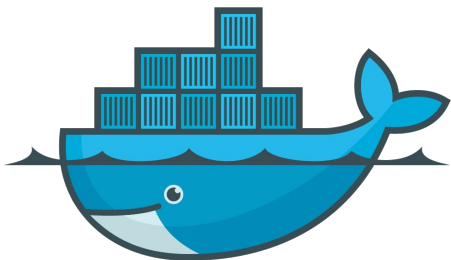




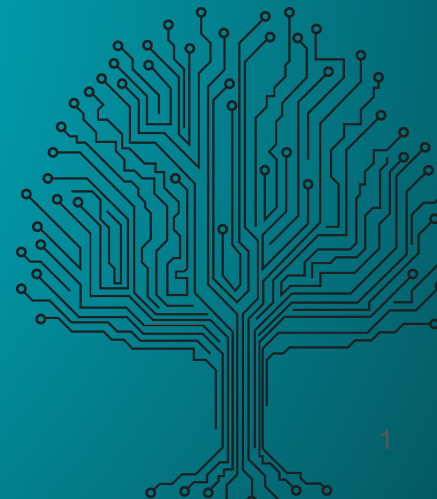
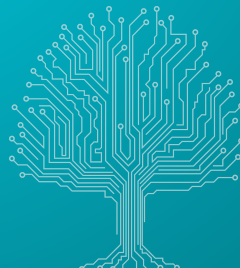
CI / CD



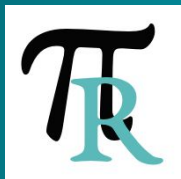
docker

Novembre 2018

anybox



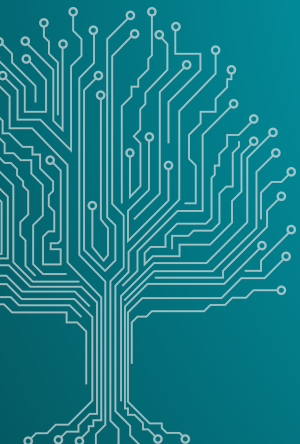
Pierre Verkest



twitter: @petrusv84

gh: petrus-v

pverkest@anybox.fr



anybox

Développement d'application métier:

- Odo
- AnyBlok

Mise en oeuvre et maintenance d'Infrastructure dans le nuage,
accompagnement DevOps.

Achat.io (Enrichissement de fichiers fournisseur)

Logiciel Libre

Python

Holacracy

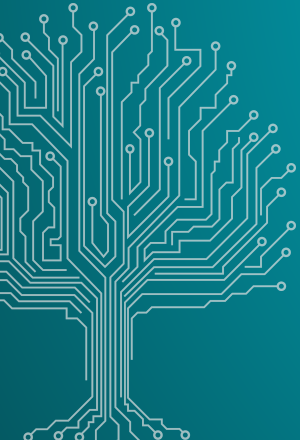
100% Télétravail

CI / CD



Au programme:

- ❑ CI/CD: Quésaco
- ❑ Pleins de sujets !
- ❑ Pourquoi ?
- ❑ Quels outils ?
- ❑ Démonos
- ❑ FAQ

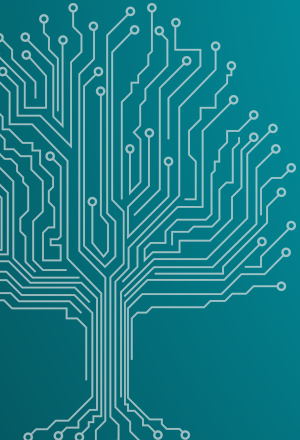


CI / CD

Quésaco ?

CI: Continuous Integration

CD: Continuous Deployment

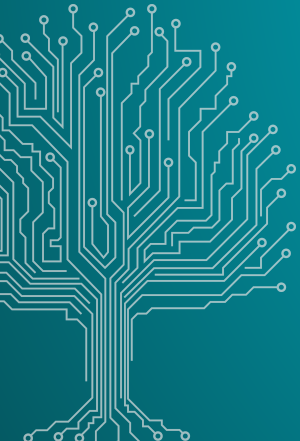


CI / CD

Quésaco ?

Quoi ?

Quels sujets ?

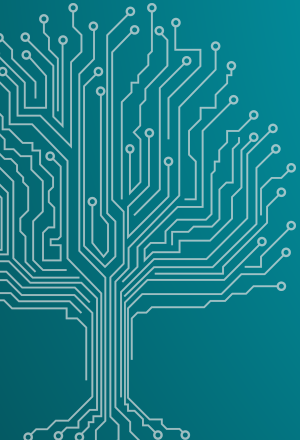


CI / CD

Quésaco ?

Quoi ?

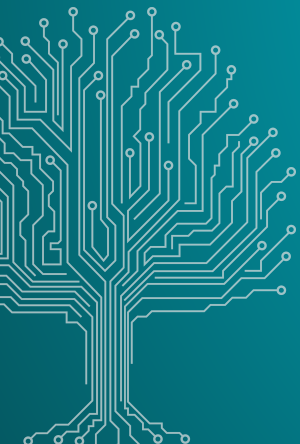
Gestionnaire de code source



CI / CD

Quésaco ?

Quoi ?

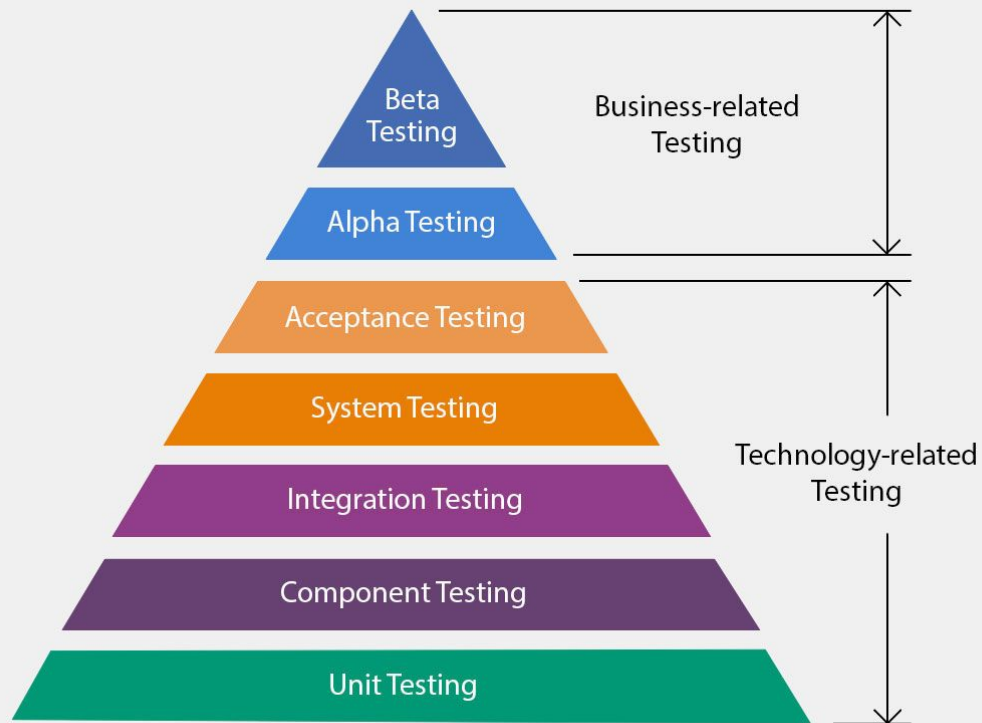


AUTOMATED TESTING PYRAMID

PROJECT
COMPLETION



TIME
EXPENSE
COVERAGE

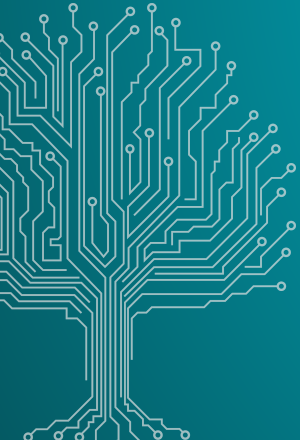


CI / CD

Quésaco ?

Quoi ?

