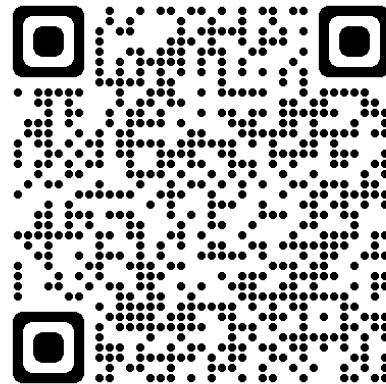


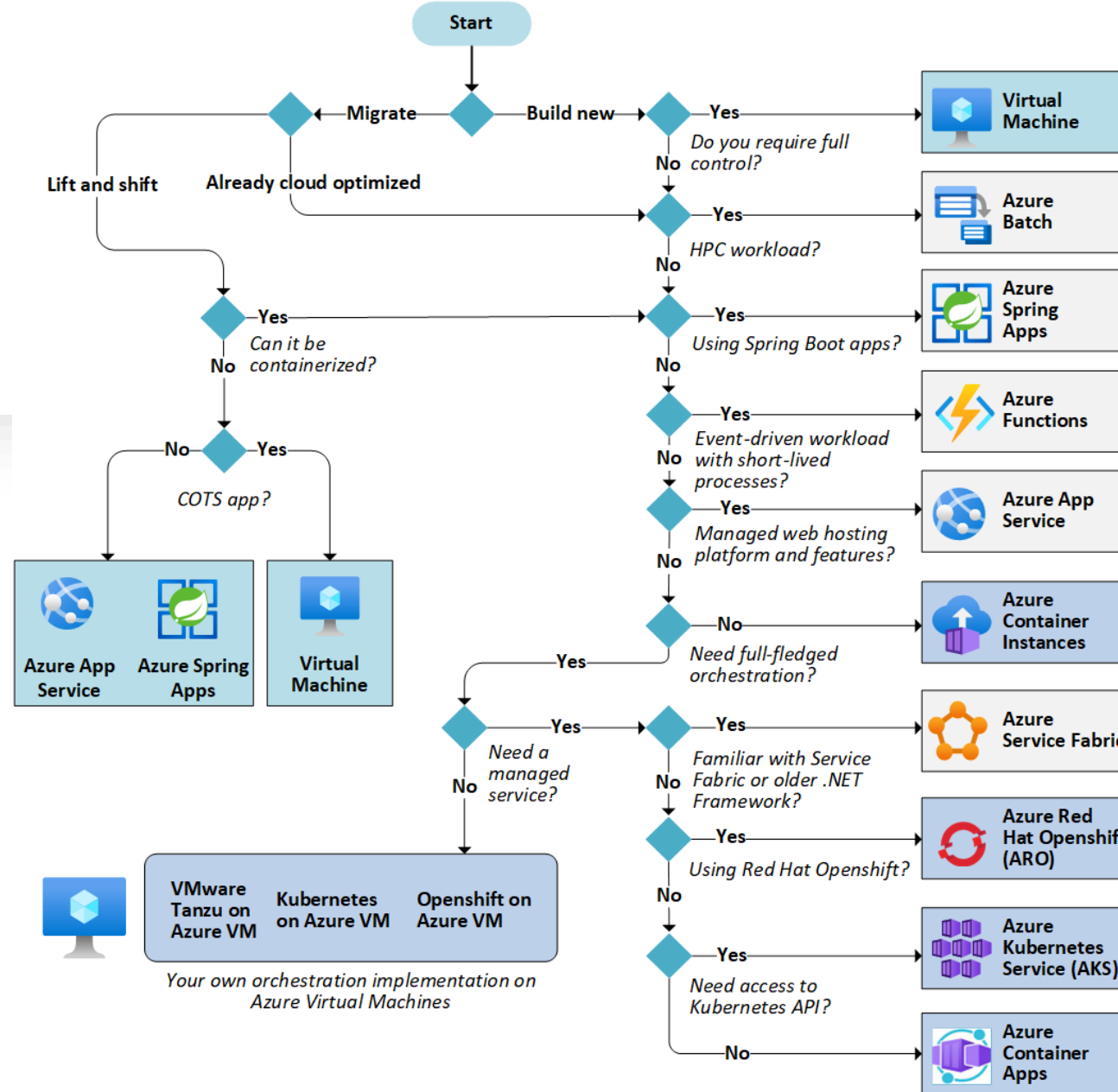
Azure Compute: La grande sfida!

