SoftwareOne
Cloud Experience Webinar:

Application Modernization su Azure

Come sfruttare Azure App Services e Azure Functions e dimenticarsi delle macchine virtuali!

Quali sono i servizi Azure che crescono di più in Italia?

Perché si parla così poco di questi servizi?

Ma non c’è il problema del Lock-In quando usiamo i servizi PaaS?

Modernization ❤ App Services & Azure Functions

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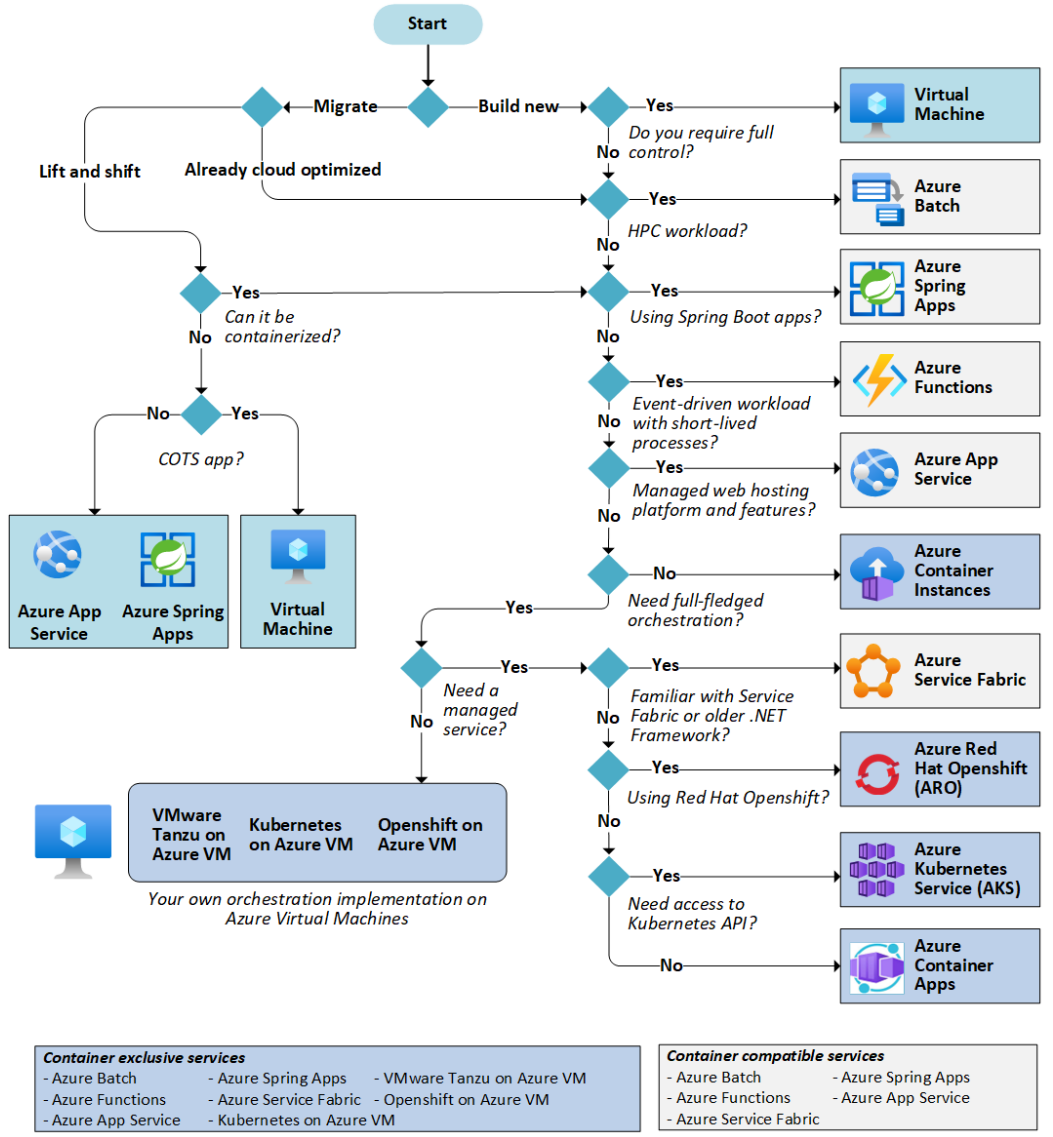
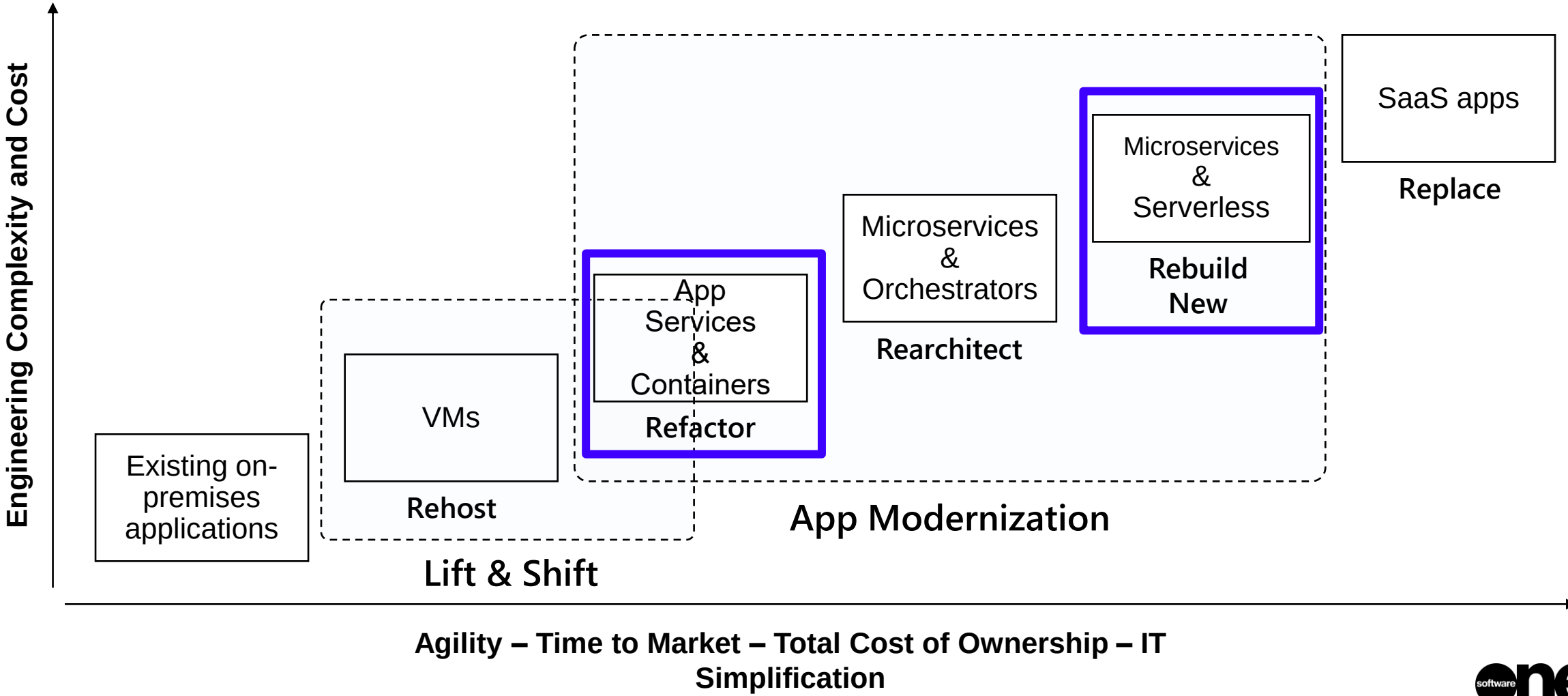
The Paradox of Choice

