Inetum. The real dollars of the positive digital flow

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

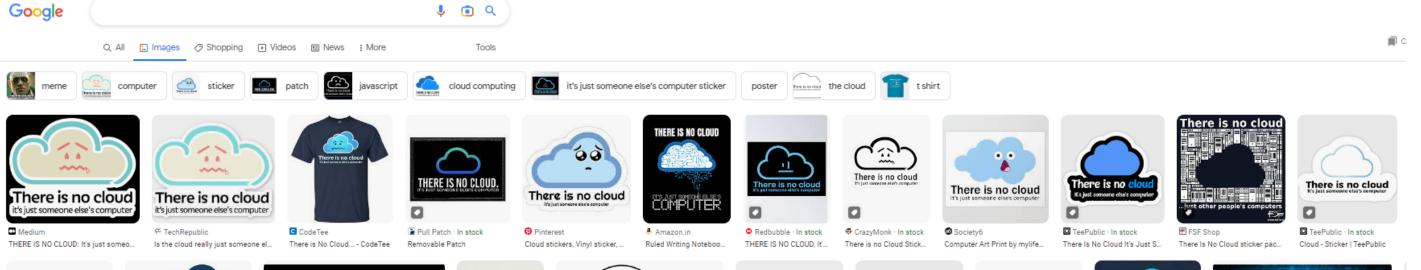
Reducing Costs
Outsourcing IT



CIO



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











TeesPerky | Print on Demand...



The Cloud is (Frequently) Terrible ...



Melissa Houghton JavaScript in the Cloud - Melissa Houghton







Packt Subscription Professional Cloud Architect .



Spreadshirt - In stock Sticker | Spreadshirt



Open Source Stack Excha... clouds are mostly computers...



Wim Vos Automatisering

HERE IS NO CLOU

Cloud It's Just Someon...



TeeShirtPalace Computer, T-Shirt | TeeShirtP...



There is no cloud...it's just someone .











Computer Drawing by K...



There Is No Cloud. - THE...





Blog of Leonid Mamchenkov Blog of Leonid Mamchenkov



TeePublic - In stock





PoliShirts.de | Spread...



♦ Wikimedia Commons

And completely missing

Just kidding

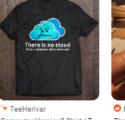
of course...





computer pullover hoodie ... There Is No Cloud. - THER...

























Bol.com









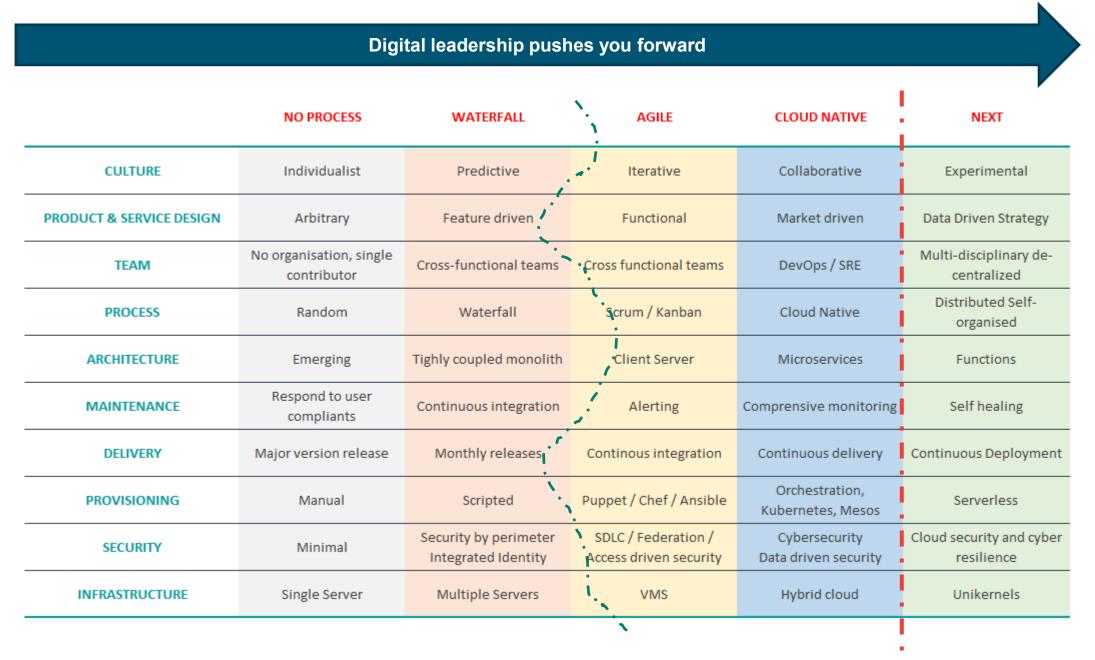




Cloud is not just about technology. It is the delivery fabric for the digital age.

