

Build Jenkins Pipeline using docker and Kubernetes

- 1) Create a dockerfile : vi dockerfile
FROM python:3.9

WORKDIR /app

COPY requirements.txt requirements.txt
RUN pip install -r requirements.txt

COPY . .

CMD ["python", "app.py"]
- 2) Add docker file in git repo
- 3) git add .
- 4) git commit -m "test"
- 5) git push
- 6) Create a pipeline project

Create a jenkinsfile and checked-in same git repository

```
pipeline {
  agent any
  stages {
    stage('Checkout Git repository') {
      steps {
        git branch: 'master', url: 'https://github.com/amitopenwriteup/cicd.git'
      }
    }
    stage('Build Docker image') {
      steps {
        script {
          def dockerfile = 'dockerfile'
          def registry = 'http://localhost:5000'
          def imageName = 'myimage'
          def imageTag = 'latest'
          def dockerImage = docker.build("${registry}/${imageName}:${imageTag}",
            "-f ${dockerfile} .")
          dockerImage.push()
        }
      }
    }
  }
}
```

Definition

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

https://github.com/amitopenwriteup/cicd.git

Credentials ?

- none -

Add

Advanced

Script Path ?

jenkinsfile

☒ Lightweight checkout ?

[Pipeline Syntax](#)