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Sub:Adv Devops

# Experiment 8

**Jenkins** Search (CTRL+K) HITESH TANWANI log out

Dashboard > All > New Item

### 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.

OK

### 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

C 68k

A 164k

E 0.0%

—

50.6%

SecurityReliabilityMaintainabilityHotspots ReviewedCoverageDuplications

☆ sonarqube / main ✓ ?

OverviewIssuesSecurity HotspotsMeasuresCodeActivity

Project Settings ▾Project Information

main683k Lines of Code · Version not provided · Set as homepageTake the Tour

✓

Quality Gate ▾

Passed

Last analysis 48 minutes ago

⚠ The last analysis has warnings. See details

New CodeOverall Code

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

New issues0

Accepted issues0

Required = 0

Valid issues that were not fixed

☆ sonarqube / main ✓ ?

OverviewIssuesSecurity HotspotsMeasuresCodeActivity

Project Settings ▾Project Information

Project Overview

Security ▾

Reliability ▾

Overview

New Code

Issues0

RatingA

Remediation Effort0

Overall Code

Issues67624

RatingC

Remediation Effort1426d

sonarqubeView asTreeSelect files ▾Navigate ▾6 files

Reliability Rating on New Code ANew Code: Since September 19, 2024

gameoflife-acceptance-testsA

gameoflife-buildA

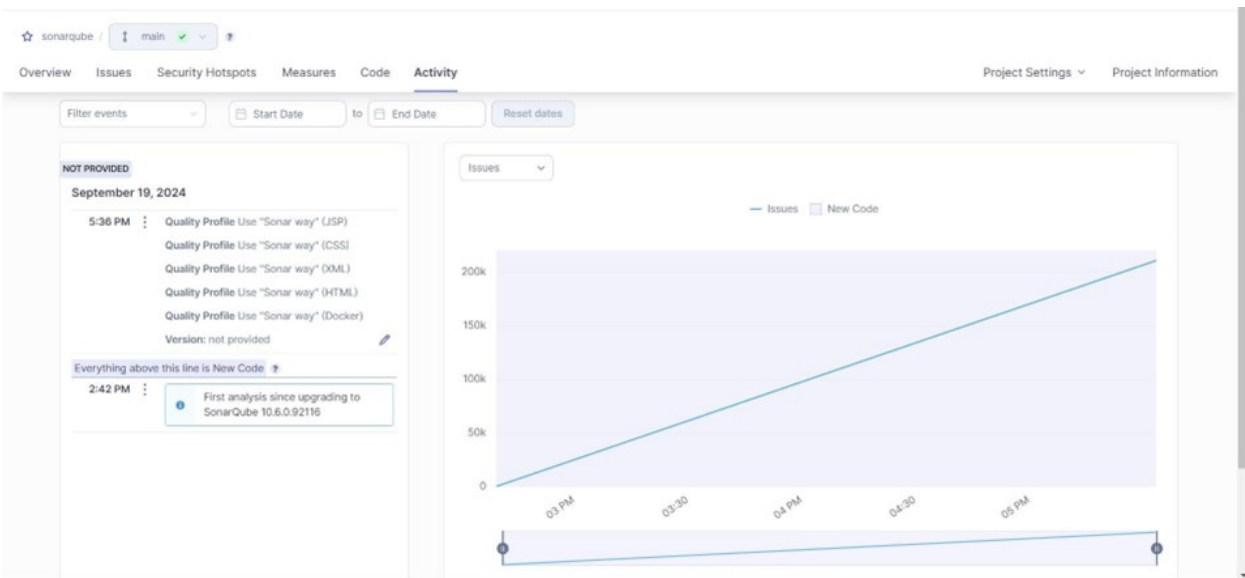
gameoflife-coreA

gameoflife-deployA

gameoflife-webA

pom.xmlA

6 of 6 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	9.6%
gameoflife-deploy	0	0.0%
gameoflife-web	383,633	50.9%
pom.xml	0	0.0%