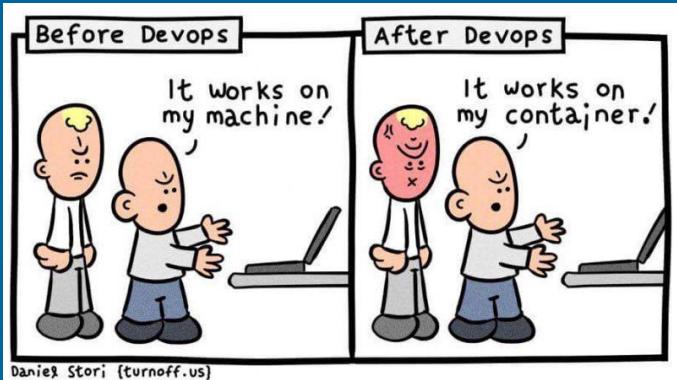
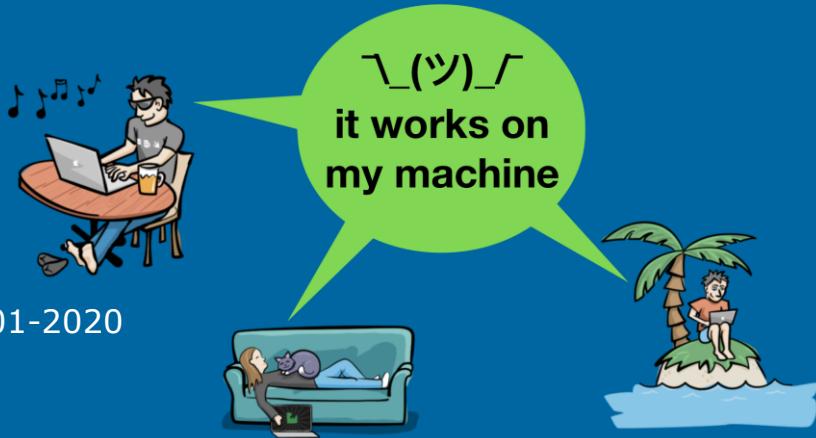


Let's Talk about Container

06-01-2020



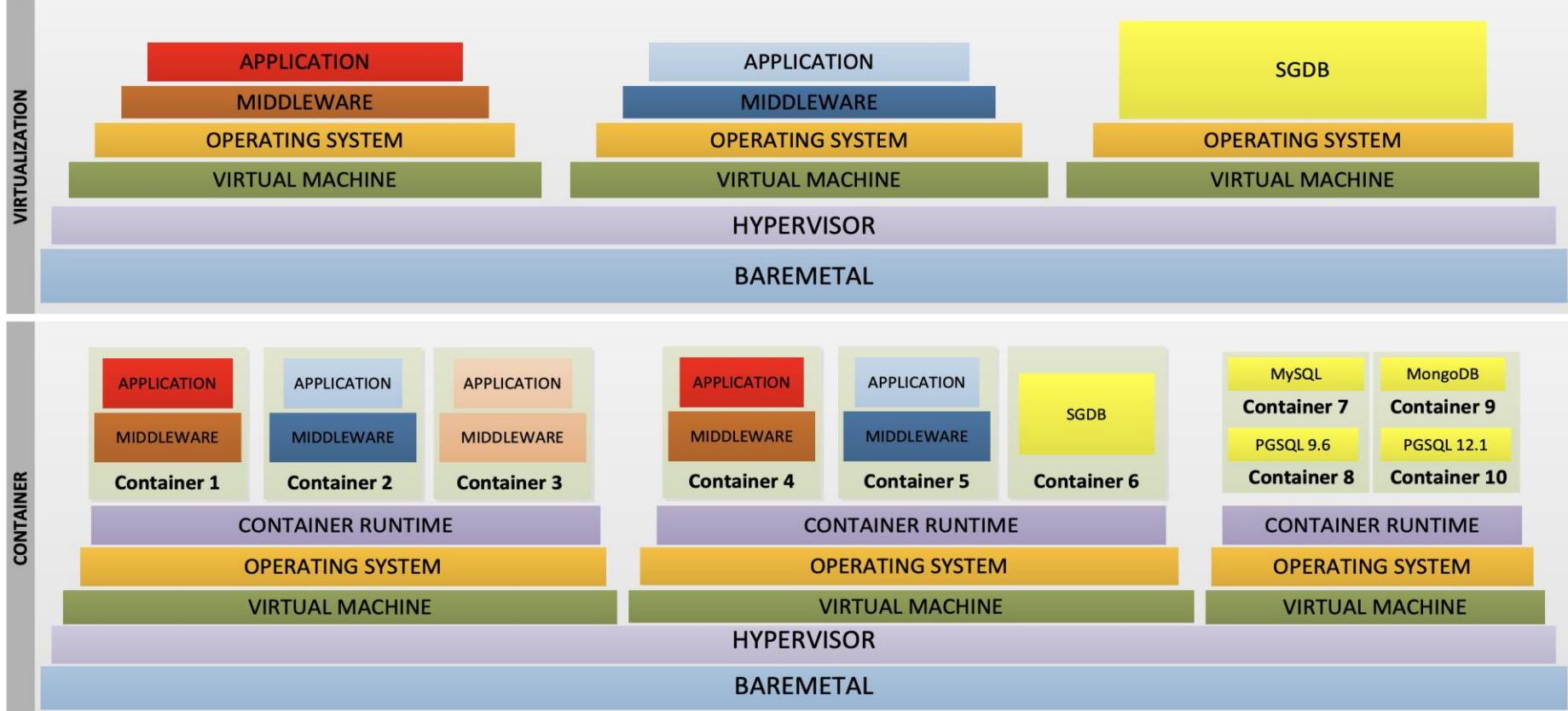
SUMMARY

- 1 - GLOBAL OVERVIEW
- 2 - VIRTUALIZATION
- 3 - CONTAINER OVERVIEW
- 4 - WHAT ARE WE TALKING ABOUT
- 5 - WHAT ARE WE TALKING ABOUT COMPATIBILITY
- 6 - WHO IN CHARGE OF WHAT
- 7 - #IMAGE #CONTAINER #INSTANCE
- 8 - HOW DOES IT WORK
- 9 - WHAT ABOUT STATS
- 10 - WHAT ABOUT PRICE LIST
- 11 - ROADMAP
- 12 - NEWS
- 13 - FUN