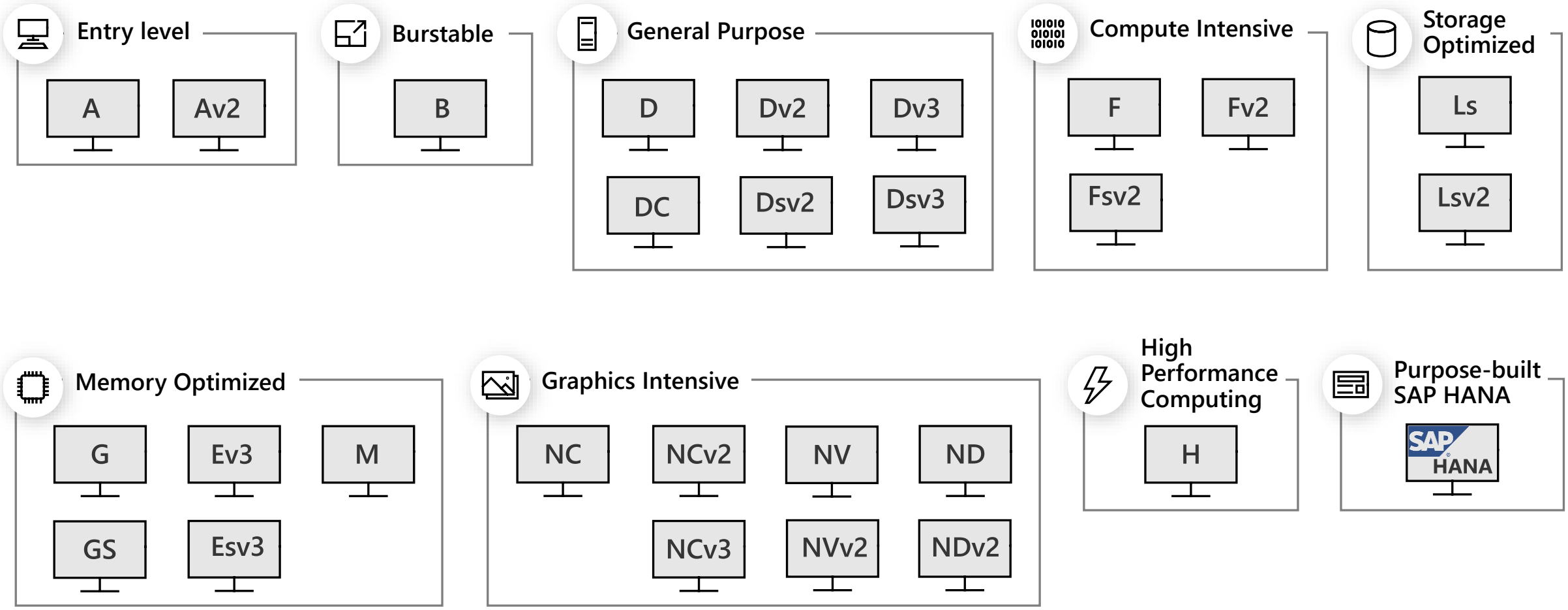
https://learn.microsoft.com/en-us/azure/architecture/guide/technology-choices/compute-decision-tree



