



# YrCloud: Your Cloud-driven datacenter

Why?



Cloud Computing  
is used for  
**Deployment**  
**Maintenance**  
**Scaling**



**IT Pro**



Cloud Computing  
is used for  
**Machine Learning**  
**Data Mining**



**Software  
Developer**

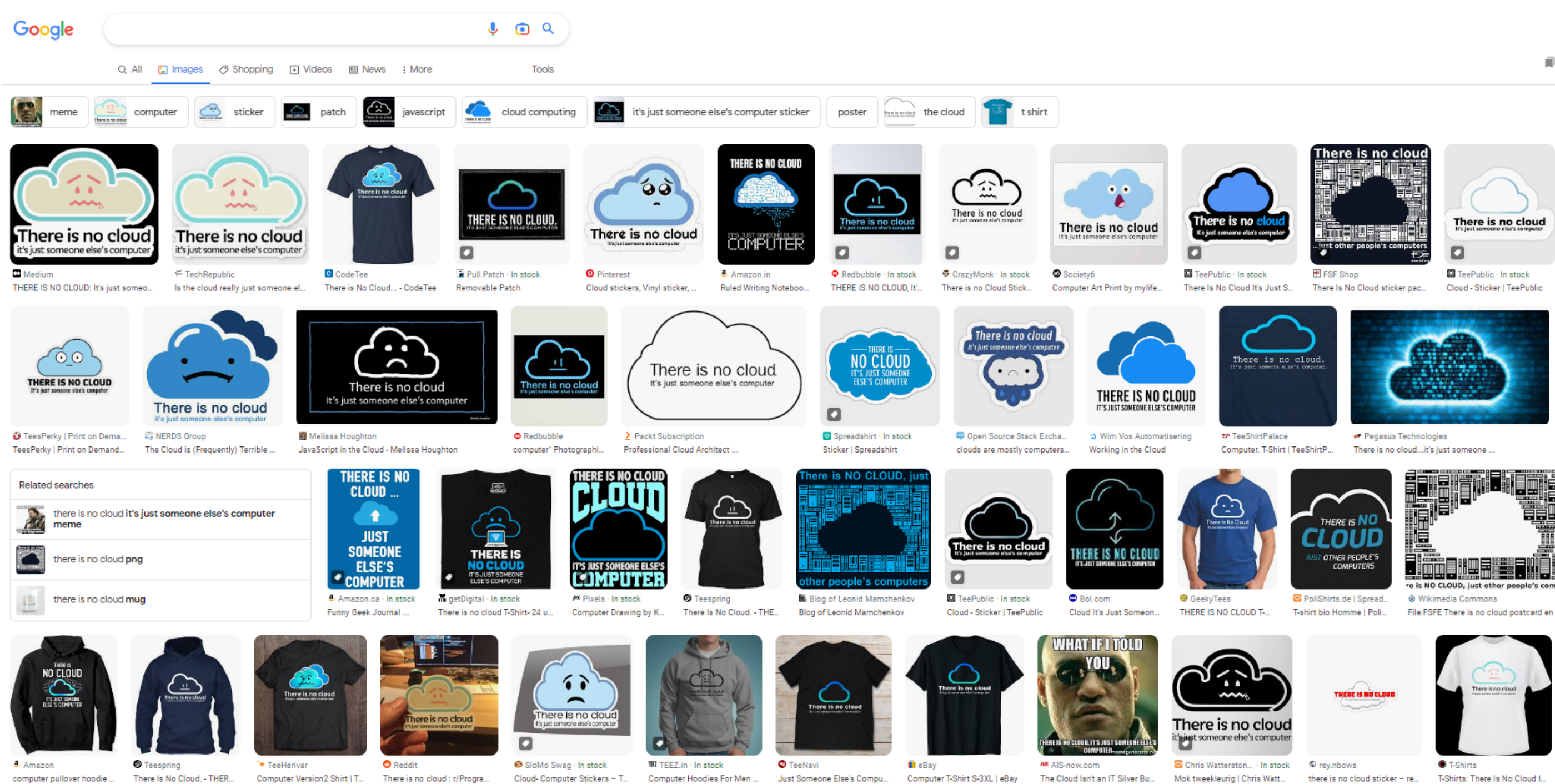


Cloud Computing  
is used for  
**Reducing Costs**  
**Outsourcing IT**



**CIO**

# There is no cloud, it's just someone else's computer

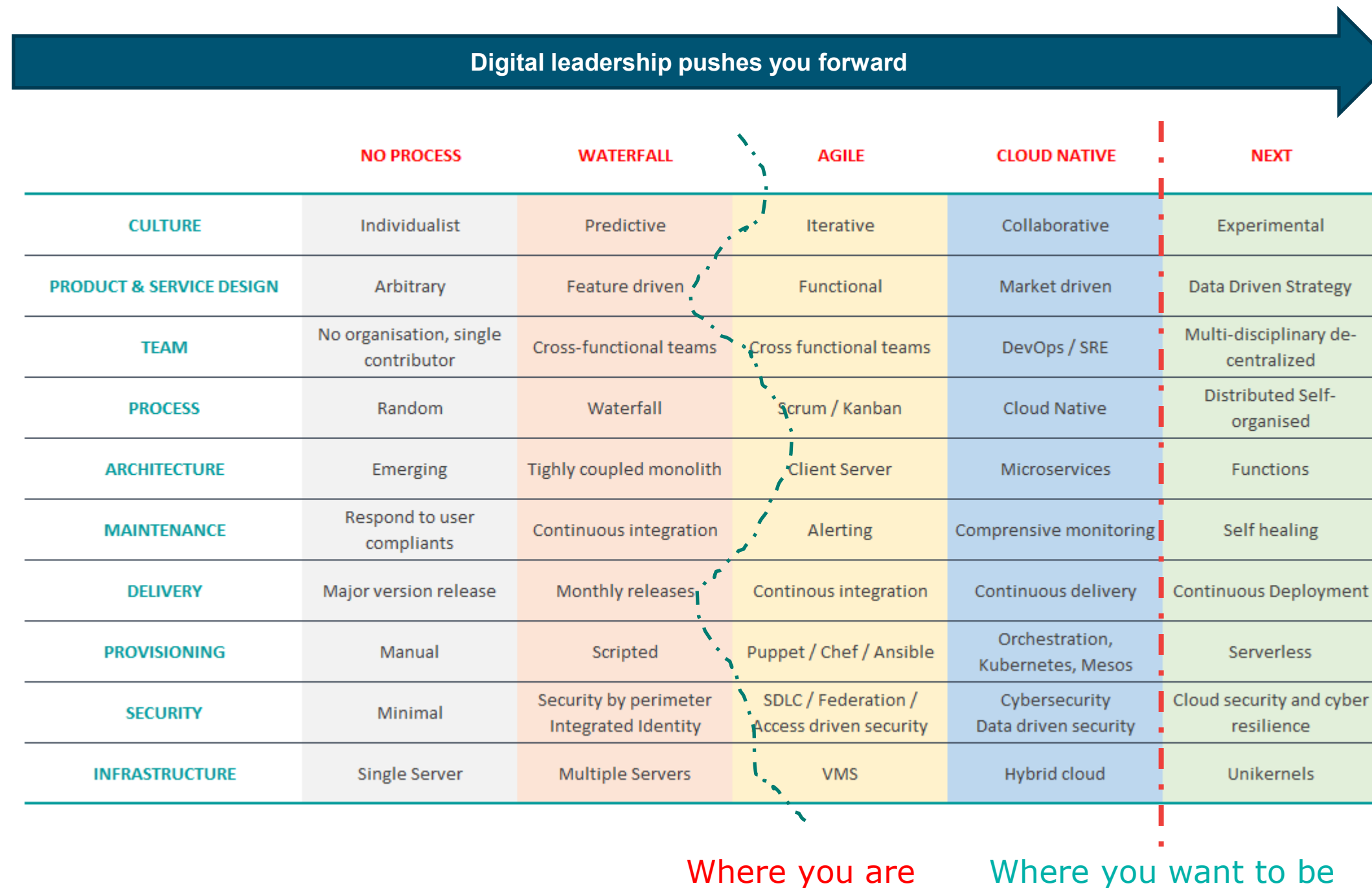


Just kidding of course...