Code linters

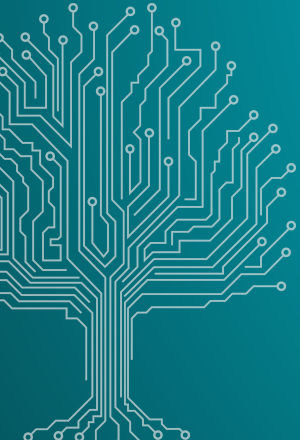


CI / CD

Quésaco ?

Quoi ?

Robot d'intégration

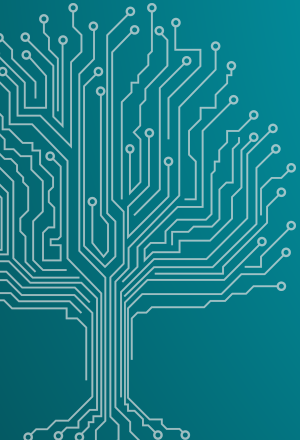


CI / CD

Quésaco ?

Quoi ?

Revue de code



CI / CD

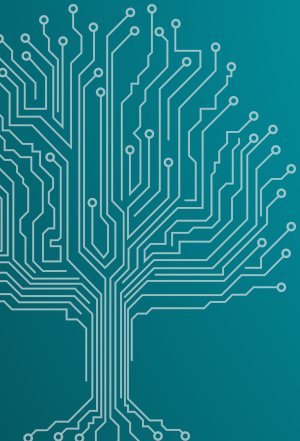
Quésaco ?

Quoi ?

Pourquoi ?

Est-ce vraiment nécessaire ?

Quels objectifs ?



CI / CD

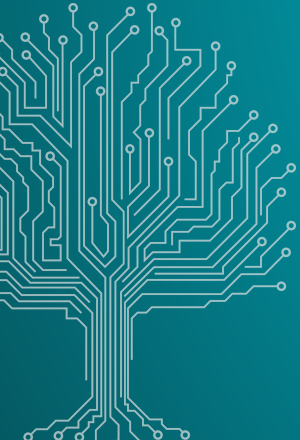
Quésaco ?

Quoi ?

Pourquoi ?

Comment ?

Quels outils ?



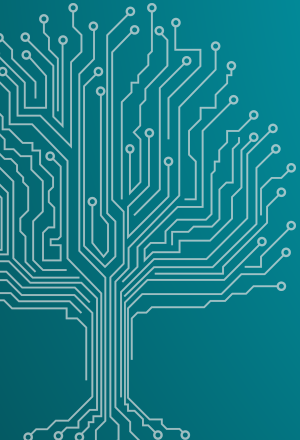
CI / CD

Quésaco ?

Quoi ?

Pourquoi ?

Comment ?



(D)VCS

(Distributed) Version Control System



(D)SCM

(Distributed) Source Control Management



git

https://en.wikipedia.org/wiki/List_of_version_control_software

CI / CD

Quésaco ?

Quoi ?

Pourquoi ?

Comment ?

Forge de code source



Gitea



GitLab



https://fr.wikipedia.org/wiki/Forge_%28informatique%29

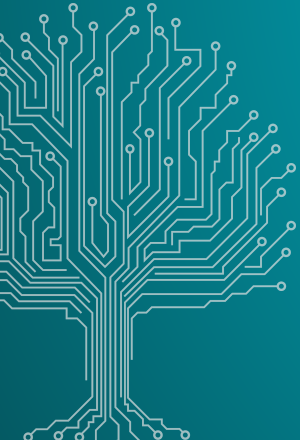
CI / CD

Quésaco ?

Quoi ?

Pourquoi ?

Comment ?



Boîte à outils de tests

Lanceur de tests

Générateur de données
de tests

Selenium / Appium

CI / CD

Quésaco ?

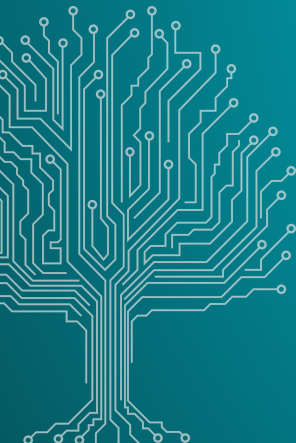
Quoi ?

Pourquoi ?

Comment ?

Code linters

<https://github.com/collections/clean-code-linters>



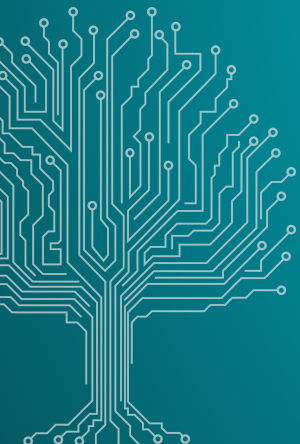
CI / CD

Quésaco ?

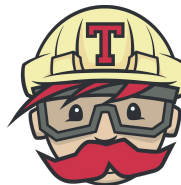
Quoi ?

Pourquoi ?

Comment ?



Robots d'intégration



Travis CI



GitLab CI



drone



Jenkins



circleci



https://en.wikipedia.org/wiki/Comparison_of_continuous_integration_software

CI / CD

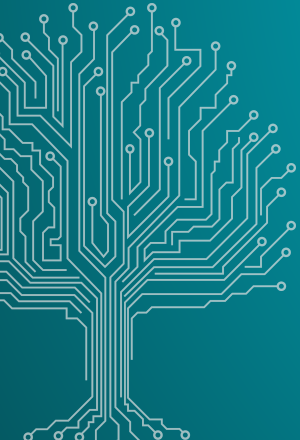
Quésaco ?

Quoi ?

Pourquoi ?

Comment ?

Démo !



Démo !

CI / CD

Quésaco ?

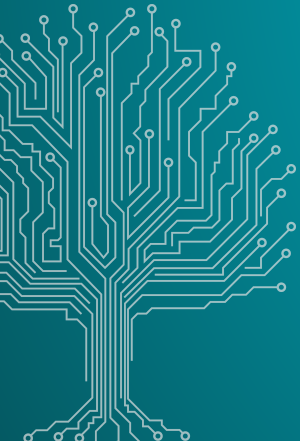
Quoi ?

Pourquoi ?

Comment ?

Démo !

FAQ !



MERCI

FAQ

(Foire Aux Questions)

CI / CD

Quésaco ?

Quoi ?

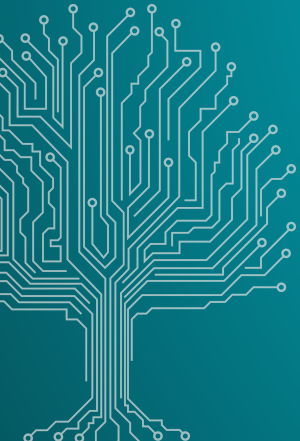
Pourquoi ?

Comment ?

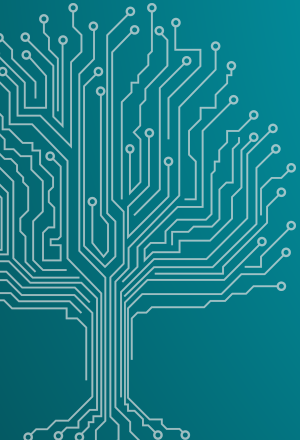
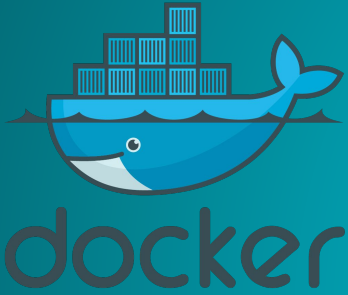
Démo !

FAQ !

Une pause kawa?!



