

STEP RIGHT UP FOR THE FABULOUS

TECHORAMA

FUN FAIR EDITION 2024

JOHNNY HOOYBERGHS

Goodbye Azure Kubernetes Service!
Hello Azure Container Apps!



Here's Johnny

- Passionate Developer
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Microsoft®
Most Valuable
Professional



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Azure Containers



Web App



Function App



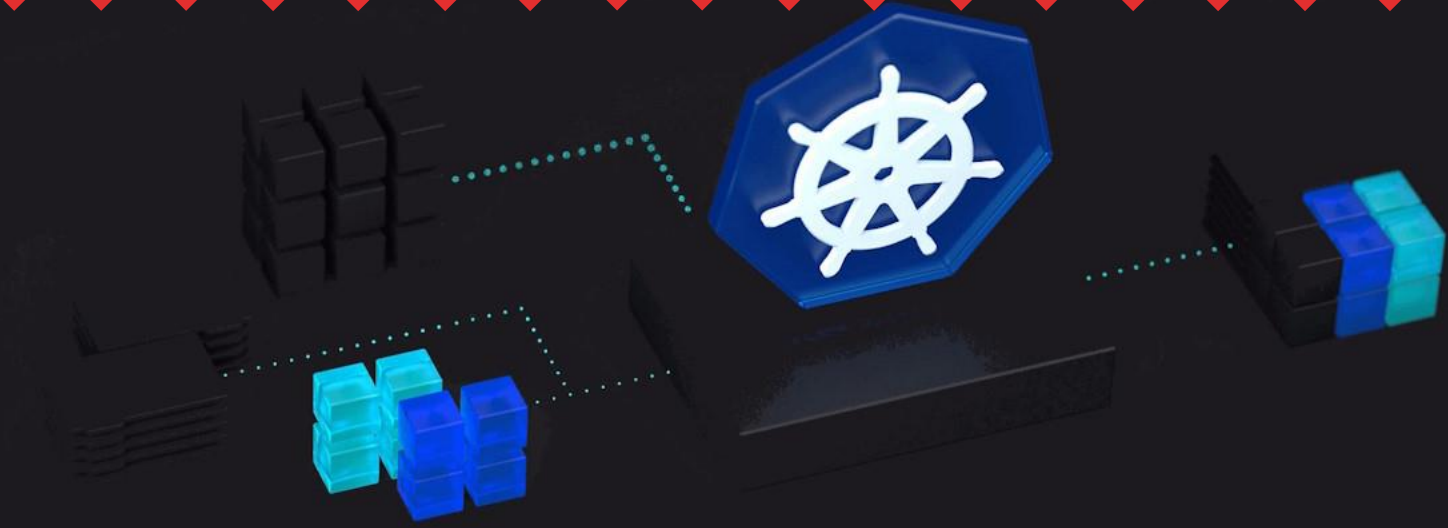
Container Instance



Container App



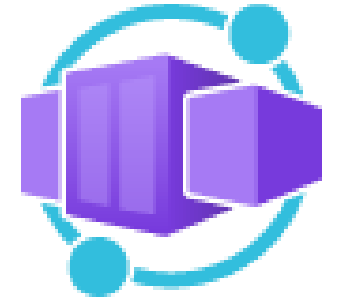
AKS



VS.



Azure Container Apps



Distributed applications or microservices

Serverless/Consumption (if needed) or Workload Profiles

Cloud-native apps

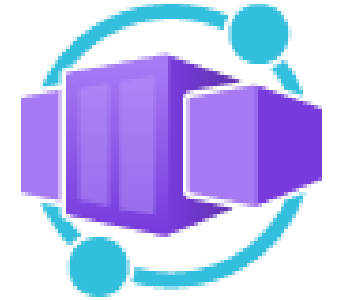
Built on Open Source Software components

Focusses on applications and not infrastructure

Scales dynamically (even to zero) based on events



What can you build on Container Apps?



