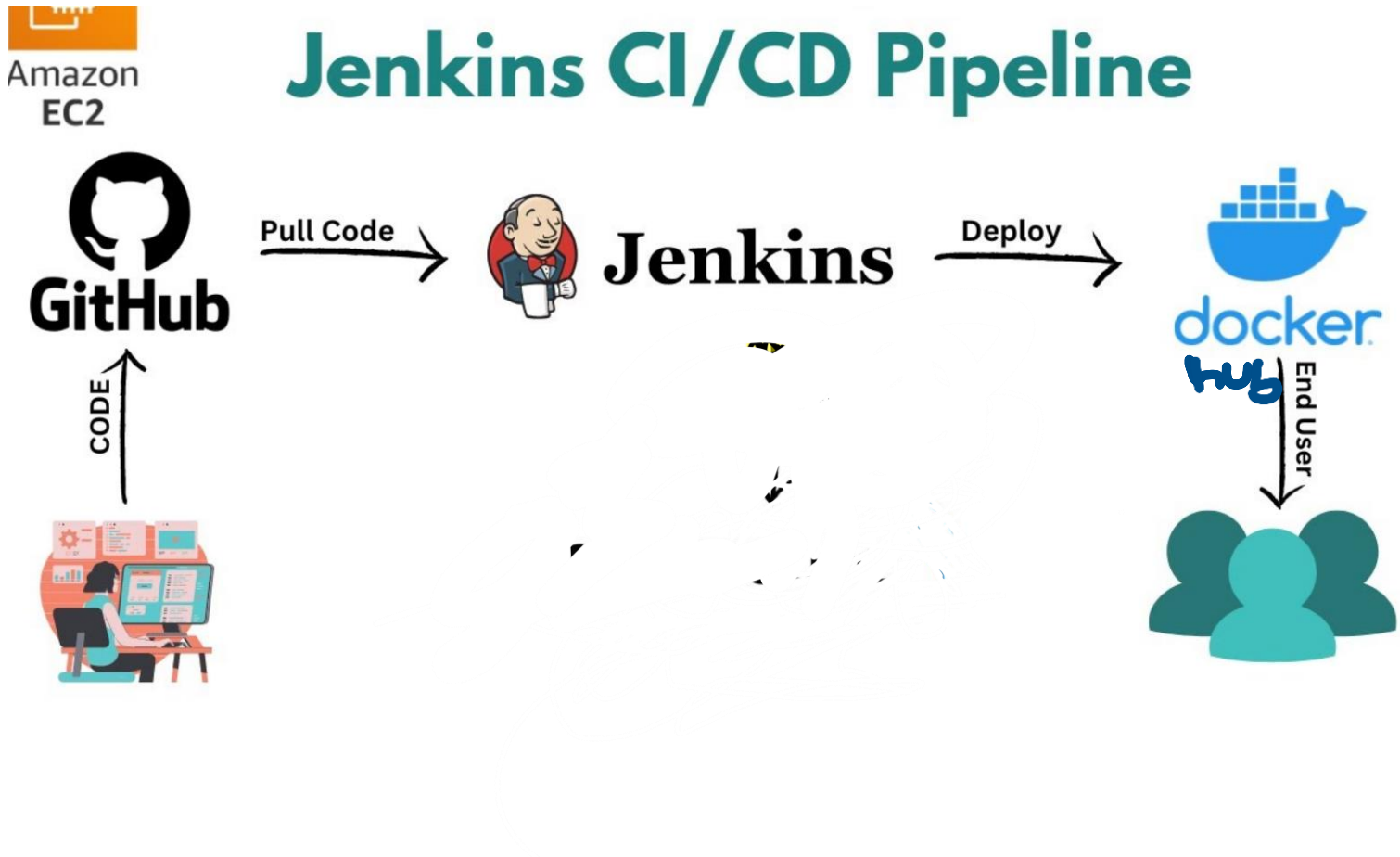# Build Jenkins Pipeline to automatically build & publish Apache images Dockerhub. The Dockerfile would be sourced from GitHub

Engineer: Dzidzogbe Logotse

Diagram

Screenshot showing Jenkins installed

```
ubuntu@ip-172-31-23-172:~$ jenkins --version
2.462.1
ubuntu@ip-172-31-23-172:~$
```

