

NDC { Oslo }

Johnny Hooyberghs

Goodbye Azure Kubernetes Service! Hello Azure Container Apps!

Here's Johnny

- Passionate Developer
- Principal Software Consultant/Architect (.NET)
- Microsoft MVP, Developer Technologies
- Operational Manager at Involved



Microsoft®
Most Valuable
Professional



@djohnnieke



johnny.hooyberghs@involved.be



Johnny Hooyberghs


www.involved-it.be







Azure Containers



Web App



Function App



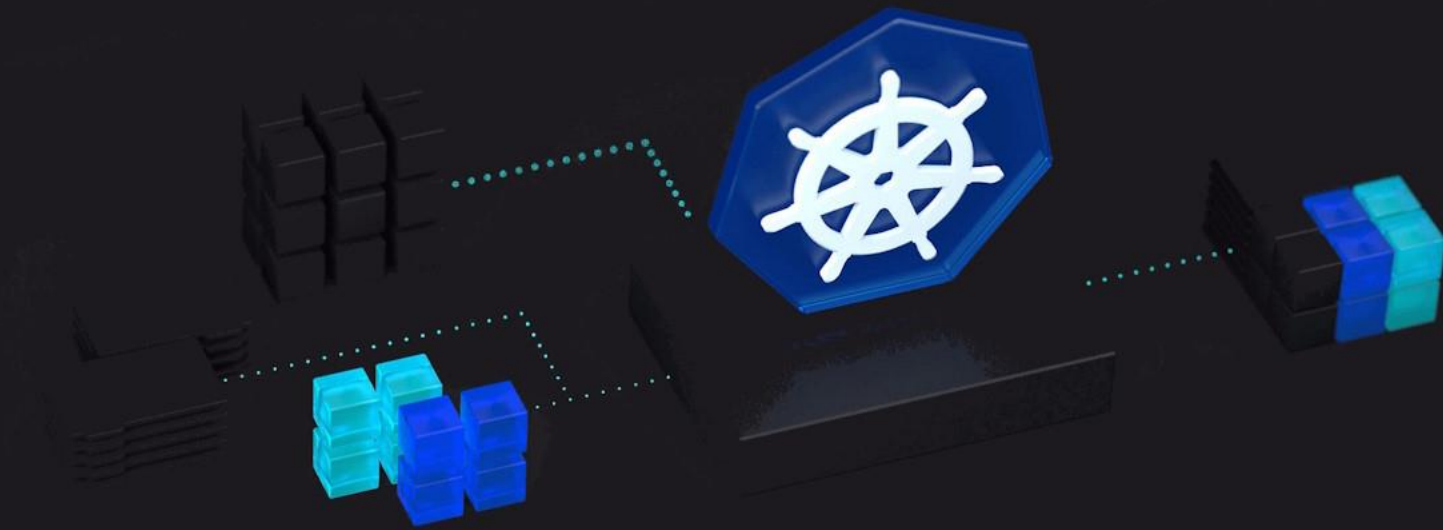
Container Instance



Container App



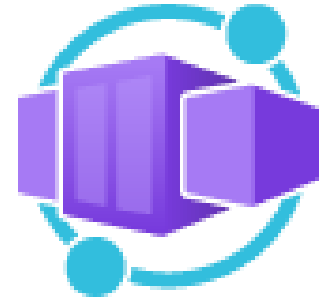
AKS



VS.



Azure Container Apps



Distributed applications or microservices

Serverless (if needed)

Cloud-native apps

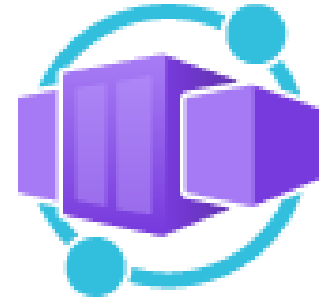
Built on Open Source Software components

Focusses on applications and not infrastructure

Scales dynamically (even to zero) based on events



What can you build on Container Apps?



