



# Johnny Hooyberghs

Deploy your cloud-native .NET 8 apps to Azure Container Apps

# Here's Johnny!

 Johnny Hooyberghs

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- Passionate Developer
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- Operational Manager at Involved



# Cloud Native Technologies

Cloud native is microservices hosted in containers and/or serverless apps, that can run in multi-cloud environments and are managed by DevOps processes

**OOOOOOOH!**

**THAT'S A BULLSHIT BINGO**

# Cloud Native Technologies

Cloud native is **microservices** hosted in **containers** and/or **serverless** apps, that can run in **multi-cloud** environments and are managed by **DevOps** processes

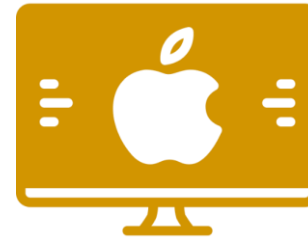
# .NET is platform independent



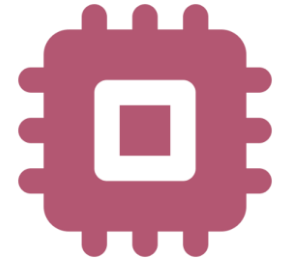
Windows



Linux



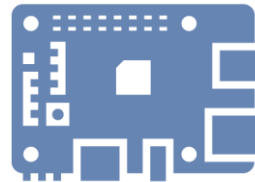
Mac



x86, x64, arm64



Cloud



IoT



Docker

# .NET SDK is NOT bound by tools

Welcome to .NET 8 SDK CLI...

- > **dotnet** new
- > **dotnet** restore
- > **dotnet** build
- > **dotnet** publish
- > **dotnet** test
- > **dotnet** run

# Microservices

A collection of loosely coupled services, where services are fine-grained, and protocols are lightweight





**SAY MICROSERVICE**



**ONE MORE TIME**



**YOU CALLED MY SYSTEM A  
MONOLITH**

# Containers

A standardized unit for developing, shipping and deploying a software package to run quickly and reliably, independently of computing environment







BONAVENTURE

KENDAL

KENDAL

Greek  
Shipping  
Miracle









# Building containers

```
FROM mcr.microsoft.com/dotnet/aspnet:8.0
WORKDIR /app
COPY bin/Release/publish /app
EXPOSE 8080
ENV TZ=Europe/Brussels
ENV KEY_VAULT_CONNECTION_STRING=...
ENV MY_CUSTOM_SETTING=...
ENTRYPOINT ["dotnet", "MyCustomWebApp.dll"]
```

# Serverless

Thanks to cloud computing, scaling, capacity planning and maintenance can be hidden from the developer or operator, focus on your application, not the infrastructure







**SERVERLESS**

**IS MADE OF SERVERS**

# Multi-cloud

The use of multiple cloud computing and storage services in a single network architecture and the ability to be cloud-agnostic





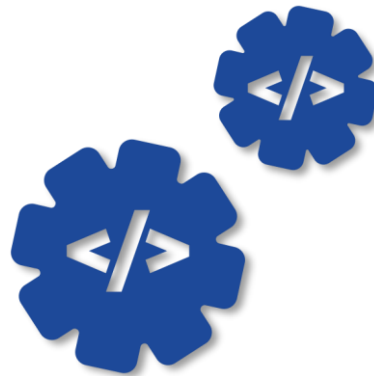
**CLOUD COMPUTING**



**CLOUD COMPUTING EVERYWHERE**

# DevOps

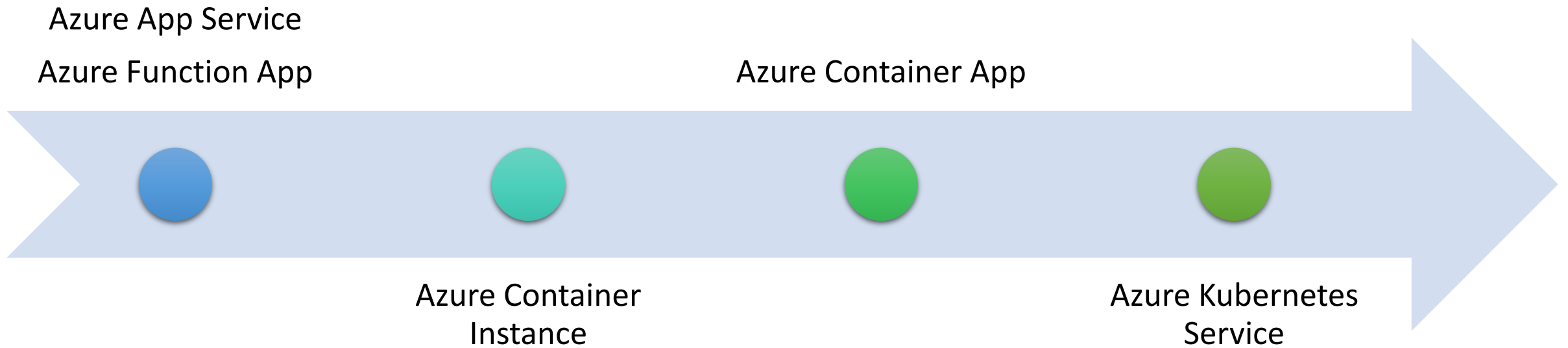
A set of practices that combines software development and IT-operations to shorten systems development lifecycle and provides continues delivery



**WORKED FINE IN  
DEV**




**OPS PROBLEM NOW**

# Azure Container Options



# Thank you!

Questions?

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