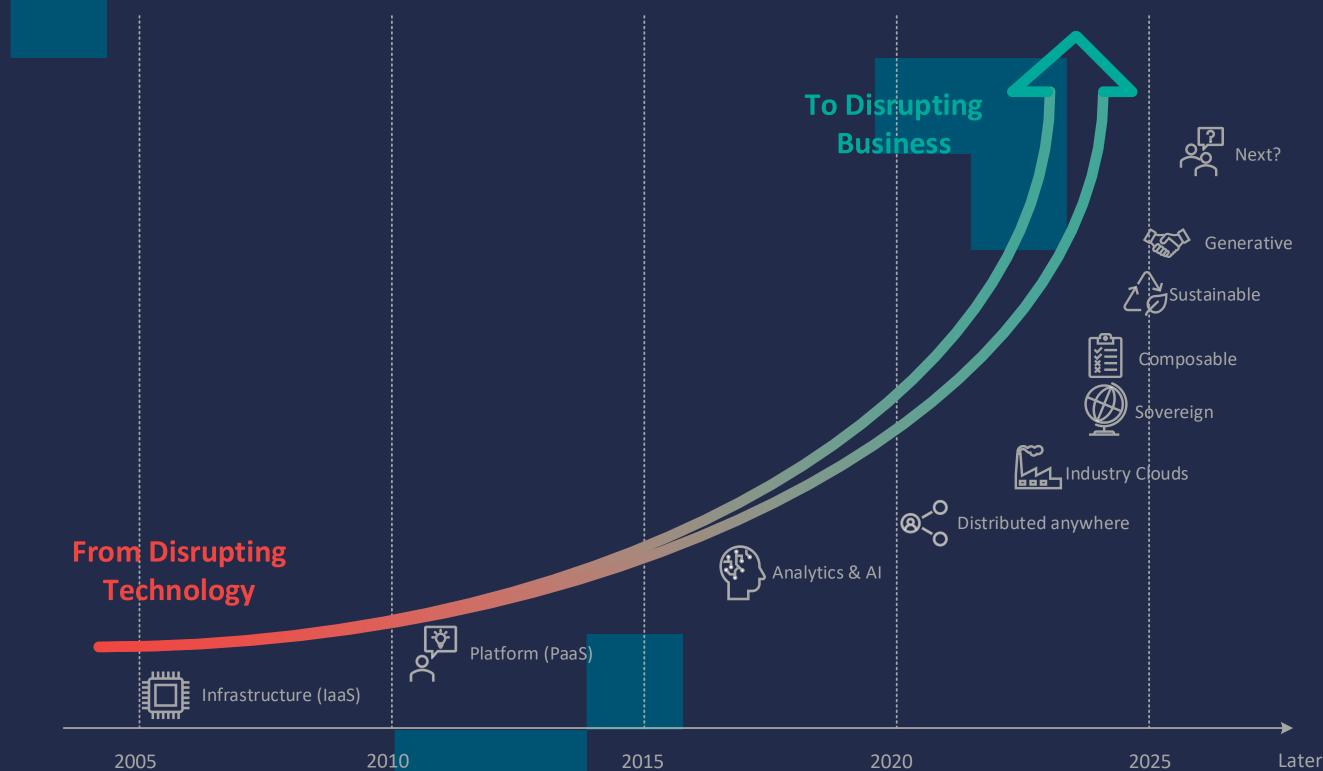


Cloud(-native) as a catalyst for innovation



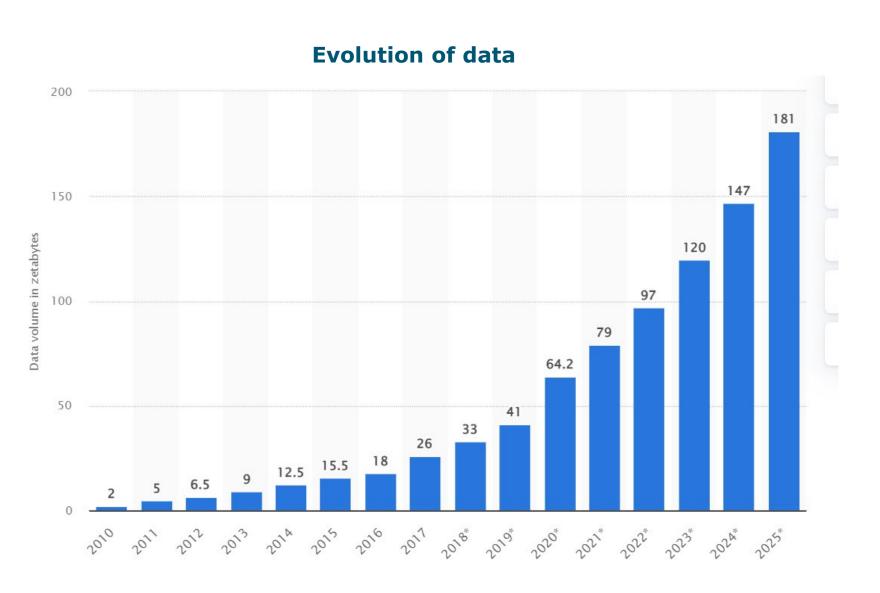
IT is evolving...



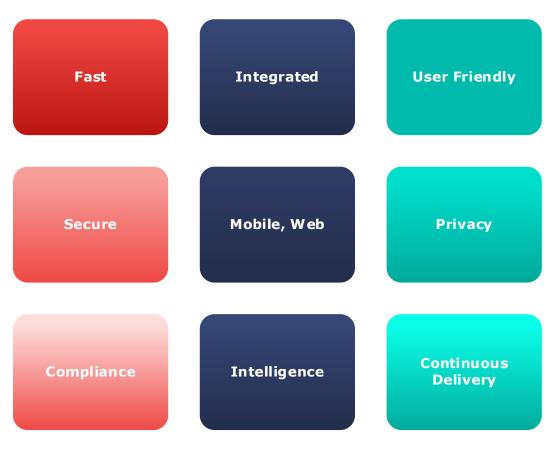




With new expectations...



Expectations of the business



© Statista 2023



