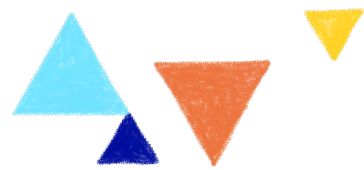


Migrate to the Cloud, ok... But how I do it in real life?

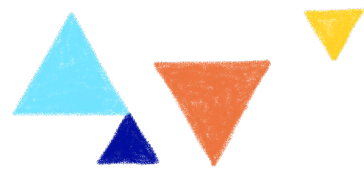
Horacio Gonzalez - @LostInBrittany



Who are we?

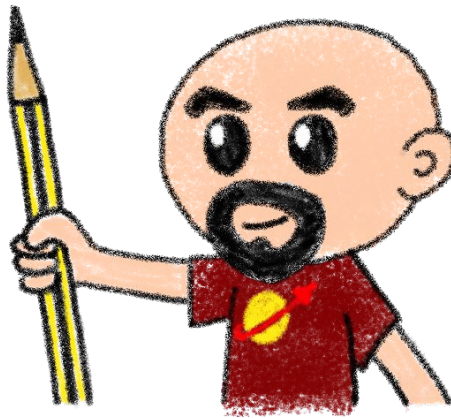
Introducing myself and
introducing ~~OVH~~ OVHcloud



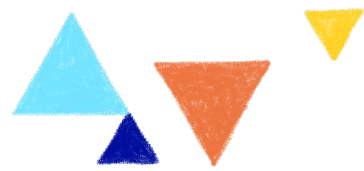


Who are we?

Introducing myself and
introducing ~~OVH~~ OVHcloud

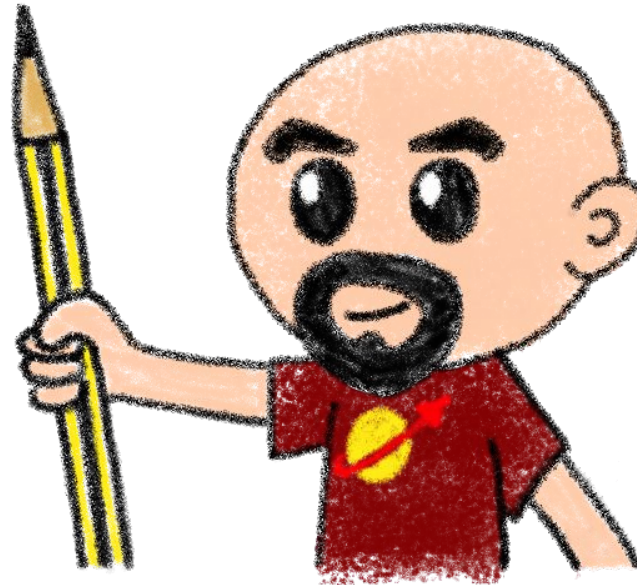


Horacio Gonzalez

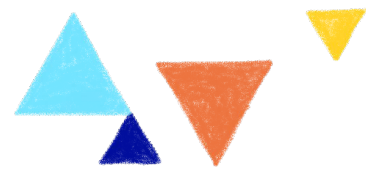


@LostInBrittany

Spaniard lost in Brittany,
developer, dreamer and
all-around geek



OVHcloud: A global leader



Web Cloud & Telecom



Private Cloud



Public Cloud



Storage



Network & Security



30 Data Centers
in 12 locations



34 Points of Presence
on a 20 TBPS Bandwidth Network



2200 Employees
worldwide



115K Private Cloud
VMS running



300K Public Cloud
instances running



380K Physical Servers
running in our data centers



1 Million+ Servers
produced since 1999



1.5 Million Customers
across 132 countries



3.8 Million Websites
hosting



1.5 Billion Euros Invested
since 2016

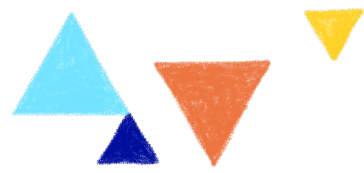


P.U.E. 1.09
Energy efficiency indicator



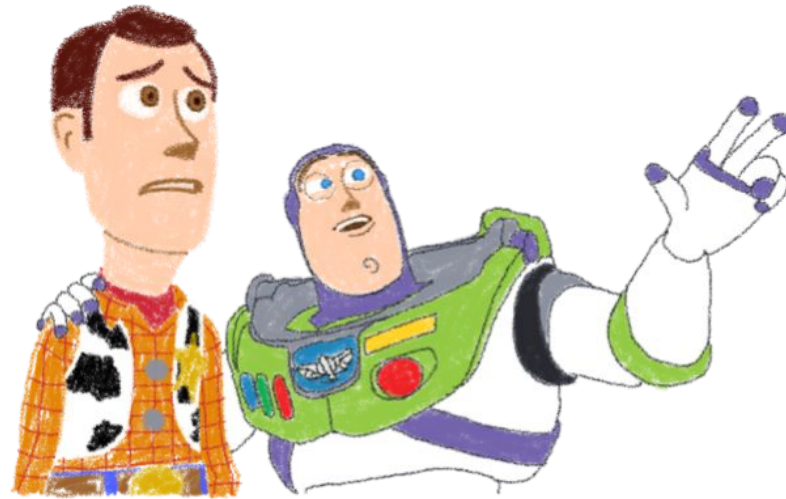
20+ Years in Business
Disrupting since 1999





Go Cloud, young person!

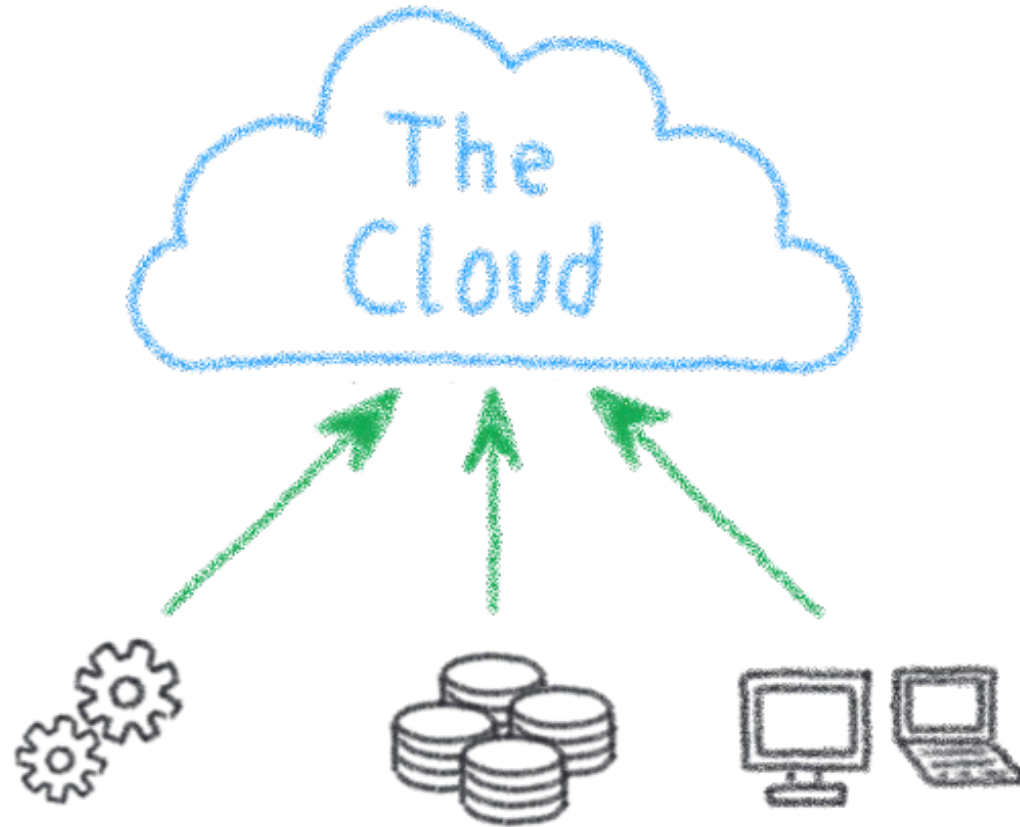
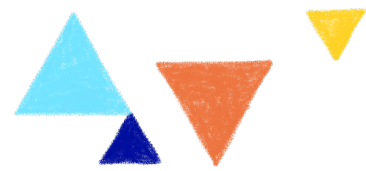
Beware of broad call to action...



