
Docker: Basic Hands-On

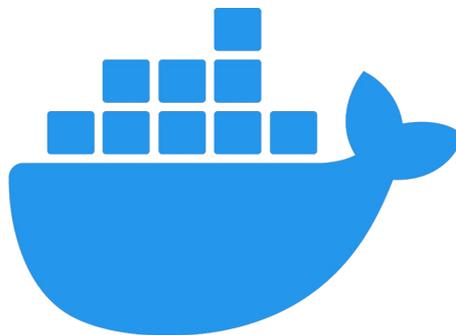


Edith Puclla

@edithpuclla



/edithpuclla





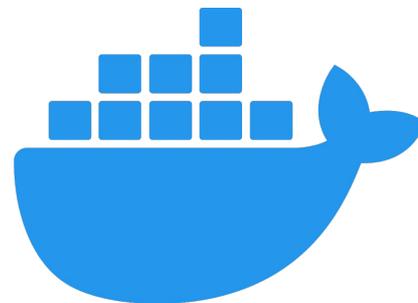
Tech Evangelist at @Percona

DevOps and Infrastructure Developer, Apache Airflow contributor and 42 Silicon Valley Student, Docker Captain.

Love cats and travel!

Agenda

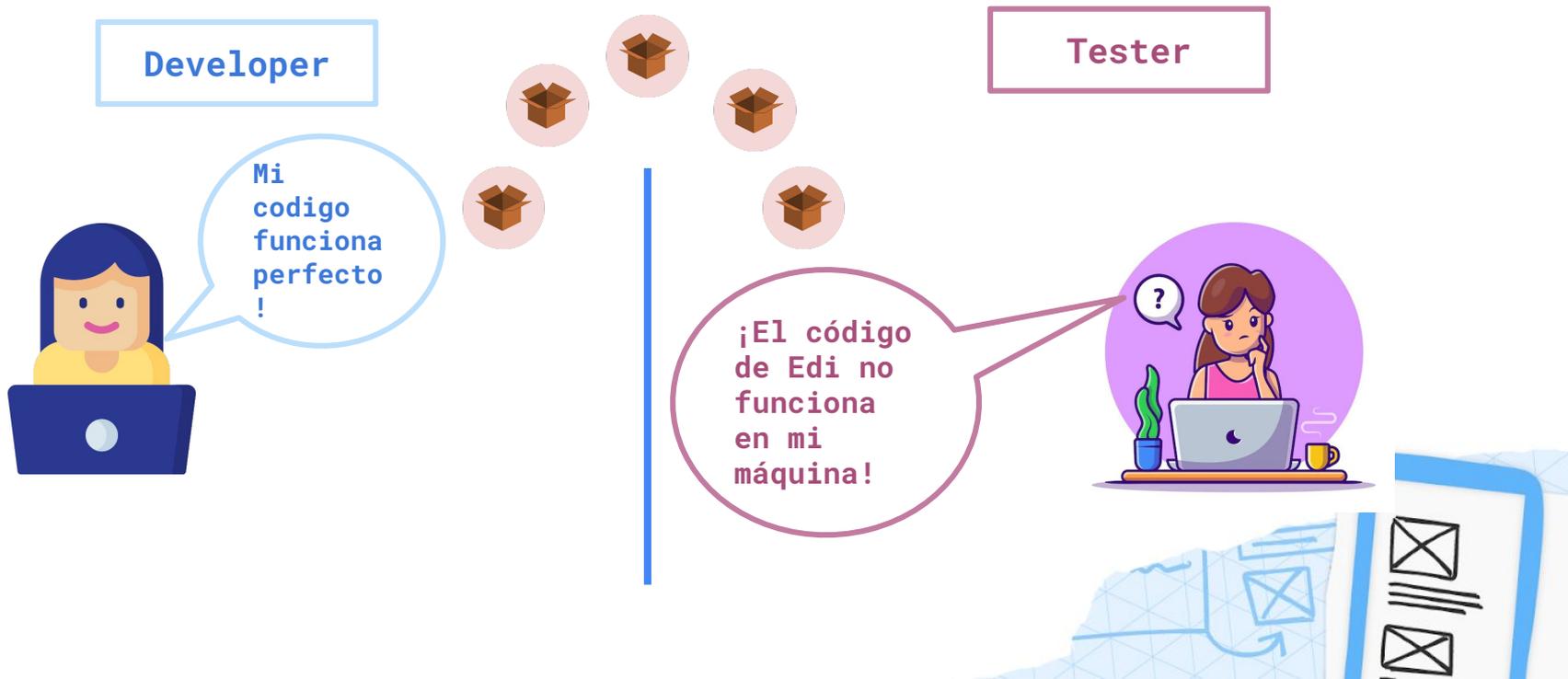
- ¿Qué es Docker?
- Docker: Tipos de installation
- Componentes básicos y arquitectura de Docker
- Demo: comandos básicos
- ¿Qué es lo nuevo en Docker?
- Oportunidades en al comunidad de Docker



