DevOps Model
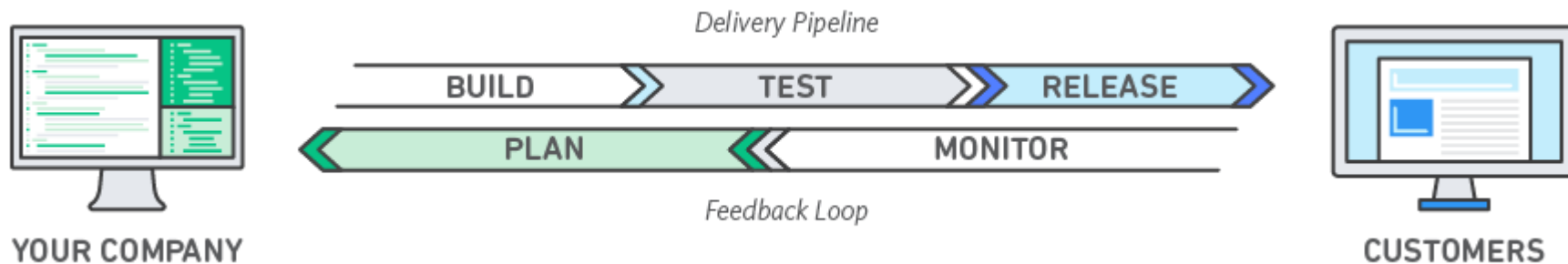
Mohammed A. Shehab
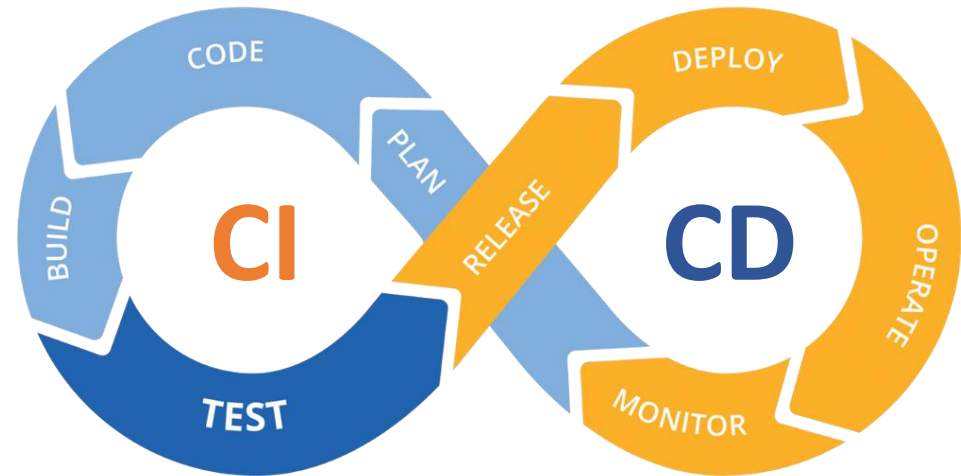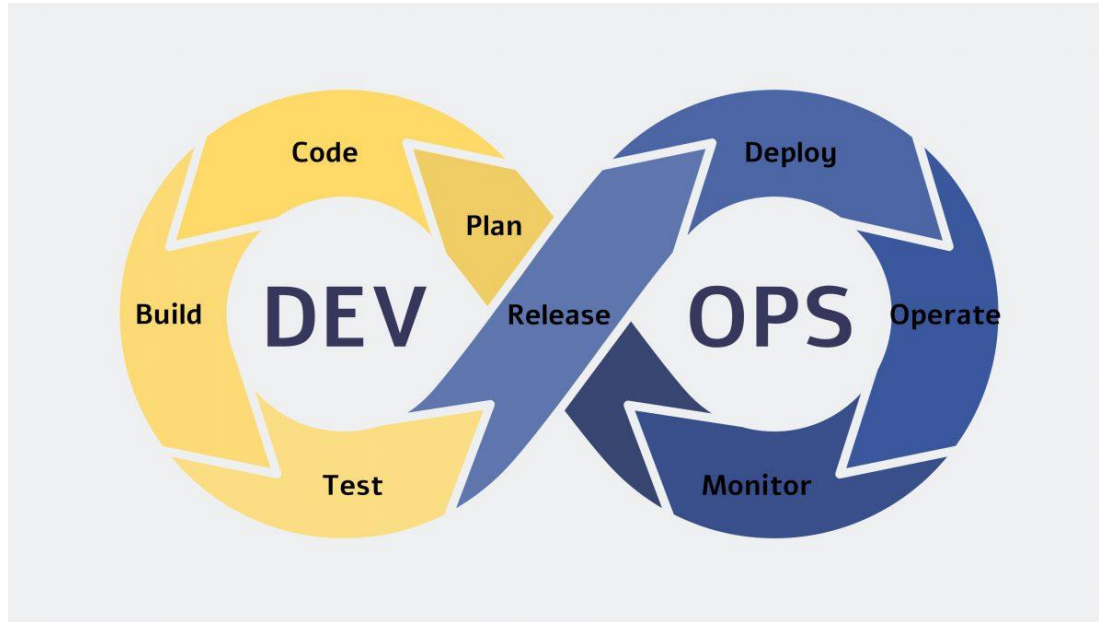
What is DevOps?