CLOUDS EVERYWHERE



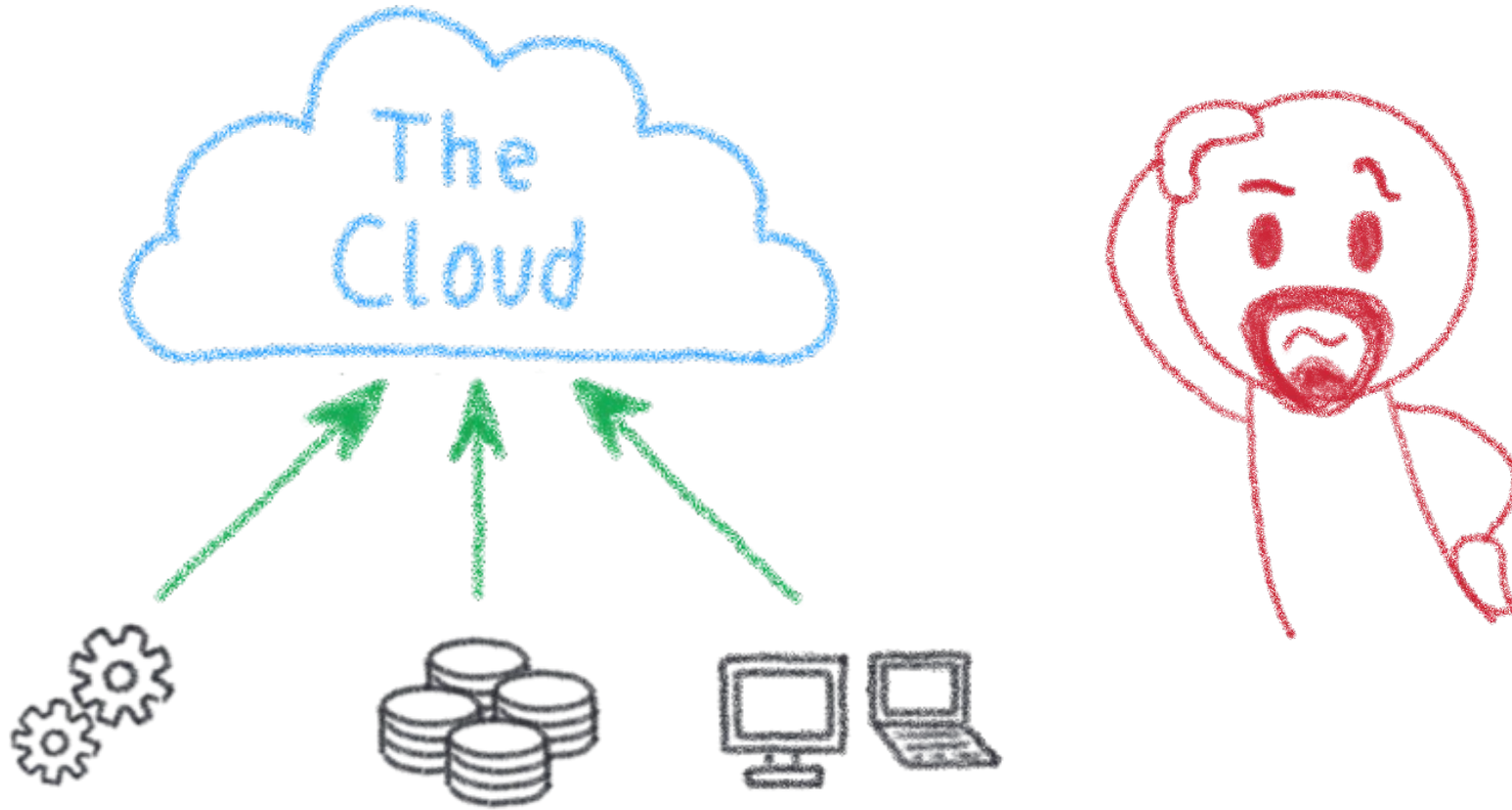
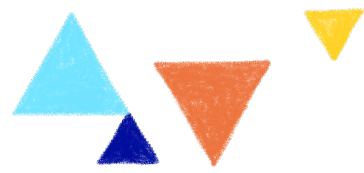
A global injunction: migrate to the Cloud



Everybody pushes to the Cloud



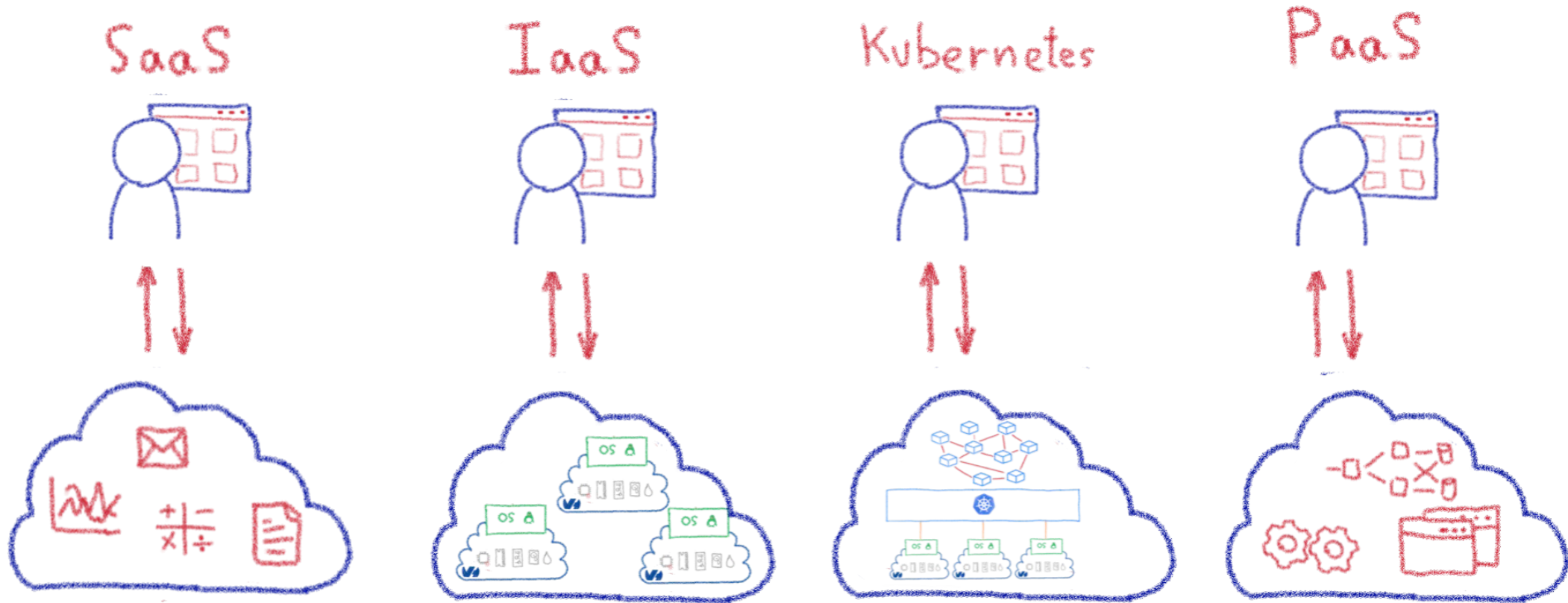
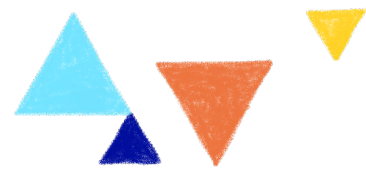
But how to do it?



Is there a one-size-fits-all solution?