Distributed applications

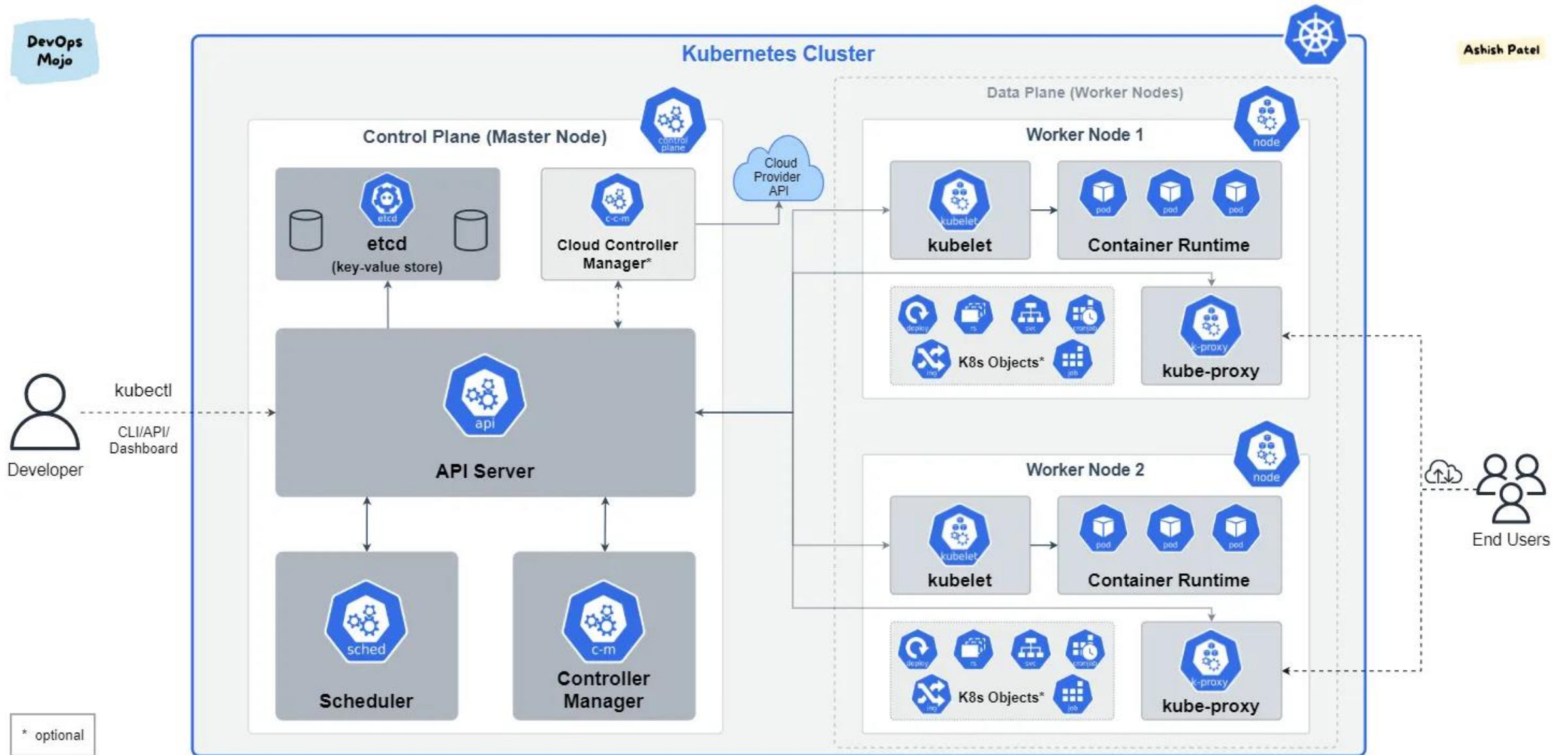
Microservices applications

Web applications

Event-driven processing applications

Background processing applications