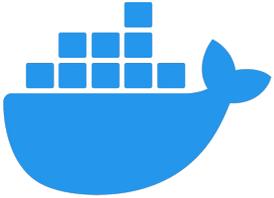


¿Qué es Docker?

Antes de Docker



¡Docker es la mejor solución para este problema!





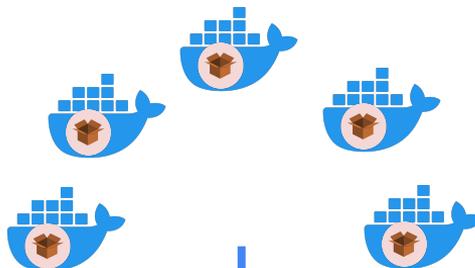
¿Qué es Docker?

Después de Docker

Developer



Mi código funciona perfecto!

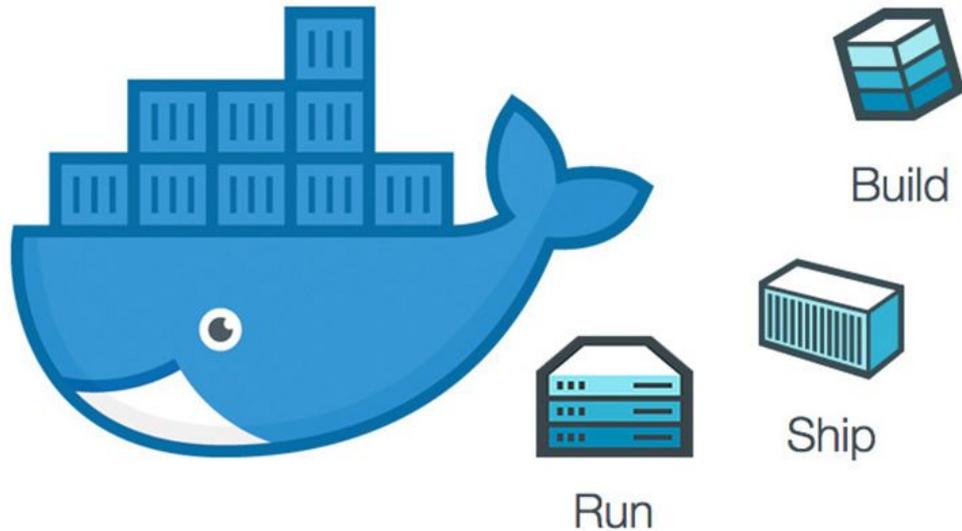


Tester

¡Ejecutemos este contenedor y comencemos a probar la aplicación!