Daniela Tomoiaga
Azure App Innovation
Solution Specialist



The Paradox of Choice

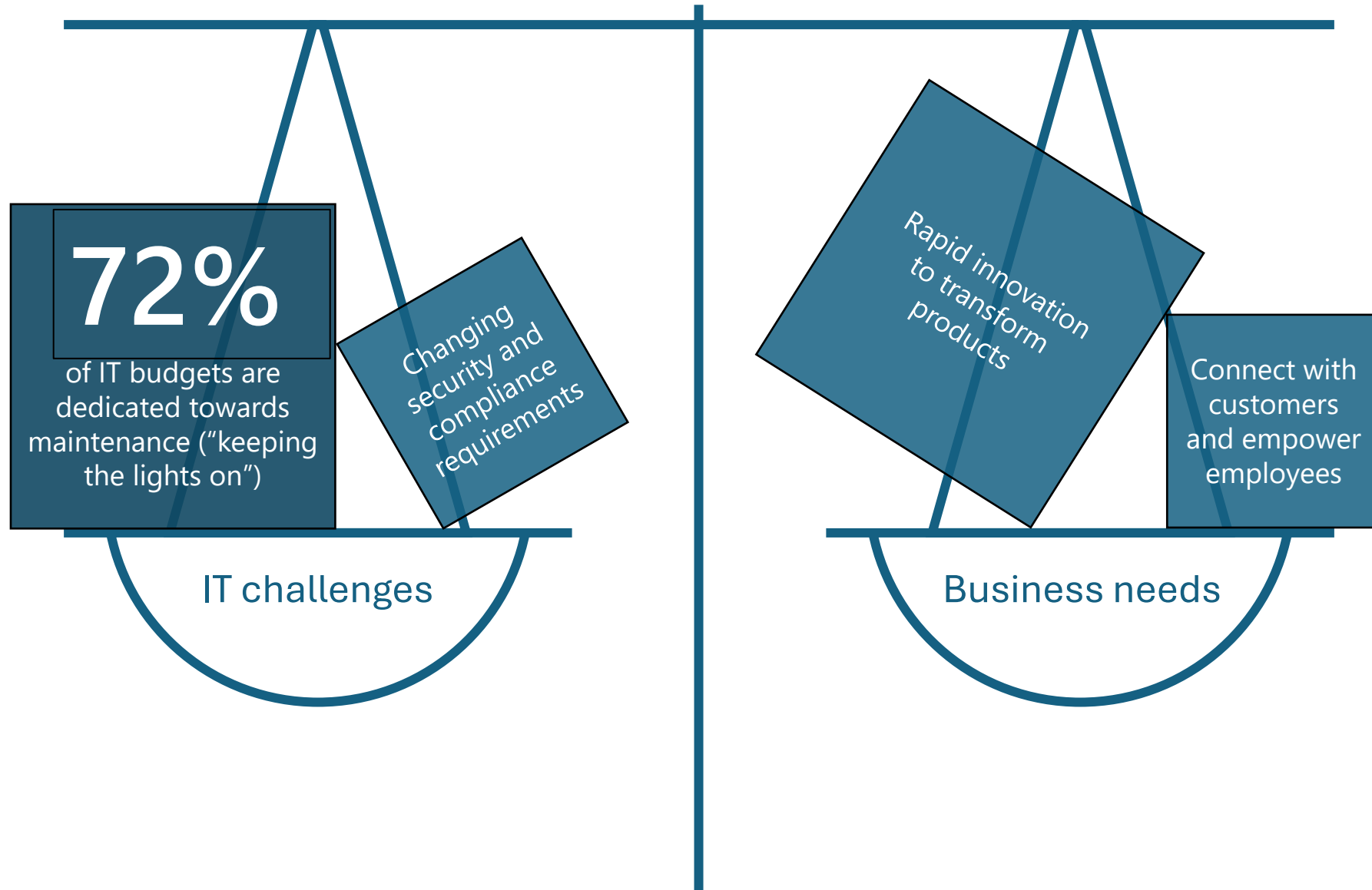
- [Azure compute-decision-tree](#)



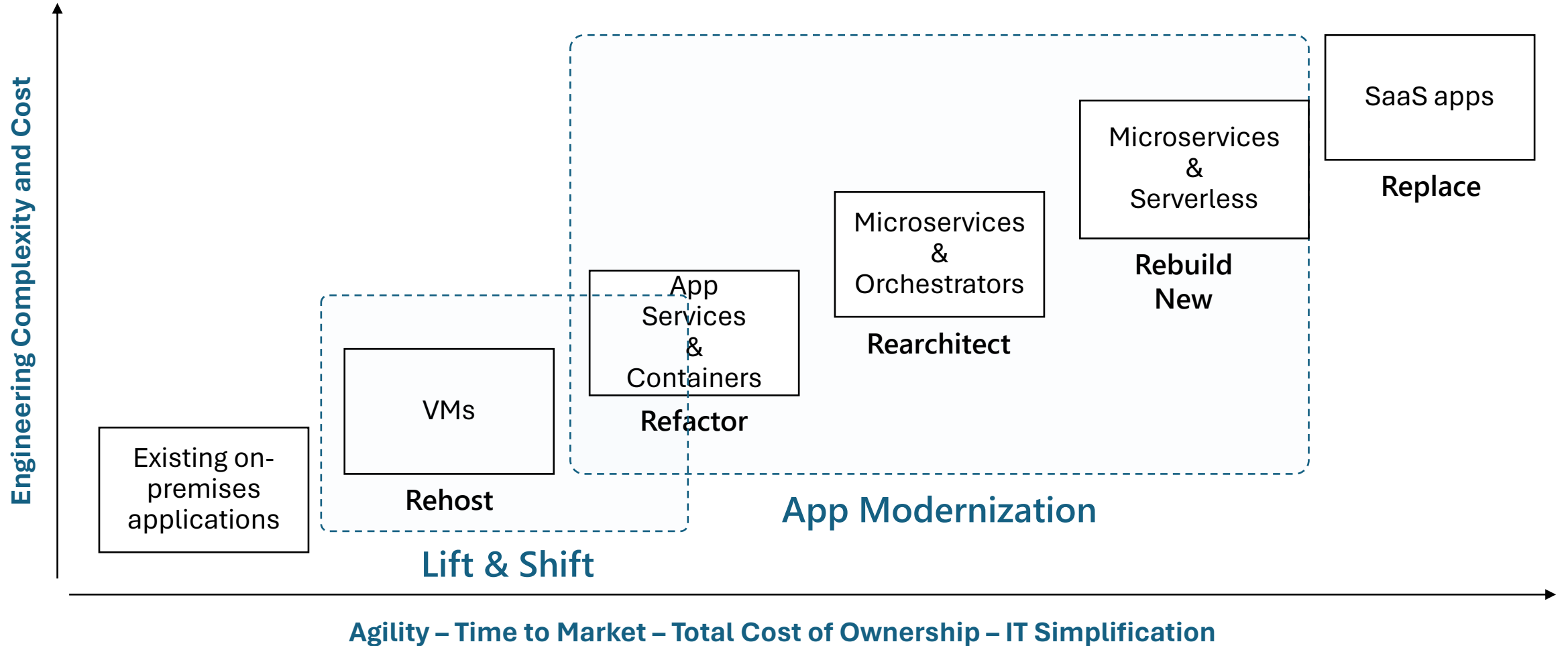
Container exclusive services		
- Azure Batch	- Azure Spring Apps	- VMware Tanzu on Azure VM
- Azure Functions	- Azure Service Fabric	- Openshift on Azure VM
- Azure App Service	- Kubernetes on Azure VM	