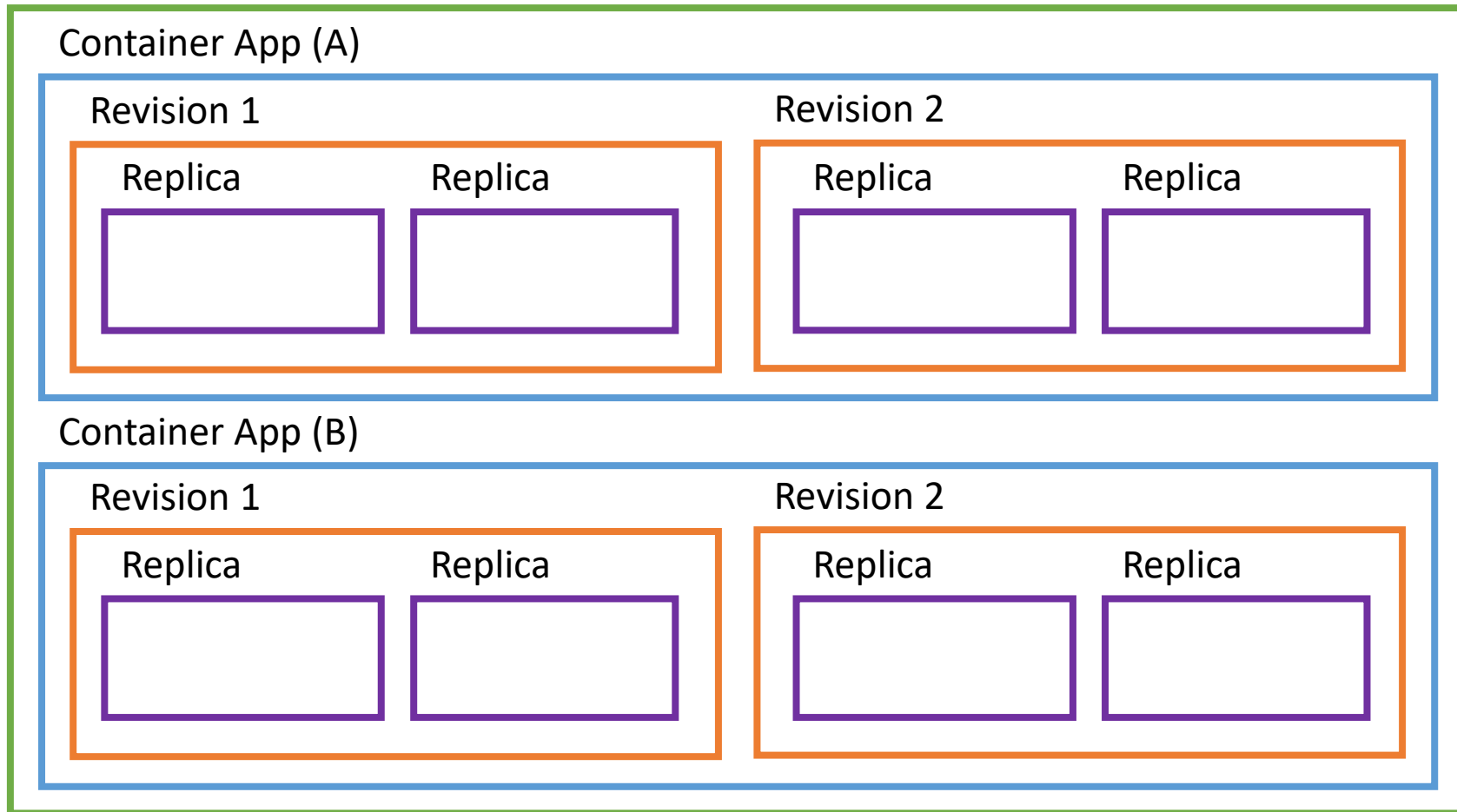
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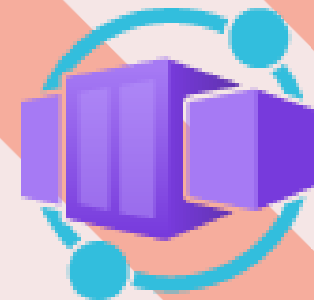
Container App Architecture