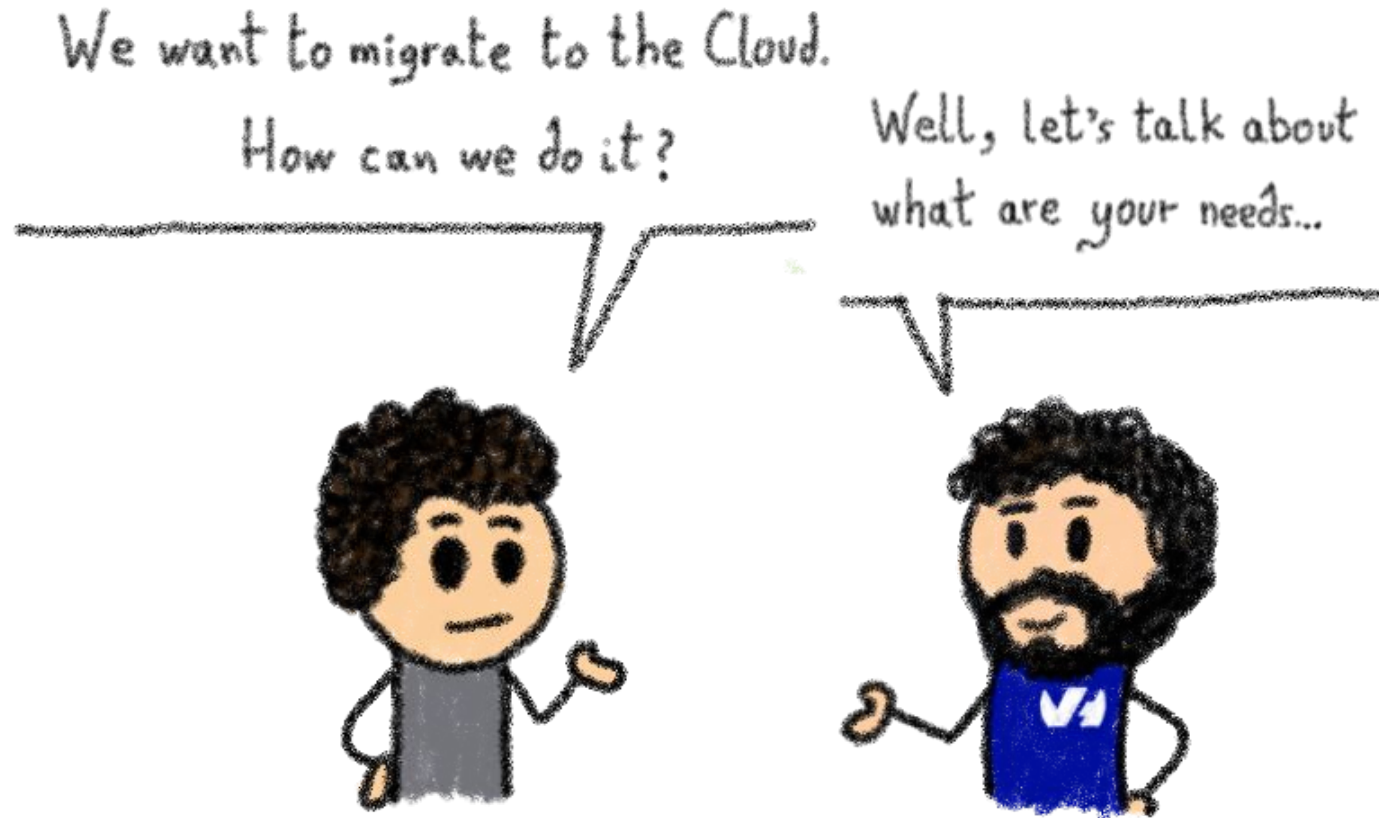
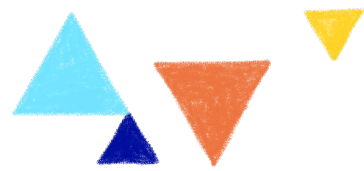
Cloud means different things to different people



Different contexts, different needs, different maturities...



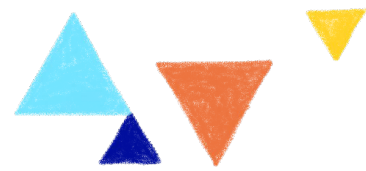
How can I go to the Cloud?



The best answer is *"It depends..."*



Every organisation is now producing software



Mid-size tech



Large tech



Corporate



SME

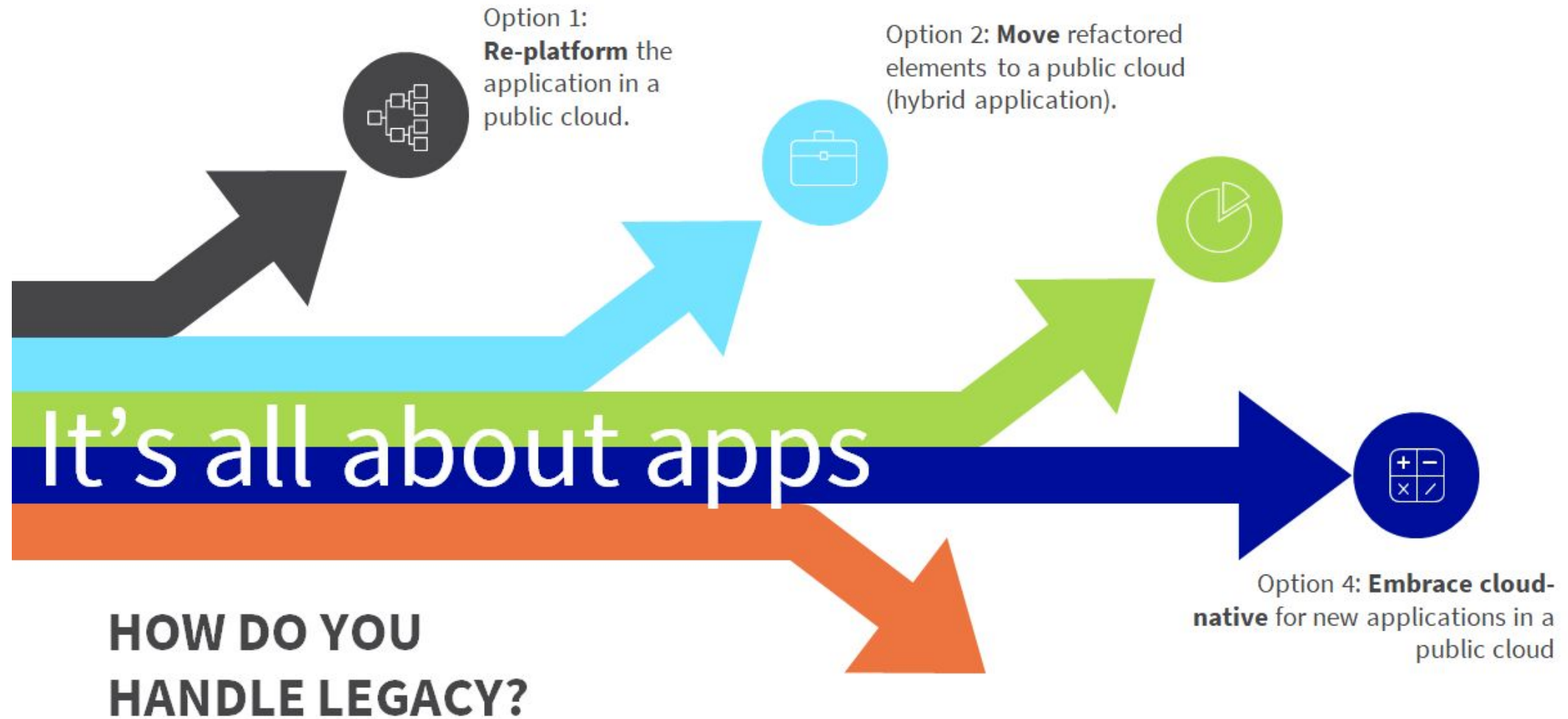
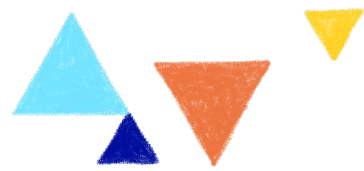