- DevOps: is a set of practices that combines software development (Dev) and IT operations (Ops).

- This speed enables organizations to better serve their customers and compete more effectively in the market.
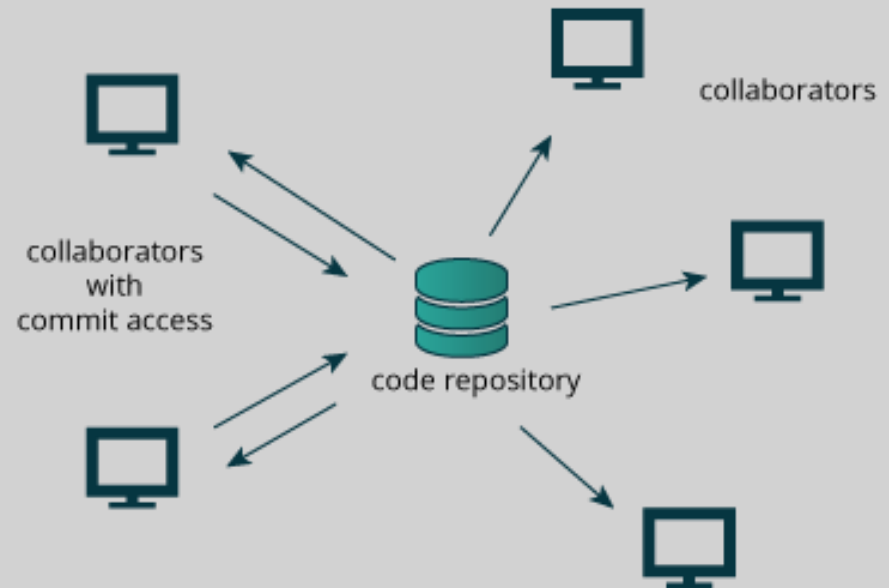
Continuous Integration (CI)

- A CI process is a process in which software is developed by multiple sources and is automatically integrated via an established procedure.
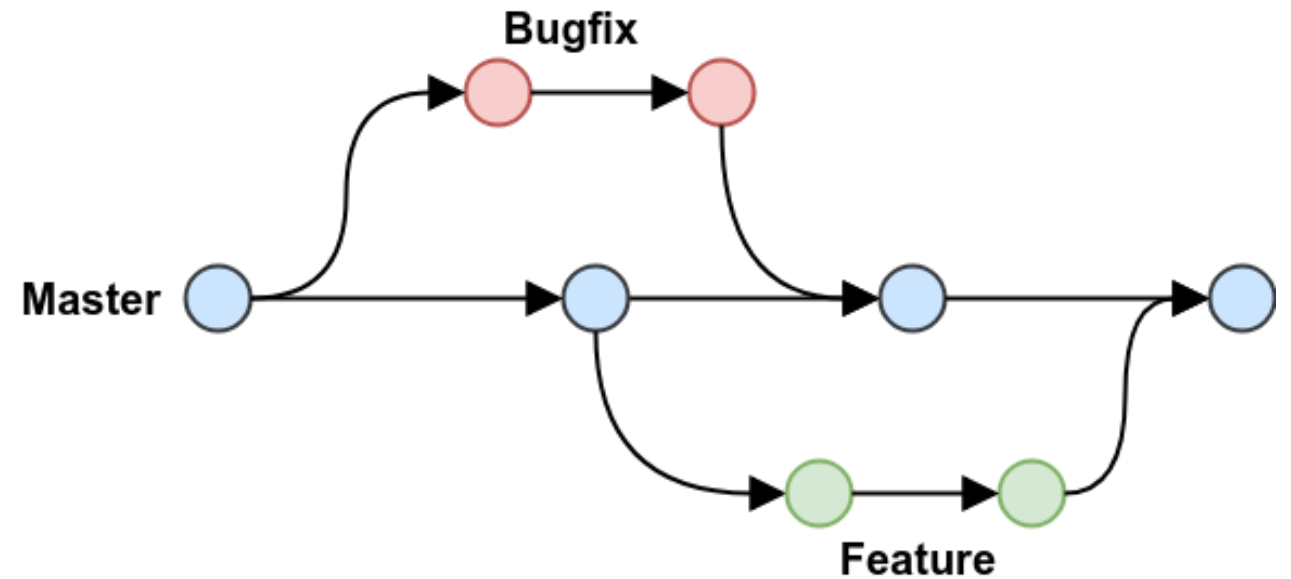
What is Git?

