

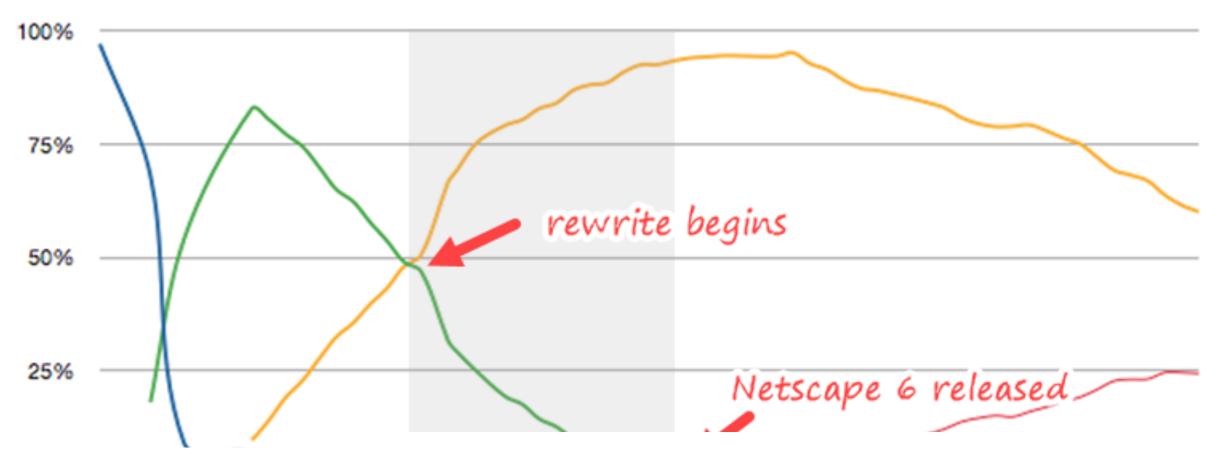
APP MODERNISATION DAY 09/04/2019 — MICROSOFT HOUSE, MILANO

The path to the future...



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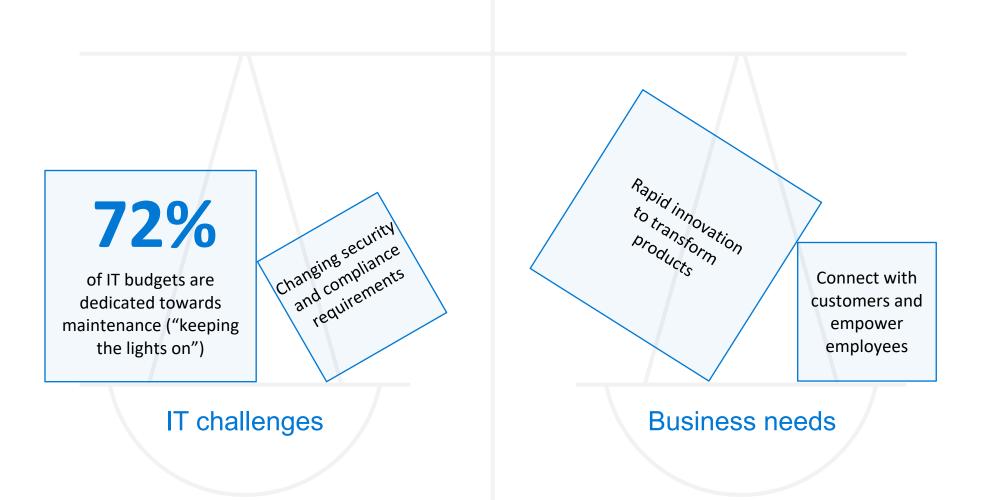
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Never rewrite! (Almost...)

- <u>https://www.joelonsoftware.com/2000/04/06/things-you-should-never-do-part-i/</u>
- <u>https://medium.com/@herbcaudill/lessons-from-6-software-rewrite-stories-635e4c8f7c22</u>
- The history repeated some years later...