Gov

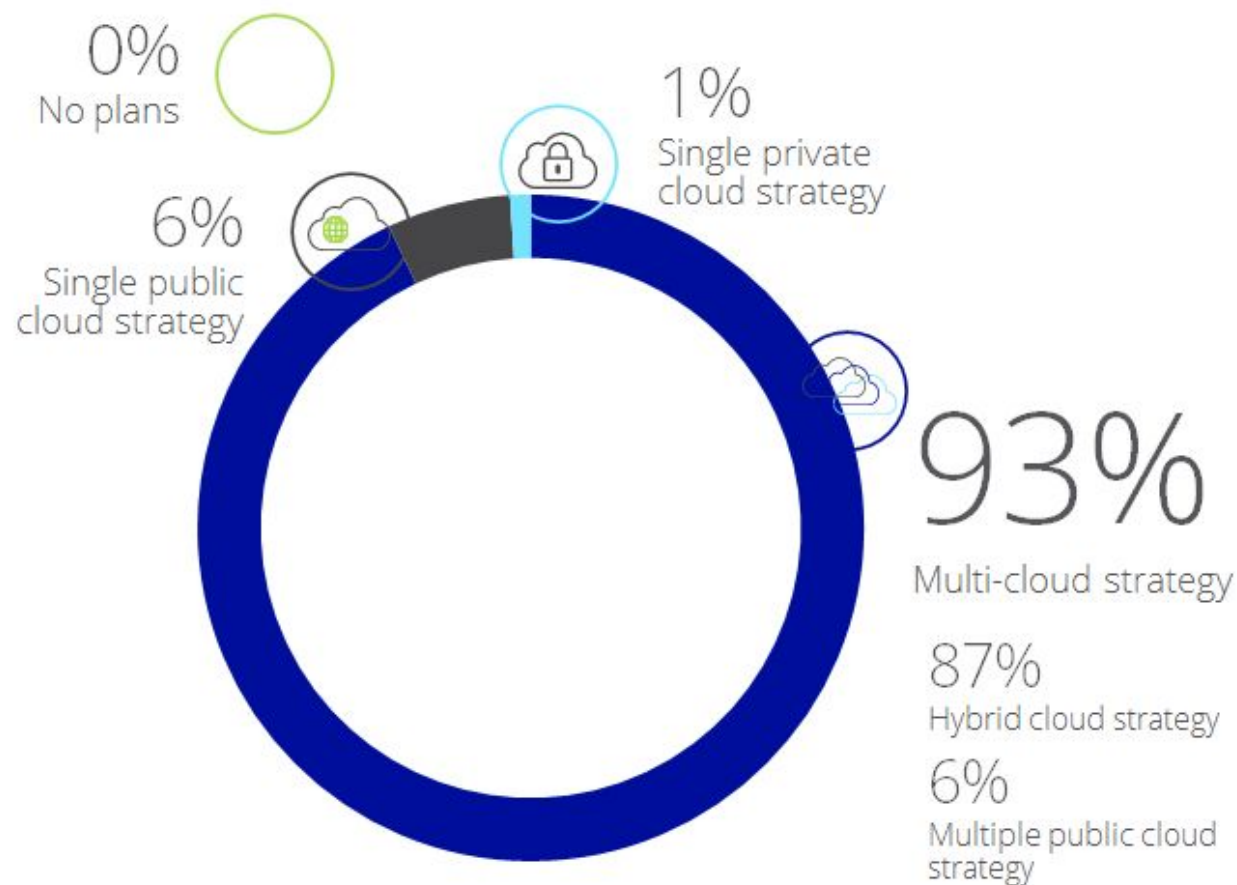
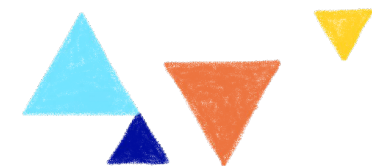
And their challenges are similar yet very different



There are 5 main strategies



What do they expect from the Cloud?



TOP BENEFITS EXPECTED

01

Multi-cloud offers better IT **cost** management

02

Multi-cloud improves IT infrastructure management and **flexibility**

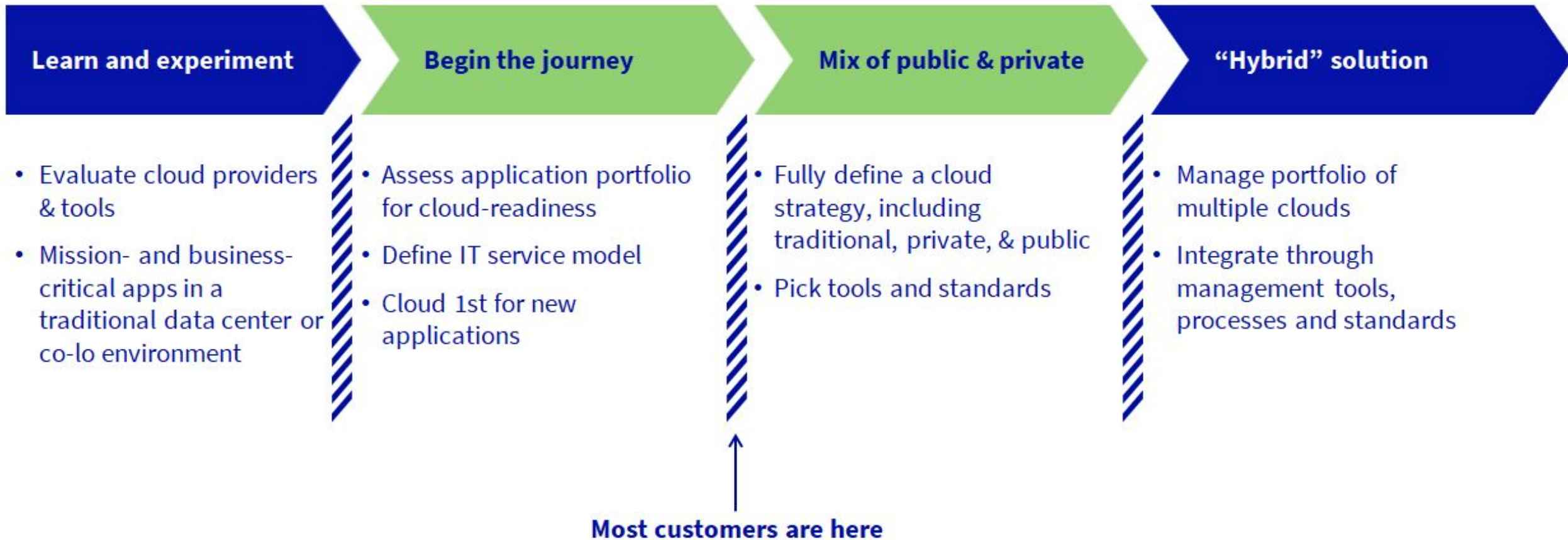
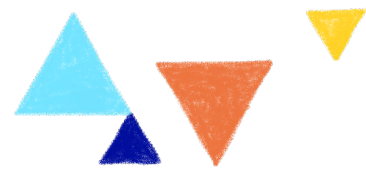
03

Multi-cloud Improves **security** and **compliance**

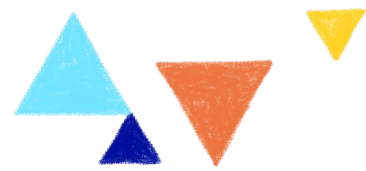
Enterprise cloud tech decision-makers (organizations with 1000+ employees).
Source: Flexera (RightScale) 2020 State of the Cloud Report



Where are they in the travel to the Cloud?



