Implementing Azure Durable Functions

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Azure Durable Functions

An extension to Azure Functions

Create stateful, serverless workflows (“orchestrations”)

Three Types of Function

Client ("Starter") Function

Initiate a new orchestration

Use any trigger

Orchestrator Function

Defines the steps in the workflow

Handle errors

Activity Function

Implements a step in the workflow

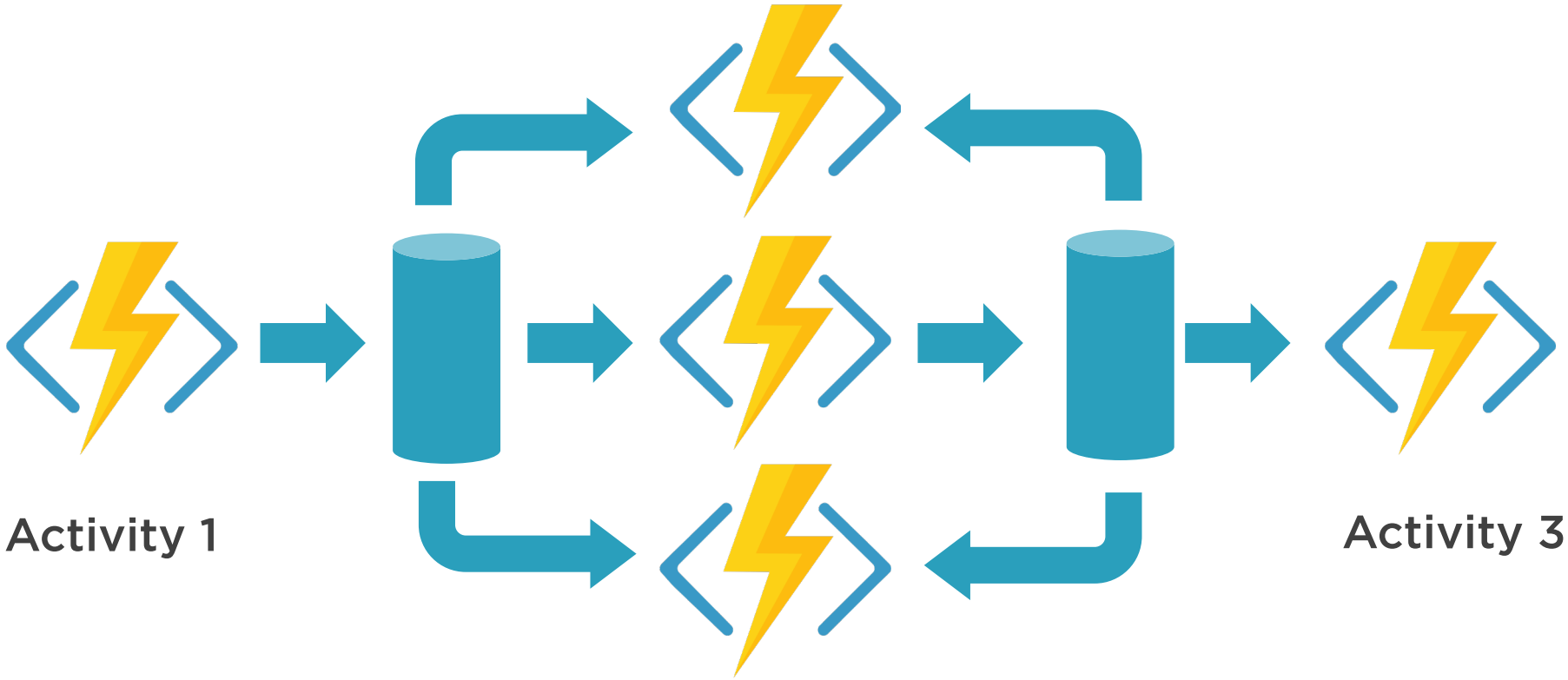
Use any bindings

Use C# or JavaScript for Durable Functions

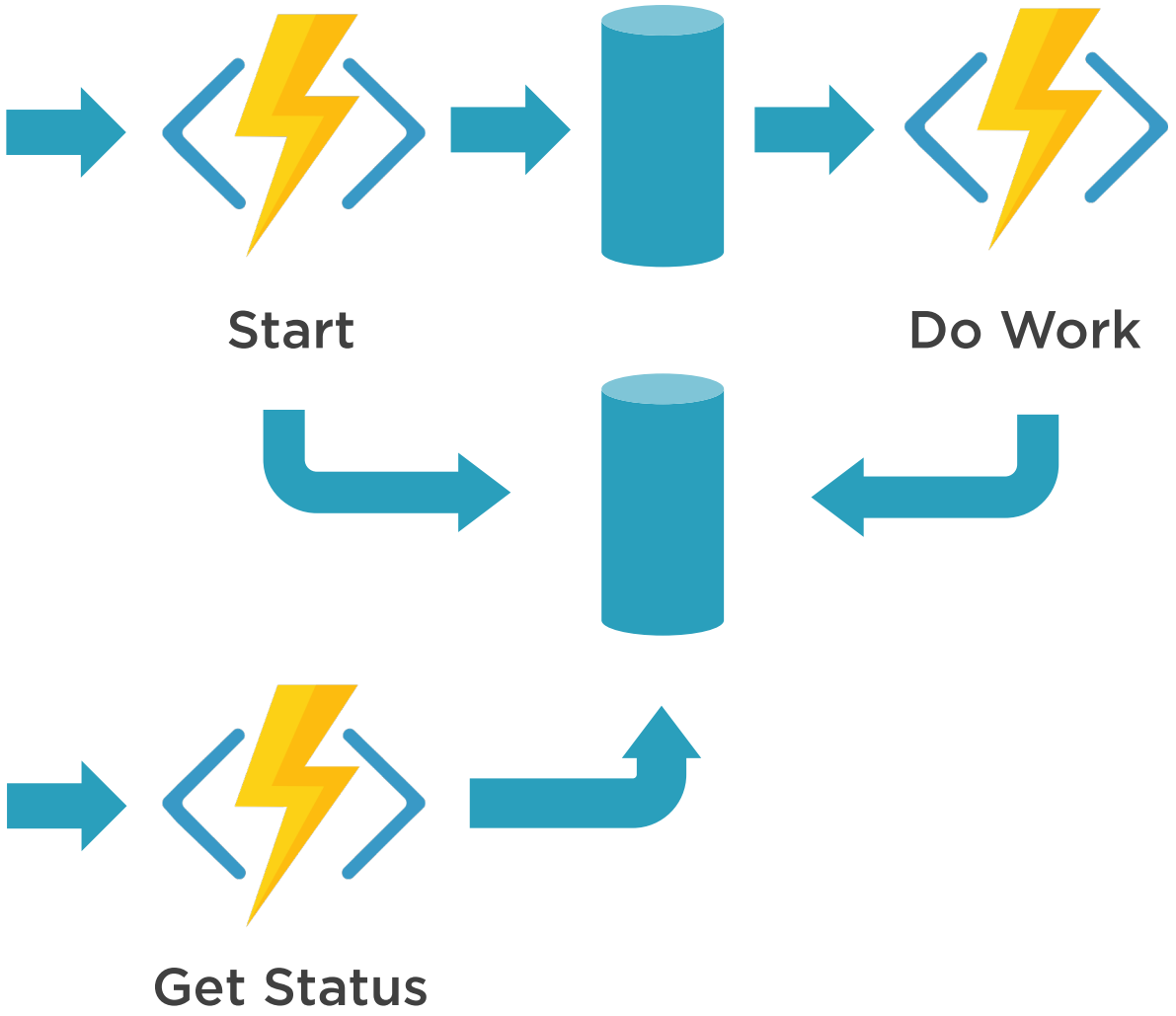
