

**•iinvolved**

# **From Zero to .NET Orleans Hero**

VISUG October 2025

# Who am I?

- Passionate about anything IT!
- Consultant @ Involved
- Playing the guitar
- Cruising on my motorcycle



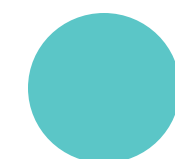
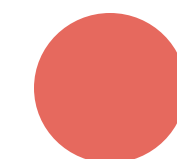
Koen Seeuws



koen-seeuws

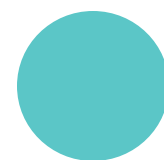
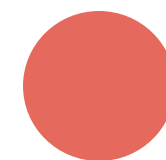


involved

The logo for 'involved' features three small colored dots (teal, red, and purple) above the letter 'i'. The word 'involved' is written in a bold, dark blue, sans-serif font.



# The Code Kitchen



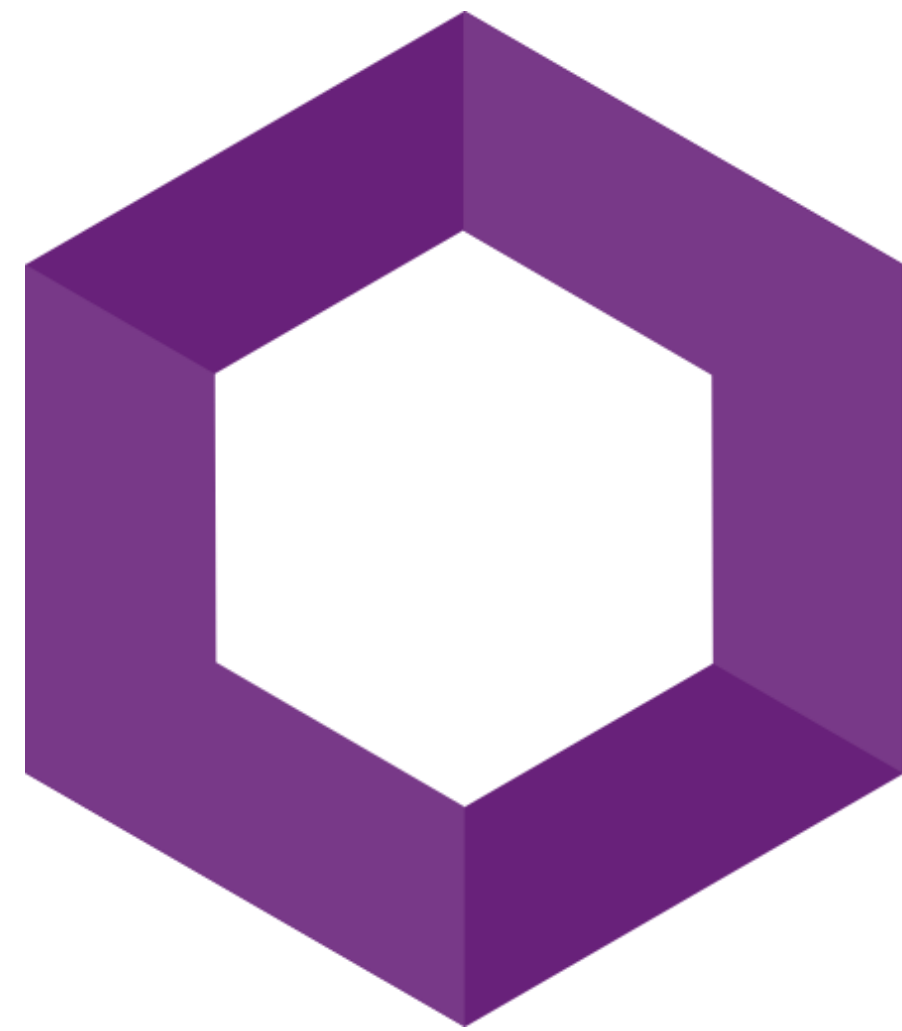


A photograph of a wooden desk with a stack of papers. The papers are of various colors, including white, light blue, and light green. The word "Orleans!" is written in white, bold, sans-serif font across the middle of the stack. The background is a blurred view of a room with a window and some furniture.

