

Adv. Devops Experiment no. 8

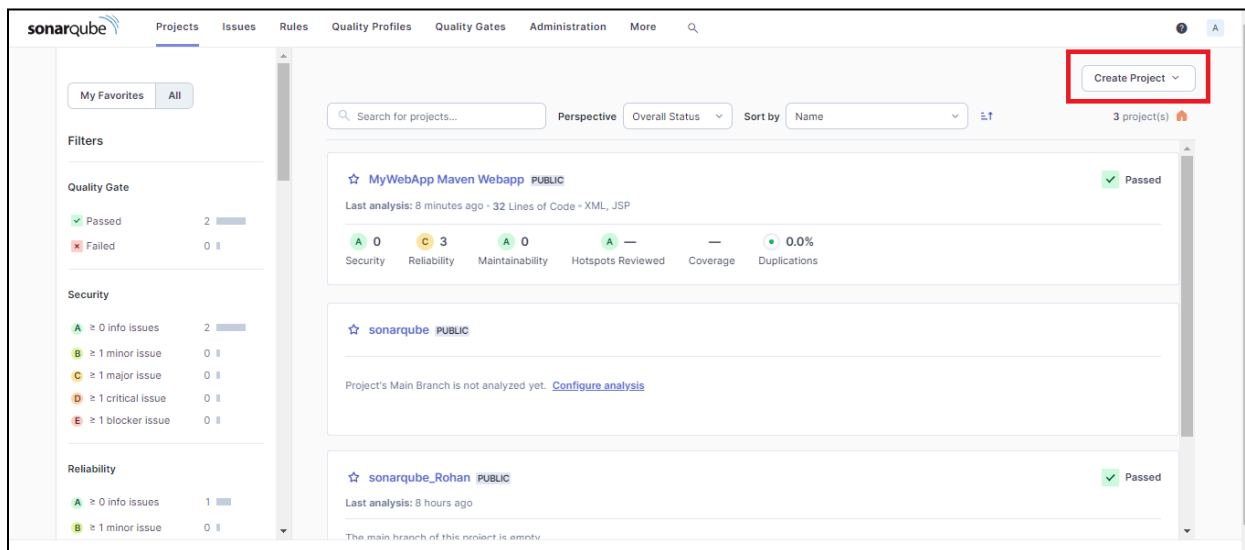
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Class: D15A Roll no.: 25

