Build Jenkins Pipeline using docker and Kubernetes

Install Docker plugin

neport air issue with this plugin

Docker Pipeline 563.vd5d2e5c4007f

Build and use Docker containers from pipelines.

Report an issue with this plugin

This plugin is up for adoption! We are looking for new maintainers. Visit our <u>Adopt a Plugin</u> initiative for more information.

On ubuntu server install docker

sudo apt install apt-transport-https ca-certificates curl softwareproperties-common

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg

echo "deb [arch=\$(dpkg --print-architecture) signedby=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu \$(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null

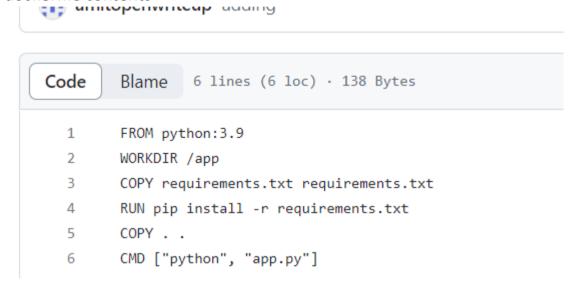
sudo apt install docker-ce

sudo systemctl status docker

Change the permission for Jenkins user on ubuntu server

sudo usermod -a -G docker jenkins sudo chown jenkins:docker /var/run/docker.sock sudo chmod 660 /var/run/docker.sock create a registry docker run -d -p 5000:5000 --restart=always --name registry registry:2

dockerfile contents



Jenkins file

```
pipeline {
1
          agent any
3
          stages {
              stage('Checkout Git repository') {
                       git branch: 'master', url: ' https://github.com/amitopenwriteup/cicd.git'
              stage('Build Docker image') {
10
                  steps {
11
                      script {
12
                           def dockerfile = 'dockerfile'
                          def registry = 'localhost:5000'
13
14
                          def imageName = 'myimage'
                           def imageTag = 'latest'
15
16
                           \tt def \ dockerImage = docker.build("\$\{registry\}/\$\{imageName\}:\$\{imageTag\}", "-f \ \$\{dockerfile\} \ .")
17
                           dockerImage.push()
18
19
                   }
              }
20
```

Create a pipeline

And select option "pipeline with scm"

Provide this git link https://github.com/amitopenwriteup/cicd.git

Jenkins file name : jenkinsfile

