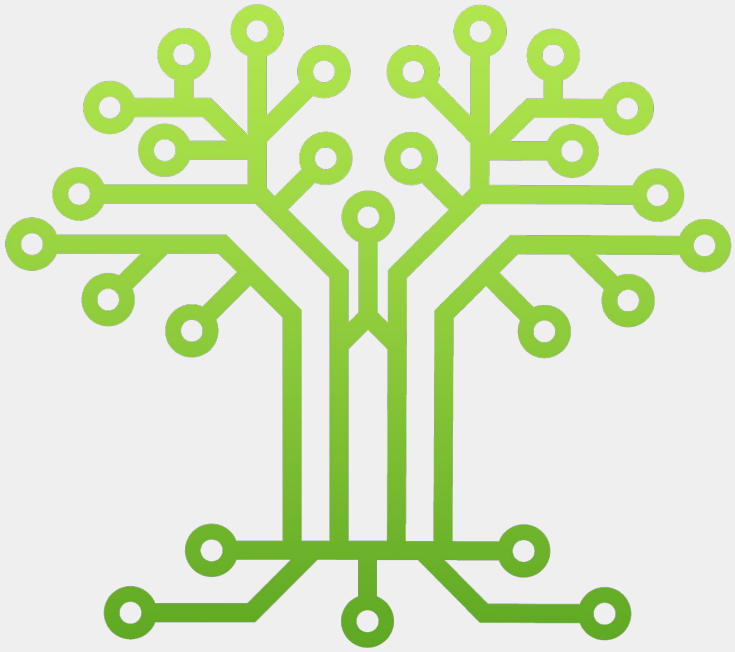
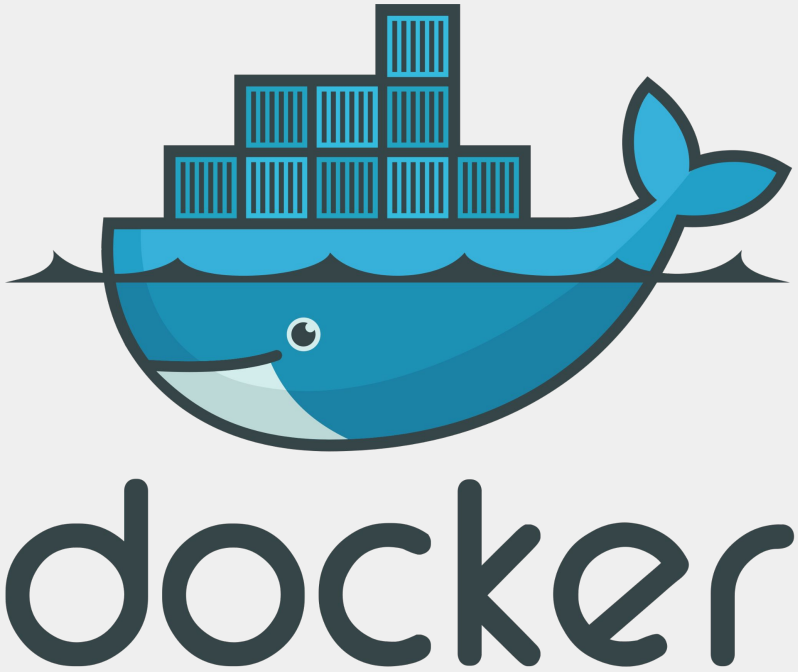
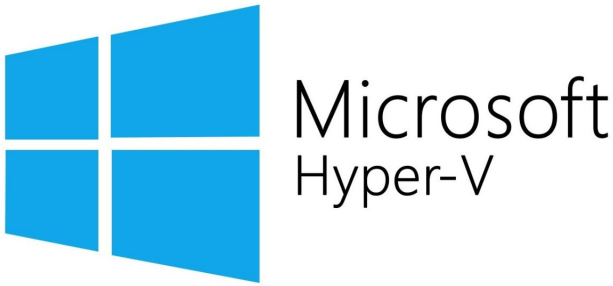