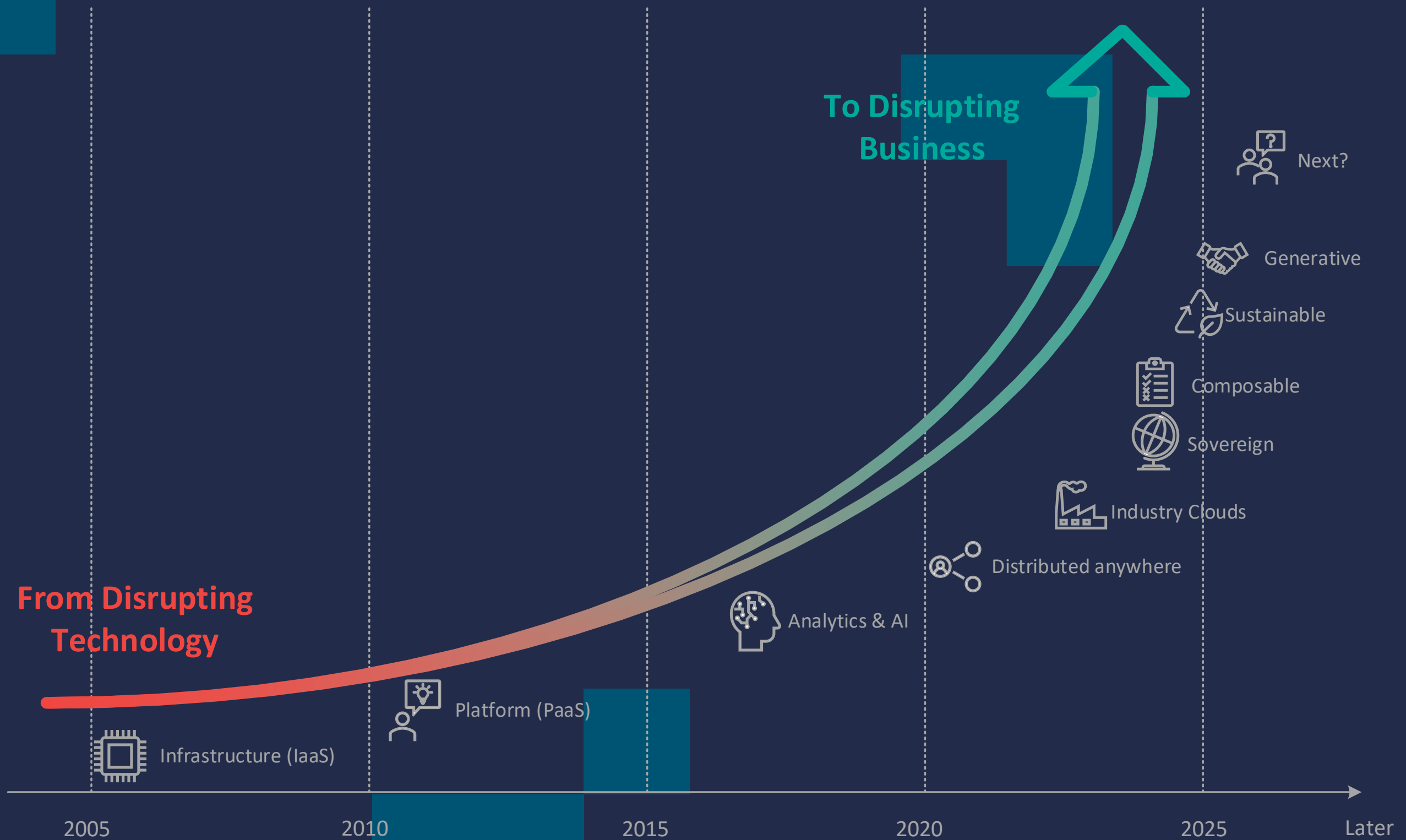
And completely missing the point!

**Cloud** is not just about technology. It is the **delivery fabric** for the **digital age**.

# Cloud(-native) as a catalyst for innovation

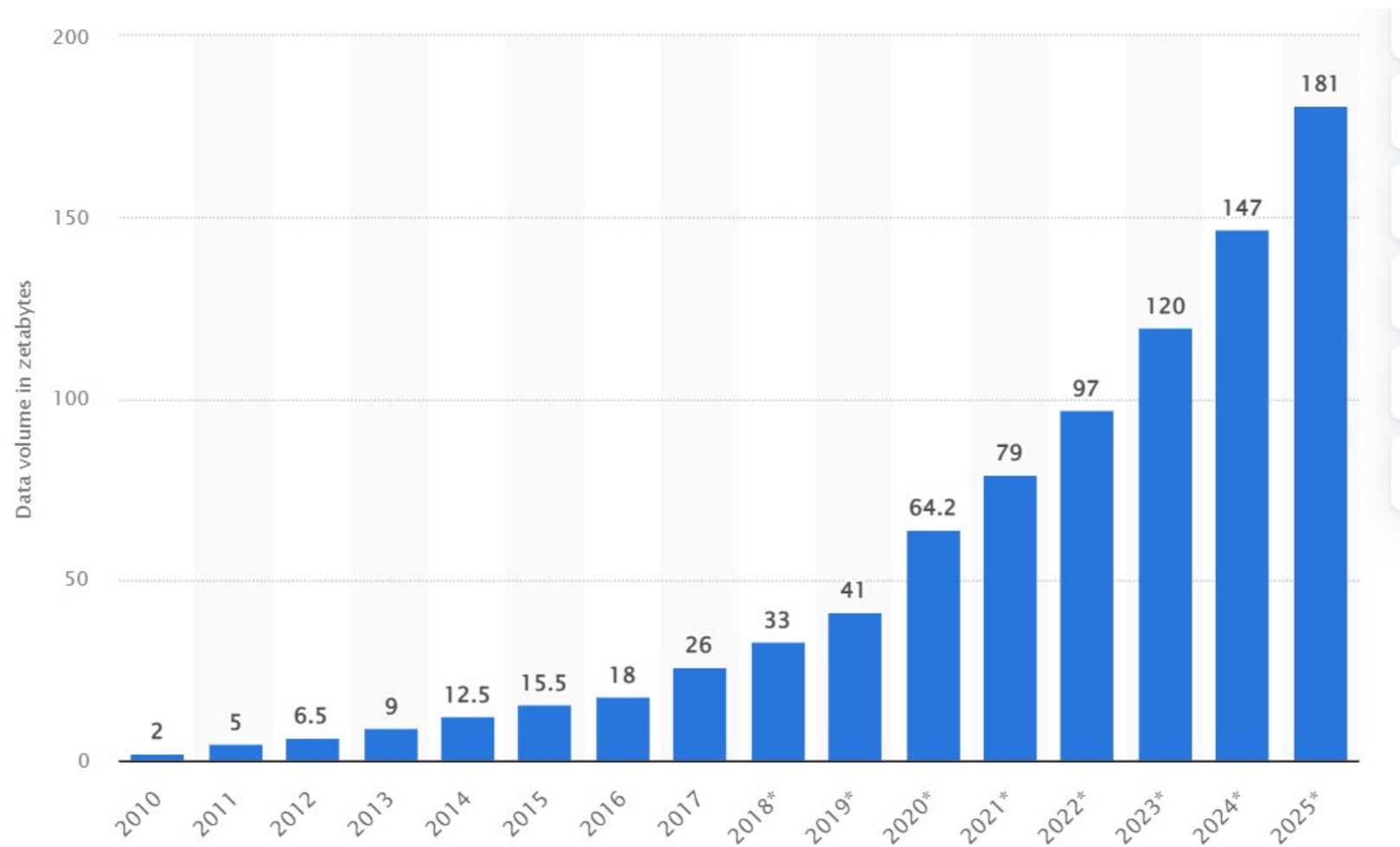


# IT is evolving...



# With new expectations...

Evolution of data



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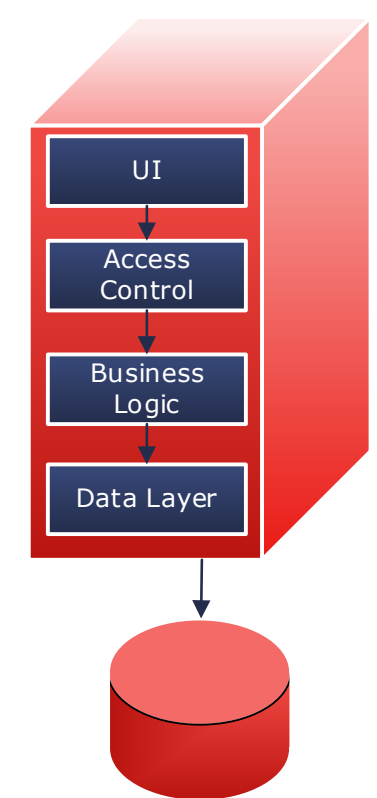
Expectations of the business



