

## Contents

Jenkins Pipeline as Code – Jenkinsfile for Static Code Analysis .....	2
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## Jenkins Pipeline as Code – Jenkinsfile for Static Code Analysis

1. Following is the Pipeline that uses docker image 'sonarsource/sonar-scanner-cli:latest' as an agent and performs static code analysis.

```
2. pipeline {
3.   agent any
4.
5.   stages {
6.     stage('SCA') {
7.       agent {
8.         docker {
9.           image 'sonarsource/sonar-scanner-cli:latest'
10.        }
11.      }
12.      steps {
13.        echo "Steps to execute SCA"
14.        withSonarQubeEnv(installationName: 'SonarQube', credentialsId:
15.          'SonarToken') {
16.          sh 'sonar-scanner -Dsonar.projectVersion=1.0 -
17.            Dsonar.projectKey=react-bmi-app -Dsonar.sources=src'
18.        }
19.        waitForQualityGate(abortPipeline: true, credentialsId: 'SonarT
20.          oken')
21.      }
22.    }
23.  }
```

2. You can also use Dockerfile as an Agent.

### Dockerfile.sonar

FROM sonarsource/sonar-scanner-cli:latest

### Jenkinsfile

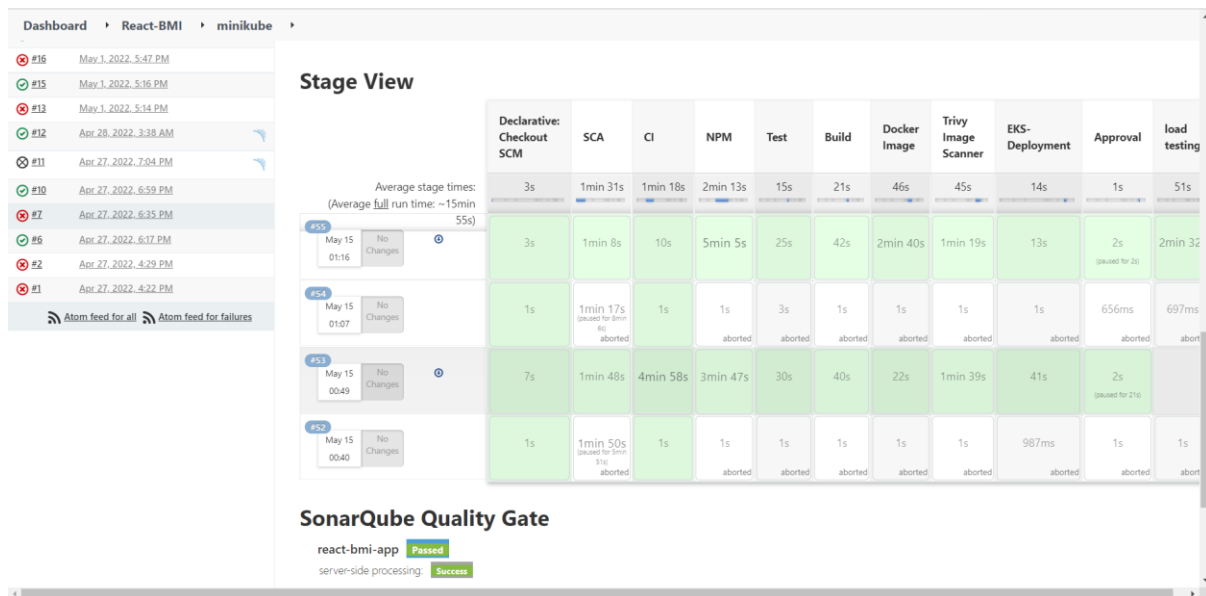
```
1. pipeline {
2.   agent any
3.
4.   stages {
5.     stage('SCA') {
6.       agent {
7.         dockerfile {
8.           filename 'Dockerfile.sonar'
9.        }
10.      }
11.      steps {
12.        echo "Steps to execute SCA"
13.        withSonarQubeEnv(installationName: 'SonarQube', credentialsId:
14.          'SonarToken') {
```

```

14.     sh 'sonar-scanner -Dsonar.projectVersion=1.0 -
        Dsonar.projectKey=react-bmi-app -Dsonar.sources=src'
15.     }
16.     waitForQualityGate(abortPipeline: true, credentialsId: 'SonarToken')
17.   }
18. }
19. }
20. }

```

### 3. Execute Pipeline in Jenkins. Verify SonarQube Quality Gate status.



### 4. Verify the Console logs for following:

Checking status of SonarQube task 'AX4hm1OcKzRTh-f6frYb' on server 'SonarQube'

SonarQube task 'AX4hm1OcKzRTh-fxxxxxx' status is 'IN\_PROGRESS'

SonarQube task 'AX4hm1OcKzRTh-fxxxxxx' status is 'SUCCESS'

SonarQube task 'AX4hm1OcKzRTh-fxxxxxx' completed. Quality gate is 'OK'

### 5. Verify SonarQube Dashboard.

sonarqube

ProjectsIssuesRulesQuality ProfilesQuality GatesAdministration

🔍 Search for projects...

A

react-bmi-app

☆

🔗 master

May 15, 2022, 1:17 AMVersion 1.0

OverviewIssuesSecurity HotspotsMeasuresCodeActivity

Project SettingsProject Information

QUALITY GATE STATUS

Passed

All conditions passed.

MEASURES

New Code

Since April 27, 2022

Started 19 days ago

Overall Code

0

New Bugs

Reliability

A

0

New Vulnerabilities

Security

A

0

New Security Hotspots

Reviewed

Security Review

A

0

Added Debt

0

New Code Smells

Maintainability

A

Coverage on 0 New Lines to cover

Duplications on 0 New Lines

Done!