Container compatible services	
- Azure Batch	- Azure Spring Apps
- Azure Functions	- Azure App Service
- Azure Service Fabric	

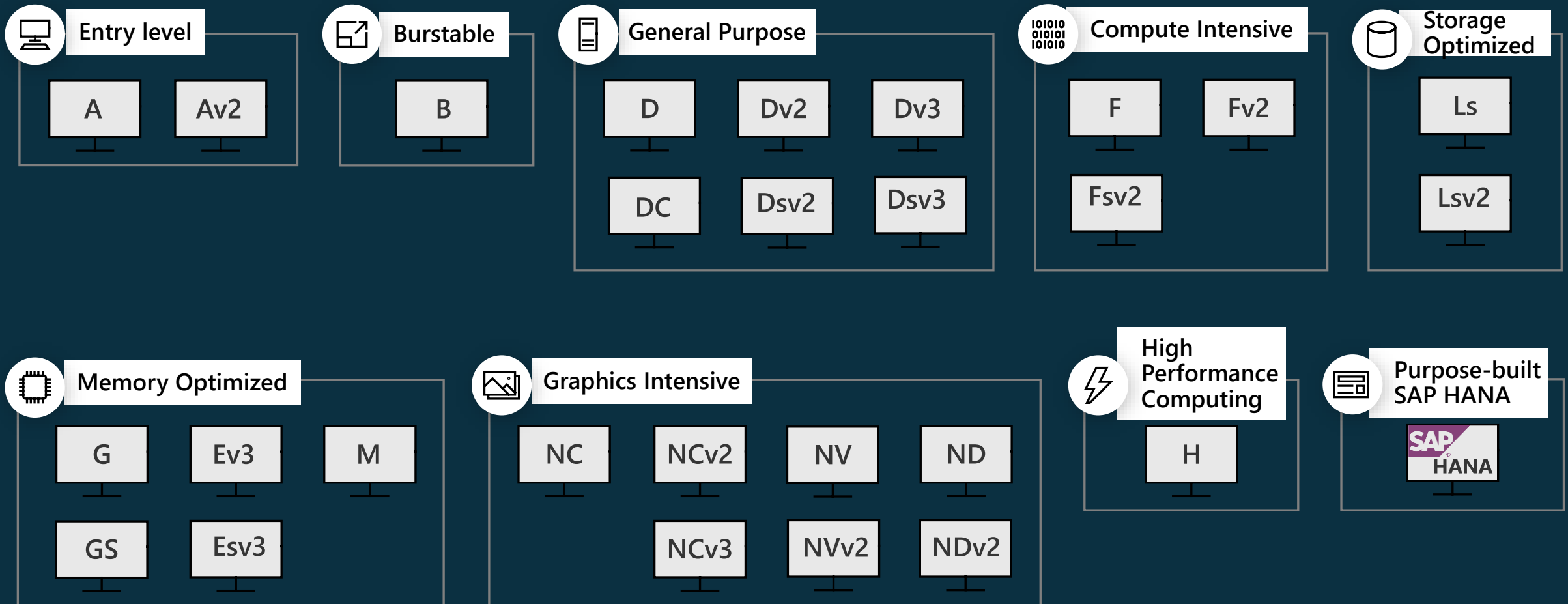
Balancing IT and business



(Hybrid) Cloud app continuum



Some compute options...



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 auto-scaling, 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.

If you just need to migrate .NET Web Apps:



App Service Migration Assistant

Move your ASP.NET App or Site to Azure app service with the help of the Azure App Service Migration Assistant.

Azure App Service migration tools

Quickly assess your web apps and migrate them to Azure with free, easy-to-use tools

Get a free compatibility report for your external app

Run a scan on your web app's public URL for a report of the technologies it uses and whether App Service fully supports them. If compatible, you'll be guided to download the migration assistant to simplify your migration.

Assess your web app for migration now.

Enter a public URL (https://)

[Assess](#) [Chat with Sales](#)

Assess

Quickly and easily determine if a public endpoint is a good candidate for App Service.

Migrate

Download the tool to do a detailed assessment of your ASP.NET site and then use the tool to quickly and easily migrate your content and config to Azure App Service.

Optimize

Dedicated migration experience in the portal analyzes your apps and provides detailed configuration guidance.