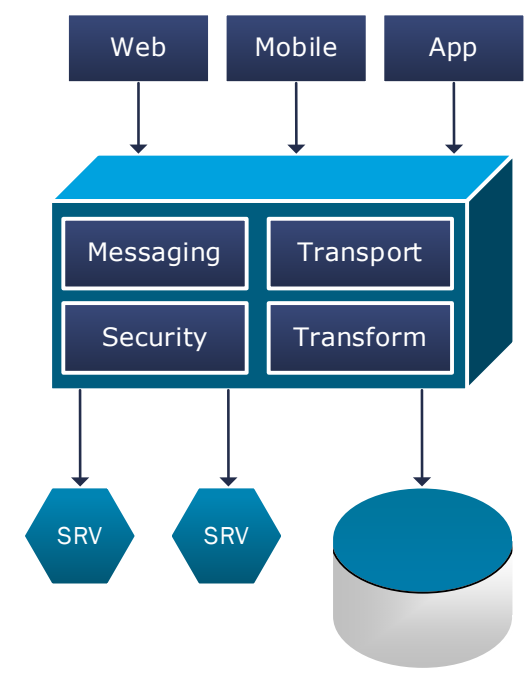


# ...Requiring new ways of architecting software...

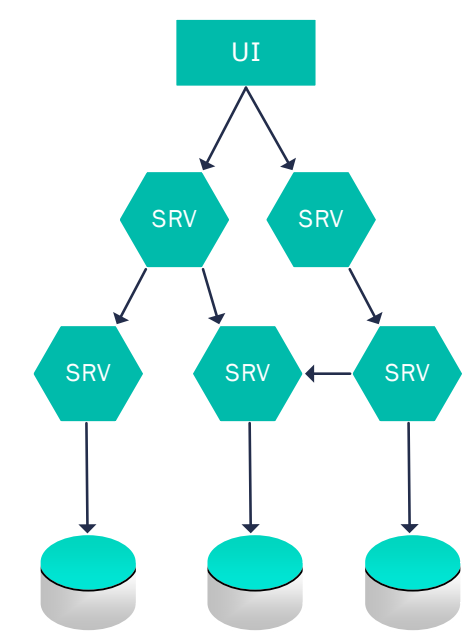
## The evolution of Software Architectures



**Monolithic**



**Service-Oriented**



**Microservices**

### THE EVOLUTION OF SOFTWARE ARCHITECTURE

#### 1990's

SPAGHETTI-ORIENTED ARCHITECTURE (aka Copy & Paste)



#### 2000's

LASAGNA-ORIENTED ARCHITECTURE (aka Layered Monolith)



#### 2010's

RAVIOLI-ORIENTED ARCHITECTURE (aka Microservices)

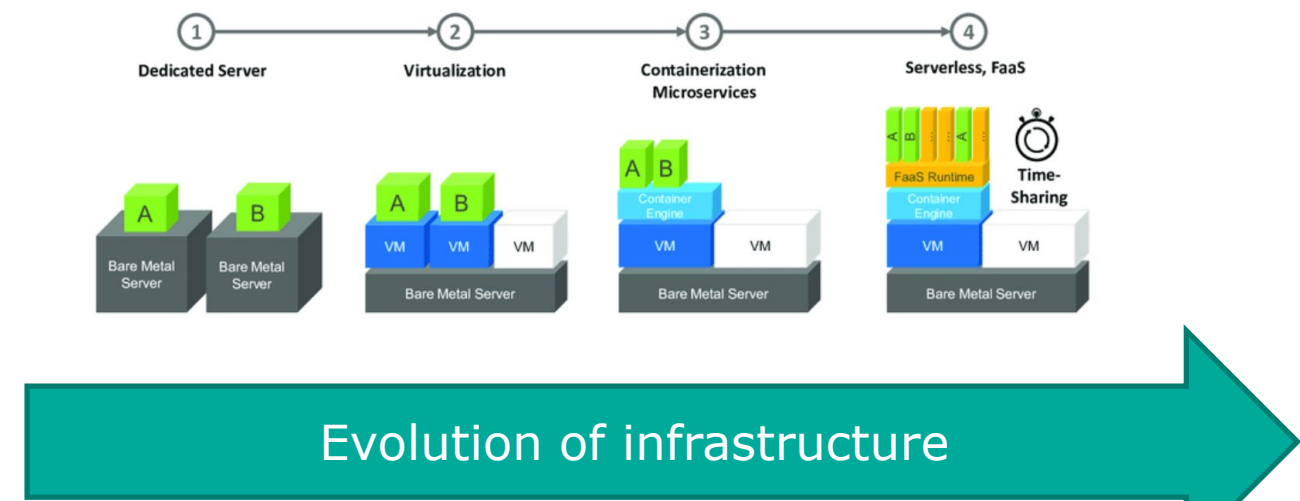
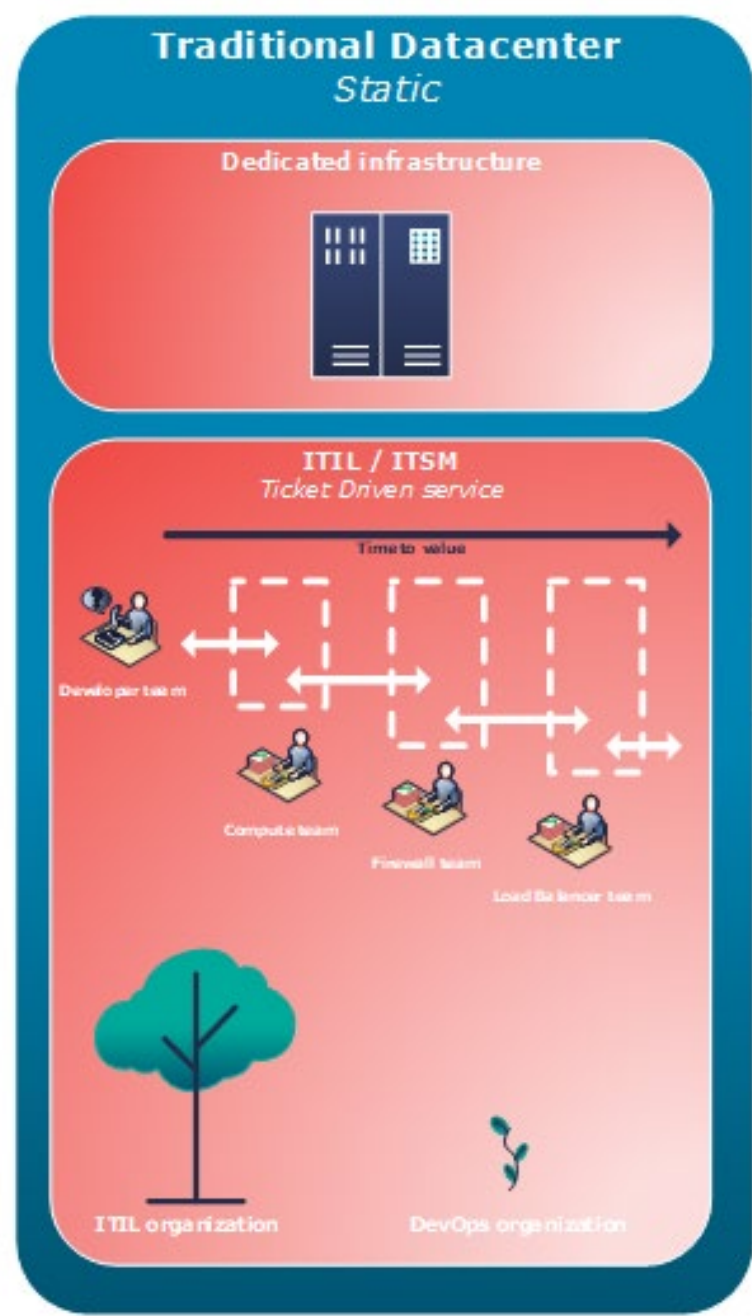


