Deployment #6

Task: Follow each step of this deployment lab to accomplish your deployment 6. This deployment requires 3 EC2s.

EC2 requirements:

1. First EC2 you will have to install Jenkins or use an already configured Jenkins master:
    a. Plugins needed: nodejs, EC2 plugin and Maven
2. Second EC2 will be agent one:
    a. Set SG incoming ports 22 and 5000
    b. Install default-jre, git, nodejs, and npm
3. Third EC2 you will be agent two:
    a. Set SG incoming port 22
    b. Install default-jre, git, nodejs, npm, maven, libgtk2.0-0, libgtk-3-0, libgbm-dev, libnotify-dev, libgconf-2-4, libnss3, libxss1, libasound2, libxtst6, xauth, xvfb

Now you should be set and ready to build out your pipeline script for this deployment. Before you make your script, make sure you can build on both agents.

Pipeline script:

1. Below is the pipeline script you'll need to make for this deployment.

```
pipeline{
  agent any
  stages {
    stage ('Build') {
      steps {
      sh 'rm -rf ./kura_test_repo/cypress2'
      sh '''
        npm install
        npm run build
        sudo npm install -g serve
        serve -s build
        '''
```

```
      }
    }
    stage ('test') {
      agent {
        label 'Your agent label'
      }
      steps {
      sh '''
        npm install cypress
        npm install mocha
        npx cypress run --spec \
./cypress/integration/test.spec.js
        '''
      }
      post {
        always {
          junit 'results/cypress-report.xml'
        }

      }
    }
  }
}
```

Once you make your Jenkinsfile in your repo, you can try to deploy your own react app or use the React app in the deployment#6 repo.

Files to add to your own repo:

1. Add your add files and cypress folder with the cypress.json file
    a. Inside of the cypress.json, the code in the file enables you to generate a Junit file of the completed test.

b. You may use my test or create your own test.