1

GLOBAL OVERVIEW

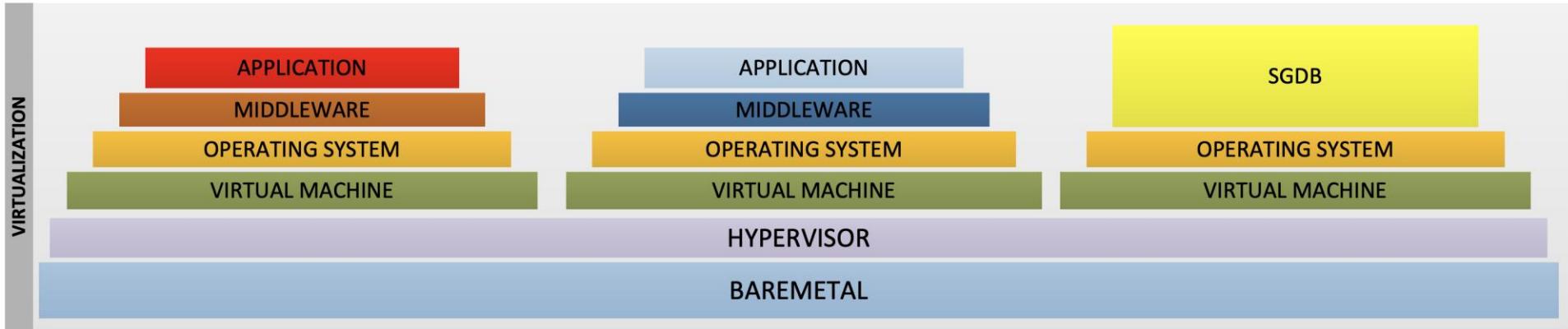
CONTAINER & VIRTUALIZATION QUICK VIEW



2

VIRTUALIZATION OVERVIEW

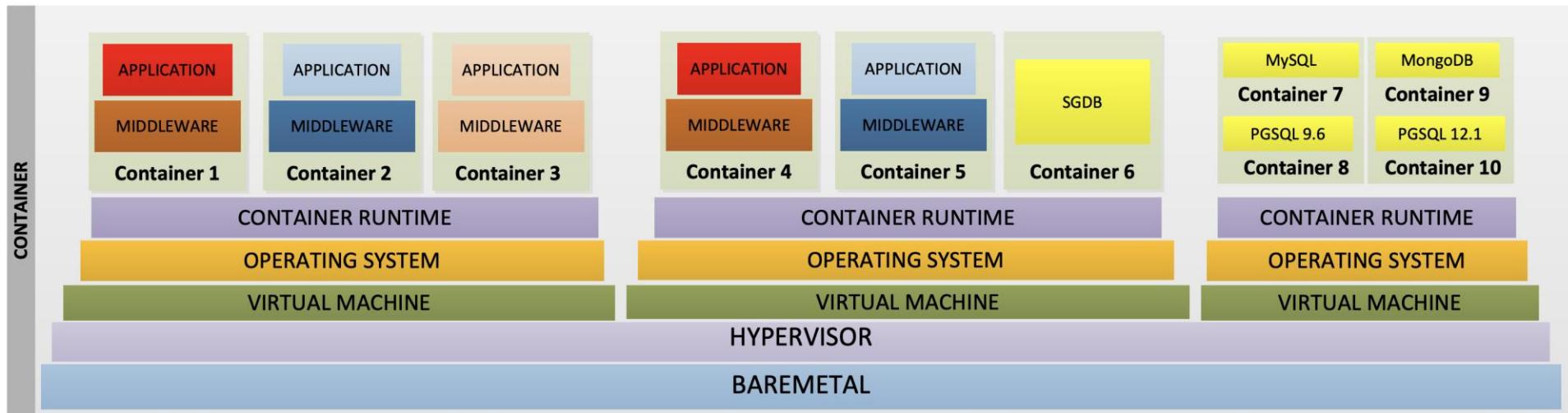
How to host application by using Virtual Machine



3

CONTAINER OVERVIEW

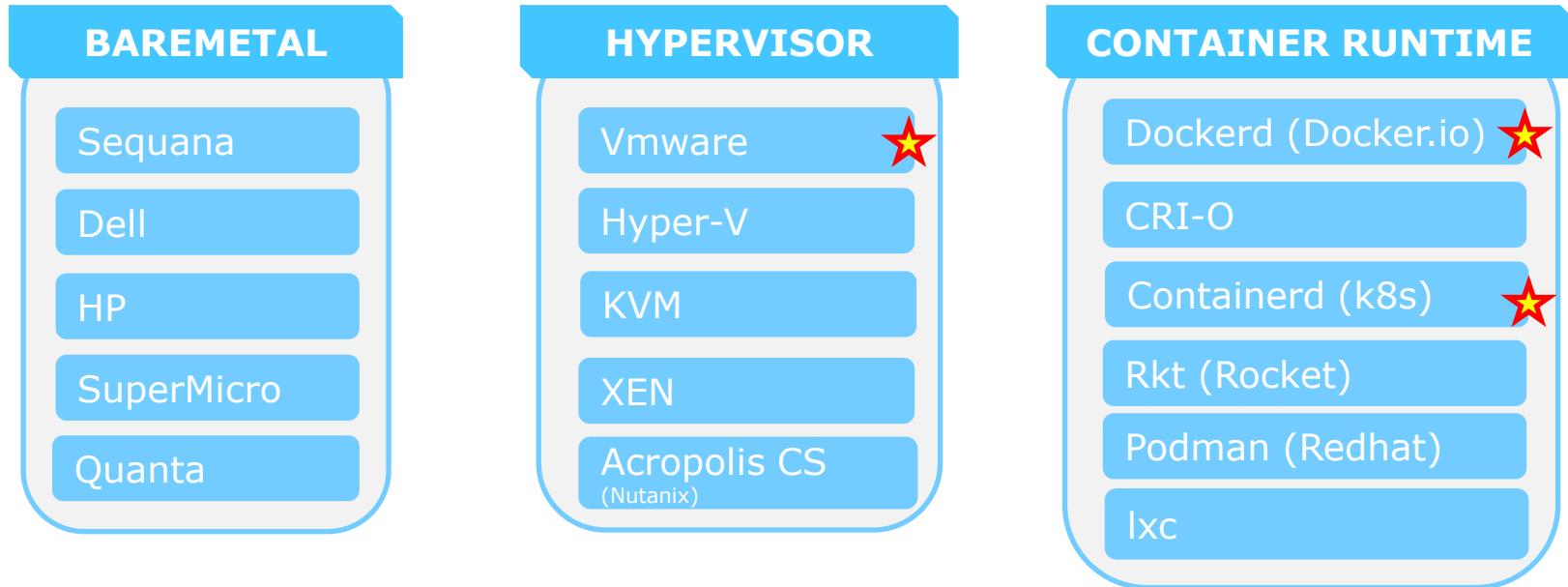
How to host application by using Container