**WHAT'S NEXT?**  
PROBABLY PIZZA-ORIENTED ARCHITECTURE

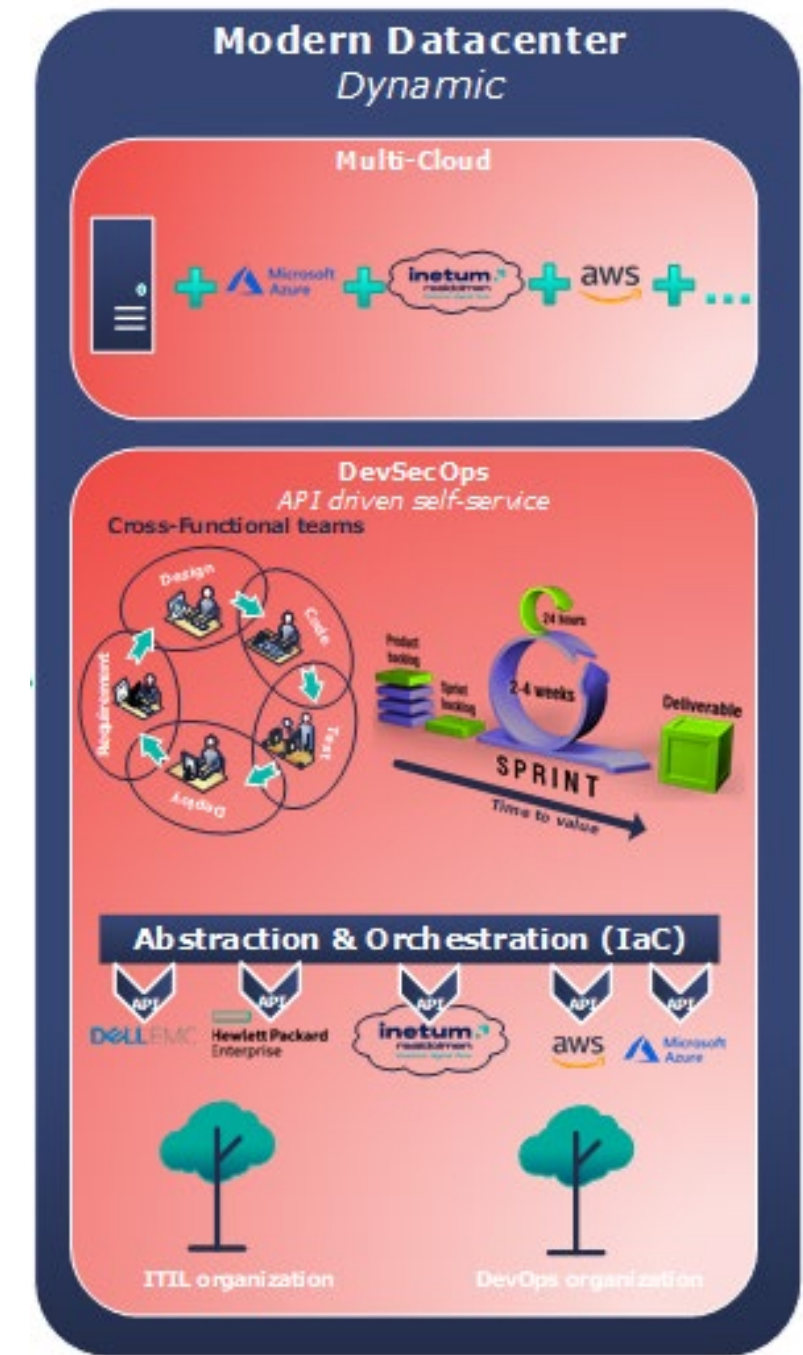
By @benorama

**Microservice** software architectures  
have laid the **foundations for cloud**  
**computing.**

# Infrastructure Technology Trends – IaC and Cross-clouds



- **Edge** cloud for low latency apps (IoT, Industry 5.0, AR/VR,...); data generated at the edge needs to be processed in (near-)real-time
- **Evolution** of infra- and development teams into agile DevSecOps teams
  - Short feature development cycles (sprints)
  - Operational excellence (IaC)



# So, in a nutshell...

## What?

Cloud computing is a model for enabling ubiquitous, convenient, **on-demand** network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be **rapidly provisioned** and released with **minimal management effort** or service provider interaction.

### Essential characteristics

- On-demand Self-Service
  - Web-accessible
  - Resource Pooling
  - Rapid elasticity
  - Measured Service