Docker

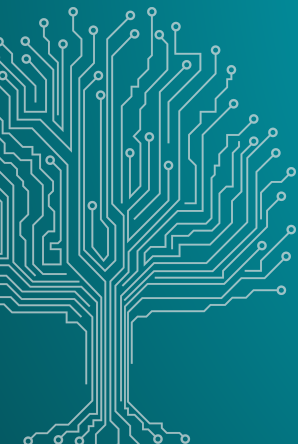
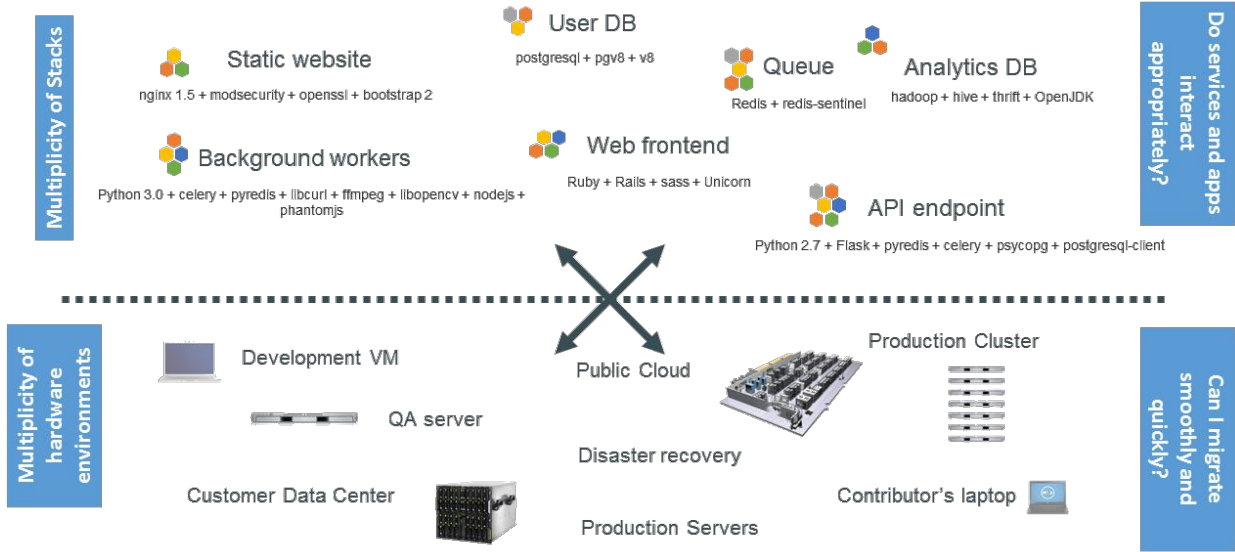


Au programme:

- ❑ Ca vient d'où ?
- ❑ Dans quel but ?
- ❑ C'est quoi Docker ?
- ❑ Les principes clefs
- ❑ L'orchestration
- ❑ Démonos
- ❑ FAQ






Docker

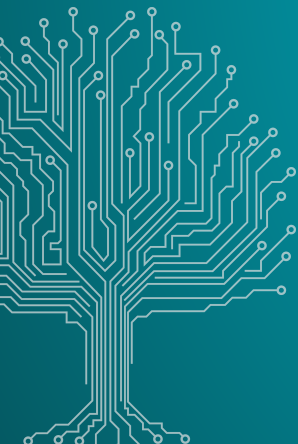
Ca vient d'où ?



Docker

Ca vient d'où ?

	Static website	?	?	?	?	?	?	?
	Web frontend	?	?	?	?	?	?	?
	Background workers	?	?	?	?	?	?	?
	User DB	?	?	?	?	?	?	?
	Analytics DB	?	?	?	?	?	?	?
	Queue	?	?	?	?	?	?	?
		Development VM	QA Server	Single Prod Server	Onsite Cluster	Public Cloud	Contributor's laptop	Customer Servers



Docker

Ca vient d'où ?

Multiplicity of Goods

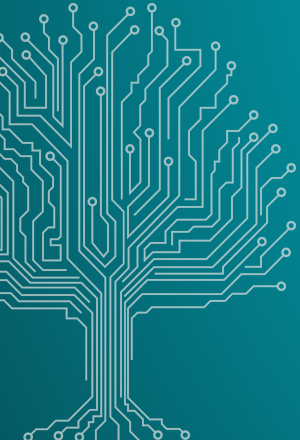


Do I worry about
how goods interact
(e.g. coffee beans
next to spices)

Multiplicity of
methods for
transporting/storing
















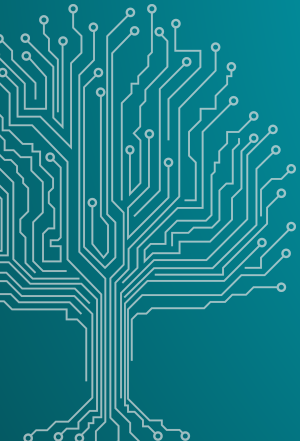
Can I transport quickly
and smoothly
(e.g. from boat to train
to truck)



Docker

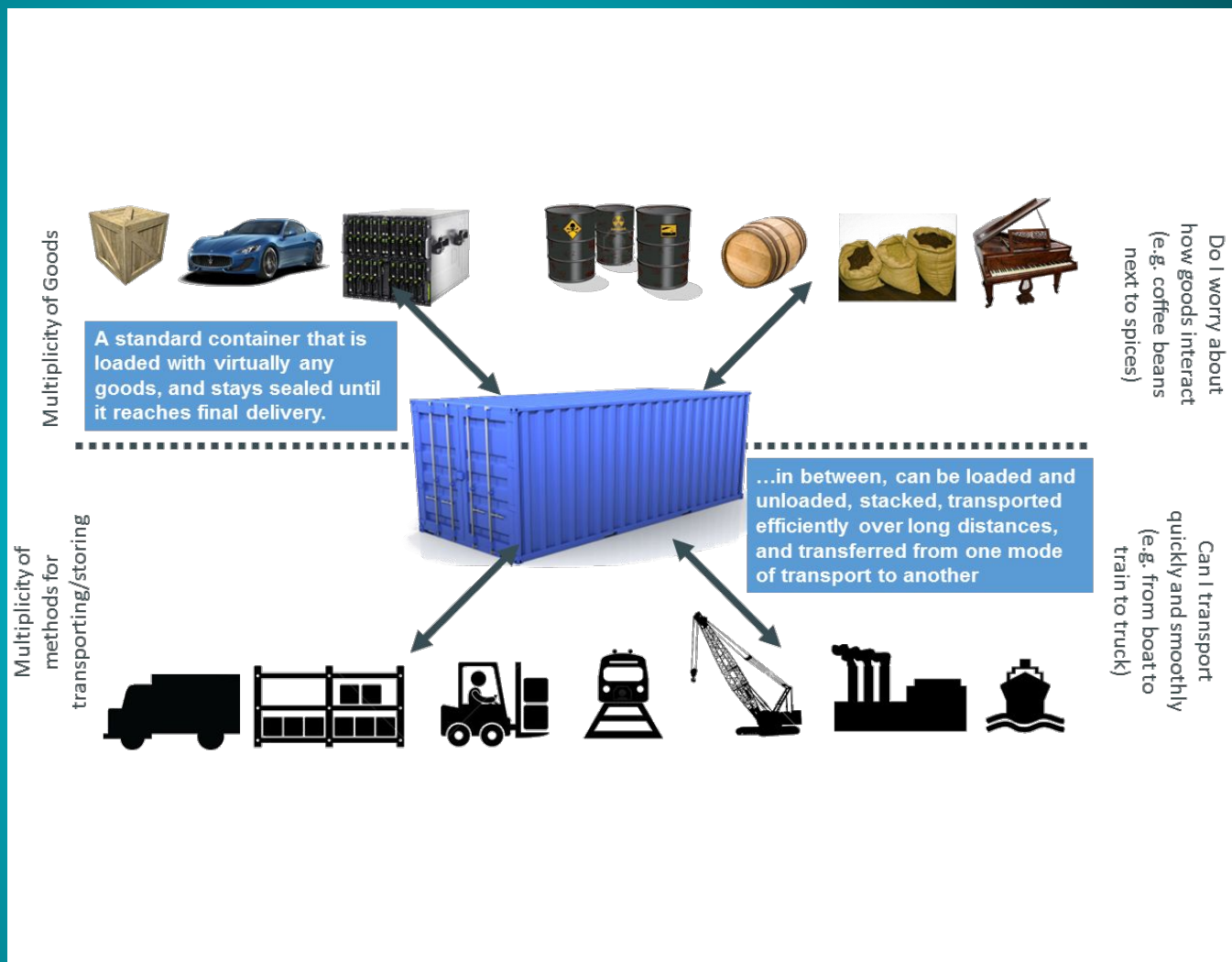
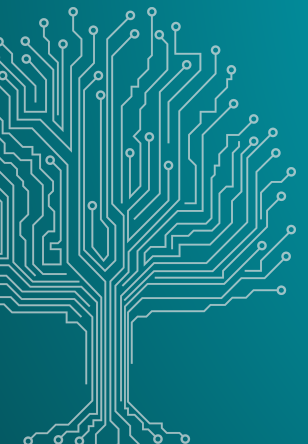
Ca vient d'où ?