4

What are we talking about ?

What are we talking about (1/5)?



What are we talking about (2/5)?

ORCHESTRATION CLUSTER

Kubernetes



Tanzu (vmware Pacific)

OpenShift (Redhat)

Mesos Nomad

Tanka (by Grafana)

Swarm

Depreciate

Need server cnx

API Based

CONF MANAGEMENT

Ansible



Chef

Puppet

Saltstack

APP DEPLOYMENT

Helm



GitKube

Draft

Kustomize

SUPER MANAGER

Rancher

Karbon (ACS/Nutanix)

HYBRID MANAGER

Outposts (AWS)

Anthos (GCP)

Azure Arc (Microsoft)

SERVICE MANAGEMENT

Docker Compose

What are we talking about (3/5)?

CONTAINER MONITORING

DaemonSet

Prometheus 

Datadog⁽¹⁾

INFRA AS CODE

Terraform 

ARM (Azure)

CONTAINER REGISTRY

Docker⁽¹⁾
Docker Trusted Registry

Docker Hub

GitLab
GitLab Container Registry 

Quay.io

Sonatype Nexus 

Harbor

CONTAINER ANALYSIS

Clair

Trivy (Aqua)

Anchore

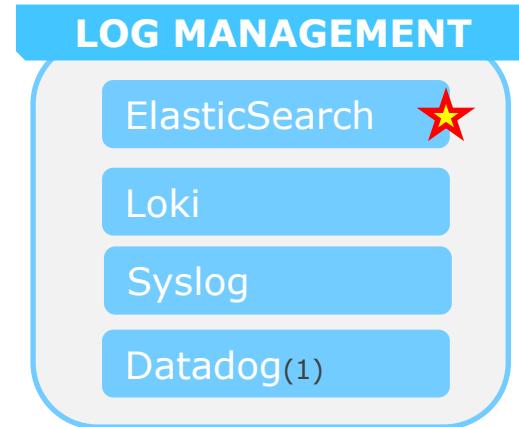
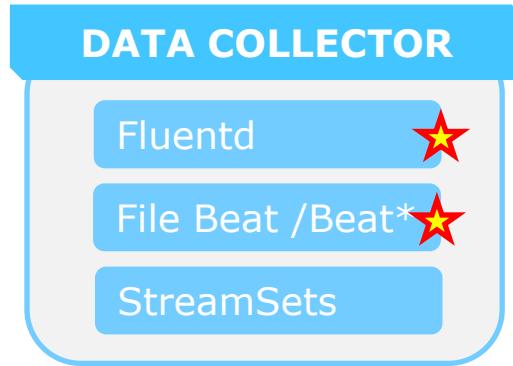
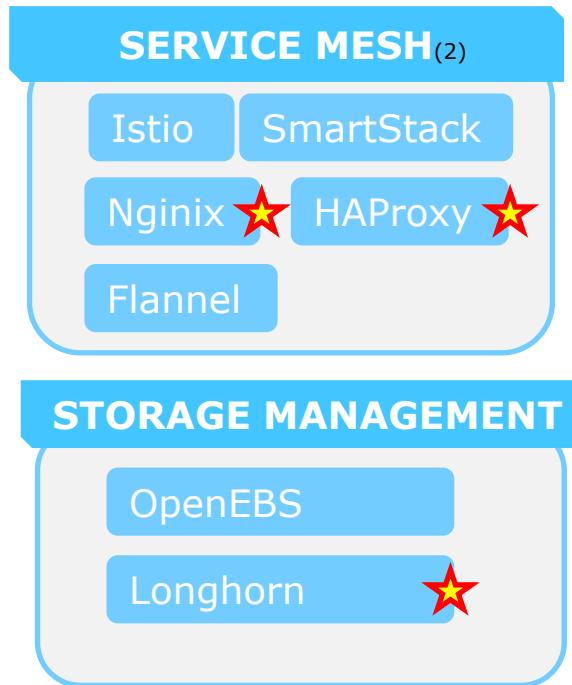
Snyk (1)

