Sample Java Project:

<https://github.com/indranisgt/simple-java-project.git>

Register other machine as node

Graphical user interface, application

Description automatically generated

**Pipeline script to build .war file and deploy application using Docker:**

pipeline {

agent {

label "Slave"

}

tools {

// Install the Maven version configured as "M3" and add it to the path.

maven "mymaven"

}

stages {

stage('Compile') {

steps {

// Get some code from a GitHub repository

git 'https://github.com/indranisgt/simple-java-project.git'

sh "mvn compile"

}

}

stage('Package') {

steps {

sh "mvn package"

}

}

stage('Copy War File') {

steps {

sh "sudo cp /home/ubuntu/jenkins/workspace/PipelineDemo/target/works-with-heroku-1.0.war /home/ubuntu/testdir/"

}

}

stage('Write Dockerfile') {

steps {

writeFile file: '/home/ubuntu/testdir/Dockerfile', text: '''FROM bitnami/tomcat:9.0

COPY works-with-heroku-1.0.war /opt/bitnami/tomcat/webapps\_default/'''

}

}

stage('build and run Docker image') {

steps {

dir("/home/ubuntu/testdir/") {

sh "sudo docker build -t mydemoimage:${BUILD\_NUMBER} ."

sh "sudo docker run -itd -p 8091:8080 mydemoimage:${BUILD\_NUMBER}"

}

}

}

}

}

Table

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Graphical user interface

Description automatically generated with medium confidence

Selenium Test to validate :

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Install chromium in Slave:

sudo apt-get update

sudo apt-get install -y unzip xvfb libxi6 libgconf-2-4

sudo curl -sS -o - <https://dl-ssl.google.com/linux/linux_signing_key.pub> | apt-key add

sudo echo 'deb [arch=amd64] <http://dl.google.com/linux/chrome/deb/> stable main' >> /etc/apt/sources.list.d/google-chrome.list

sudo apt-get -y update

sudo apt-get -y install google-chrome-stable

wget [https://chromedriver.storage.googleapis.com/2.41/chromedriver\_linux64.zip](https://chromedriver.storage.googleapis.com/2.41/chromedriver_linux64.zipunzip)

unzip chromedriver\_linux64.zip

then Run the jar file:

java -jar textvalidation.jar

A picture containing chart

Description automatically generated