(Hybrid) Cloud app continuum



You must know your enemy!



https://azure.microsoft.com/en-us/pricing/vm-selector/

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.

First look at App Service

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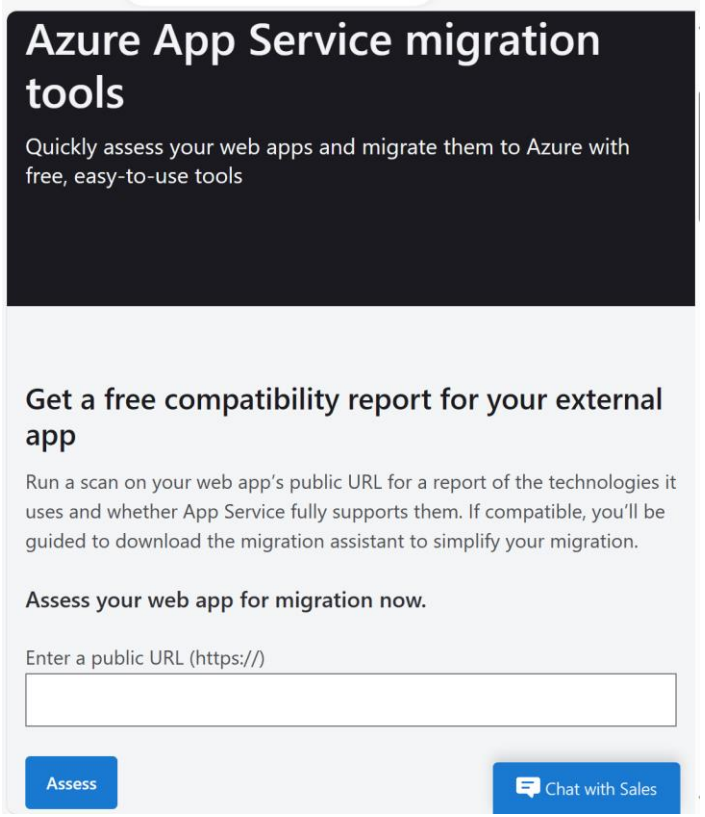
If you just need to migrate .NET Web Apps:

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.