GoHarbor 

(1) paid mode

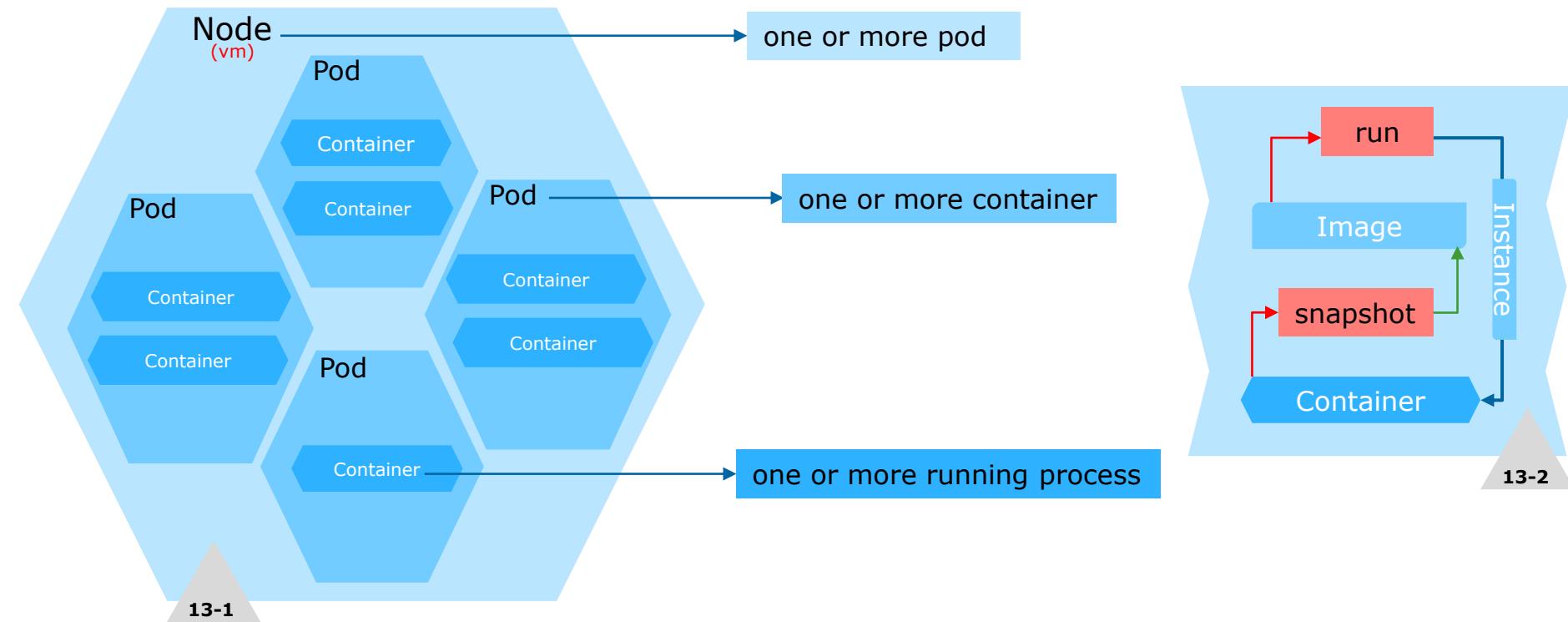
What are we talking about (4/5)?

(1) paid mode
(2) multi-tenant



What are we talking about (5/5)?

Just for good wording !!

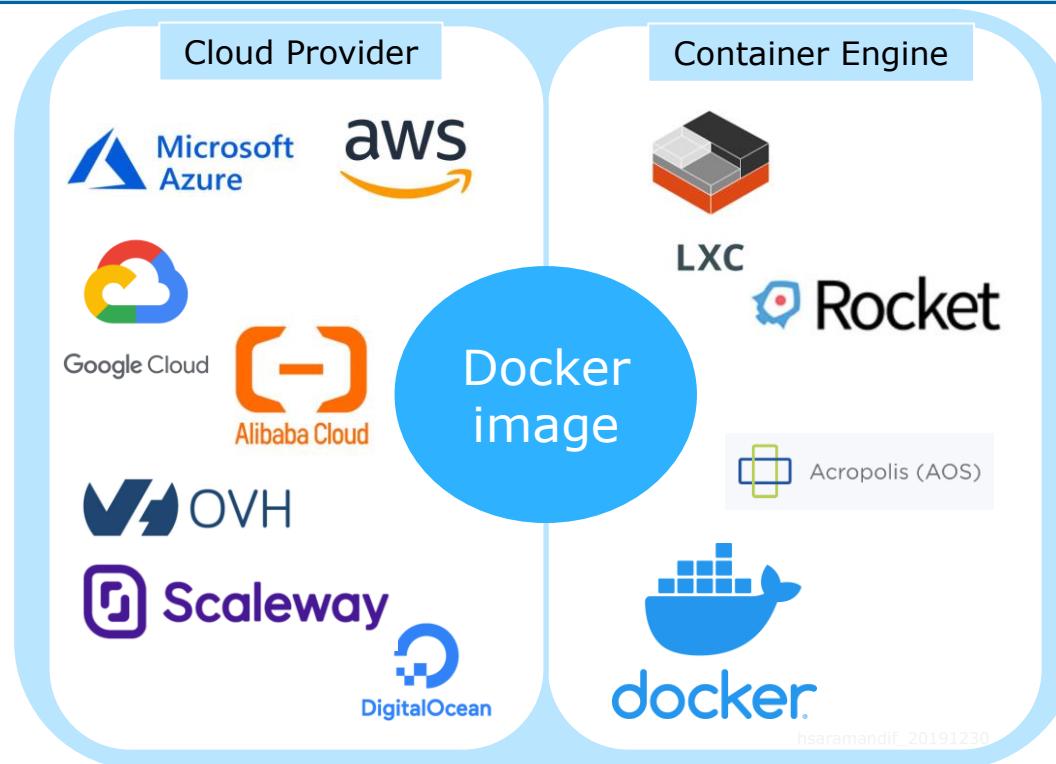


5

What About compatibility ?

Now think portability !!

or why Docker.io rules the world ?