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

THE EVOLUTION OF



1990's

SPAGHETTI-ORIENTED ARCHITECTURE (aka Copy & Paste)



2000's

LASAGNA-ORIENTED ARCHITECTURE (aka Layered Monolith)



2010's

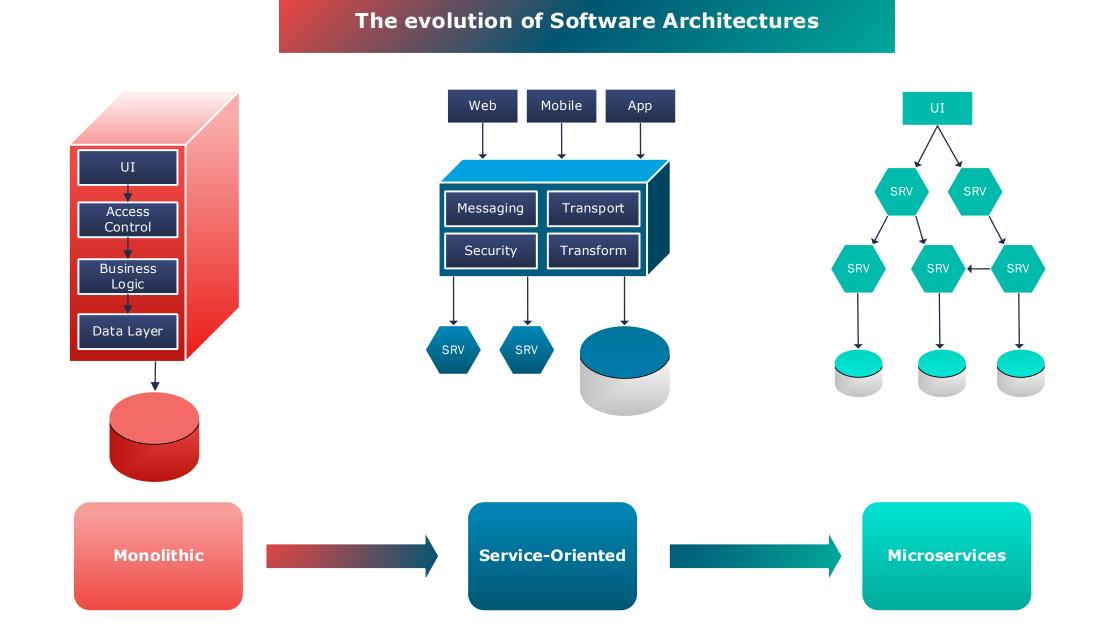
RAVIOLI-ORIENTED ARCHITECTURE (aka Microservices)