Container App Environment



Container App Demo



.NET Aspire



Distributed Application Orchestrator

App Composition

Service Discovery

Support for Components for commonly used services

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Enhanced tooling support

Visual Studio

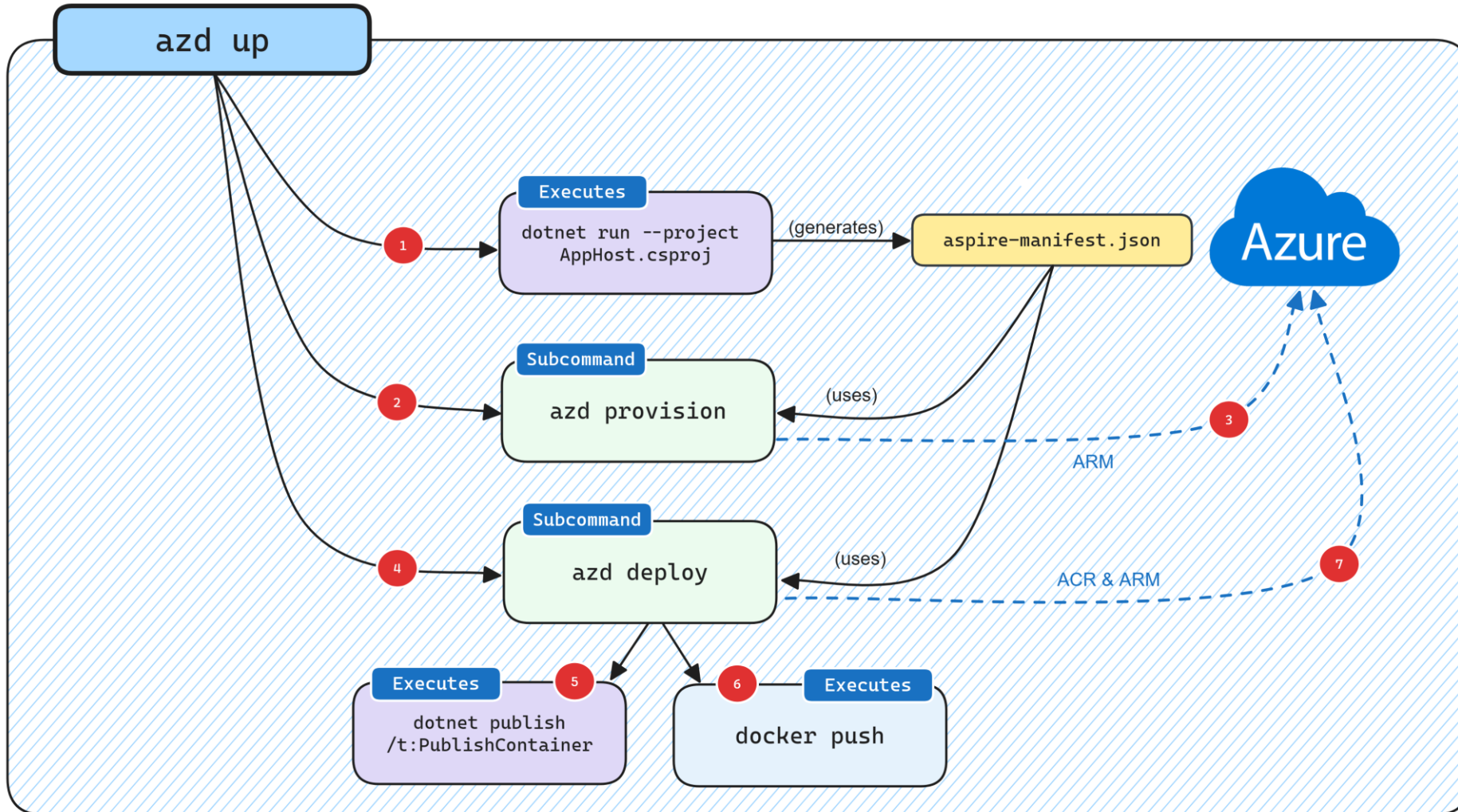
Azure CLI

Azure Developer CLI

.NET Aspire Demo



.NET Aspire



Dapr



Distributed Application Runtime

Microservices or distributed applications

Any language or framework

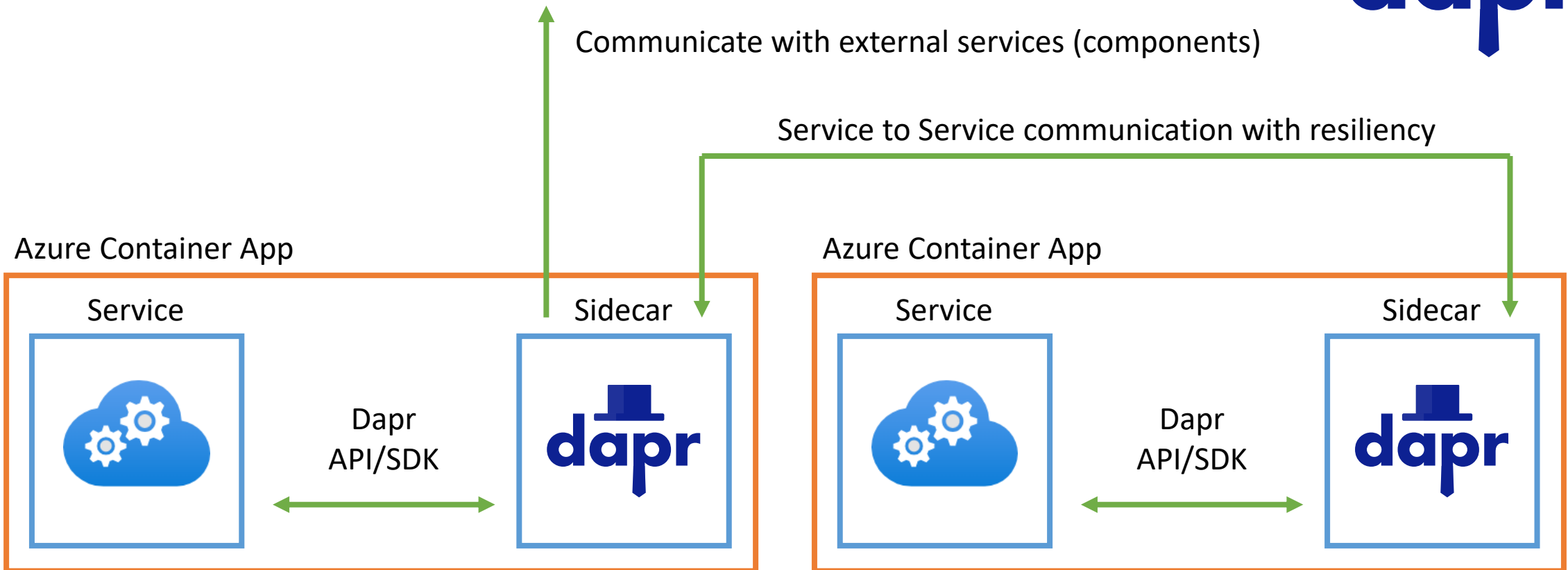
Abstract away cloud infrastructure and configuration