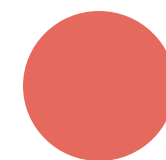
**Orleans!**



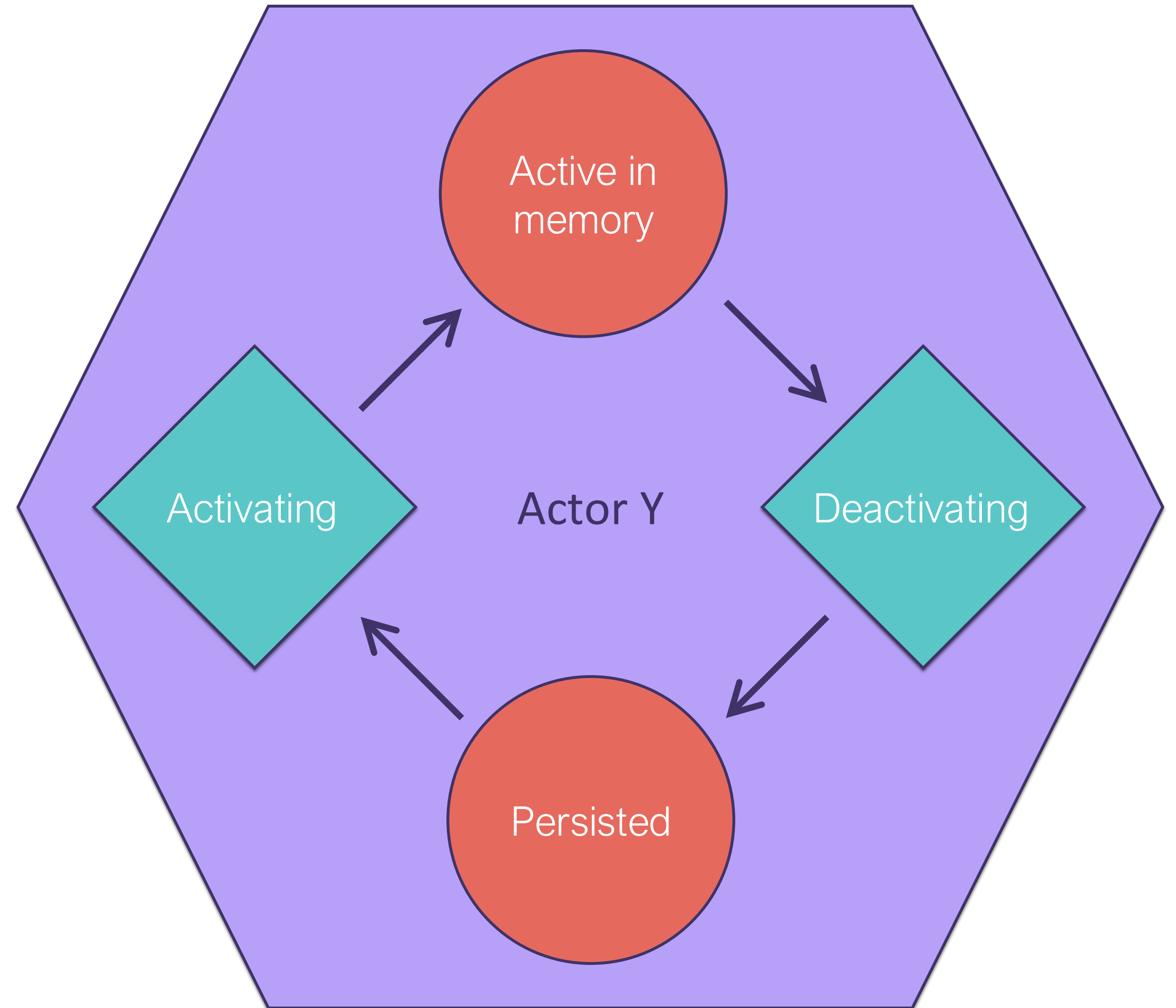
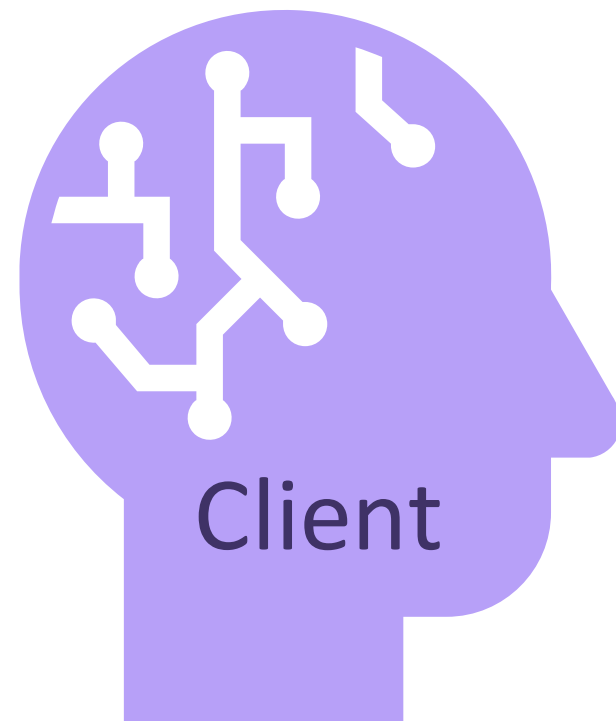
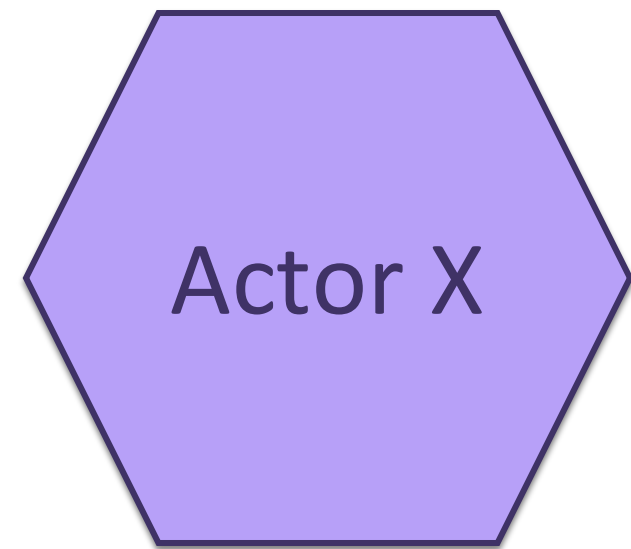
# What is Orleans?