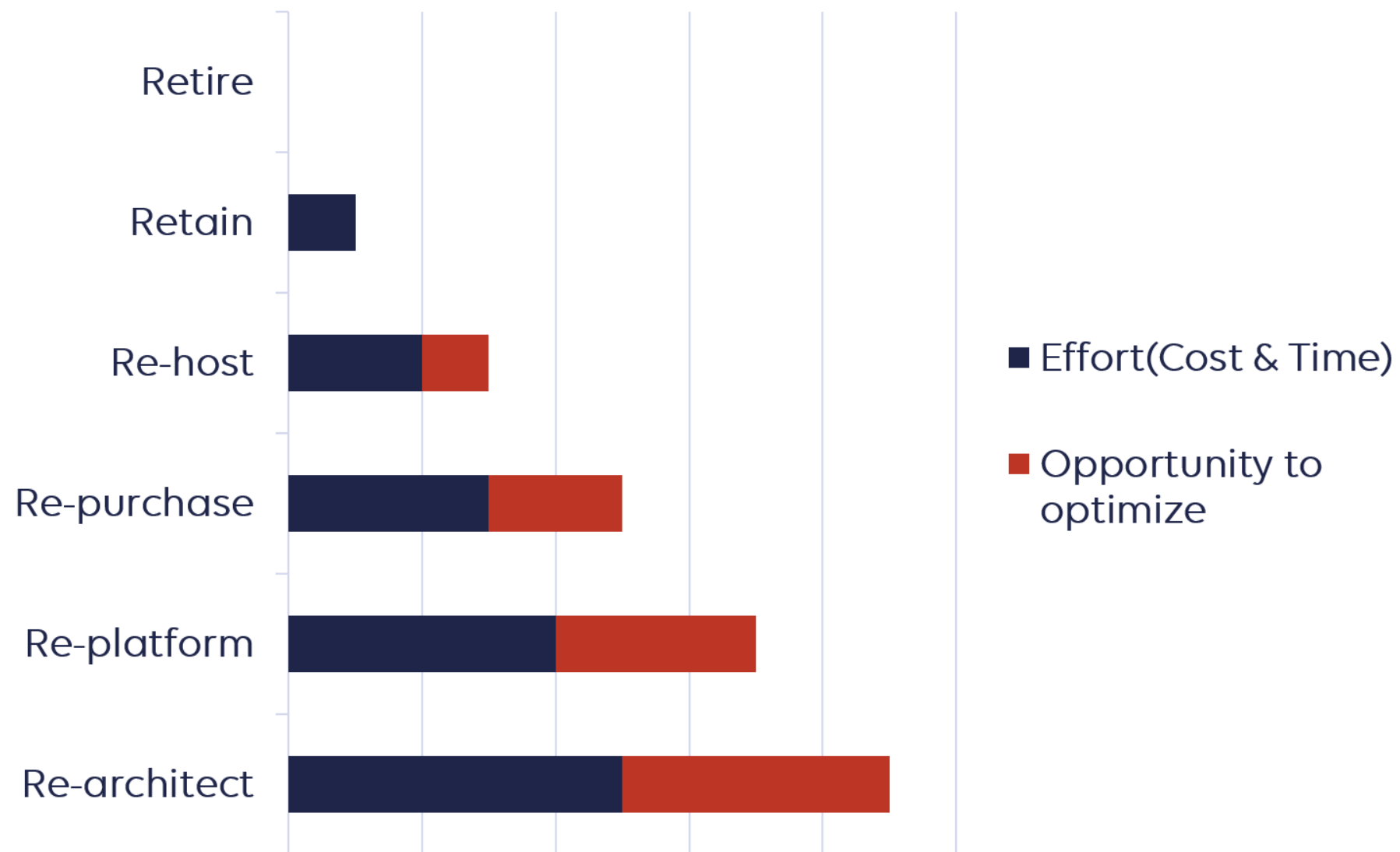
### Deployment Models

- Edge Cloud
- Private Cloud
- Regional Cloud
- Public Cloud

### Service Models

- Software as a Service
- Platform as a Service
- Infrastructure as a Service

# Cloud migration and app modernization strategies: “the 6 R’s”



**Retire:** Switch off applications that are no longer have a purpose

**Retain:** Keep applications as they are and don't modernize

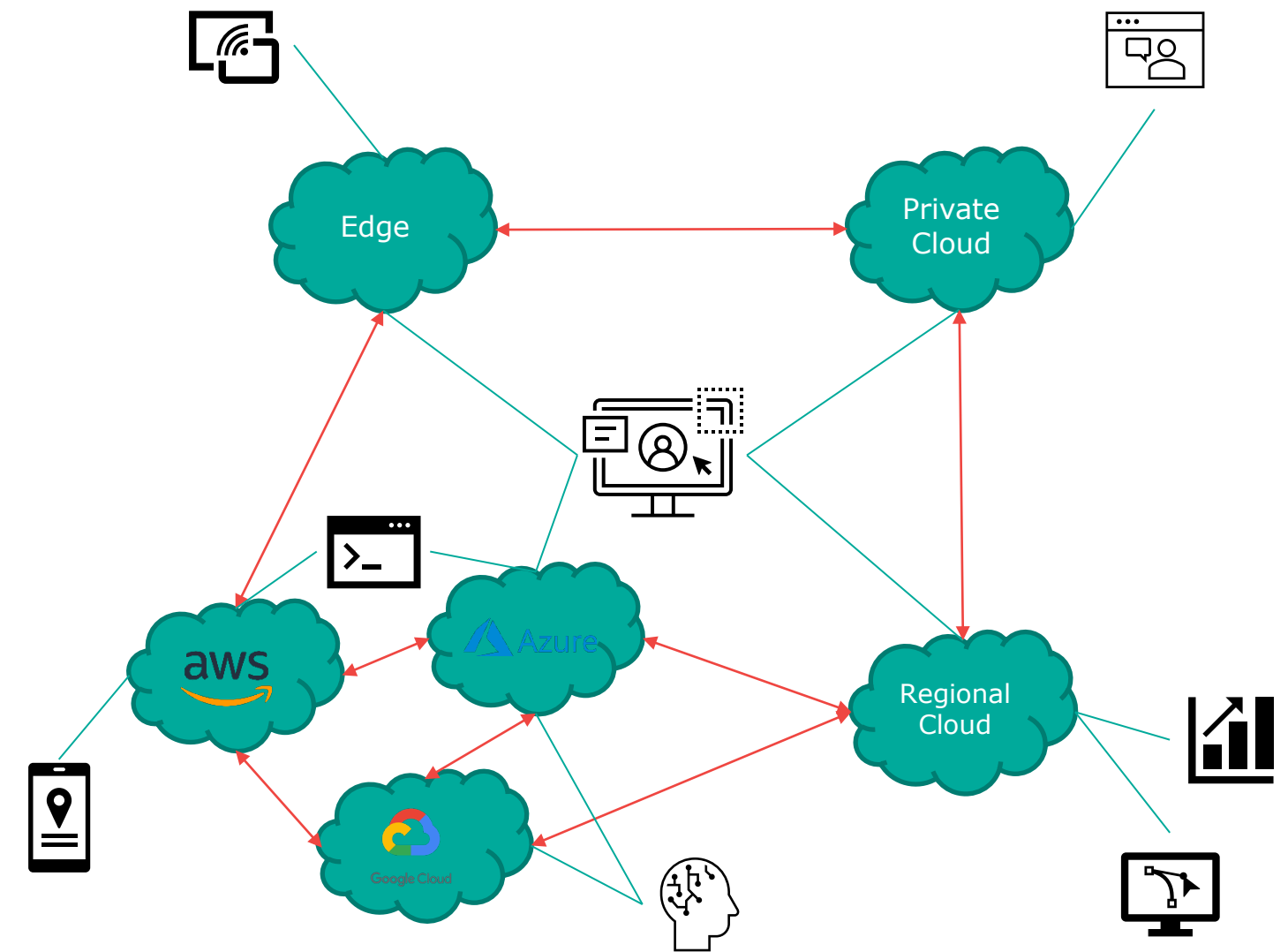
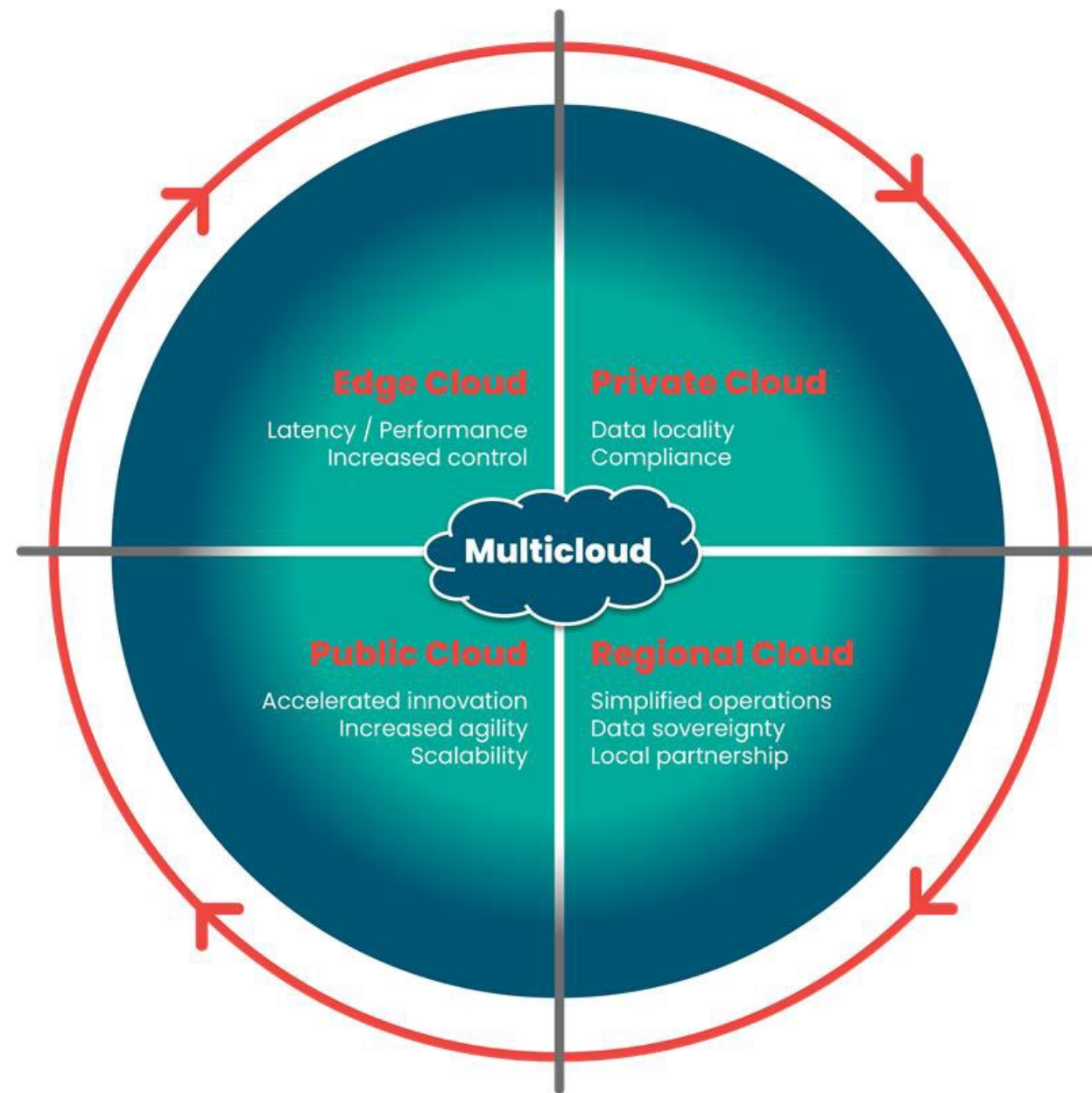
**Re-Host:** transfer the application to a cloud platform without modernizing or changing code (IaaS)

