

## Adv devopsLab 8

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Class: D15B

Roll: 54

### 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/shazforiot/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=9136591220"
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 ?

```
10
11 stage('SonarQube analysis') {
12     steps {
13         withSonarQubeEnv('SonarQube') {
14             bat '''
15                 D:\\sonar-scanner-6.1.0.4477-windows-x64\\bin\\sonar-scanner.bat ^
16                 -Dsonar.login=admin ^
17                 -Dsonar.password=9136591220 ^
18                 -Dsonar.projectKey=sonarqube ^
19                 -Dsonar.exclusions=vendor/**,resources/**,*/*.java ^
20                 -Dsonar.host.url=http://127.0.0.1:9000/
21                 ...
22             '''
23         }
24     }
25 }
26
```

☒ Use Groovy Sandbox ?

```
17:49:39.413 INFO CPD Executor CPD calculation finished (done) | time=159837ms
17:49:39.428 INFO SCM revision ID 'ba799ba7e1b576f04a4612322b0412c5e6e1e5e4'
17:52:16.075 INFO Analysis report generated in 4781ms, dir size=127.2 MB
17:52:33.696 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/ce/task?id=8c04859e-050f-41e5-b320-ee32d44d4259
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: 17:04.839s

[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
```

☆ sonarqube PUBLIC

✓ Passed

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

A 0  
Security

C 68k  
Reliability

A 164k  
Maintainability

E 0.0%  
Hotspots Reviewed

—  
Coverage

50.6%  
Duplications

☆ sonarqube / ⓘ main ✓ ▾ ?

Overview Issues Security Hotspots Measures Code Activity

Project Settings ▾ Project Information

main

683k Lines of Code • Version not provided •

🏠 Set as homepage

📖 Take the Tour



Quality Gate ⓘ

Passed

Last analysis 48 minutes ago



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

New Code

Overall Code

New Code: Since September 19, 2024 Started 4 hours ago

New issues

0

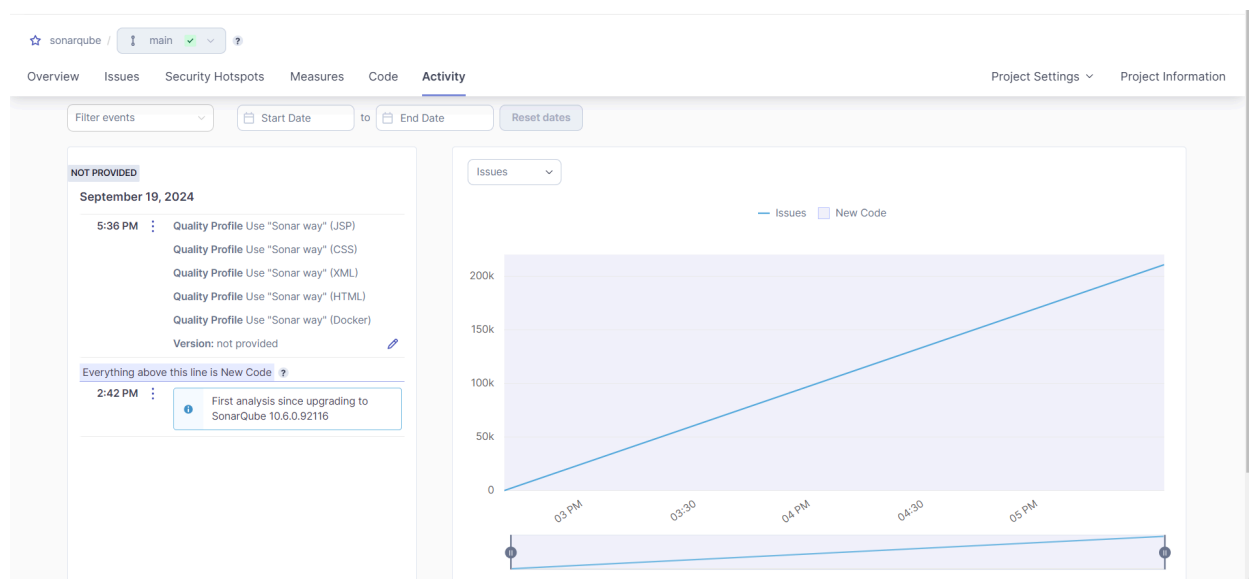
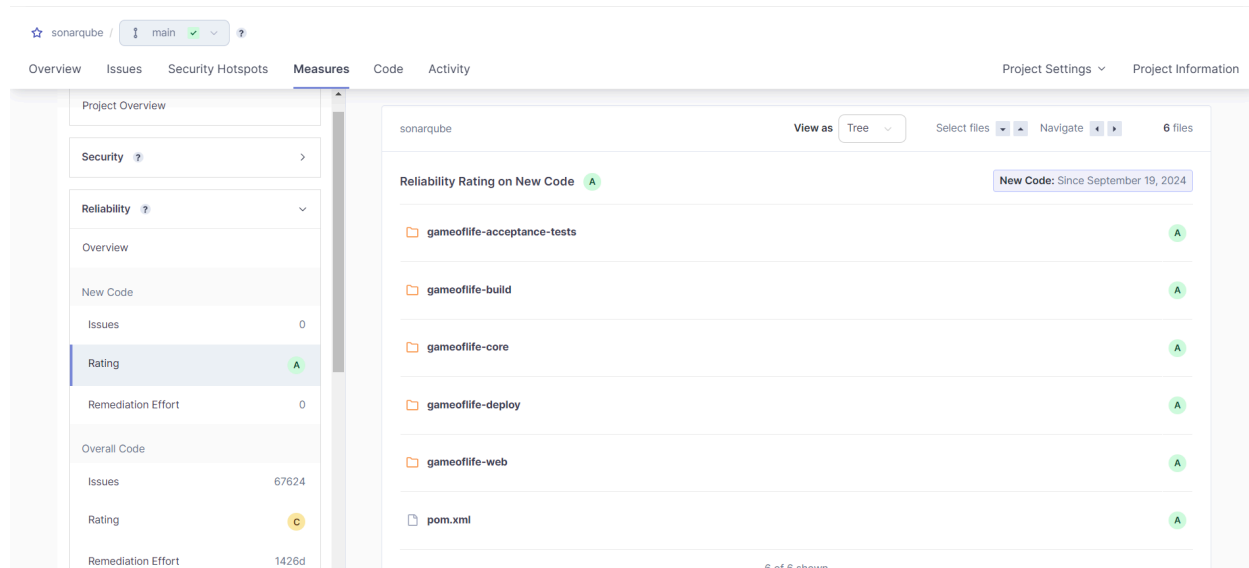
Required = 0

Accepted issues

0

Valid issues that were not fixed





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	9.6%
 gameoflife-deploy	0	0.0%
 gameoflife-web	383,633	50.9%
 pom.xml	0	0.0%