

# Azure Web Apps: start simple, code smart, go live!

Microsoft Azure Community – Quebec city

# Agenda

1 ➤ Introduction

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5 ➤ Go further!

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2 ➤ Azure

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6 ➤ Conclusion & References

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3 ➤ Azure App Service

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4 ➤ Let's demo!

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# Introduction

➤ 1 2 3 4 5 6 7 8

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# And more...

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- Promote AzureQC Meetup
- Discuss around Microsoft Azure
- Solicit discussions, questions, ideas, etc.
- Find next presenter? ;)

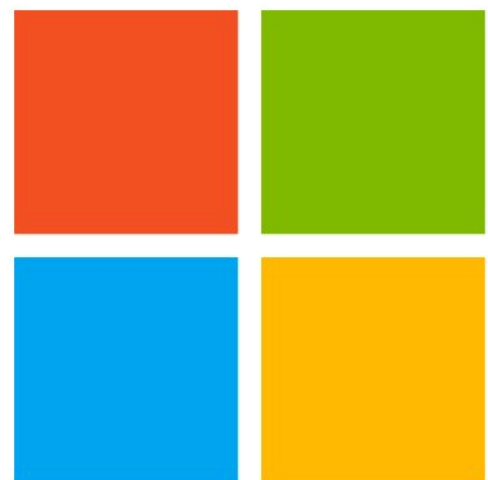
# Microsoft Azure Community – Quebec city

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- Bring together people
- Share knowledge, experience and challenge about Microsoft Azure

The Meetup logo is displayed within a red rounded rectangle. It features the word "Meetup" in a black, handwritten-style font on a white background.

Meetup



# Nurun Services conseils

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- Digital Business Platform
- Managed Services
- Total Security
- Organizational Transformation



## Microsoft Partner

Gold OEM

Gold Cloud Platform

Gold Application Development

# Mathieu Benoit

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- IT Solution Architect
- MCSD Web
- MCSD Azure
- ALM and DevOps enthusiast



[My LinkedIn profile](#)



[My personal blog](#)



# Azure

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# Why the cloud?

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Speed



Rapidly setup  
environments to  
drive business  
priorities

Scale



Scale to meet peak  
demands

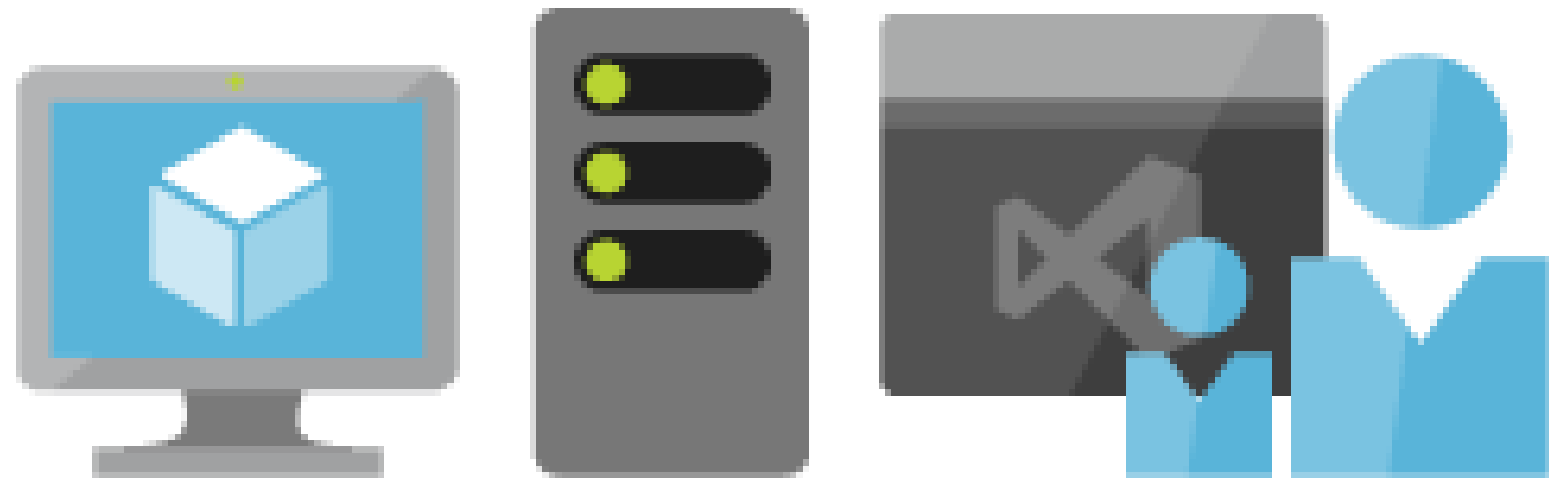
Economics



Increase daily  
activities to be  
efficient and reduce  
cost.

