Experiment No 8

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AIM: Integrating Jenkins with SonarQube.

Open up Jenkins Dashboard on localhost, port 8080

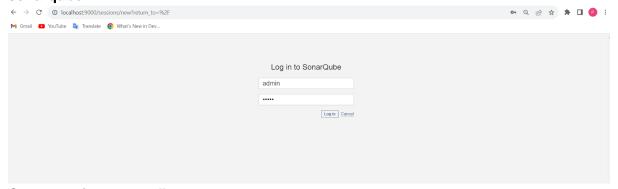
Run SonarQube in a Docker container using this command -

\$ docker run -d --name sonarqube -e SONAR_ES_BOOTSTRAP_CHECKS_DISABLE=true -p 9000:9000

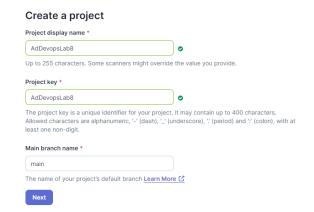
sonarqube:latest

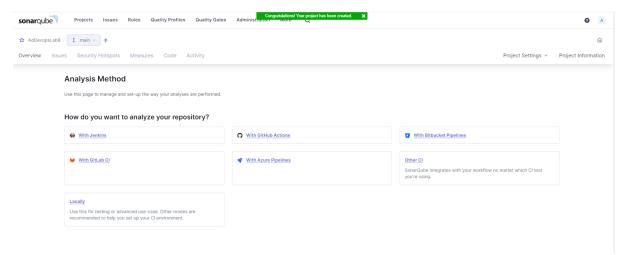
```
PS D:\Desktop\DockerFile> docker run -d --name sonarqube -e SONAR_ES_BOOTSTRAP_CHECKS_DISABLE=true -p 9000:9000 sonarqub e:latest
Unable to find image 'sonarqube:latest' locally
latest: Pulling from library/sonarqube
44ba2882f8eb: Pull complete
2cabec57fa36: Pull complete
c20481384b6a: Pull complete
bf7b17ee74f8: Pull complete
38617faac714: Pull complete
b795b715553d: Pull complete
b795b715553d: Pull complete
b795b715553d: Pull complete
Digest: sha256:1ffd122cfb37ce982289dc7f5d38bb702ba05af7b5a50f7cb077ae25e60b5b9a
Status: Downloaded newer image for sonarqube:latest
1442c4e613b25aaedec05c060f020a00802b1c6dbaa27e8c5c0dad4ed8fc1f76
```

sonarqube

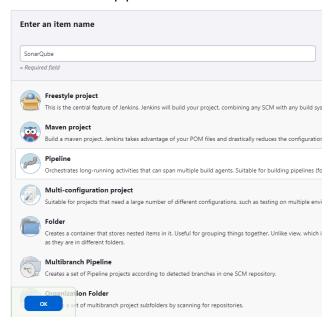


Create project manually





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-scanner.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/"
}
```

```
Pipeline

Definition

Pipeline script

Script ?

1 - node {
2 - stage('cloning the 6ithub Repo') {
3 - stage('sonarQue for stage) {
4 - stage('sonarQue for stage) {
5 - stage('sonarQue for stage) {
6 - withSonarQuefer('sonarQue') {
7 - bonar.login-addin \
9 - 0 sonar.login-addin \
9 - 0 sonar.login-addin \
10 - 0 sonar.login-addin \
11 - 0 sonar.login-addin \
12 - 0 sonar.login-addin \
13 - 0 sonar.host.url=http://127.8.8.1:9808/"

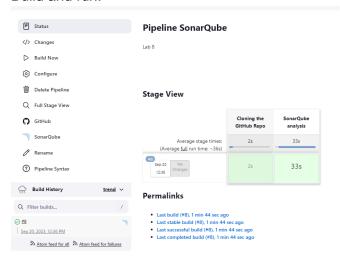
V Use Groovy Sandbox ?