# Orleans



# The Virtual Actor Model



# Grains

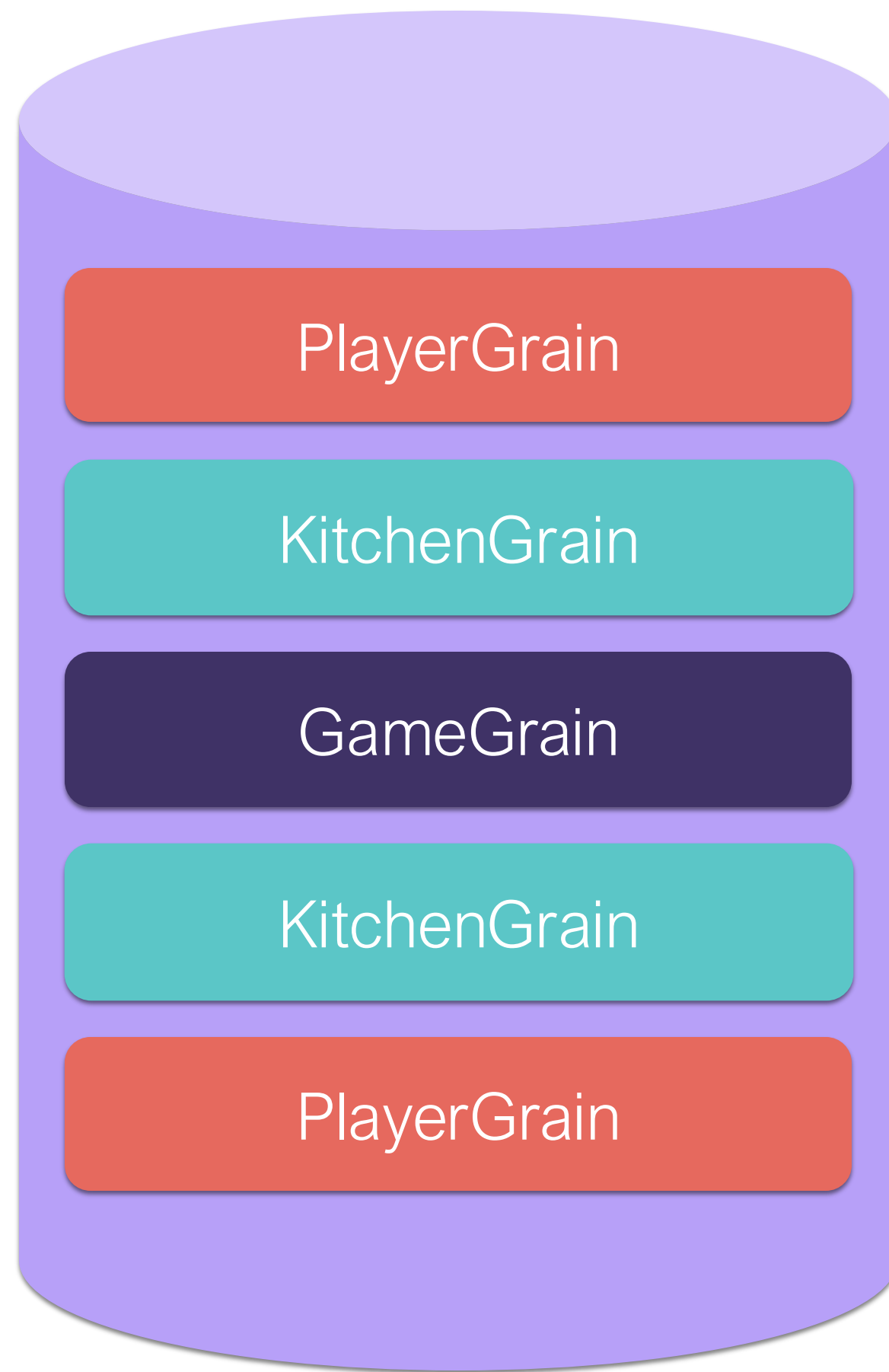
Pantry/3F2504E0-4F89-...      In-memory or persisted