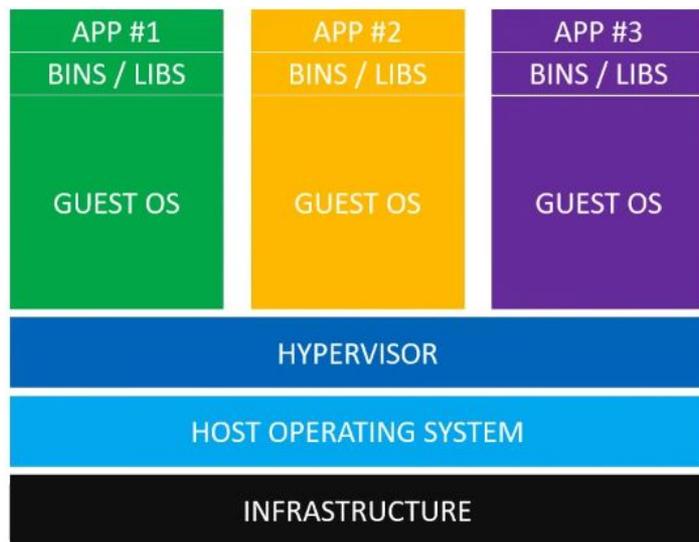


Docker resuelve el infame problema "funciona en mi máquina". ¡Los contenedores funcionan igual donde sea que los inicies!

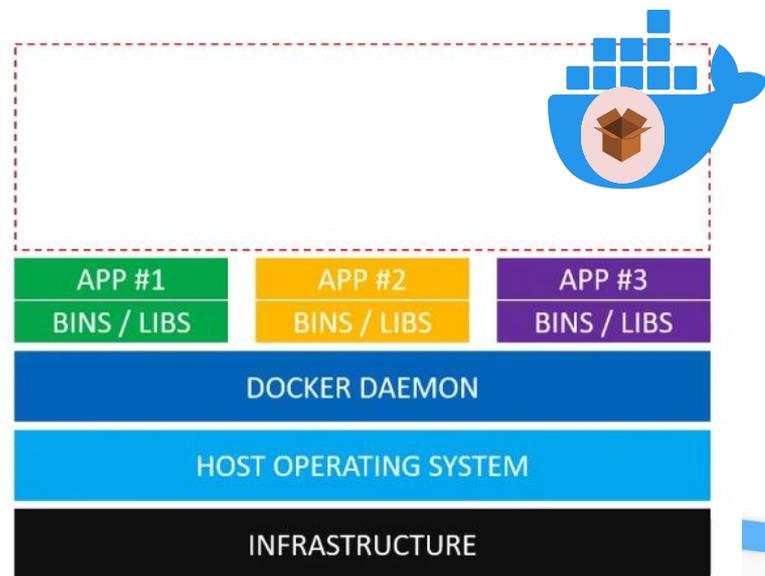


¿CÓMO ES ESTO POSIBLE?

MAQUINAS VIRTUALES



CONTENEDORES



Docker: Tipos de installation

- **Documentación oficial de Docker:**

<https://docs.docker.com/engine/install/>

- **Docker Desktop**

<https://www.docker.com/products/docker-desktop/>

- **Juega con Docker**

<https://labs.play-with-docker.com/>



Componentes básicos de Docker

```
FROM ubuntu:14.04
MAINTAINER myname@mycompany.com
RUN apt-get update
RUN apt-get install -y python
RUN python --help
CMD ["python", "--help"]
```

Dockerfile

build

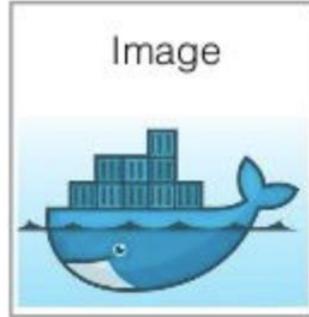
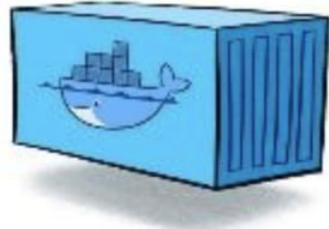