<https://appmigration.microsoft.com/>

Not only for .NET Web Apps



App Service migration assistant

Migrate .NET web apps from
Windows OS to App Service.

[Documentation >](#)

[Download now >](#)



App Service migration assistant for Java on Apache Tomcat (Linux— preview)

Download prerelease
software to migrate Java



App Service migration assistant for Java on Apache Tomcat (Windows— preview)

Download prerelease
software for migrating Java



App Service migration assistant for PowerShell scripts

Download prerelease
PowerShell scripts for
discovering and assessing all
Microsoft Internet
Information Services (IIS)

Containers in Azure



App Service

Deploy web apps or APIs using containers in a PaaS environment



Kubernetes Service

Scale and orchestrate containers using Kubernetes



Container Instance

Elastically burst from your Azure Kubernetes Service (AKS) cluster



Container Apps

Host managed microservices and containerized applications on a serverless platform.



Azure Container Registry



Docker Hub



GitHub Packages

Other registries



Ecosystem

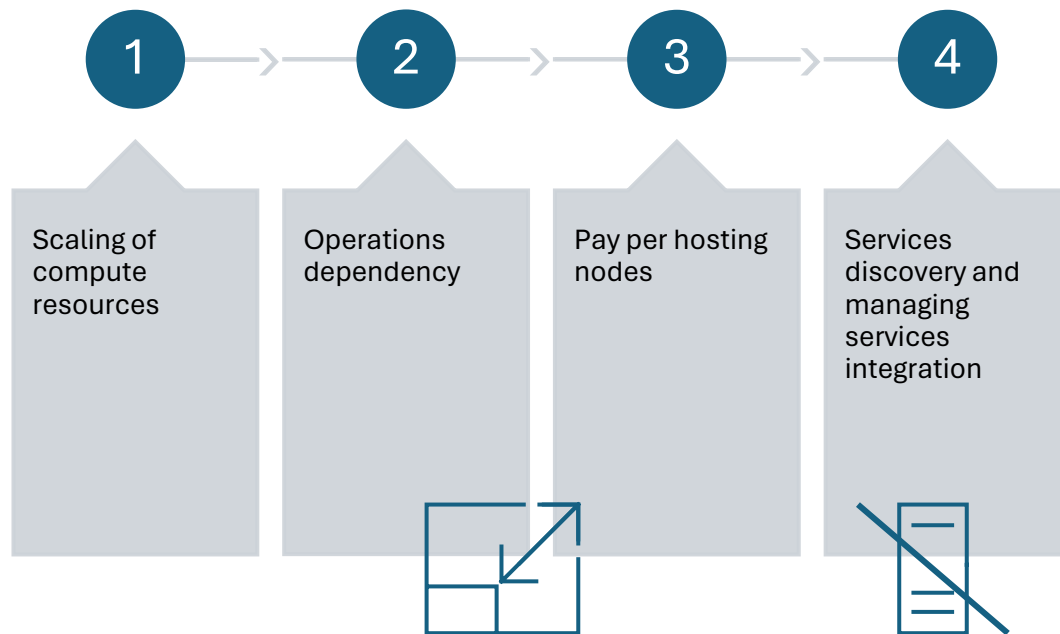
Bring your Partner solutions that run great on Azure

"No one has ever been fired for choosing AKS..."

Are you sure that K8S is the right choice for your workload?

Why is Serverless a great fit for Microservices?

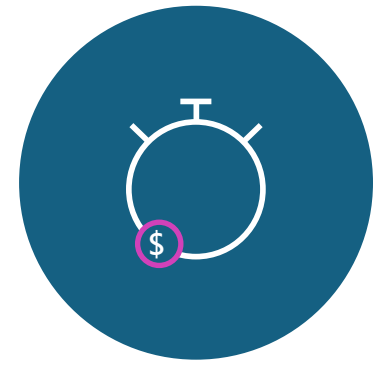
Problems of traditional microservices



Serverless solution

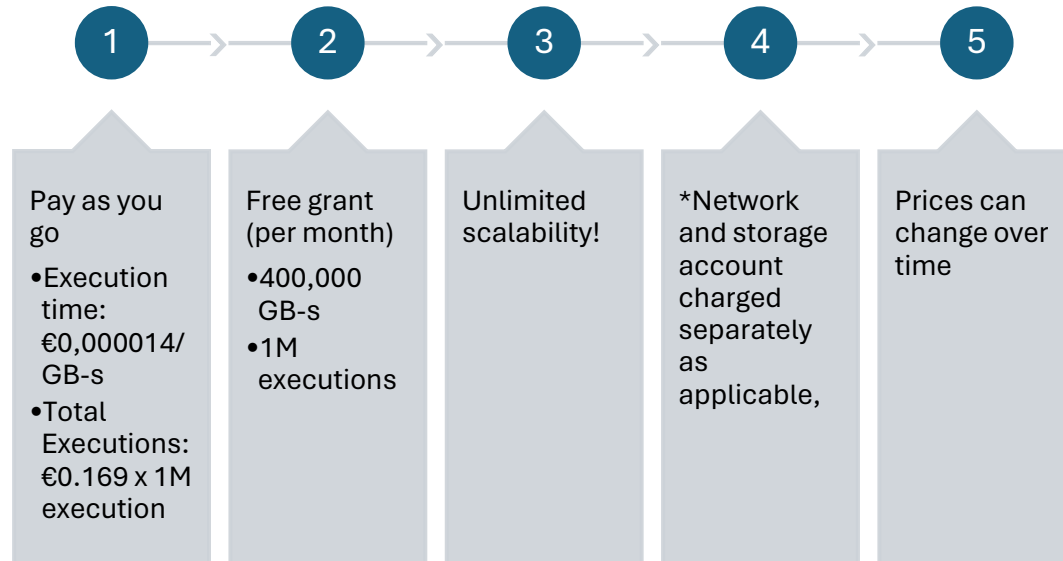
- Automatic scaling based on workload
- No infrastructure management
- Pay per execution
- Event-based programming model (triggers + bindings)





Did we say «Micro-billing»?