	?	?	?	?	?	?	?
	?	?	?	?	?	?	?
	?	?	?	?	?	?	?
	?	?	?	?	?	?	?
	?	?	?	?	?	?	?
	?	?	?	?	?	?	?
							



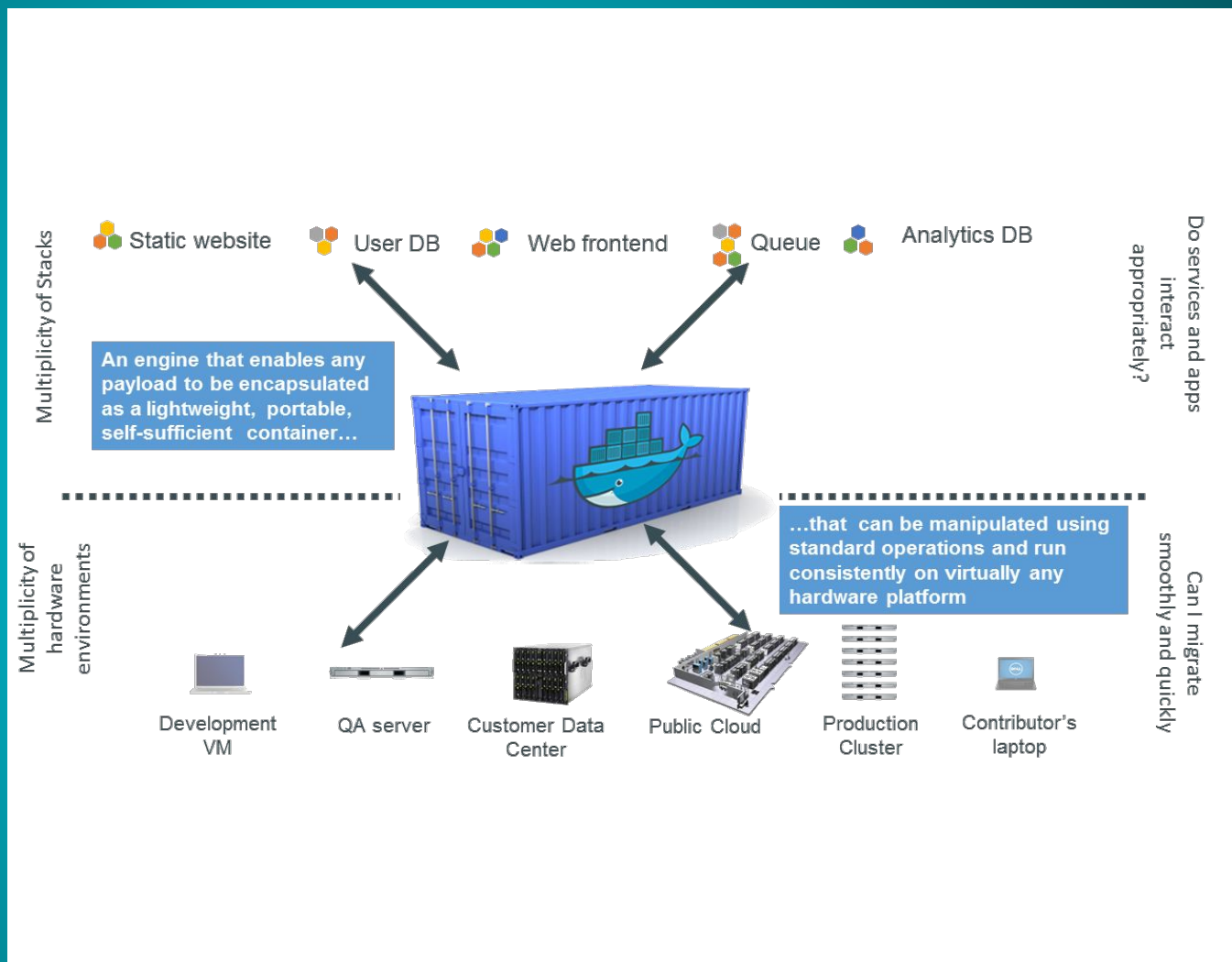
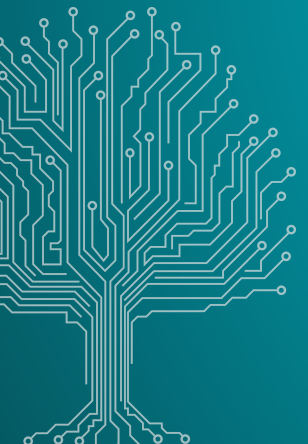
Docker

Ca vient d'où ?



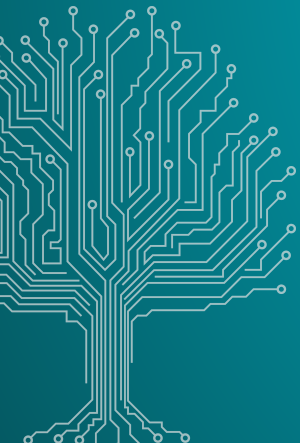
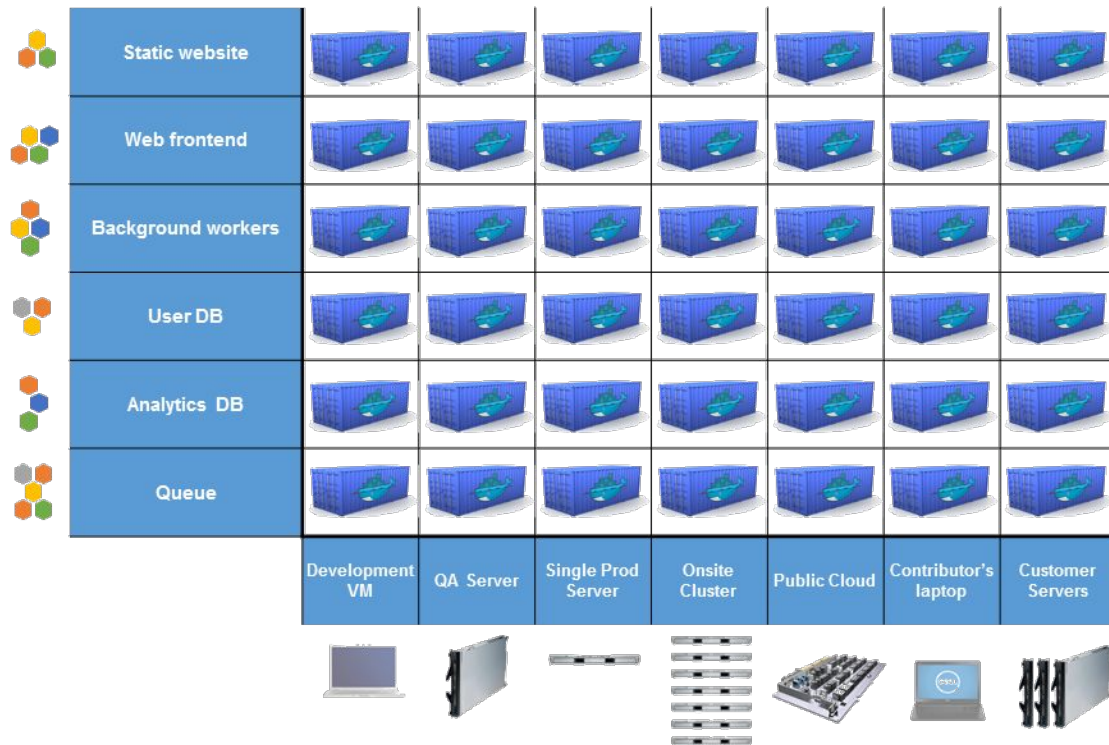
Docker

Ca vient d'où ?