# Microsoft Azure

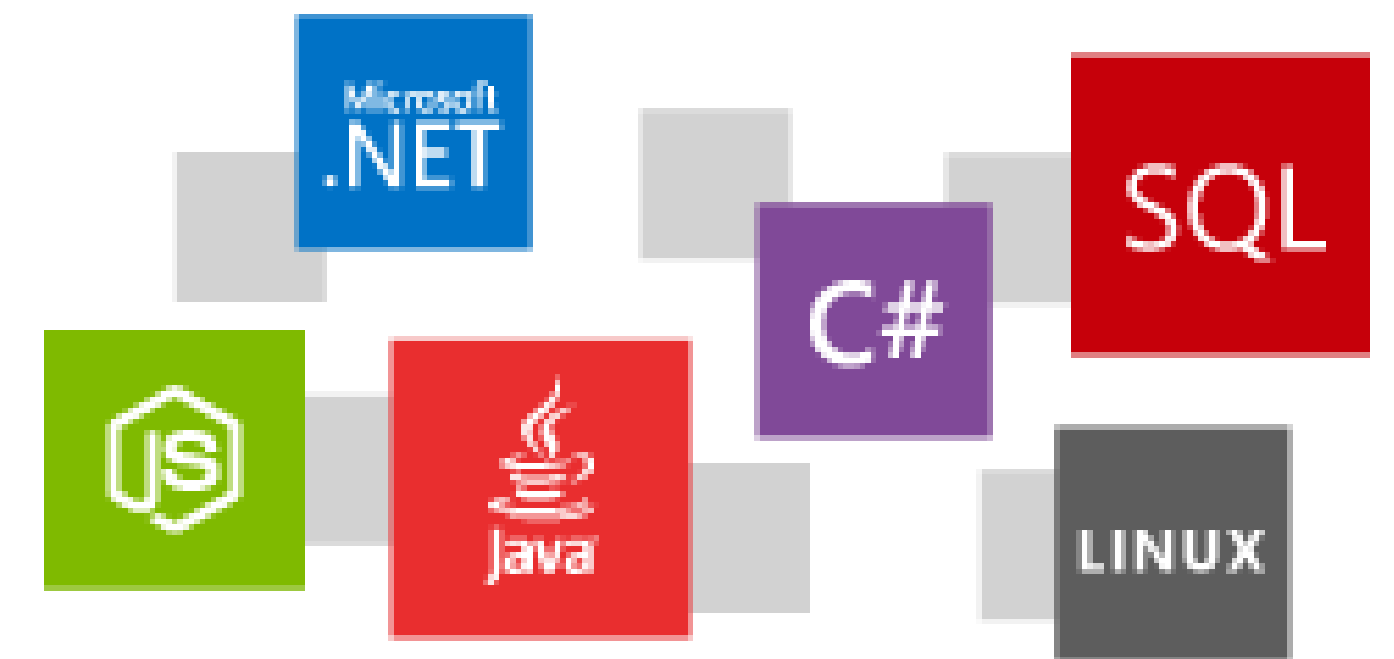
IaaS & PaaS



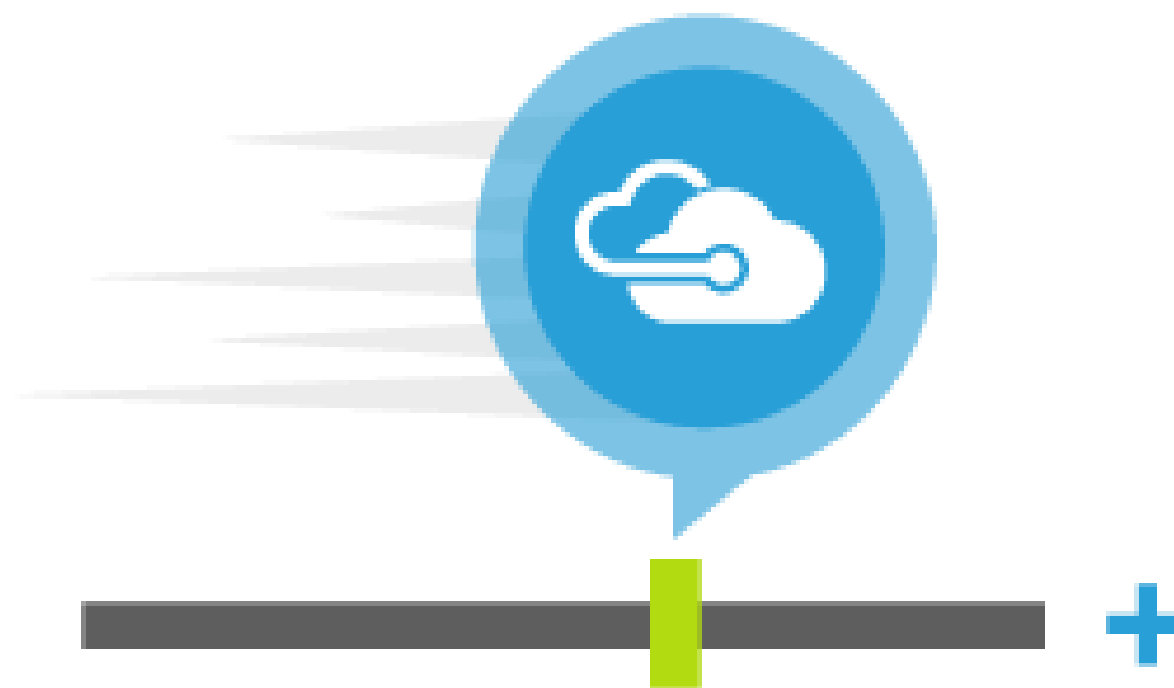
Hybrid configuration



Open & Flexible



Availability

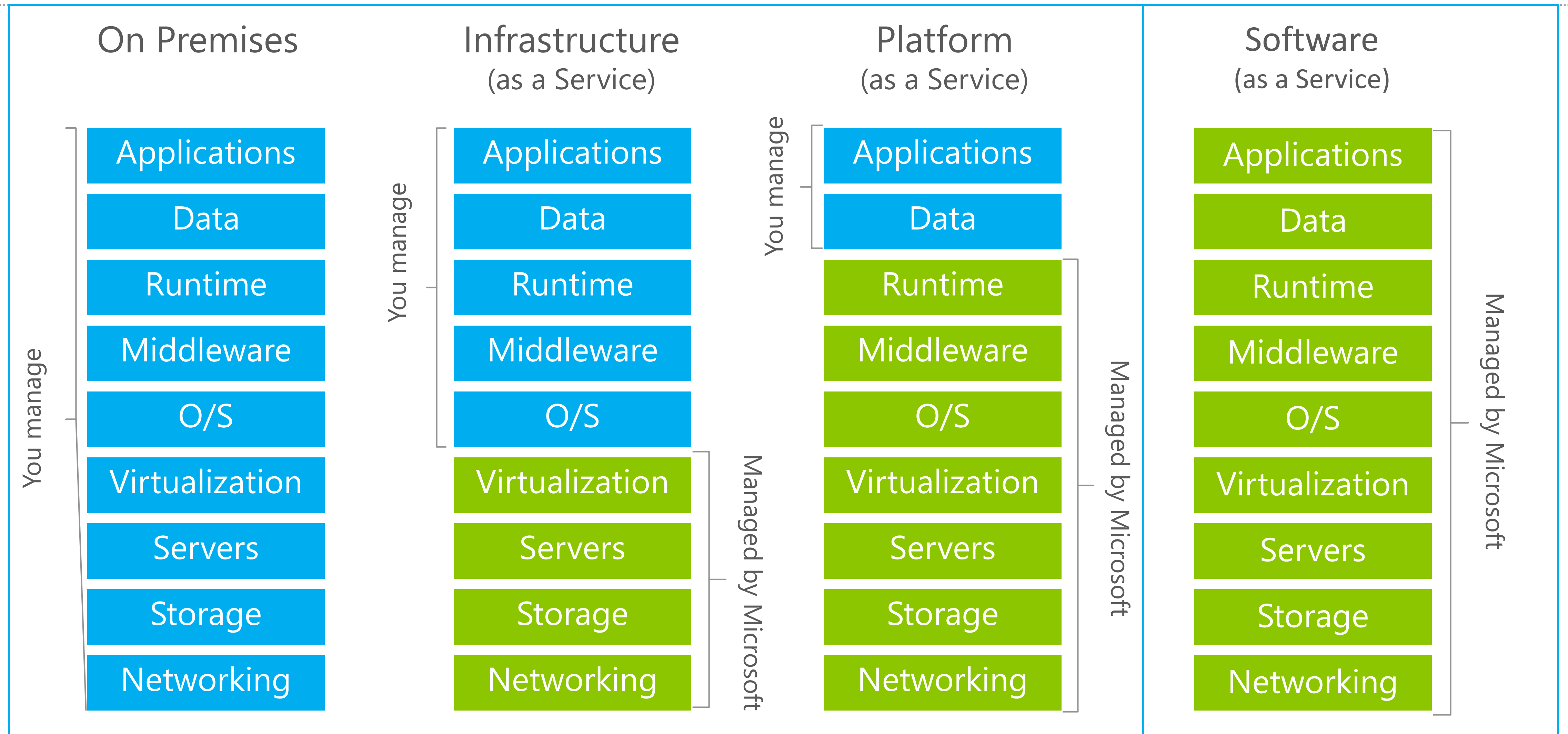


Scalability



All around the world

# On Premise, IaaS, PaaS & SaaS



## Platform Services

### Security & Management

- Service Creation & Configuration
- User/Group Directory Store
- Identity Sign-Up and sign-in
- Multi-Factor Authentication
- Scheduled Service Management
- Task Scheduler
- Encryption Key Store
- Software/Solution Marketplace
- Pre-Build VM Images

### Services Compute

- Stateless Compute
- Distributed Compute
- Scheduled Compute Jobs
- Virtual App Streaming

### Integration

- Simple Queuing
- B2B Integration
- Hybrid Connections
- Pub/Sub Queuing

### Media & CDN

- Live & OD Media Streaming
- Content Delivery Network (CDN)

### Web and Mobile

- Web Apps Infrastructure
- API App Infrastructure
- Mobile Backends
- Business Process Automation