Function Consumption Plan



App Service Plan

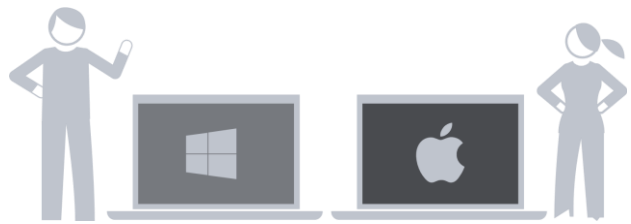
- Calls are «capped» by the App Service Plan
- VNET, unlimited duration, VS live debug

Premium Plan

- Best of both worlds

Other useful services

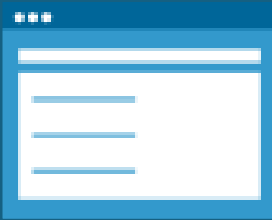




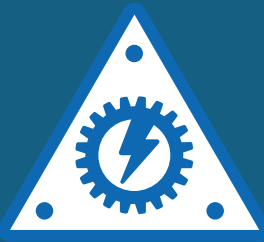
DEVELOPERS



AZURE API MANAGEMENT



Customizable Portal



Gateway



Azure portal



APPS



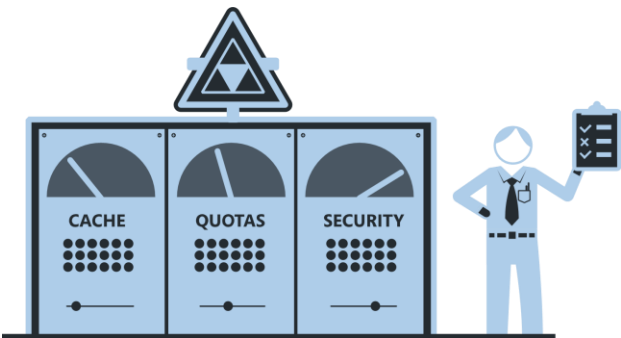
DIRECT OR VPN

BACKEND APIs



Hosted **anywhere**.

Developed using **any** technology.

