

**involved**

**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



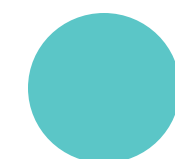
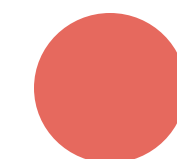
Koen Seeuws



koen-seeuws

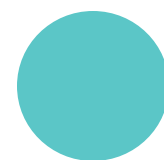
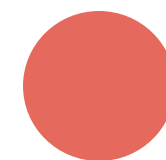


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The logo for 'involved' features three small colored dots (teal, red, and purple) above the letter 'i'. The word 'involved' is written in a bold, dark blue, sans-serif font.



# The Code Kitchen



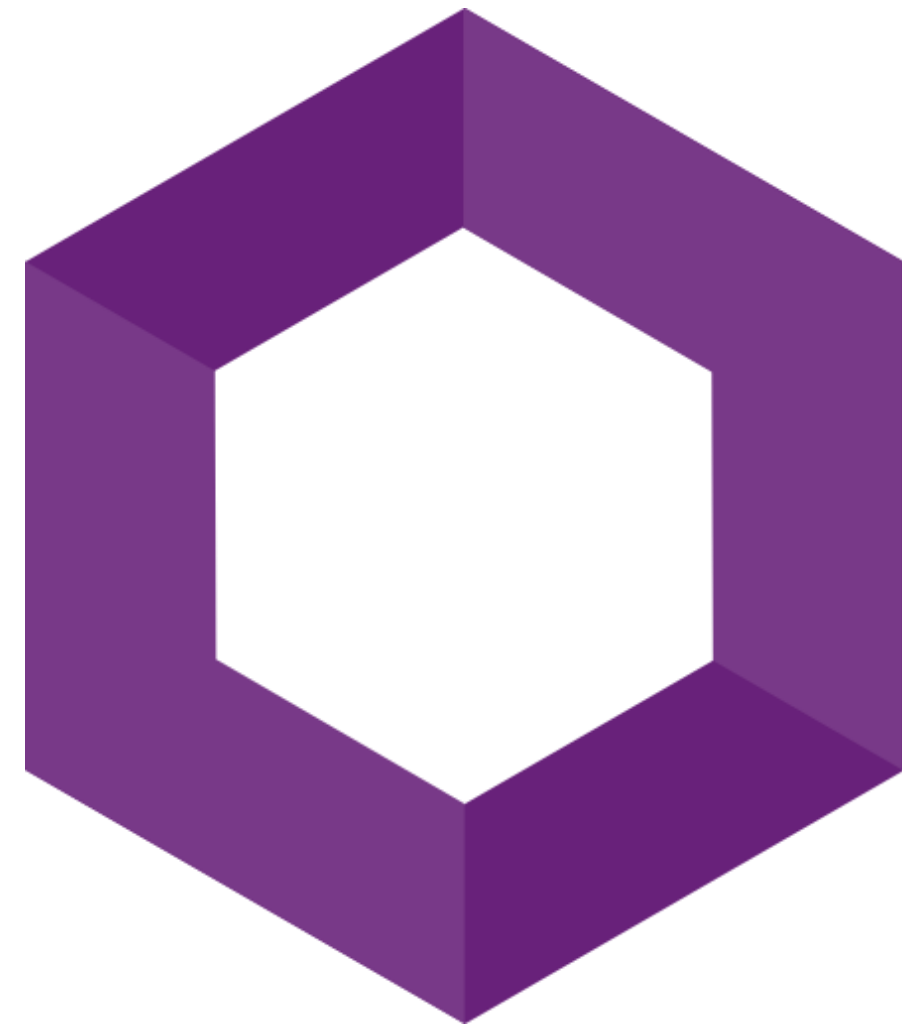


A photograph of a wooden desk with a stack of papers. The papers are of various colors, including white, light blue, and light green. The word "Orleans!" is written in white, bold, sans-serif font across the middle of the stack. The background is a blurred view of a room with a window and some furniture.