Screenshot of my Jenkins pipeline console result"

```
Started by user Dzidzogbe amevi Logotse
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/Jenkins-Docker-Pipeline
The recommended git tool is: NONE
using credential Githubcreds
 > git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/Jenkins-Docker-Pipeline/.git # timeout=10
Fetching changes from the remote Git repository
 > git config remote.origin.url https://github.com/christ2222/Jenkins-Docker-Project.git # timeout=10
Fetching upstream changes from https://github.com/christ2222/Jenkins-Docker-Project.git
 > git --version # timeout=10
 > git --version # 'git version 2.43.0'
using GIT_ASKPASS to set credentials this is my Github credential
 > git fetch --tags --force --progress -- https://github.com/christ2222/Jenkins-Docker-Project.git +refs/
 > git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 0567c7d5e3b7fdd116010cb1686796973f85eebb (refs/remotes/origin/main)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 0567c7d5e3b7fdd116010cb1686796973f85eebb # timeout=10
Commit message: "2nd commit"
First time build. Skipping changelog.
[Jenkins-Docker-Pipeline] $ docker build -t christ2222/jenkins-apache-image:v1 --pull=true /var/lib/jenki
#0 building with "default" instance using docker driver

#1 [internal] load build definition from Dockerfile
#1 transferring dockerfile: 636B done
#1 DONE 0.0s

#2 [internal] load metadata for docker.io/library/ubuntu:22.04
#2 ...

#3 [auth] library/ubuntu:pull token for registry-1.docker.io
#3 DONE 0.0s

#2 [internal] load metadata for docker.io/library/ubuntu:22.04
#2 DONE 0.8s
```

```
#4 [internal] load .dockerignore
#4 transferring context: 2B done
#4 DONE 0.0s


#5 [1/4] FROM docker.io/library/ubuntu:22.04@sha256:adbb90115a21969d2fe6fa7f9af4253e16d45f8d4c1e93018261(
#5 DONE 0.0s


#6 [internal] load build context
#6 transferring context: 32B done
#6 DONE 0.0s


#7 [2/4] RUN apt-get update && apt-get install -y apache2
#7 CACHED


#8 [3/4] COPY index.html /var/www/html/
#8 CACHED


#9 [4/4] RUN a2enmod rewrite
#9 CACHED


#10 exporting to image
#10 exporting layers done
#10 writing image sha256:1dcdf622223f7785ad305facdc3573628bfbfbb787e674451848e19e3dd509ce done
#10 naming to docker.io/christ2222/jenkins-apache-image:v1 done
#10 DONE 0.0s
[Jenkins-Docker-Pipeline] $ docker build -t christ2222/jenkins-apache-image:latest --pull=true /var/lib/
#0 building with "default" instance using docker driver


#1 [internal] load build definition from Dockerfile
#1 transferring dockerfile: 636B done
#1 DONE 0.0s


#2 [internal] load metadata for docker.io/library/ubuntu:22.04
#2 DONE 0.1s


#3 [internal] load .dockerignore
#3 transferring context: 2B done
#3 DONE 0.0s
```

```
#4 [1/4] FROM docker.io/library/ubuntu:22.04@sha256:adbb90115a21969d2fe6fa7f9af4253e16d45f8d4c1e930182610c4731962658
#4 DONE 0.0s

#5 [internal] load build context
#5 transferring context: 32B done
#5 DONE 0.0s

#6 [2/4] RUN apt-get update && apt-get install -y apache2
#6 CACHED

#7 [3/4] COPY index.html /var/www/html/
#7 CACHED

#8 [4/4] RUN a2enmod rewrite
#8 CACHED

#9 exporting to image
#9 exporting layers done
#9 writing image sha256:1dcdf622223f7785ad305facdc3573628bfbfbb787e674451848e19e3dd509ce done
#9 naming to docker.io/christ2222/jenkins-apache-image:latest done
#9 DONE 0.0s
[Jenkins-Docker-Pipeline] $ docker push christ2222/jenkins-apache-image:v1
The push refers to repository [docker.io/christ2222/jenkins-apache-image]
383a1cab4f35: Preparing
9b50e7cf13e6: Preparing
a1a3e2c47969: Preparing
1b9b7346fee7: Preparing
1b9b7346fee7: Mounted from library/ubuntu
383a1cab4f35: Pushed
9b50e7cf13e6: Pushed
a1a3e2c47969: Pushed
v1: digest: sha256:bc79a6ed21571bcc09ac3ecef0898725029177032aa6e97a09857e067e297f4e size: 1156
[Jenkins-Docker-Pipeline] $ docker push christ2222/jenkins-apache-image:latest
The push refers to repository [docker.io/christ2222/jenkins-apache-image]
383a1cab4f35: Preparing
9b50e7cf13e6: Preparing
a1a3e2c47969: Preparing
1b9b7346fee7: Preparing
9b50e7cf13e6: Layer already exists
1b9b7346fee7: Layer already exists
a1a3e2c47969: Layer already exists
383a1cab4f35: Layer already exists
latest: digest: sha256:bc79a6ed21571bcc09ac3ecef0898725029177032aa6e97a09857e067e297f4e size: 1156
Finished: SUCCESS
```

Screenshot of the Docher image published in my Dockerhub

christ2222 / Repositories / jenkins-apache-image / General   Using 0 of 1 private repositories.

General   Tags   Builds   Collaborators   Webhooks   Settings

christ2222/jenkins-apache-image ⊘

Updated 5 minutes ago

webserver ✎

`INTEGRATION & DELIVERY` ✎

Docker commands

To push a new tag to this repository:

```
docker push christ2222/jenkins-apache-image:tagname
```

Public View

Tags

This repository contains 2 tag(s).

Tag	OS	Type	Pulled	Pushed
● latest	🐧	Image	5 minutes ago	5 minutes ago
● v1	🐧	Image	5 minutes ago	5 minutes ago

See all

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