IoTCPP



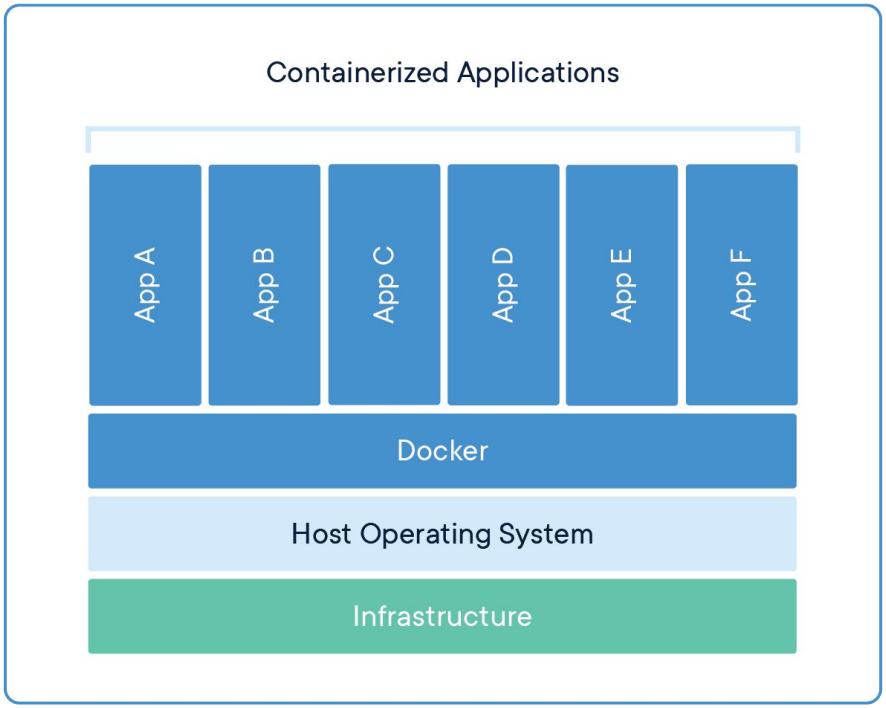
@ahmadrv

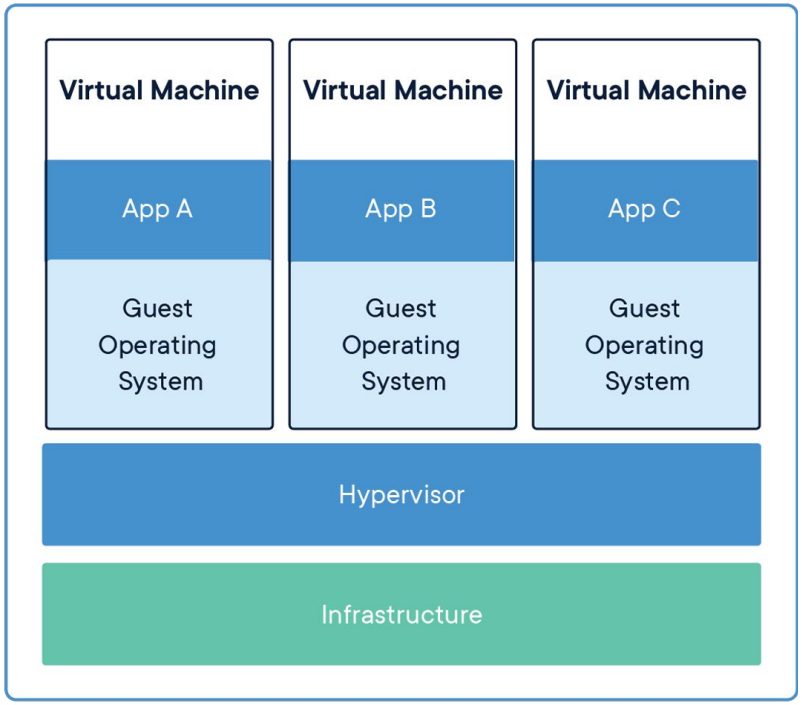
IoTCPP

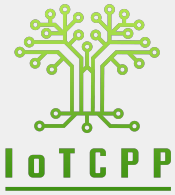


vmware®

by Broadcom

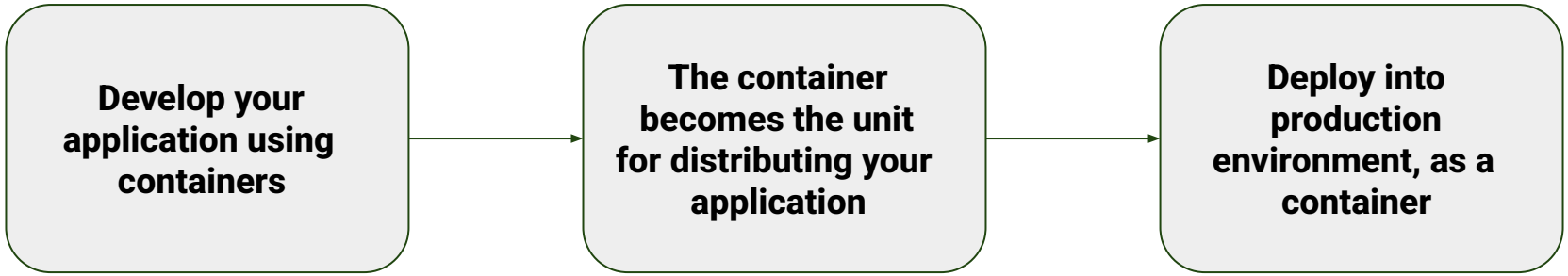






Use containers to Build, Share and Run your applications

Application Lifecycle with Docker Platform



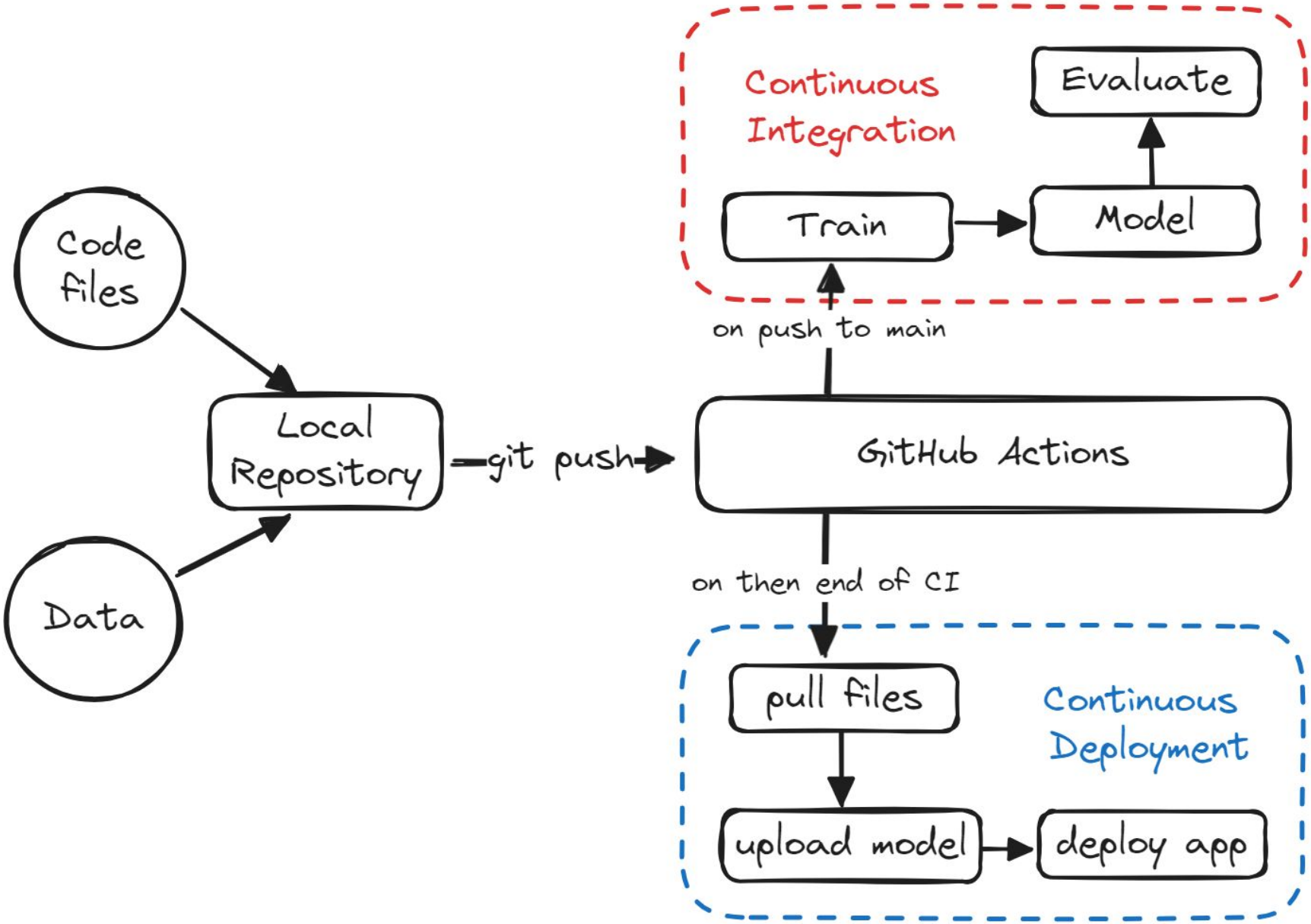