- API Management
- Push Notifications

### Developer Services

- Development Tools
- Software Development Kits
- Software Lifecycle Management
- Application Instrumentation

### Data

- Relational SQL Database
- Data Warehouse
- Document Database Service
- Distributed In-Memory Cache
- Search
- Simple Key/Value Store

### Analytics & IoT

- Big Data Analytics
- Predictive Analytics
- Data Stream Analytics
- Big Data Storage
- Data Pipelines
- Device Data Collection
- Data Source Management
- IoT Device Management
- Mobile Analytics

### Hybrid Operations

- Directory Health Monitoring
- Privileged Identity Management
- Domain Join & Policy Management
- Server Data Backup
- Operational Analytics
- Bulk Data Import And Export
- Disaster Recovery
- Hybrid/Intelligent Data Backup

## Infrastructure Services

### OS/Server Compute

- Virtual Servers
- Containers

### Storage

- Disk based Object/File Storage
- Shared Storage
- SSD based Object/File Storage

### Networking

- Virtual Network
- VM Load Balancer
- DNS
- Direct Network Connections
- Traffic Distribution
- VPN Gateway
- HTTP Load Balancer



# Azure App Service

4 Azure Services for one integrated offering

1 2 ➤ 3 4 5 6 7 8

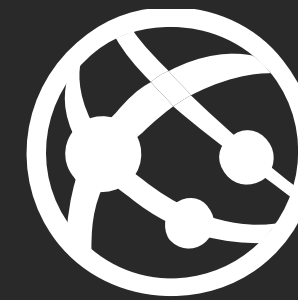
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# Azure App Service

One integrated offering



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## Web Apps

Web apps that scale  
with your business



## Mobile Apps

Build Mobile apps  
for any device



## LOGIC Apps

Automate business process  
across SaaS and on-premises



## API Apps

Easily build and consume  
APIs in the cloud

# <https://tryappservice.azure.com>

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1) Select your App Service

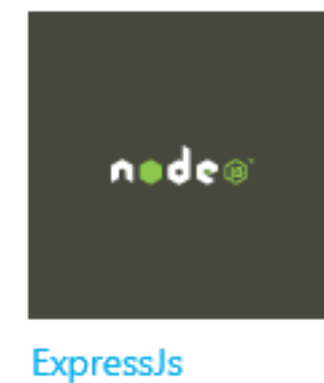


Free

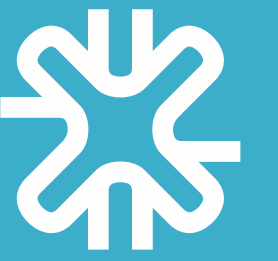
No Signup or  
Account Required

2) Select a template and create your web app

Change language:



