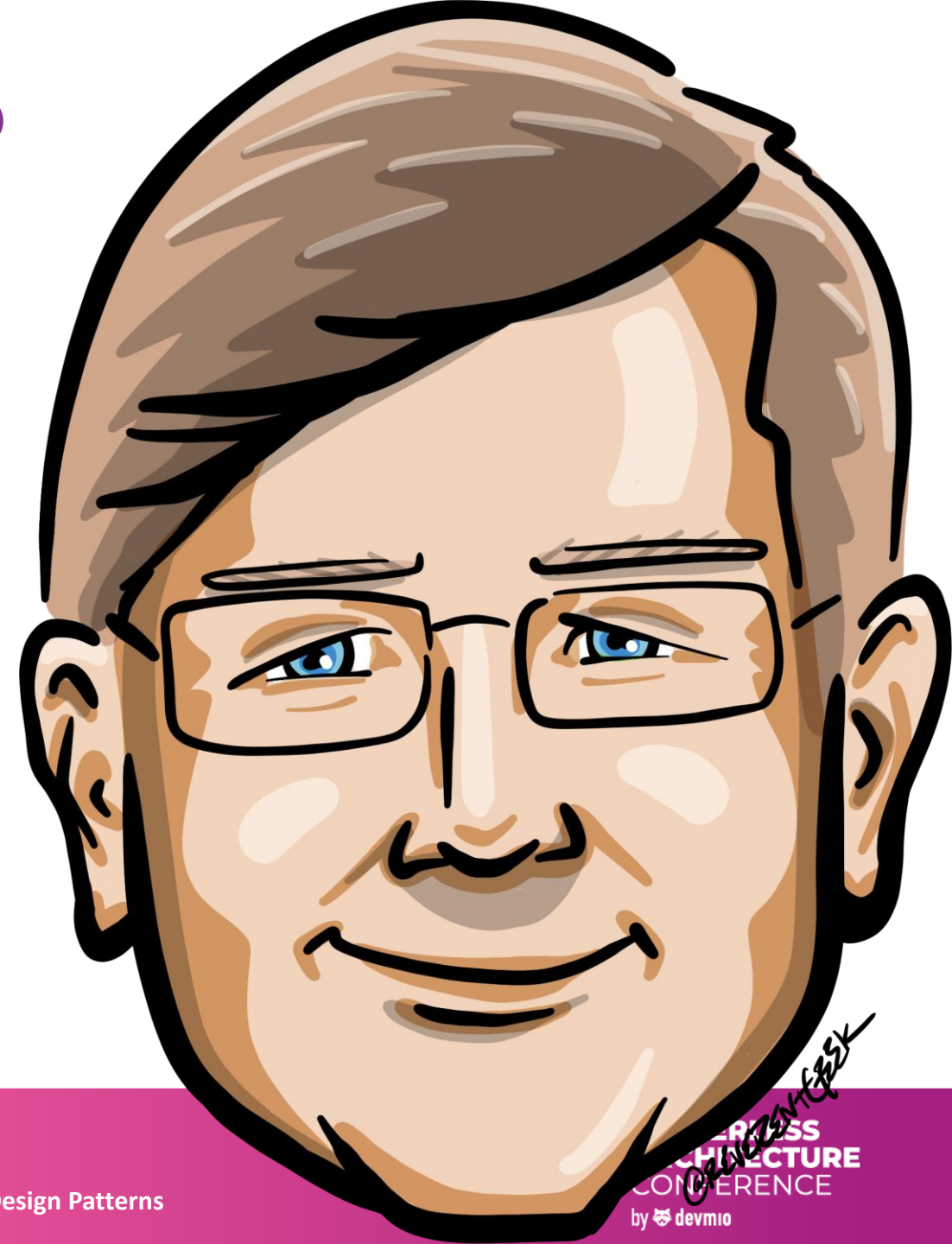




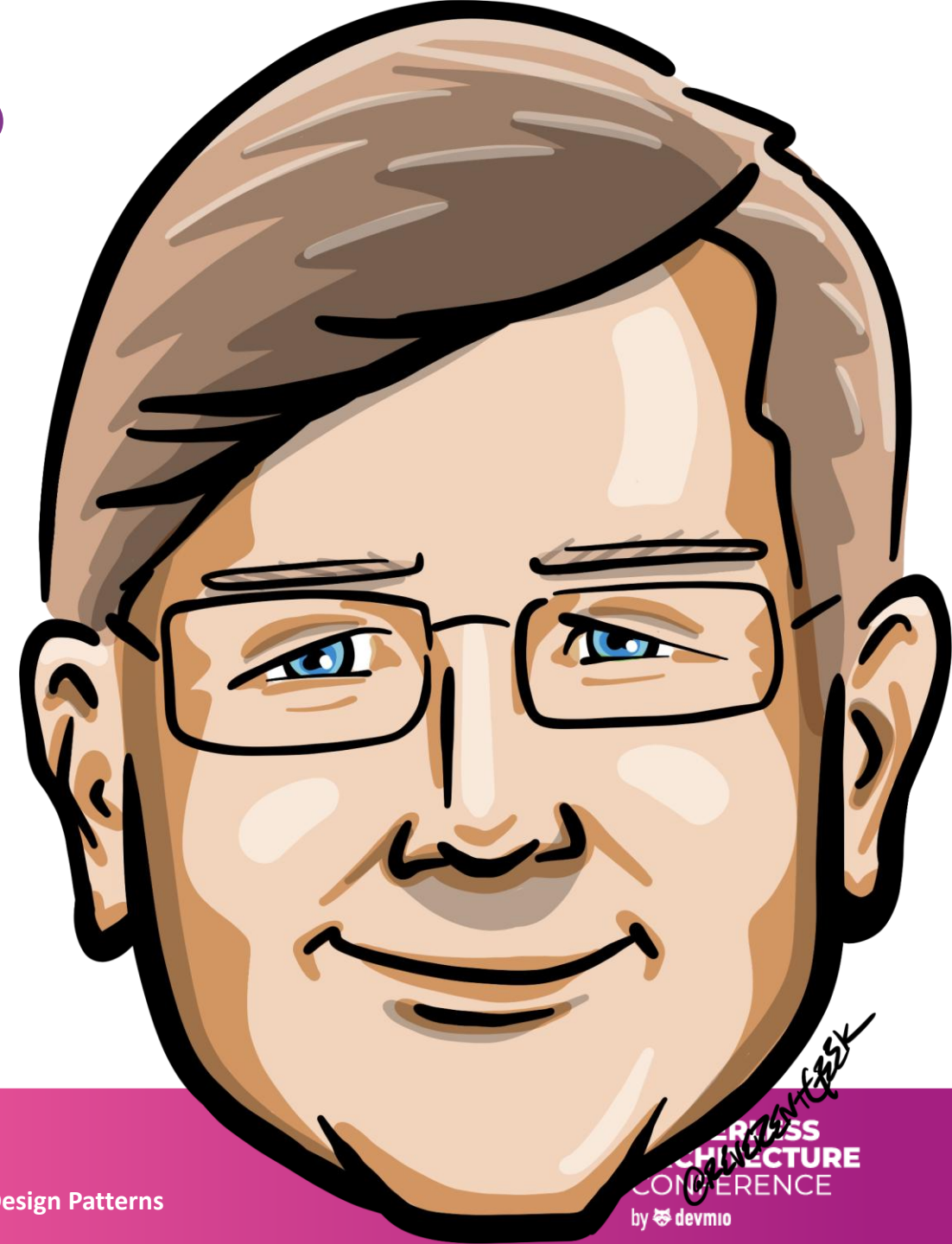
Architect Like a Boss

Mastering Serverless Design Patterns

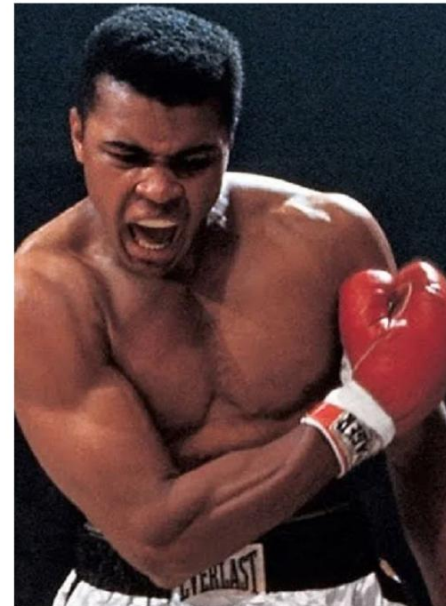
Who is Chad Green?