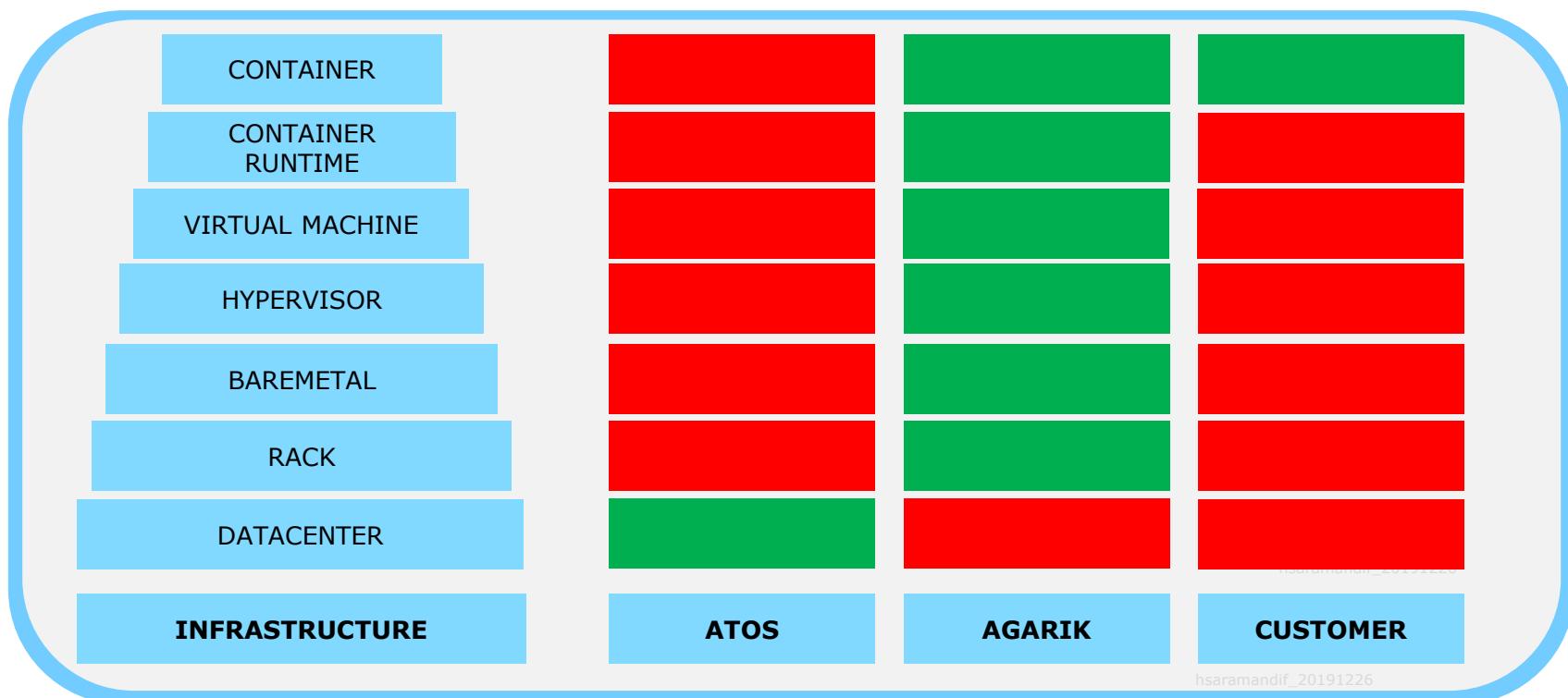


6

Who in charge of what ?

New infrastructure design : what about perimeter ?

GLOBAL VIEW



New infrastructure design : what about perimeter ?

CONTAINER & SERVICES VIEW

INFRASTRUCTURE	OPERATION			
	HOST	BUILD	MANAGE	MAINTENANCE
CONTAINER	AGA	AGA CUS	AGA	AGA CUS
CONTAINER RUNTIME	AGA	AGA	AGA	AGA
CONTAINER MONITORING	AGA	AGA	AGA	AGA
CONTAINER ANALYSIS	AGA	AGA	AGA	AGA
CONTAINER REGISTRY	AGA	AGA	AGA	AGA
CONFIGURATION MANAGEMENT	AGA	AGA CUS	AGA	AGA CUS
LOG MANAGEMENT	AGA	AGA	AGA	AGA
SERVICE MESH	AGA	AGA	AGA	AGA
ORCHESTRATION CLUSTER	AGA	AGA	AGA	AGA