Create →



# Let's demo!

Let's play with Azure Web Apps

1 2 3 ➤ 4 5 6 7 8

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# Demo script

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- Create a Java web app with [tryappservice.com](http://tryappservice.com)
  - Browse the site available for 1h or 24h – Java Coffee Shop
  - Navigate into Azure portal and see/play with it
  - For example, go to the App Service Editor to browse the web app folder (wwwroot)
- Create an empty Web Apps with the portal
  - Browse, see and play with some useful settings and features: Scale up/down the App Service Plan, Scale in/out instances, run Performance Tests, set app settings and connection strings, check and define Metrics and Alerts, configure custom domains and SSL certificates, manage deployments options, use diagnostic and kudu tools, etc.
- Publish a local ASP.NET MVC app to an Azure Web Apps with Visual Studio
  - Deploy web app with associated Publish profile, browse Azure Services with the Cloud explorer view and attach the debugger to your web app deployed on Azure Web Apps.
- Manage Web Apps slots
  - Create a *staging* slot to implement a transparent swap deployment, set specific app settings and connection strings for a slot, create a *preview* slot to use the Test in Production feature, etc.

# WebJobs

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run.cmd, run.bat



run.exe



run.ps1



run.sh



run.php



run.py



run.js

Job Type: On-Demand, Scheduled, Continuous

Scale: Singleton, Multi-instance

WebJobs SDK Feature: BlobTrigger, TableTrigger, QueueTrigger, ServicebusTrigger

Deployment: Portal, Visual Studio, CLI, Git





# Go further!

## ALM & DevOps

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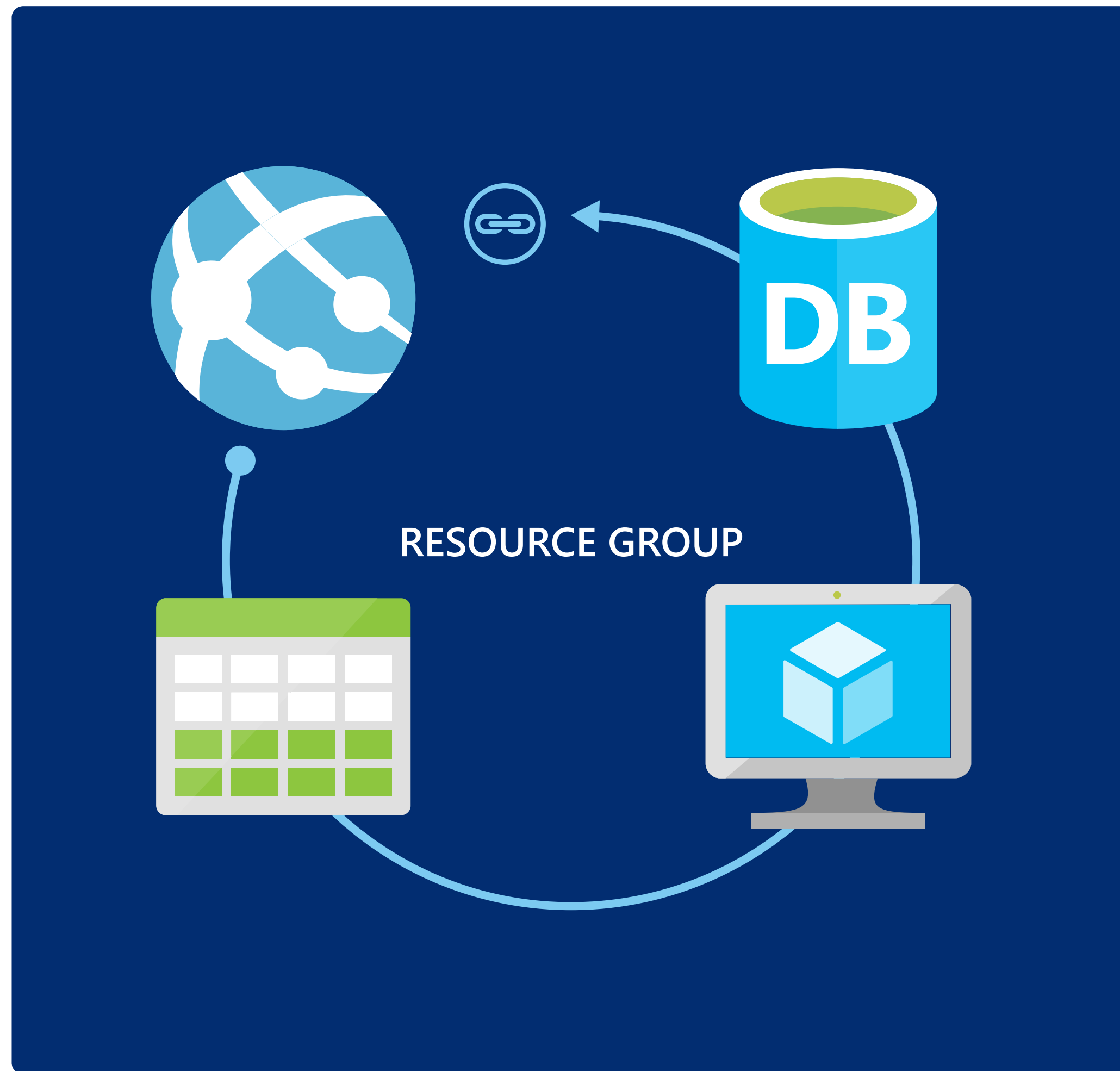
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# More services to complete your Azure Web Apps

