

Lab 8

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Class: D15B

Roll: 55

New Item

Enter an item name

Adv DevOps 8

Select an item type



Freestyle project

Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.



Maven project

Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.



Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.



Multi-configuration project

Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Definition

Pipeline script

Script ?

```
1 = node {
2 =   stage('Cloning the Github Repo') {
3 =     git 'https://github.com/sharforlat/GOL.git'
4 =   }
5 =
6 =   stage('SonarQube analysis') {
7 =     withSonarQubeEnv('sonarqube') { // 'sonarqube' is the name of the SonarQube server configured in Jenkins
8 =       sh "sonar-scanner \
9 =         -D sonar.projectKey=sonarqube \
10 =        -D sonar.sources=. \
11 =        -D sonar.exclusions=vendor/**,resources/**,**/*.java \
12 =        -D sonar.host.url=http://localhost:9000/ \
13 =        -D sonar.login=admin \
14 =        -D sonar.password=9156591328"
15 =     }
16 =   }
17 }
```

☒ Use Groovy Sandbox ?

```
17:52:44.416 INFO  EXECUTION SUCCESS
17:52:44.419 INFO  Total time: 17:04.839s
[Pipeline] }
[Pipeline] // withSonarQubeEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Pipeline completed successfully!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Definition

Pipeline script

Script ?

```

18
19 *   stage('SonarQube analysis') {
20 *       steps {
21 *           withSonarQubeEnv('SonarQube') {
22 *               bat ...
23 *               D:\\sonar-scanner-6.1.0.4477-windows-x64\\bin\\sonar-scanner.bat ^
24 *               -Dsonar.login=adeln ^
25 *               -Dsonar.password=9136591220 ^
26 *               -Dsonar.projectKey=sonarqube ^
27 *               -Dsonar.exclusions=vendor/**,resources/**,/**/*.java ^
28 *               -Dsonar.host.url=http://127.0.0.1:9000/
29 *               ...
30 *           }
31 *       }
32 *   }
33
34 }
35
36

```

☒ Use Groovy Sandbox ?

```

17:49:39.413 INFO   CPD Executor CPD calculation finished (done) | time=159837ms
17:49:39.428 INFO   SCM revision ID 'ba799ba7e1b576f0da4612322b0412c5e6e1e5e4'
17:52:16.075 INFO   Analysis report generated in 4781ms, dir size=127.2 MB
17:52:33.606 INFO   Analysis report compressed in 17599ms, zip size=29.6 MB
17:52:34.987 INFO   Analysis report uploaded in 1290ms
17:52:34.989 INFO   ANALYSIS SUCCESSFUL, you can find the results at: http://127.0.0.1:9000/dashboard?id=sonarqube
17:52:34.989 INFO   Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
17:52:34.989 INFO   More about the report processing at http://127.0.0.1:9000/api/cx/task?id=8c0d59e-050f-41e5-b320-ea3244444259
17:52:43.609 INFO   Analysis total time: 16:49.875 s
17:52:43.612 INFO   SonarScanner Engine completed successfully
17:52:44.416 INFO   EXECUTION SUCCESS
17:52:44.419 INFO   Total time: 17:06.839s
[Pipeline] }
[Pipeline] // withSonarQubeEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Declarative: Post Actions)
[Pipeline] echo
Pipeline completed successfully!
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS

```

☆ sonarqube PUBLIC

✓ Passed

Last analysis: 48 minutes ago · 683k Lines of Code · HTML, XML, ...

A 0 C 68k A 164k E 0.0% — 50.6%

Security Reliability Maintainability Hotspots Reviewed Coverage Duplications

sonarqube / main Quality Gate: Passed Last analysis 48 minutes ago

Overview Issues Security Hotspots Measures Code Activity Project Settings Project Information

main 663k Lines of Code - Version not provided - [Set as homepage](#) [Take the Tour](#)

Quality Gate: Passed

The last analysis has warnings. [See details](#)

New Code Overall Code

New Code: Since September 10, 2024 Started 4 hours ago

New Issues 0 Accepted Issues 0

Required = 0 1000 Issues that were not fixed

sonarqube / main Quality Gate: Passed Last analysis 48 minutes ago

Overview Issues Security Hotspots Measures Code Activity Project Settings Project Information

Project Overview

Security Reliability

Overview New Code Issues Rating Remediation Effort Overall Code

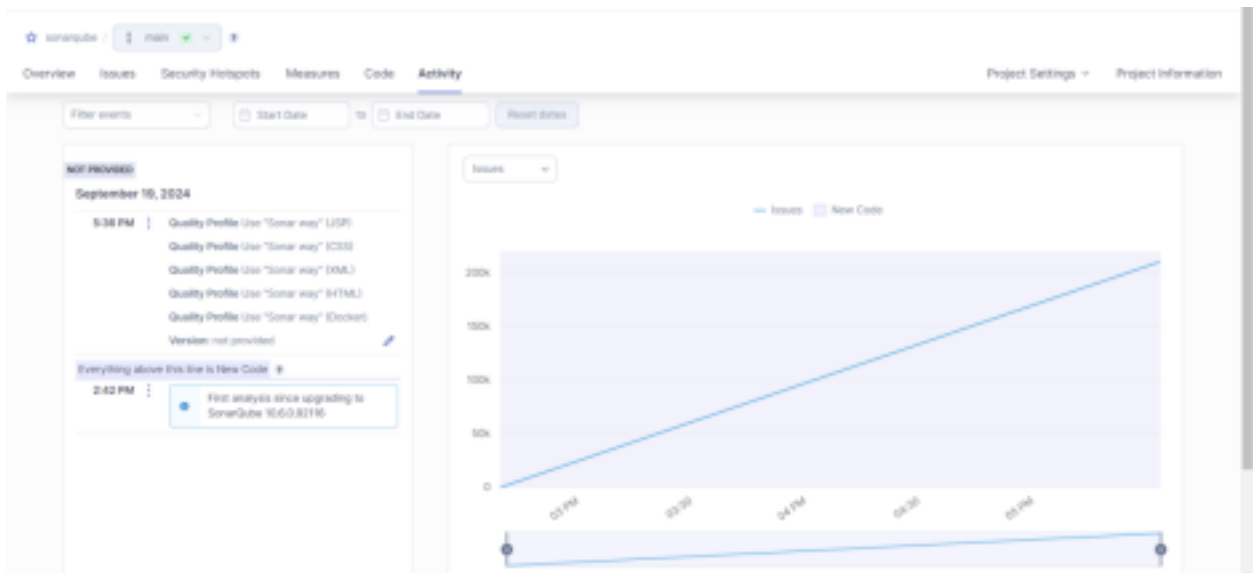
Issues 0 Rating A Remediation Effort 0 Overall Code Issues 6753k Rating C Remediation Effort 1426d

sonarqube View as Tree Select Files Navigate 8 Files

Reliability Rating on New Code A New Code: Since September 10, 2024

- gameoflife-acceptance-tests A
- gameoflife-build A
- gameoflife-core A
- gameoflife-deploy A
- gameoflife-web A
- gameoflife A

8 of 8 shown



Duplicated Lines 384,007 [See history](#)

New Code: Since September 19, 2024

	Duplicated Lines	Duplicated Lines (%)
 gameoflife-acceptance-tests	0	0.0%
 gameoflife-build	0	0.0%
 gameoflife-core	374	9.8%
 gameoflife-deploy	0	0.0%
 gameoflife-web	383,633	50.9%
 pom.xml	0	0.0%