

Project: Dockerizing Jenkins Pipeline

Hint(s):

1. Update your DockerHub credentials in Jenkinsfile.
2. Make sure the DockerHub credentials are added inside Jenkins.
3. Check if right Jenkins plugins are installed for Automating Node JS.
4. User “Jenkins” should have proper permissions.

Dockerfile

```
FROM jenkins/jenkins:lts
USER root
RUN apt-get update && \
apt-get -y install apt-transport-https \
    ca-certificates \
    curl \
    gnupg2 \
    software-properties-common && \
curl -fsSL https://download.docker.com/linux/$(. /etc/os-release; echo
"$ID")/gpg > /tmp/dkey; apt-key add /tmp/dkey && \
add-apt-repository \
    "deb [arch=amd64] https://download.docker.com/linux/$(. /etc/os-
release; echo "$ID") \
    $(lsb_release -cs) \
    stable" && \
apt-get update && \
apt-get -y install docker-ce
RUN apt-get install -y docker-ce
RUN usermod -a -G docker jenkins
USER jenkins
```

Jenkinsfile

```
pipeline {
  environment {
    registry = "docker_hub_account/repository_name"
    registryCredential = 'dockerhub'
    dockerImage = ''
  }
  agent any
  tools {nodejs "node" }
  stages {
    stage('Cloning Git') {
      steps {
        git
        'https://github.com/SimplilearnDevOpsOfficial/DockerizeJenkins.git '
      }
    }
    stage('Build') {
      steps {
        sh 'npm install'
        sh 'npm run bowerInstall'
      }
    }
    stage('Test') {
      steps {
        sh 'npm test'
      }
    }
    stage('Building image') {
      steps{
        script {
          dockerImage = docker.build registry + ":$BUILD_NUMBER"
        }
      }
    }
    stage('Deploy Image') {
      steps{
        script {
          docker.withRegistry( '', registryCredential ) {
            dockerImage.push()
          }
        }
      }
    }
  }
}
```