Who is Chad Green?



My hometown



Grew up in software development



Lots of Programming Languages

BASIC

Microsoft BASIC
GW-Basic
QuickBASIC
Visual Basic
VB.NET

C

C
C++
C#
Java

Niche

JavaScript
Pascal
Python
PHP
COBOL

Software development paradigms

Console Applications

Desktop Applications

Distributed Desktop Applications

Web Applications

Distributed Web Applications

COM

DCMO

.NET

Entity Framework

MVC

Service-Oriented Architecture

Microservices

Cloud-Computing

Serverless Computing

Serverless Computing

Functions-as-a-Service

Event-Driven Architecture

Microservices

Work Experience



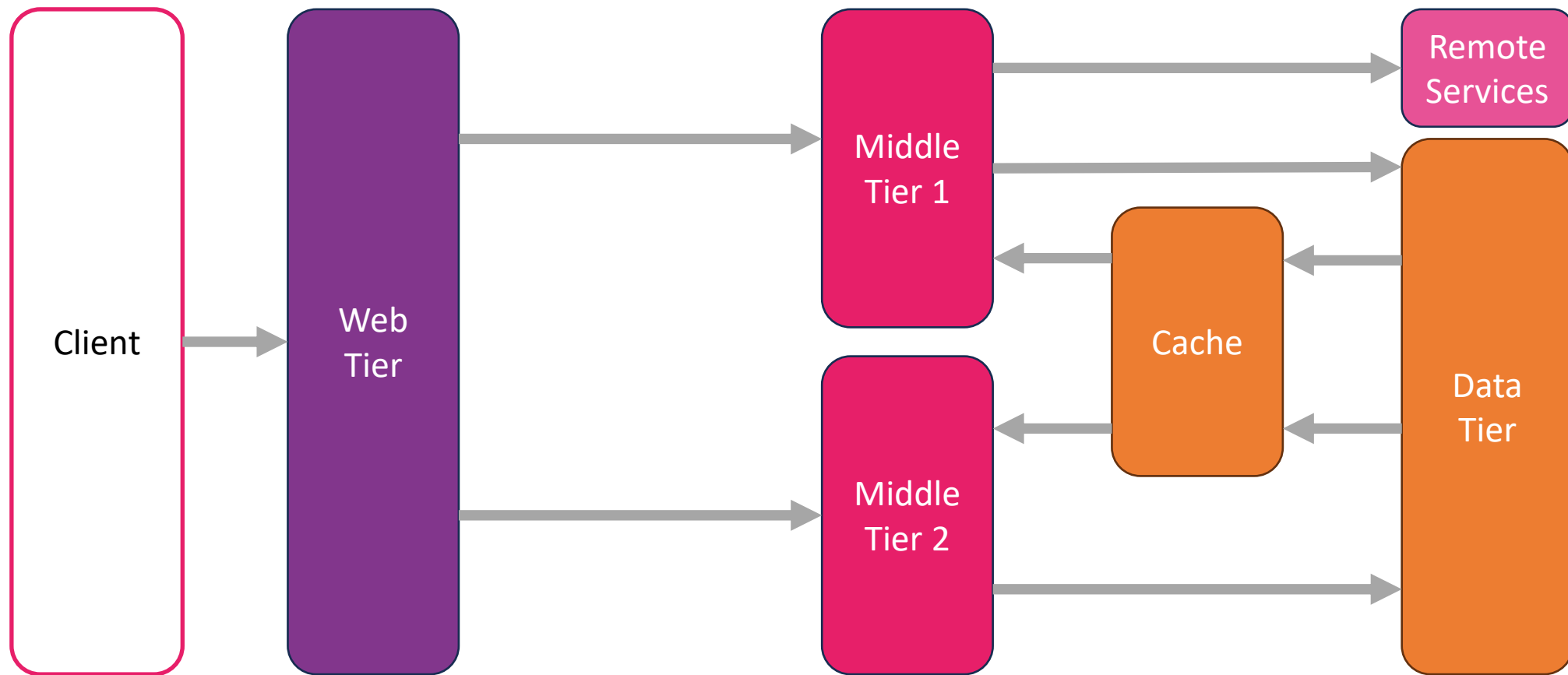
Disclaimer



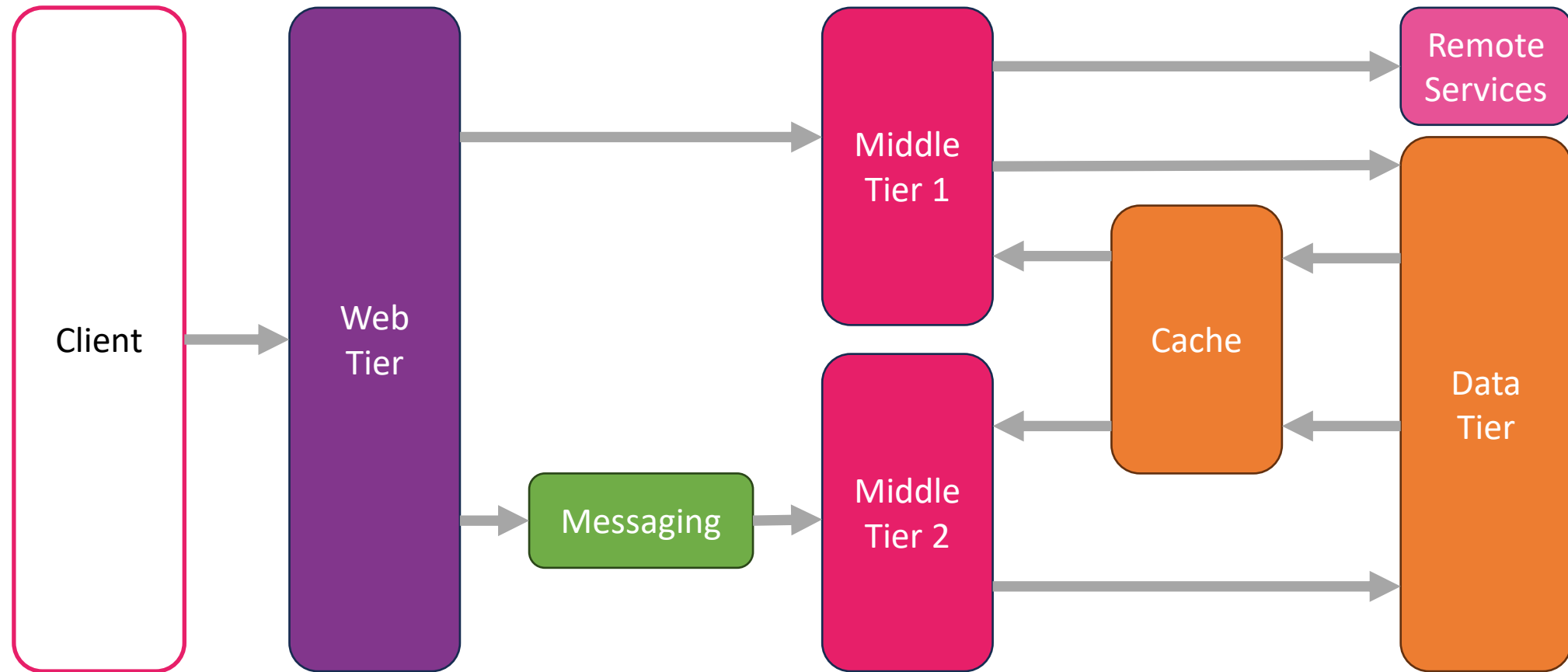
Architecture Styles

Crack the Code to Scalability

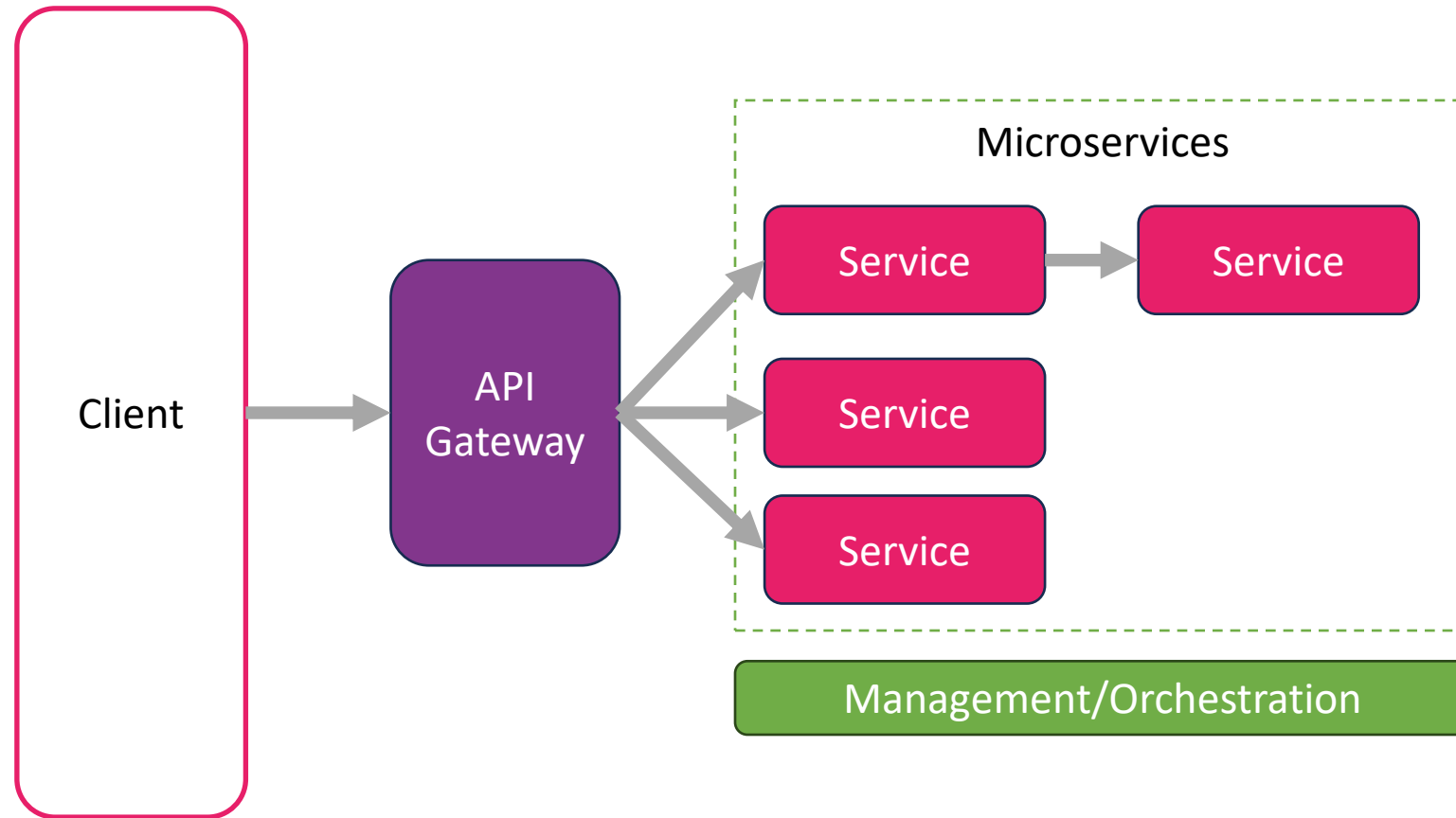
