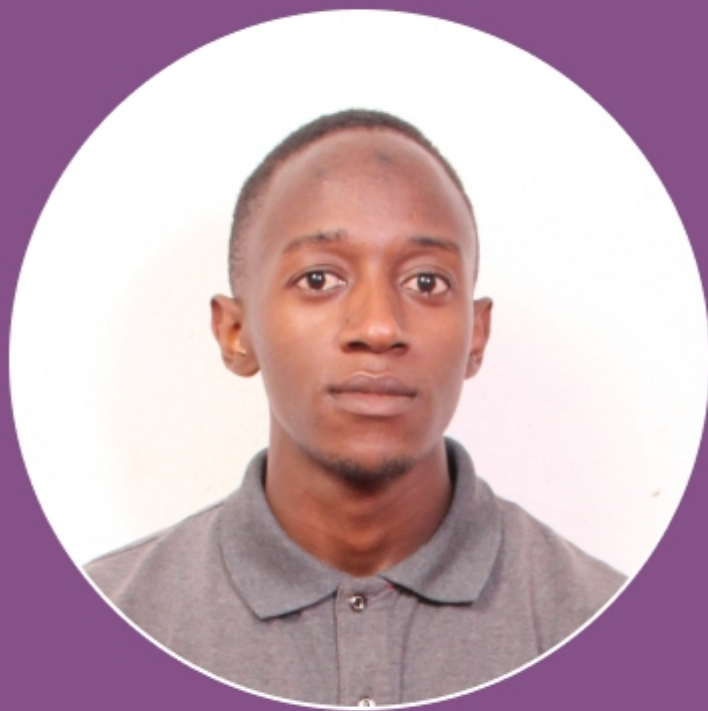


Developer Circle: Kampala

Hi! I'm **Luigi Morel**.
Software Engineer

I'll be discussing about:

"How to ship products using Docker."



4:00PM - 4:50 PM
11th November 2021
<https://facebook.com/groups/devckla>

FACEBOOK     

Agenda

Why Docker?

