## Assignment 1

Deploy gameoflife.war file on a tomcat 9 container using Dockerfile.

Put the Dockerfile in Git, then clone it and clone the gameoflife project from Git as well.

## Pipeline

**pipeline {**

**agent {**

**label {**

**label "built-in"**

**customWorkspace "/mnt/jenkins/"**

**}**

**}**

**stages {**

**stage ('install-git') {**

**steps {**

**sh "yum install git -y"**

**}**

**}**

**stage ('clone-project') {**

**steps {**

**dir ('/mnt/project/') {**

**sh ("rm -rf \*")**

**sh "git clone https://github.com/aakashchavhan/game-of-life.git"**

**}**

**}**

**}**

**stage ('download-maven') {**

**steps {**

**dir ('/mnt/build-tool/') {**

**sh "rm -rf \*"**

**sh "wget https://dlcdn.apache.org/maven/maven-3/3.8.6/binaries/apache-maven-3.8.6-bin.zip"**

**sh "unzip apache-maven-3.8.6-bin.zip"**

**}**

**}**

**}**

**stage ('build-app') {**

**steps {**

**dir ('/mnt/project/game-of-life/') {**

**sh "yum install maven -y"**

**sh "mvn install"**

**}**

**}**

**}**

**stage ('copy-app') {**

**steps {**

**dir ('/mnt/project/game-of-life/gameoflife-web/target/') {**

**sh "cp -r gameoflife.war /mnt"**

**}**

**}**

**}**

**stage ('install-start-docker') {**

**steps {**

**sh "yum install docker -y"**

**sh "systemctl start docker"**

**}**

**}**

**stage ('cloning-dockerfile') {**

**steps {**

**dir ('/mnt') {**

**sh "rm -rf Docker"**

**sh "git clone https://github.com/aakashchavhan/Docker.git"**

**sh "cp -r gameoflife.war /mnt/Docker"**

**}**

**}**

**}**

**stage ('creating-container') {**

**steps {**

**dir ('/mnt/Docker') {**

**sh "docker build -t tom ."**

**sh "docker run -itdp 8085:8080 tom"**

**}**

**}**

**}**

**}**

**}**