Orchestration Patterns

Function Chaining

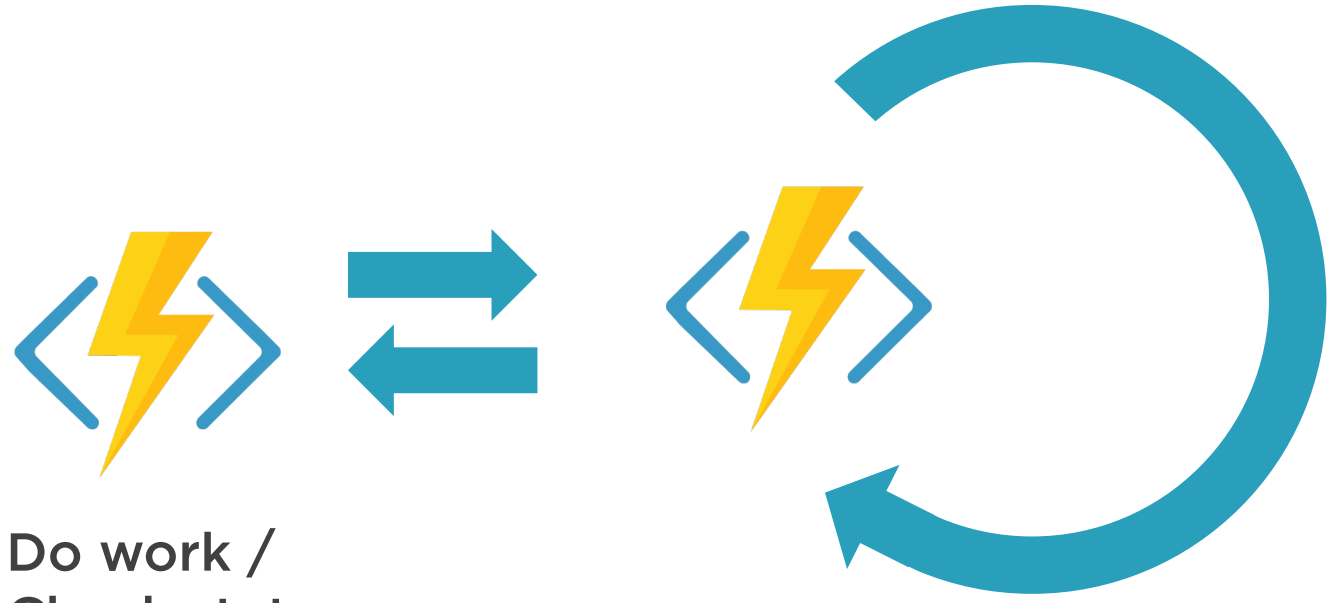
Fan-out Fan-in



Asynchronous HTTP APIs



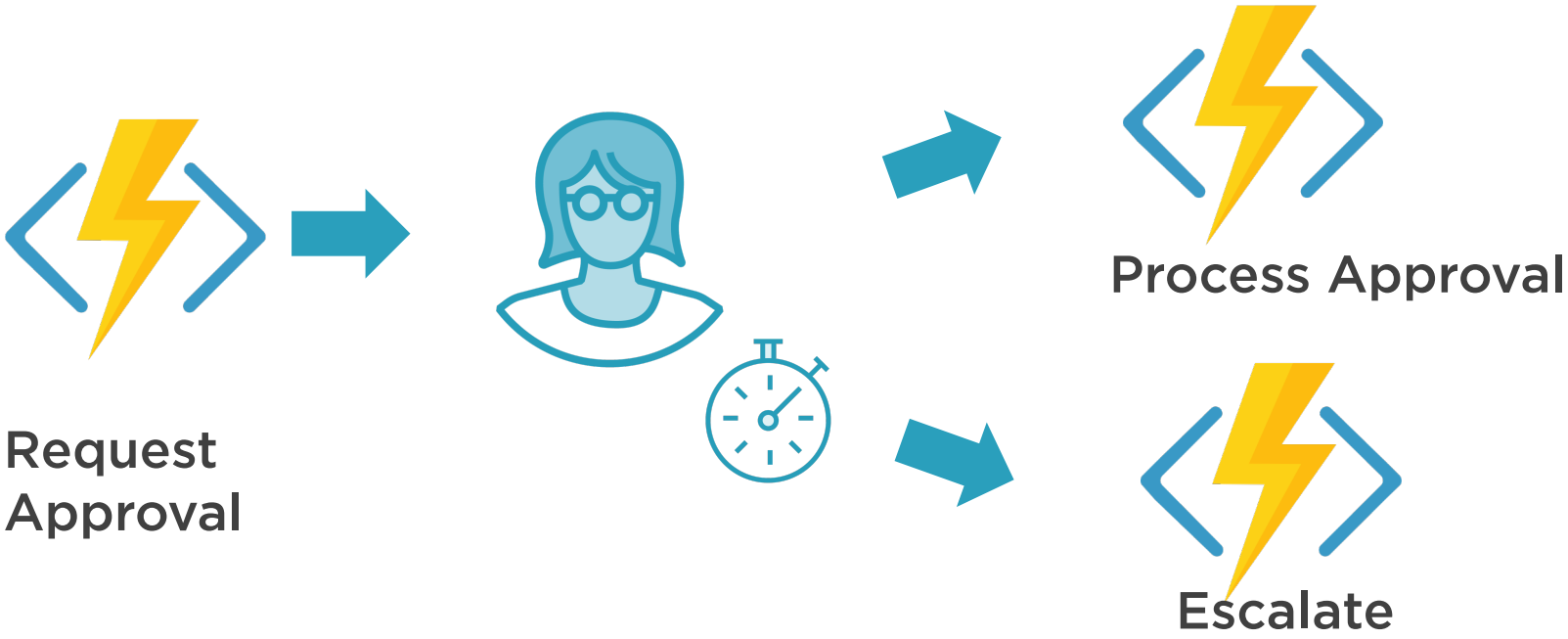
Monitor



Do work /
Check status

Poll and sleep

Human Interaction



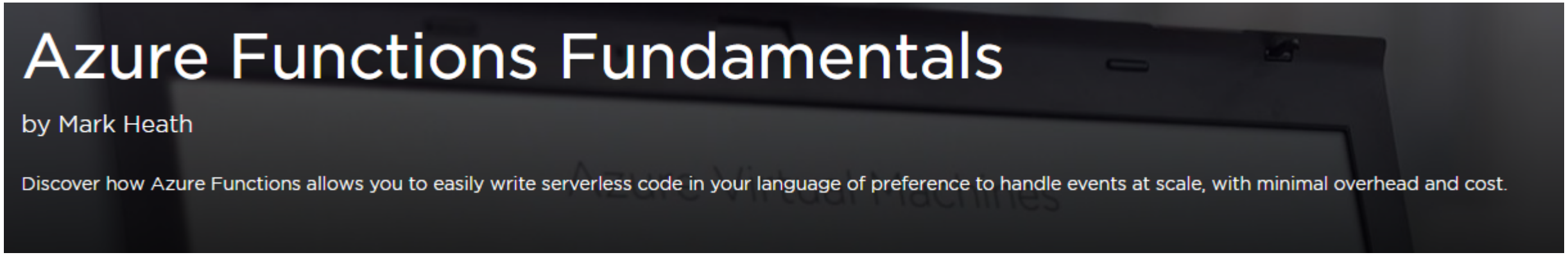