WHAT'S NEXT?

PROBABLY PIZZA-ORIENTED ARCHITECTURE

By @benorama

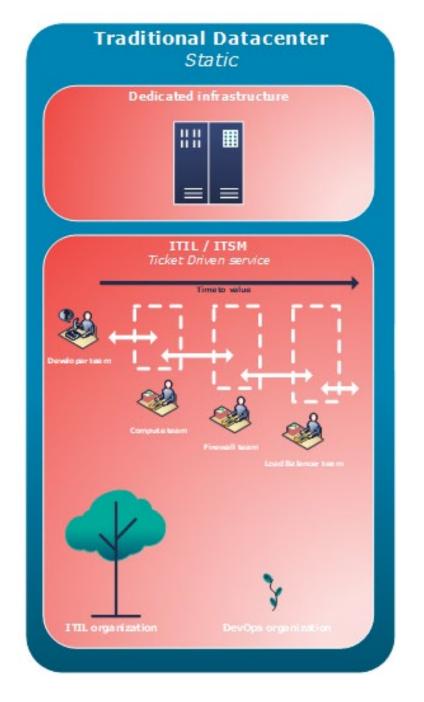


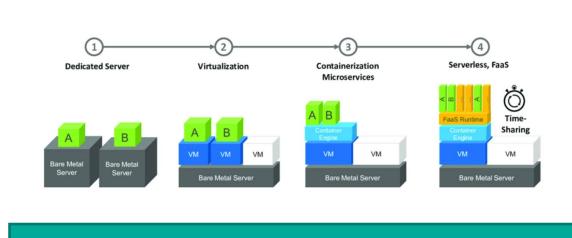


Microservice software architectures have laid the foundations for cloud computing.



Infrastructure Technology Trends – IaC and Cross-clouds

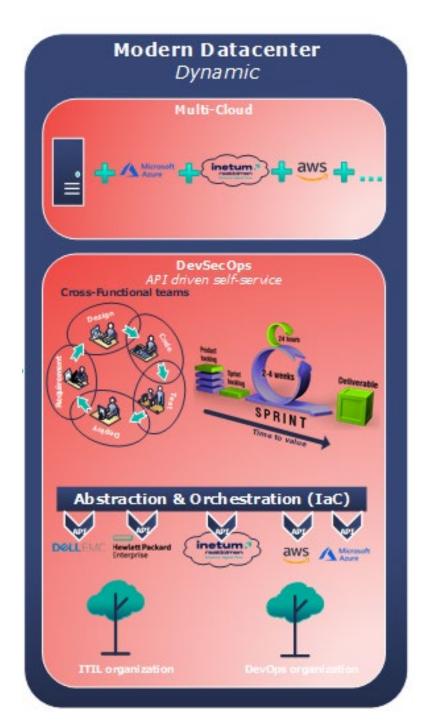




• **Edge** cloud for low latency apps (IoT, Industry 5.0, AR/VR,...); data generated at the edge needs to be processed in (near-)real-time