N-Tier



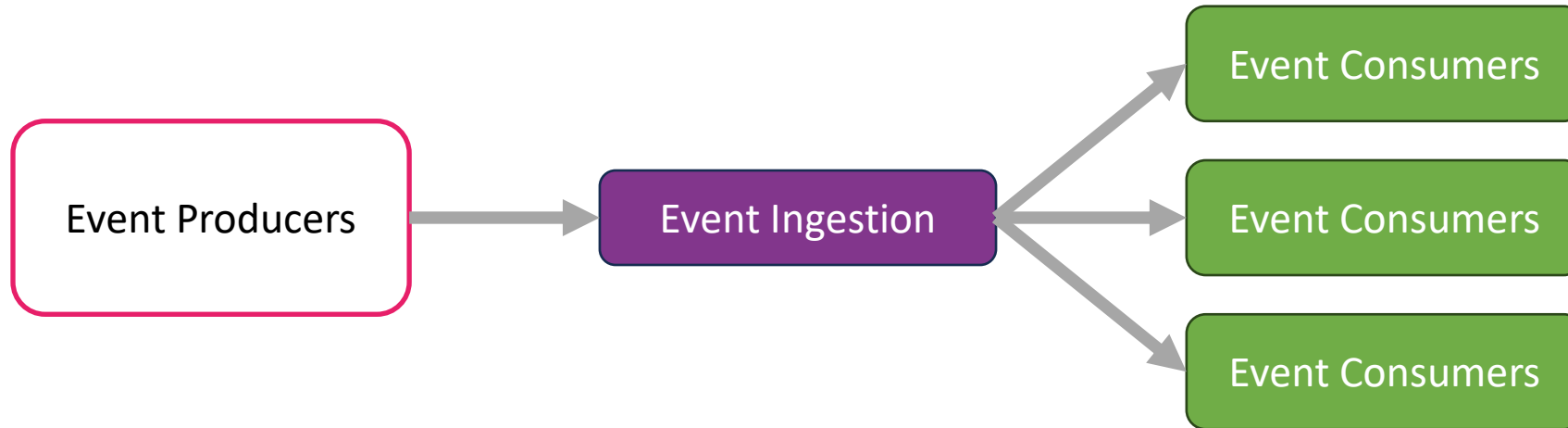
N-Tier with Messaging



Microservices



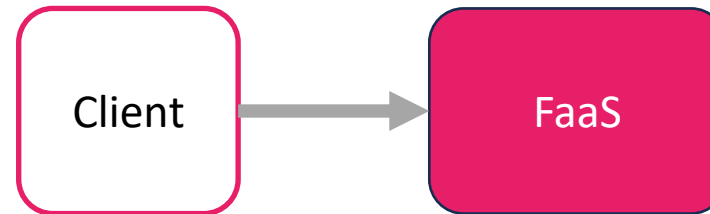
Event-Driven Architecture



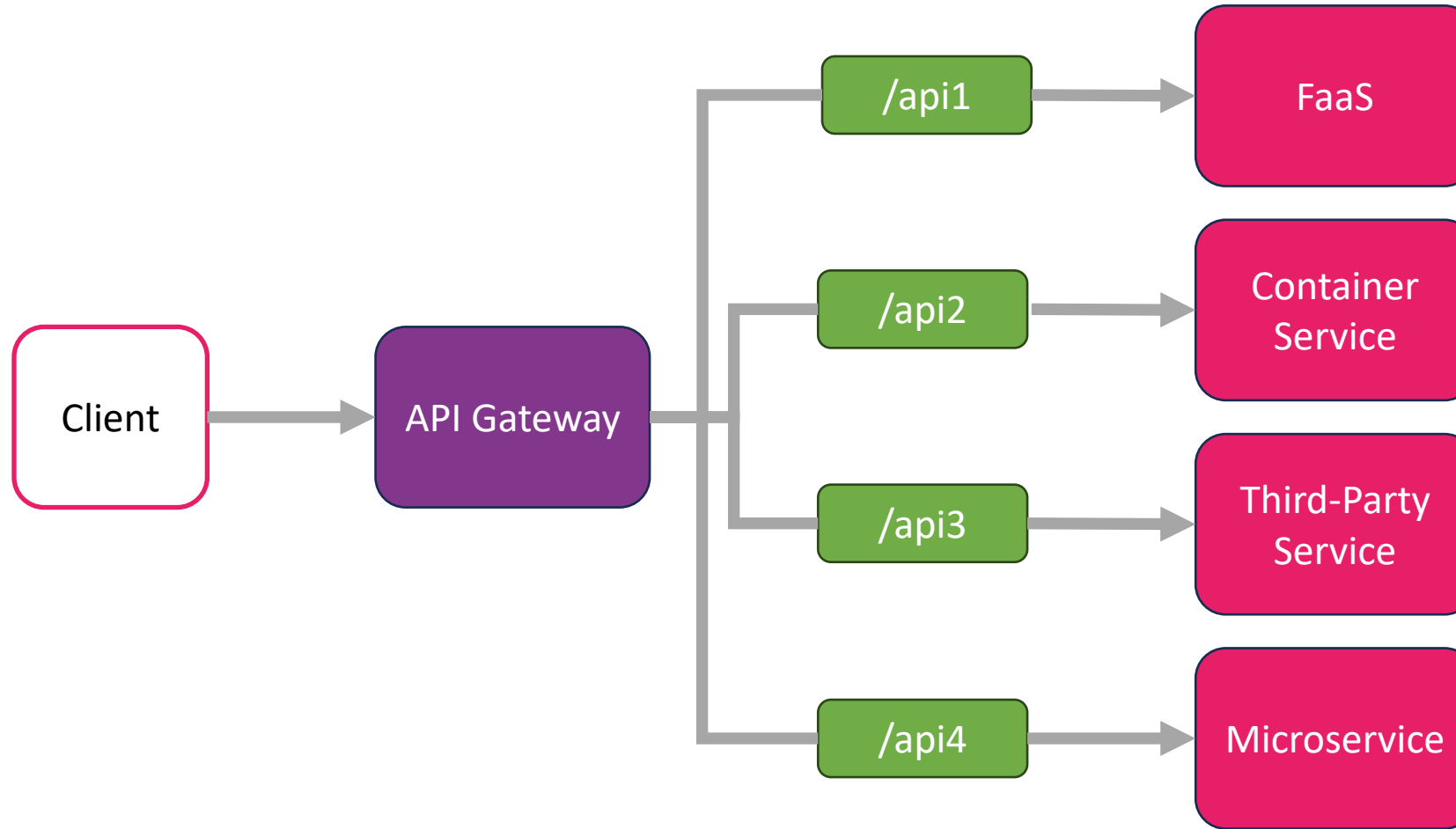
Serverless Design Patterns

Crack the Code to Scalability

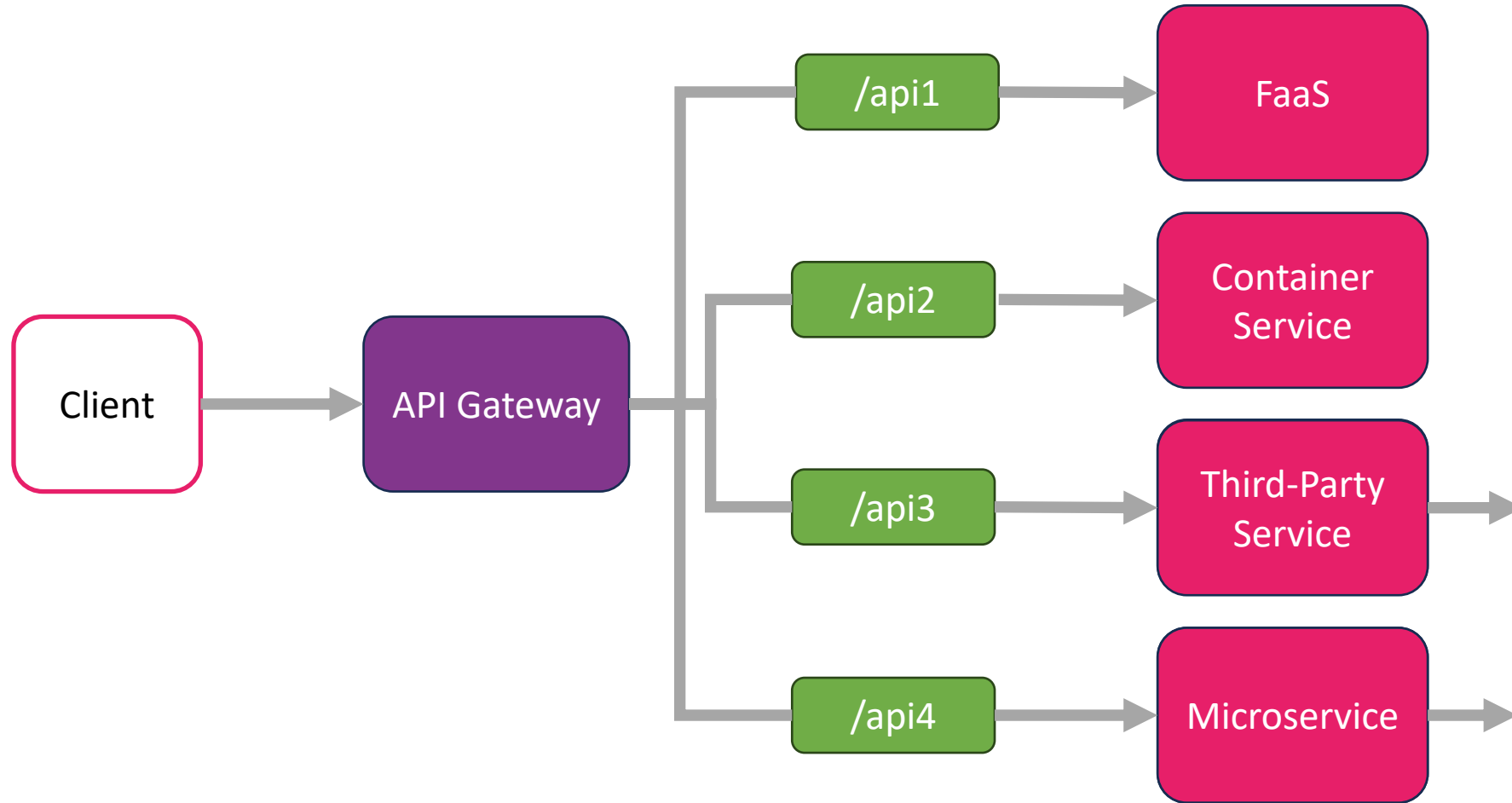
Simple Web Service



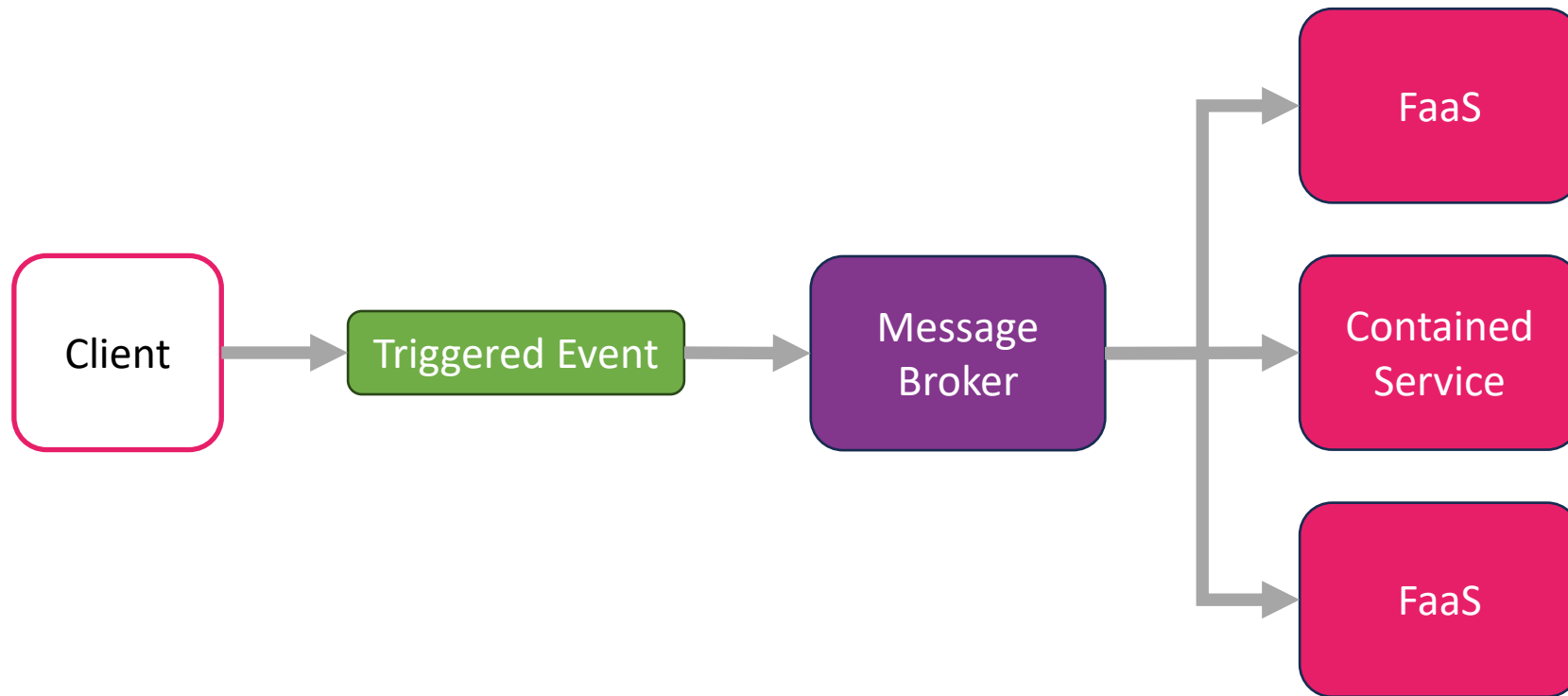
Robust API