**Re-Purchase:** Move the application data and users to a new, ready-made, cloud-native products (SaaS)

**Re-Platform:** Modernize the application's existing code-base to allow for maximum cloud potential (PaaS)

**Re-Architect:** Re-write the application from scratch to conform to new cloud standards

# What is hybrid (multi-)cloud?



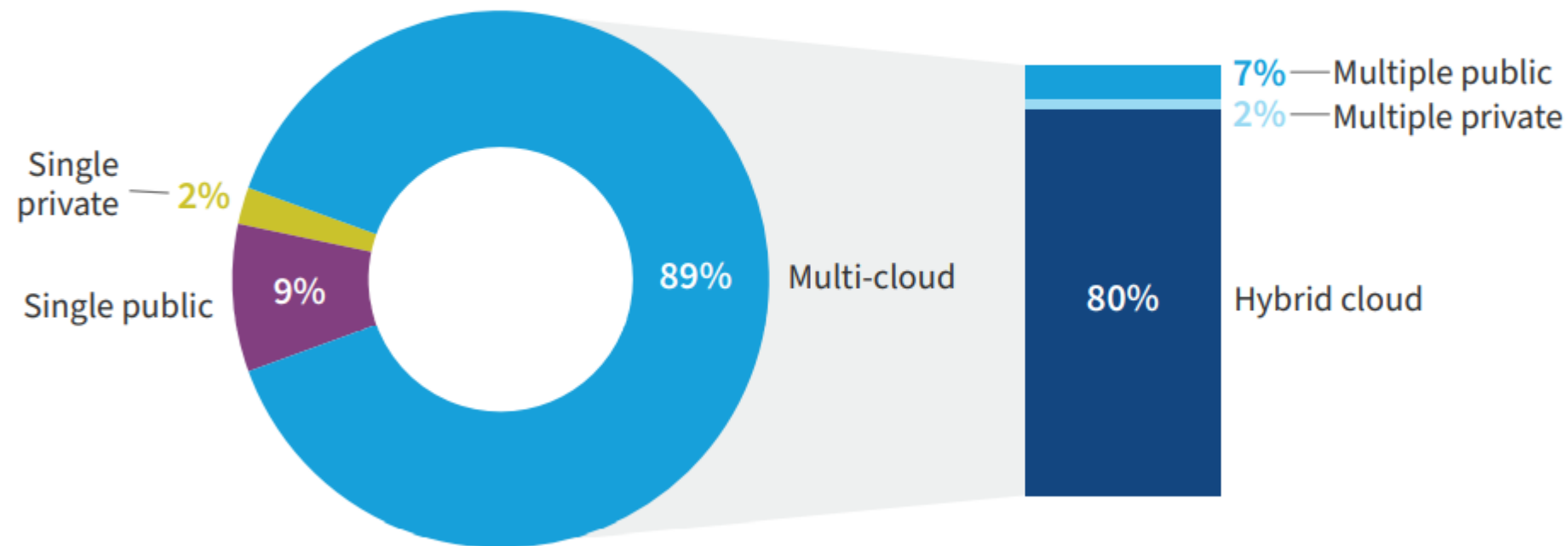
Cross platform management – Automation & Observability – DevOps – Application & Data driven – FinOps – Security – Privacy and Compliance – Sovereignty – Sustainability - ...

# Hybrid (multi-)Cloud in the market

**FIGURE 9**

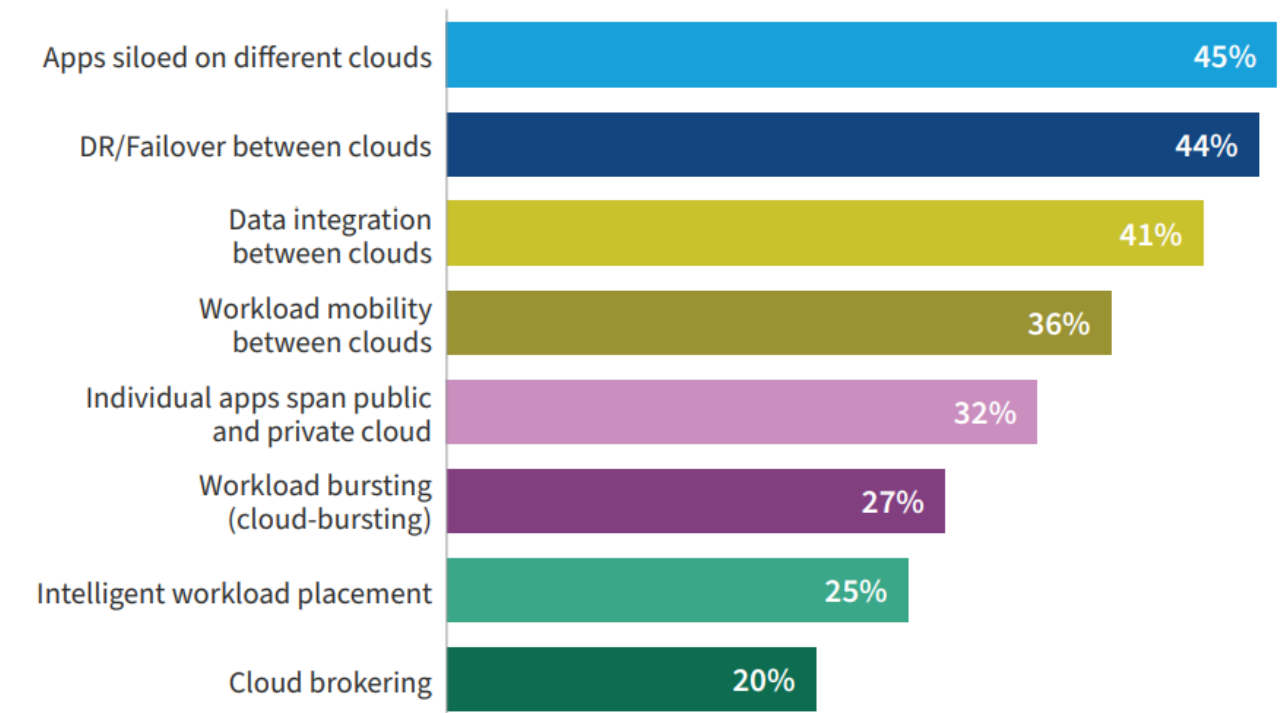
Multi-cloud remains the de facto standard.

## Cloud strategy for all organizations



N=753  
Source: Flexera 2022 State of the Cloud Report

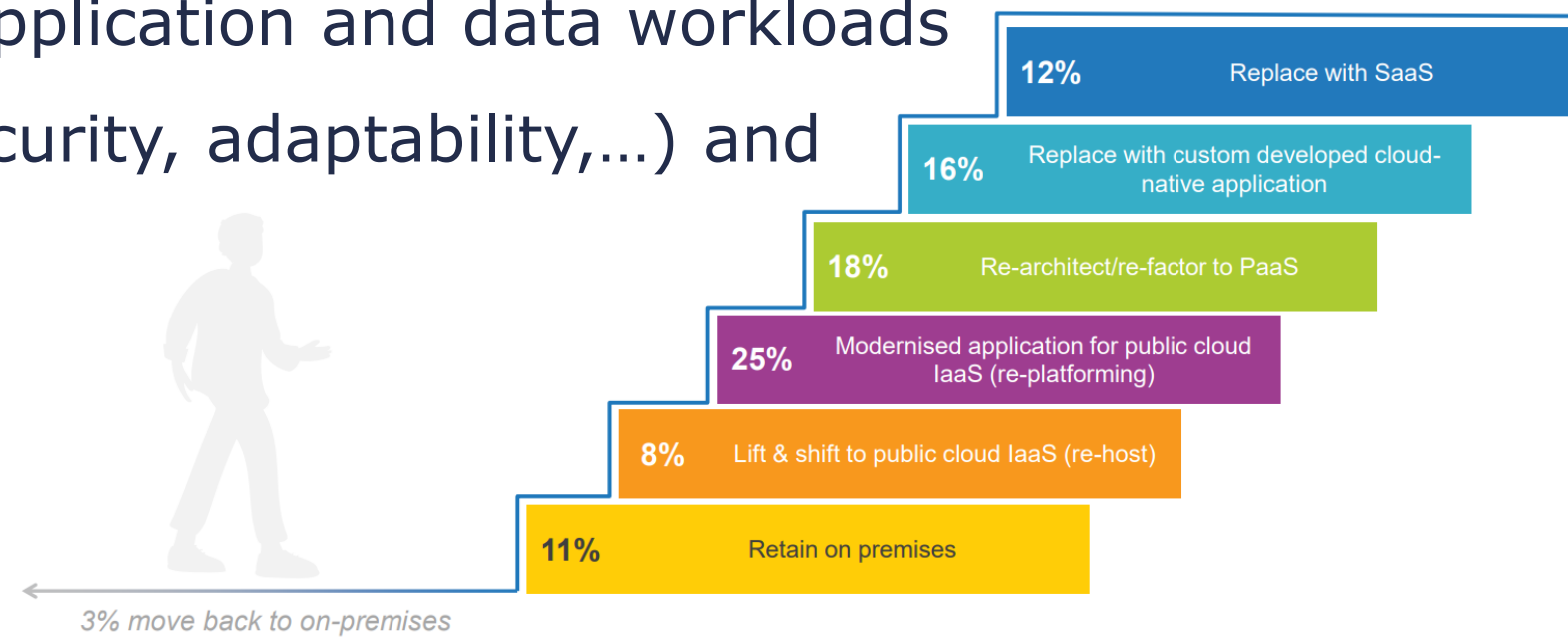
## Use of multi-cloud architectures by all organizations



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Source: Flexera 2022 State of the Cloud Report

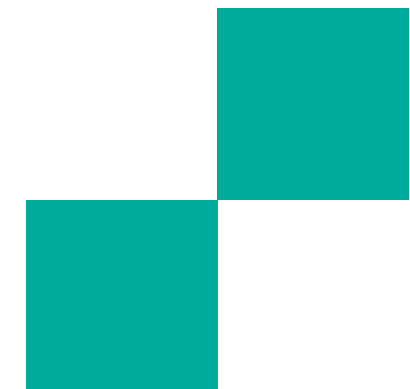
# The cloud reality 2023 - 2025

- In 2025 89% of companies will have a multi- and/or hybrid cloud strategy.
- Average software lifecycle is 6 to 8 years and times 2 for complex software
- Public cloud growth on major platforms is about 40% year over year
- 90% of data is created in the last 2 years
- Adoption pay per use pricing models is growing fast
- Cloud strategies differ to cater specific application and data workloads
- More stringent business (compliance, security, adaptability,...) and operational requirements

