

# Knowing Your Computing Options in Azure

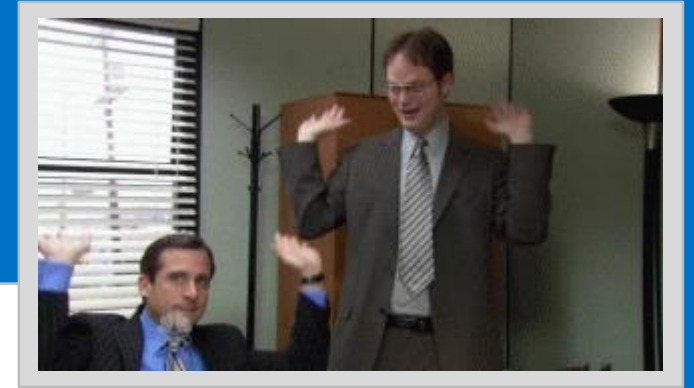
Bryan Soltis

Microsoft Azure MVP

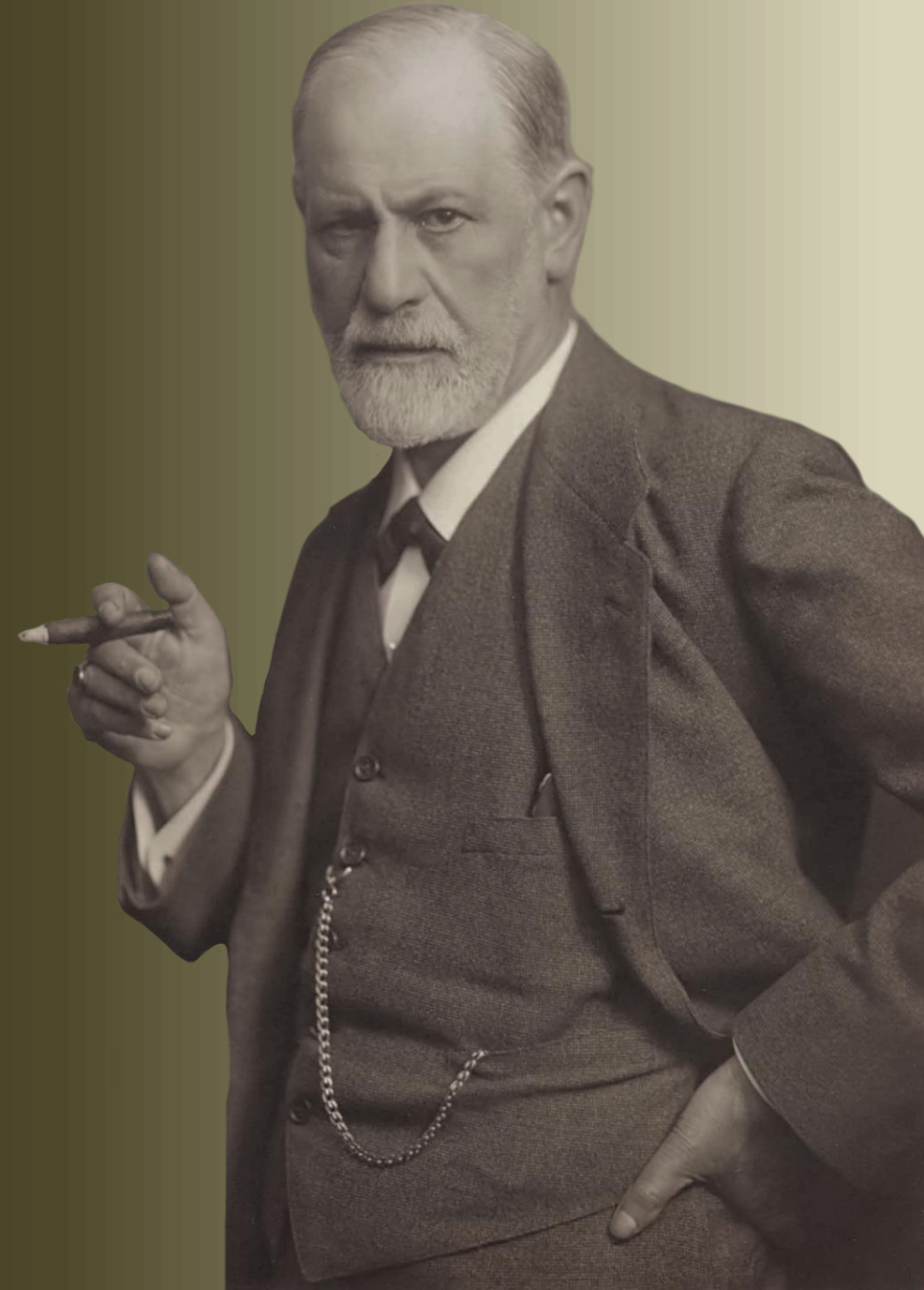
@bryan\_soltis



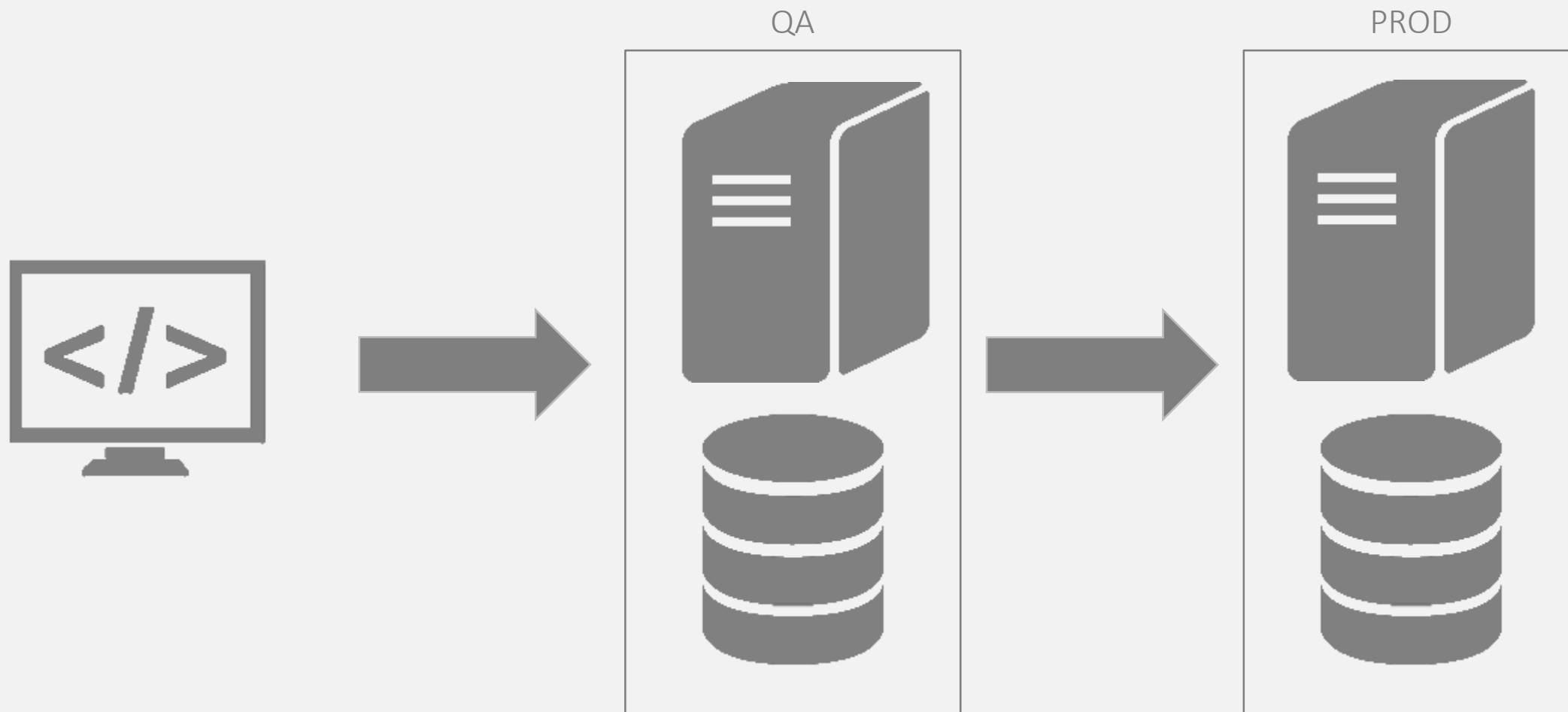
# Big Thanks to the Sponsors!