Our approach to this cloud migration



Ensure reliability of infrastructure for cloud applications

Orchestrate resources with automation to serve applications

Extract knowledge and insights out of data to create business value



SME



Gov



Corporate



Mid-size tech

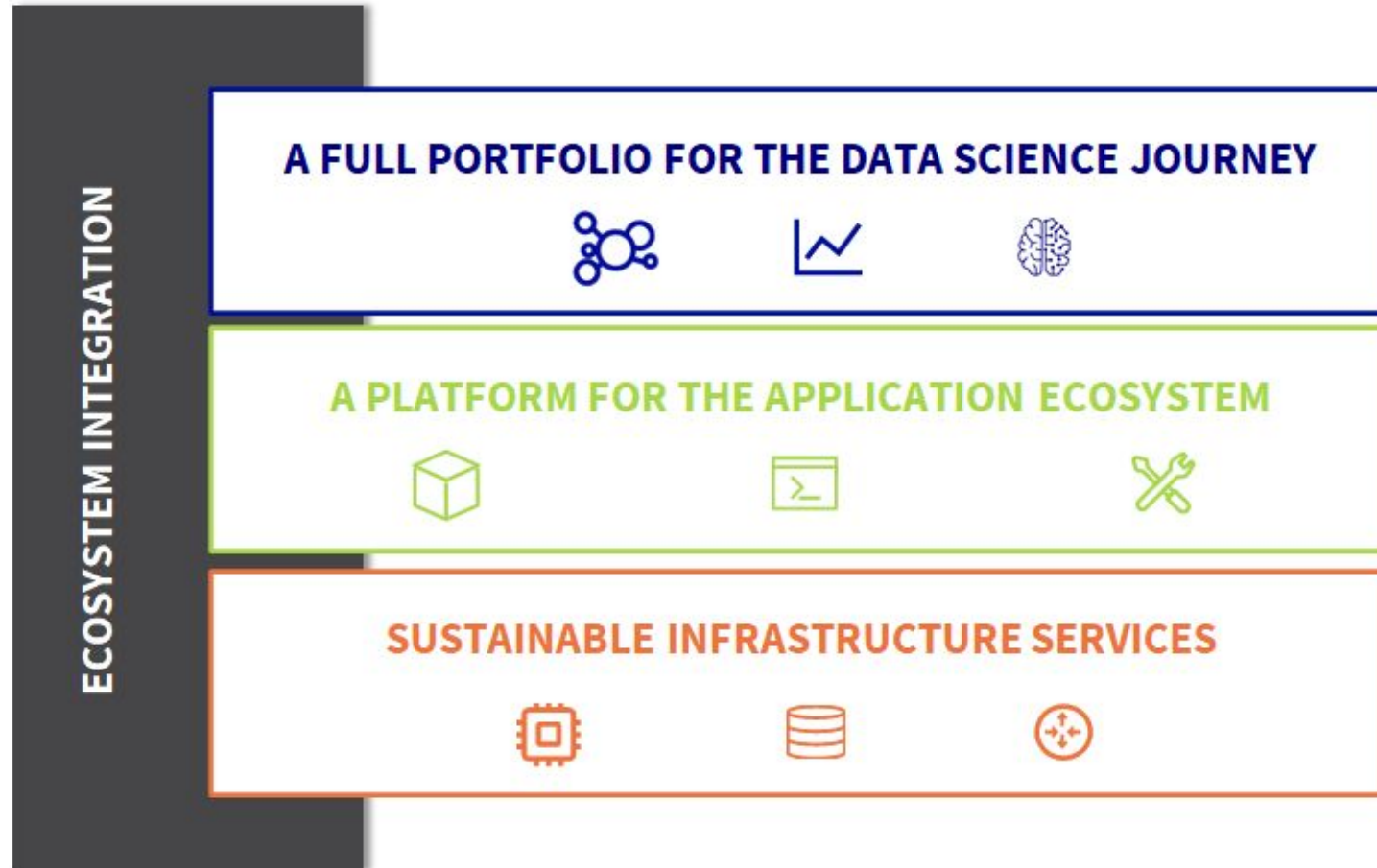
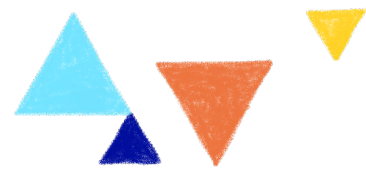


Large tech

Three broad categories according to maturity



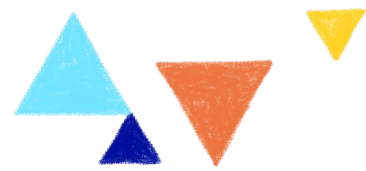
And we try to address the try categories



With products fitting the different use cases

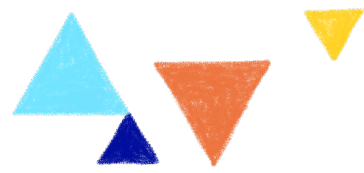


Hey, dude, you promised us some examples



Time to begin telling stories!



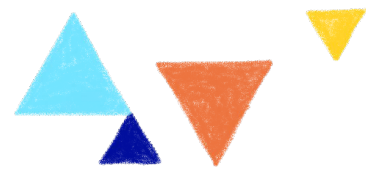


The e-commerce site

Small infra but critical



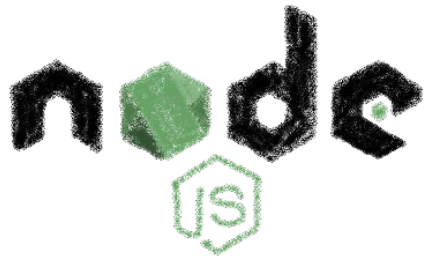
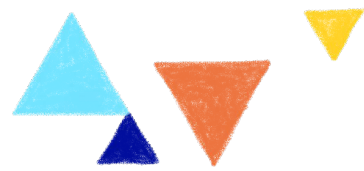
A simple webapp infrastructure



- Platform with webapps, CMS, e-commerce
- 20k users per month



Their Cloud: an IaaS solution



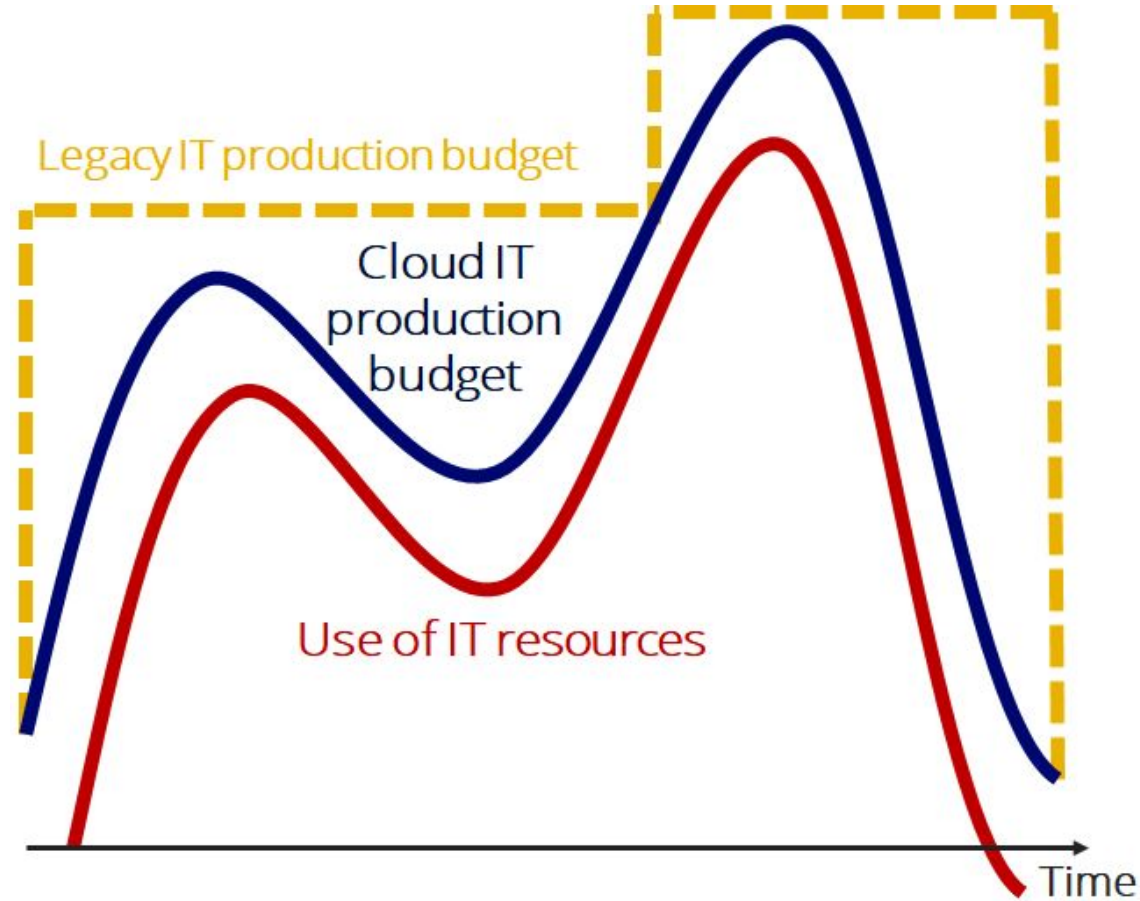
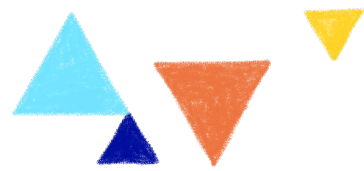
Instances
Block storage
Object storage
Cloud archive
Volume snapshot
Instance Backup
Load balancer
Private Network (vRack)
AntiDDoS
Virtual router
Horizon
Openstack CLI



Using our Openstack based Public Cloud

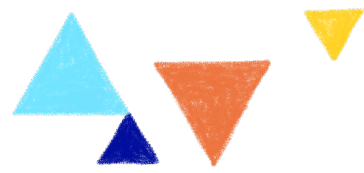


What did they gain?