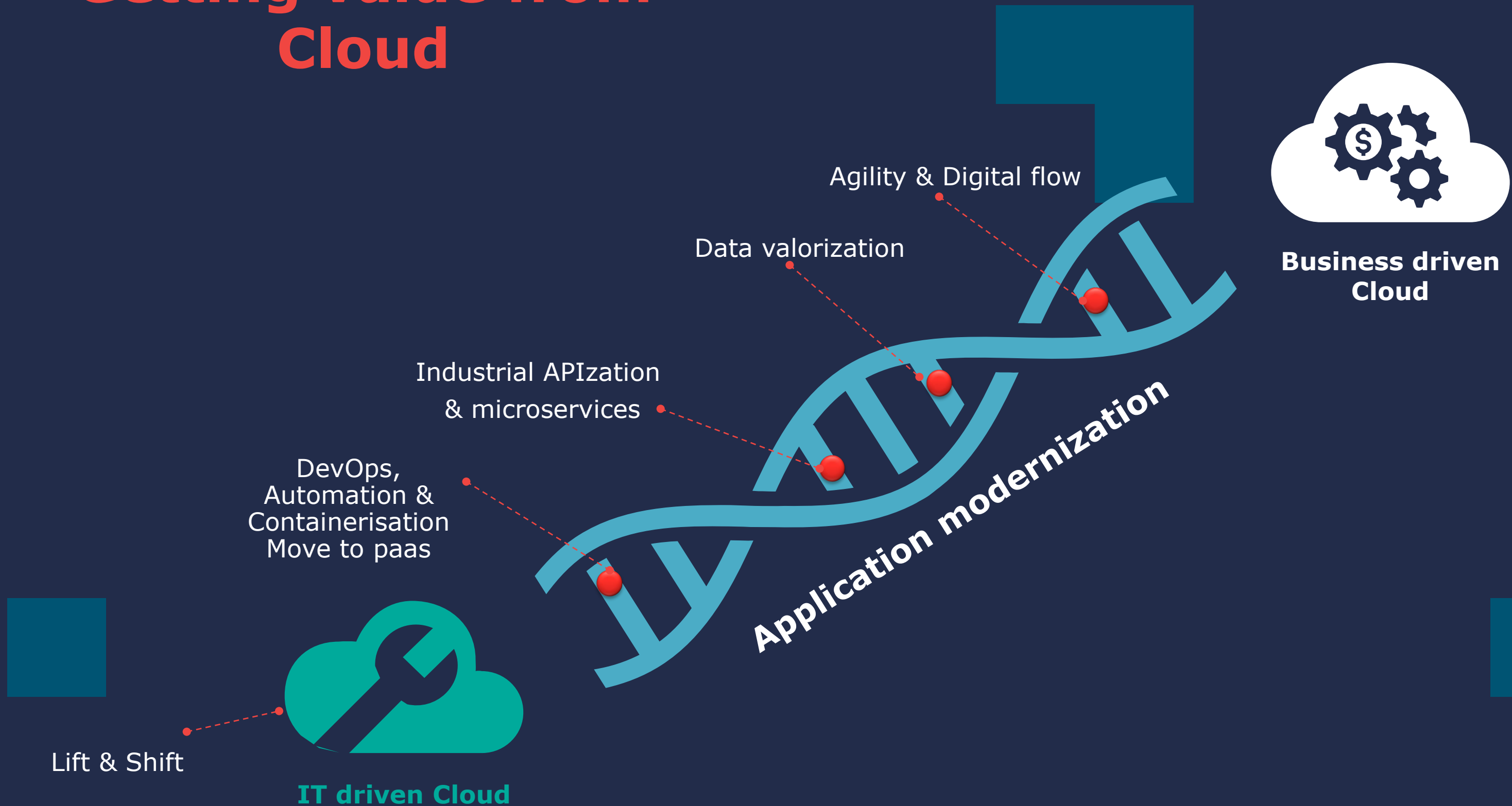




What?



# Getting value from Cloud



# Requires a new and modern Operating Model



## Managed Services IT Operations



Managed Services  
Transformation

## Digital Services IT Operations 2.0

Multi and Hybrid cloud  
Automation  
Advanced Monitoring



Growth Digital  
Maturity

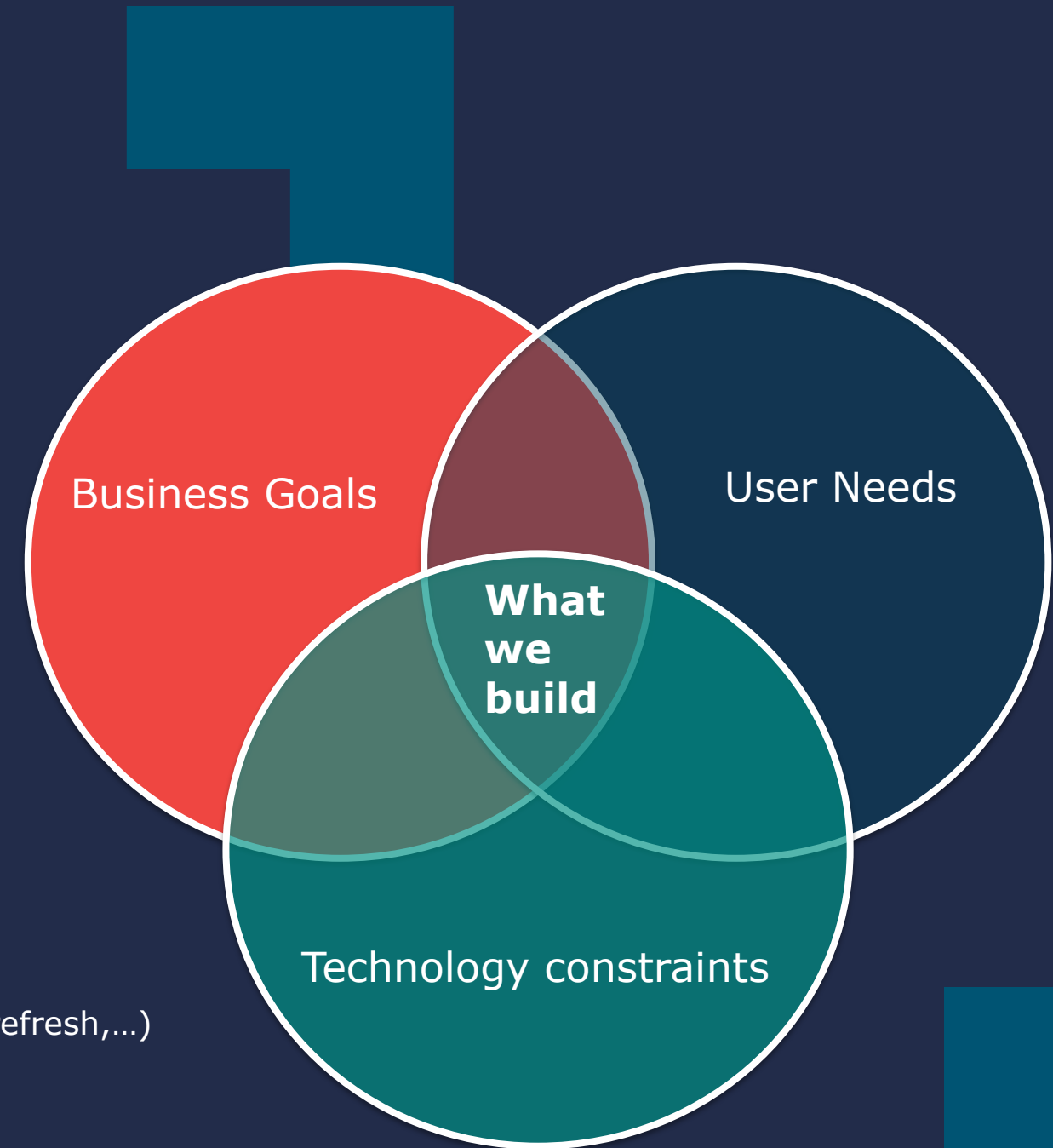
## Services IT Operations 3.0

Smart Virtual Operator  
Proactive & Predictive  
AIOps Services  
Hybrid Virtual CPD



