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Roll No:60

# **Experiment No 8**

AIM: Integrating Jenkins with SonarQube.

Open up Jenkins Dashboard on localhost, port 8080

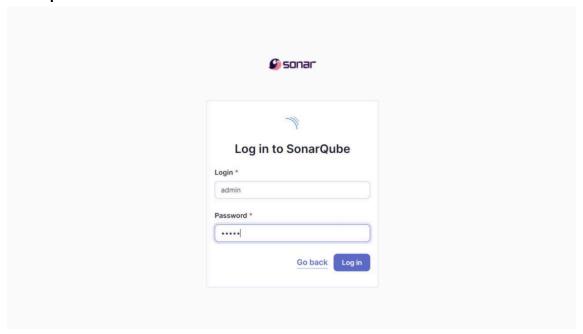
Run SonarQube in a Docker container using this command -

\$ docker run -d --name sonarqube -e SONAR\_ES\_BOOTSTRAP\_CHECKS\_DISABLE=true -p 9000:9000

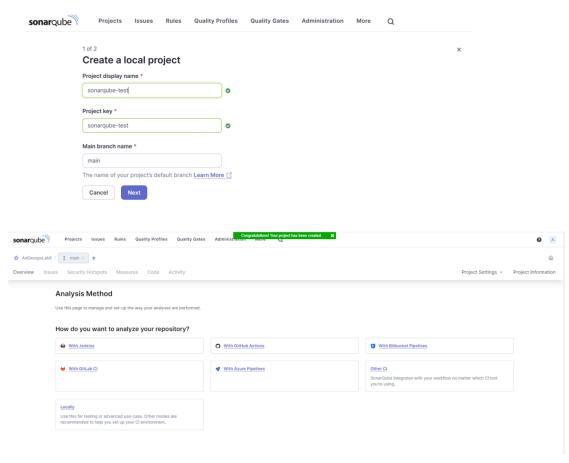
sonarqube:latest

```
Administrator: Windows PowerShell
Vindows PowerShell
opyright (C) Microsoft Corporation. All rights reserved.
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\WINDOWS\system32> docker run -d --name sonarqube -e SONAR_ES_BOOTSTRAP_CHECKS_DISABLE=true -p 9000:9000 sonarqube:
latest
Jnable to find image 'sonarqube:latest' locally latest: Pulling from library/sonarqube
7478e0ac0f23: Download complete
od819c9b5ead: Download complete
0a925ab929a: Download complete
La5fd5c7e184: Download complete
30338217a4ab: Download complete
7b87d6fa783d: Download complete
7d9a34308537: Download complete
1f4fb700ef54: Download complete
digest: sha256:72e9feec71242af83faf65f95a40d5e3bb2822a6c3b2cda8568790f3d31aecde
tatus: Downloaded newer image for sonarqube:latest
719be107f137ccba049f378ec4ce7aadde8e21e278026f7aab76b98c28dd989
 C:\WINDOWS\system32>
```

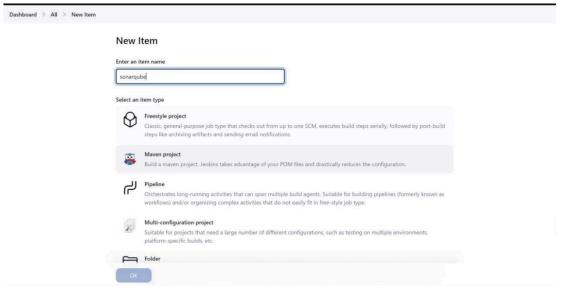
#### sonarqube



Create project manually



## In Jenkins create a pipeline here named "SonarQube"



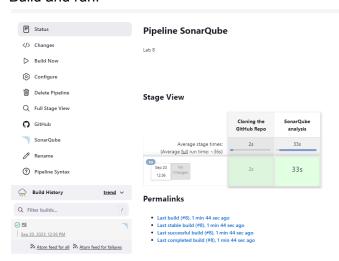
```
Enter the following in pipeline script:
node {
   stage('Cloning the GitHub Repo') {
      git 'https://github.com/PrajaktaUpadhye6/MSBuild_firstproject.git'
   }
```

```
stage('SonarQube analysis') {
        withSonarQubeEnv('sonarqube') {
            bat
"D:/sonar-scanner-cli-5.0.1.3006-windows/sonar-scanner-5.0.1.3006-windows/bin/sonar-scanne
r.bat \
                -D sonar.login=admin \
                -D sonar.password=abc \
                -D sonar.projectKey=AdDevops \
                -D sonar.exclusions=vendor/**,resources/**,**/*.java \
                -D sonar.host.url=http://127.0.0.1:9000/"
        }
}
 Definition
  Pipeline script
                                                                                                                                   ~
     Script ?
                    stage('SonarQube analysis') {
                       steps {
    withSonarQubeEnv('SonarQube') {
                             bat '''
D:\\sonar-scanner-6.1.0.4477-windows-x64\\bin\\sonar-scanner.bat
                              D:\\Sonar-scanner-0.1.0.44/7-windows-x04\\Din\\Sonar-
-Dsonar.login=admin ^
-Dsonar.password=9136591220 ^
-Dsonar.projectKey+sonarqube ^
-Dsonar.exclusions-vendrof**,resources/**,**/*.java ^
-Dsonar.bost.url=http://127.0.0.1:9000/
        16
17
18
19
```