Evolution of infrastructure

- 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

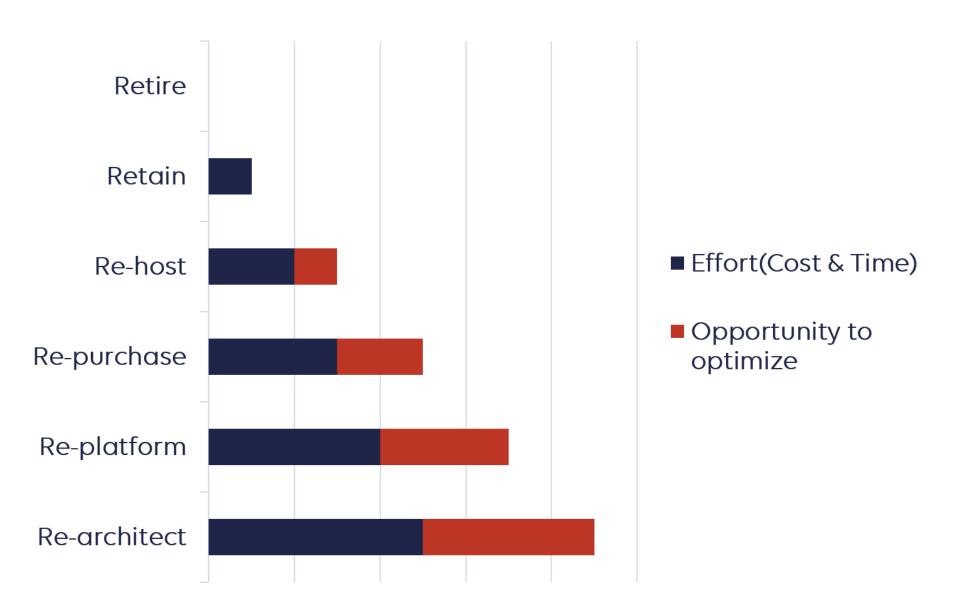
- Edge Cloud
- Private Cloud
- Regional Cloud
- Public Cloud

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)

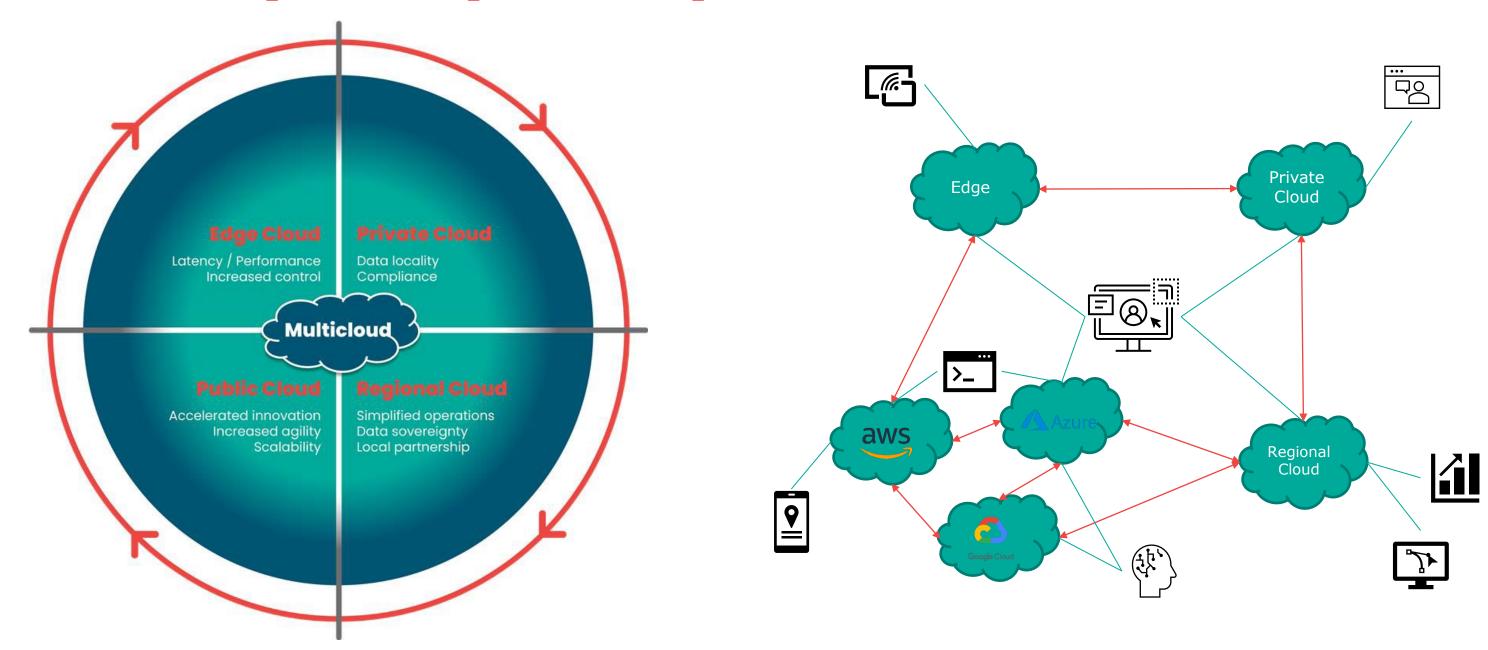
Re-Purchase: Move the application data and users to a new, ready-made, cloud-native products (SaaS)

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 - ...