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

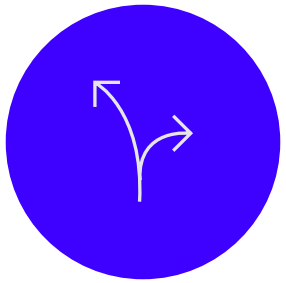
App Service migration assistant for PowerShell scripts

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

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

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Why is Serverless a great fit for Microservices?

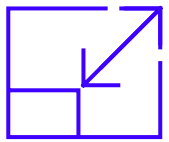
Problems of traditional microservices

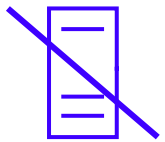
Scaling of compute resources

Operations dependency

Pay per hosting nodes

Services discovery and managing services integration





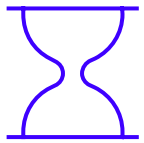
Serverless solution

Automatic scaling based on workload

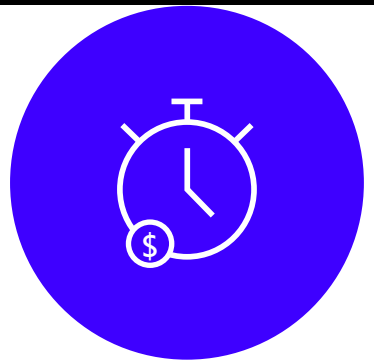
No infrastructure management

Pay per execution

Event-based programming model (triggers + bindings)



Did we say «Micro-billing»?



Function Consumption Plan

- Pay as you go
- Execution time: €0,000014/GB-s
- Total Executions: €0.169 x 1M execution
- Free grant (per month)
- 400,000 GB-s
- 1M executions
- Unlimited scalability!
- *Network and storage account charged separately as applicable,
- Prices can change over time