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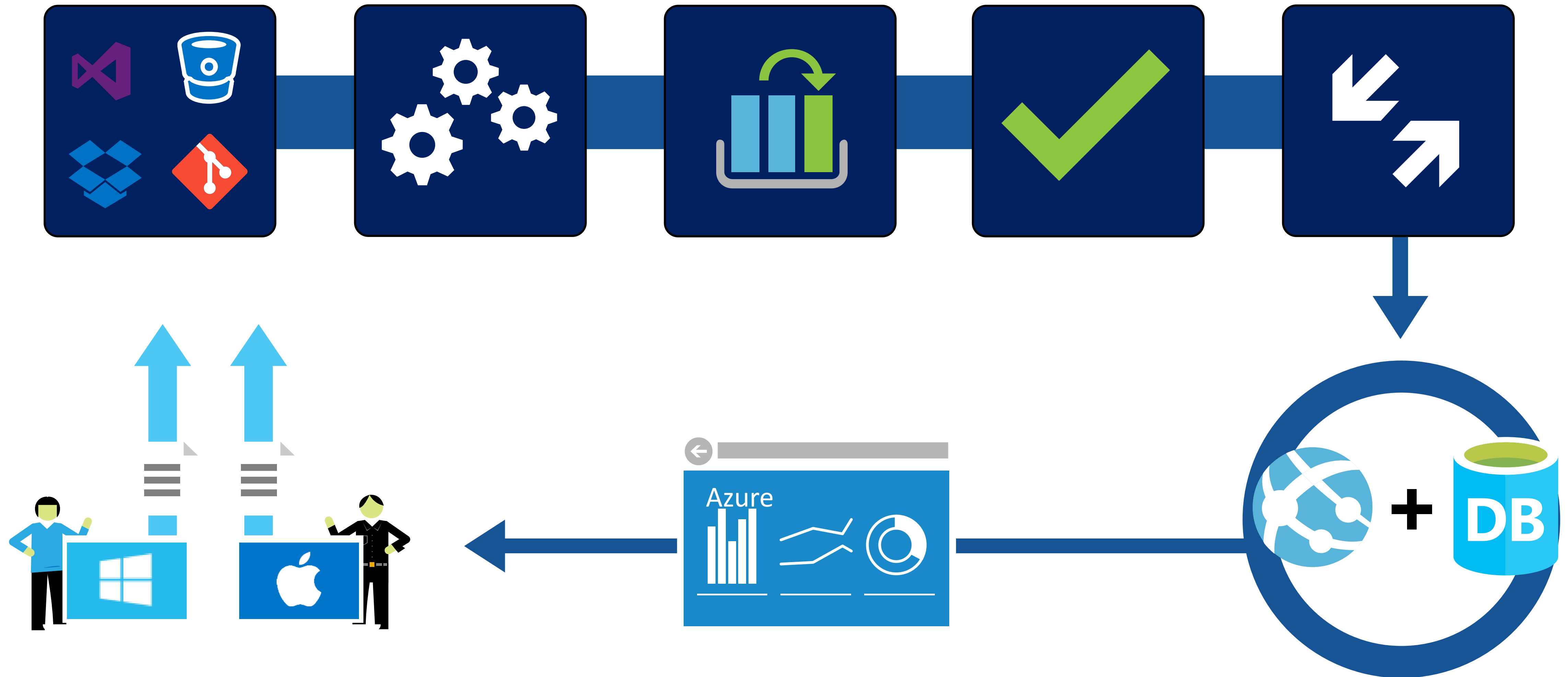
- [Azure Ressource Manager \(ARM\)](#)
  - *Scripts and automation!*
- [Azure Function](#)
  - *The new version of WebJobs!*
- [Azure Sql Database Elastic Scale](#)
  - *Sql Database as a Service in more economic/elastic way!*
- [Application Insights](#)
- [Azure Traffic Manager](#)
  - *myechoapp with Scott Hanselman! ;)*
- Redis Cache
- Logic and Mobile Apps
- Visual Studio Team Services