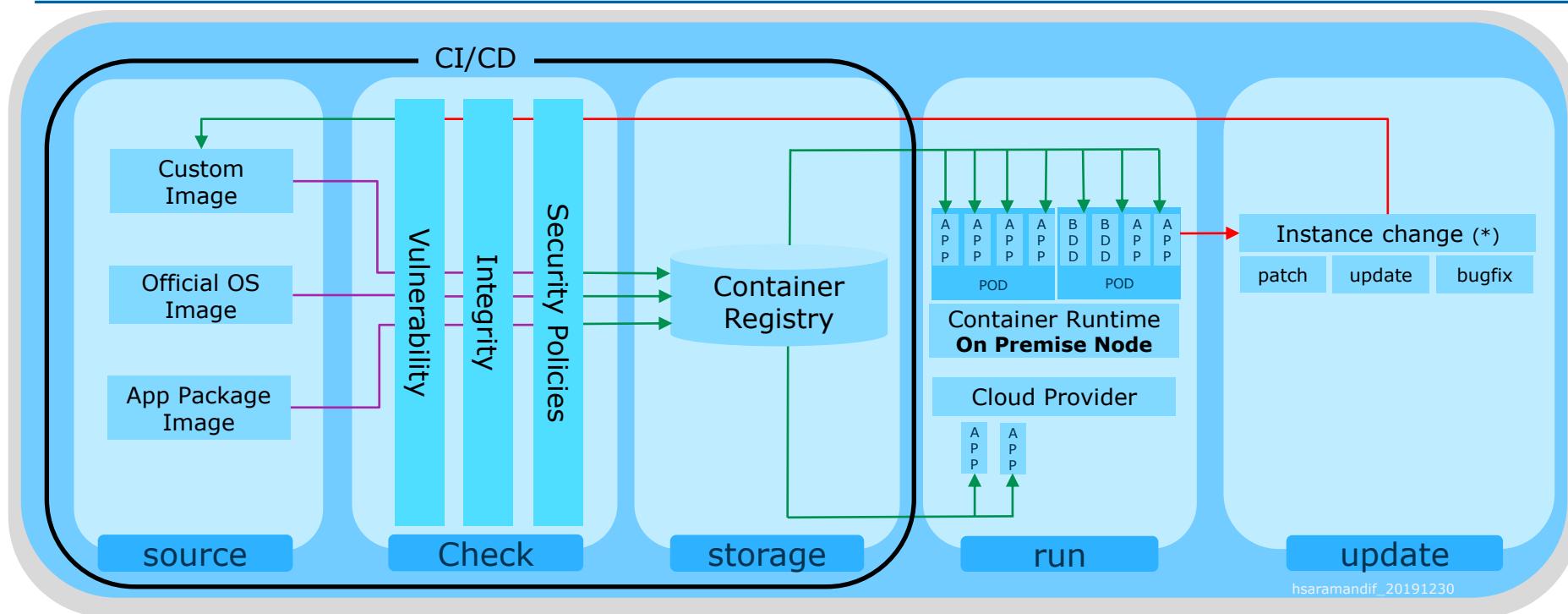
AGA : Agarik **CUS** : Customer

hsaramandif_2019126-20191231



#Image #container #Instance

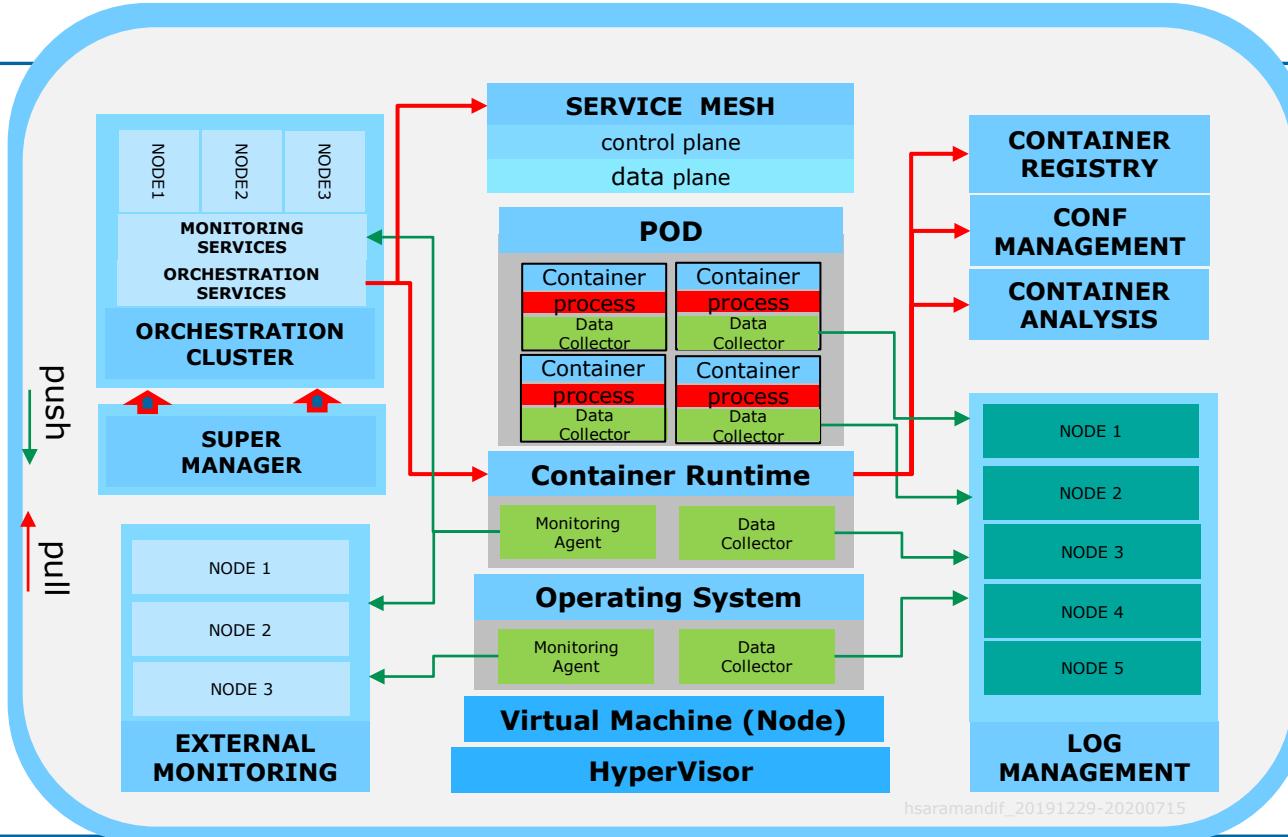
Container <->image life cycle





How does it work ?

Basic Container Infrastructure Setup



hsaramandif_20191229-20200715



What About Price List ?

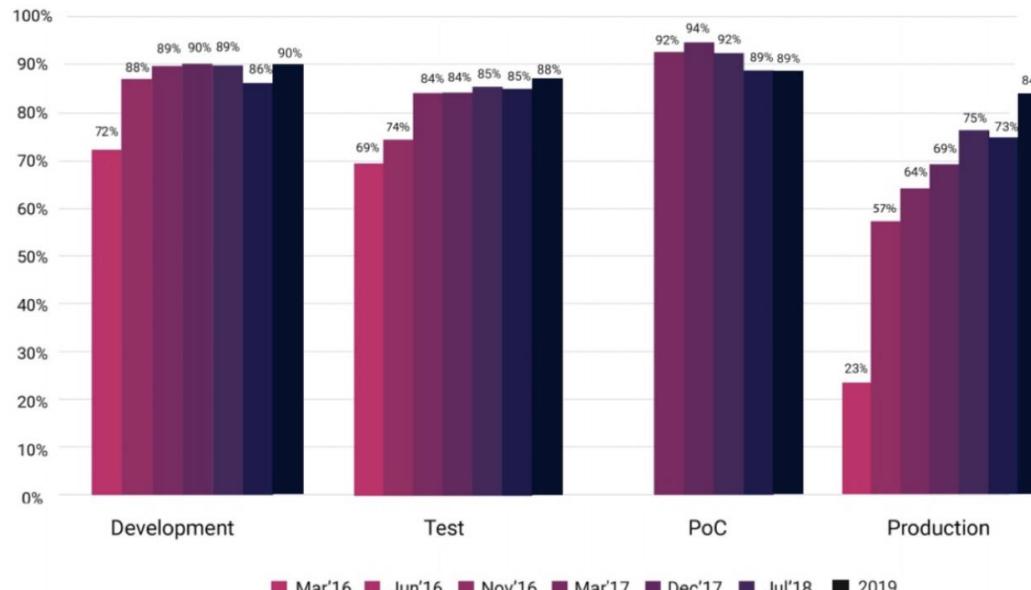
Please contact Agarik Team for Price List.

10 STATS!!

In the Real Life !!!