App Service Plan

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

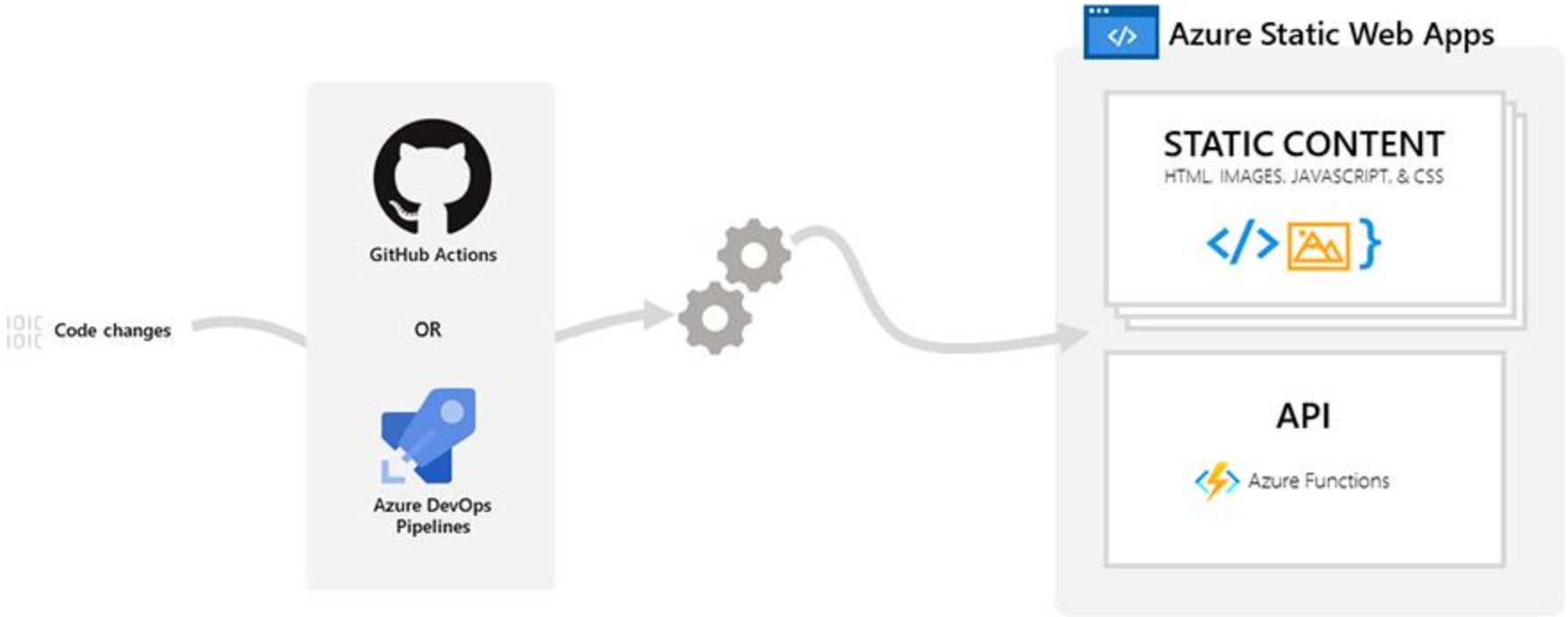
Premium Plan

- Best of both worlds

First Look at Azure Functions

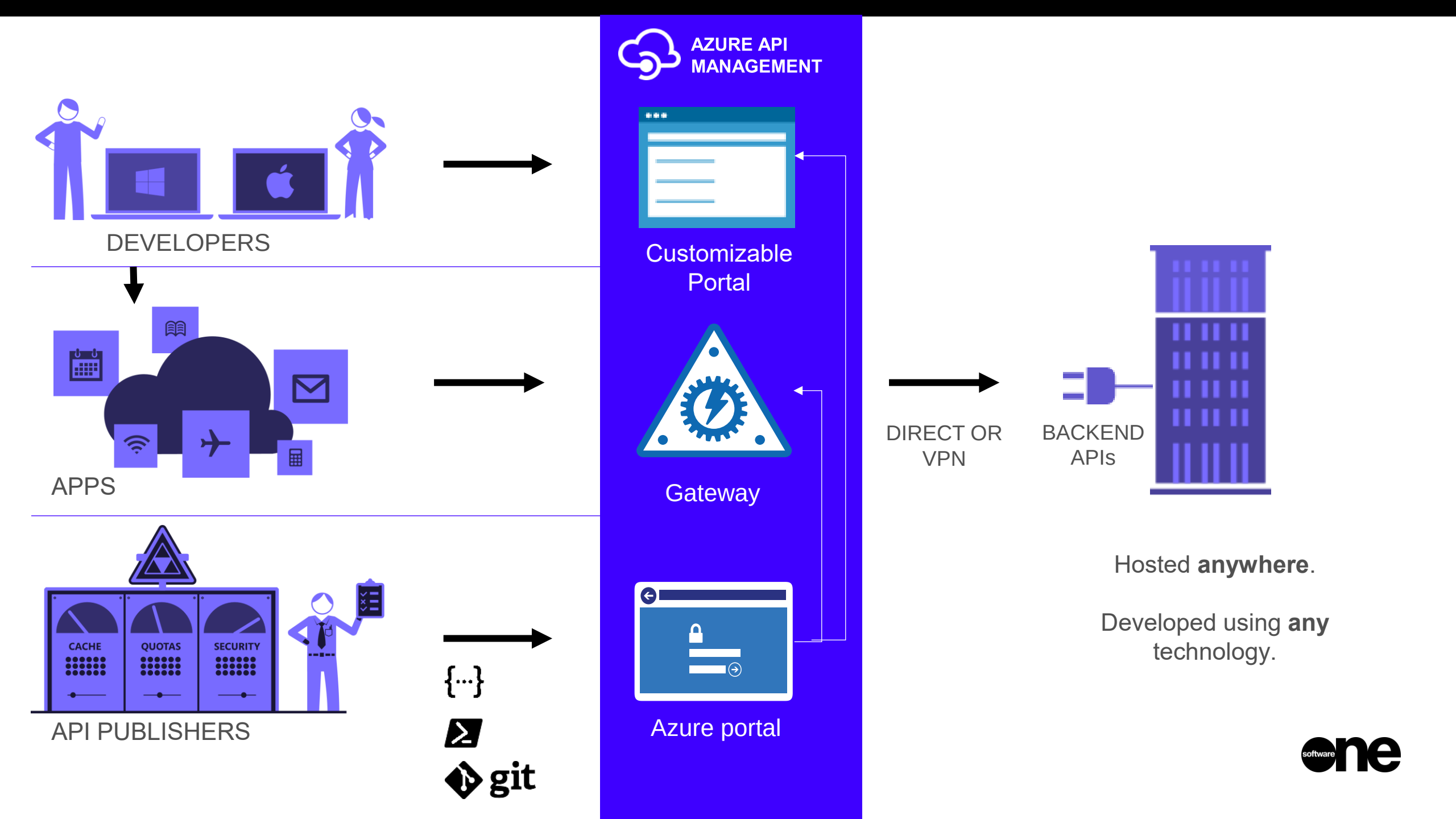
Other useful services

Static Web Apps



Static Web Sites != Static Web Apps

- Static Web Sites are based on Blob Storage


AZURE API MANAGEMENT
DEVELOPERS
APPS
API PUBLISHERS
CACHE
QUOTAS
SECURITY
Customizable Portal
Gateway
Azure portal
DIRECT OR VPN
BACKEND APIs
Hosted anywhere.
Developed using any technology.
git

