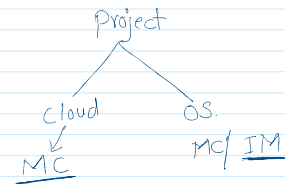


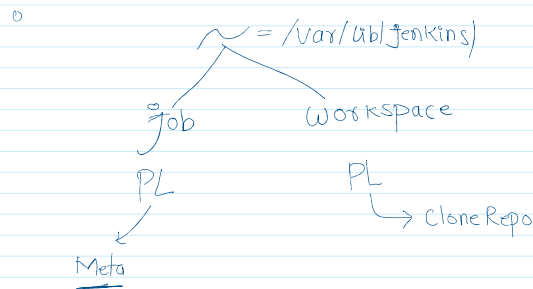
- Java 11 (JDK+JRE)
  - Maven (Install, Configure with Jenkins, Report Surefire)
  - Git (Github) = Repo
- SpringBoot
- Project
  - Jenkins file = Pipeline.
  - Ansible Playbook.yml
  - Docker file
  - Selenium.jar
- DB
- In-Memory (H2 Database)



## I] CI Server (Jenkins)

- Suggested Plugins
- Before
  - Java
  - Maven
  - Docker
  - Ansible

Jenkins Uses



1. Create Jenkins Pipeline with this: PL-insureMe

```
node{
  def mavenHome
  def mavenCMD
  def tagName
  stage('Test'){
    echo "Welcome"
  }
}
```

2. Generate PAT in GitHub

### 3. Add GitHub Credentials in Jenkins

4. Configure External Tools:  
a. Manage Jenkins -> Tools -> Maven -> Name, Home Path

```
node{
  def mavenHome
  def mavenCMD
  def tagName
  stage('Start'){
    echo "Welcome to InsureMe Project"
  }
  stage('Prepare Environment'){
    echo 'Initialize all the variables'
    mavenHome = tool name: 'maven', type: 'maven'
    mavenCMD = "${mavenHome}/bin/mvn"
    tagName="3.0"
  }
  stage('Project Cloning'){
    try{
      echo 'checkout the code from git repository'
      git credentialsId: 'jenkins-github', url: 'https://github.com/NubeEra-MCO/InsureMe.git'
    }
    catch(Exception e){
      echo 'Exception occurred in Git Code Checkout Stage'
      currentBuild.result = "FAILURE"
      emailText body: "Dear All,  
The Jenkins job $JOB_NAME has been failed. Request you to please have a look at it immediately by clicking on the below link.  
${BUILD_URL}", subject: 'Job $JOB_NAME $BUILD_NUMBER is failed', to: 'mujahed.trainer@gmail.com'
    }
  }
  stage('End'){
    echo "Bye bye"
  }
}
```

### 5. Install Plugin "HTML Publisher plugin"

```
6. Add Reporting Stage:
stage('publish test reports'){
  echo "Reporting"
  publishHTML([allowMissing: false, alwaysLinkToLastBuild: false, keepAll: false, reportDir: '/var/lib/jenkins/workspace/PL-InsureMe/target/surefire-reports', reportFiles: 'index.html', reportName: 'HTML Report', reportTitles: "", useWrapperFileDirectly: true])
}
```

7. Install Docker Plugins  
a. Docker  
b. Docker Pipeline

### 8. Execute Pipeline:

```
node{
  def mavenHome
  def mavenCMD
  def tagName
  stage('Start'){
    echo "Welcome to InsureMe Project"
  }
  stage('Prepare Environment'){
    echo 'Initialize all the variables'
    mavenHome = tool name: 'maven', type: 'maven'
    mavenCMD = "${mavenHome}/bin/mvn"
    tagName="3.0"
  }
  stage('Project Cloning'){
    try{
      echo 'checkout the code from git repository'
      //git credentialsId: 'jenkins-github', url: 'https://github.com/NubeEra-MCO/InsureMe.git'
    }
    catch(Exception e){
      echo 'Exception occurred in Git Code Checkout Stage'
      currentBuild.result = "FAILURE"
      emailText body: "Dear All,  
The Jenkins job $JOB_NAME has been failed. Request you to please have a look at it immediately by clicking on the below link.  
${BUILD_URL}", subject: 'Job $JOB_NAME $BUILD_NUMBER is failed', to: 'mujahed.trainer@gmail.com'
    }
  }
  stage('Build the Application'){
    echo "Cleaning... Compiling... Testing... Packaging..."
    //sh "${mavenCMD} clean package"
  }
  stage('publish test reports'){
    echo "Reporting"
    //publishHTML([allowMissing: false, alwaysLinkToLastBuild: false, keepAll: false, reportDir: '/var/lib/jenkins/workspace/PL-InsureMe/target/surefire-reports', reportFiles: 'index.html', reportName: 'HTML Report', reportTitles: "", useWrapperFileDirectly: true])
  }
  stage('Containerize the application'){
    echo 'Creating Docker image'
    sh "docker build -t mujahed/insure-me:${tagName} ."
  }
  stage('End'){
    echo "Bye bye"
  }
}
```