# What elevates a datacenter to a Private Cloud?

- **Self-service provisioning**
  - Less work for operational teams
  - Faster time to market for applications and workloads
  - Operational excellence
- **Automation**
  - Minimize human error
  - Faster deployment
- **Improved security**
  - Automated detection and patching of vulnerabilities
  - Micro segmentation added by enterprise network virtualization features
- **Lifecycle automation**
  - Automated lifecycle management of hard –and software (patching, technology refresh,...)
- **Cloud economics**
  - Pay per use // Flexible capacity
  - Cash flow // Operations model not requiring upfront investment



# Shifting existing paradigms...



... and creating  
new ones

***"On-premise Private Clouds bridge the gap between old and new. They are an important aspect of any multcloud strategy, enabling innovation and agility while maintaining a high degree of operational and financial control."***

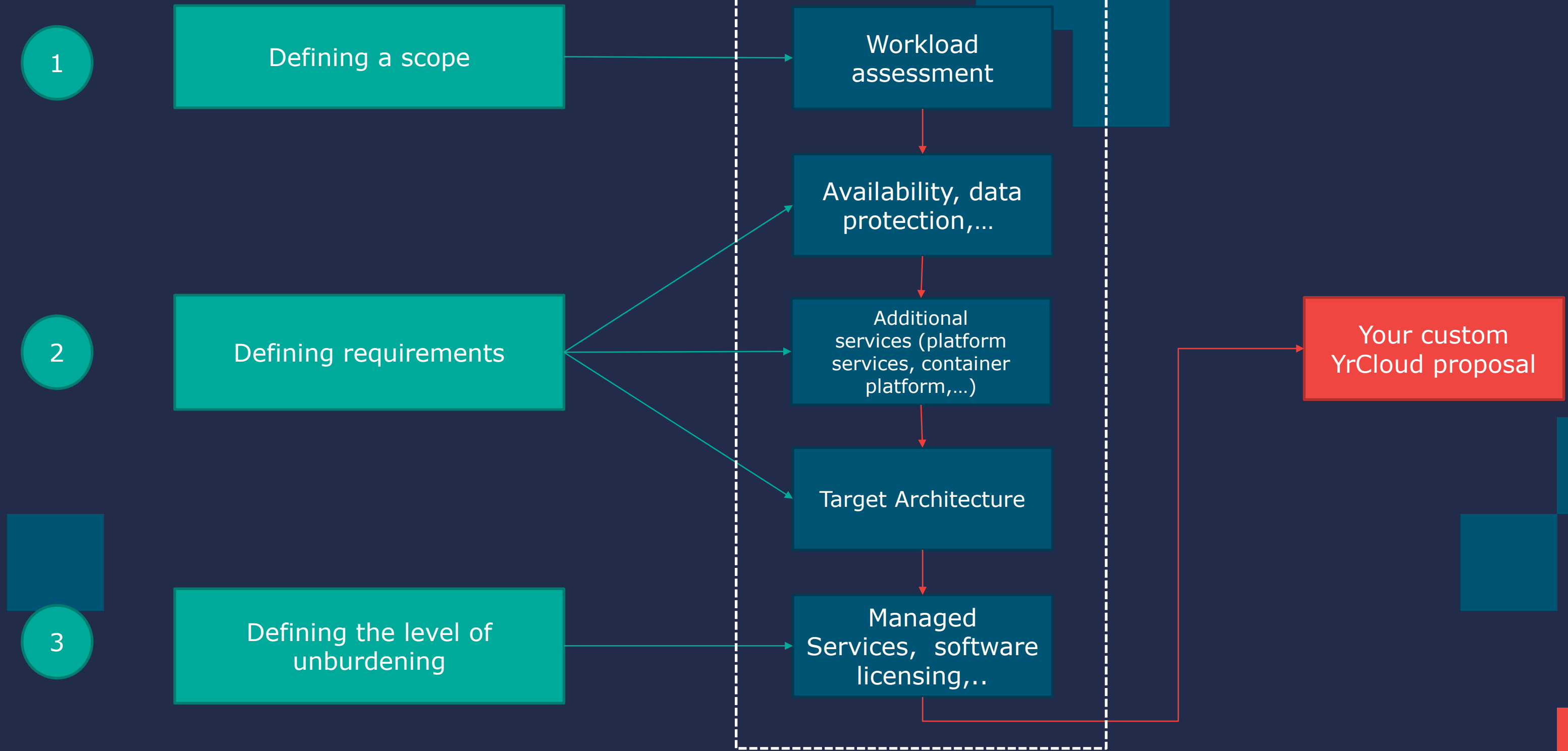


How?



# Next steps to get started

Typical study duration 10 days



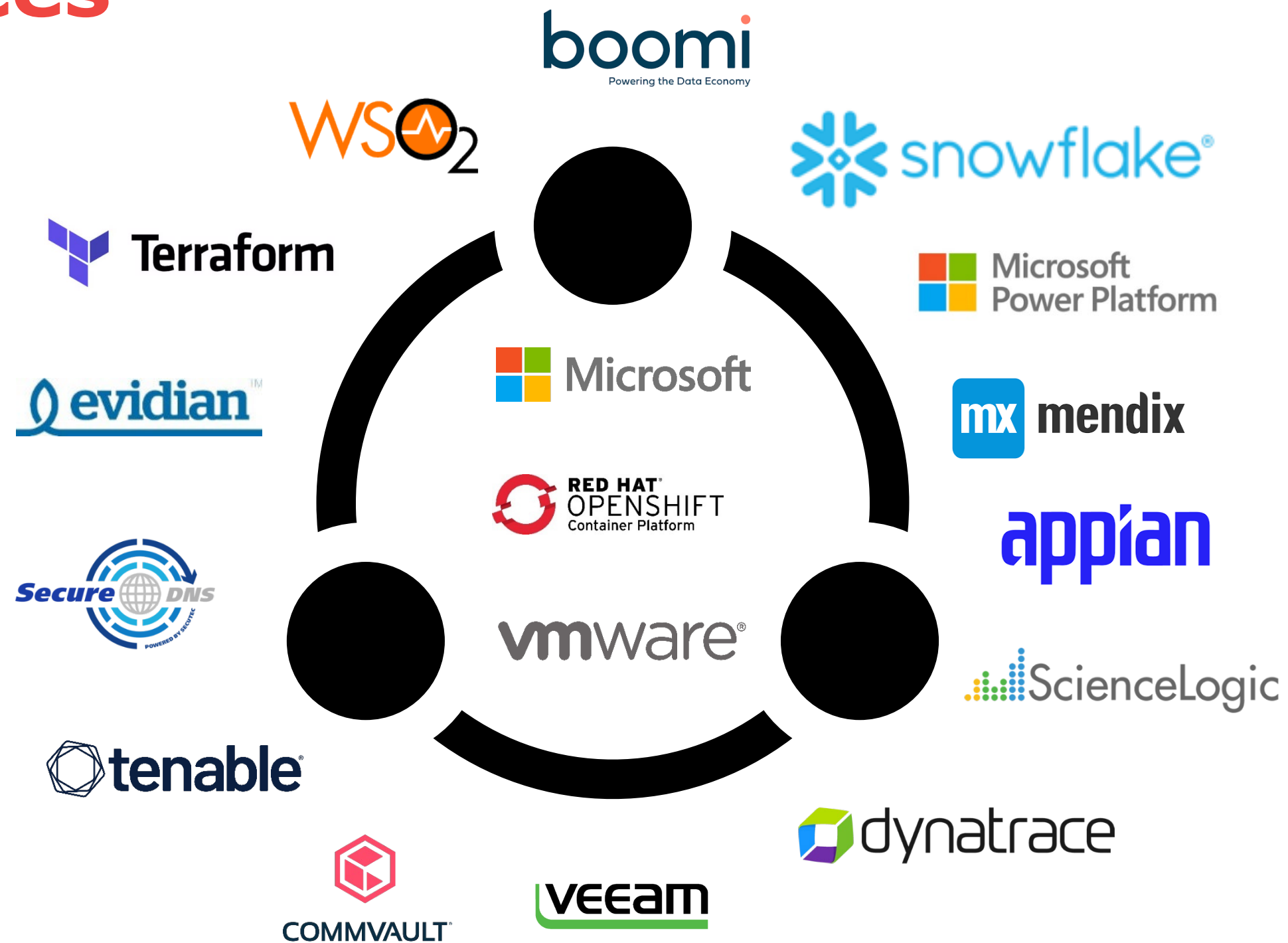




# Powered By...



# Available platform and integration services



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POLAND | ROMANIA | MOROCCO | TUNISIA | SENEGAL | CÔTE D'IVOIRE | ANGOLA |  
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