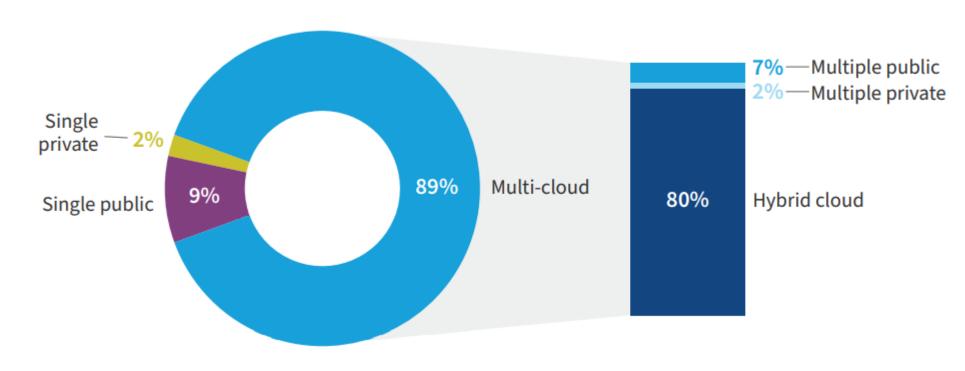


Hybrid (multi-)Cloud in the market

FIGURE 9

Multi-cloud remains the de facto standard.

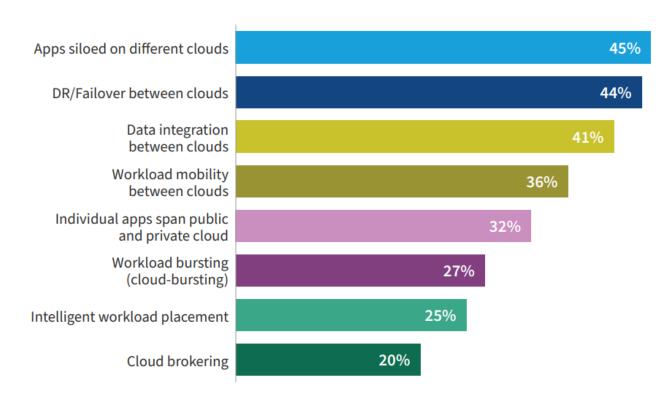
Cloud strategy for all organizations



N=753

Source: Flexera 2022 State of the Cloud Report

Use of multi-cloud architectures by all organizations



N=753

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

16% Replace with custom developed cloud-native application

18% Re-architect/re-factor to PaaS

25% Modernised application for public cloud laaS (re-platforming)

Lift & shift to public cloud laaS (re-host)