Docker

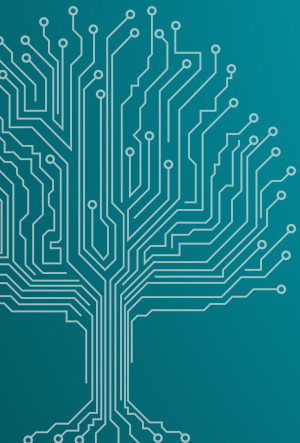
Ca vient d'où ?



Docker

Ca vient d'où ?

Objectifs !



Why Developers Care

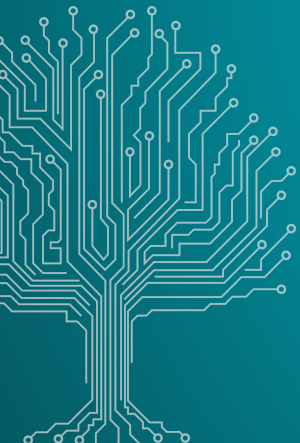
Build once... (finally) run *anywhere**

- A clean, safe, hygienic, portable runtime environment for your app.
- No worries about missing dependencies, packages and other pain points during subsequent deployments.
- Run each app in its own isolated container, so you can run various versions of libraries and other dependencies for each app without worrying.
- Automate testing, integration, packaging...anything you can script.
- Reduce/eliminate concerns about compatibility on different platforms, either your own or your customers.
- Cheap, zero-penalty containers to deploy services. A VM without the overhead of a VM. Instant replay and reset of image snapshots.

Docker

Ca vient d'où ?

Objectifs !



Why Administrators Care

Configure once... run anything

- Make the entire lifecycle more efficient, consistent, and repeatable
- Increase the quality of code produced by developers.
- Eliminate inconsistencies between development, test, production, and customer environments.
- Support segregation of duties.
- Significantly improves the speed and reliability of continuous deployment and continuous integration systems.
- Because the containers are so lightweight, address significant performance, costs, deployment, and portability issues normally associated with VMs.

Docker

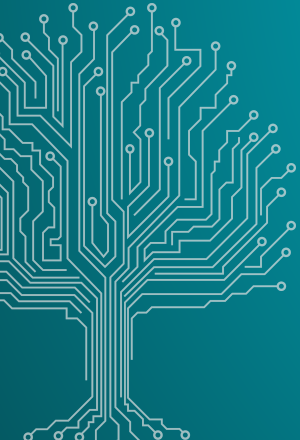
Ca vient d'où ?

Objectifs !

Quésaco ?



Un ensemble d'outils, pour
manipuler
des
Conteneurs applicatifs
pour faciliter le cycle des projets
informatiques:
code, build, tests, release,
exécution.

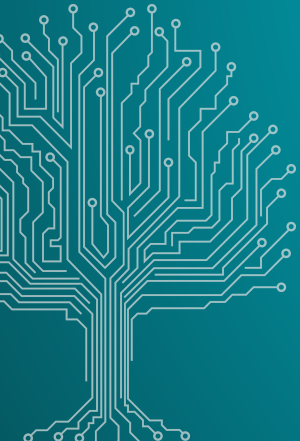
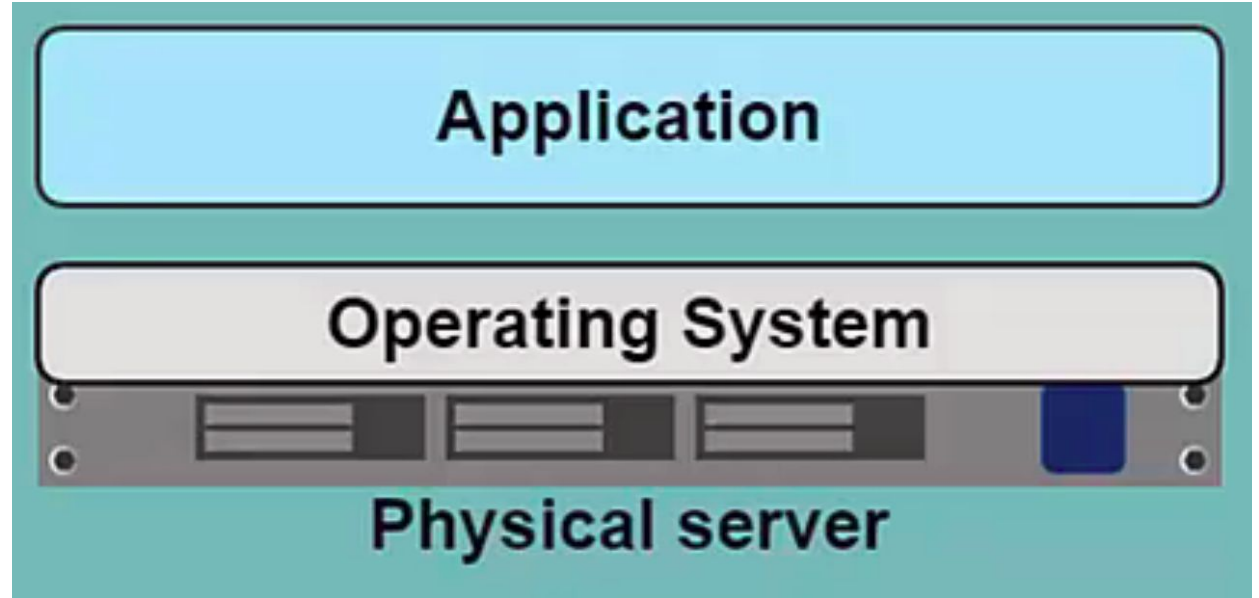


Docker

Ca vient d'où ?

Objectifs !

Quésaco ?

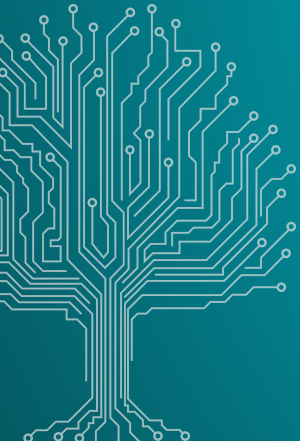
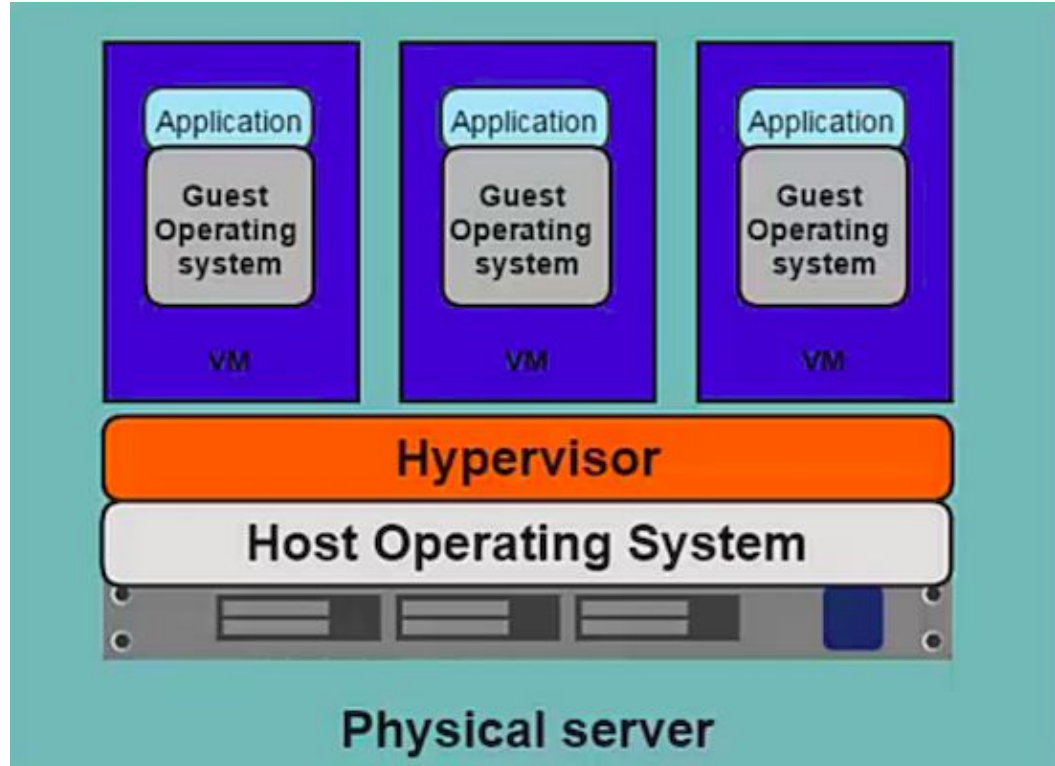


Docker

Ca vient d'où ?

