APRIL 12, 2024

DevOps Classroom Notes – 12 April 2024

**Performing Static Code Analysis with sonarqube**

* Static Code Analysis results will check
  + code quality and detect code smells
  + code coverage from unit tests
* Sonarqube can be extended with custome rules
* Integrating sonar qube with jenkins [Refer Here](https://docs.sonarsource.com/sonarqube/latest/analyzing-source-code/ci-integration/jenkins-integration/)
* [Refer Here](https://docs.sonarsource.com/sonarqube/latest/analyzing-source-code/scanners/jenkins-extension-sonarqube/#jenkins-pipeline) for jenkins pipeline
* Pipeline

pipeline {

agent { label 'spc' }

stages {

stage('git') {

steps {

git url: 'https://github.com/spring-projects/spring-petclinic.git', branch: 'main'

}

}

stage('build with sonar') {

steps {

withSonarQubeEnv(credentialsId: 'SONAR\_CLOUD', installationName: 'sonarcloud') { // You can override the credential to be used

sh '/opt/maven/bin/mvn clean package org.sonarsource.scanner.maven:sonar-maven-plugin:3.7.0.1746:sonar -D sonar.organization=<your-project> -D sonar.projectKey=<your-token>'

}

junit testResults: '\*\*/surefire-reports/\*.xml'

archive '\*\*/target/spring-petclinic-\*.jar'

}

}

stage("Quality Gate") {

steps {

timeout(time: 1, unit: 'HOURS') {

// Parameter indicates whether to set pipeline to UNSTABLE if Quality Gate fails

// true = set pipeline to UNSTABLE, false = don't

waitForQualityGate abortPipeline: true

}

}

}

}

}

* If you are aware of Azure devops integrate sonar with azure devops [Refer Here](https://docs.sonarsource.com/sonarcloud/advanced-setup/ci-based-analysis/sonarcloud-extension-for-azure-devops/)
* [Refer Here](https://github.com/SonarSource/sonar-scanner-jenkins/blob/master/sonar-docs/analysis/scan/sonarscanner-for-jenkins.md) for sonarscanner examples

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