# Azure Resource Manager & Resource Groups

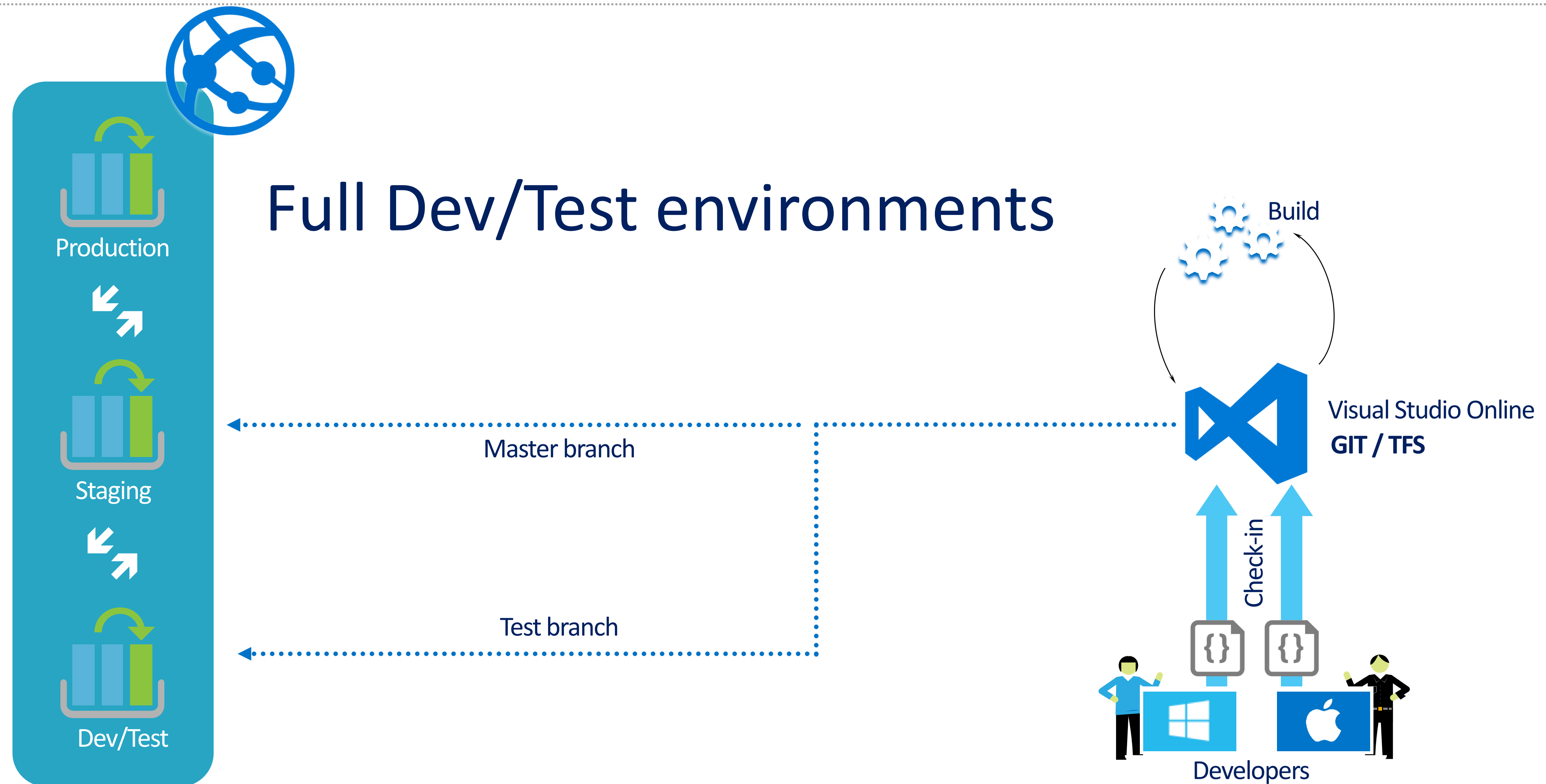


- Manage resources as a single unit
- Role based access and control (RBAC) on groups or resources
- Billing integrated tagging on groups or resources