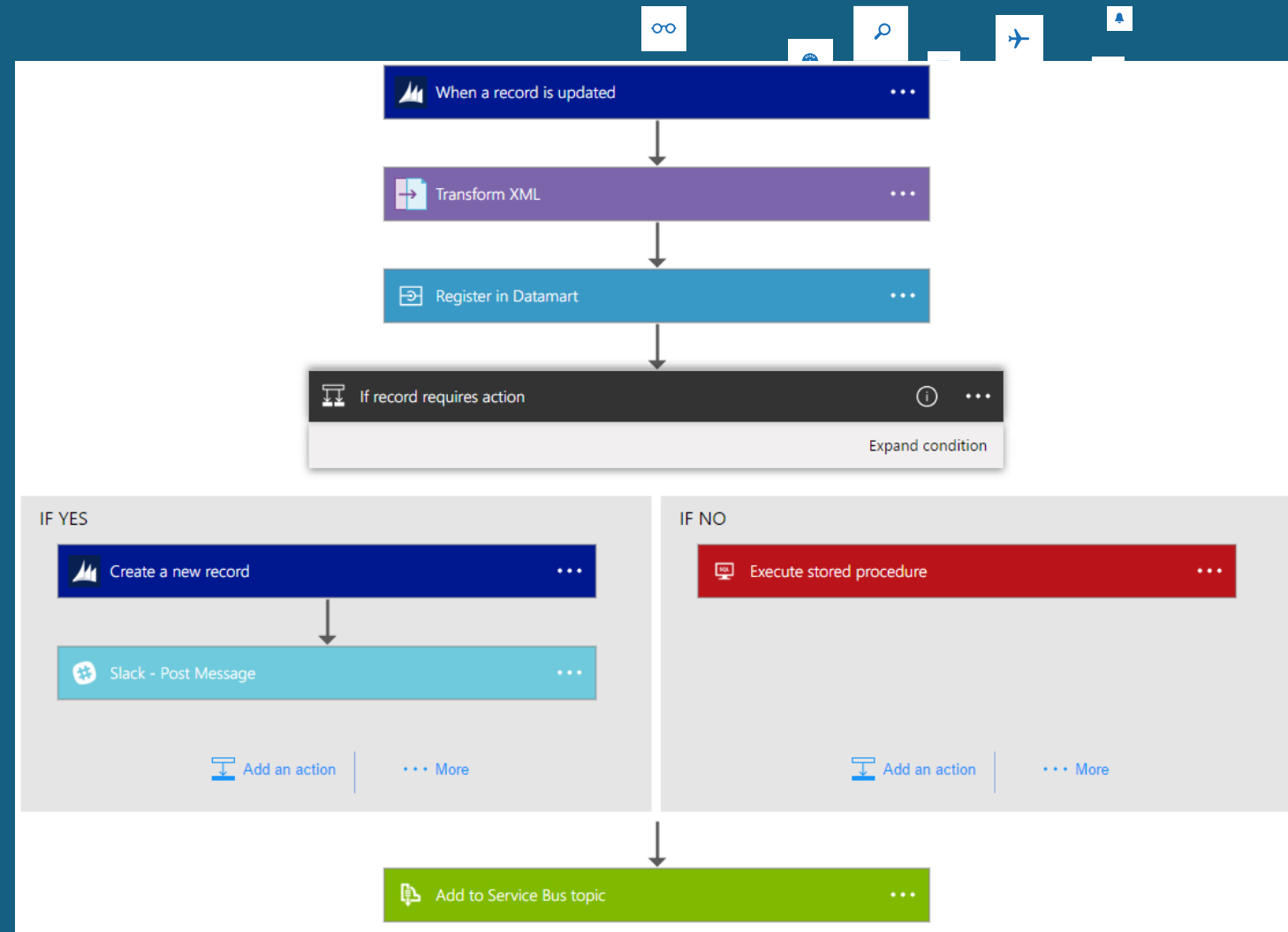


API PUBLISHERS

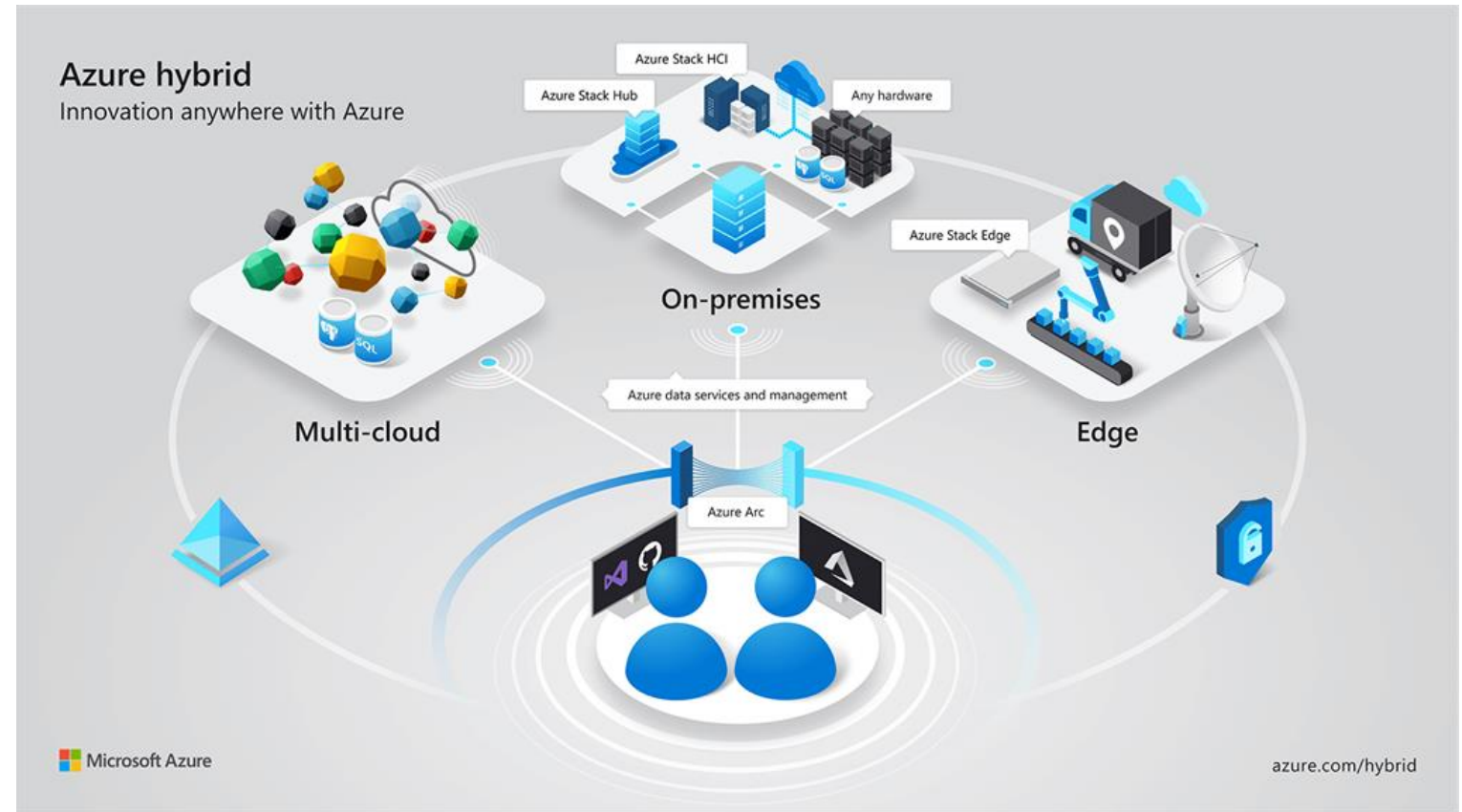
Logic Apps

Automate business processes in the cloud

- Serverless
- Create business processes and workflows visually
- Integrate with SaaS and enterprise applications
- Unlock value across on-premises and cloud
- Automate EAI, B2B/EDI, and business processes
- Leverage Integration Platform as a Service (iPaaS)
- Can execute JS code inside blocks.



The world is
hybrid...
Azure is
hybrid, too!

