Docker CICD project

Create a new project on gitlab

Add Dockerfile, Jenkinsfile and requirement.txt in your gitlab repo

Dockerfile

FROM python:3.9

WORKDIR /app

COPY requirements.txt requirements.txt

RUN pip install -r requirements.txt

COPY . .

CMD ["python", "app.py"]

Jenkinsfile, Modify the line highlighted in red

pipeline {

agent any

stages {

// adasfddded

stage('Checkout the Git repository') {

steps {

git branch: 'main', credentialsId: 'ada46996-16ba-4545-b9c5-f308a0cf747a', url: 'git@gitlab.com:amitopenwriteup/cicd.git'

}

}

stage('Build Docker image') {

steps {

script {

def dockerfile = 'dockerfile'

def registry = 'localhost:5000'

def imageName = 'myimage'

def imageTag = 'latest'

def dockerImage = docker.build("${registry}/${imageName}:${imageTag}", "-f ${dockerfile} .")

dockerImage.push()

}

}

}

}

}

3) touch requirements.txt

4) git add.

git commit -m “add”

git push origin main

4) Start a private docker registry

docker run -d -p 5000:5000 --restart=always --name registry registry:2

4) Start a pipeline job, pipeline from scp

Where you will mention the same gitlab repo