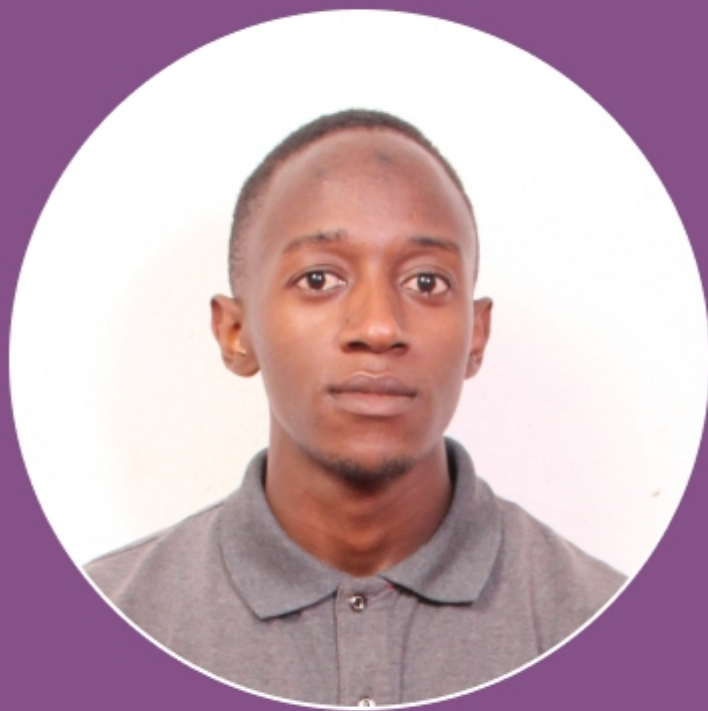


## Developer Circle: Kampala

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?**

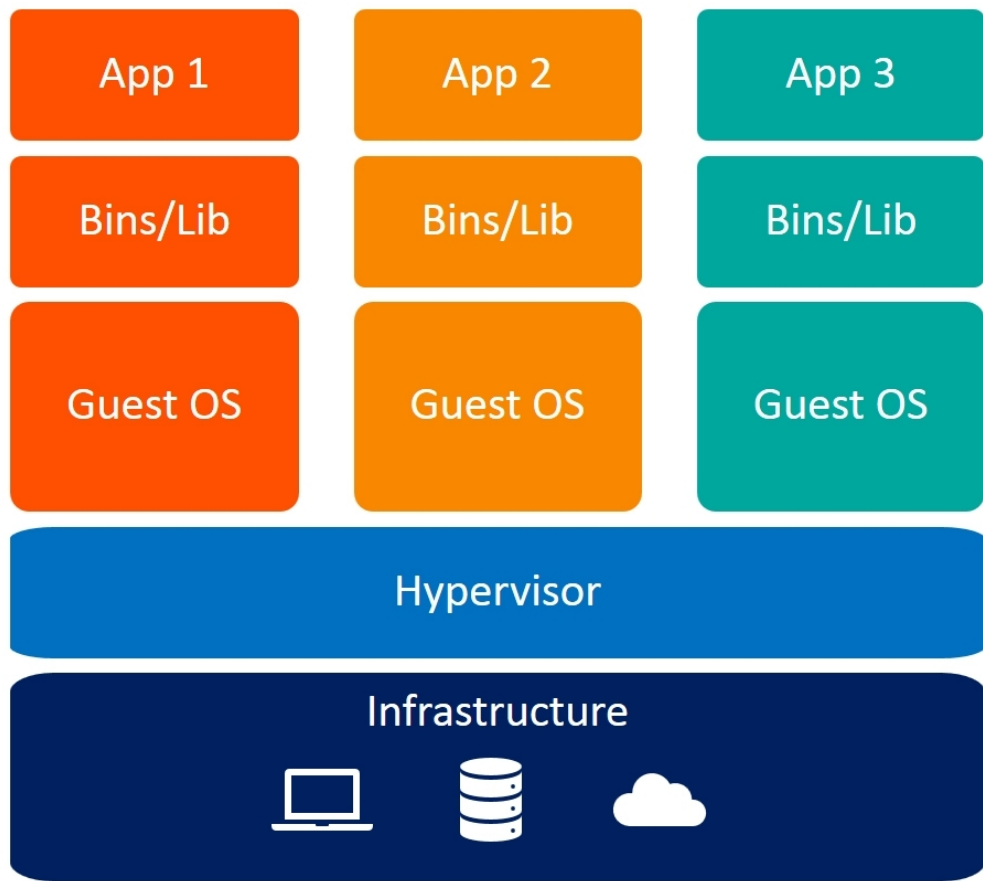
**Docker as a platform**

**Docker Installation**

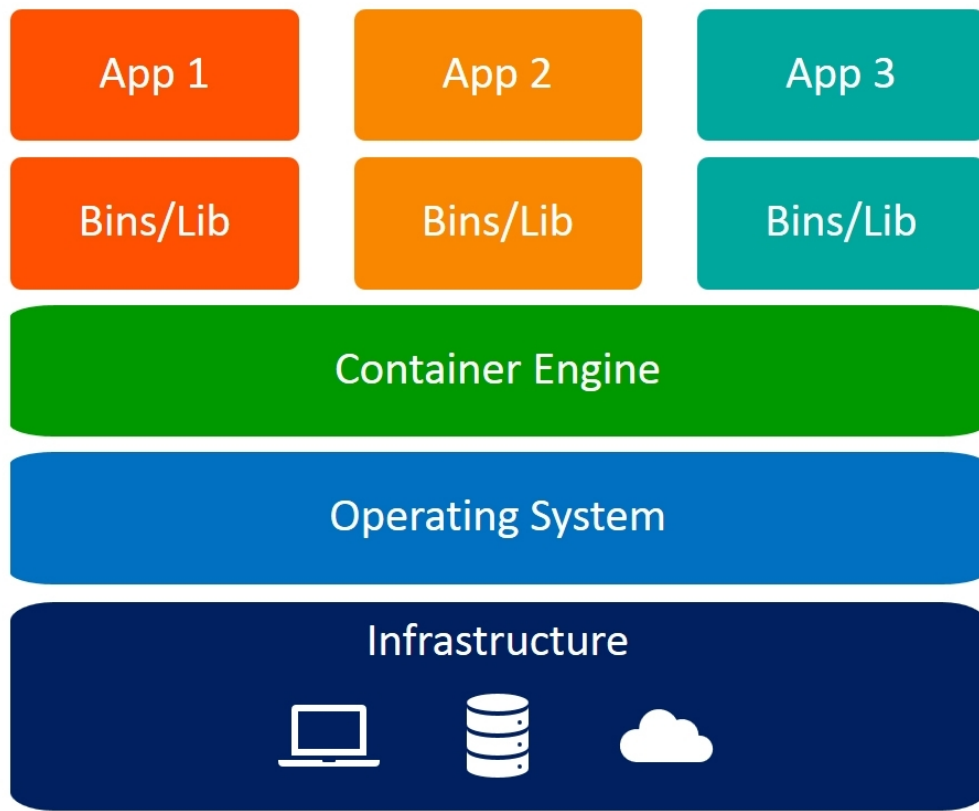
**Demo**

## What is Docker?

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

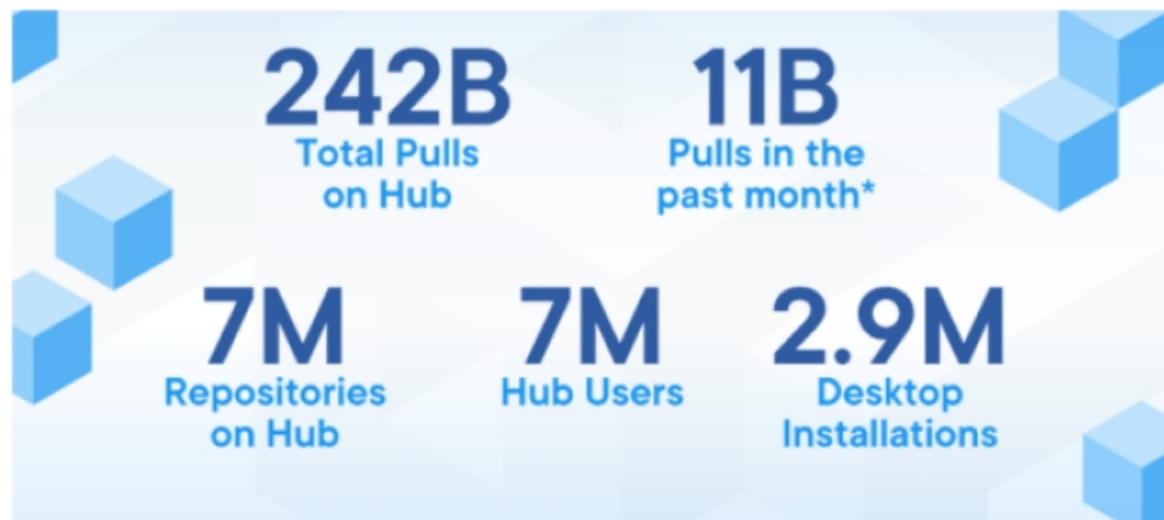


