

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



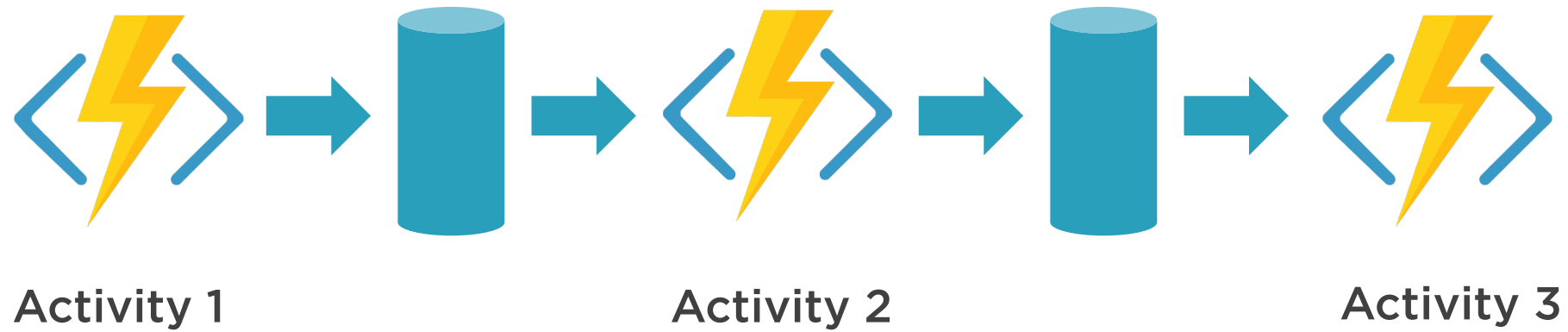
Use C# or JavaScript for
Durable Functions



