SIT223 task 6.1c: Amit Kafe - pipeline definition

Continuous Integration and Deployment with Jenkins and GitHub

Pipeline code

```
pipeline {
 agent any
 stages {
   stage('Build') {
     steps {
       echo "Use Maven to automatically compile and package code..."
     }
   }
   stage('Unit and Integration testing') {
     steps {
       echo "Running unit testing using JUnit"
       echo "Running integration tests using Selenium"
     }
     post {
       always {
         emailext(
           to: "amit.kafe5987@gmail.com",
           subject: "Unit and Integration testing: Success",
           body: "Stage 'Unit and Integration Tests' completed with status
${currentBuild.result}Check console output at ${env.BUILD_URL} to view the
result.",
           attachLog: true
         )
       }
     }
```

```
}
   stage('Code Analysis') {
     steps {
       echo "Running Sonar Qube scanner..."
       echo "Analyzing code"
     }
   }
   stage('Security Scan') {
     steps {
       echo "Run OWASP Dependency-Check to perform security scan"
     }
     post {
       always {
         emailext(
          to: "amit.kafe5987@gmail.com",
           subject: "Security scan successful",
           body: "Stage 'Security Scan' completed with status
${currentBuild.result}Check console output at ${env.BUILD_URL} to view the
result.",
           attachLog: true
         )
       }
     }
   }
   stage('Deploy to staging') {
     steps {
       echo "Using AWS CodeDeploy to deploy to staging"
       echo "Deploying the application to staging server: SLB TYA"
     }
```

```
}
    stage('Integration Tests on staging') {
     steps {
       echo "Executing integration tests using Selenium"
       echo "mvn test -Dtest=IntegrationTest"
     }
   }
   stage('Deploy to production') {
     steps {
       echo "Using AWS CodeDeploy to deploy the application to production"
       echo "aws deploy create-deployment"
       echo "application-name <SIT223 Amit Kafe>"
     }
   }
  }
}
```

Console output

Started by user Amit Kafe

Obtained jenkinsfile from git https://github.com/Amit5879/jenkins-pipeline-updated.git

[Pipeline] Start of Pipeline

[Pipeline] node

Running on Jenkins

in /var/jenkins_home/workspace/task 6.1c new

[Pipeline] {

[Pipeline] stage

[Pipeline] { (Declarative: Checkout SCM)

[Pipeline] checkout

Selected Git installation does not exist. Using Default

The recommended git tool is: NONE

using credential 3f4f768d-92d9-46e7-b7a3-3da9f12f9158

> git rev-parse --resolve-git-dir /var/jenkins_home/workspace/task 6.1c new/.git # timeout=10

Fetching changes from the remote Git repository

> git config remote.origin.url https://github.com/Amit5879/jenkins-pipeline-updated.git # timeout=10

Fetching upstream changes from https://github.com/Amit5879/jenkins-pipeline-updated.git

> git --version # timeout=10

> git --version # 'git version 2.39.2'

using GIT_ASKPASS to set credentials

> git fetch --tags --force --progress -- https://github.com/Amit5879/jenkins-pipeline-updated.git +refs/heads/*:refs/remotes/origin/* # timeout=10

> git rev-parse refs/remotes/origin/main^{commit} # timeout=10 Checking out Revision 93cea7cd9fa86559529b826ee3fec8555f6f6f5f (refs/remotes/origin/main) > git config core.sparsecheckout # timeout=10 > git checkout -f 93cea7cd9fa86559529b826ee3fec8555f6f6f5f # timeout=10 Commit message: "new update" > git rev-list --no-walk 93cea7cd9fa86559529b826ee3fec8555f6f6f5f # timeout=10 [Pipeline] } [Pipeline] // stage [Pipeline] withEnv [Pipeline] { [Pipeline] stage [Pipeline] { (Build) [Pipeline] echo Use Maven to automatically compile and package code... [Pipeline] } [Pipeline] // stage [Pipeline] stage [Pipeline] { (Unit and Integration testing) [Pipeline] echo Running unit testing using JUnit [Pipeline] echo Running integration tests using Selenium Post stage [Pipeline] emailext Sending email to: amit.kafe5987@gmail.com [Pipeline] }

[Pipeline] // stage

```
[Pipeline] stage
[Pipeline] { (Code Analysis)
[Pipeline] echo
Running Sonar Qube scanner...
[Pipeline] echo
Analyzing code
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Security Scan)
[Pipeline] echo
Run OWASP Dependency-Check to perform security scan
Post stage
[Pipeline] emailext
Sending email to: amit.kafe5987@gmail.com
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy to staging)
[Pipeline] echo
Using AWS CodeDeploy to deploy to staging
[Pipeline] echo
Deploying the application to staging server: SLB TYA
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Integration Tests on staging)
[Pipeline] echo
```

Executing integration tests using Selenium [Pipeline] echo mvn test -Dtest=IntegrationTest [Pipeline] } [Pipeline] // stage [Pipeline] stage [Pipeline] { (Deploy to production) [Pipeline] echo Using AWS CodeDeploy to deploy the application to production [Pipeline] echo aws deploy create-deployment [Pipeline] echo application-name < SIT223 Amit Kafe> [Pipeline] } [Pipeline] // stage [Pipeline] } [Pipeline] // withEnv [Pipeline] } [Pipeline] // node [Pipeline] End of Pipeline Finished: SUCCESS