Balancing IT and business



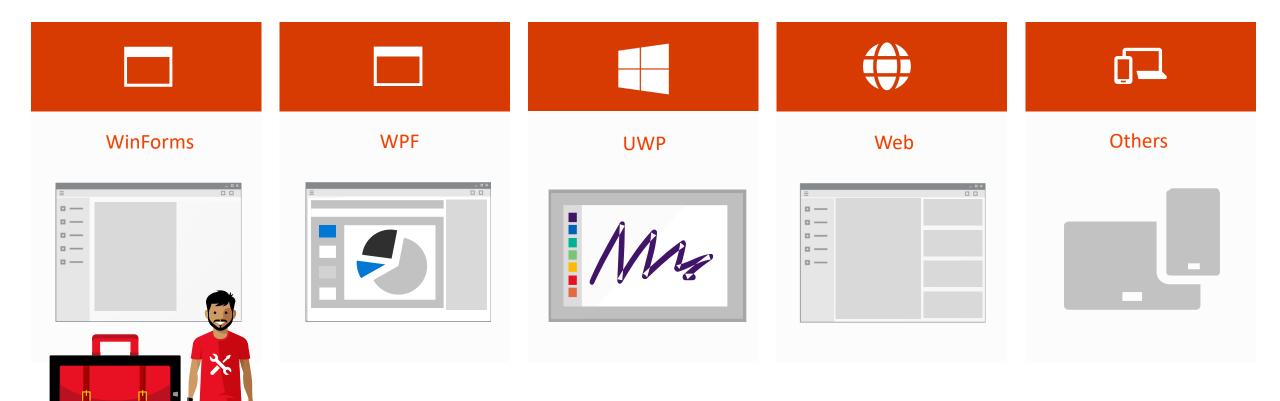


App Modernization to the rescue!

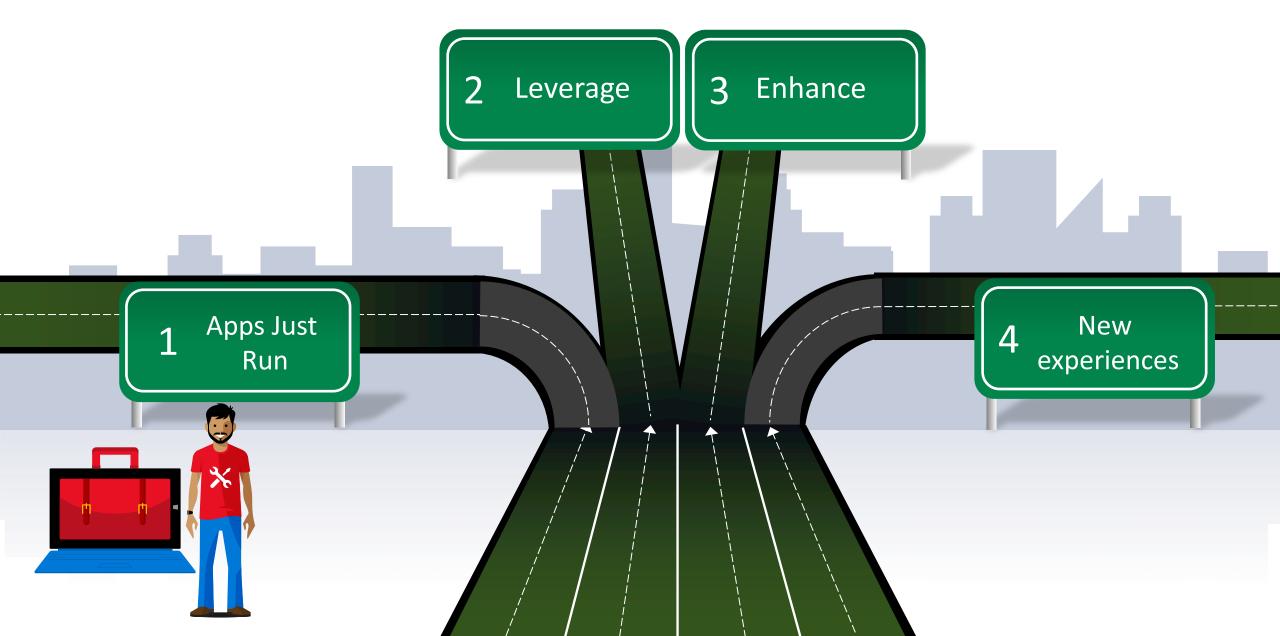


Web/API Or Desktop?