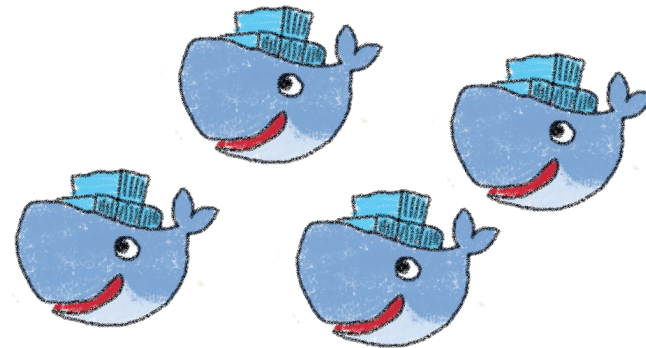
Better use of resources





Microservices and containers

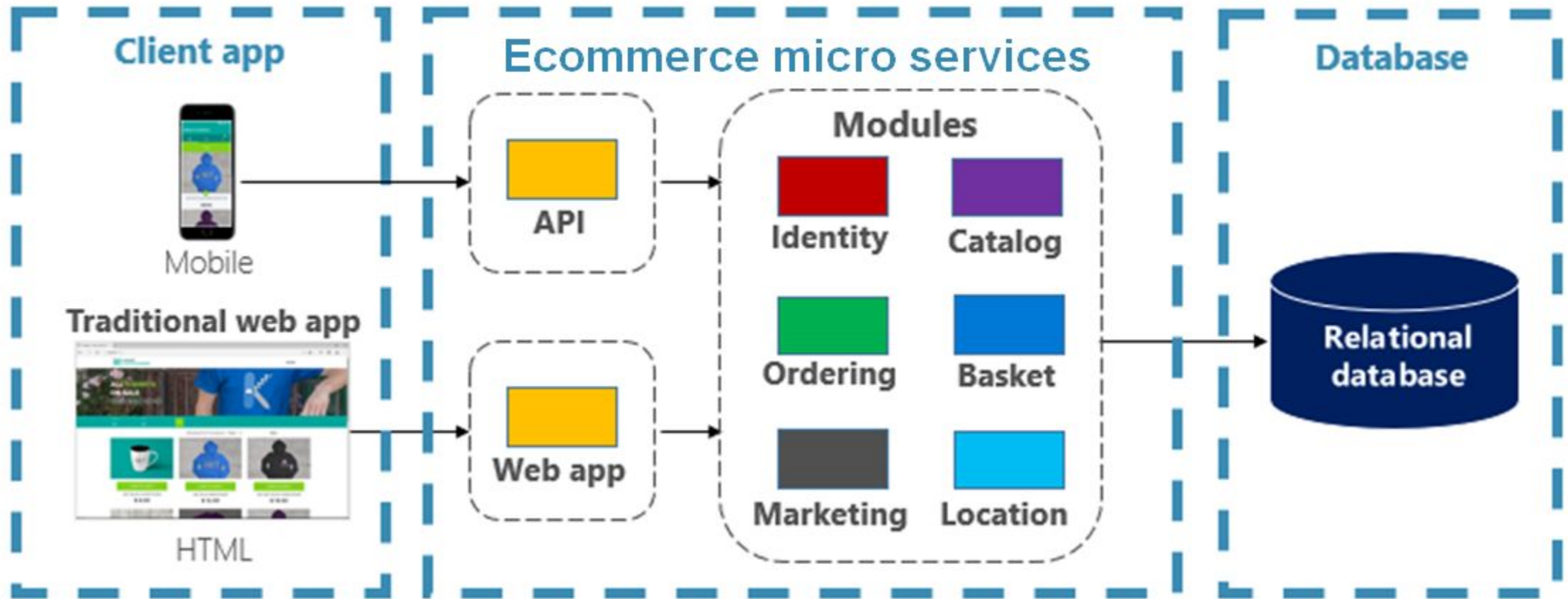
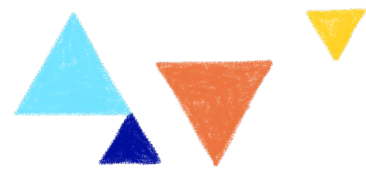
The Cloud Native company



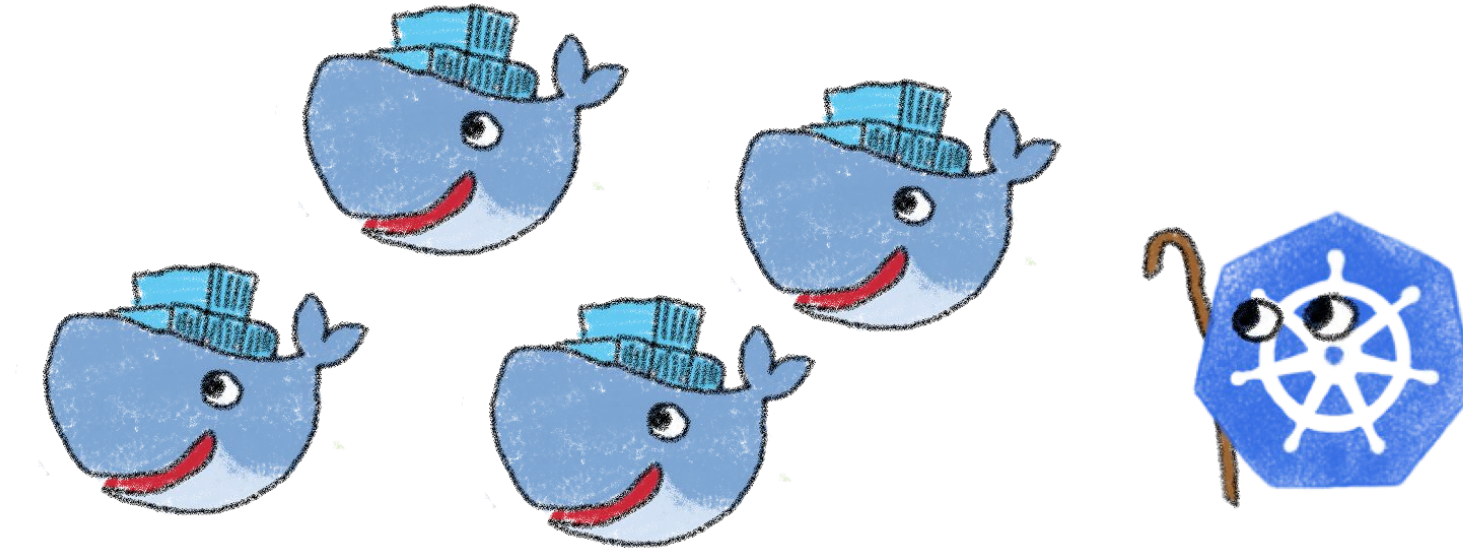
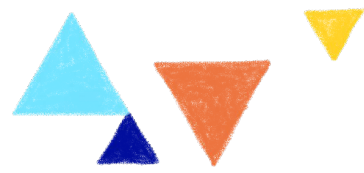
kubernetes



An e-commerce microservices architecture



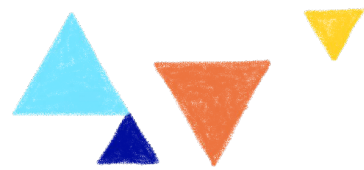
Already in Cloud Native architecture



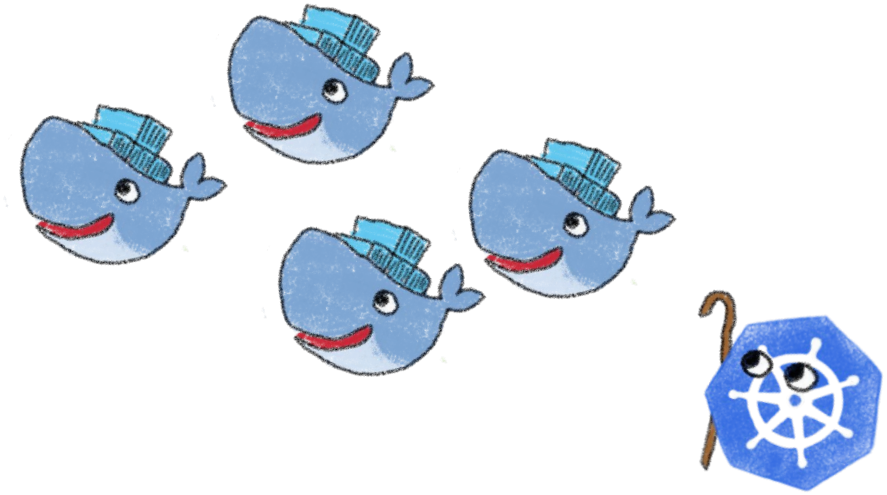
They began with Docker, then Kubernetes, all by themselves



