**Pull Request**

* Refer <https://docs.github.com/en/github/collaborating-with-pull-requests/proposing-changes-to-your-work-with-pull-requests/about-pull-requests> for understanding the pull requests

**CICD Pipelines**

* As discussed in the class create nodes with deployment tools installed and change the Jenkinsfile to have a stage for CD or create a new job and in build triggers configure the deployment job as downstream.
* From jenkins we just need to add an sh step as shown below. Refer stage(Ansible) from below

pipeline {

agent { label 'GOL'}

triggers {

cron('H \* \* \* \*')

pollSCM('\* \* \* \* \*')

}

parameters {

string(name: 'BRANCH', defaultValue: 'master', description: 'Branch to build' )

choice(name: 'GOAL', choices: ['package', 'clean package', 'install'], description: 'maven goals')

}

options {

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

retry(2)

}

environment {

CI\_ENV = 'DEV'

}

stages {

stage('scm') {

environment {

DUMMY = 'FUN'

}

steps {

mail subject: 'BUILD Started '+env.BUILD\_ID, to: 'devops@qt.com', from: 'jenkins@qt.com', body: 'EMPTY BODY'

git branch: "${params.BRANCH}", url: 'https://github.com/asquarezone/game-of-life.git'

//input message: 'Continue to next stage? ', submitter: 'qtaws,qtazure'

echo env.CI\_ENV

echo env.DUMMY

}

}

stage('build') {

steps {

echo env.GIT\_URL

timeout(time:10, unit: 'MINUTES') {

sh "mvn ${params.GOAL}"

}

}

}

stage('Ansible') {

agent { label 'ANSIBLE'}

steps{

// requires SonarQube Scanner for Maven 3.2+

sh 'cd deployment && ansible-playbook -i hosts deploy.yaml'

}

}

}

post {

success {

archive '\*\*/gameoflife.war'

junit '\*\*/TEST-\*.xml'

mail subject: 'BUILD Completed Successfully '+env.BUILD\_ID, to: 'devops@qt.com', from: 'jenkins@qt.com', body: 'EMPTY BODY'

}

failure {

mail subject: 'BUILD Failed '+env.BUILD\_ID+'URL is '+env.BUILD\_URL, to: 'devops@qt.com', from: 'jenkins@qt.com', body: 'EMPTY BODY'

}

always {

echo "Finished"

}

changed {

echo "Changed"

}

unstable {

mail subject: 'BUILD Unstable '+env.BUILD\_ID+'URL is '+env.BUILD\_URL, to: 'devops@qt.com', from: 'jenkins@qt.com', body: 'EMPTY BODY'

// for unstable

}

}

}