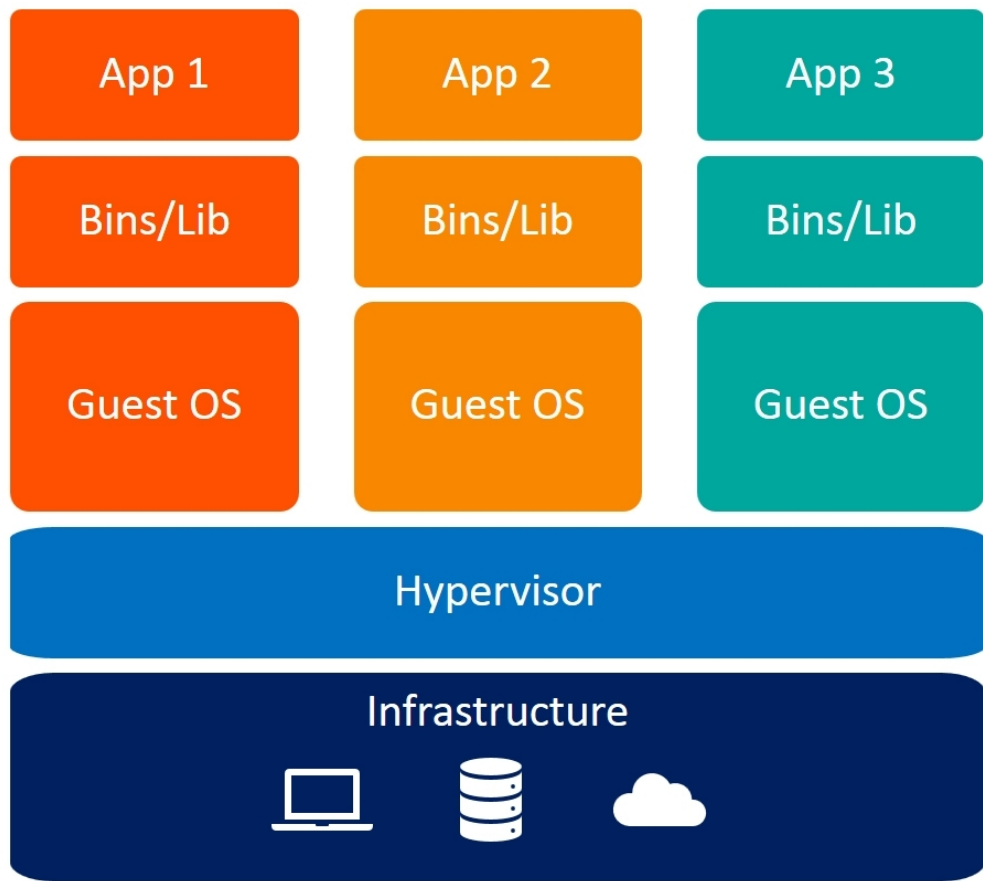
Docker as a platform

Docker Installation

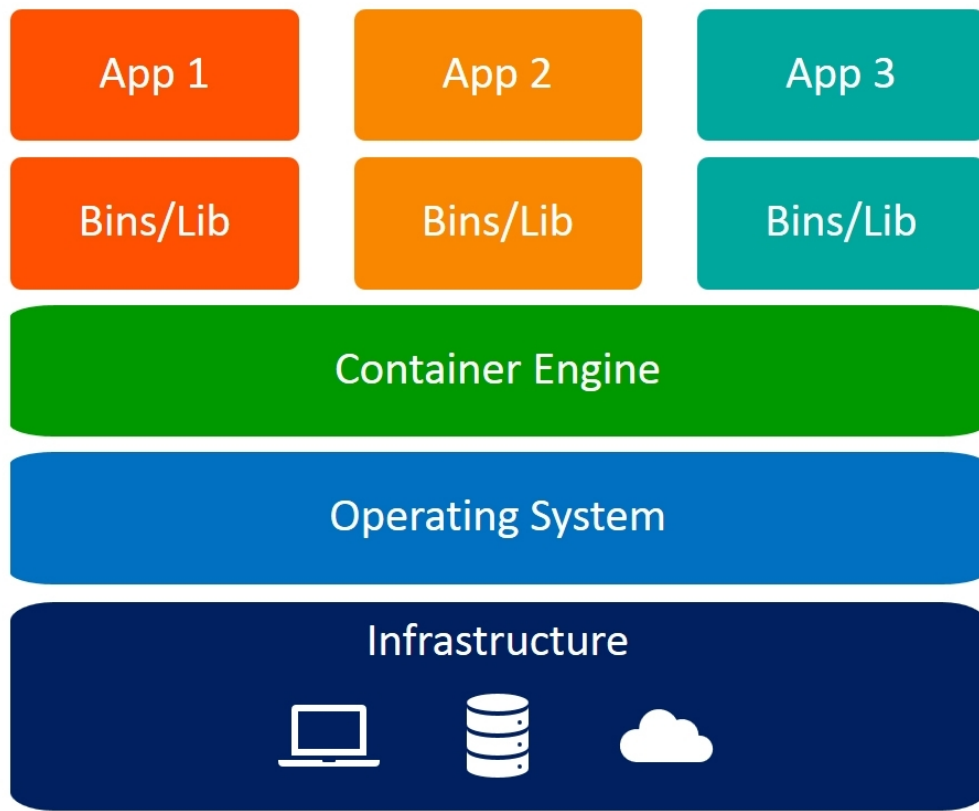
Demo

What is Docker?

- 👉 **A tool for running application in an isolated environment**
- 👉 **The Docker environment is platform independent**
- 👉 **A standard for team collaboration.**