Objectifs !

Quésaco ?

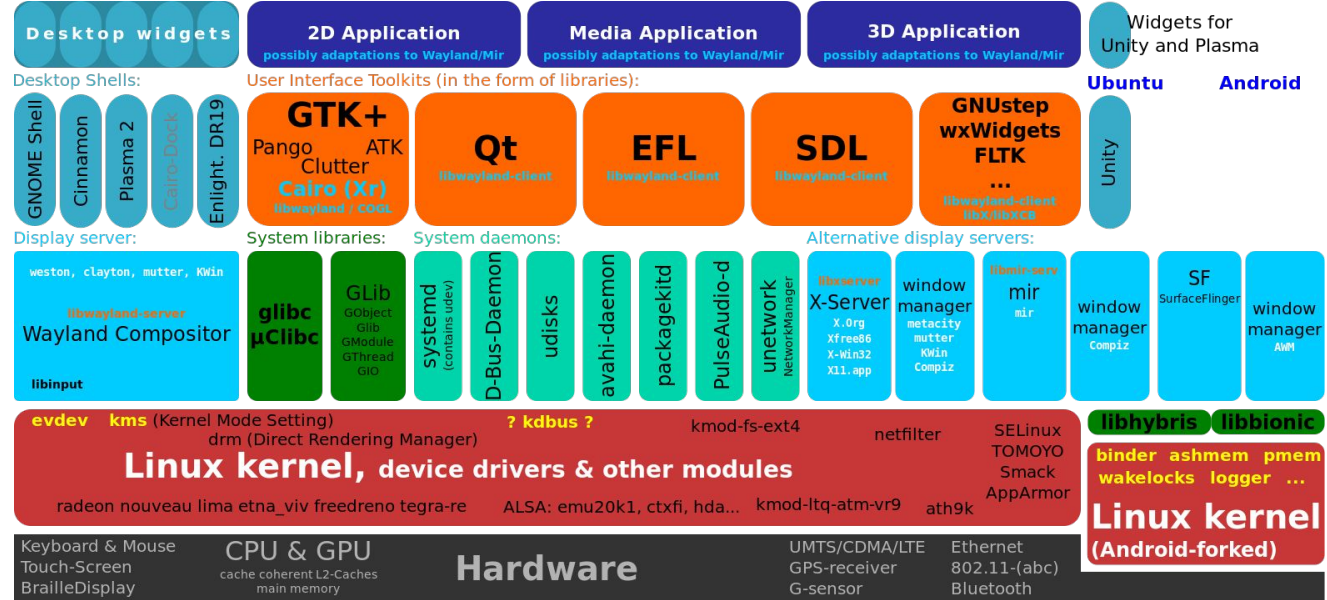
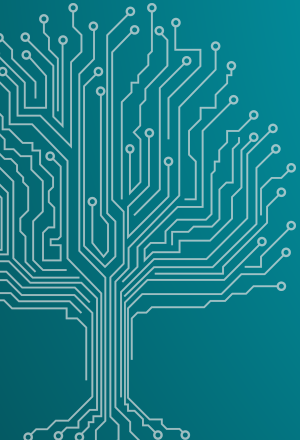


Docker

Ca vient d'où ?

Objectifs !

Quésaco ?

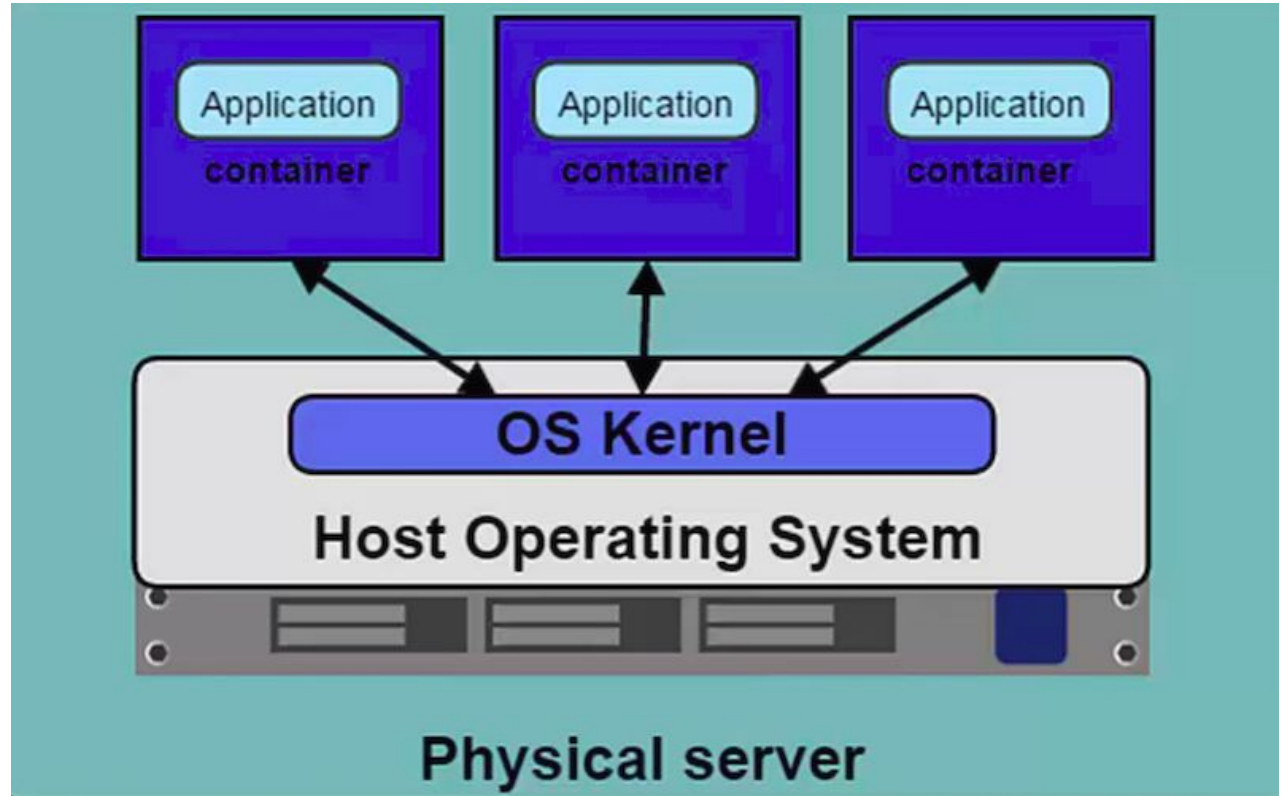
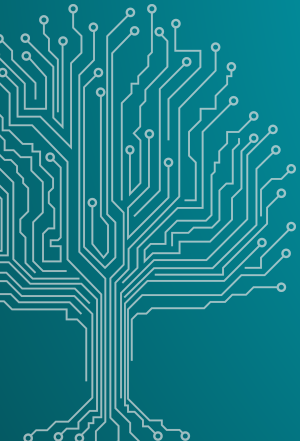


Docker

Ca vient d'où ?

Objectifs !

Quésaco ?