Let's talk about your  
hosting experience....

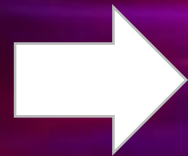


# Before Azure



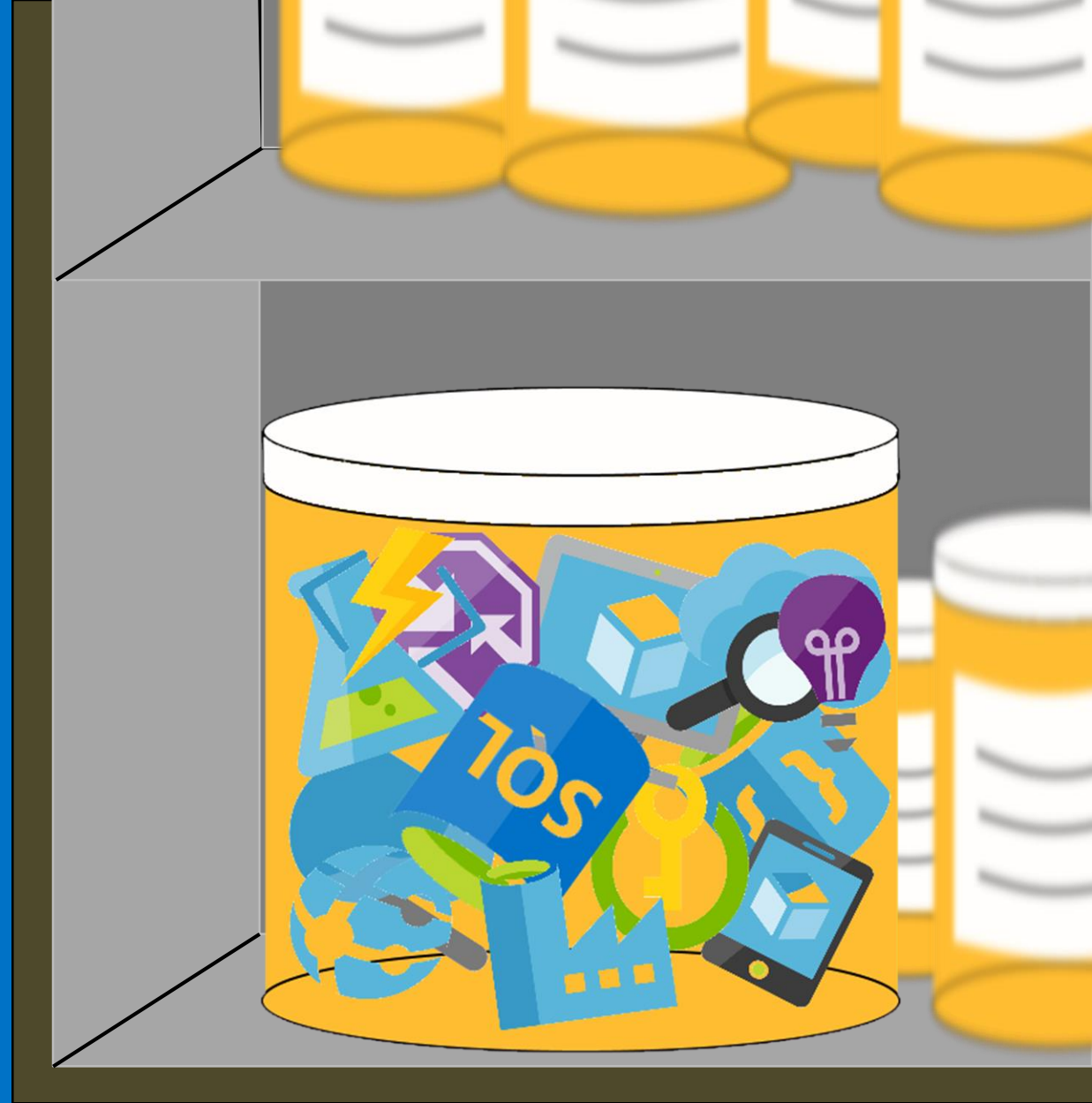
Azure

# After Azure!



# Diagnosing

- Educating yourself
- Understanding your needs
- Breaking down your application
- Architecting a solution
- Fitting your development process
- Planning your migration
- Leveraging strengths