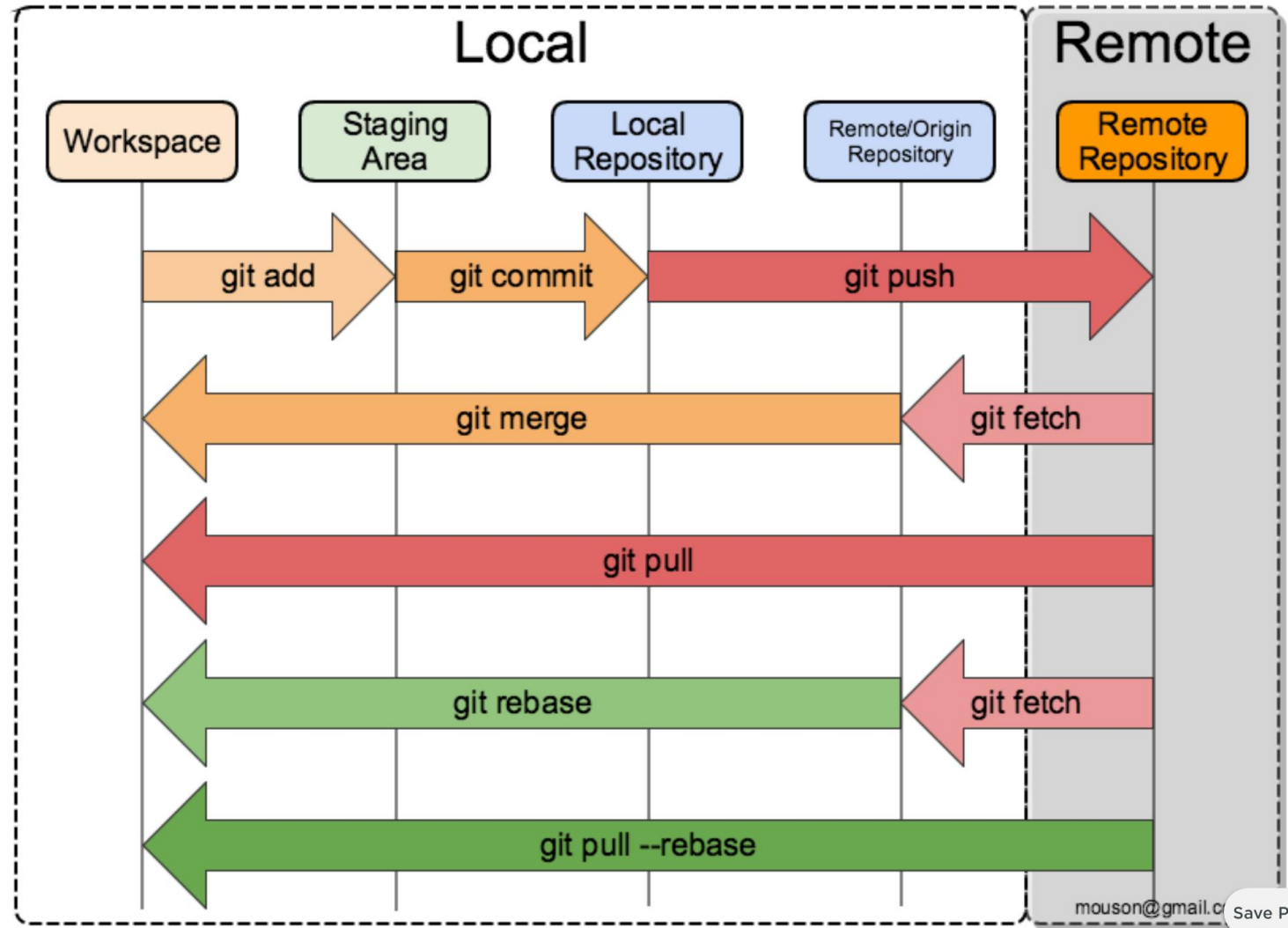- Git is an example of a **DVCS** (Distributed Version Control System).