# ALM & DevOps

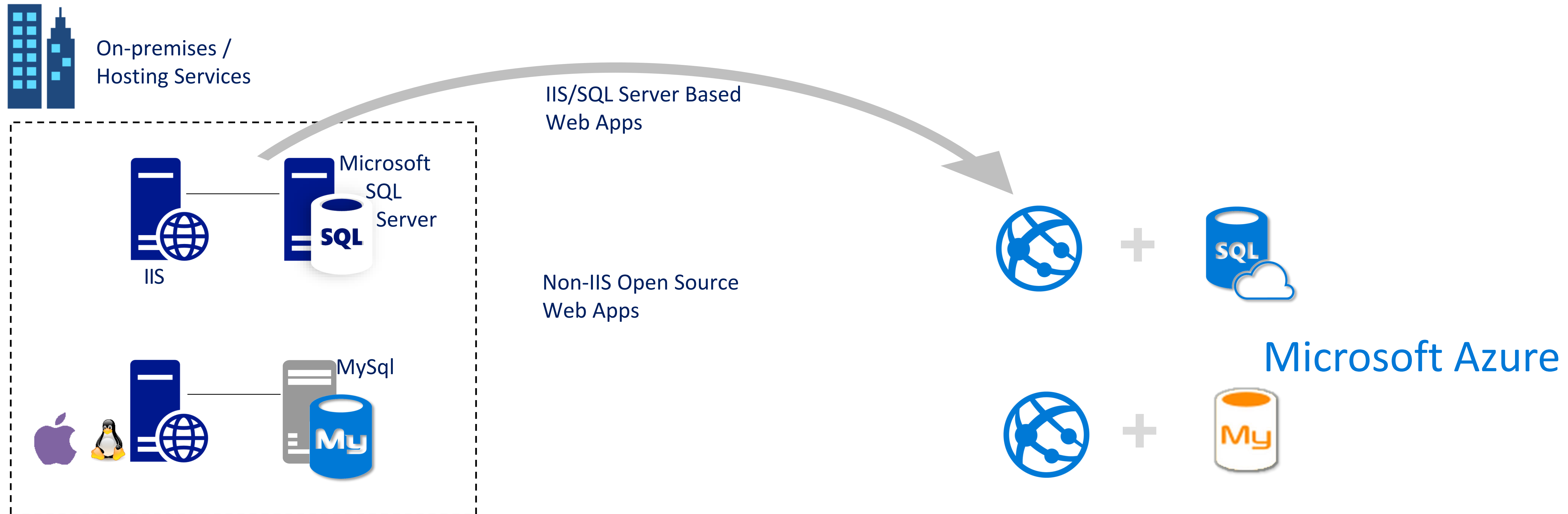


# Key Scenarios to Get Started





# Key Scenarios to Get Started







# Conclusion & References

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# Conclusion

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- **Microsoft** – a *mobile first, cloud first* vision to be more open than ever accross many platforms and technologies: open-source, Linux, Docker, Java, Php, NodeJS, .NET, etc.
- **Azure** – a lot of services to go further, change faster, and save time & money.
- **Azure Web Apps** - a good opportunity to start simple, code smart and go live faster!
- **ALM & DevOps** - a journey in continuous learning.



# There is no language, app, device, database, OS or tool that doesn't work with Azure!

DevOps          

Management          

Applications         

App frameworks & tools       

Databases & middleware       

Infrastructure         

*30% of VMs on Azure Run Linux Today! >50% of new VMs on Azure are Linux!*

# Try Azure, it's free to start with!

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- Free Azure
  - 24h with tryappservice
  - 200\$ free for Signup
  - 150\$ free for MSDN Subscriber
- Visual Studio Team Services
  - 5 users
  - Git
  - Backlog + Kanban
- Visual Studio Community et Code
  - Free and very powerfull
- DreamSpark and BizSpark
  - For students and startups: free tools!
- Microsoft Virtual Academy, Channel9 et Azure Friday
  - Free videos and trainings by Microsoft



# References

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## ➤ [Azure e-books](#)

- Microsoft Azure Essentials: Azure Web Apps for Developers

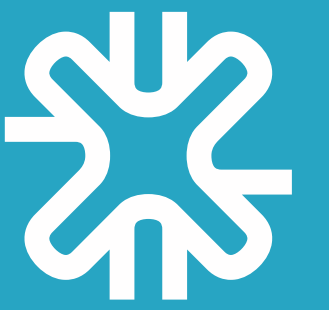
## ➤ [Azure Posters](#)

- Building real-world cloud apps

## ➤ [Azure Pricing Calculator](#)

## ➤ [Trust center](#)

## ➤ [Azure vs. Amazon](#)



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