# PaaS

## (Platform as a Service)

- Cloud Services
- Initial hosting option
- Fully-managed environment
- RDP Access
- Startup scripts
- Web Roles
  - Web applications
  - Services
- Worker Roles
  - Background services
  - Batch processing



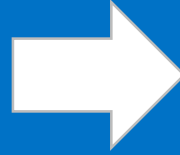
# How to deploy to Cloud Services



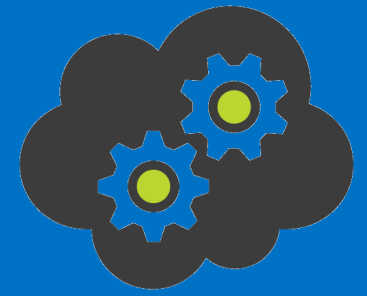
Develop



Package



Upload



Deploy







# IaaS (Infrastructure as a Service)

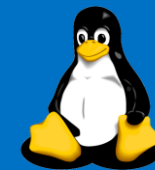
- Full control
- All user-administrated



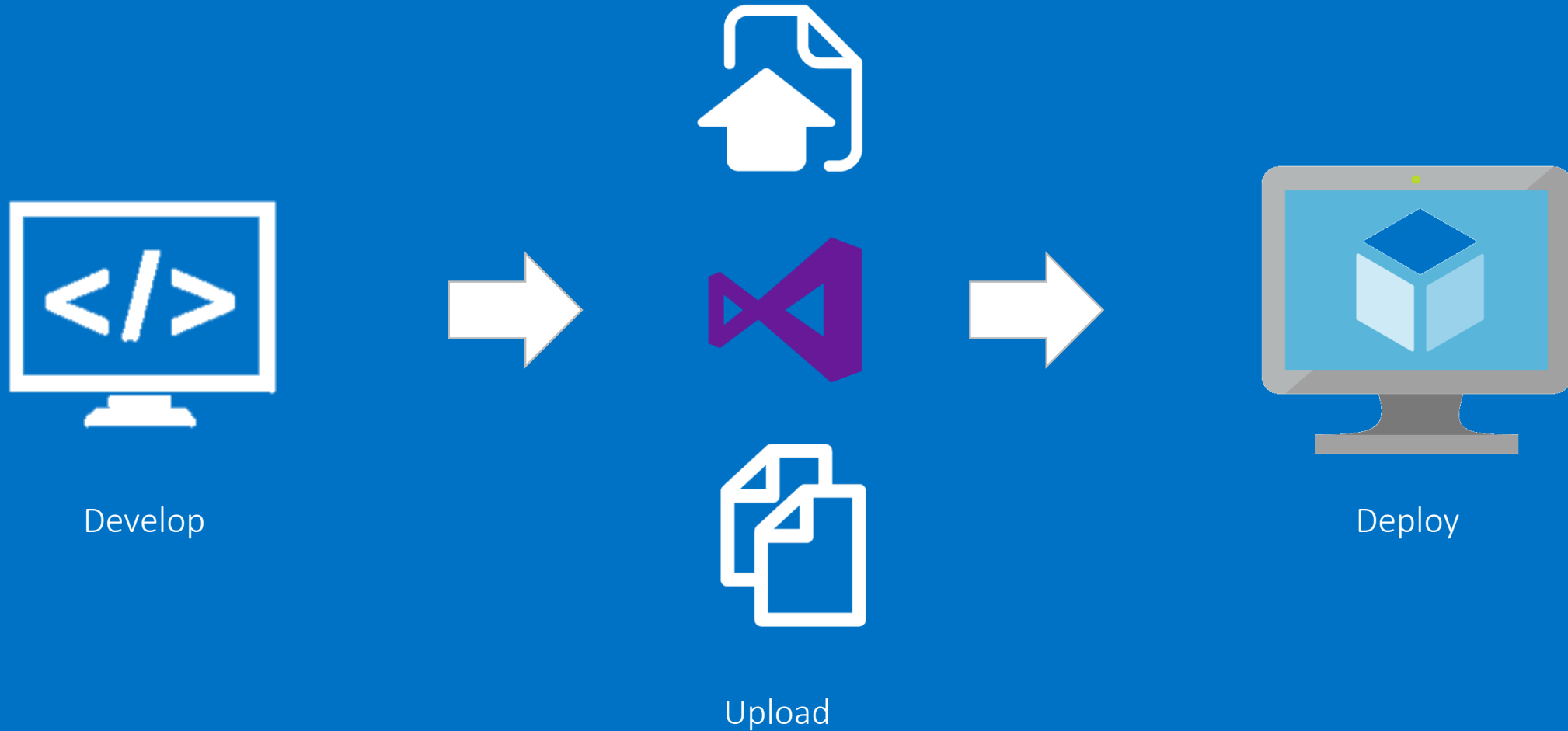
Customizable VHDs



Scalable / Clusters



# How to deploy to VMs





# App Services

- Managed environment
- Config capabilities



Web Apps



Functions



Mobile Apps



Logic Apps



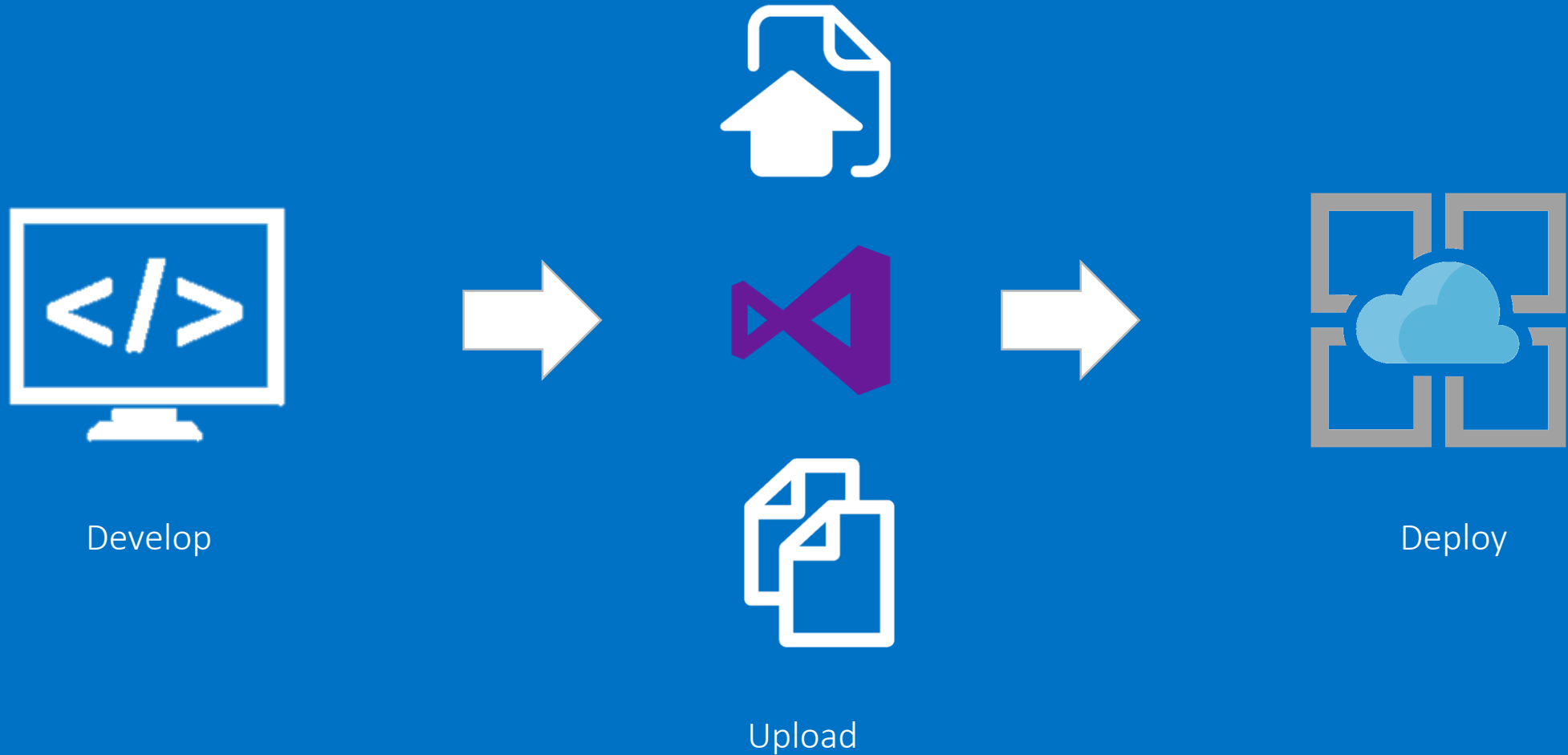
APIs