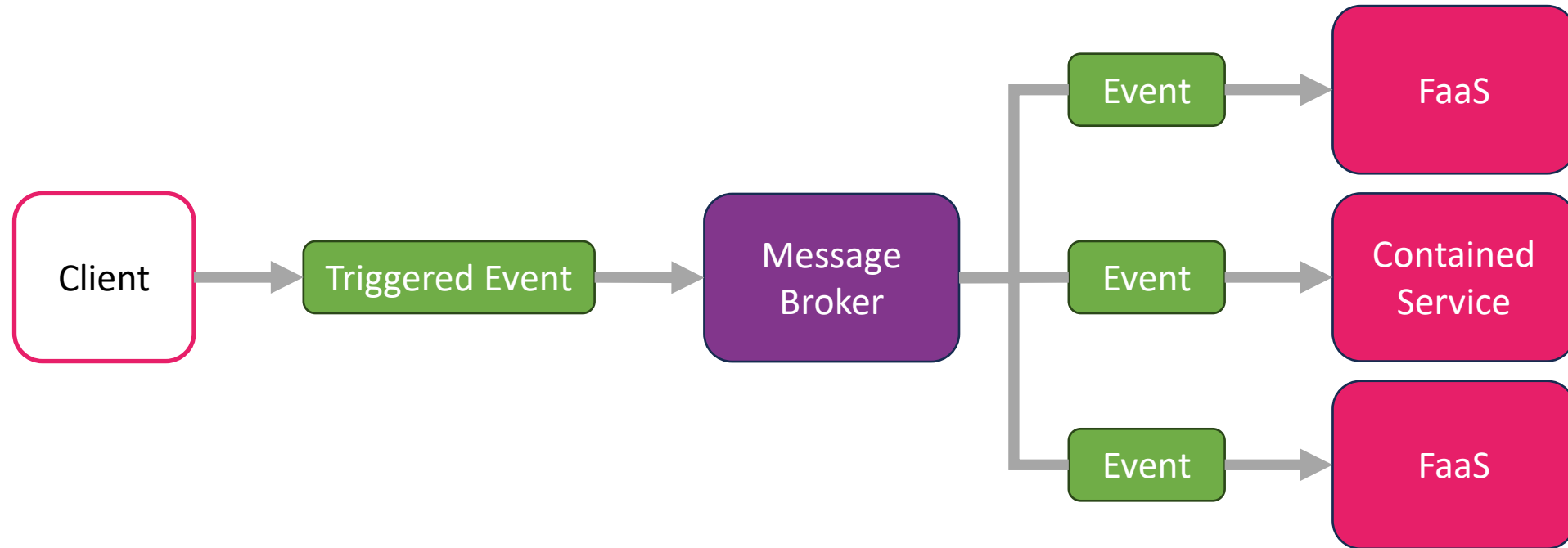
Robust API with Aggregation



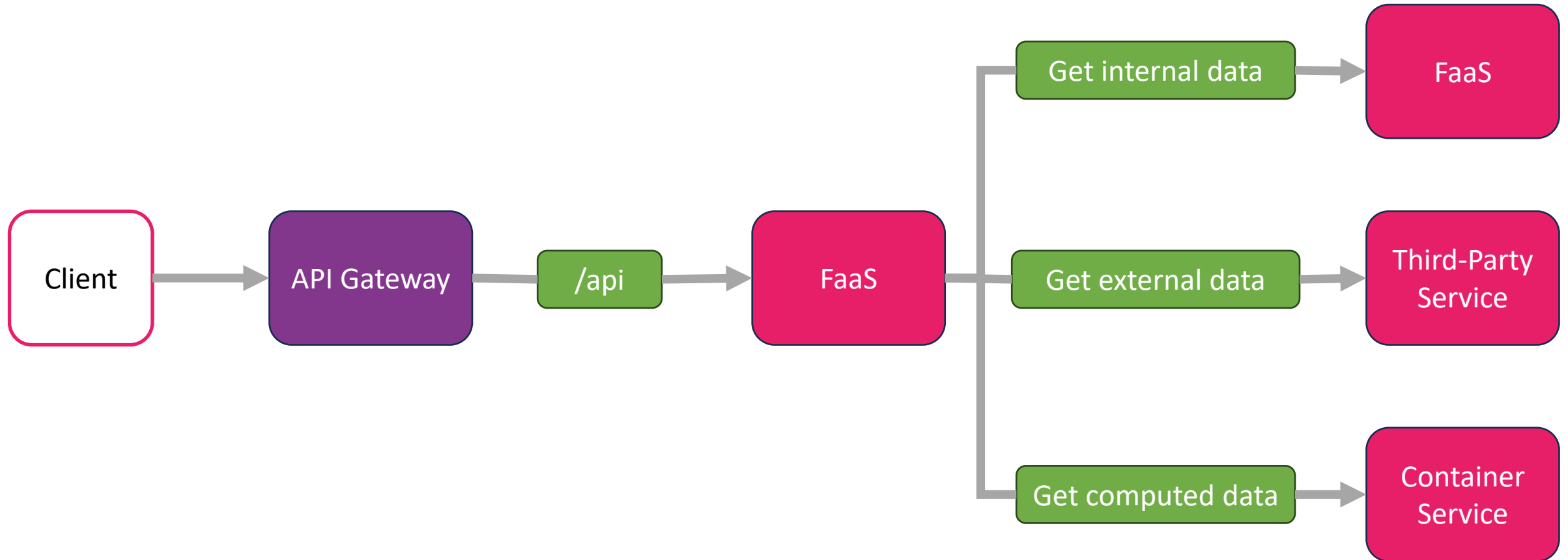
Decoupled Messaging



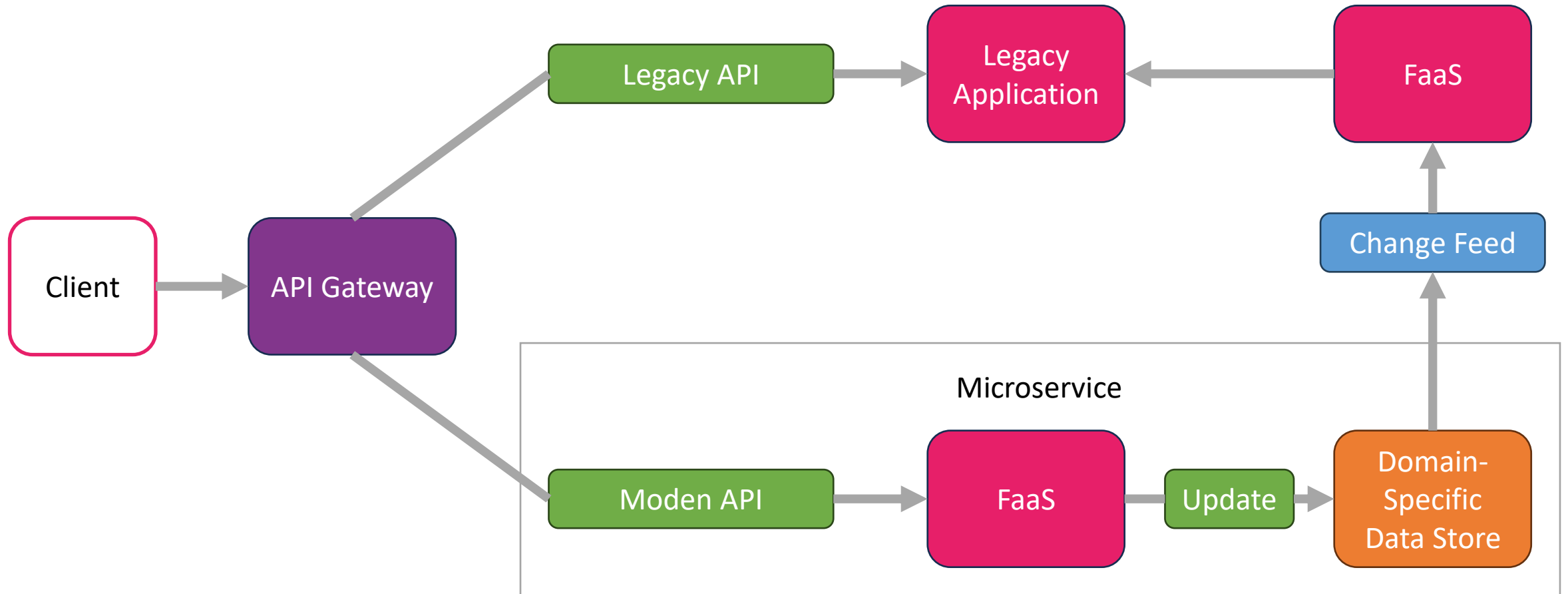
Publish/Subscribe



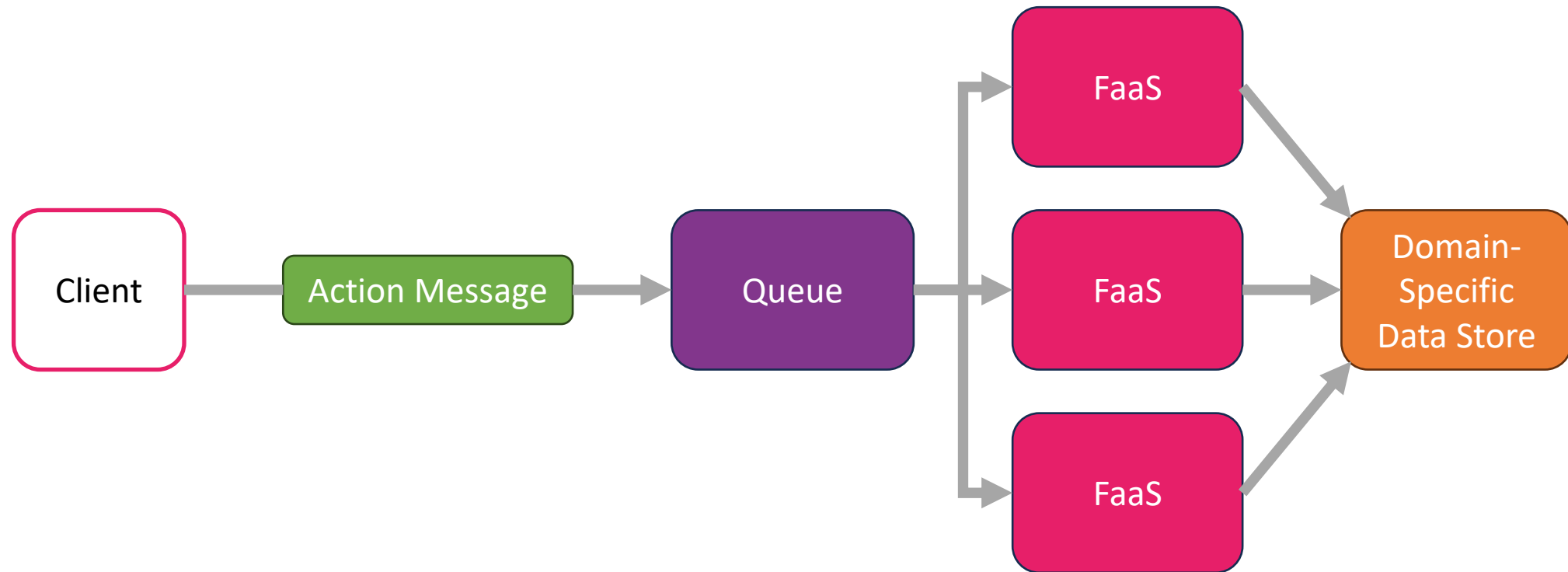
Aggregation



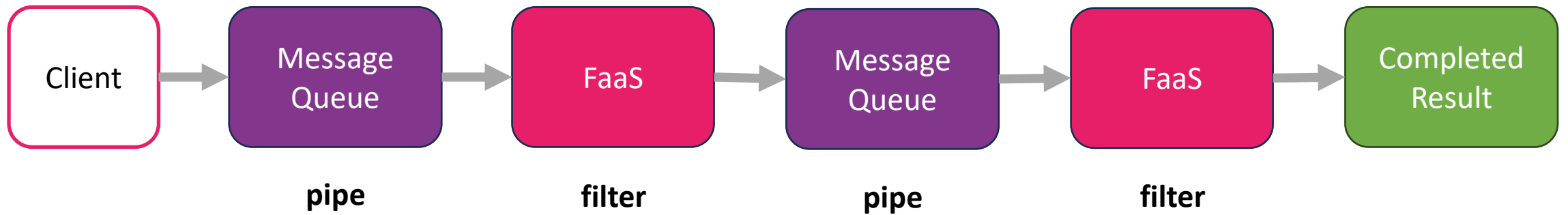
Strangler



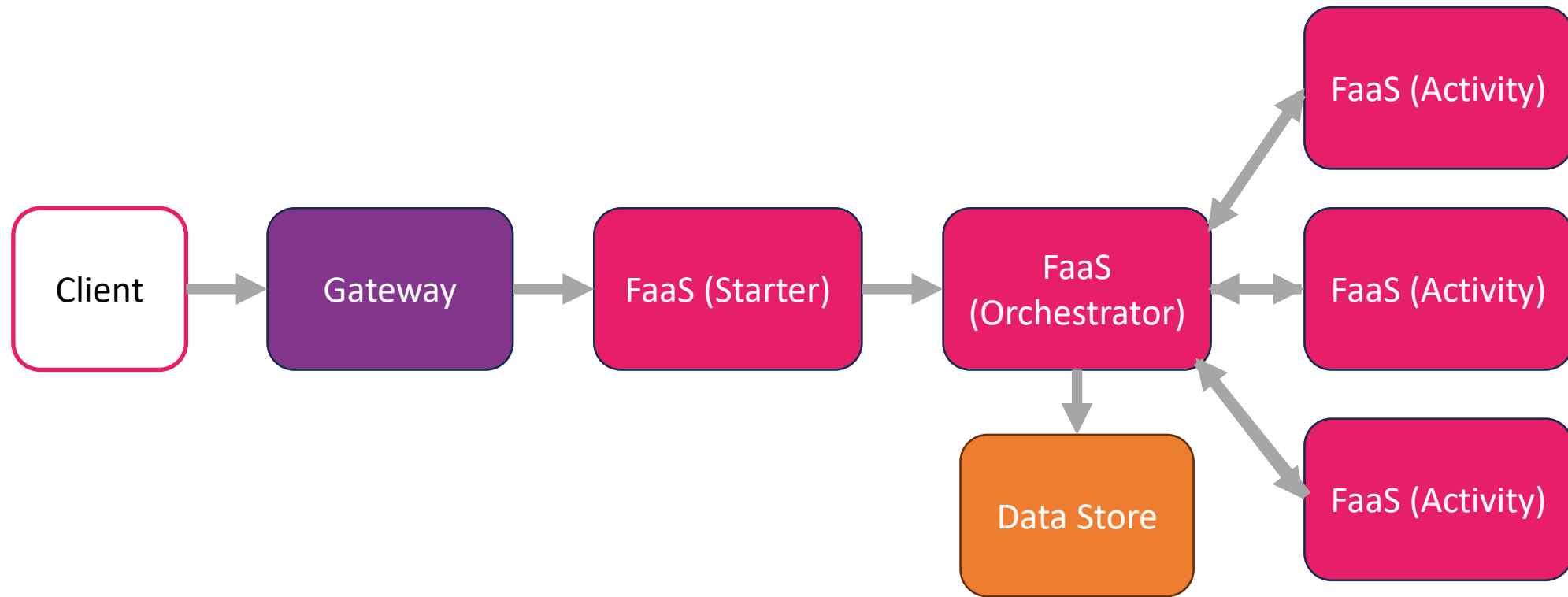
Queue-Based Load Leveling