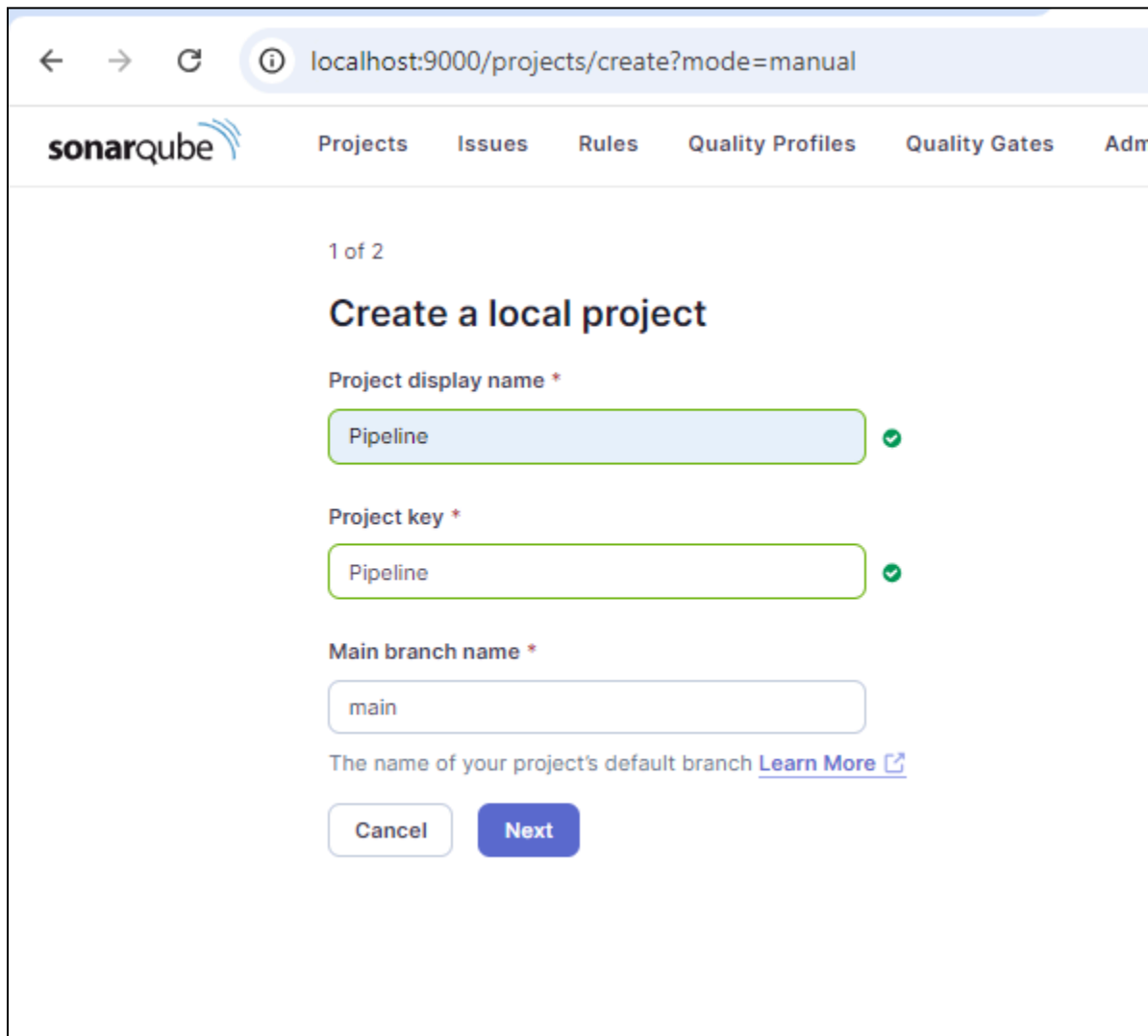
Aim: To understand the Kubernetes Cluster Architecture, install and Spin Up a Kubernetes Cluster on Linux Machines/Cloud Platforms.

Implementation:

1. Download SonarQube by following steps of experiment 7, login using credentials and create a new project.



2. Type the name of the project as shown.



The screenshot shows the SonarQube web interface at the URL `localhost:9000/projects/create?mode=manual`. The page is titled "1 of 2" and "Create a local project". It contains three required fields: "Project display name", "Project key", and "Main branch name". The first two fields are filled with "Pipeline" and have green checkmarks to their right. The third field is filled with "main". Below the fields is a link "Learn More" with an external icon. At the bottom are "Cancel" and "Next" buttons.