(Pantry)Grain = Identity + Behaviour [+ State]

PantryGrain : Grain, IPantryGrain



# Silos



Silo 1



Silo 2



Silo 3





The image shows a stack of papers on a wooden desk. The papers are of various colors, including white, light blue, and light green. The desk is made of wood with a visible grain. A dark purple overlay covers the entire image, and the word "Features" is written in white text across the middle of the stack of papers.

# Features



# Persistent State



Microsoft  
Azure




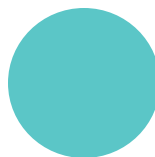
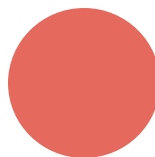
DynamoDB





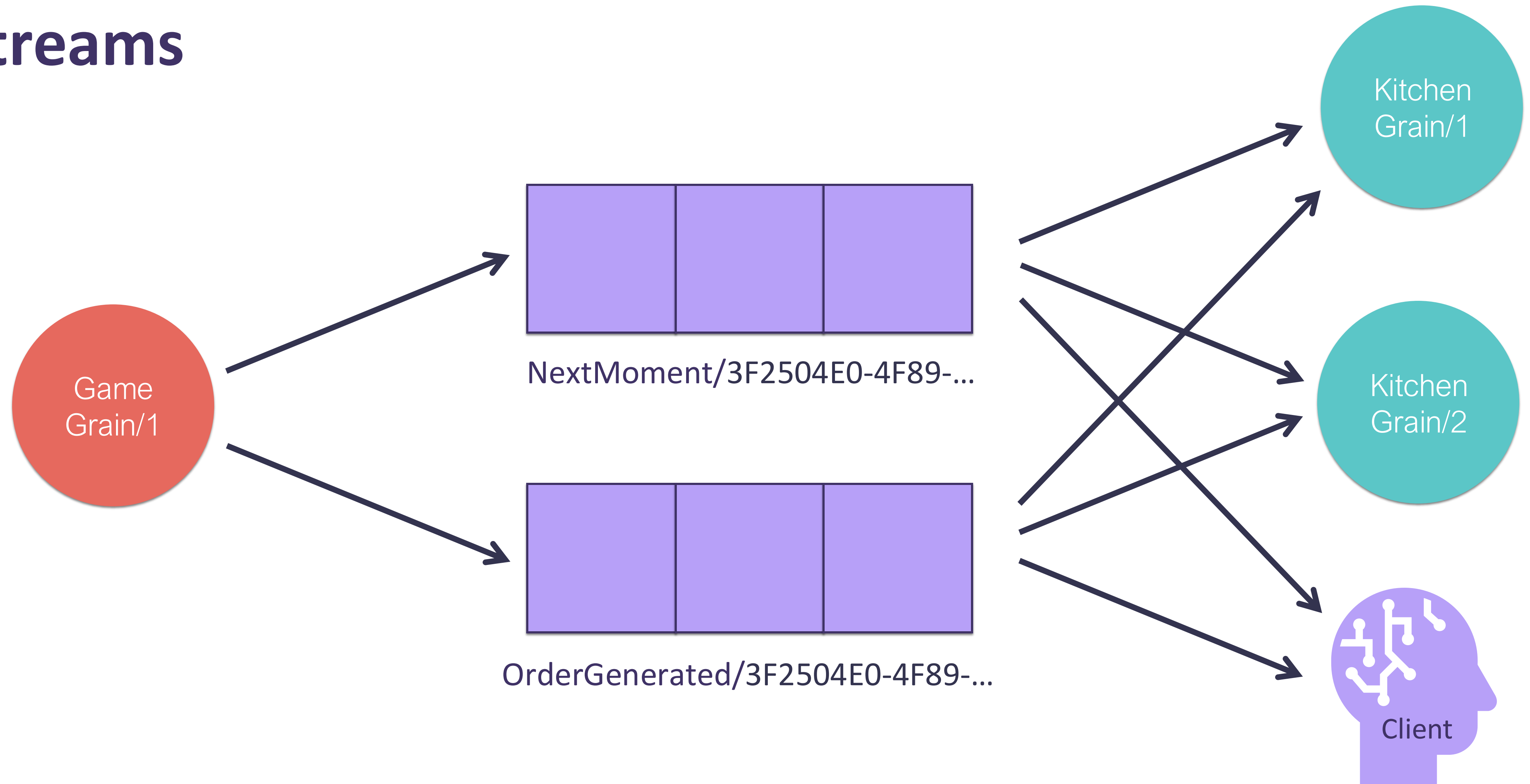
# Timers & Reminders

	Timers	Reminders
Use Case	Frequent, short tasks	Durable, scheduled tasks
Survives Grain Deactivation?		





# Streams



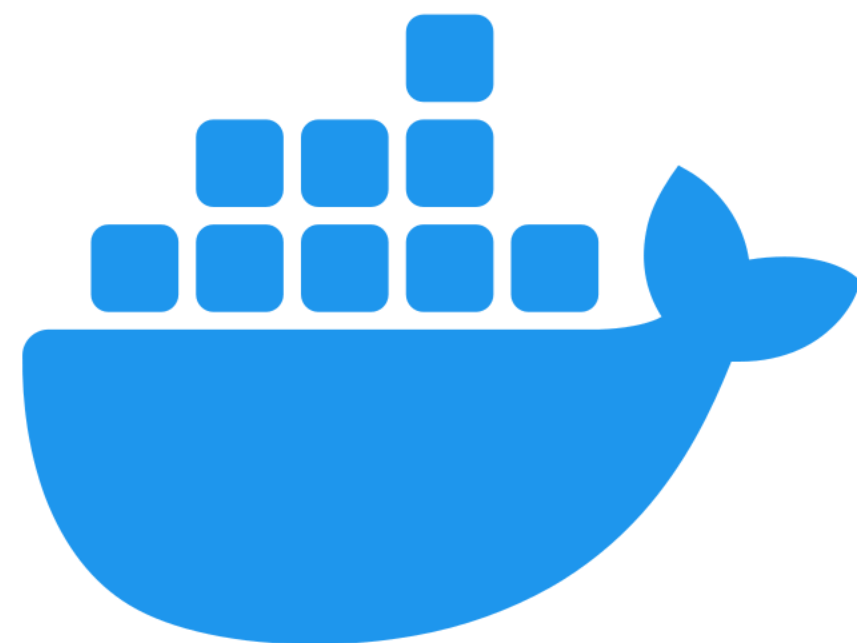
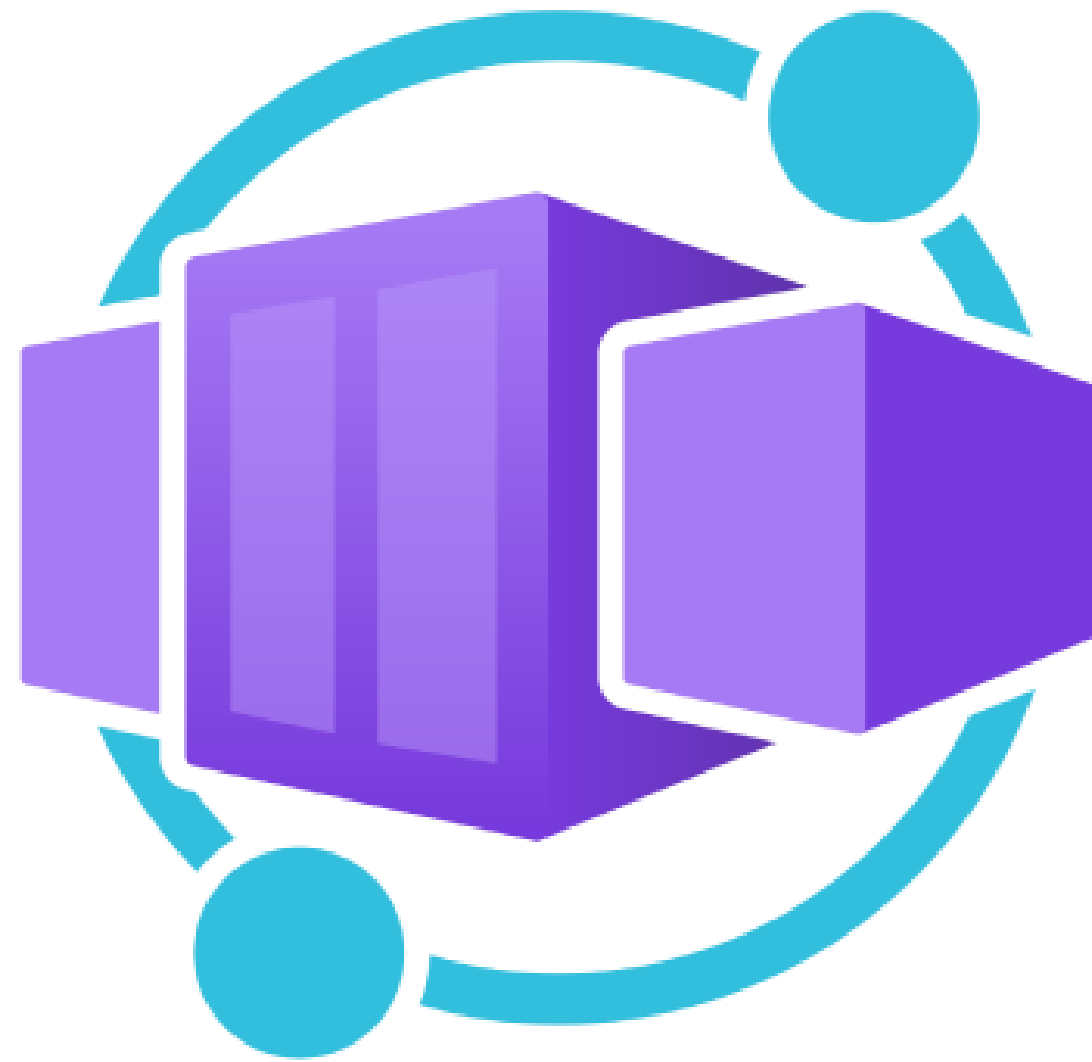