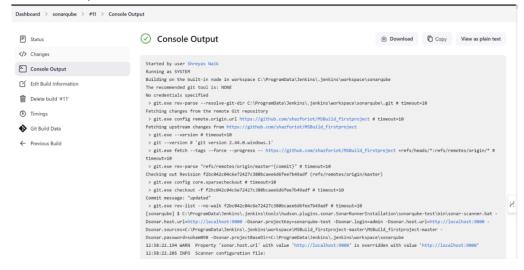
It is a java sample project which has a lot of repetitions and issues that will be detected by SonarQube.

#### Build and run:

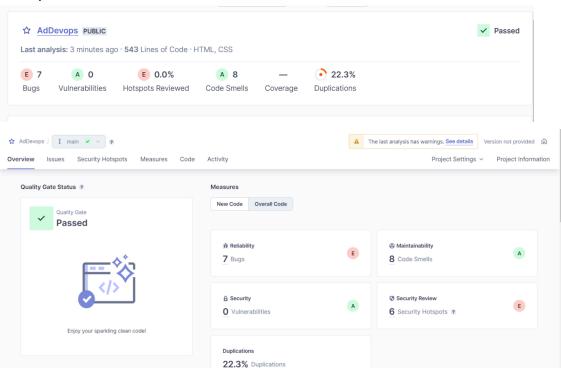
✓ Use Groovy Sandbox ?



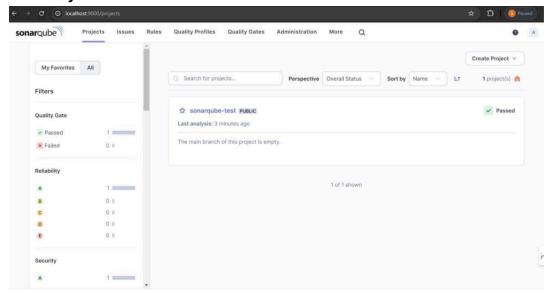
#### Console output:



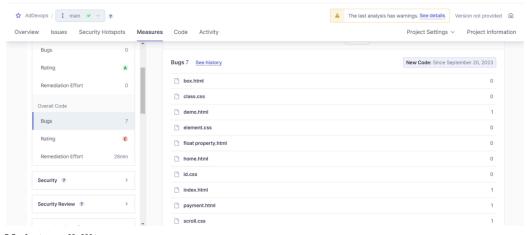
#### sonarqube:



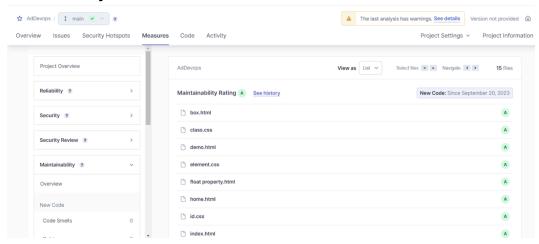
## Reliability:



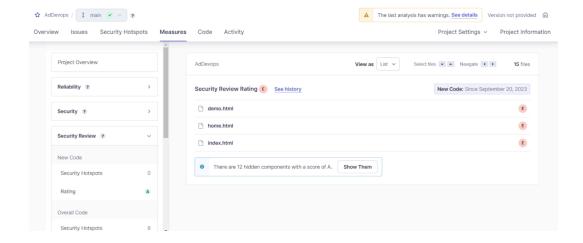
### Bugs:



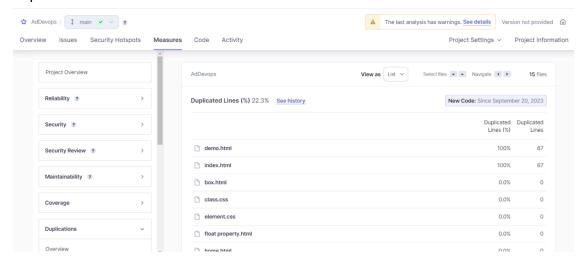
## Maintanaibility:



Security:



#### **Duplications:**



Conclusion: Thus, we have successfully integrated Jenkins with SonarQube.