**Orleans!**



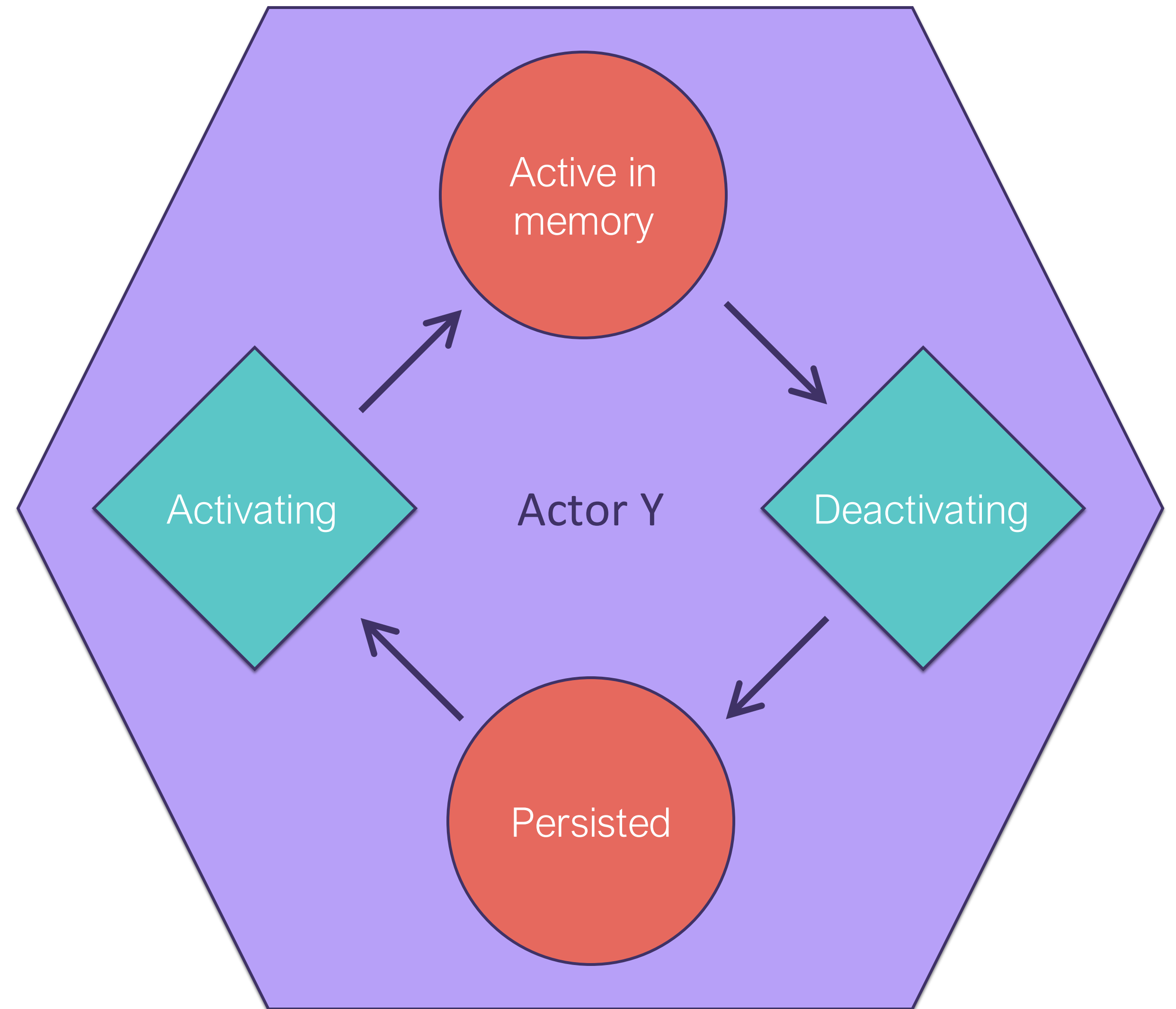
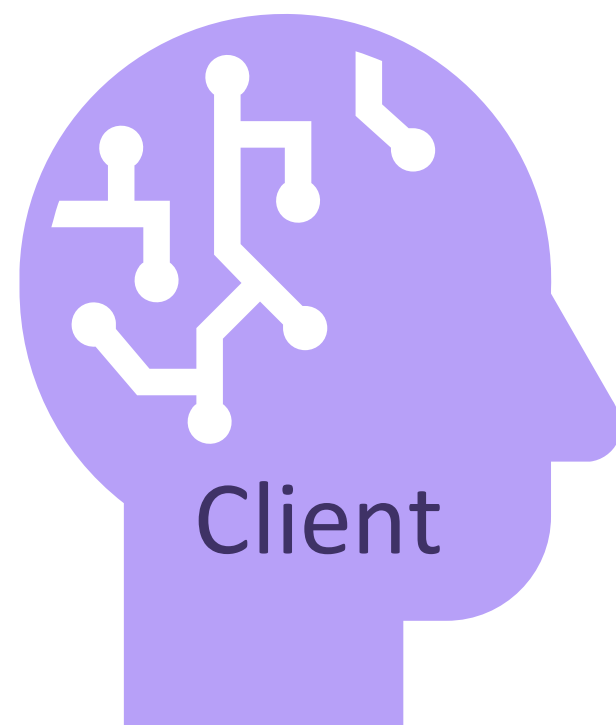
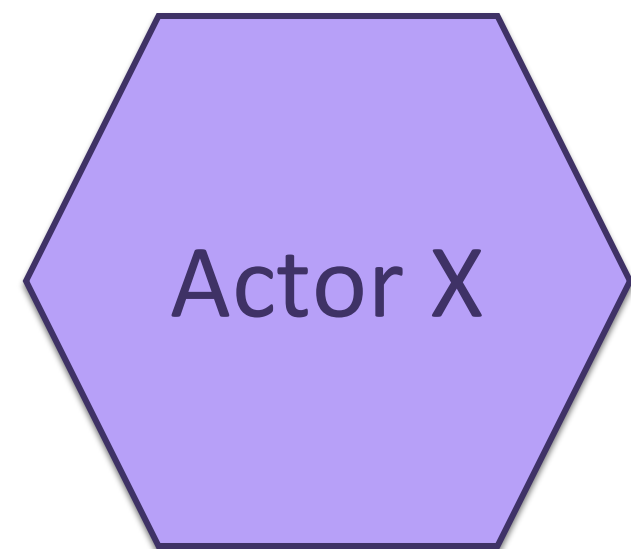
# What is Orleans?