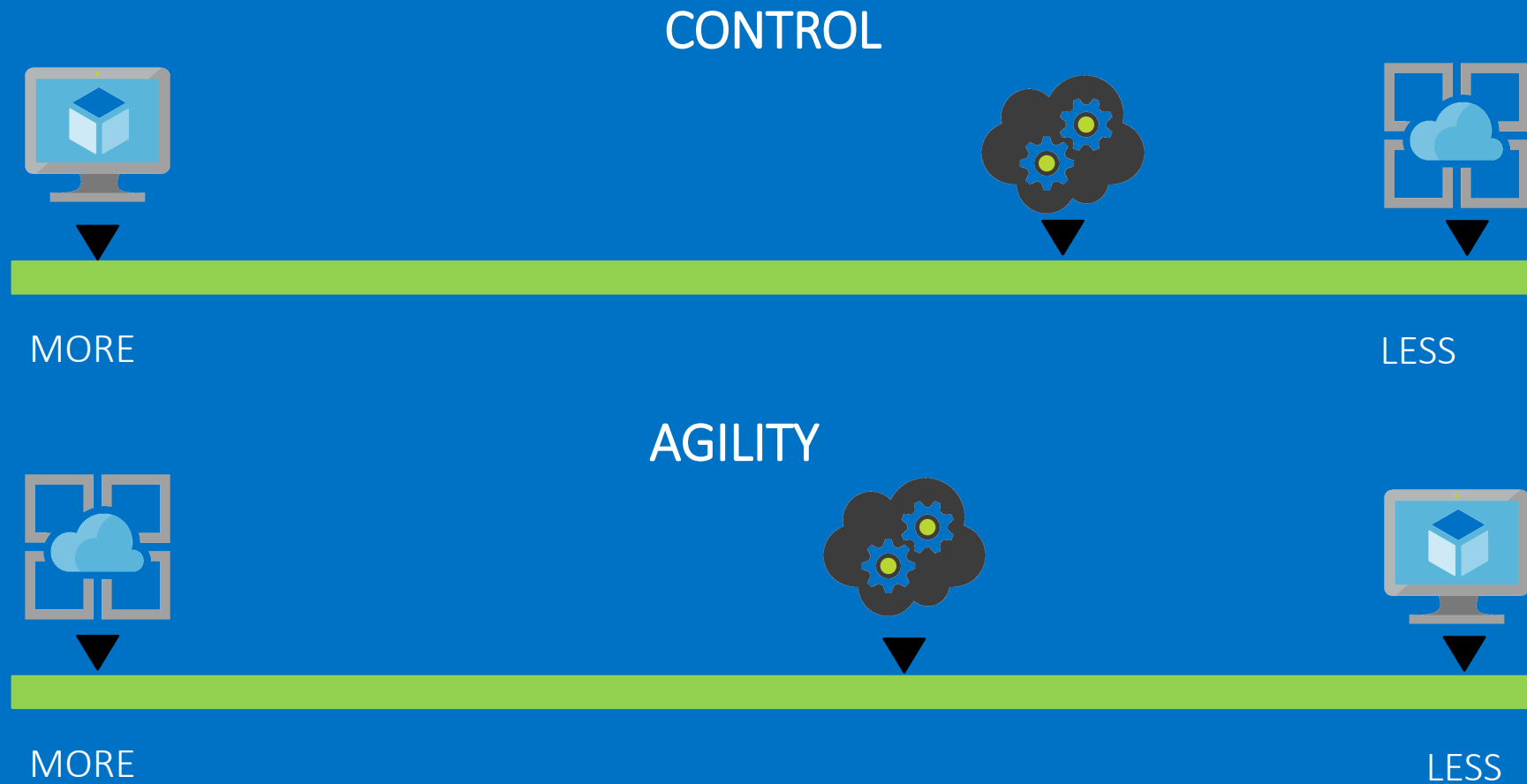
Web Jobs



# How to deploy to App Services



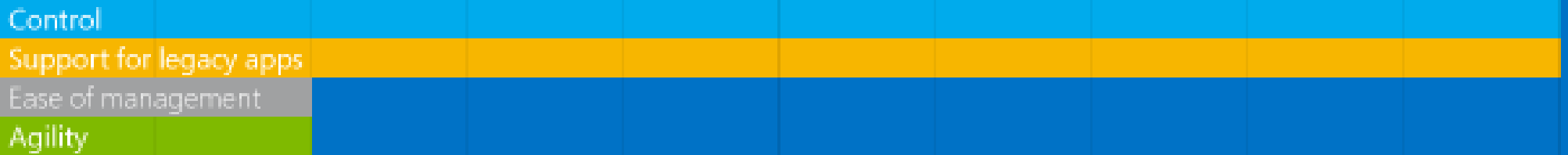
# How do they compare?



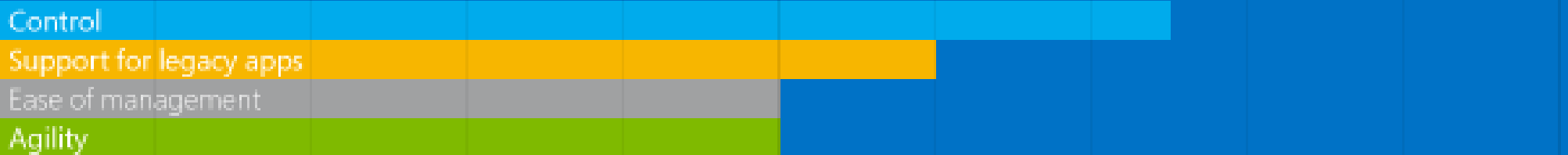
# How do they compare?



VIRTUAL MACHINES



CLOUD SERVICES



WEB APPS



low

medium

high

# When to use?



## Azure App Services

- Quick deployments
- .NET/Node/JS
- Integration with source control
- Stand alone applications
- New development
- Frequent updates / deployments



## Cloud Services (PaaS)

- Legacy applications
- Require complex integrations / connectivity
- Less frequent updates
- Require Windows services
- Require 3<sup>rd</sup> party services



## Virtual Machines (IaaS)

- Light and shift
- Legacy applications
- Existing VMs
- Require direct server access
- Defined management process





