

```

pipeline {
    agent any

    stages {
        stage('Build') {
            steps {
                // Build the code using Maven or another build automation tool
                echo "Build Stage"
            }
        }
        stage('Unit and Integration Tests') {
            steps {
                // Run unit tests using JUnit or another test automation tool
                // Run integration tests using Selenium or another integration
testing tool
                echo "Testing Stage"
            }
        }
        stage('Code Analysis') {
            steps {
                // Integrate a code analysis tool like SonarQube or Checkstyle
                echo "Code Analysis Stage"
            }
        }
        stage('Security Scan') {
            steps {
                // Perform a security scan using tools like OWASP ZAP or
SonarQube
                echo "Security Stage"
            }
        }
        stage('Deploy to Staging') {
            steps {
                // Deploy the application to a staging server, e.g., AWS EC2
instance
                echo "Deployment Stage"
            }
        }
        stage('Integration Tests on Staging') {
            steps {
                // Run integration tests on the staging environment
                echo "Integration Stage"
            }
        }
        stage('Deploy to Production') {
            steps {
                // Deploy the application to a production server, e.g., AWS
EC2 instance
            }
        }
    }
}

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        echo "Production Stage"
    }

    post {
        success {
            // Send email notification on successful deployment
            emailx (
                to: 's223914256@deakin.edu.au',
                subject: 'Deployment Successful',
                body: 'The deployment was successful. Please verify.'
            )
        }
    }
}
}
```