# Orleans



# The Virtual Actor Model



# Grains

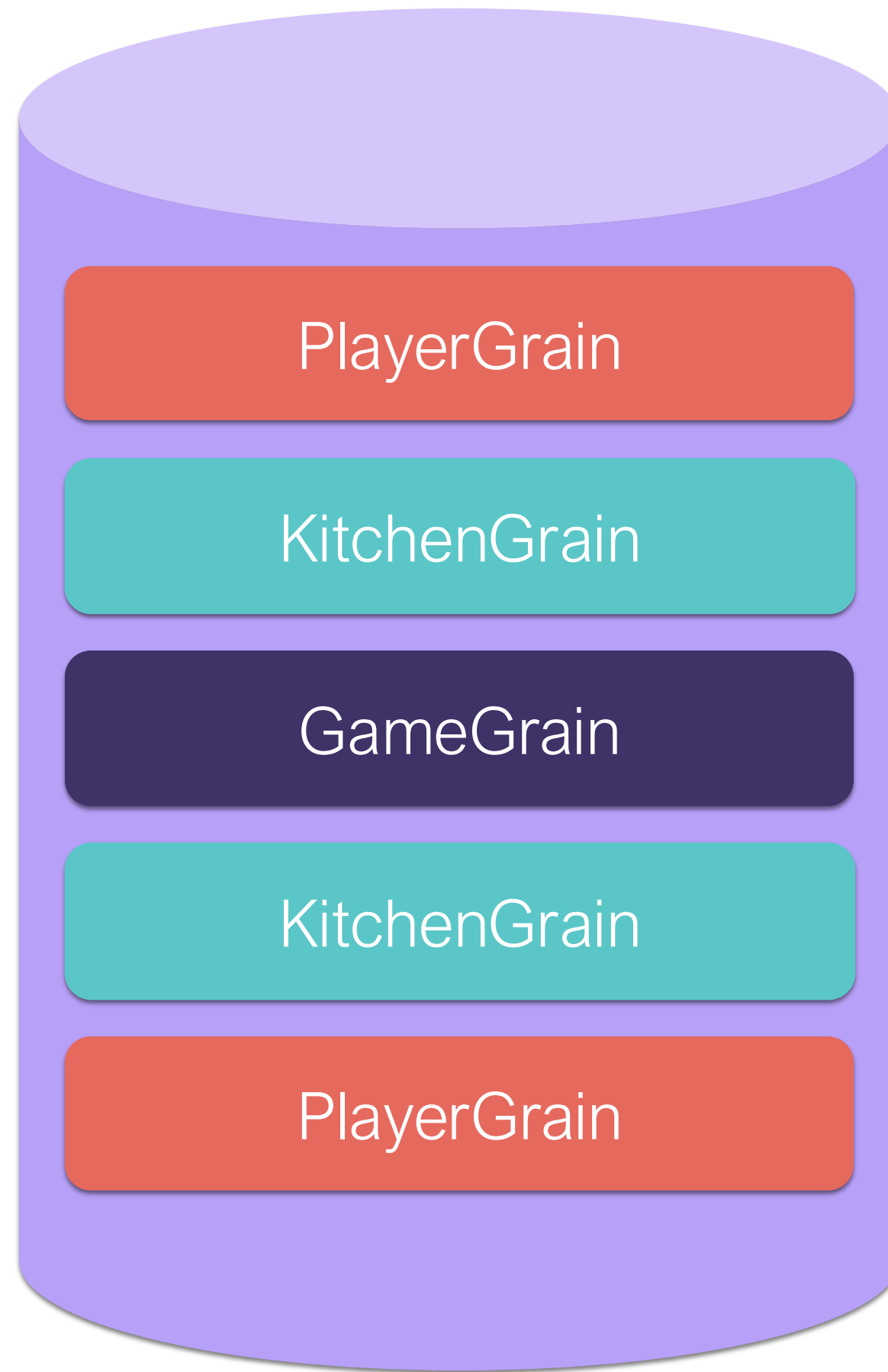
Pantry/3F2504E0-4F89-...      In-memory or persisted