# Digging Deeper





# Data

- Scalable, flexible options
- Relation/Non-relational/Flat



SQL Database



Data Factory



MySQL



VHDs



DocumentDB



Azure Storage





# Files

- Flat files
- CDN delivery
- Replication



Azure Storage



CDN



StorSimple





# Security

- Azure Trust Center



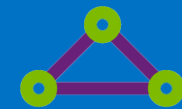
Key Vault



Network Security Group



Application Gateway



Express Route



VPN



Azure Backup



# Other Stuff



Azure Traffic Manager



Machine Learning



Azure Search



Azure Container Service



Azure Automation



Cognitive Services



Application Insights



Notification Hubs



# Learn more

- Microsoft Azure

<https://azure.microsoft.com/en-us/>

- Azure Documentation

<https://docs.microsoft.com/en-us/azure/>

- Azure Hosting Options Comparison

<https://docs.microsoft.com/en-us/azure/app-service/choose-web-site-cloud-service-vm>

- Deploying Kentico to Microsoft Azure  
– Know your web hosting options

<https://devnet.kentico.com/articles/deploying-kentico-to-microsoft-azure-know-your-web-hosting-options>



# This Guy

Name: Bryan Soltis  
E-mail: [bryan@soltisweb.com](mailto:bryan@soltisweb.com)  
Twitter: @bryan\_soltis  
Web: [soltisweb.com](http://soltisweb.com)  
GitHub: [github.com/bryansoltis](https://github.com/bryansoltis)  
MVP: [bit.ly/BryanSoltisMVP](https://bit.ly/BryanSoltisMVP)  
LinkedIn: [linkedin.com/in/bryansoltis](https://linkedin.com/in/bryansoltis)





# Final thoughts

- Learn the platform
- Understand your options
- Isolate functionality
- Carefully plan your migration
- Understand how to leverage the tool for your needs
- Shape your solution around your business



