Jenkins file : -

```
pipeline {
    agent any

    stages {
        stage('Build') {
            steps {
                echo 'Building the code using Maven'
                echo 'mvn clean package'
            }
        }

        stage('Unit and Integration Tests') {
            steps {
                echo 'Running unit tests with JUnit'
                echo 'mvn test'
                echo 'Running integration tests with Selenium'
                echo 'mvn integration-test'
            }
            post{
                success{
                    mail to: 'jeetmane3801@gmail.com',
                    subject: 'Test results',
                    body: 'Dear Client, your Test Result was success.'
                    }
                failure{
                    mail to:'jeetmane3801@gmail.com',
                    subject:'Test results',
                    body:'Dear Client, your Test Result was fail, condolences.'
                }
            }
        }
        stage('Code Analysis') {
            steps {
                echo 'Analyzing code with SonarQube'
                echo 'mvn sonar:sonar'
            }
        }

        stage('Security Scan') {
            steps {
                echo 'Performing security scan with OWASP Dependency-Check'
                echo 'mvn org.owasp:dependency-check-maven:check'
            }
            post{
                success{
                    mail to: 'jeetmane3801@gmail.com',
                    subject: 'security scan',
                    body: 'Dear Client your security scan was success.'
                }
```

```
            failure{
                mail to:'jeetmane3801@gmail.com',
                subject:'security scan',
                body:'Dear Client your security scan was fail, condolences.'
            }
        }
    }

    stage('Deploy to Staging') {
        steps {
            echo 'Deploying to AWS EC2 staging server'
            echo 'ansible-playbook -i inventory/staging deploy.yml'
        }
    }

    stage('Integration Tests on Staging') {
        steps {
            echo 'Running integration tests on staging environment with
Postman/Newman'
            echo 'newman run StagingTests.json'
        }
    }

    stage('Deploy to Production') {
        steps {
            echo 'Deploying to AWS EC2 production server'
            echo 'ansible-playbook -i inventory/production deploy.yml'
        }
    }
    }
}
```