Container environment View

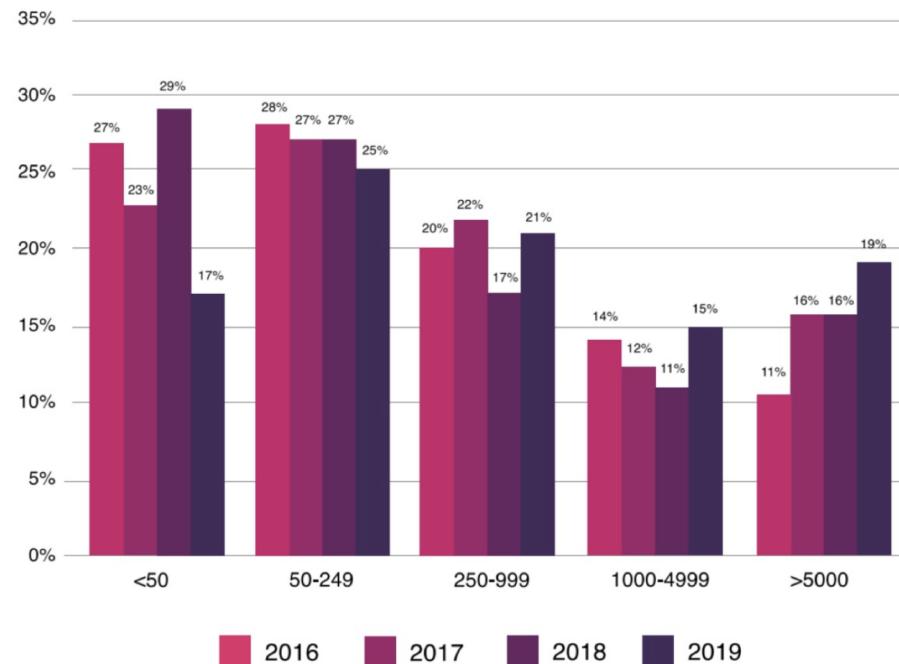
Use of Containers since 2016



Adoption des conteneurs depuis 2016 (Crédit : CNCF)

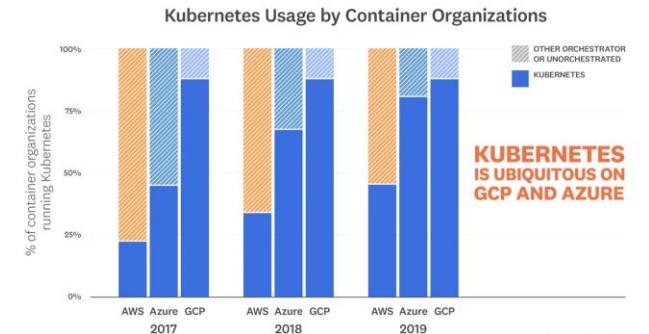
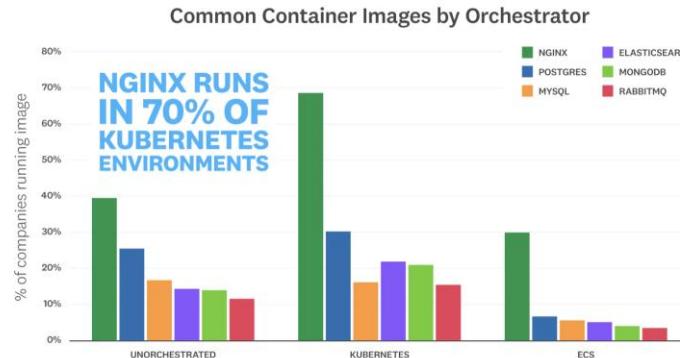
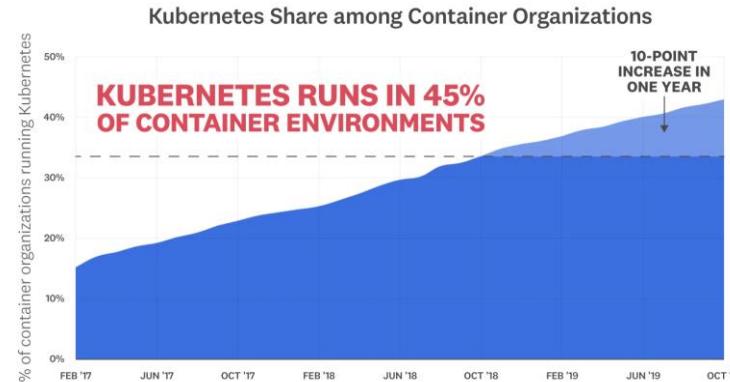
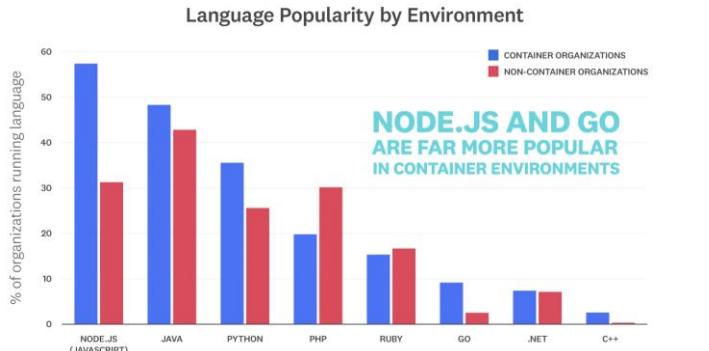
In the Real Life !!!

Number of Containers in Production



In the Real Life !!!