The image features a stack of papers on a wooden desk, with a dark purple overlay. The word "Deployment" is written in white, bold, sans-serif font across the middle of the stack. The background is a blurred image of a desk with a wooden surface and a dark purple overlay.

# Deployment

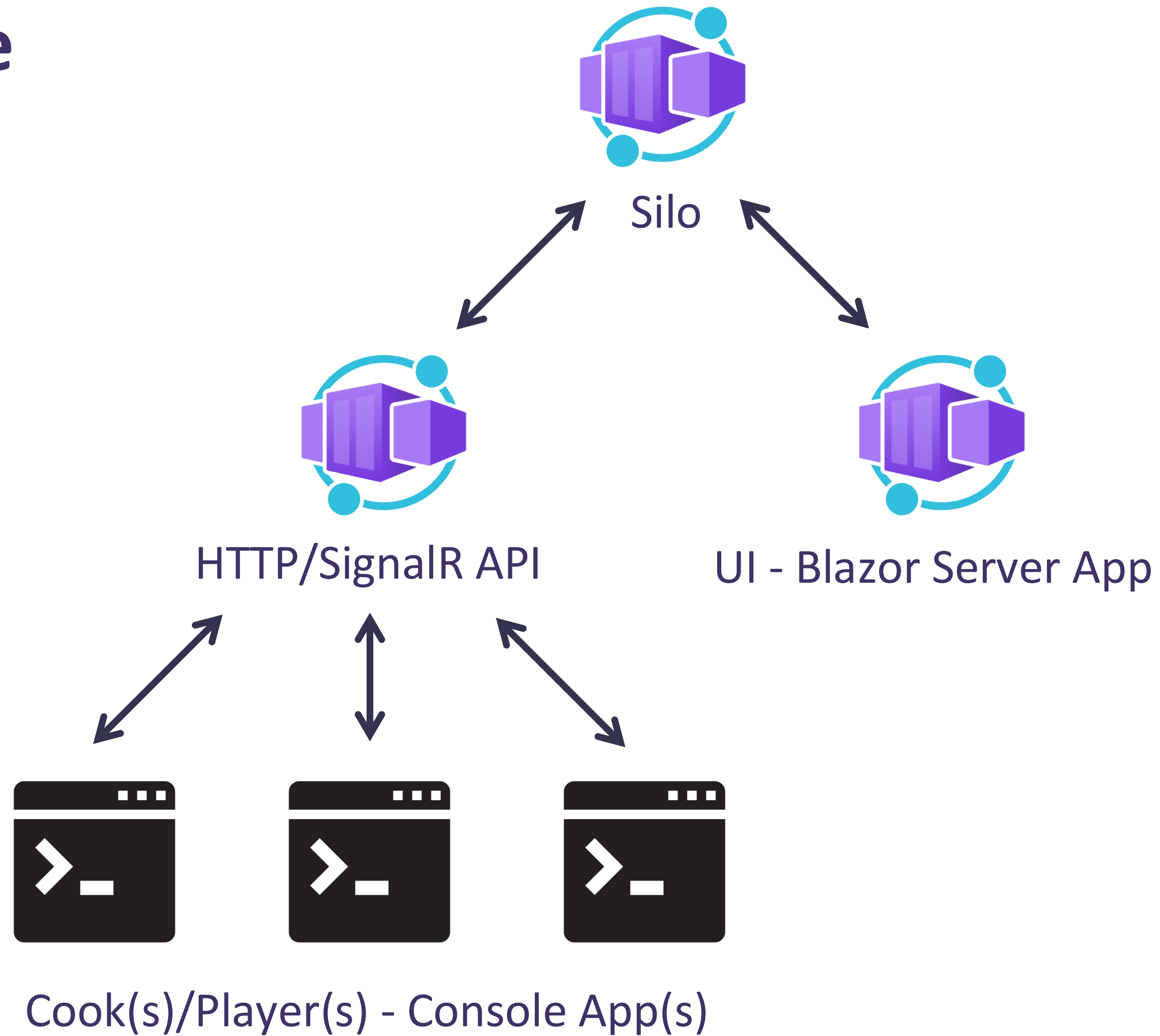


# Azure Container Apps

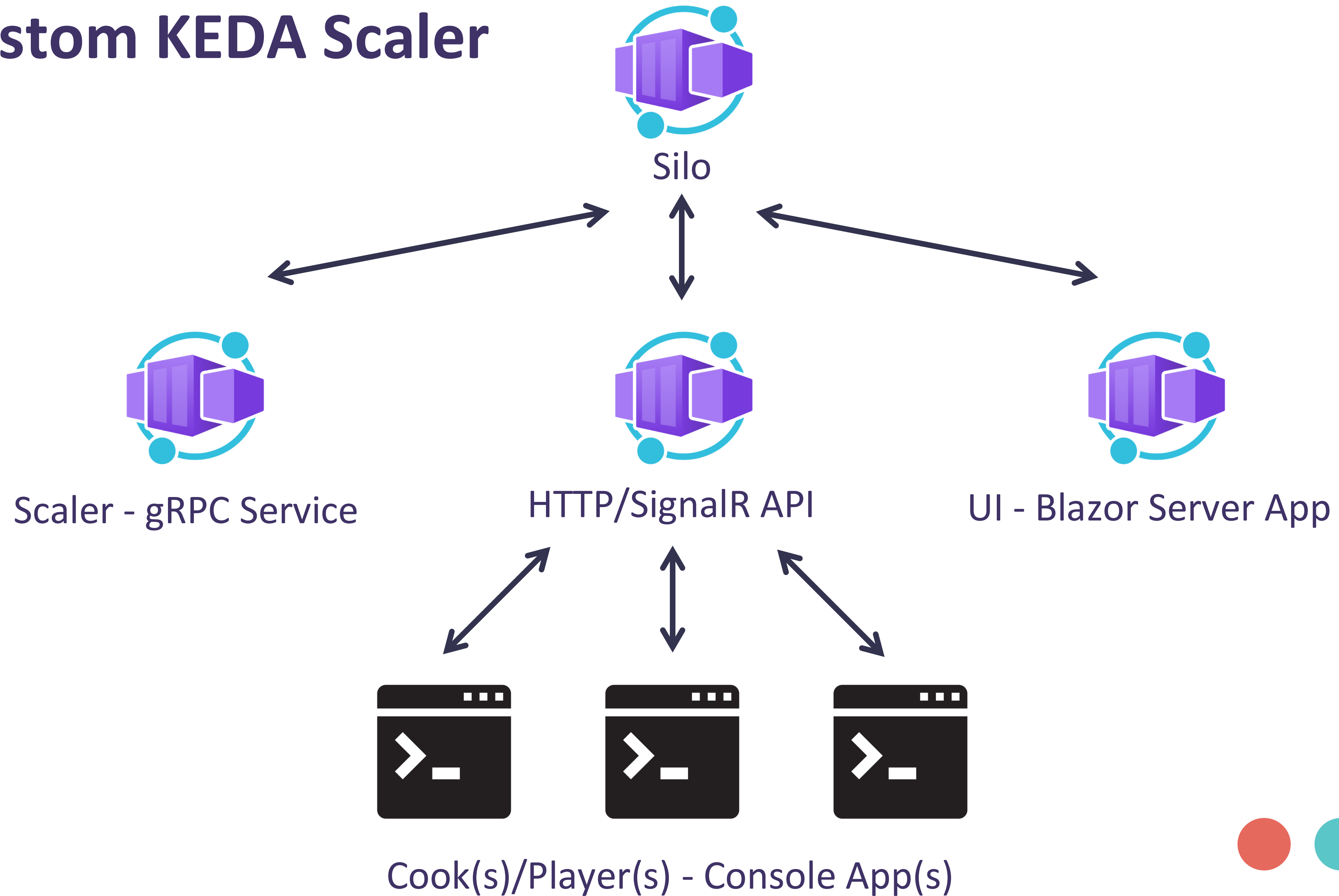