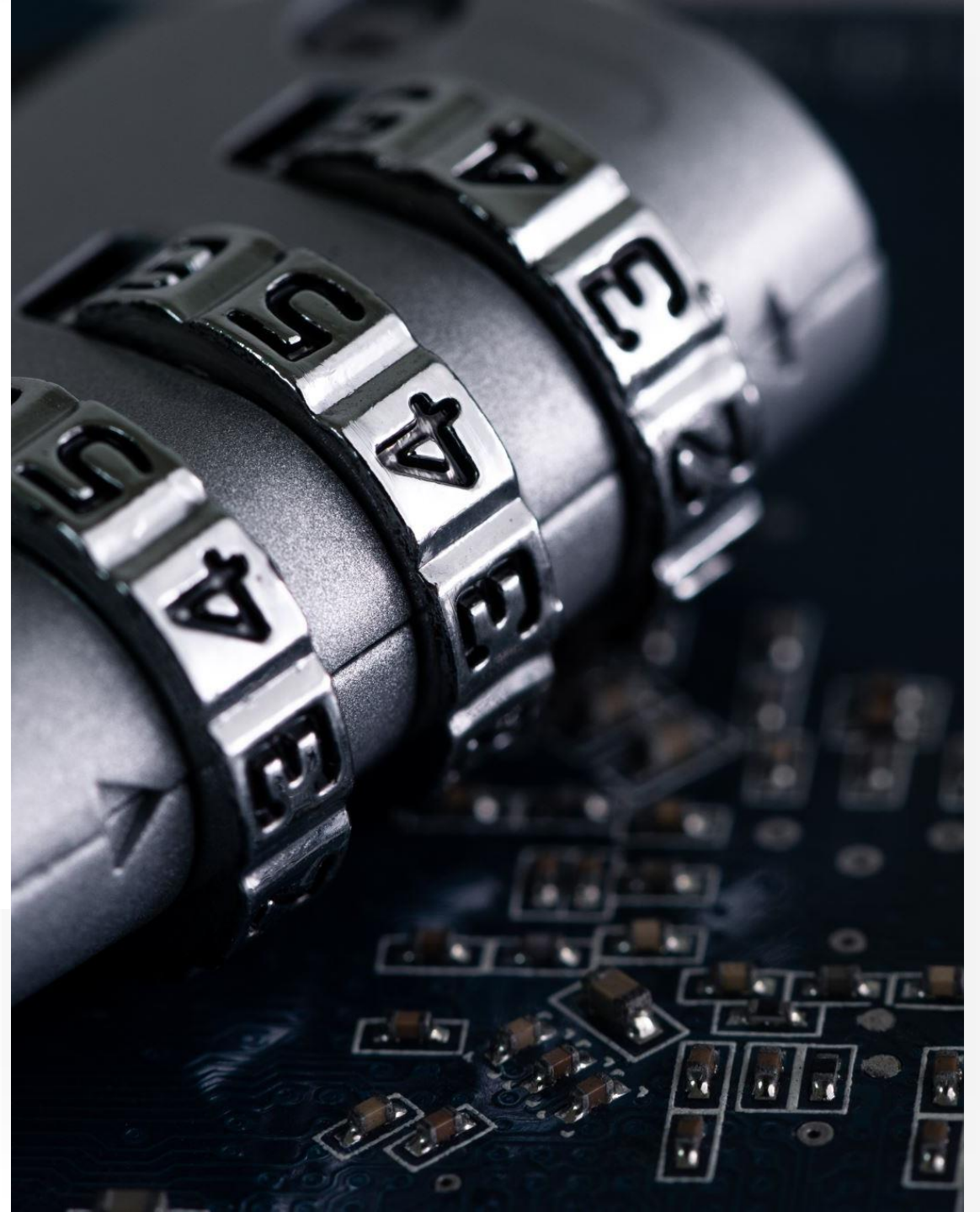


What about Data?