Distributed applications

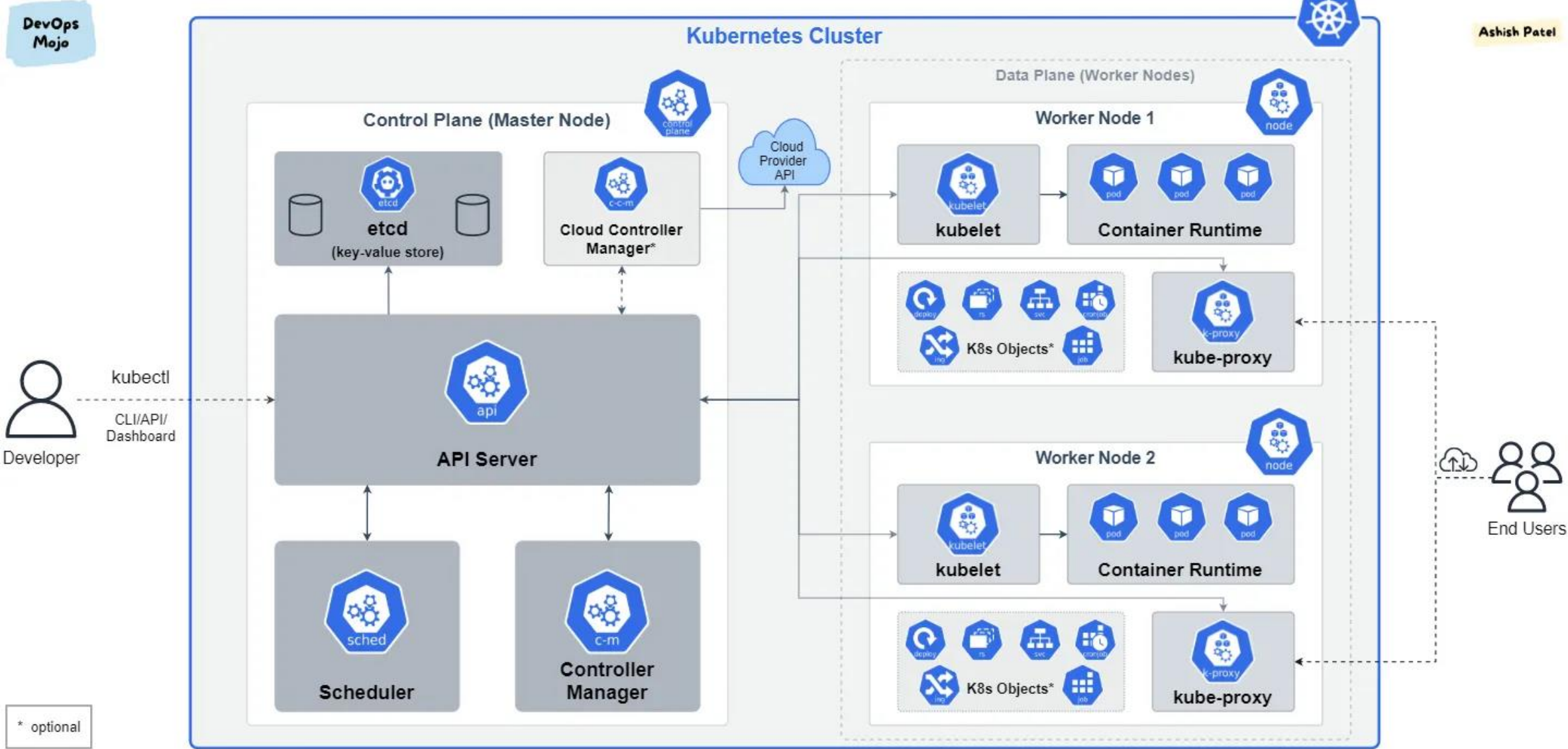
Microservices applications

Web applications

Event-driven processing applications

Background processing applications

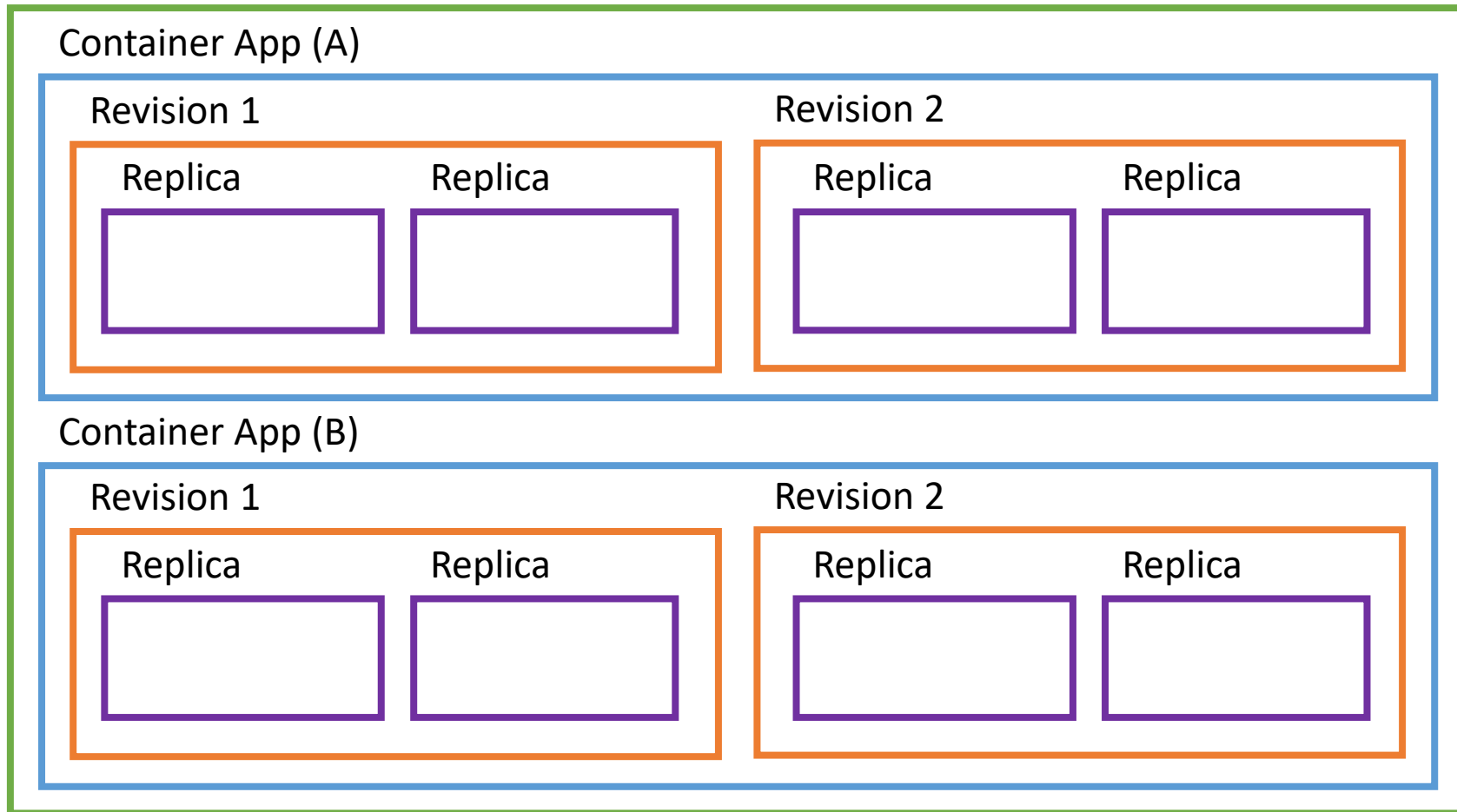
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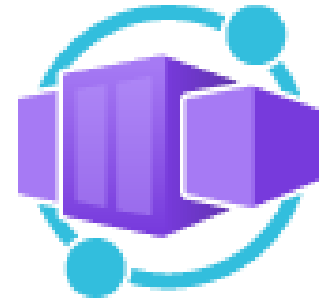
Container App Architecture



Container App Environment



Container App Demo



.NET Aspire



Distributed Application Orchestrator

App Composition

Service Discovery

Support for Components for commonly used services

...