Virtual Machines



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**

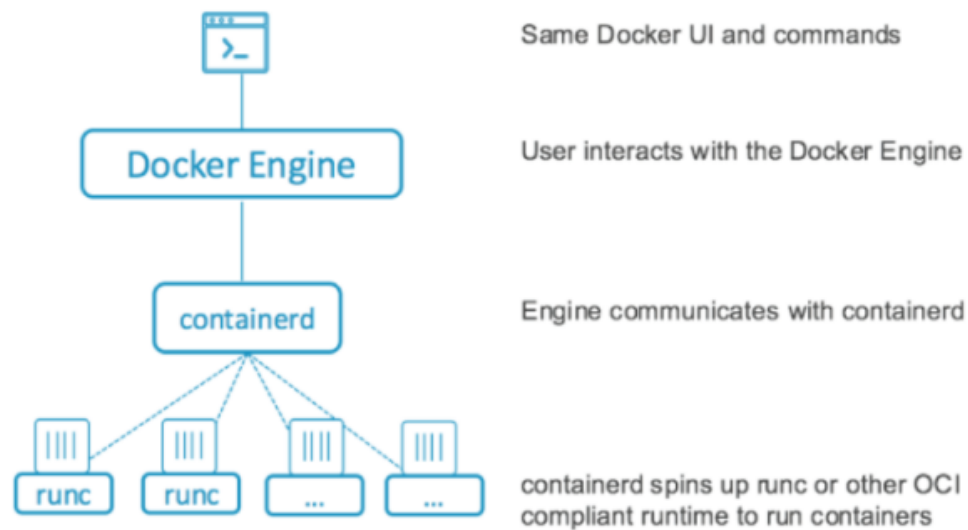
# Components of the Docker Platform

**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

## Structure of a Docker command

```
$ docker run -it --rm ubuntu /bin/bash
```

**Docker  
command**

**Sub  
command**

**Option**

**Arguments**

**Demo**