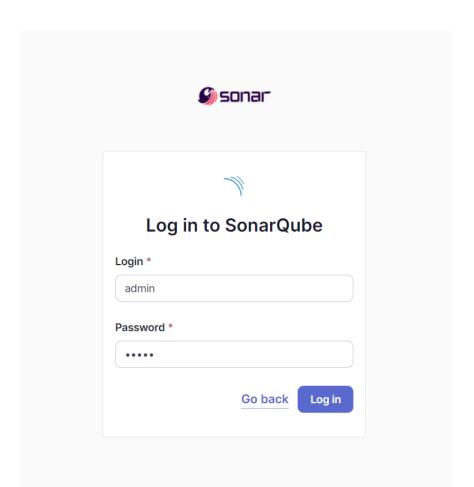
Experiment 8

- 1. Open up Jenkins Dashboard on localhost, port 8080 or whichever port it is at for you.
- 2. Run SonarQube in a Docker container using this command -

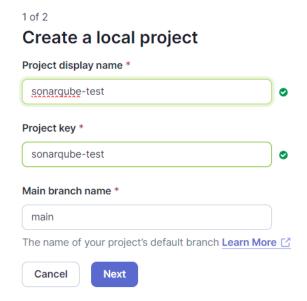
```
C:\Windows\system32>docker run -d --name sonarqube -e SONAR_ES_BOOTSTRAP_CHECKS_DISABLE=true -p 9000:9000 sonarqube:late st
Unable to find image 'sonarqube:latest' locally
latest: Pulling from library/sonarqube
7478e0ac0f23: Pull complete
90a925ab929a: Pull complete
749a34308537: Pull complete
80338217a4ab: Pull complete
80338217a4ab: Pull complete
1a5fd5c7e184: Pull complete
7b87d6fa783d: Pull complete
bd819c9b5ead: Pull complete
bd819c9b5ead: Pull complete
90igest: sha256:72e9feec71242af83faf65f95a40d5e3bb2822a6c3b2cda8568790f3d31aecde
Status: Downloaded newer image for sonarqube:latest
b6dd73afc810a20ec3d643e9a148ab9643a3b5beff2766406df21f5f54a090c1
```

3. Once the container is up and running, you can check the status of SonarQube at localhost port 9000.

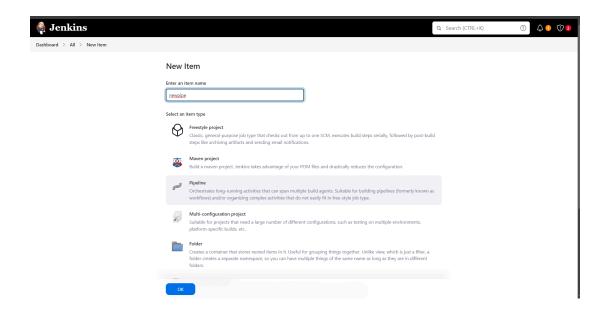


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4. Create a new project



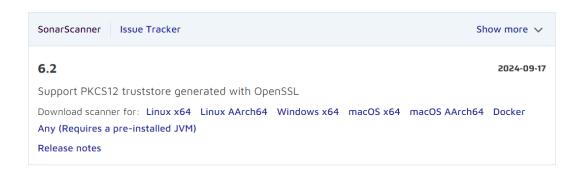
- 5. Click on Security and create a new name and token, select type as user token
- 6. Create a new pipeline



7. Go to sonarqube website and download the SonarScanner CLI

SonarScanner CLI

✓ Use Groovy Sandbox ?



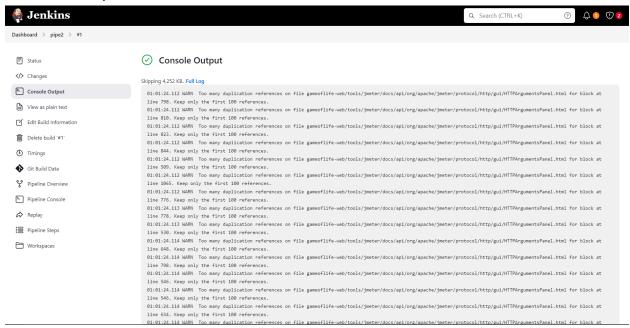
Once it is downloaded, copy its path and add to the script

8. Inside the pipeline section add the following script

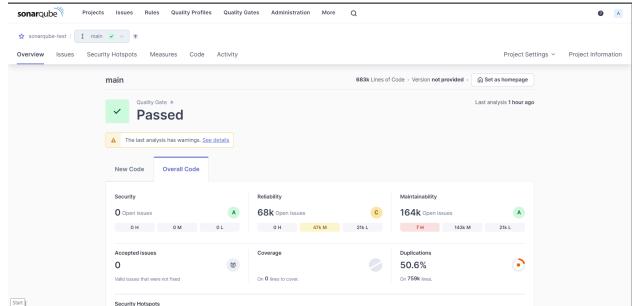
```
node {
stage('Cloning the GitHub Repo') {
git 'https://github.com/shazforiot/GOL.git'
}
stage('SonarQube analysis') {
withSonarQubeEnv('sonarqube') {
sh "<PATH_TO_SONARQUBE_FOLDER>//bin//sonar-scanner \
-D sonar.login=<SonarQube USERNAME> \
-D sonar.password=<SonarQube_PASSWORD> \
-D sonar.projectKey=<Project KEY> \
-D sonar.exclusions=vendor/**,resources/**,**/*.java \
-D sonar.host.url=http://127.0.0.1:9000/"
}
}
}
  Pipeline
  Definition
      Pipeline script
                                                                                                                                                                                                                                                                                                                                                                                            ~
              Script ?
                                           stage('Cloning the GitHub Repo') {
    git 'https://github.com/shazforiot/GOL.git'
                                          }
stage('SonarQube analysis') {
withSonarQubeEnv('sonarqube-test') { // Use the correct name here
bath:
C:\Users\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\bestrop\ueyda\\ueyda\\bestrop\ueyda\\bestrop\ueyda\\ueyda\\\bestrop\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\ueyda\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\\ueyda\ueyda\ueyda\ueyda\ueyda\ueyda\\ueyda\\ueyda\ueyda\ueyda\\u
```

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9. Save and build the pipeline, this step may take a while. After the build is successful, check the console output



10. Check the sonarqube project, whether it has passed or not.



Conclusion:

- We created a sonarqube project locally
- We created a jenkins pipeline and added a script with github link
- We also added sonarqube project details like key, token etc.
- Many issues were faced with the script as the build was initially failing, later succeeded with some changes.
- The build was successful on jenkins and passed on sonarqube