 0 files
11:22:18.795 INFO  CPD Executor CPD calculation finished (done) | time=0ms
11:22:18.810 INFO  SCM revision ID 'f2bc042c04c6e72427c380bcaee6d6fee7b49adf'
11:22:19.074 INFO  Analysis report generated in 134ms, dir size=201.0 kB
11:22:19.137 INFO  Analysis report compressed in 45ms, zip size=22.5 kB
11:22:19.351 INFO  Analysis report uploaded in 212ms
11:22:19.353 INFO  ANALYSIS SUCCESSFUL, you can find the results at: http://localhost:9000/dashboard?id=sonarqube-test1
11:22:19.354 INFO  Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
11:22:19.354 INFO  More about the report processing at http://localhost:9000/api/ce/task?id=971ae2f2-4e0f-49a7-88c4-ad4a6cceddf8
11:22:19.366 INFO  Analysis total time: 24.819 s
11:22:19.368 INFO  SonarScanner Engine completed successfully
11:22:19.454 INFO  EXECUTION SUCCESS
11:22:19.455 INFO  Total time: 29.696s
[Pipeline] }
[Pipeline] // withSonarQubeEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Output: