Experts Live Norway

Serverless for Ops

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Platinum Sponsor 2019

Microsoft

Martin Ehrnst

- Height: below average
- Age: Around 30
- Beer or wine: both
- Interests: Cars, and alpine skiing
- Location: Oslo, Norway

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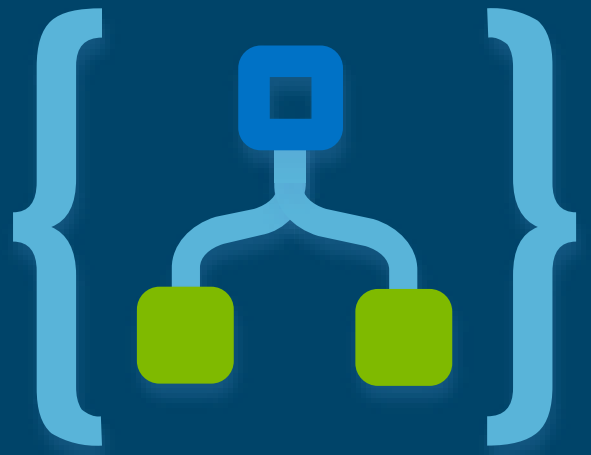
Serverless for Ops: Agenda

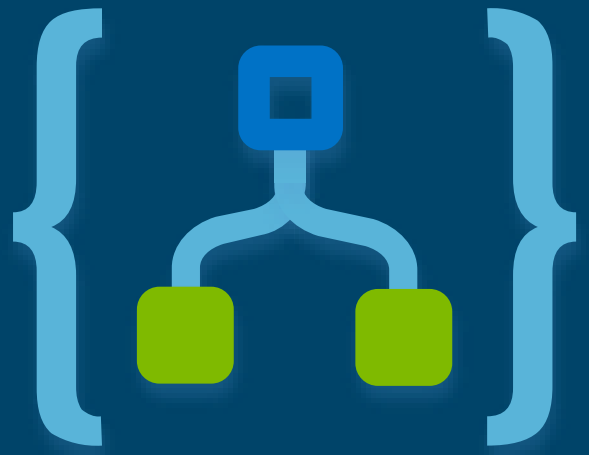
- Logic Apps
- Event driven architecture
- Azure Event Grid, huh?
- Azure Functions (quick) overview
- Demo

Logic Apps



Logic Apps

- Enterprise grade IFTTT
- Works cross clouds and on prem
- No code required
- 200+ built in connectors



Logic App Example

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Event driven architecture

Event driven architecture

- An event represents change in state
- Act on the state changes in “real time”
- Ideal for integration between multiple sub systems
- Highly scalable

Azure Event Grid, huh?

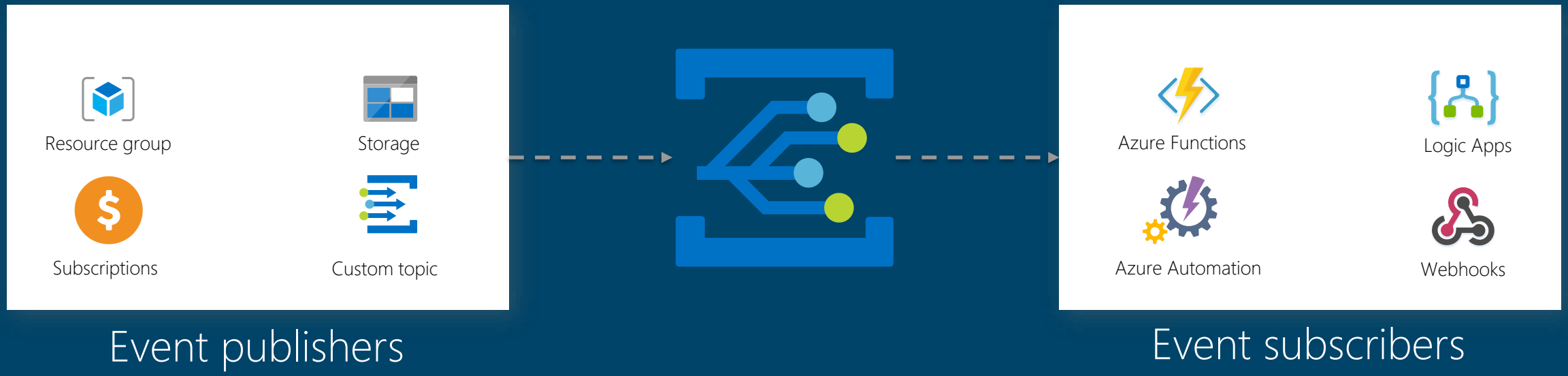
Azure Event Grid, huh?