Retain on premises

3% move back to on-premises

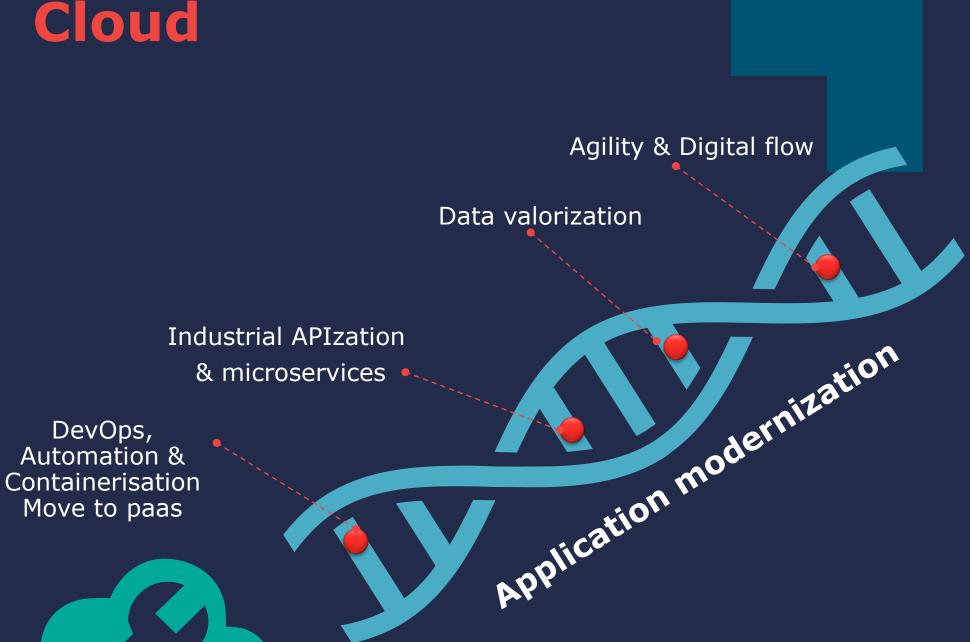


What?



Getting value from Cloud







Business driven Cloud

Requires a new and modern Operating Model

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Smart Virtual Operator
Proactive & Predictive
AIOps Services
Hybrid Virtual CPD





Managed Services IT Operations

Digital Services IT Operations 2.0

Multi and Hybrid cloud Automation Advanced Monitoring

Growth Digital Maturity





Managed Services
Transformation

What elevates a datacenter to a Private Cloud?

inetum.

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

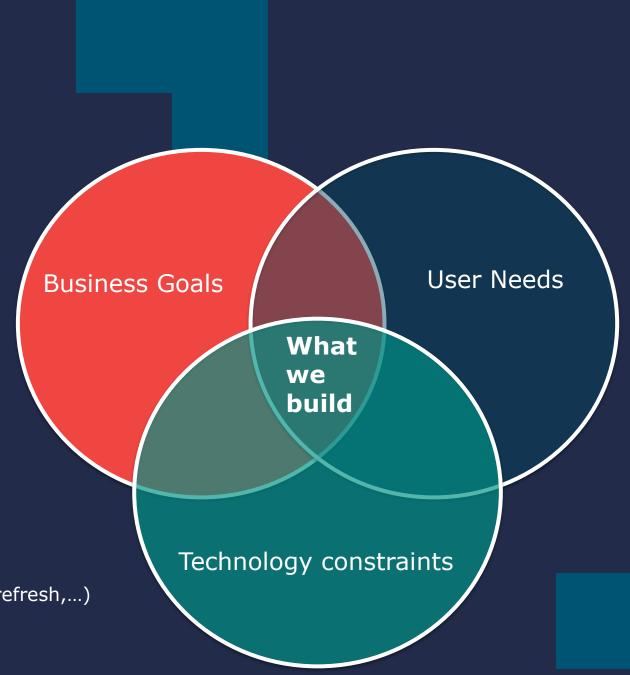
- Automated detection and patching of vulnerabilities
- Micro segmentation added by enterprise network virtualization features

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...

On-premise (edge) Private Cloud Hosted (regional)
Private Cloud

inetum.

Public Cloud

	Business centricity	Innovation Speed & Agility	
		Cost control challenges	
		Scalability	
	Busine	Resilience	
ity & iance		Latency to local resources	
Securi		Control over compliance and security tooling	
•	ture	Lifecycle management / technology refresh	
	infrastructure	Infra automation level	
Ė		Hosting infrastructure (datacenter, power,)	

Limited			
Maximum Control, fixed budgetting			
Risk of over –or underprovisioning			
Local availability			
Minimal			
Own tooling and resources			
Recurring capital investment			
Limited			
Own premises			

Datacenter

•	••
Elastic costs, easily controlled	Elastic costs, easily controlled
Automated capacity management, "right-sized" infrastructure	High scalability on-demand, up- and down-
Local availability	Regional availability
Minimal	Depending on bandwidth and WAN latency
CSP managed for infra components	CSP managed for infra components
CSP managed for infra components, tech refresh included as a service	CSP managed up to platform layers (backup,), tech refresh not applicable
•	••
Own premises	CSP hosted



CSP hosted

... and creating new ones

inetum.

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



How?

Next steps to get started inetum." Typical study duration 10 days Workload Defining a scope assessment Availability, data protection,... Additional Your custom services (platform 2 Defining requirements YrCloud proposal services, container platform,...) Target Architecture Managed Defining the level of 3 Services, software unburdening licensing,... 24





Powered By...























Available platform and integration services





inetum.world

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