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

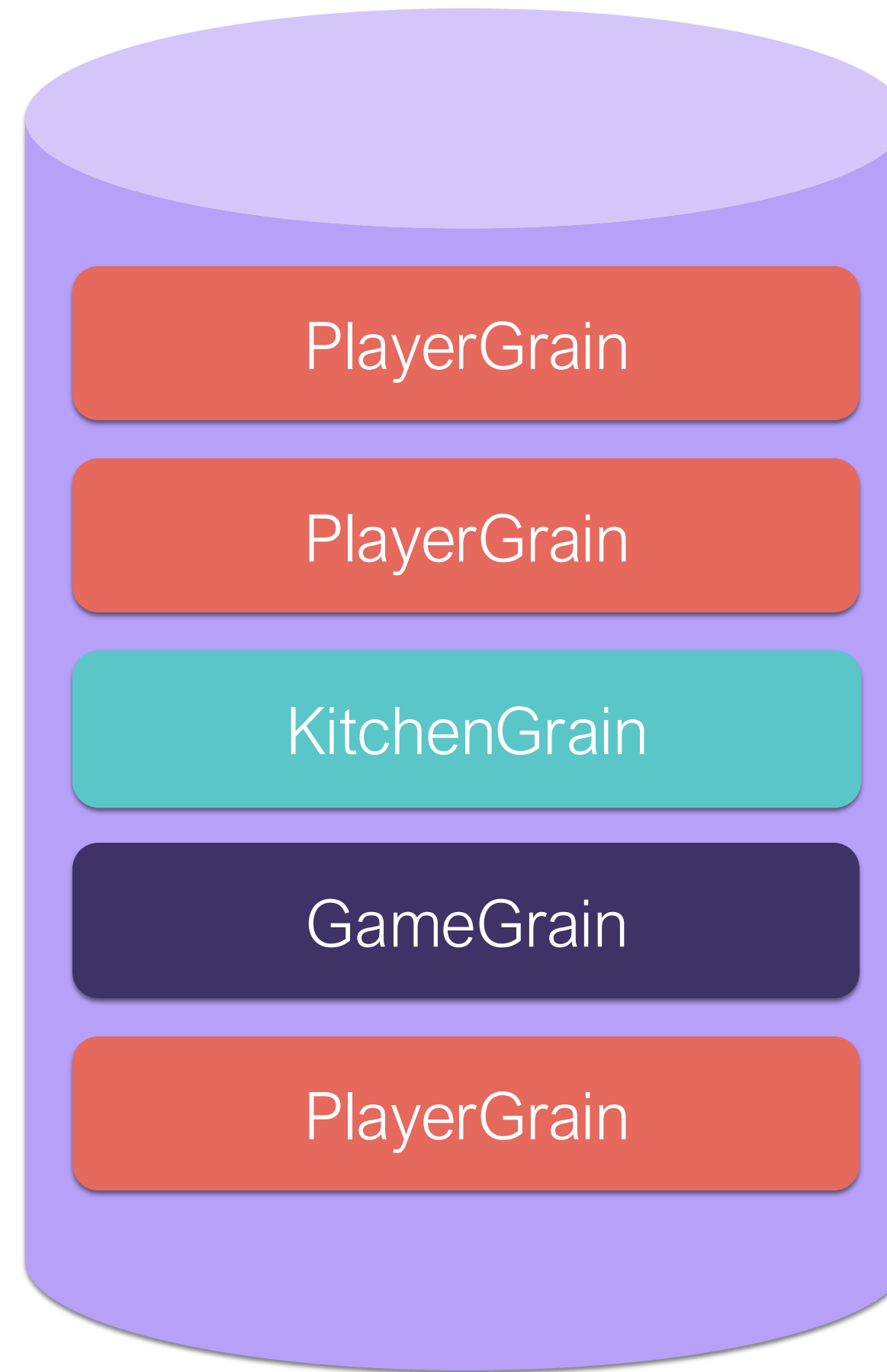
PantryGrain : Grain, IPantryGrain



# 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 on the stack of papers.

# Features



# Persistent State



Microsoft  
Azure





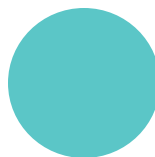
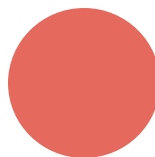
DynamoDB