- Fully managed service for event routing
- Uses a publish-subscribe model
  - Event publishers, event handlers
- Ideal for reactive scenarios

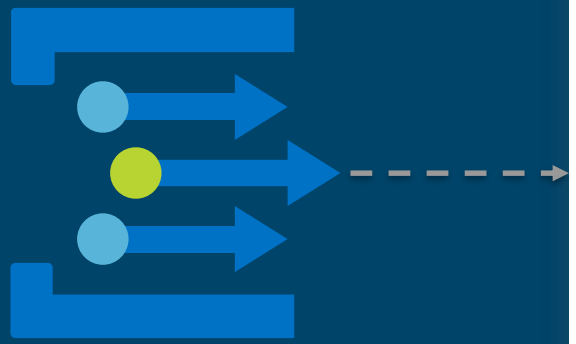
Five concepts of Event Grid

- **Events**: What happened
- **Source:** Where did it happen
- **Topics:** Where events are published
- **Subscriptions:** Event routing and filtering
- **Handlers:** your code/app reacting to the event

Event flow


Resource group
Storage
Subscriptions
Custom topic
Azure Functions
Logic Apps
Azure Automation
Webhooks
Event publishers
Event subscribers

Event subscription filters



Azure Functions

Logic Apps

Azure Automation

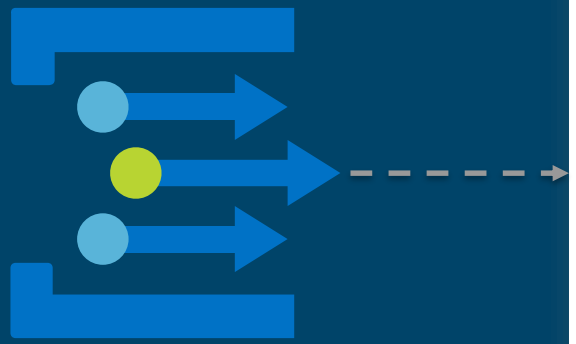
Webhooks

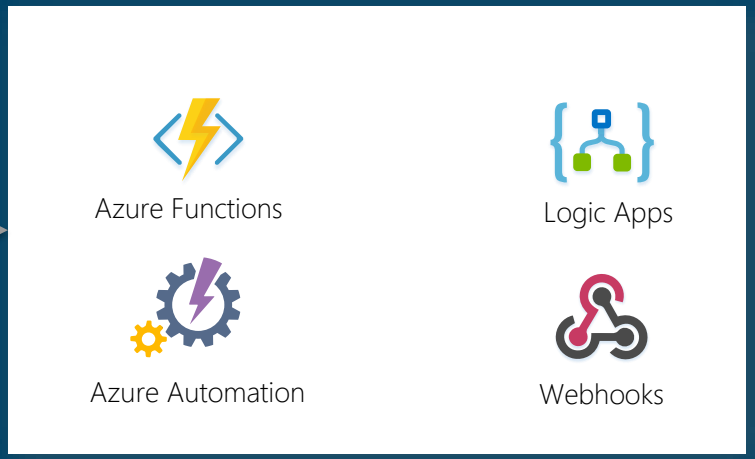
Event subscribers

- Event types
- Subject start and end
- Advanced fields and operators

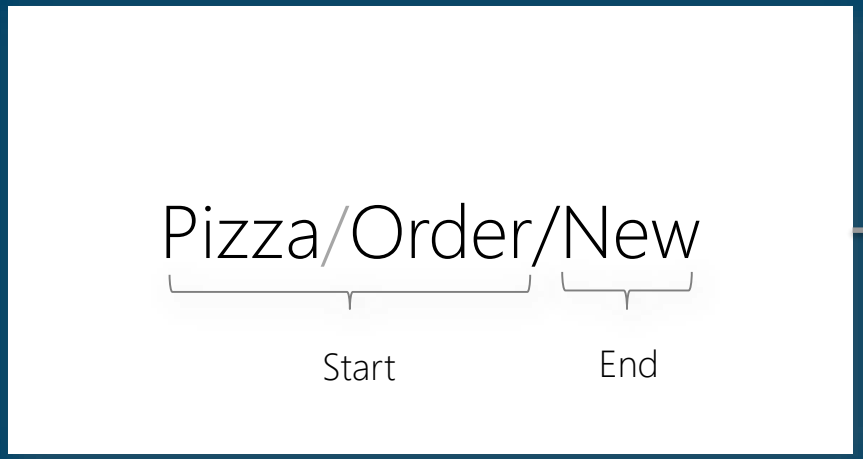
Subscription filters

Event subscription filters





Event subscribers



Example: subject filter

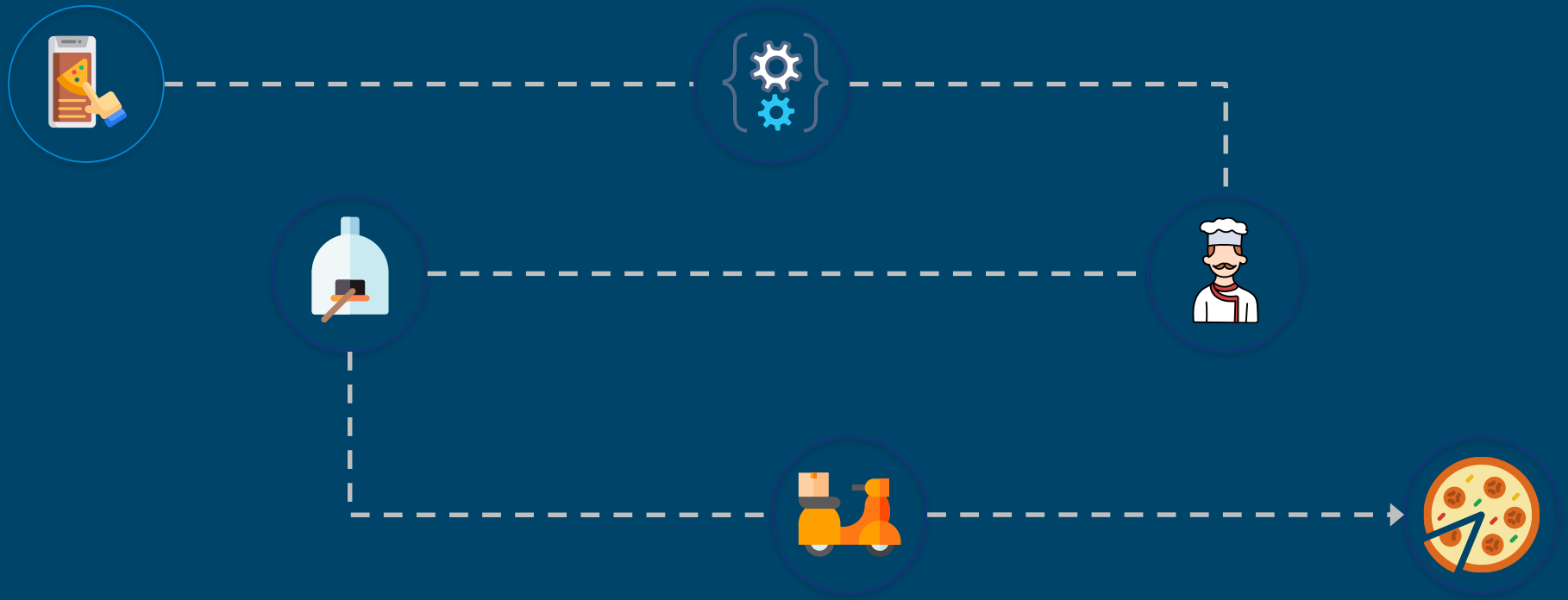
Azure Functions

Azure Functions overview

- Run small code pieces on demand or scheduled
- Supports many languages
  - C#, Node, Java, **PowerShell** ++
- Integrates easily with other Azure services