Focus on application code

Best practices for building distributed applications

Enables application portability

Dapr Architecture



Dapr Components



Input/Output Bindings

State Stores

Secret Stores

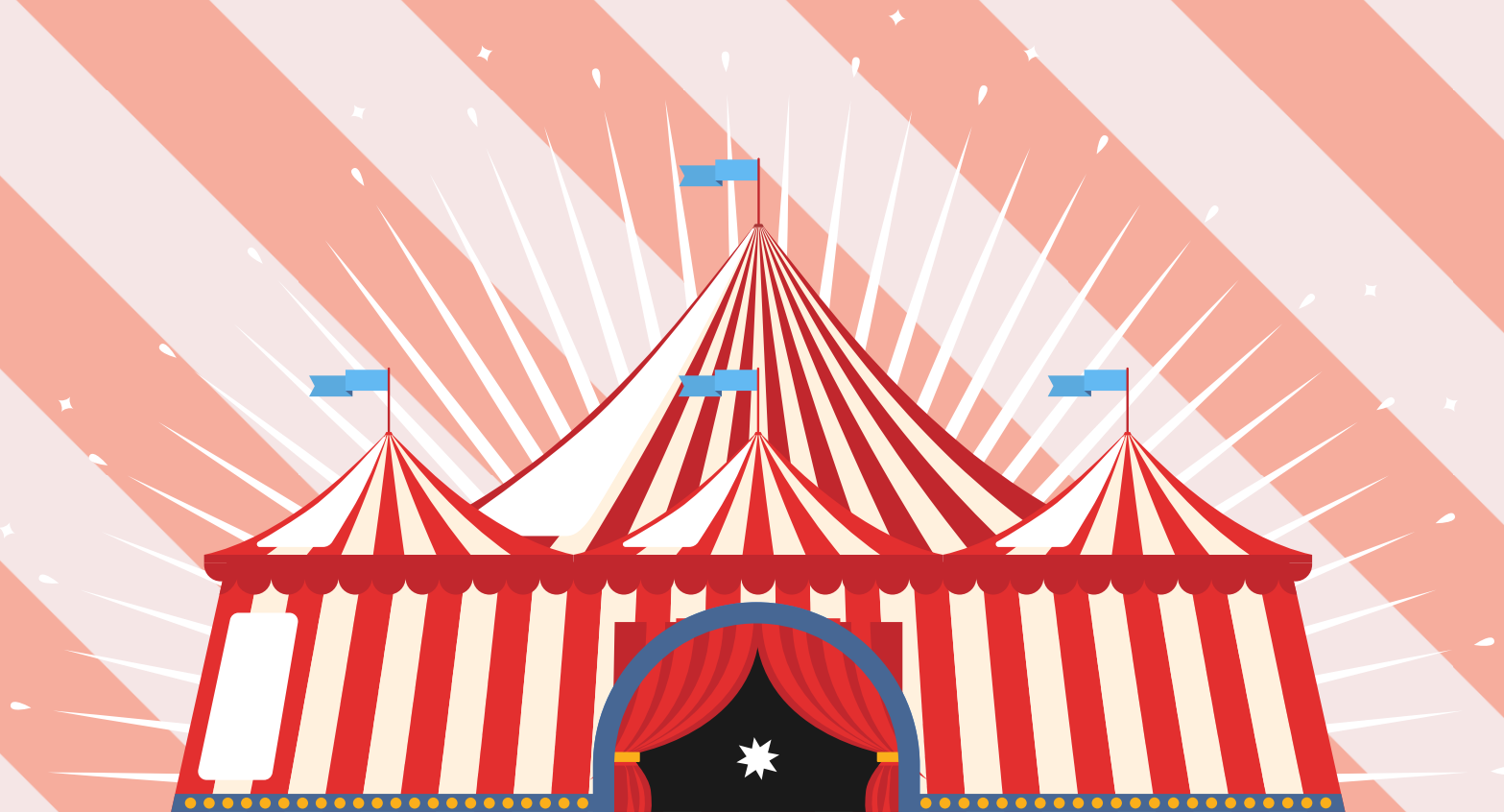
Configuration Stores

Pub Sub

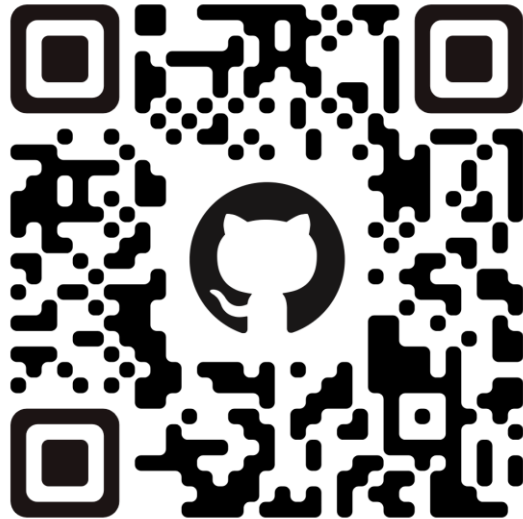
Middlewares

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Dapr Demo



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