Current investments on Desktop Apps



Multiple Journeys to help evolve Desktop Apps







Web/API

Application layers

Application

Data + Intelligence

Infrastructure



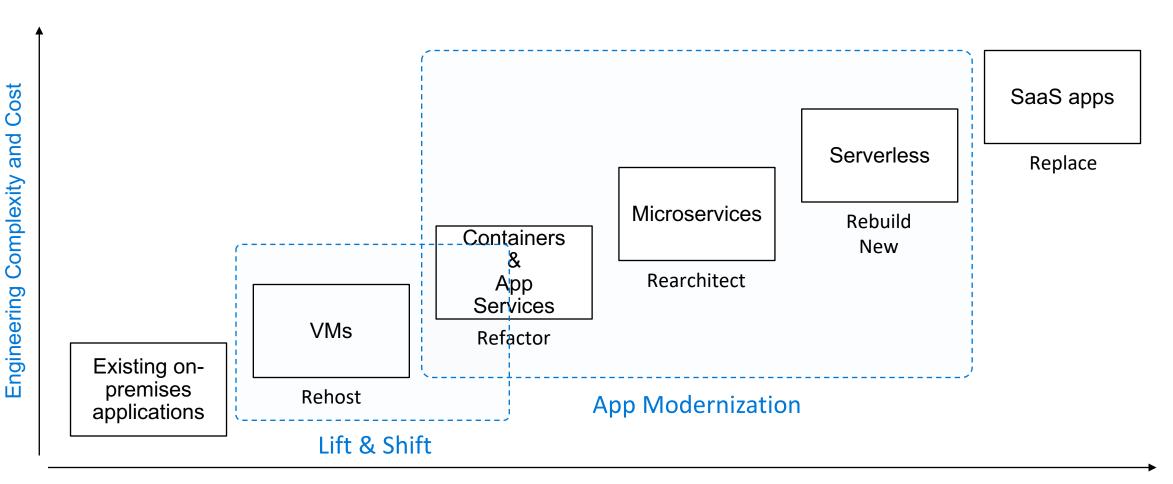


The journey to the (hybrid) cloud

On-Premises

datameted f policies, context.attive, asject is not arrow, and - molifier, atta-Application airror, and airror, atta-Application airror, att	Migration & Modernization			Cloud-Native	SaaS	aS	
Infrastructure	Rehost	Refactor	Rearchitect	Rebuild/New	Replace		
			DevOps ter and more reliably				

(Hybrid) Cloud app continuum



Agility – Time to Market – Total Cost of Ownership – IT Simplification

Modernizing web apps with Azure



Challenges



No consistent service level/uptime. No scaling if unexpected traffic.



Reduced agility/lack of flexibility. Monolithic applications, legacy code.



Lack of resources for new initiatives. Limited technical support.



App Service benefits



Built-in no-configuration autoscaling, load balancing and failover.

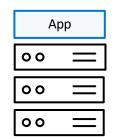


CI/CD/DevOps out of the box. Serverless options for all app scenarios.



Frees IT to focus on innovation. Use existing skills, tools & frameworks.

What is a **container**?



Virtual machines

Virtualize the hardware VMs as units of scaling

ſ	Container	
	Арр	

Containers

Virtualize the operating system Applications as units of scaling

What are **microservices**?

A Software Architectural Style

Applications are composed of small, independent modules that communicate with each other using well-defined APIs. Not platform specific.