Building a serverless infrastructure

Scenario: Pizza ordering process



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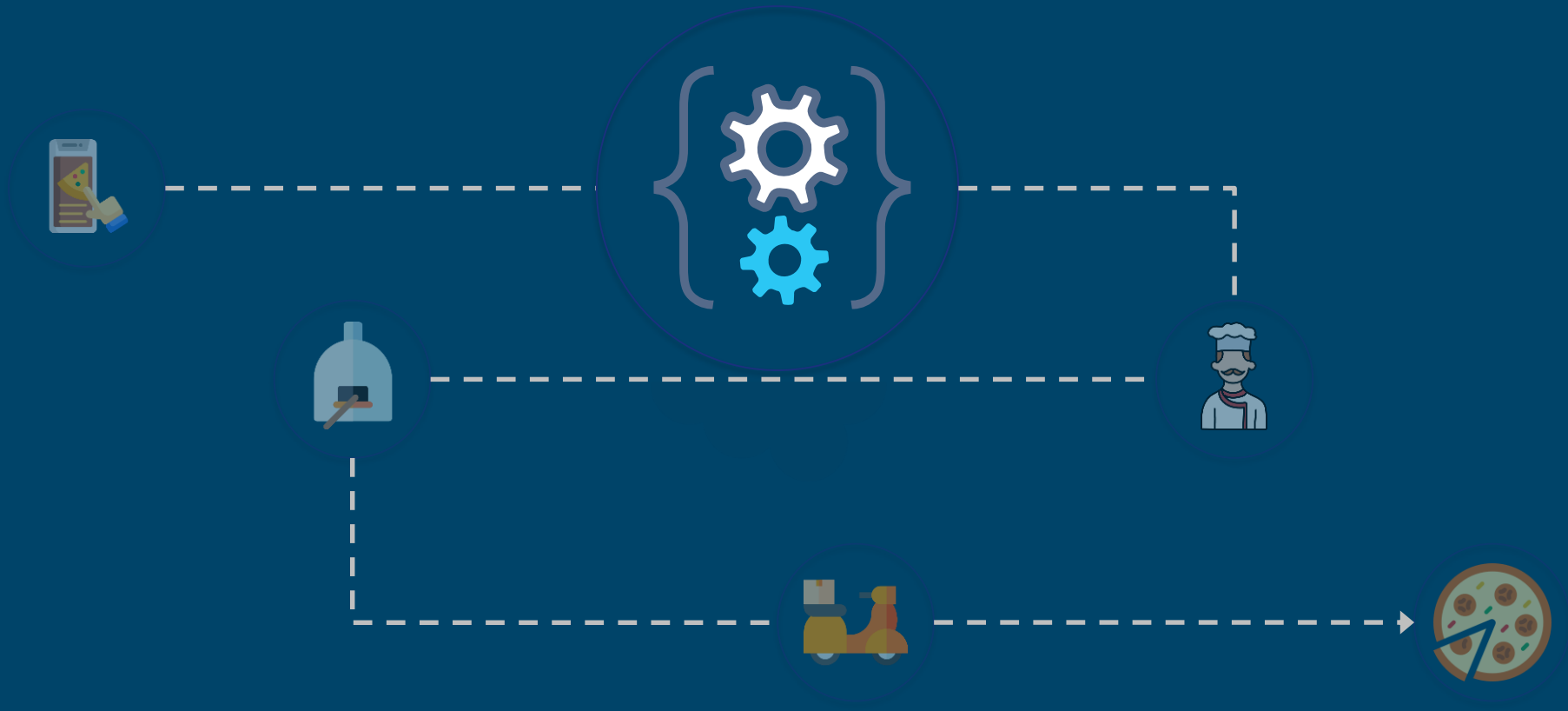

Demo

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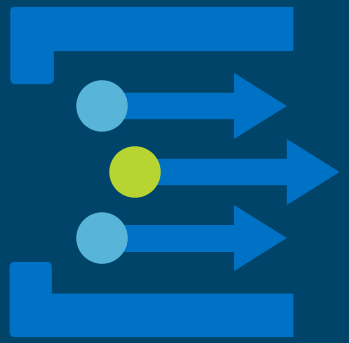
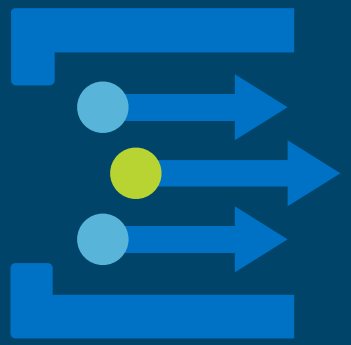
Demo summary