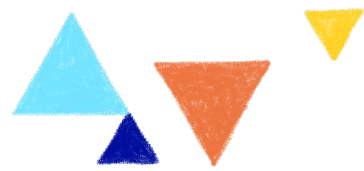
They wanted to go to the cloud



I have an agile team,
they like the cloud, the
containers, the CNCF



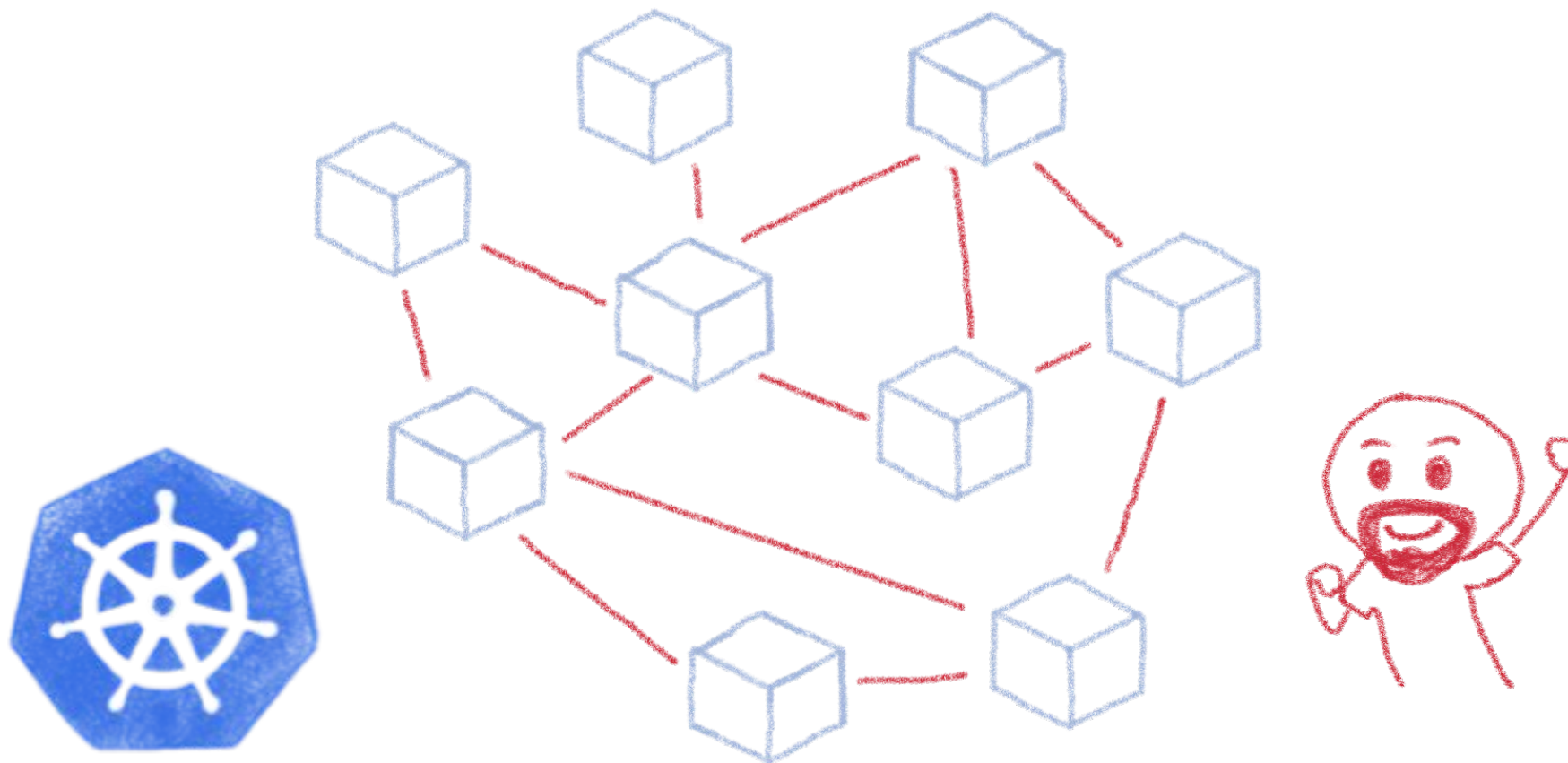
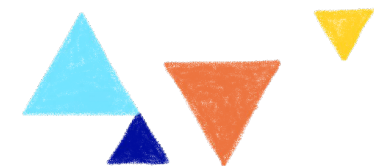
A Cloud Native cloud



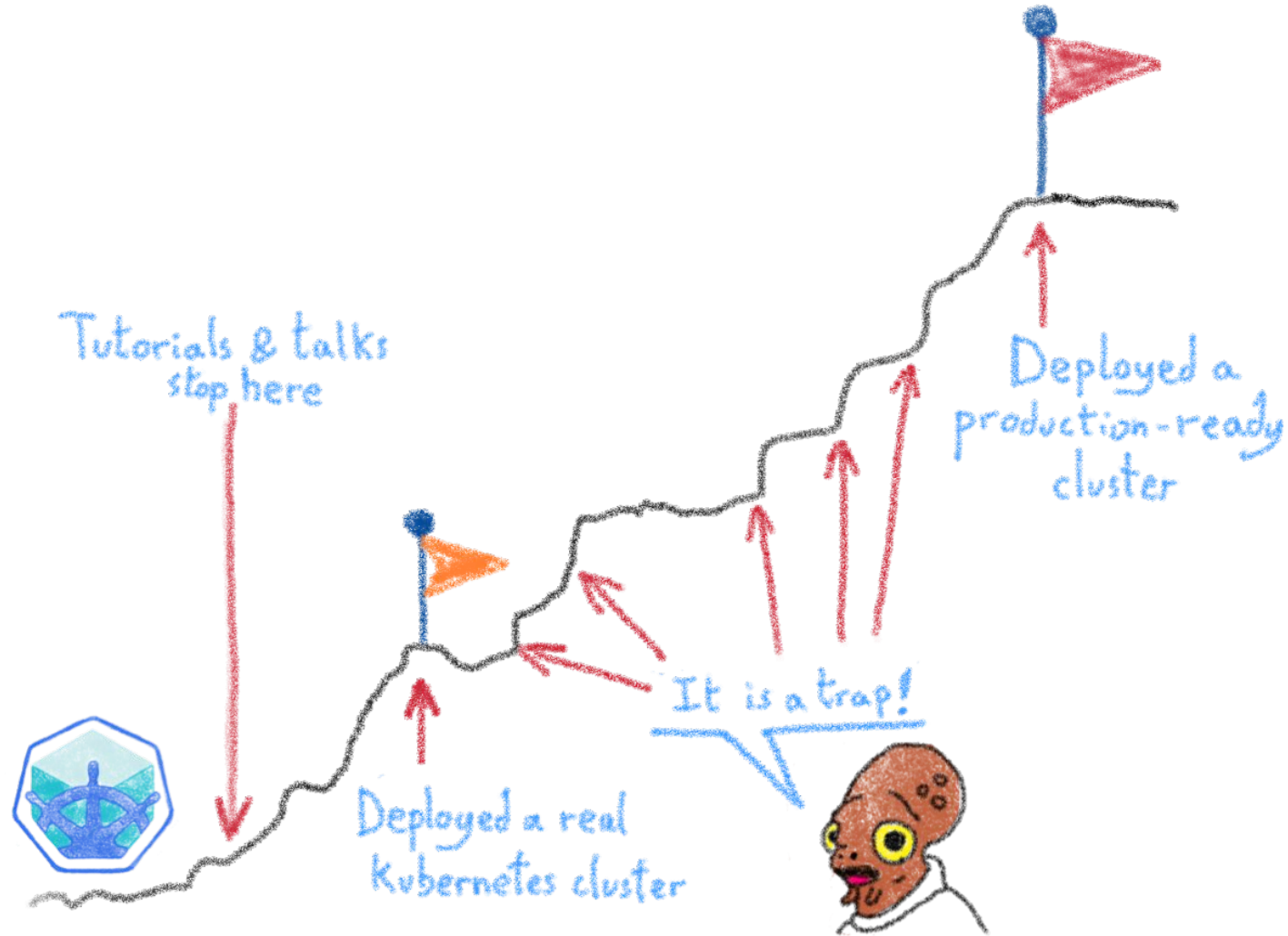
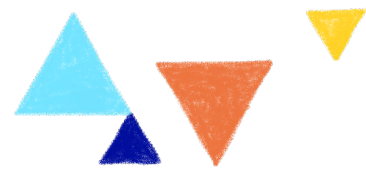
Then you can deploy it
over our Managed Kubernetes
and Managed Private Registry



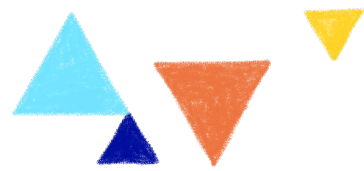
Kubernetes can be wonderful



But it comes with a price...