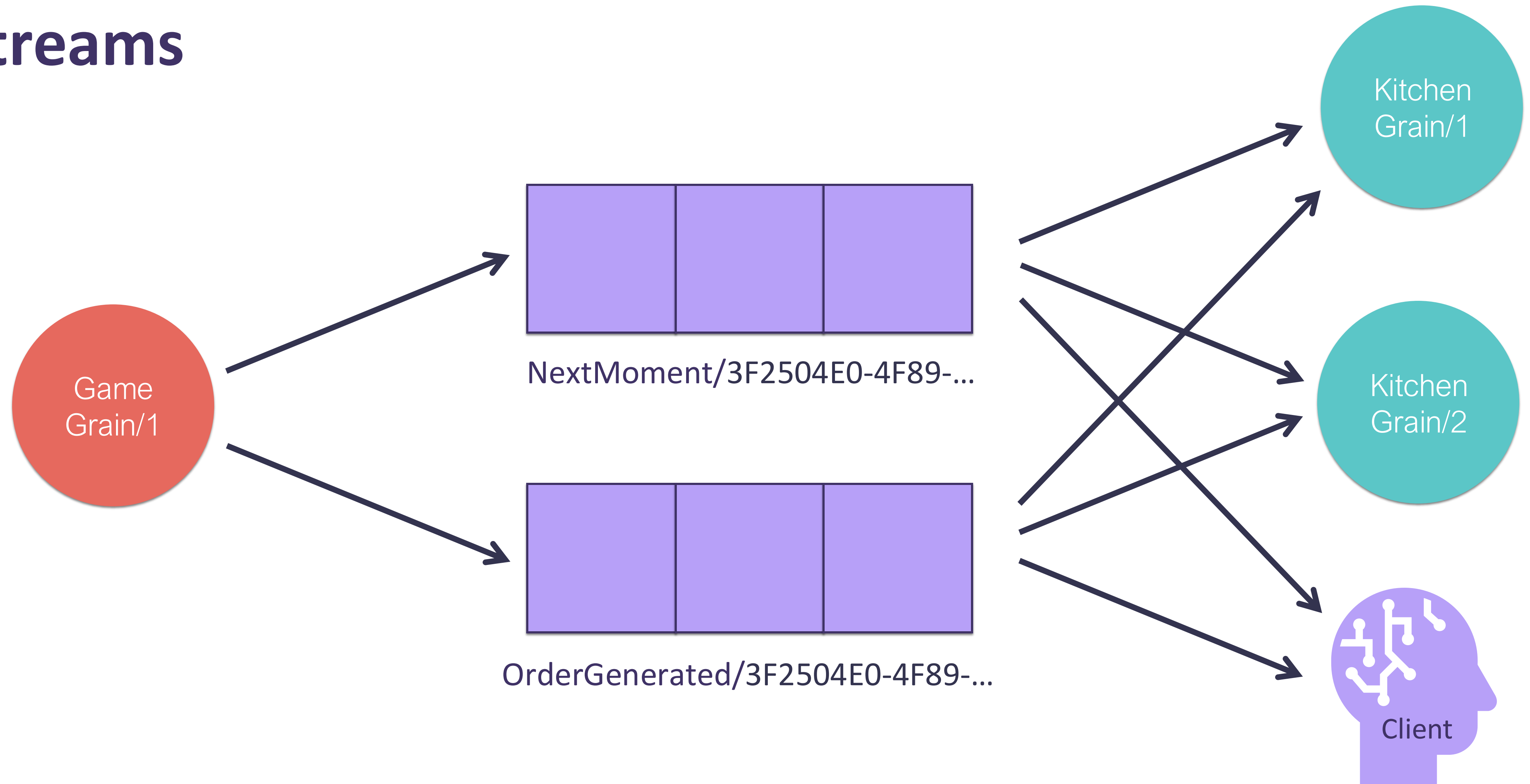
# Timers & Reminders

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





# Streams



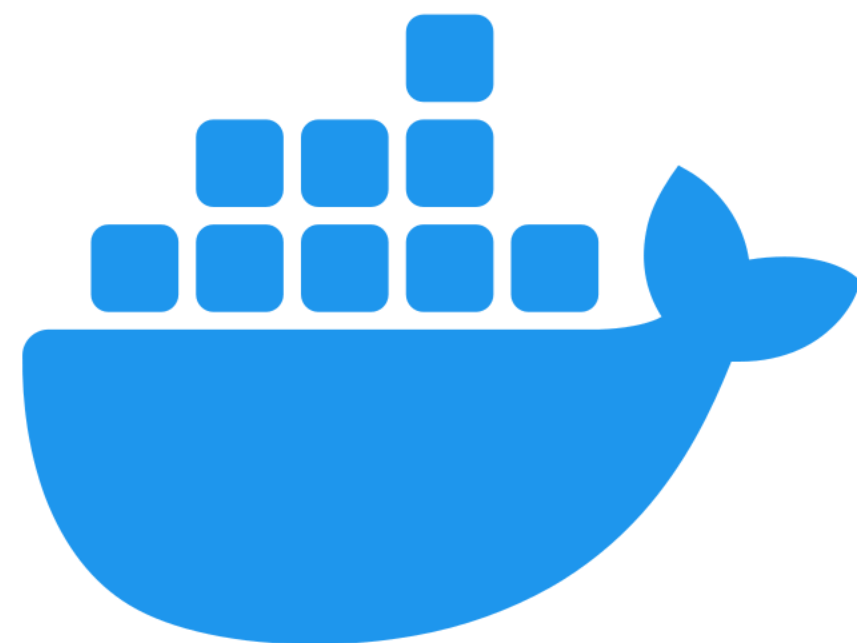
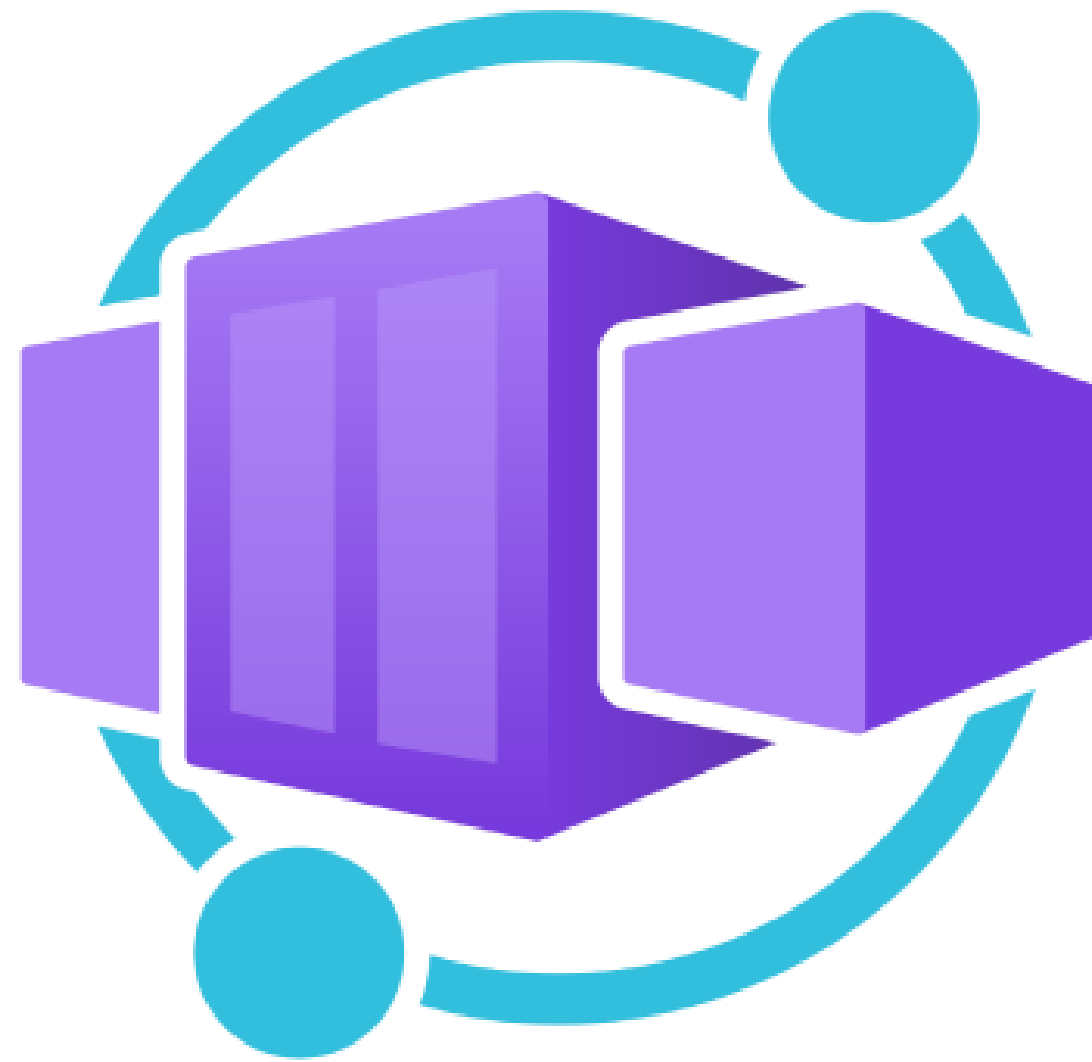


The image features a stack of papers on a wooden desk, with a dark purple overlay. The word "Deployment" is written in white, bold, sans-serif font across the middle of the stack. The background is a blurred image of a desk with a wooden surface and a stack of papers. The overall color scheme is dominated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