Git flow

- Each developer works individually in the team without affecting the other's changes.
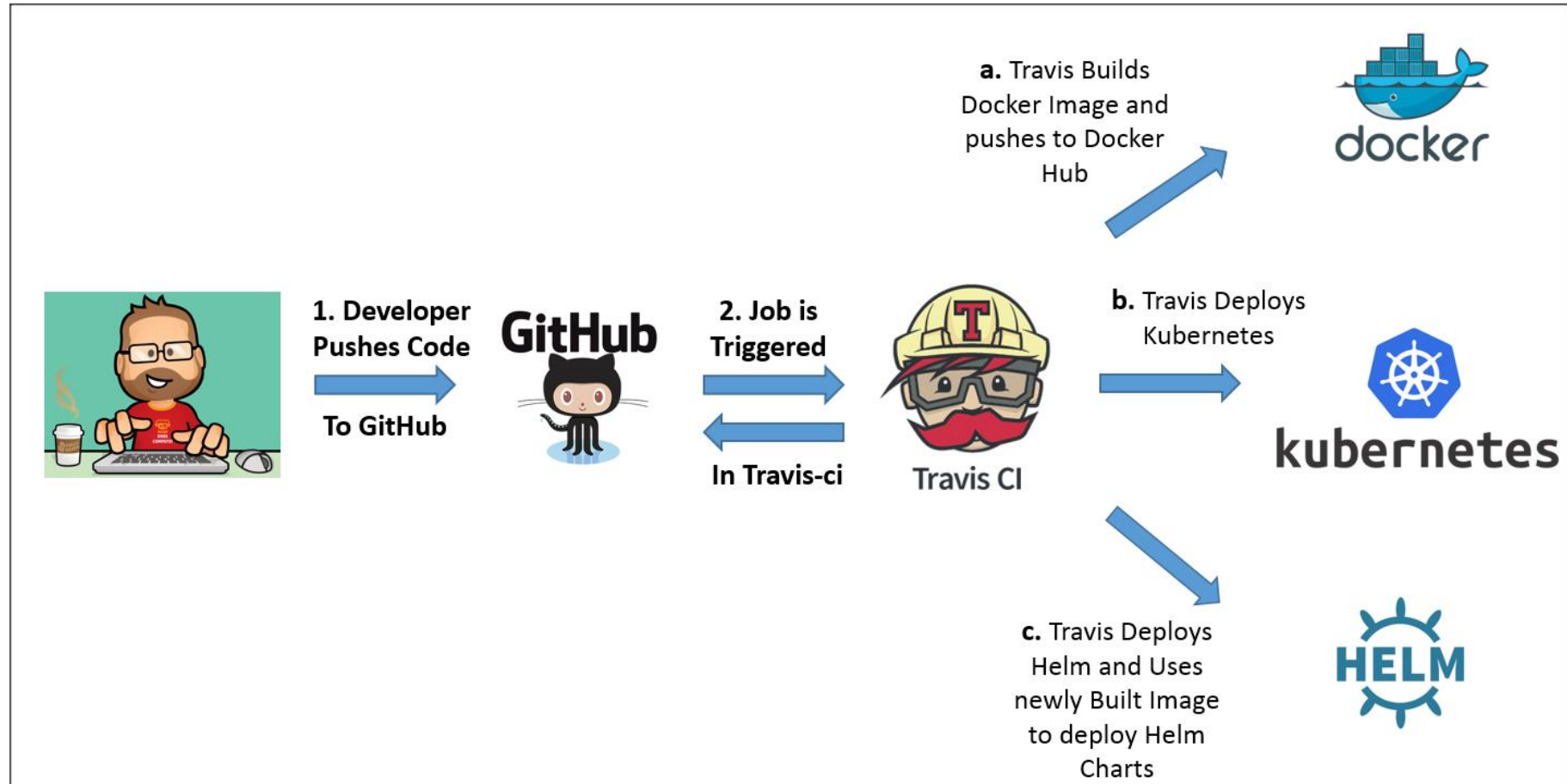
Git stages

Git Providers

Travis ci

a. Travis Builds Docker Image and pushes to Docker Hub

b. Travis Deploys Kubernetes

c. Travis Deploys Helm and Uses newly Built Image to deploy Helm Charts

1. Developer Pushes Code

To GitHub

2. Job is Triggered

In Travis-ci

docker

kubernetes

HELM

Travis CI

Container vs Virtual Machine