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Decoupled

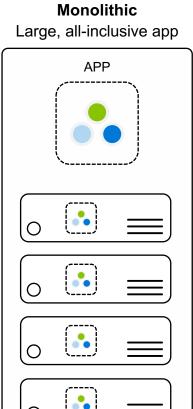
These service modules are highly decoupled building blocks that are small enough to implement a single functionality but together can form larger systems

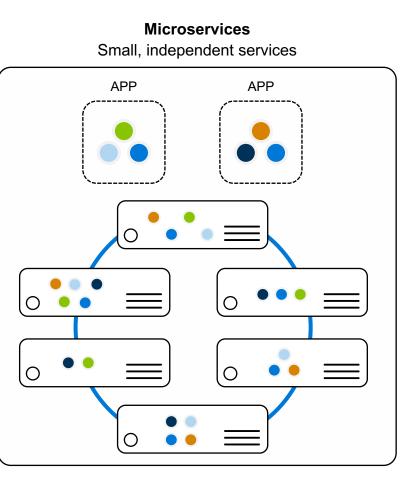


Independently versioned, deployed & scaled

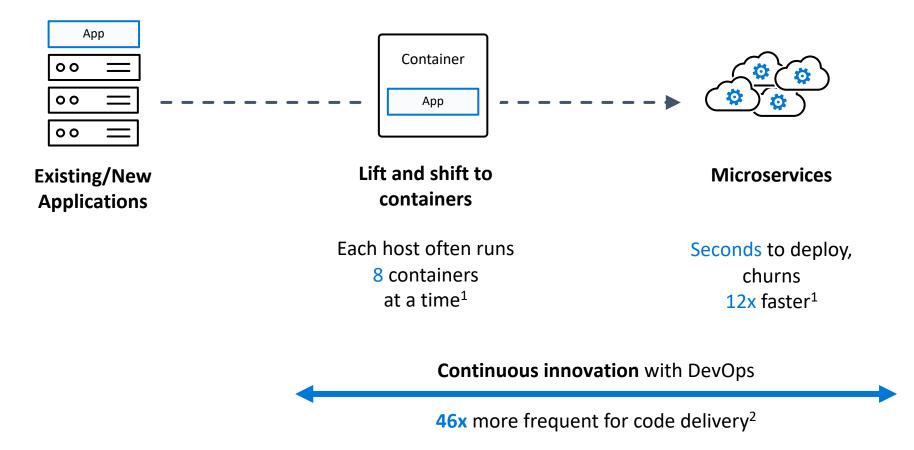
With a microservices architecture, developers can create, manage and improve application services independently, even using different languages

Containers provide the consistent format and isolation desired by microservices.





How can containers help your app modernization journey? From traditional systems to a portfolio of modern apps



Containers in Azure

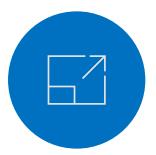






Choice of developer tools and clients

Azure Serverless



Focus

Auto-scale based on workload No infrastructure management No wasted resources



Flexibility

Hosting options Multiple languages Development environments



Efficiency

Shorter time to market Event-driven programming model End-to-end dev experience

Why is it a great fit for Microservices?

- Problems of traditional microservices
 - Scaling of compute resources
 - Operations dependency

2

3

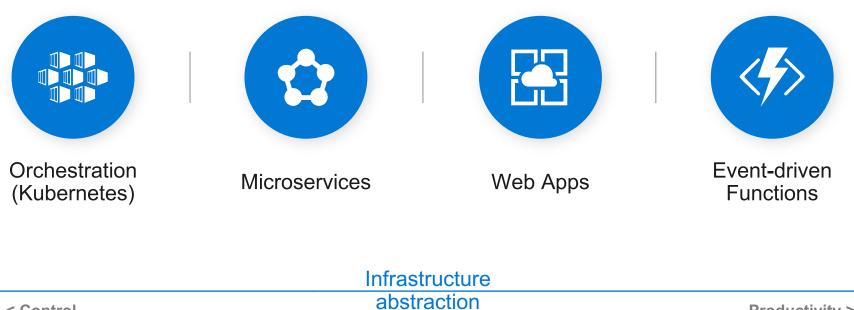
- Pay per hosting nodes
- 4 Services discovery and managing services integration

Serverless solution

- Automatic scaling based on workload
- > No infrastructure management
- Pay per execution
- Event-based programming model (triggers + bindings)



App Modernization continuum



< Control

Productivity >



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THANKS



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L'EVENTO È STATO POSSIBILE GRAZIE A:

COMPUTER GROSS managed/designs