# Deployment

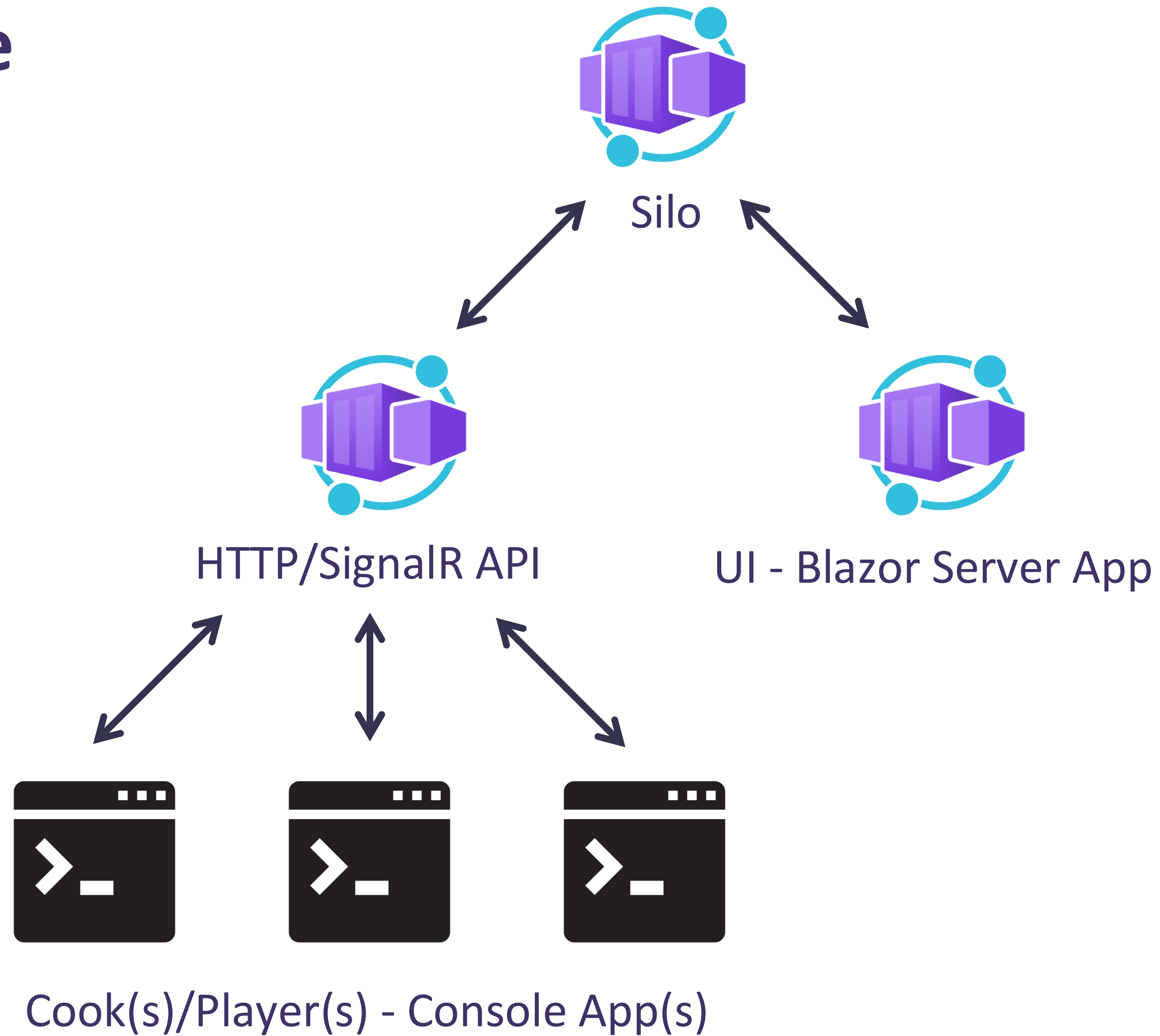


# Azure Container Apps

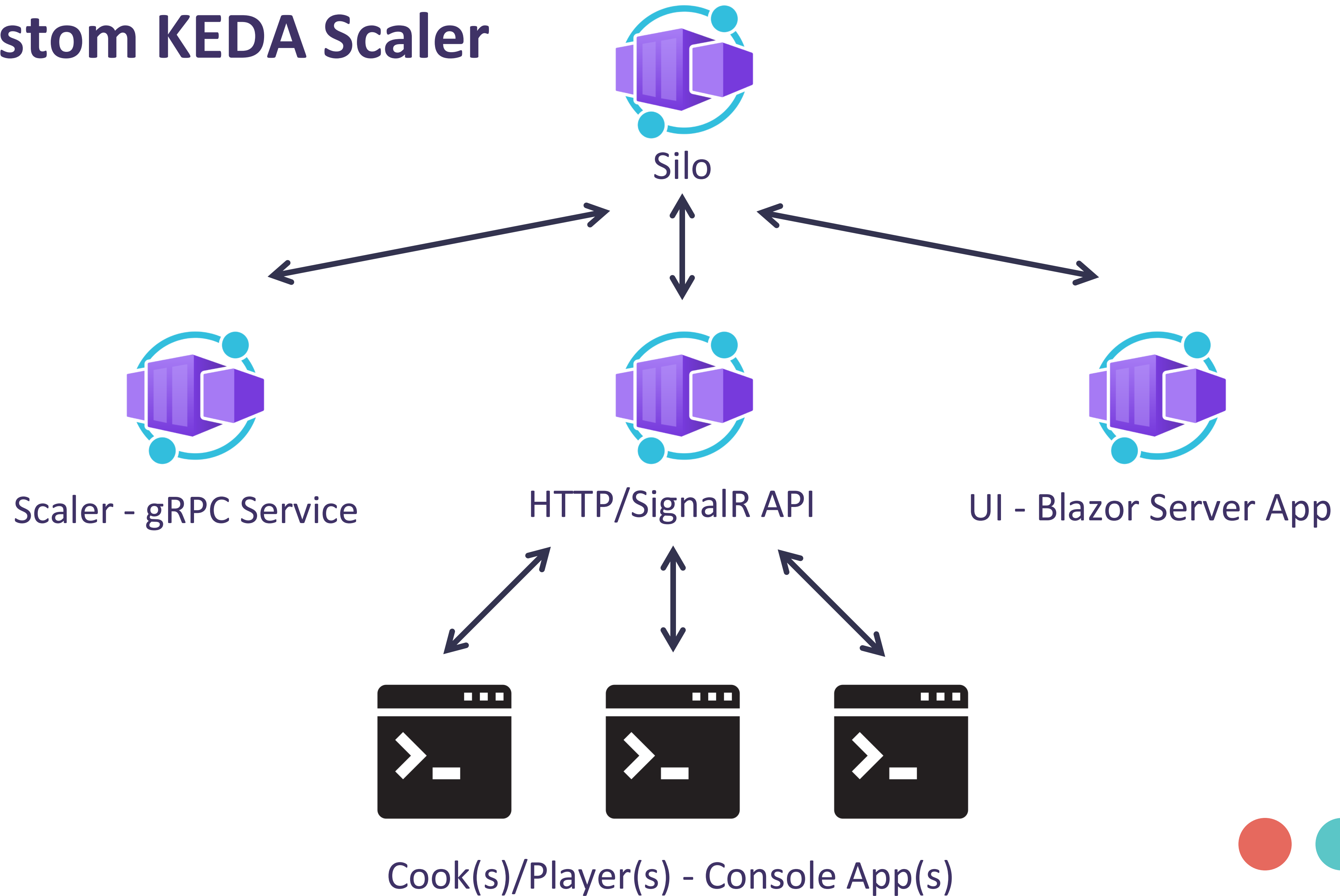




# Architecture

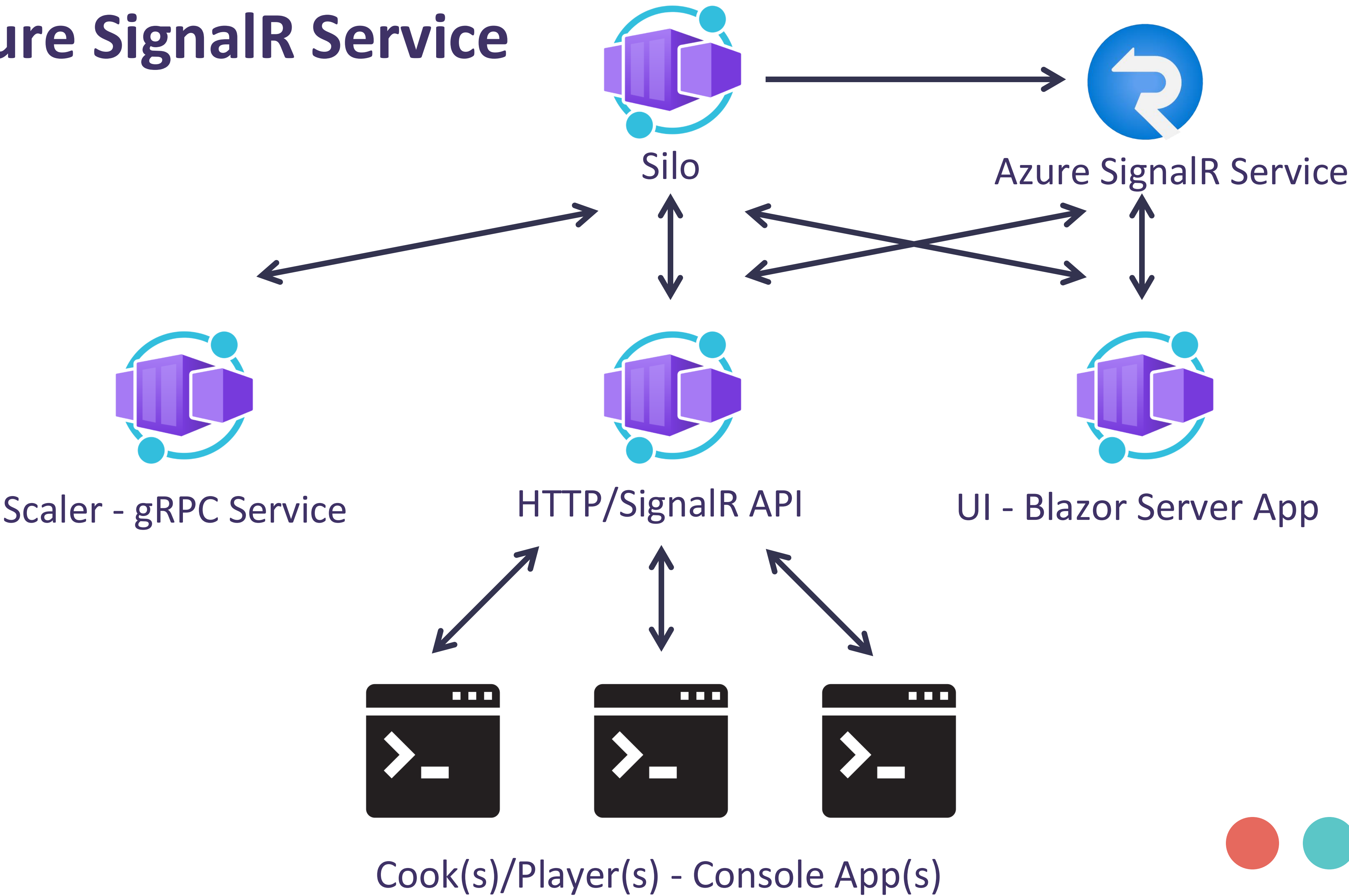


# Custom KEDA Scaler





# Azure SignalR Service



# Thank you!

## Questions?

 Koen Seeuws

 koen-seeuws



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