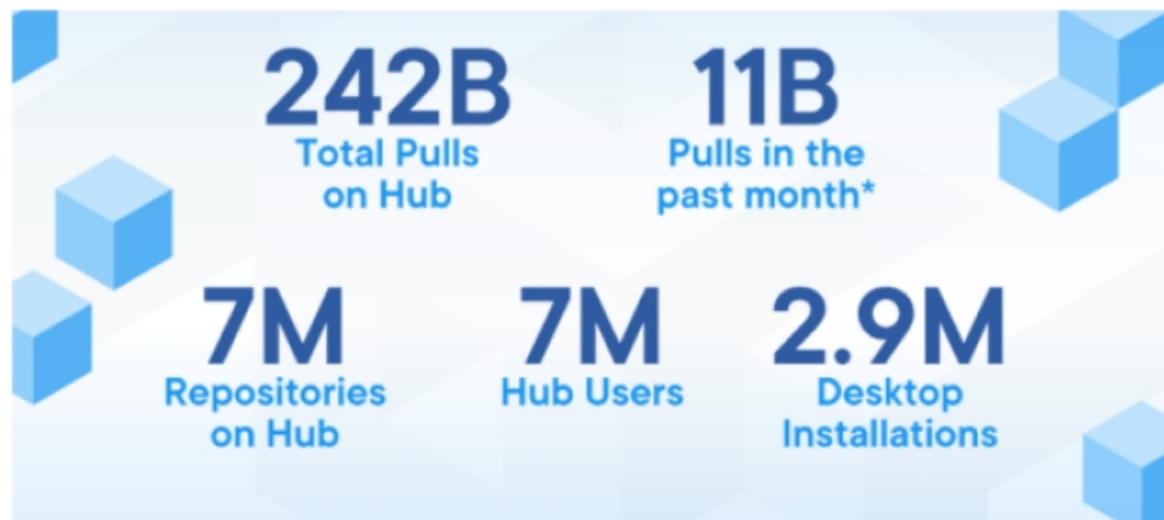


Virtual Machines



Containers

Docker Community



Source: <https://www.docker.com/blog/docker-index-dramatic-growth-in-docker-usage-affirms-the-continued-rising-power-of-developers/>

Why Docker?

- **Isolated**
- **Lightweight**
- **Cost effectiveness with efficiency.**
- **Collaboration**
- **Flexibility**
- **Time saving**

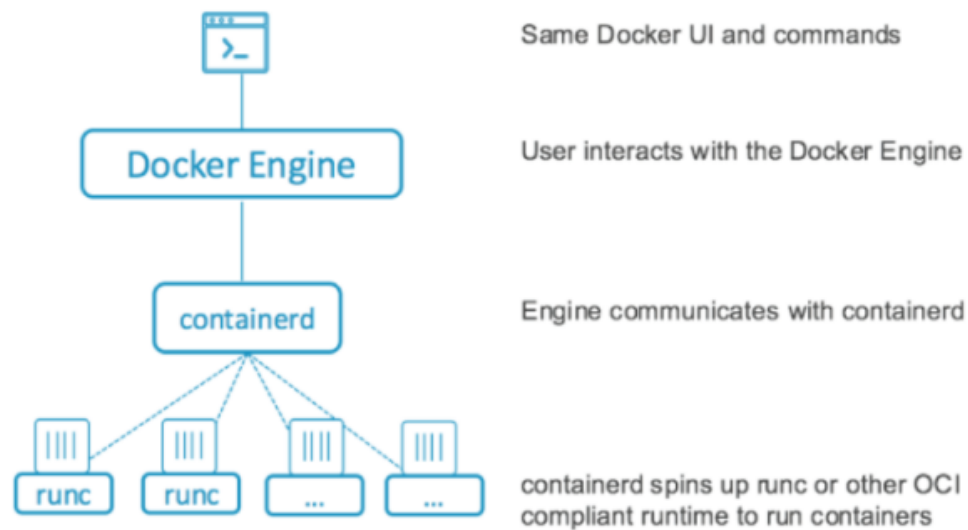
Components of the Docker Platform

Docker Engine

+

Docker Hub + Docker CLI

Docker Engine



Source: <https://dev.to/pratik6217/docker-engine-deep-dive-into-docker-4hig>

Docker CLI

- **docker build** # Build an image from a Dockerfile
- **docker run** # Run the image
- **docker images** # List all images on the machine
- **docker ps** # List running and stopped containers
- **docker stop** # Stop a running instance of an image
- **docker rm** # Remove an instance of an image
- **docker rmi** # Remove an images
- **docker -f rm** # Force remove an instance of an image

Docker Hub

- **Share images with team**
- **Storage for images (private or public)**
- **Webhooks for integration with other services**
- **Manage access to repositories with code for an image**
- **User verified images from other official vendors**
- **Re-use images by other people**

Docker Installation

My Case:

Using Windows 10 Build 1379

Docker Installation

Install Docker

Follow these steps to install Docker

1. Download Docker from `**https://docs.docker.com/get-docker/**`
2. Double-click `InstallDocker.msi` to run the installer.
3. Follow the Install Wizard: accept the license, authorize the installer, and proceed with the install.
4. Click Finish to launch Docker.

Docker Workflow

- Find a desired image on Docker Hub
- Pull the image from Docker Hub to local machine
- Run the image as a container
- Stop the container
- Remove an instance of the image
- Force remove the container that is currently running
- Remove an image

Demo