

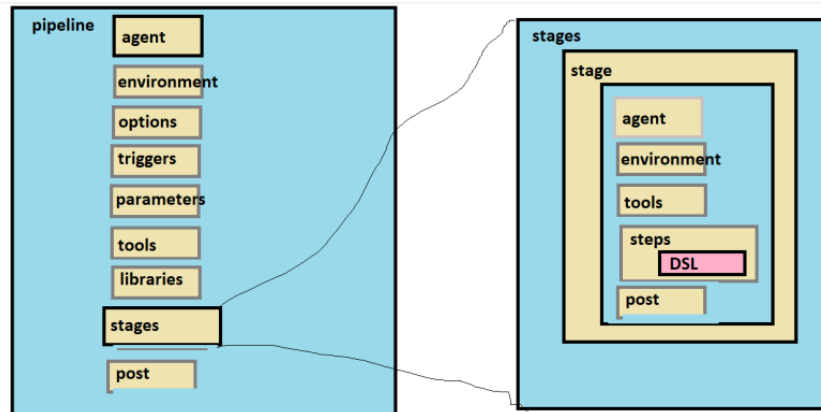


MARCH 3, 2023

DevOps Classroomnotes 03/Mar/2023

Declarative Pipelines

- Jenkins has a DSL (Domain Specific Language) for creating Declarative Pipelines
- Jenkins Pipeline Syntax official docs [Refer Here](#)



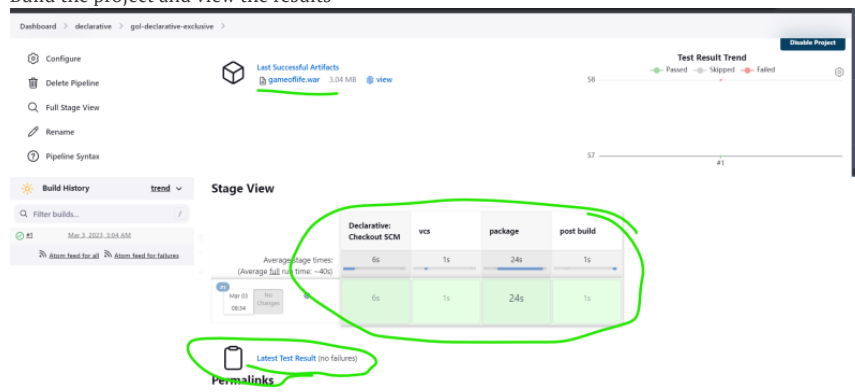
- Lets build a game of life declarative pipeline

```

pipeline {
  agent { label 'MAVEN_JDK8' }
  stages {
    stage('vcs') {
      steps {
        git url: 'https://github.com/khajadevopsmarch23/game-of-life.git',
            branch: 'declarative'
      }
    }
    stage('package') {
      steps {
        sh 'mvn package'
      }
    }
    stage('post build') {
      steps {
        archiveArtifacts artifacts: '**/target/gameoflife.war',

```

- [Refer Here](#)
- Build the project and view the results



- Exercise: Create a pipeline with 3 stages
 - vcs:
 - run the command `git --version`
 - should run on agent with label 'git'
 - build
 - run the command `mvn --version`
 - should run on agent with label 'maven' or 'maven-jdk8'
 - deploy

- run the command `kubectl --version`
 - should run on agent with label 'k8s' and 'developer'
- Solution

```
pipeline {
  agent none
  stages {
    stage('vcs') {
      agent { label 'GIT' }
      steps {
        sh 'git --version'
      }
    }
    stage('build') {
      agent { label 'MAVEN || MAVEN_JDK8' }
      steps {
        sh 'mvn --version'
      }
    }
    stage('deploy') {
      agent { label 'k8s && developer' }
      steps {

```

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