Imagen de Docker

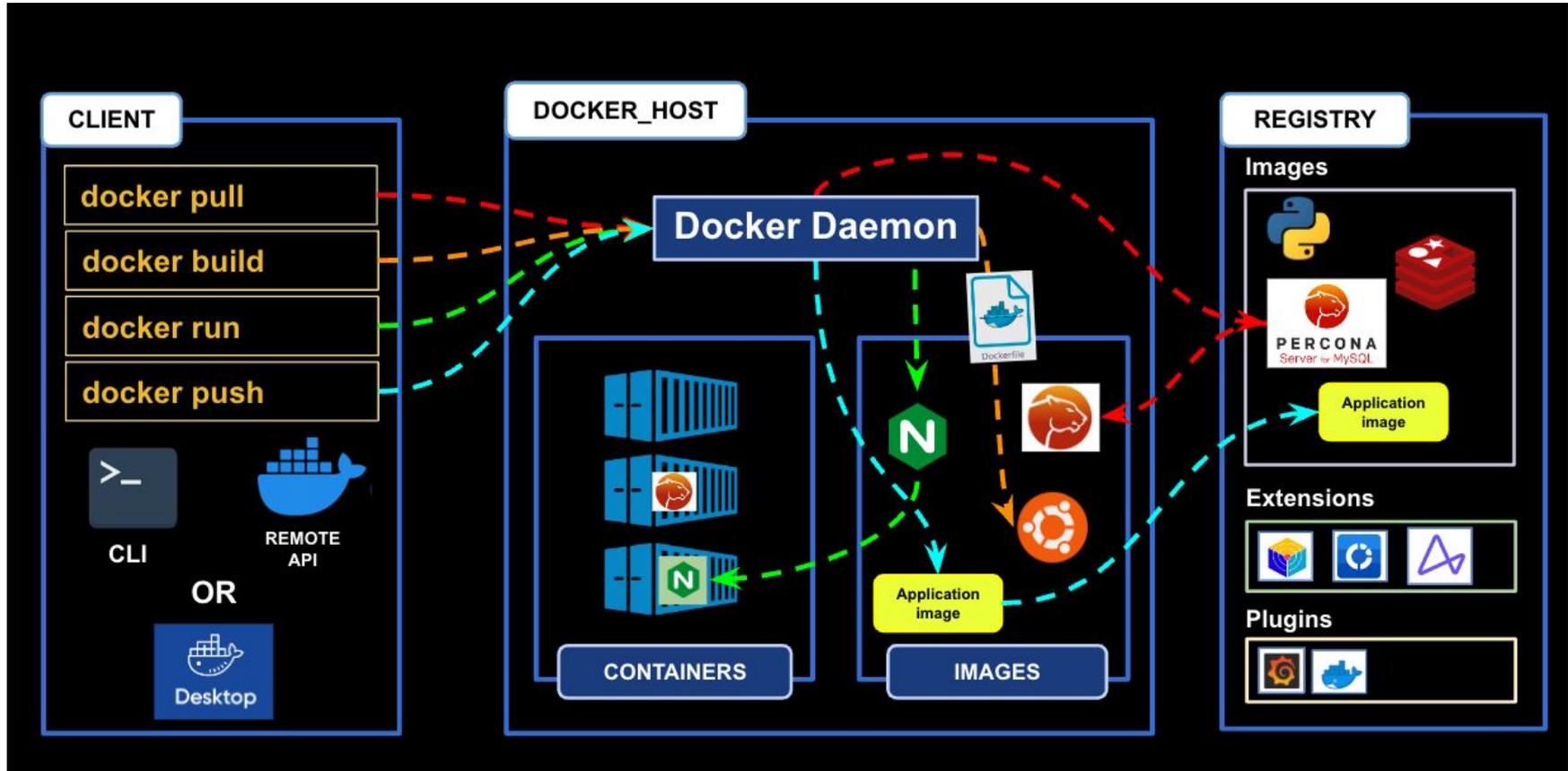
run



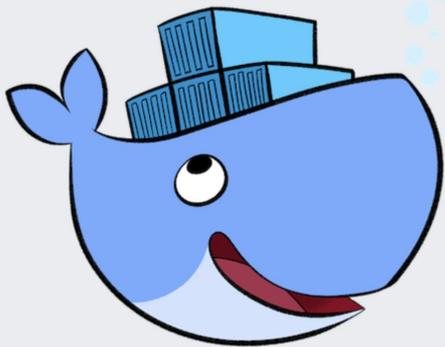
Contenedor de Docker



Arquitectura de Docker



Demo



Play with Docker

A simple, interactive and fun playground to learn Docker

Login ▾

Juega con Docker:

<https://labs.play-with-docker.com/>

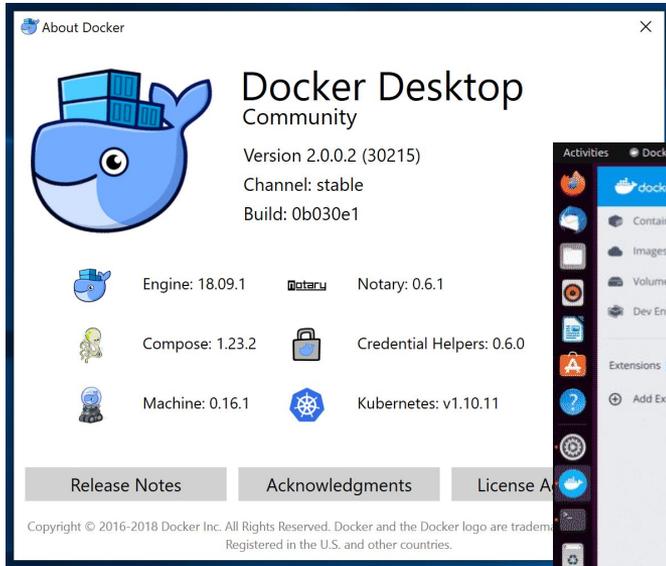
Commandos:



<https://github.com/editturn/hands-on-to-docker>



Novedades de Docker



About Docker

 **Docker Desktop**
Community

Version 2.0.0.2 (30215)
Channel: stable
Build: 0b030e1

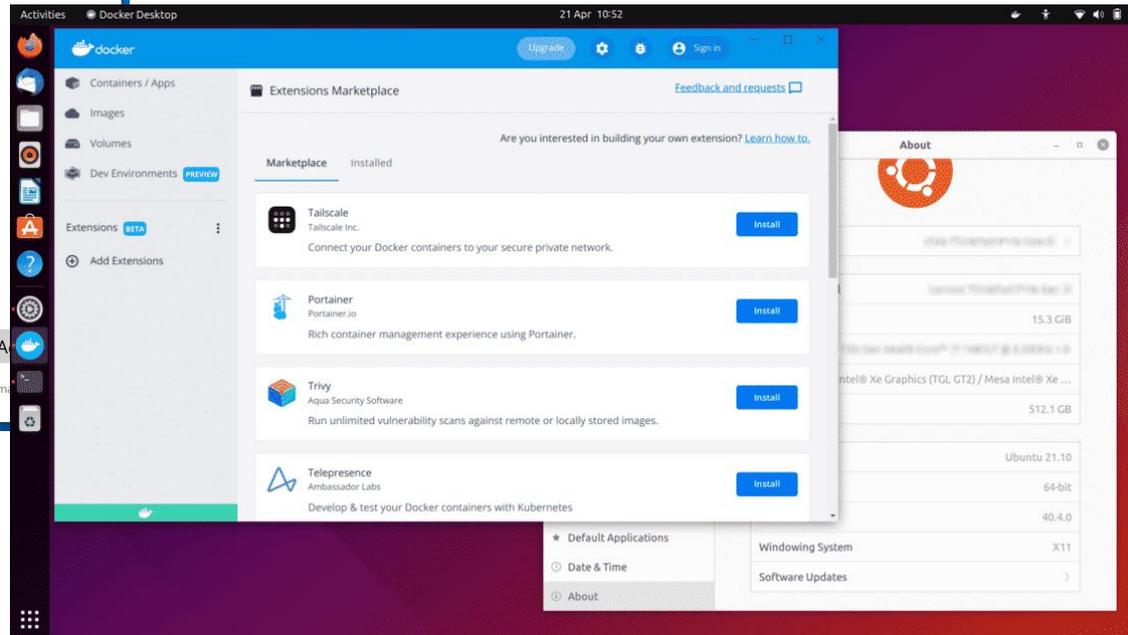
Engine: 18.09.1  Notary: 0.6.1

Compose: 1.23.2  Credential Helpers: 0.6.0

Machine: 0.16.1  Kubernetes: v1.10.11

[Release Notes](#) [Acknowledgments](#) [License A](#)