localhost:9000/projects/create?mode=manual

sonarqube

Projects Issues Rules Quality Profiles Quality Gates Admin

1 of 2

Create a local project

Project display name *

Pipeline ✓

Project key *

Pipeline ✓

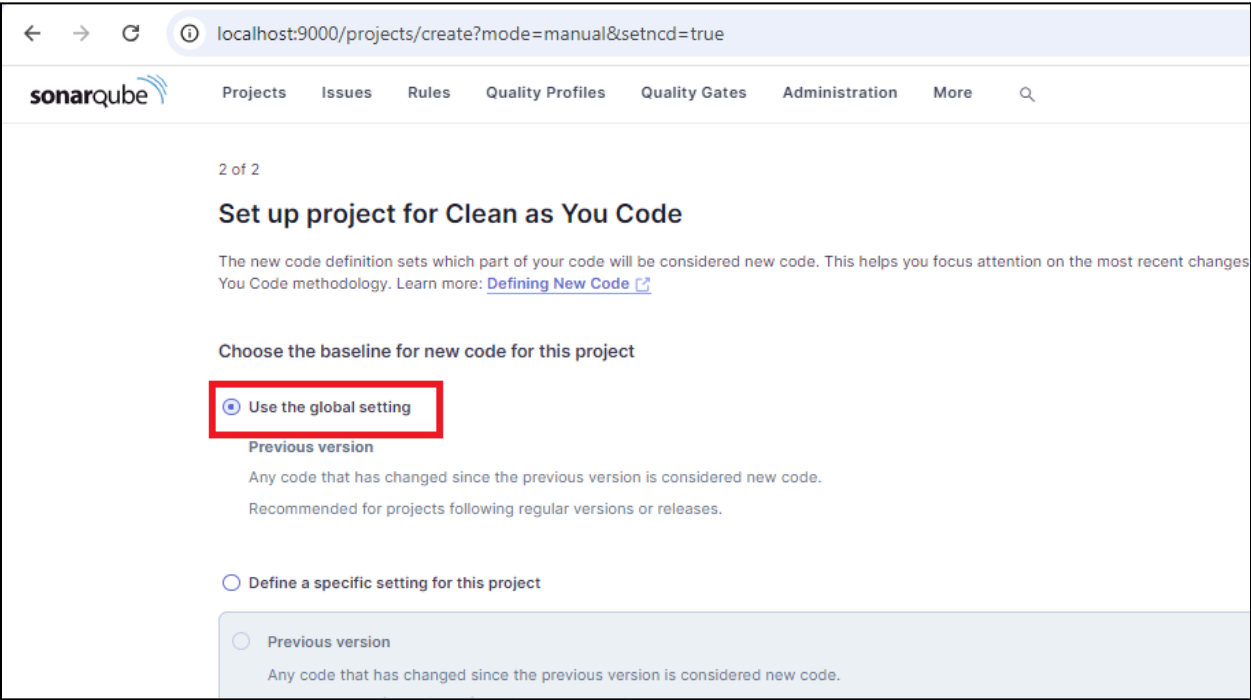
Main branch name *

main

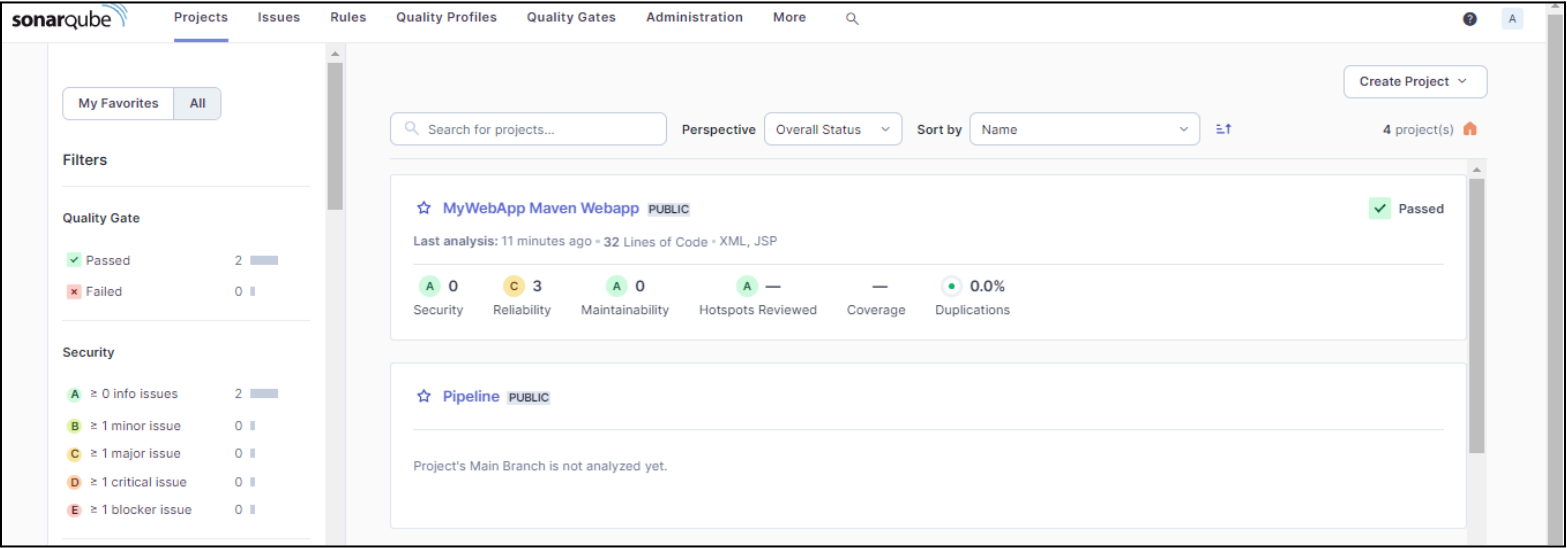
The name of your project's default branch [Learn More](#)