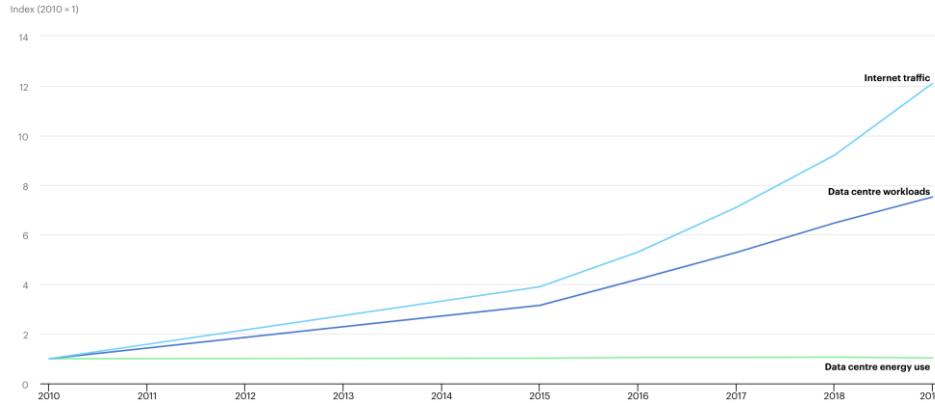
Just Stats



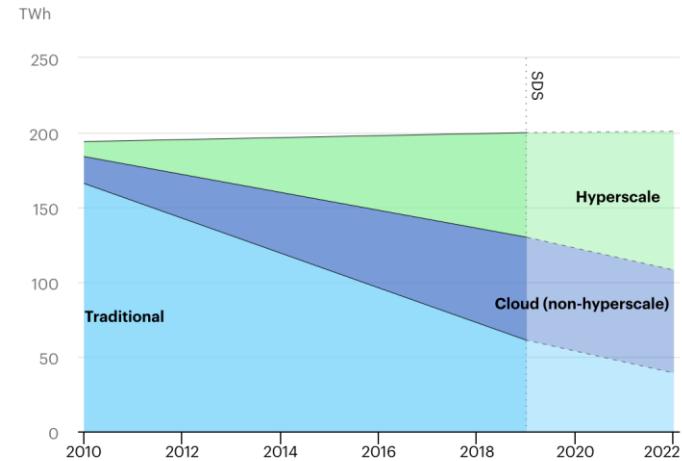
In the Real Life !!!

Is this Green !!

Global trends in internet traffic, data centre workloads and data centre energy use, 2010-2019



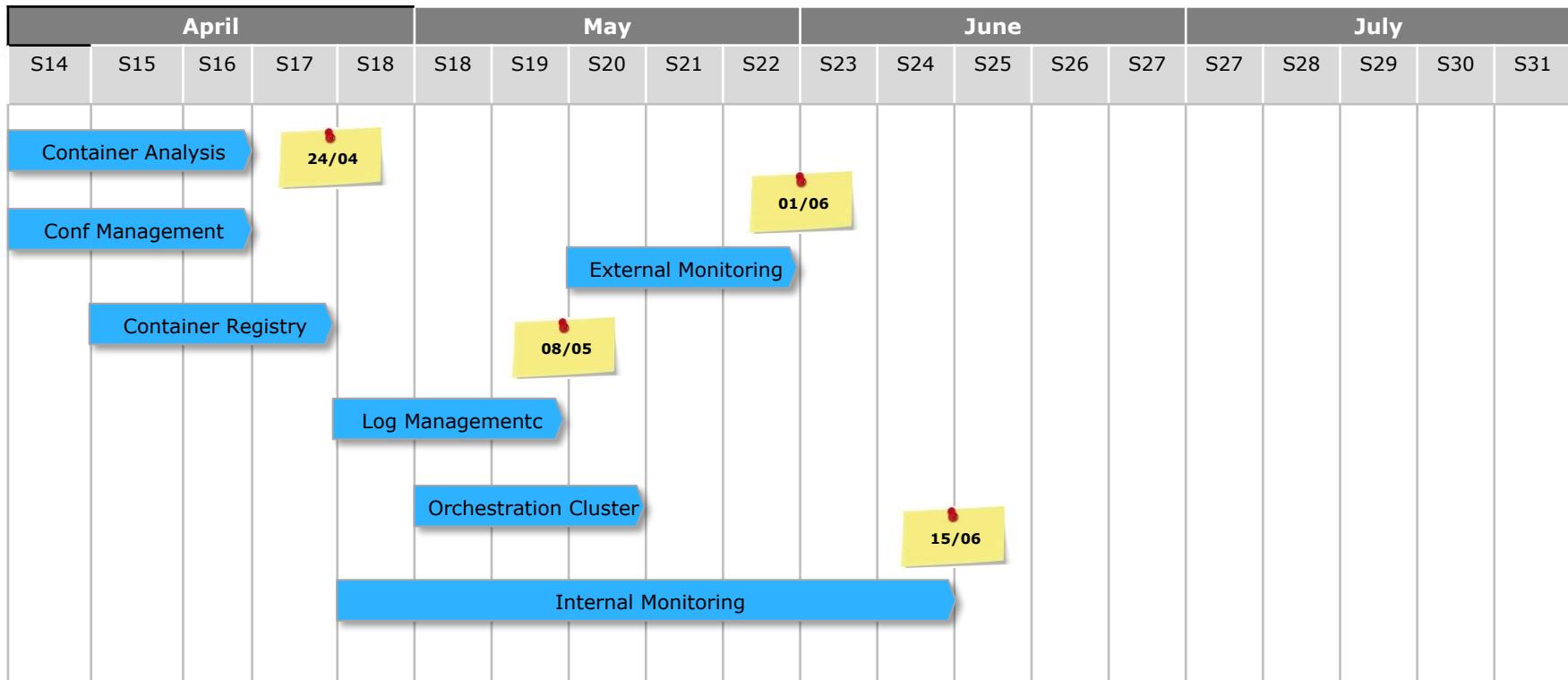
Global data centre energy demand by data centre type, 2010-2022



11

RoadMap

On the Road !!!



12

News

NEWS

DATE	ARTICLE
08/07/2020	<u>Suse to acquire Rancher</u>
01/07/2020	<u>Kubernetes Stats</u>
11/03/2020	<u>AWS BottleRocket</u>
25/02/2020	<u>Mirantis to keep Docker Swarm buzzing around, pledges new features</u>
29/08/2019	<u>VMware révolutionne le développement</u>

13 FUN

#kubernetes #devops

Required Technical and Professional Expertise

- Minimum 12+ years' experience in Kubernetes administration and management
- Hands-on experience on setting up Kubernetes platform, deploying microservices and other web applications, and managing secure secrets along with container orchestration using Kubernetes

Kubernetes



Computer application

Kubernetes is an open-source container-orchestration system for automating computer application deployment, scaling, and management. It was originally designed by Google and is now maintained by the Cloud Native Computing Foundation. [Wikipedia](#)

Written in: Go

Developed by: Cloud Native Computing Foundation

Initial release: 7 June 2014; 6 years ago

imgflip.com

Source : Reddit

Thanks

For more information please contact:

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henley.saramandif@atos.net

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