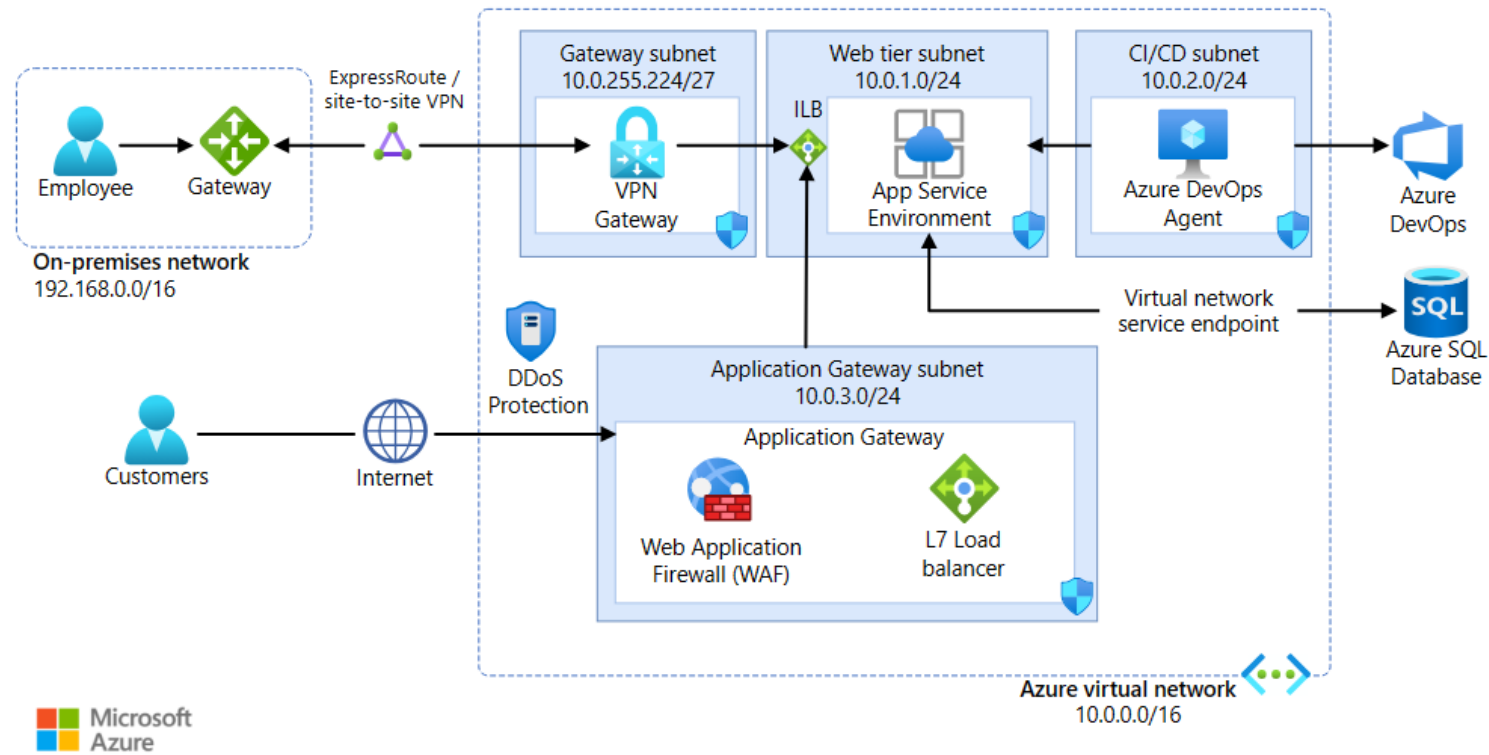
**It's a long story for
a single session**

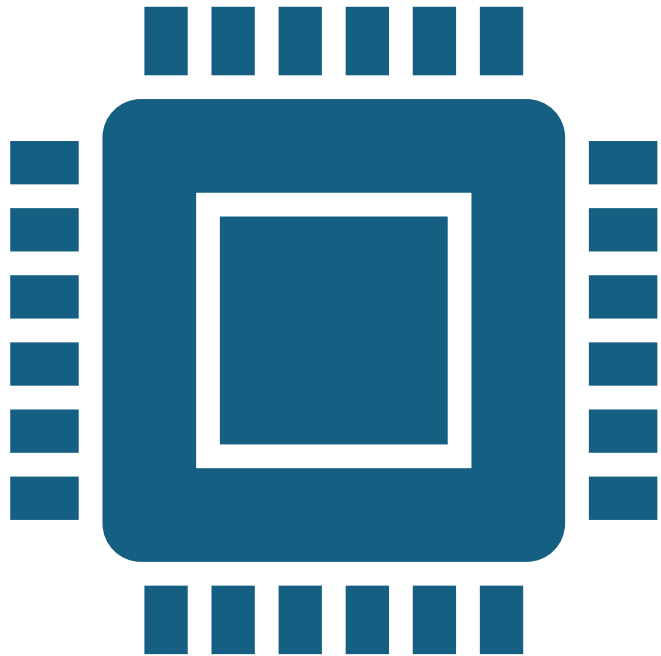


What about
security?



Securely managed web applications



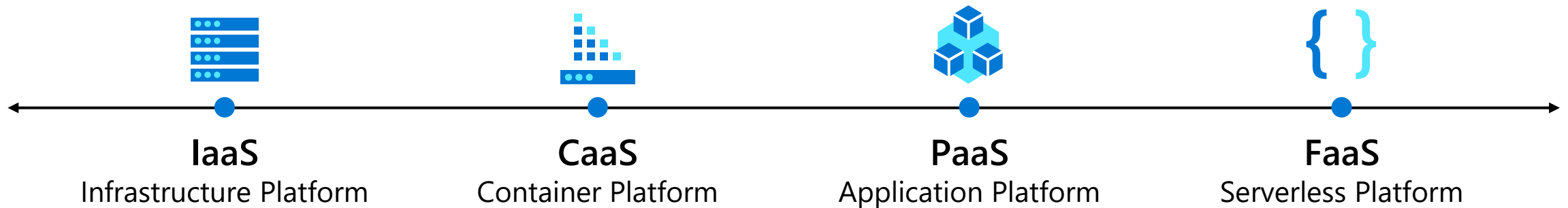


ACT NOW

- After 31 August 2024, you must upgrade to App Service Environment v3
- App Service Environment v1 and v2 will **no longer be supported**
- Applications running on ASE v1 and v2 **will be deleted.**
- Associated application **data will be lost.**
- Please find official notification [here](#)

We are almost there...

Running your Apps on Azure



Technologies

Virtual Machines, VM Scale Sets

Azure Kubernetes Service, Azure Container Apps, Azure Container Instances, etc..

Azure App Service, Azure Spring Apps

Azure Functions, Azure Logic Apps, Azure Static Web Apps, etc...

What you get

Curated VM Hosting

Curated Orchestration

Curated Execution Environment

Scale to 'zero'

Thank you!