Enhanced tooling support

Visual Studio

Azure CLI

.NET Aspire Demo



Dapr



Distributed Application Runtime

Microservices or distributed applications

Any language or framework

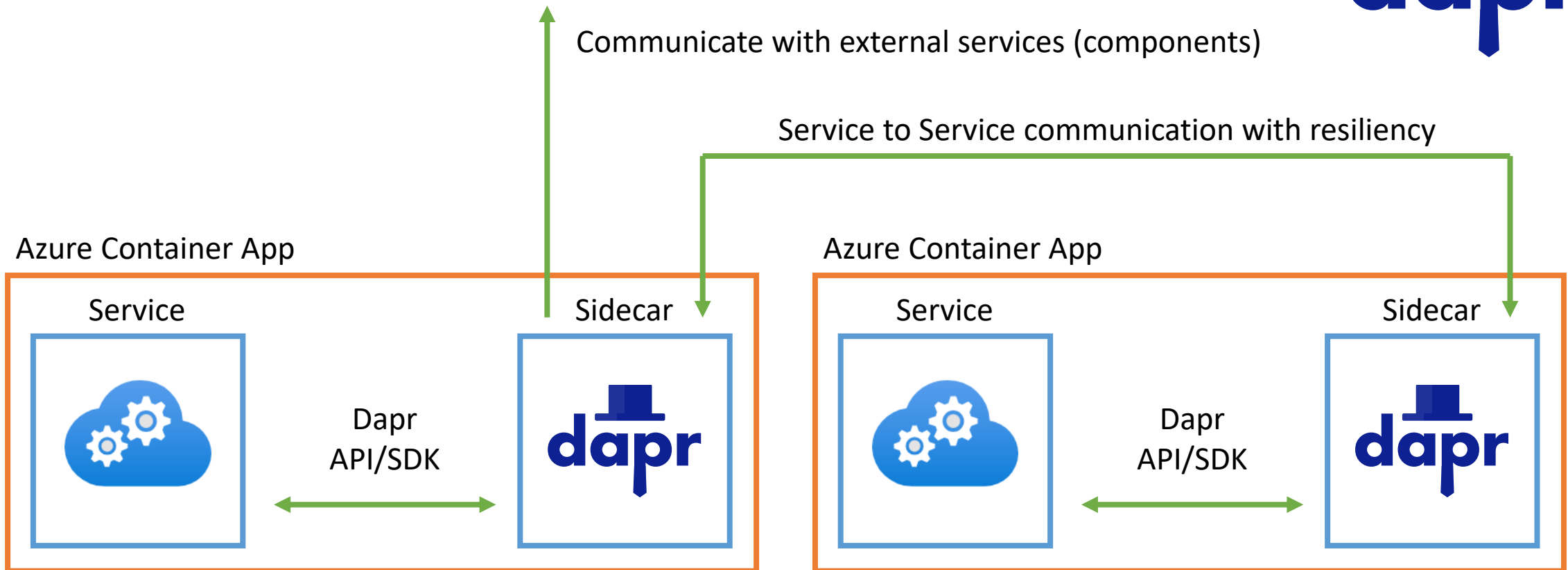
Abstract away cloud infrastructure and configuration

Focus on application code

Best practices for building distributed applications

Enables application portability

Dapr Architecture



Dapr Components



Input/Output Bindings

State Stores

Secret Stores

Configuration Stores

Pub Sub

Middlewares

...

Dapr Demo



johnny.hooyberghs@involved-it.be
@djohnnieke



<https://github.com/Djohnnie>HelloAzureContainerApps-NDCOslo-2024>