Logic Apps
Automate business processes in the cloud

Serverless

Create business processes and workflows visually

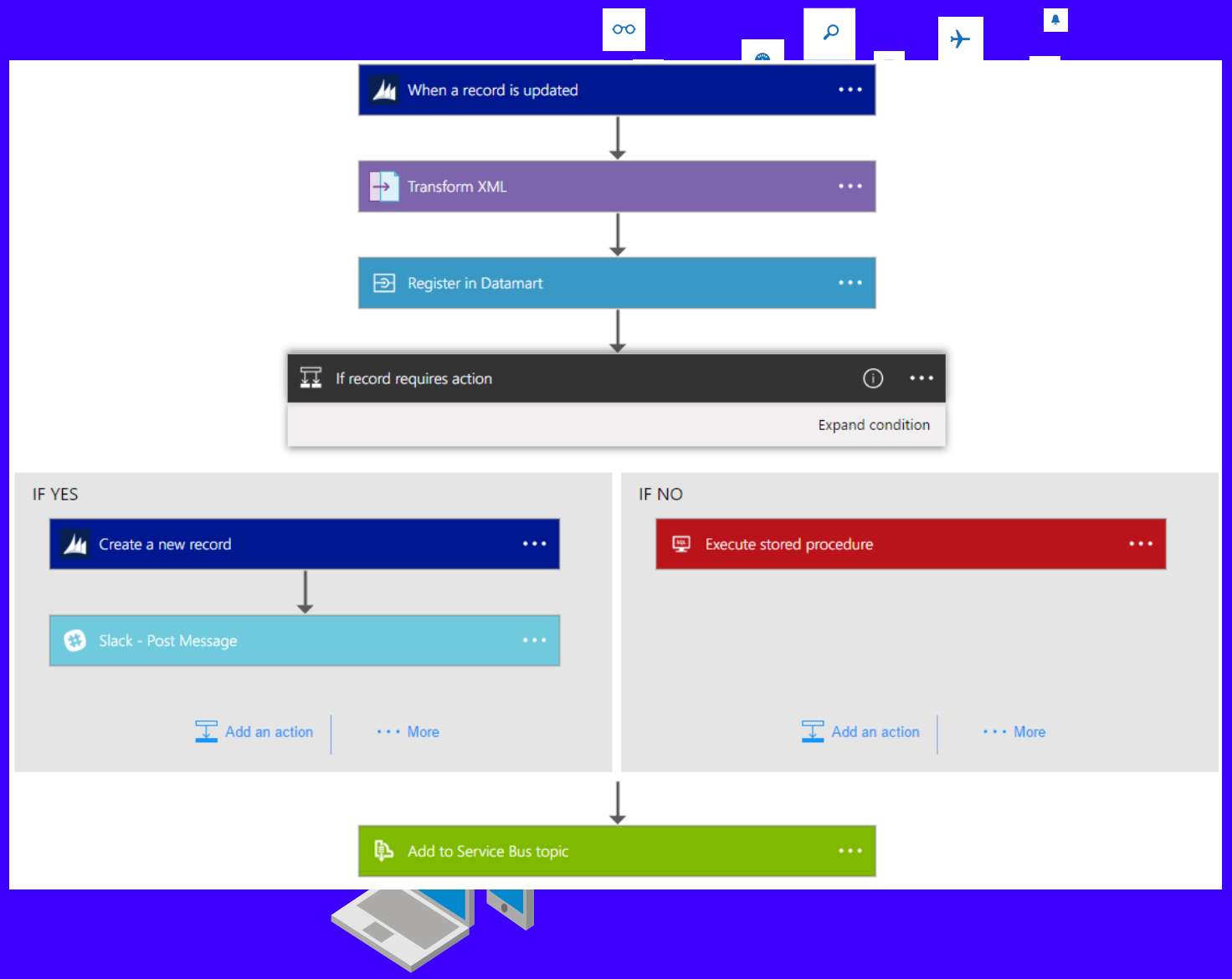
Integrate with SaaS and enterprise applications

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.



Save the Date!

28/5

Cloud Experience Webinar

Application Modernization using Containers

Grazie!

Q&A

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