Cancel Next

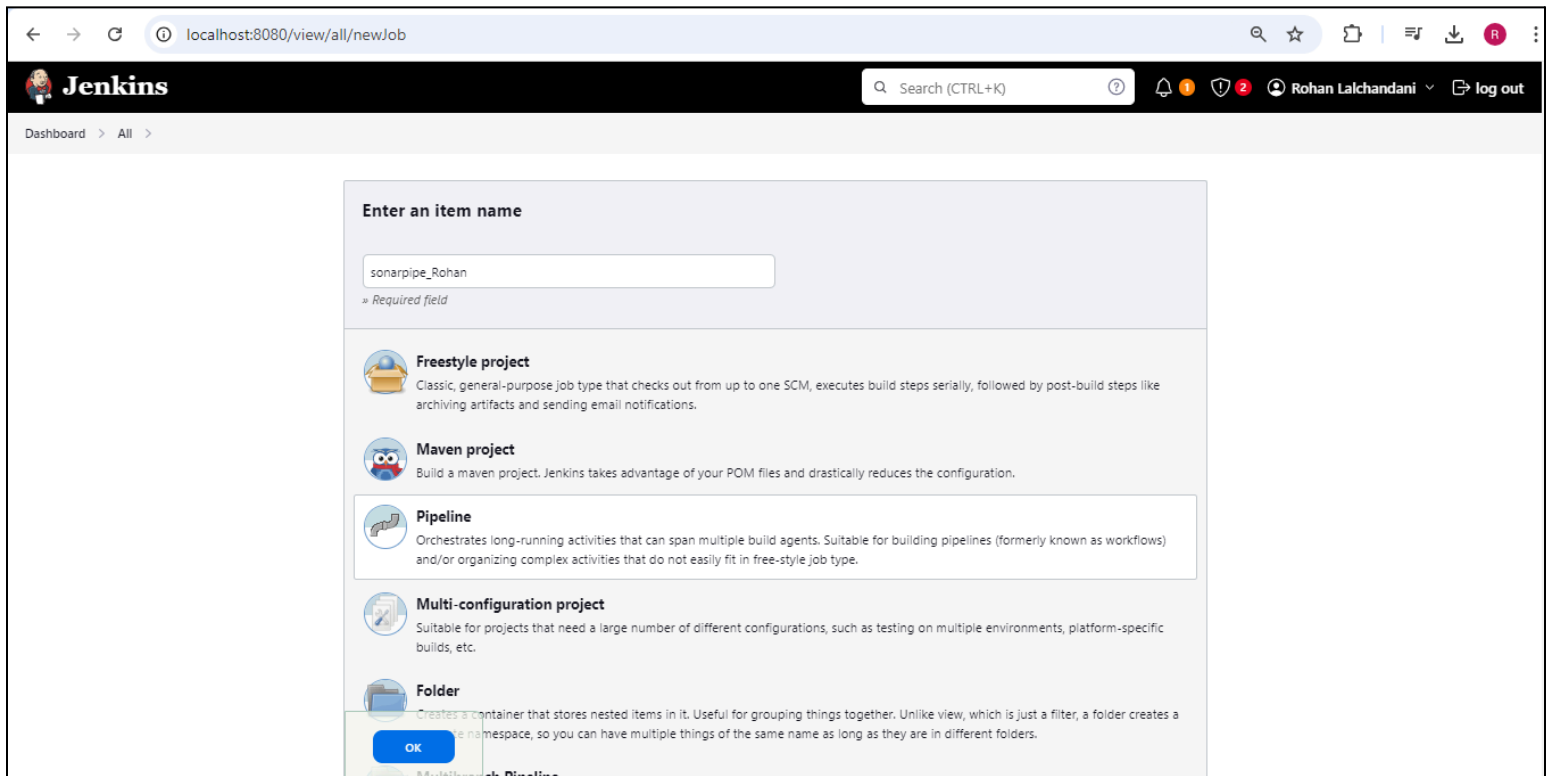
3. Use the global setting.