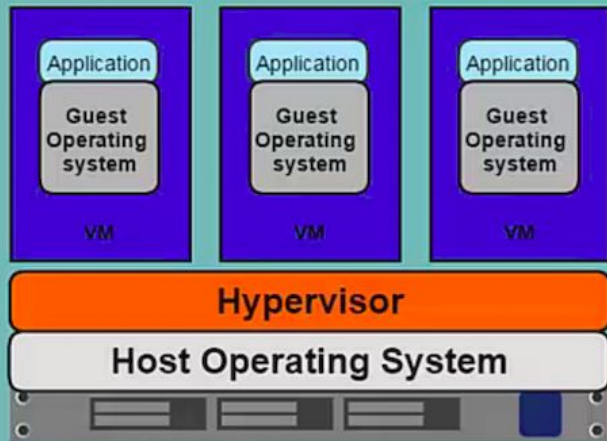


Docker

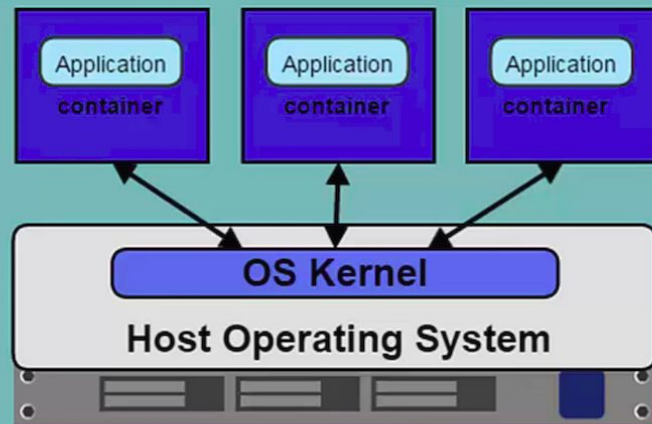
Ca vient d'où ?

Objectifs !

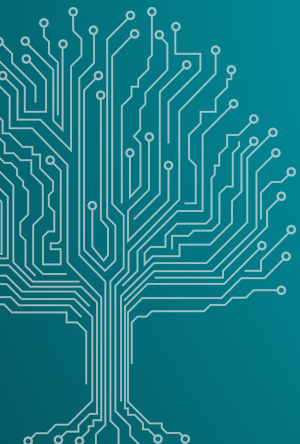
Quésaco ?



Physical server



Physical server

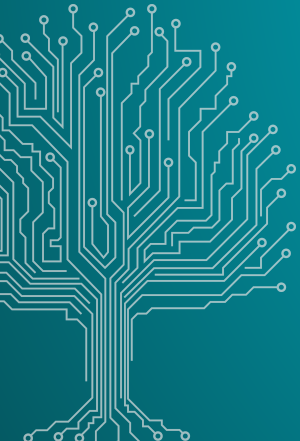
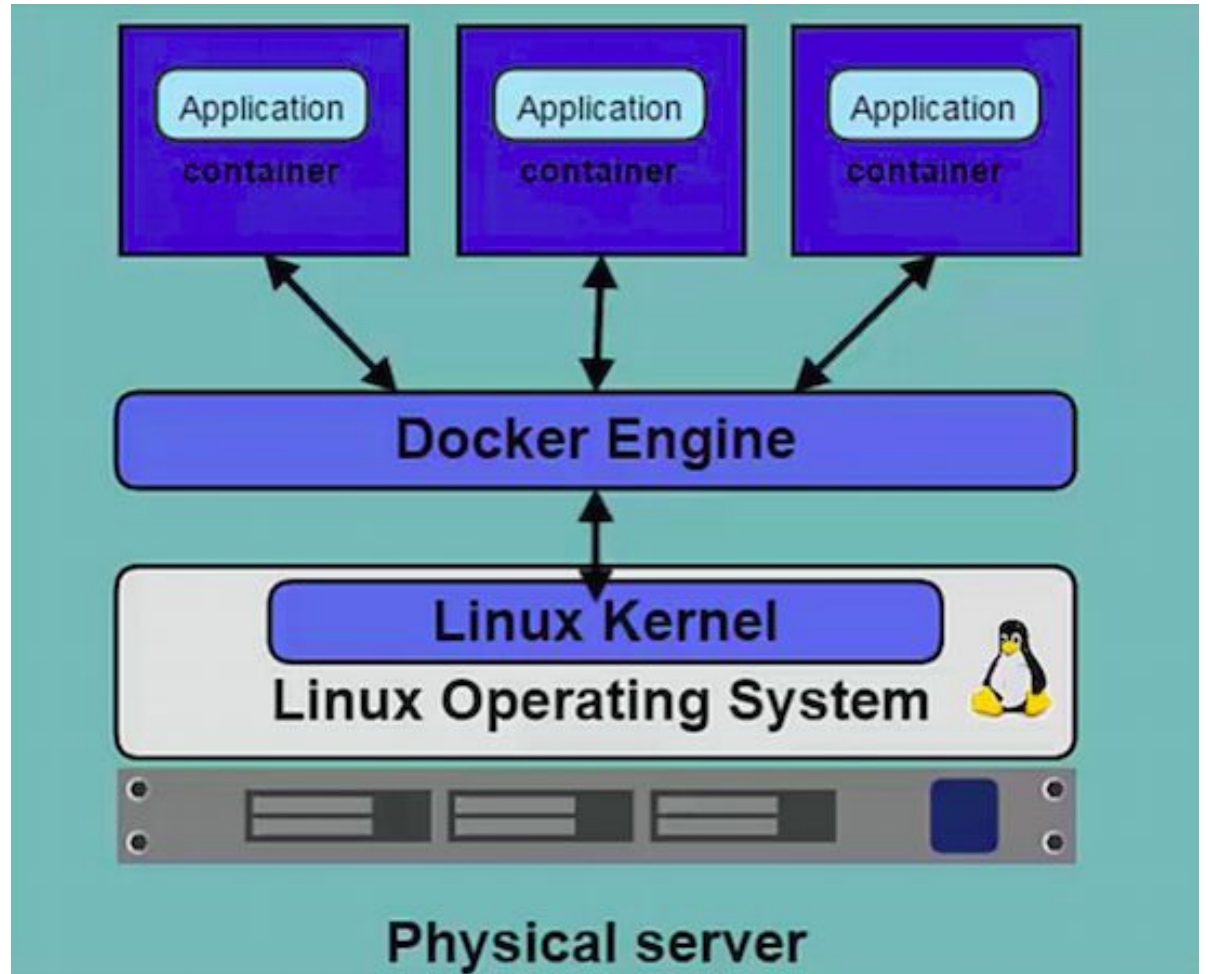


Docker

Ca vient d'où ?

Objectifs !

Quésaco ?



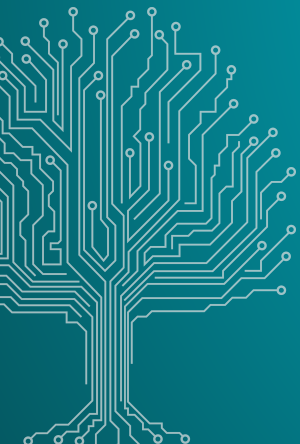
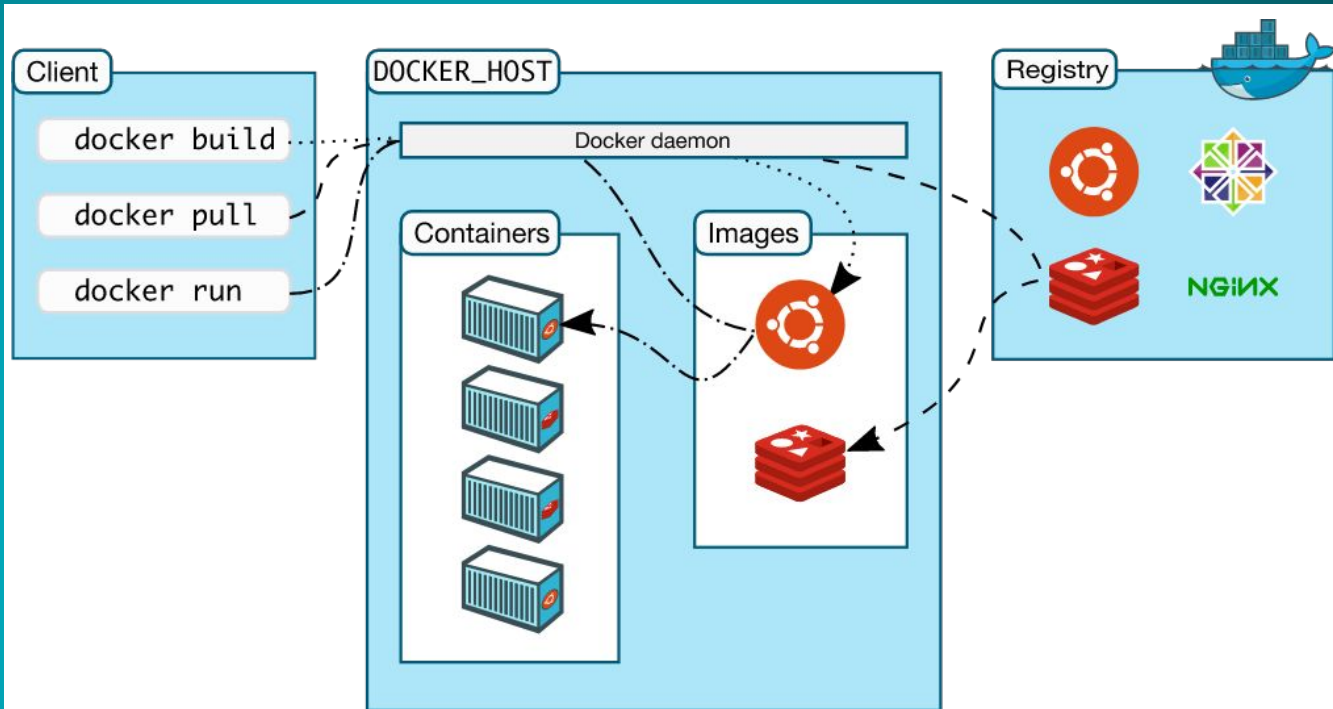
Docker