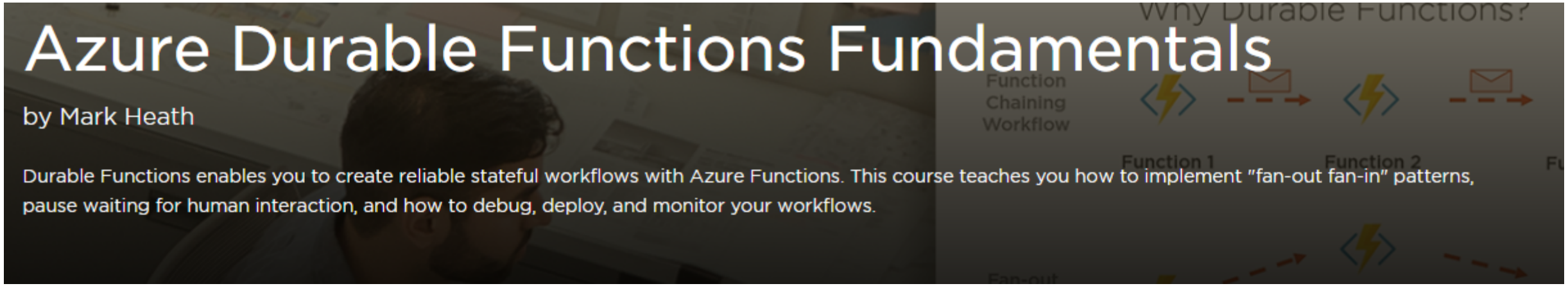
Demo

Create a Durable Functions workflow

Demo

Test Durable Functions orchestration

Durable Functions are a great way to implement serverless workflows

Sub-orchestrations allow one orchestration to trigger another orchestration

Going Deeper