IoTCPP

What can I use Docker for?

Containers are great for continuous integration and continuous delivery (CI/CD) workflows.

Usage Scenario:

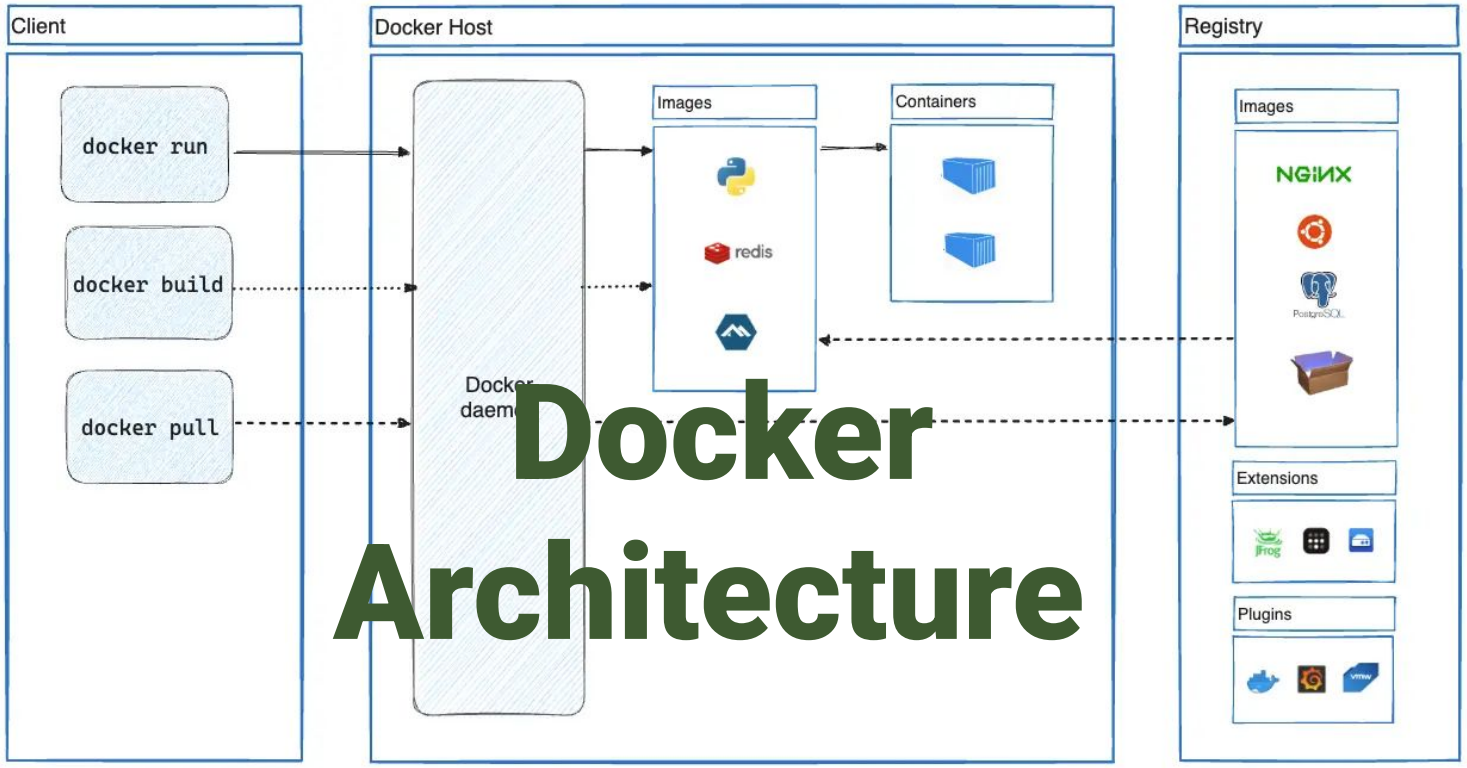
- Developers write code locally and share their work with their colleagues using Docker containers.
- They use Docker to push their applications into a test environment and run automated and manual tests.
- When developers find bugs, they can fix them in the development environment and redeploy them to the test environment for testing and validation.
- When testing is complete, getting the fix to the customer is as simple as pushing the updated image to the production environment.