4. See if your project is created in the dashboard.



5. Now go to Jenkins, and create a pipeline.



6. Enter the pipeline script

```
node {
  stage('Cloning the GitHub Repo') {
    git 'https://github.com/shazforiot/GOL.git'
  }

  stage('SonarQube analysis') {
    withSonarQubeEnv('<Name_of_SonarQube_environment_on_Jenkins>') {
      sh """
        <PATH_TO_SONARQUBE_SCANNER_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=<SonarQube_URL> # Default: http://localhost:9000/
      """
    }
  }
}
```

Pipeline

Definition

Pipeline script

Script ?

```
1 node {
2   stage('Cloning the GitHub Repo') {
3     git 'https://github.com/shazforiot/GOL.git'
4   }
5   stage('SonarQube analysis') {
6     withSonarQubeEnv('sonarqube') {
7       bat """
8         docker run --rm ^
9         -e SONAR_HOST_URL=http://172.28.64.1:9000 ^
10        -v ${WORKSPACE.replace('\', '/')}:usr/src ^
11        sonarsource/sonar-scanner-cli ^
12        -Dsonar.projectKey=sonarqube-test ^
13        -Dsonar.sources=. ^
14        -Dsonar.exclusions=*/resources/,/*.java ^
15        -Dsonar.login=admin ^
16        -Dsonar.password=squ_cfcf524f12368dd3db0ba4422d89747e0299355f
17        """
18     }
19   }
20 }
```

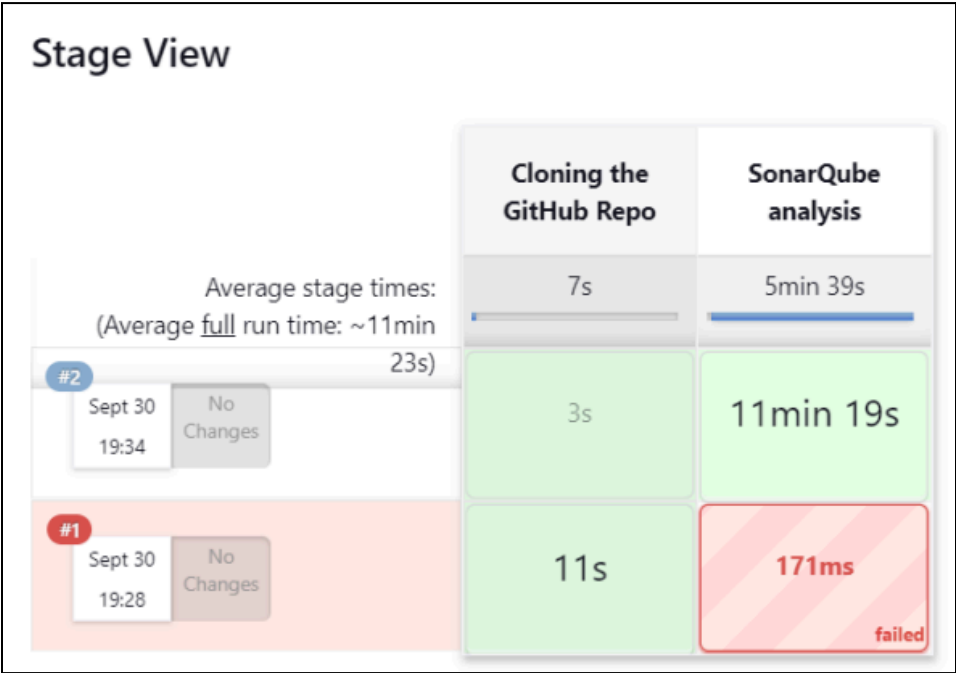
☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save