Ca vient d'où ?

Objectifs !

Quésaco ?

Les principes clefs



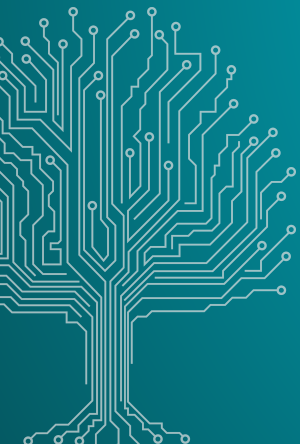
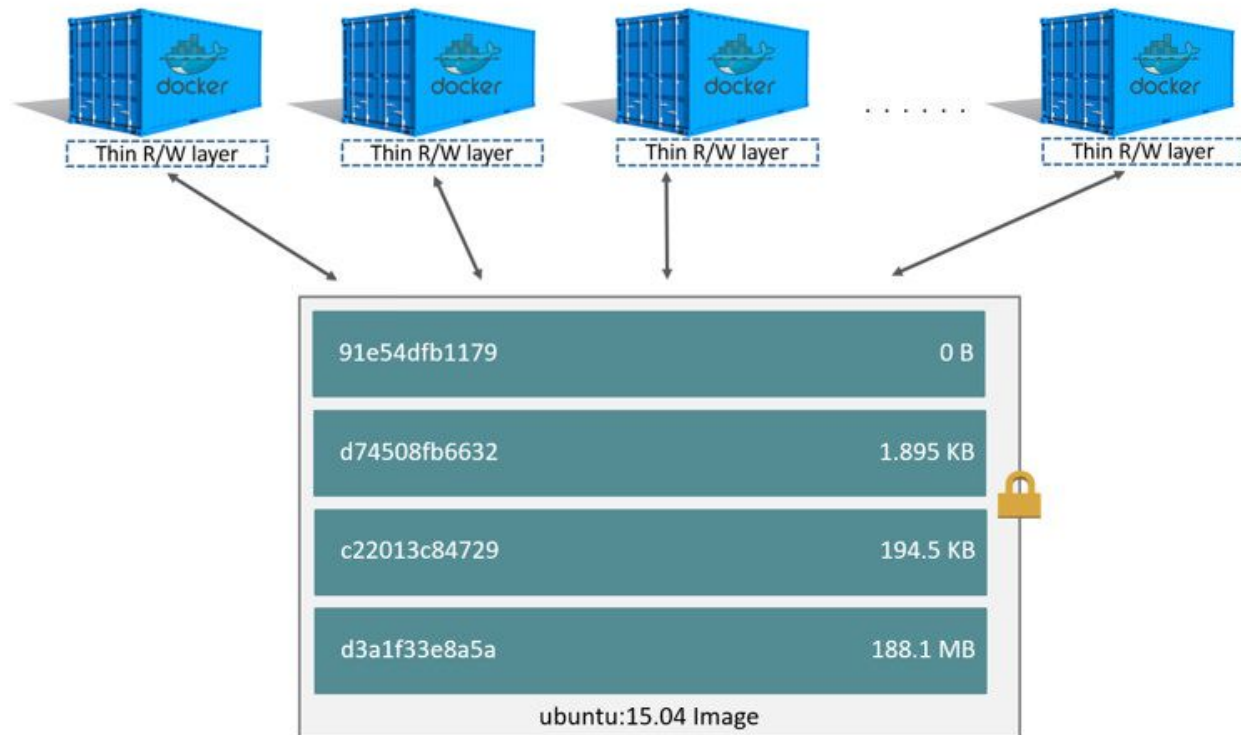
Docker

Ca vient d'où ?

Objectifs !

Quésaco ?

Les principes clefs



Docker

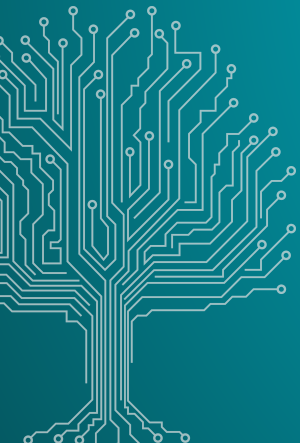
Ca vient d'où ?

Objectifs !

Quésaco ?

Les principes clefs

L'orchestration



Kubernetes



Docker

Ca vient d'où ?

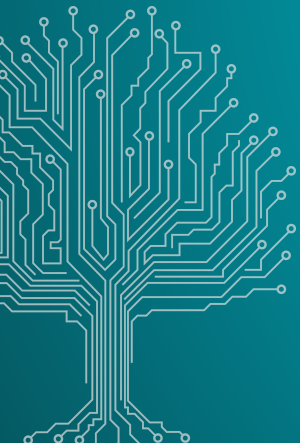
Objectifs !

Quésaco ?

Les principes clefs

L'orchestration

Démo



Démo

Docker

Ca vient d'où ?

Objectifs !

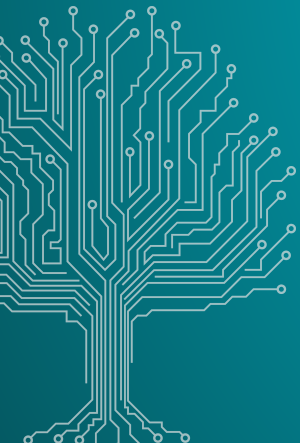
Quésaco ?

Les principes clefs

L'orchestration

Démo

FAQ



MERCI

FAQ

(Foire Aux Questions)

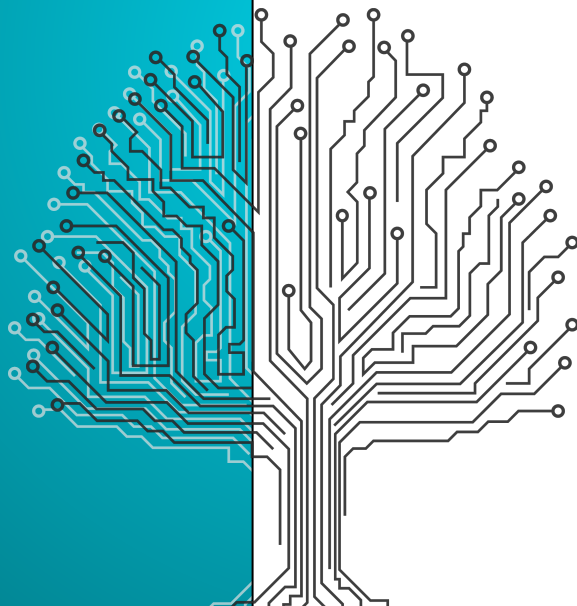
Merci

[Developer roadmap](#)

Qu'est-ce qui vous a le plus surpris ?

Qu'avez vous appris ?

Des améliorations ?



anybox