01) What is Jenkins used for?

Jenkins is an open-source automation server that is widely used for continuous integration (CI) and continuous delivery (CD) of software projects. It provides a platform for automating various stages of the software development lifecycle, including building, testing, and deploying applications
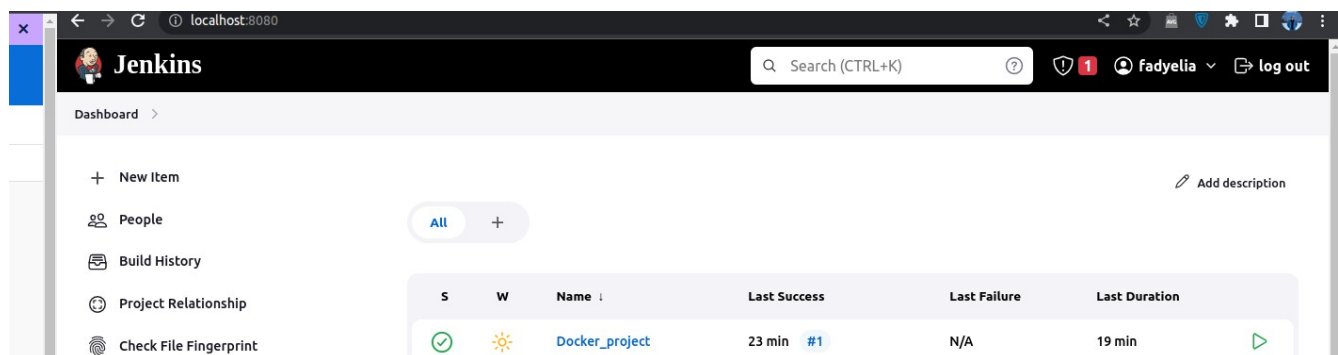
2) Install jenkins with docker image.

```
fady@fady-Elia:~$ docker run -p 8080:8080 -p 50000:50000 -d -v jenkins_home:/var/jenkins_home jenkins/jenkins:lts
Unable to find image 'jenkins/jenkins:lts' locally
lts: Pulling from jenkins/jenkins
bd73737482dd: Pull complete
747b9186aa97: Pull complete
77e4b3fa9f98: Pull complete
4185da018337: Pull complete
fbfe8a536a91: Pull complete
c28d8031aee7: Pull complete
d90093f5fc84: Pull complete
b7bf9221df23: Pull complete
22a3392c99b4: Pull complete
bbe8cad20a08: Pull complete
c81331c127c6: Pull complete
c125b4d0161b: Pull complete
da080ad7c1d0: Pull complete
Digest: sha256:90f7f78a7e114516216b6c0a06e00c597d6490597caec9d7bd7a95ce5c7dada0
Status: Downloaded newer image for jenkins/jenkins:lts
503f2b44fed51115be31eccc2149d55bca321ea4ceef6f04766027cb128457d3
fady@fady-Elia:~$
```

3) what is plugins in jenkins ?

plugins are additional software components that extend the functionality of the Jenkins automation server. Plugins enable users to customize and enhance Jenkins according to their specific needs and integrate it with various tools and technologies used in software development.

4) Create free style project and link it to private git repo containing any dockerfile then biuld an image from this dockerfile and push it to private docker repo

fadyelia / jenkins

Description

jenkins_image ✏️

🕐 Last pushed: 4 minutes ago

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
🟢 1	🐧	Image	---	4 minutes ago

See all   Go to Advanced Image Management

Automated Builds

Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. Read more about automated builds 🗗.

Upgrade

Global credentials (unrestricted)

+ **Add Credentials**

Credentials that should be available irrespective of domain specification to requirements matching.

	ID	Name	Kind	Description	
📱	docker_hub-repo	fadyelia/******	Username with password		🔧
📱	github-repo	fady-elia/******	Username with password		🔧

Icon: S   M   L