# Architecture

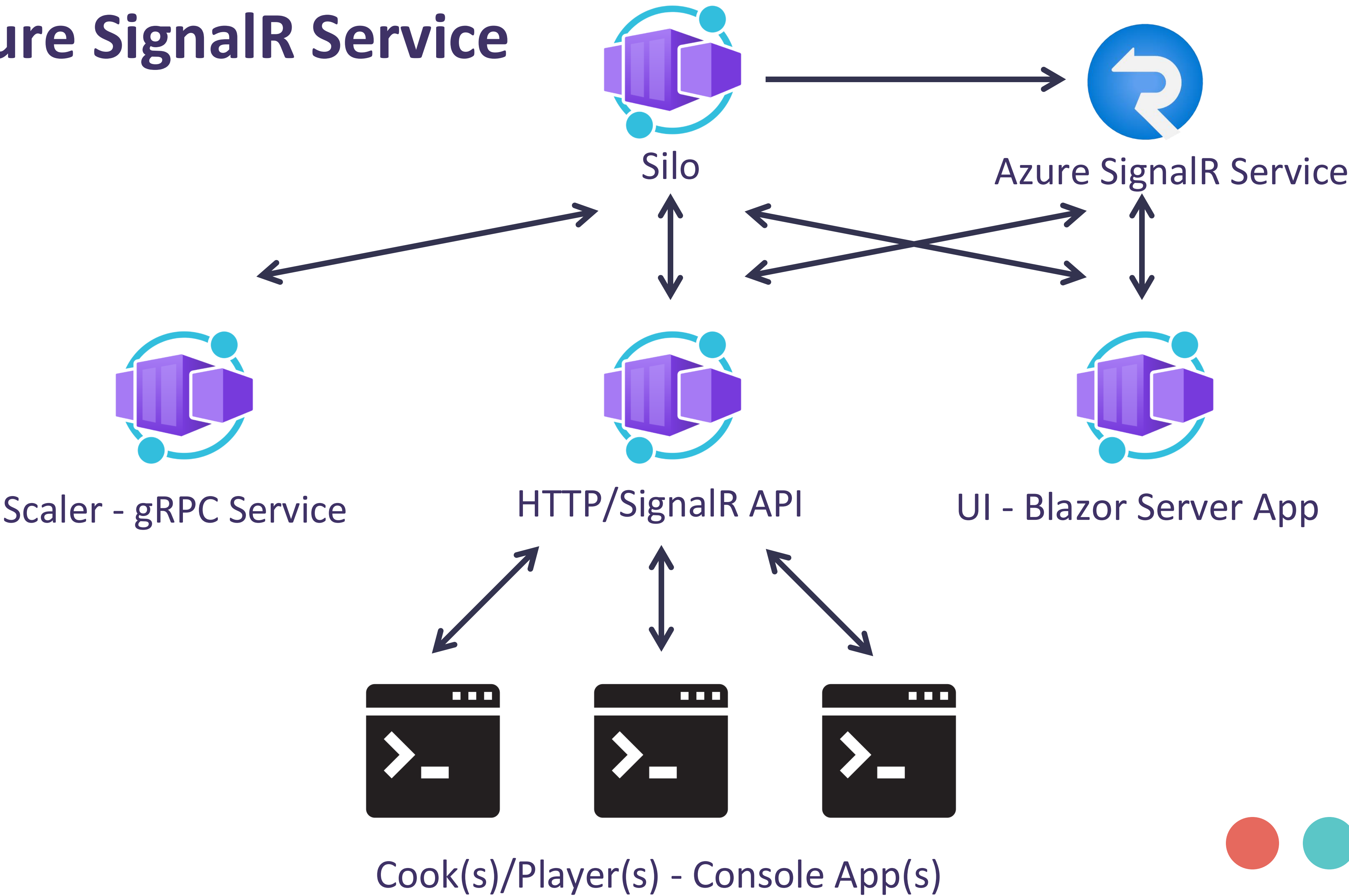


# Custom KEDA Scaler





# Azure SignalR Service







Questions?





@involved\_it

Veldkant 35C, 2550 Kontich