IoTCPP

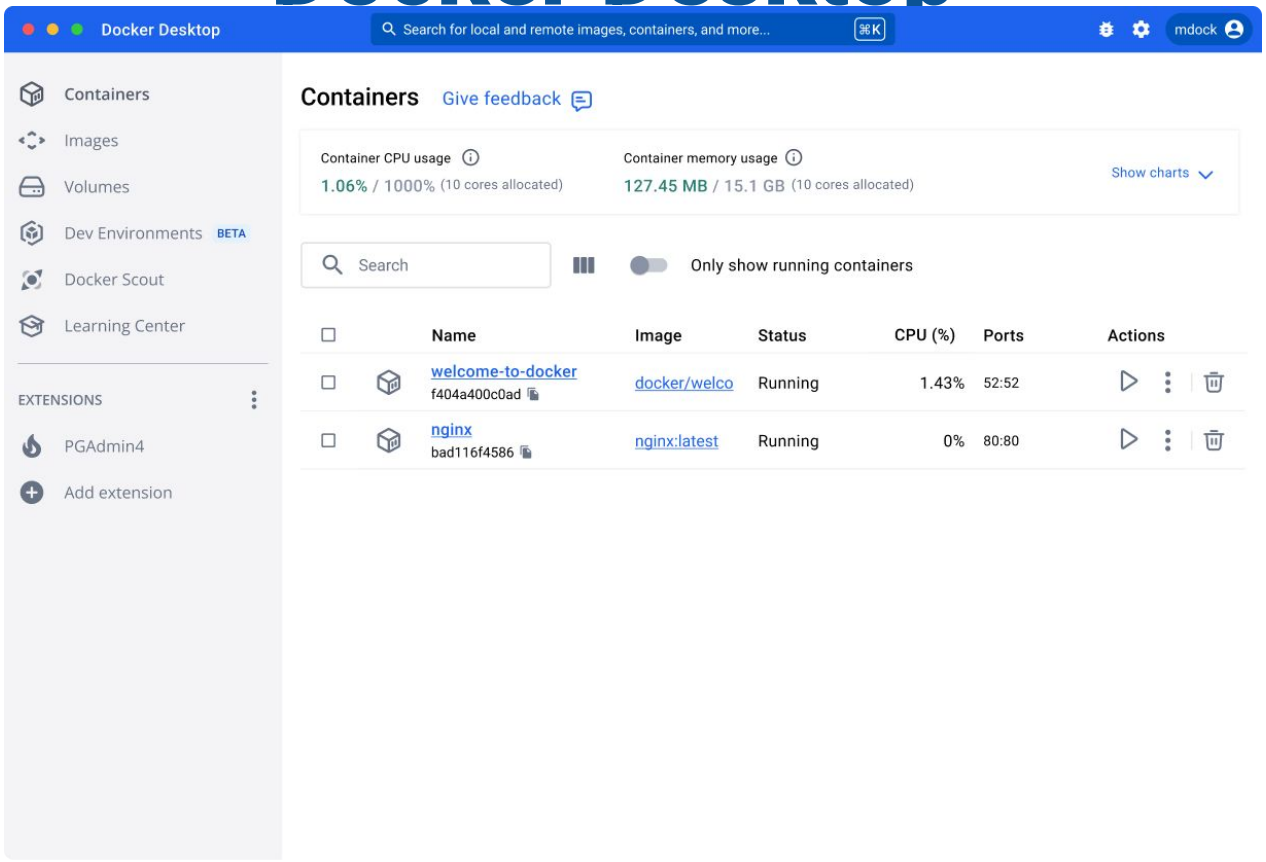
Responsive Deployment and Scaling

Docker's container-based platform allows for highly portable workloads. Docker containers can run on a developer's local laptop, on physical or virtual machines in a data center, on cloud providers, or in a mixture of environments.