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Extensions Marketplace

Are you interested in building your own extension? [Learn how to.](#)

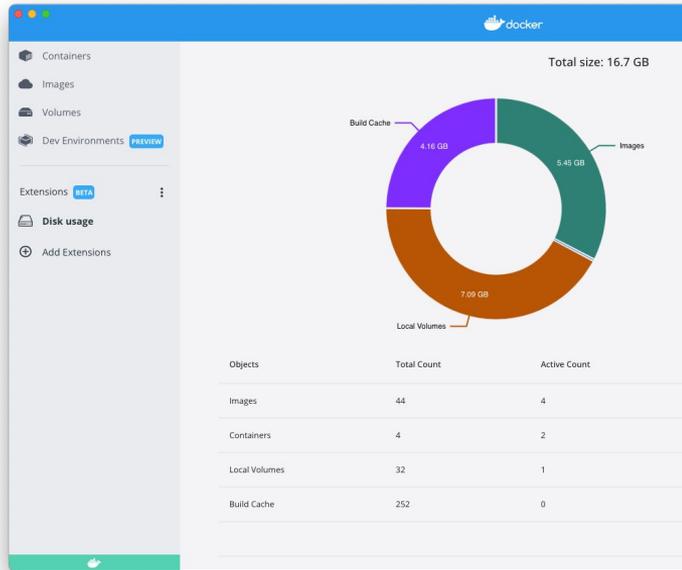
Marketplace Installed

-  **Tailscale**
Tailscale Inc.
Connect your Docker containers to your secure private network. [Install](#)
-  **Portainer**
Portainer.io
Rich container management experience using Portainer. [Install](#)
-  **Trivy**
Aqua Security Software
Run unlimited vulnerability scans against remote or locally stored images. [Install](#)
-  **Telepresence**
Ambassador Labs
Develop & test your Docker containers with Kubernetes. [Install](#)

About

- Default Applications
- Date & Time
- About
- Windowing System: X11
- Software Updates

Docker Extensions



Extensions Marketplace [Give Feedback](#)

Docker Extensions enable you to use third-party tools within Docker Desktop to extend its functionality. [Learn more](#)

- Disk Usage**
Docker Inc. - docker/disk-usage-extension:0.2.3
View disk space used by Docker and what it's used for. Reclaim disk space in one click. [Install](#)
- Epinio**
SUSE Rancher - splatform/epinio-docker-desktop:0.0.13
Push from source to Kubernetes in one step. [Install](#)
- Gosh**
EverX - teamgosh/docker-extension:1.0.0-alpha.7
Build your decentralized and secure software supply chain with Docker and Git On-chain Source Holder. [Install](#)
- JFrog**
JFrog Ltd. - jfrog/jfrog-docker-desktop-extension:1.0.1
Scan your Docker images for vulnerabilities with JFrog Xray. [Install](#)

WebAssembly and Docker



Oportunidades de la comunidad Docker



Contact local developers

Choose in between 200+ Docker User Groups around the globe, meeting virtually or in-person.

[Find your group](#)



Join our events

Connect with Docker and the Docker Community at events and conferences around the world.

[Check them out](#)



Community Leaders

A global dream team of community builders, passionate about nurturing the vibrant Docker ecosystem.

[Become one](#)



Meet the Captains

Docker Captains are both experts in their field and are passionate about sharing their Docker knowledge with others.

[Meet the Captains](#)

<https://www.docker.com/community/>

Thanks!