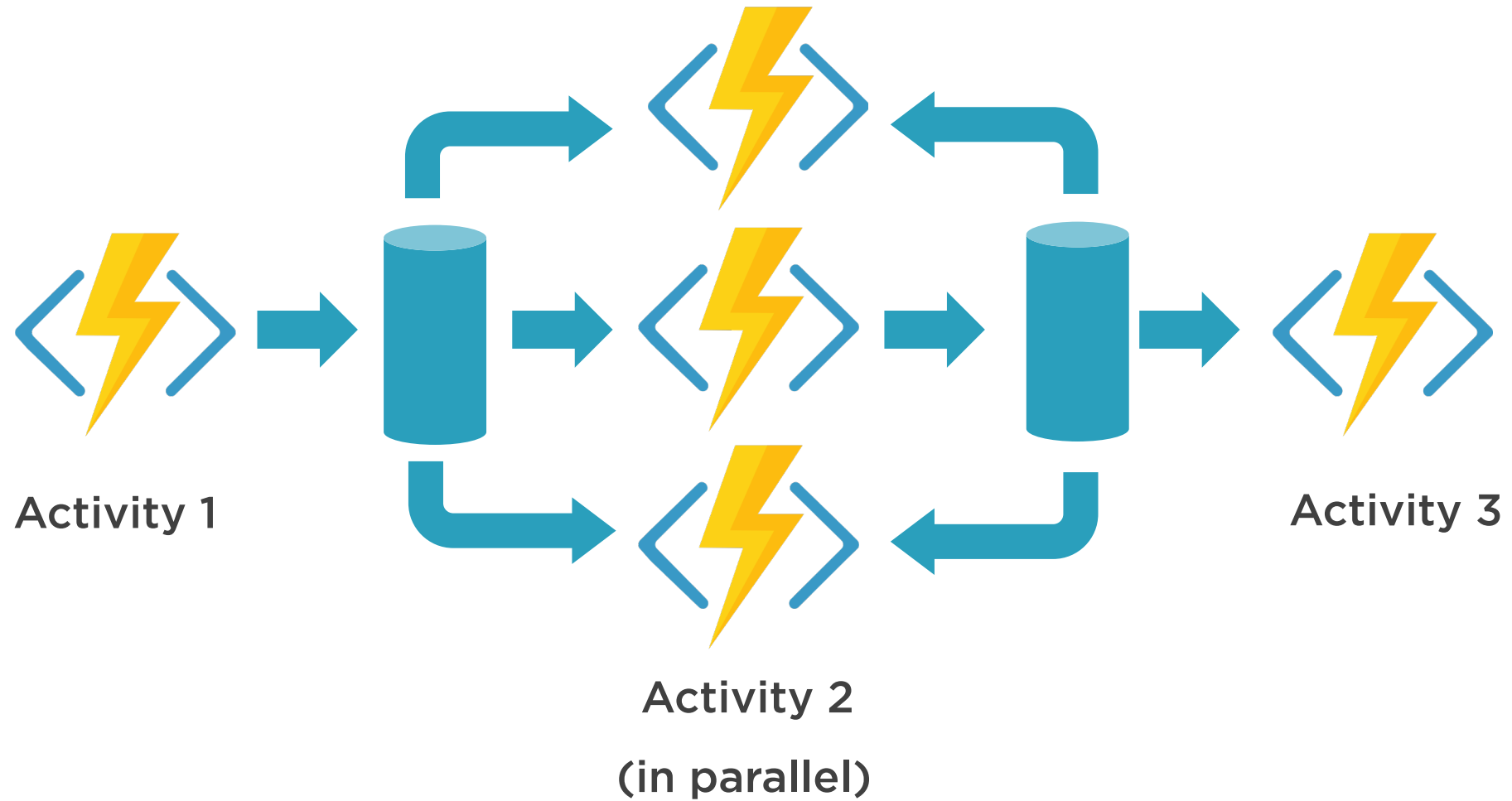
Orchestration Patterns



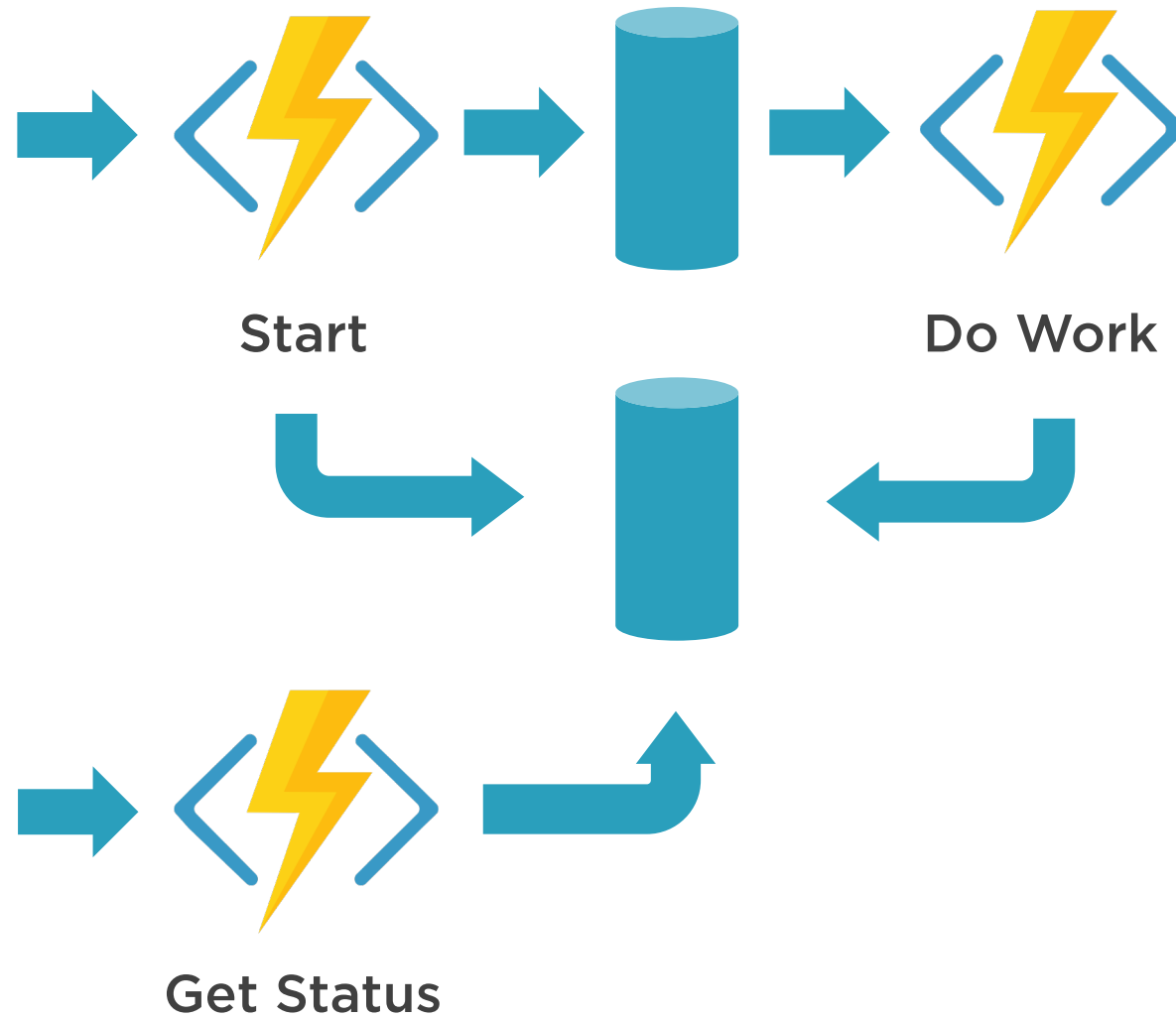
Function Chaining



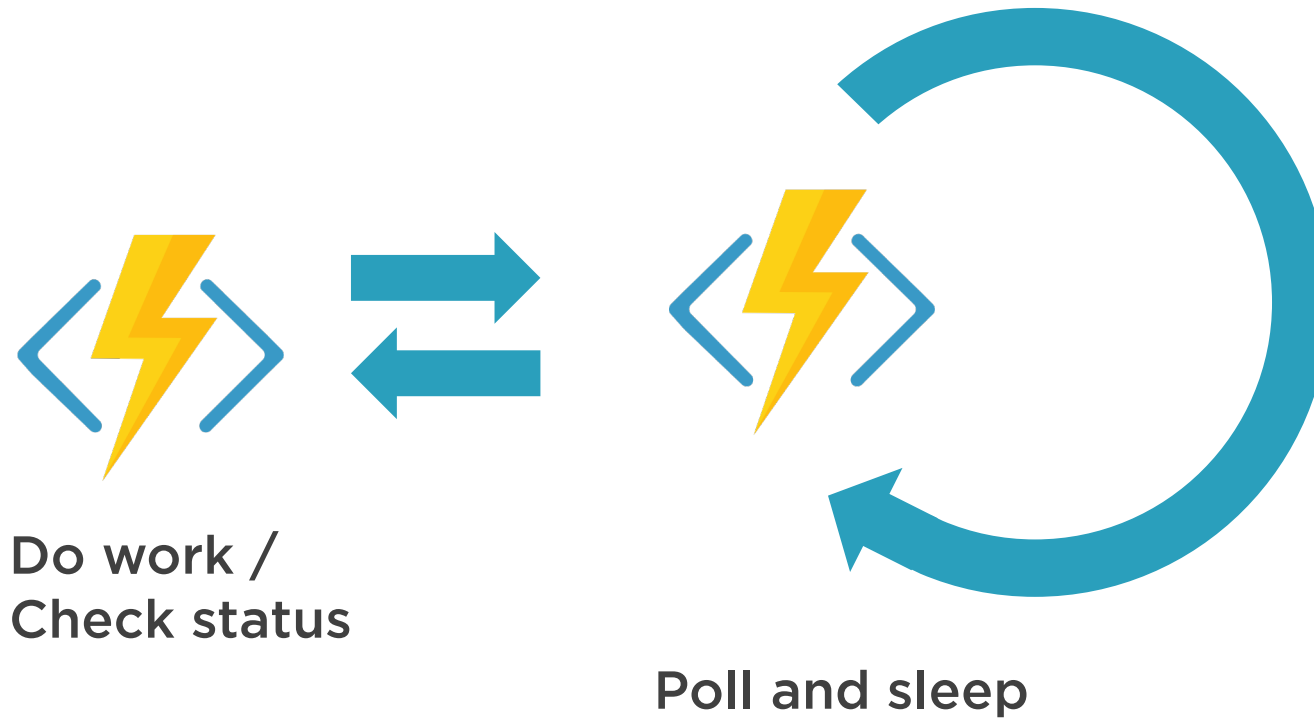
Fan-out Fan-in



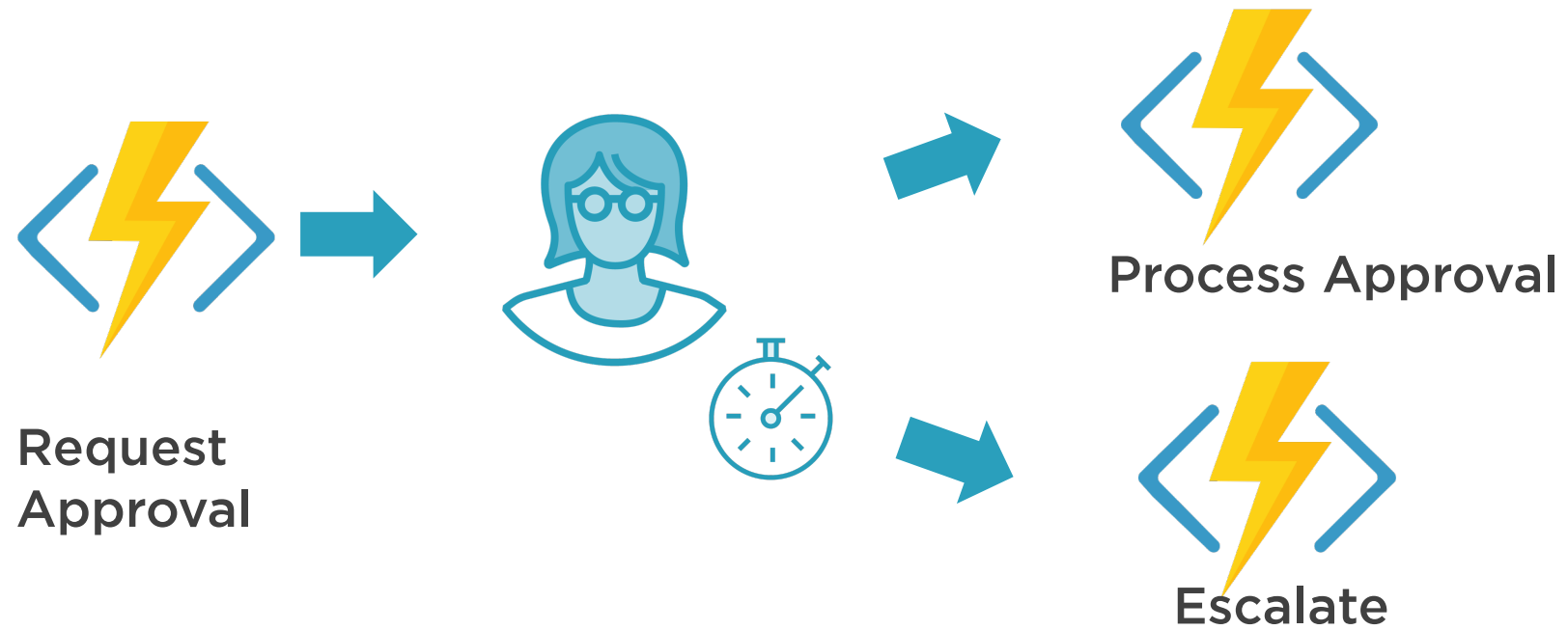
Asynchronous HTTP APIs



Monitor



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

Azure Functions Fundamentals

by Mark Heath

Discover how Azure Functions allows you to easily write serverless code in your language of preference to handle events at scale, with minimal overhead and cost.

Azure Durable Functions Fundamentals

by Mark Heath

Durable Functions enables you to create reliable stateful workflows with Azure Functions. This course teaches you how to implement "fan-out fan-in" patterns, pause waiting for human interaction, and how to debug, deploy, and monitor your workflows.