Pipeline Syntax

Apply
```

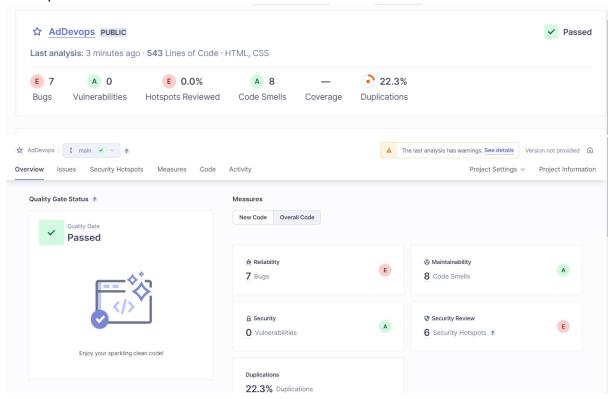
It is a java sample project which has a lot of repetitions and issues that will be detected by SonarQube.

Build and run:

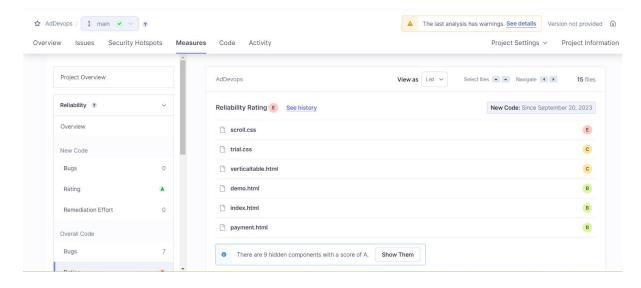




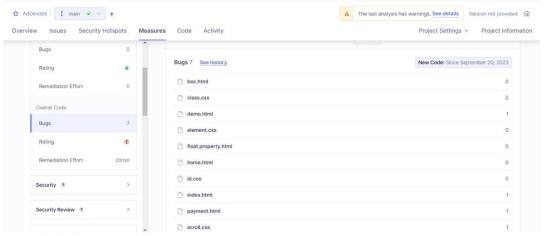
sonarqube:



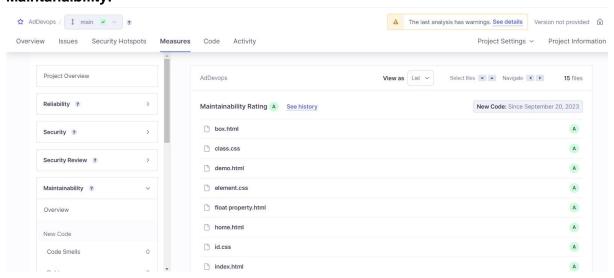
Reliability:



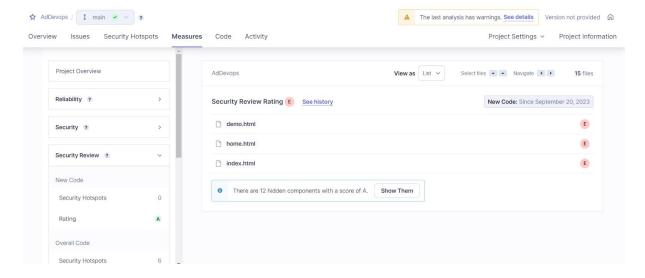
Bugs:



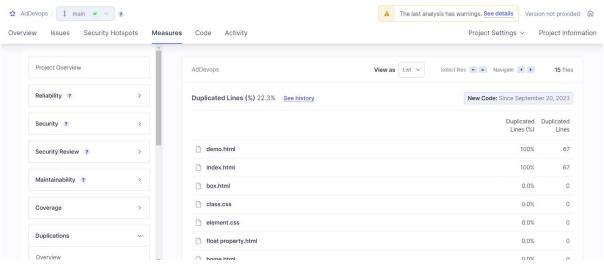
Maintanaibility:



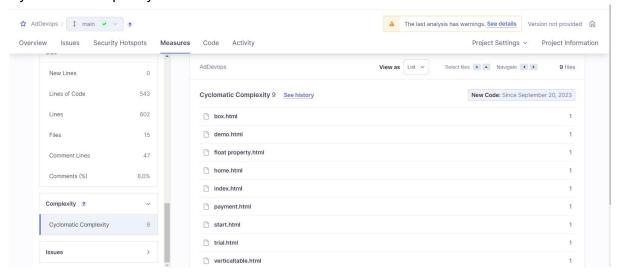
Security:



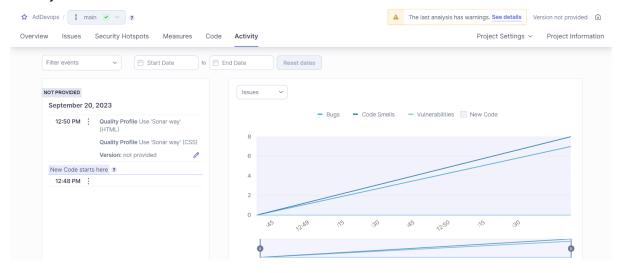
Duplications:



Cyclomatic complexity:



Activity:



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