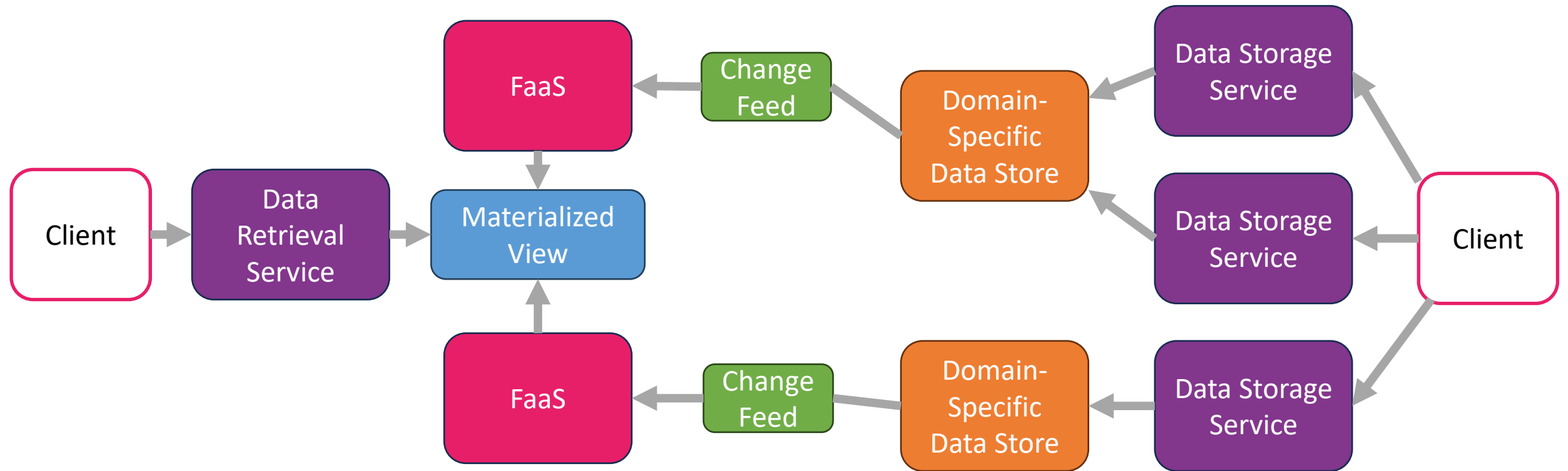
Pipes and Filters



Fan-Out/Fan-In



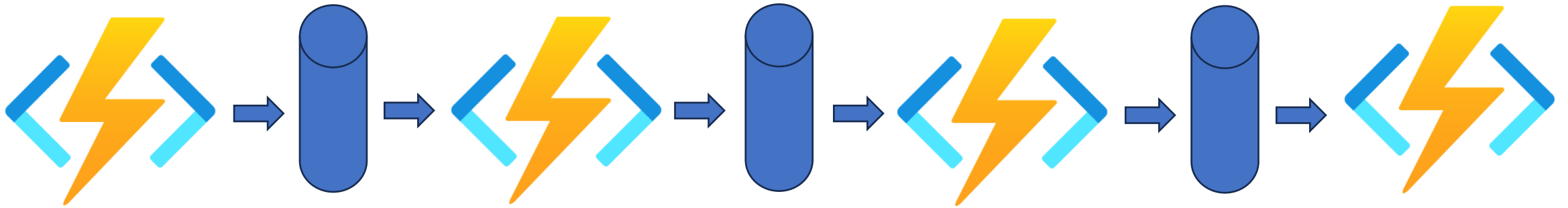
Materialized Views



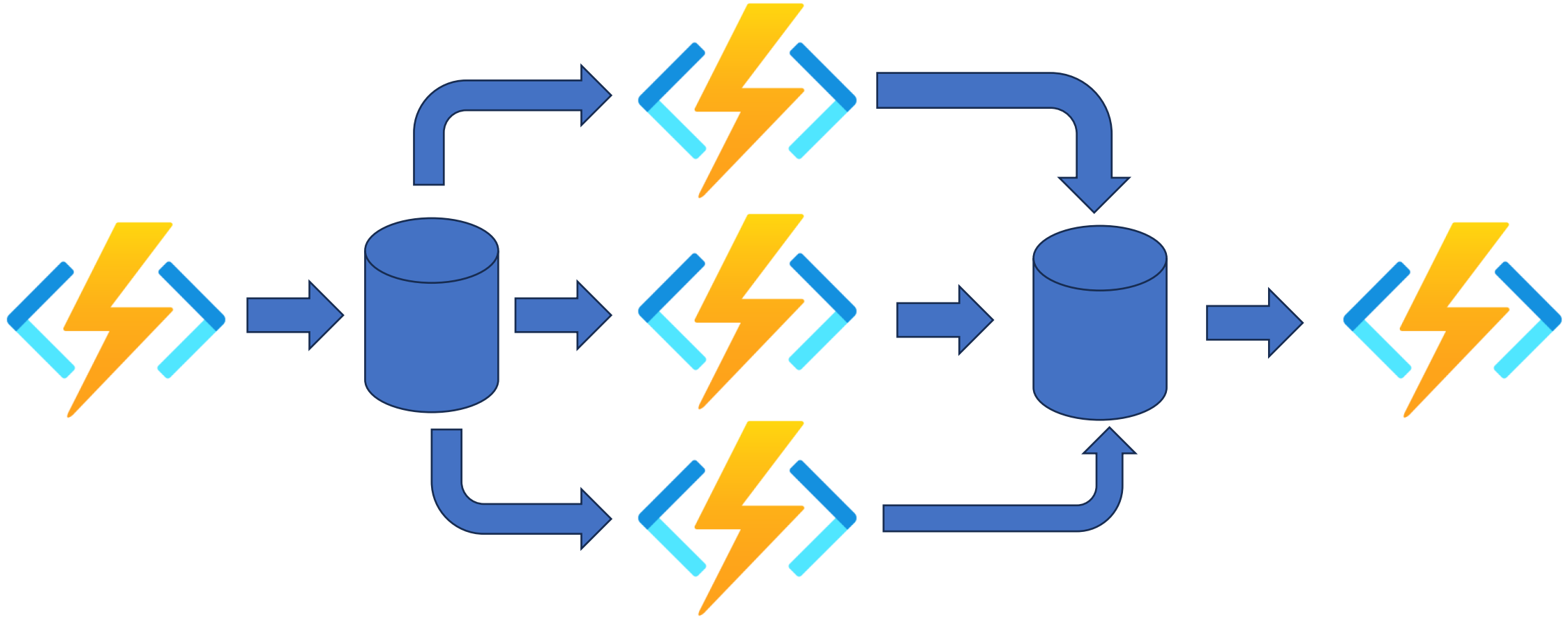
Orchestration

Crack the Code to Scalability

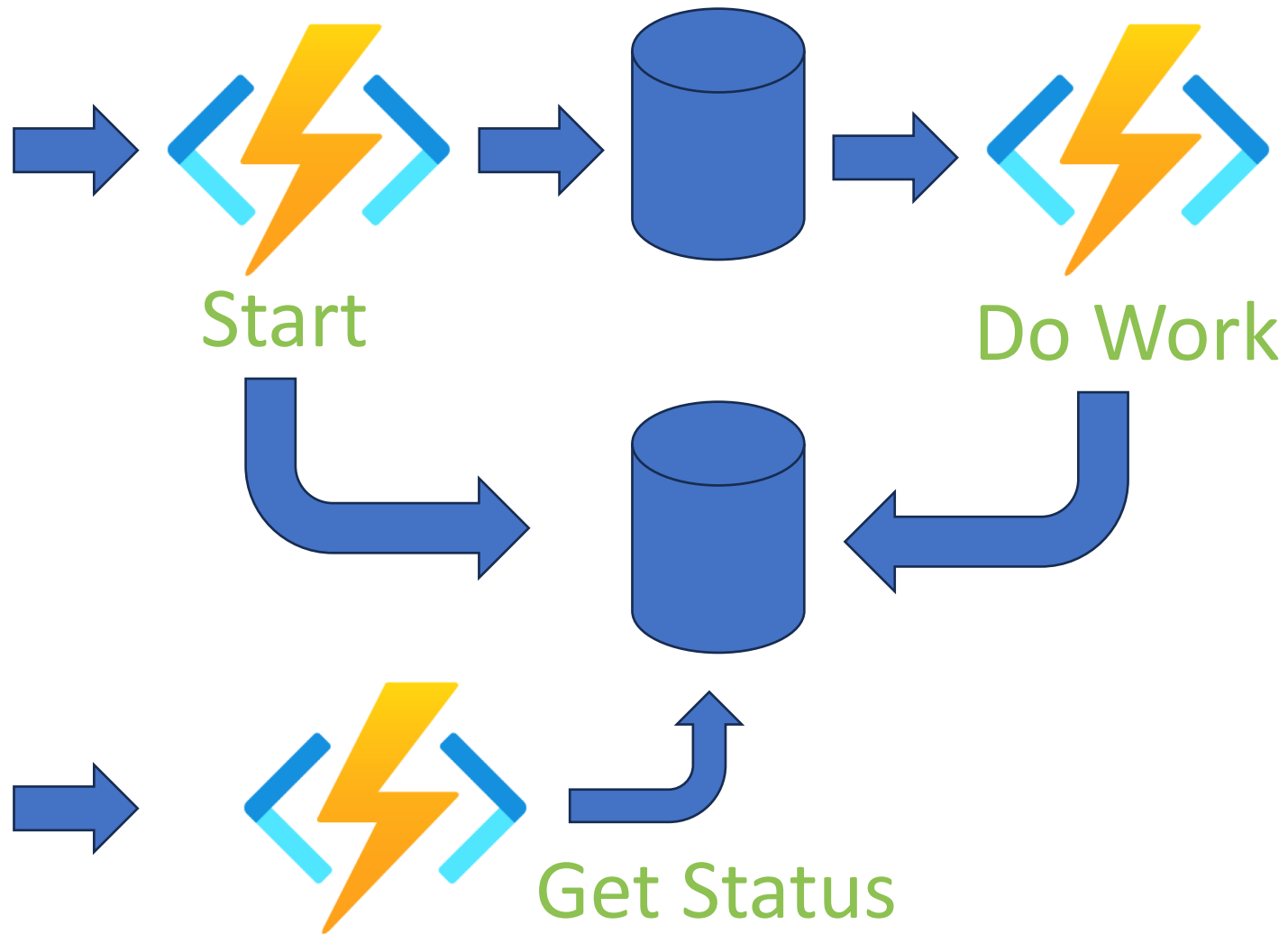
Function Chaining



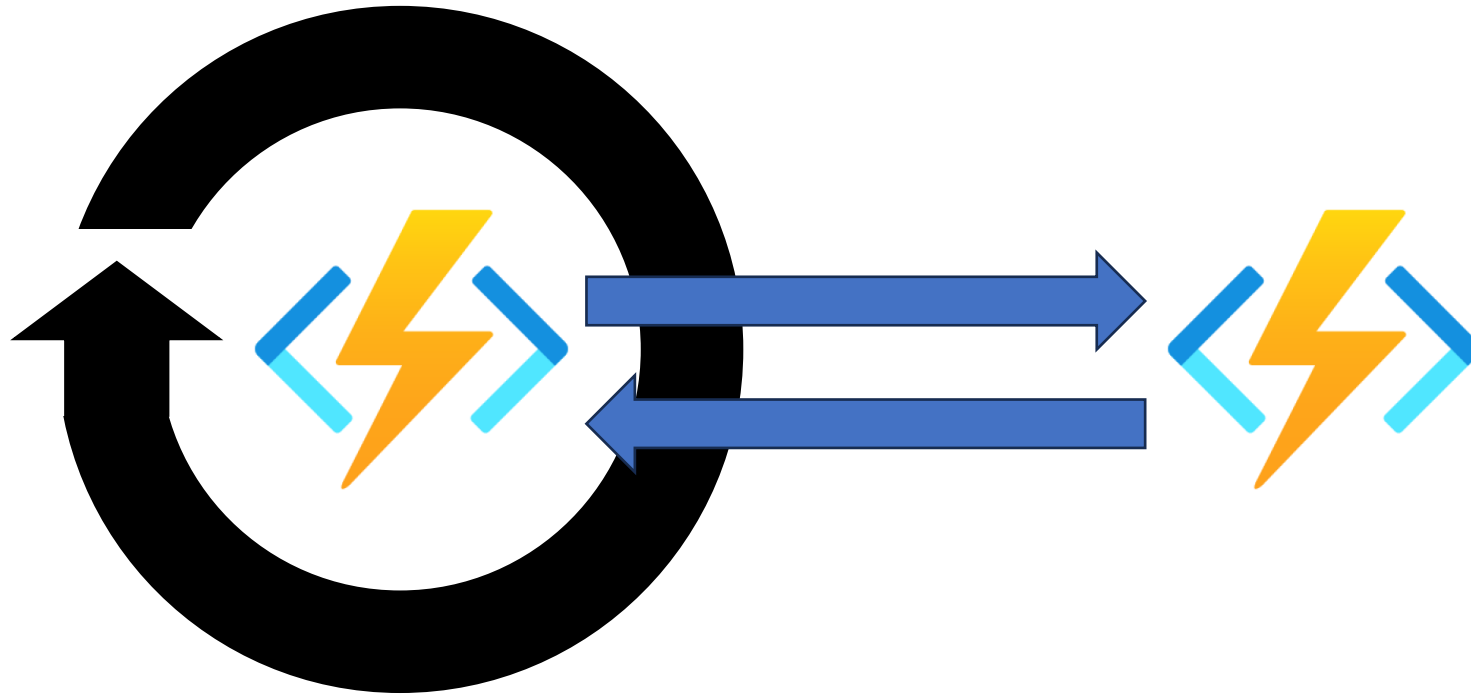
Fan Out / Fan In



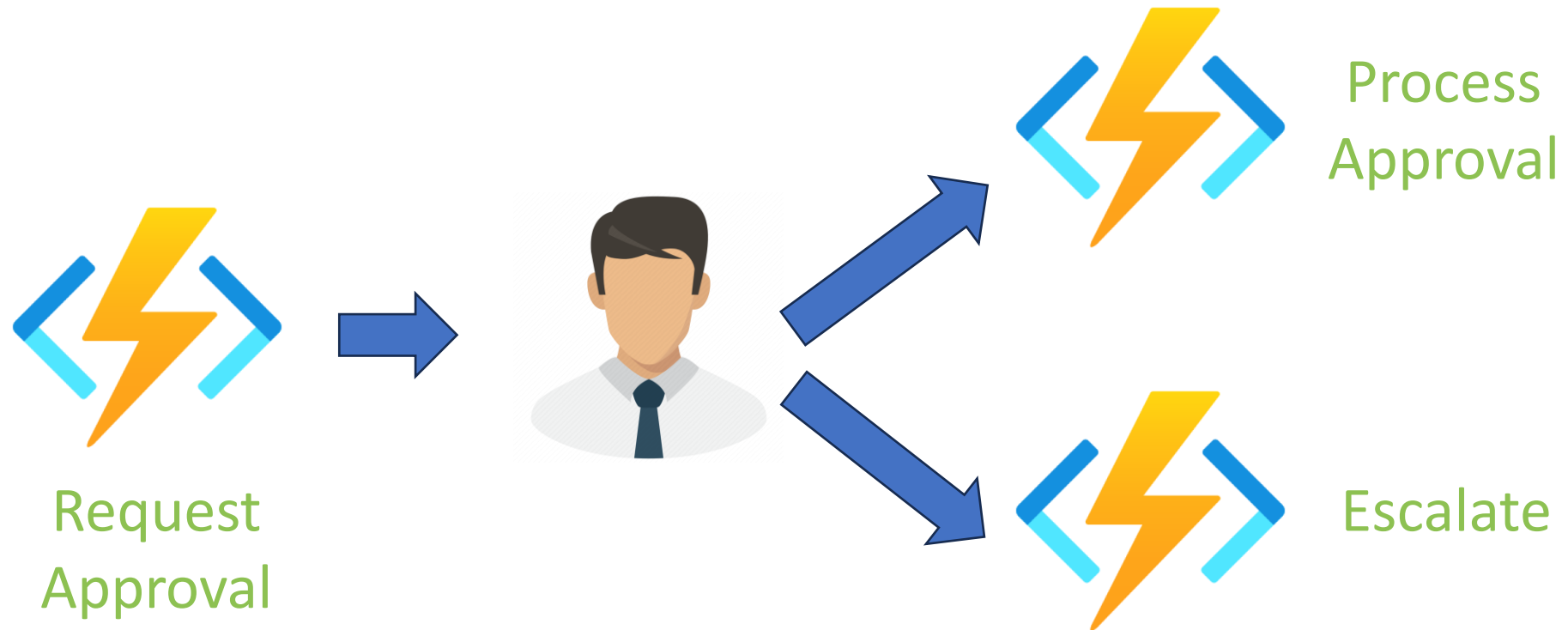
Async HTTP APIs



Monitor



Human Interaction



Serverless Best Practices

Crack the Code to Scalability

Serverless Best Practices

Stay Focused

Serverless Best Practices

Stay Focused

Handle Errors

Serverless Best Practices

Stay Focused

Handle Errors

Observe What's
Going On

Serverless Best Practices

Stay Focused

Handle Errors

Observe What's
Going On

Test, Test, and
Test Again

Serverless Best Practices

Stay Focused

Handle Errors

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Going On

Test, Test, and
Test Again

Optimize Costs

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Versioning and
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Versioning and
Deployment

Thank You



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ChadGreen



ChadwickEGreen

