Integrate git with jenkins

1. Launch Instance ec2-ubuntu -user data to install jenkins–

**#!/bin/bash**

**sudo apt update -y**

**sudo apt install openjdk-11-jdk -y**

**curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo tee \**

**/usr/share/keyrings/jenkins-keyring.asc > /dev/null**

**echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \**

**https://pkg.jenkins.io/debian-stable binary/ | sudo tee \**

**/etc/apt/sources.list.d/jenkins.list > /dev/null**

**sudo apt-get update**

**sudo apt-get install jenkins -y**

**sudo apt-get install docker.io**

**sudo apt-get install git**

1. Generate personal access token[github]- ghp\_cF3I4UaB8BuFBvD7PcoO5iTjXwepZ61nKSmL

Docker hub token

dckr\_pat\_JRsI8WMFLzO87FwY37TXI1t\_CmY

1. Install git plugin in jenkins - git plugin,git client plugin, git server plugin, github api plugin, github integration plugin
2. Install docker in jenkins - docker api plugin, docker pipeline, docker plugin, docker build step
3. Ec2 - mv node-todo-cicd/\* my-to-do-cicd/
4. nano ~/.bashrc
5. export PATH=/usr/bin:$PATH
6. source ~/.bashrc
7. sudo visudo
8. jenkins ALL=(ALL) NOPASSWD: ALL
9. In jenkins - manage jenkins → configure system →github →add github server →credentials→kind→secrect text
10. Enter github token
11. Save
12. Create new item(job)
13. Freestyle
14. Configure → Source Code Management →git

Build step

Execute shell:

sudo docker stop mytestcontainer

sudo docker rm mytestcontainer

sudo docker build -t mytestimage .

sudo docker run --name mytestcontainer -d -p 5000:8000 mytestimage