Pizza/Order/New

Start End

Demo summary



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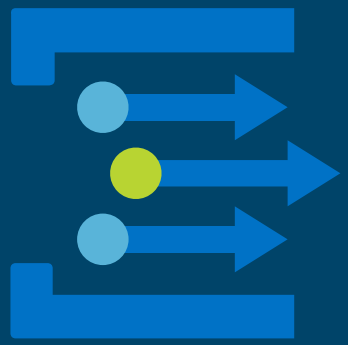

Demo

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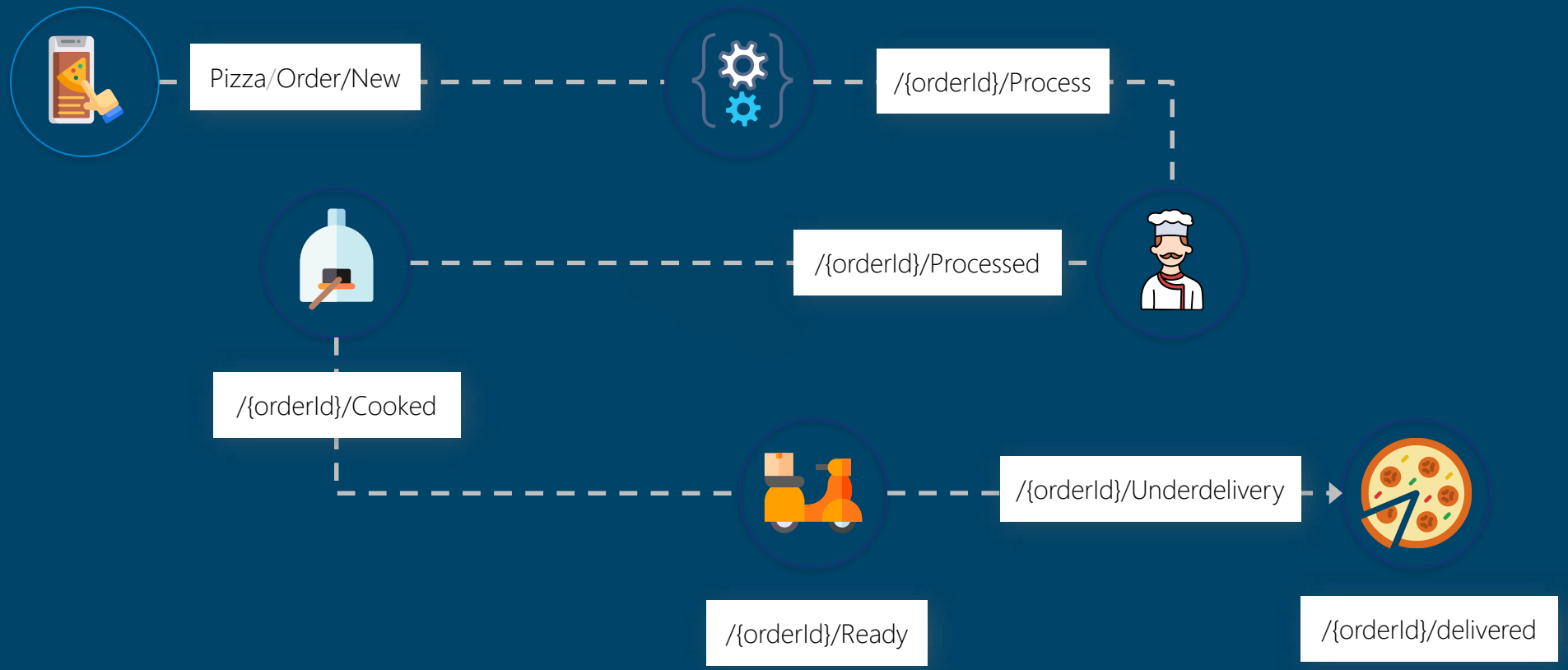
Scenario: Pizza ordering process



Takeaway!

- Serverless is for Ops!
- Event driven automation makes it easy to change small pieces of your process.
- Event Grid can act as a hub in the infrastructure.
- Think about your processes – can you can leverage serverless?

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Thank You!

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