There are 3 main roles around Kubernetes



Cluster
operator



Cluster
administrator

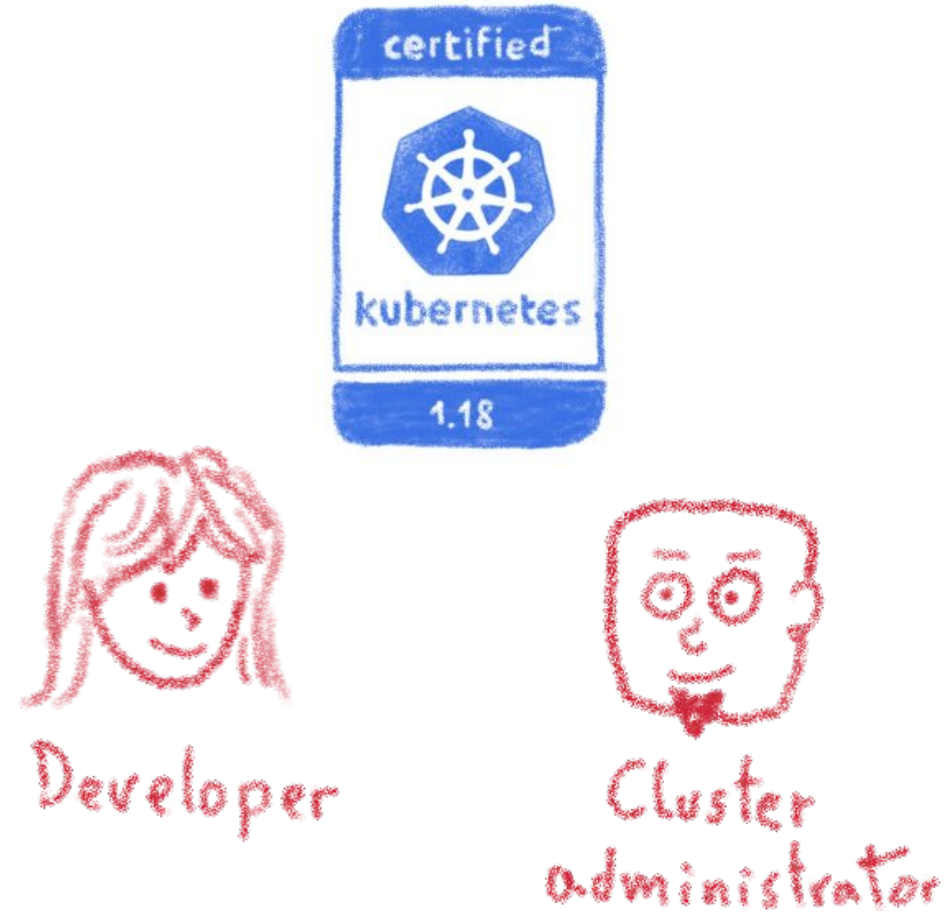
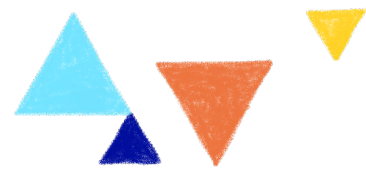


Developer

Each role asks for very different
knowledge and skill sets

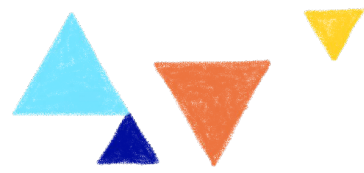


Going to a Managed Kubernetes simplifies it



As they don't build and rack their own servers!



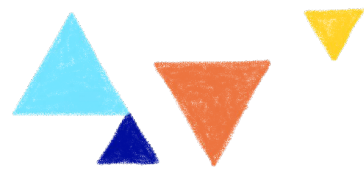


The small bank

With its Mainframe



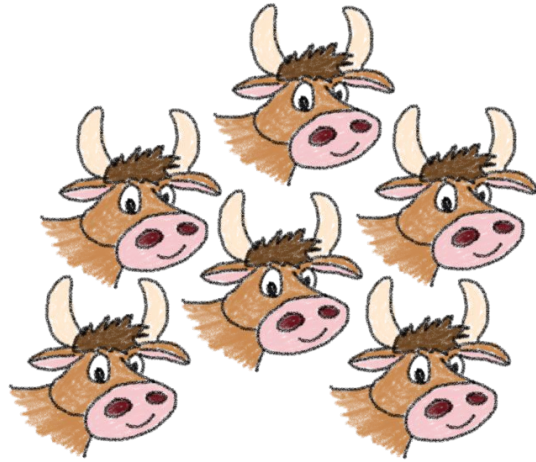
Most banks still use Mainframes



With code written decades ago...



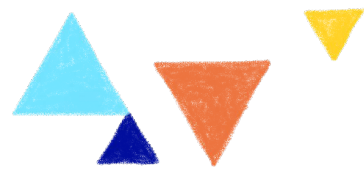
And lots and lots of Java code...



And the tooling infra-as-code written around it



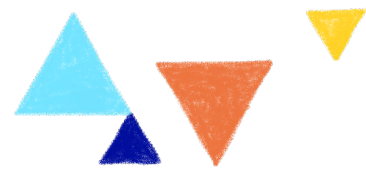
Step by step to the Cloud



An hybrid cloud approach
Several new projects in the Cloud, legacy on premises



But what about sensitive data?



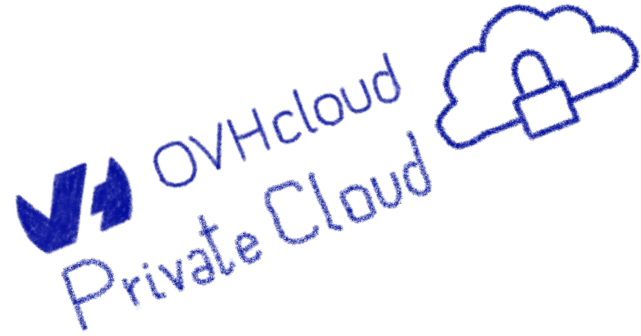
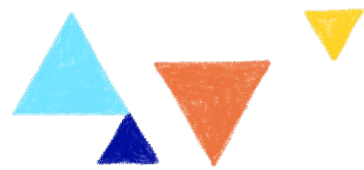
We work with sensible data,
we store medical information,
we need lots of ISO-9xxx
certifications




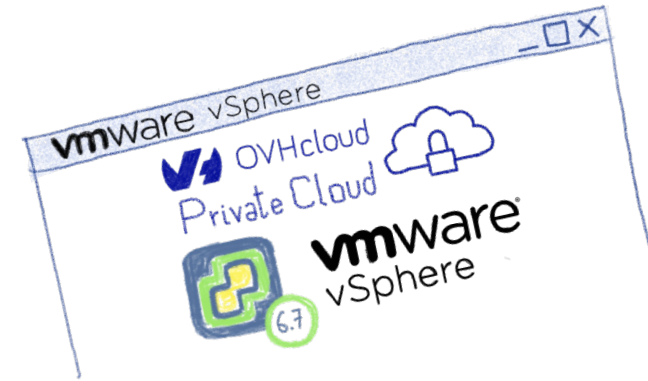
Banking and insurance regulations



Hosted Private Cloud



Then you can deploy on our
OVHcloud Private Cloud
built over  **vmware**,
with all the certifications you need



Your own dedicated cloud