Docker Architecture

Docker Desktop



IoTCPP

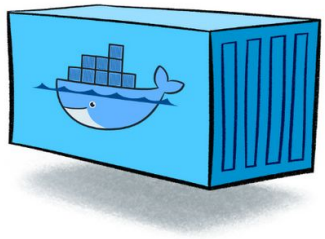
Docker Image

A read-only template with instructions for creating a Docker container

```
FROM ubuntu:22.04

RUN apt update && apt upgrade
-y

RUN apt install -y git
python3-pip curl

WORKDIR /home

RUN git clone
https://github.com/example/ex
ample.git

WORKDIR /home/example

RUN pip install
example_package

CMD [ "python3",
"./example/main.py" ]
```

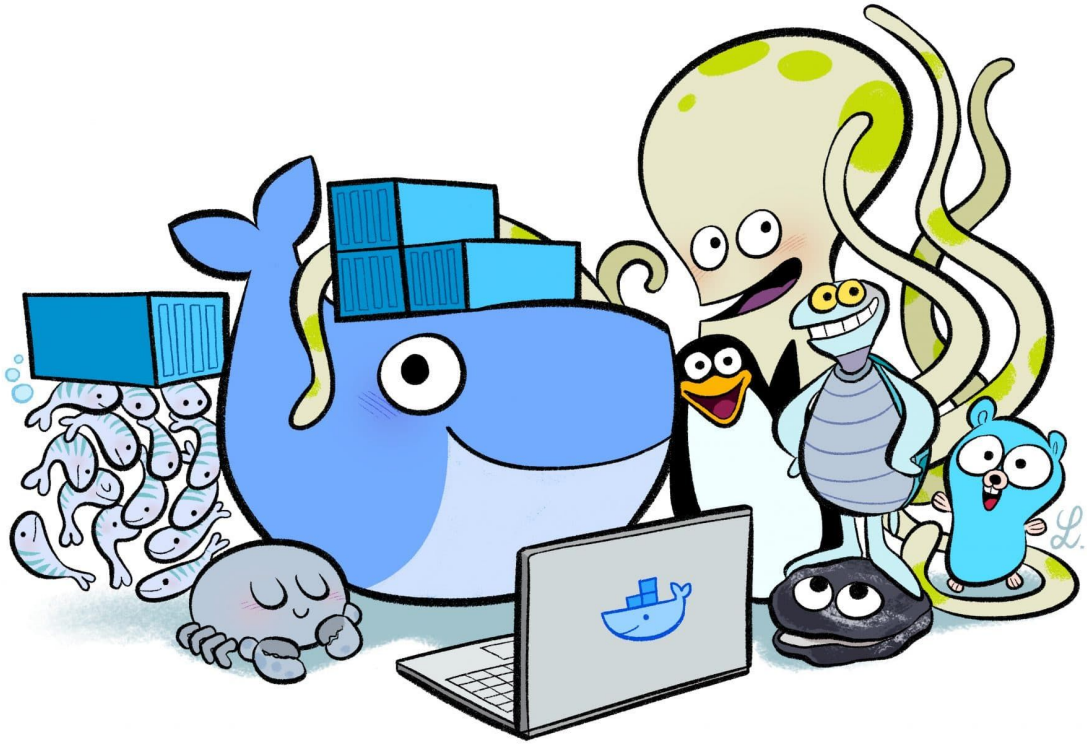
IoTCPP

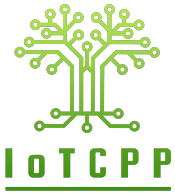
Docker Container



A container is a runnable instance of an image.

Let's get our hands





https://docs.docker.com/

https://dockerme.ir/