Apply

7. See the Stage view and console output the build has completed successfully.



Jenkins

Search (CTRL+K)Soham SatputeLog out

Dashboard > SonarQube_pipeline > #2

Status

Changes

Console Output

Edit Build Information

Delete build #2

Timings

Git Build Data

Pipeline Overview

Pipeline Console

Replay

Pipeline Steps

Module View

Console Output

DownloadCopyView as plain text

Skipping 4,247 KB. [Full Log](#)

19:43:43.934 WARN Too many duplication references on file gameoflife-web/tools/jmeter/docs/api/org/apache/jmeter/report/gui/LineGraphGui.html for block at line 145. Keep only the first 100 references.
19:43:43.934 WARN Too many duplication references on file gameoflife-web/tools/jmeter/docs/api/org/apache/jmeter/report/gui/LineGraphGui.html for block at line 506. Keep only the first 100 references.
19:43:43.934 WARN Too many duplication references on file gameoflife-web/tools/jmeter/docs/api/org/apache/jmeter/report/gui/LineGraphGui.html for block at line 759. Keep only the first 100 references.
19:43:43.934 WARN Too many duplication references on file gameoflife-web/tools/jmeter/docs/api/org/apache/jmeter/report/gui/LineGraphGui.html for block at line 705. Keep only the first 100 references.
19:43:43.934 WARN Too many duplication references on file gameoflife-web/tools/jmeter/docs/api/org/apache/jmeter/report/gui/LineGraphGui.html for block at line 659. Keep only the first 100 references.
19:43:43.934 WARN Too many duplication references on file gameoflife-web/tools/jmeter/docs/api/org/apache/jmeter/report/gui/LineGraphGui.html for block at line 511. Keep only the first 100 references.
19:43:43.934 WARN Too many duplication references on file gameoflife-web/tools/jmeter/docs/api/org/apache/jmeter/report/gui/LineGraphGui.html for block at line 578. Keep only the first 100 references.
19:43:43.934 WARN Too many duplication references on file gameoflife-web/tools/jmeter/docs/api/org/apache/jmeter/report/gui/LineGraphGui.html for block at line 707. Keep only the first 100 references.
19:43:43.934 WARN Too many duplication references on file gameoflife-web/tools/jmeter/docs/api/org/apache/jmeter/report/gui/LineGraphGui.html for

8. See the analysis report in SonarQube.

Sonarqube-testmain

OverviewIssuesSecurity HotspotsMeasuresCodeActivityProject SettingsProject Information

Quality Gate

Passed

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

New Code

Overall Code

New Code: Since September 20, 2024 Started 4 days ago

New Issues

0

Required = 0

Accepted Issues

0

Valid issues that were not fixed

Coverage

Duplications

Security Hotspots

0

My IssuesAll

Filters

Issues in new code

Clean Code Attribute

Consistency197k

Intentionality14k

Adaptability0

Responsibility0

Software Quality

☐Bulk Change

Select Issues⌵⌶Navigate to Issue⌵⌶210,549 issues3135d effort

gameoflife-acceptance-tests/Dockerfile

☐Use a specific version tag for the image.

Intentionality

Maintainability🔗

No tags⌵

☐Open⌵

☐Not assigned⌵

L1 · 5min effort · 4 years ago · @ Code Smell · @ Major

☐Surround this variable with double quotes; otherwise, it can lead to unexpected behavior.

Intentionality

Maintainability🔗

No tags⌵

☐Open⌵

☐Not assigned⌵

L12 · 5min effort · 4 years ago · @ Code Smell · @ Major

☐Surround this variable with double quotes; otherwise, it can lead to unexpected behavior.

Intentionality

Maintainability🔗

No tags⌵

☐Open⌵

☐Not assigned⌵