

# How to Define and Document Microservice Contracts

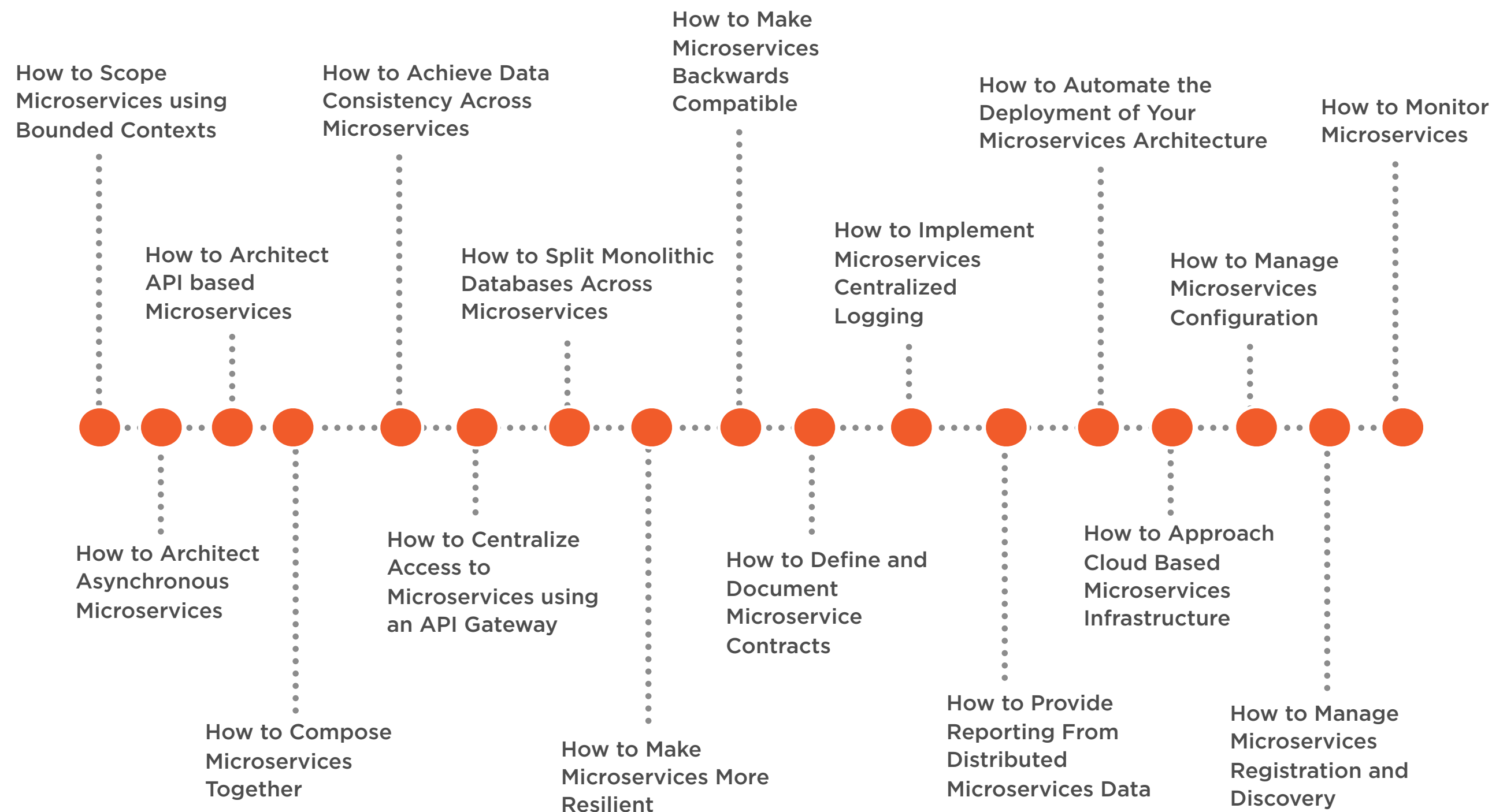
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# Microservices Architectural Design Patterns Playbook



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## Microservices Architecture

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# Overview

**Introduction**

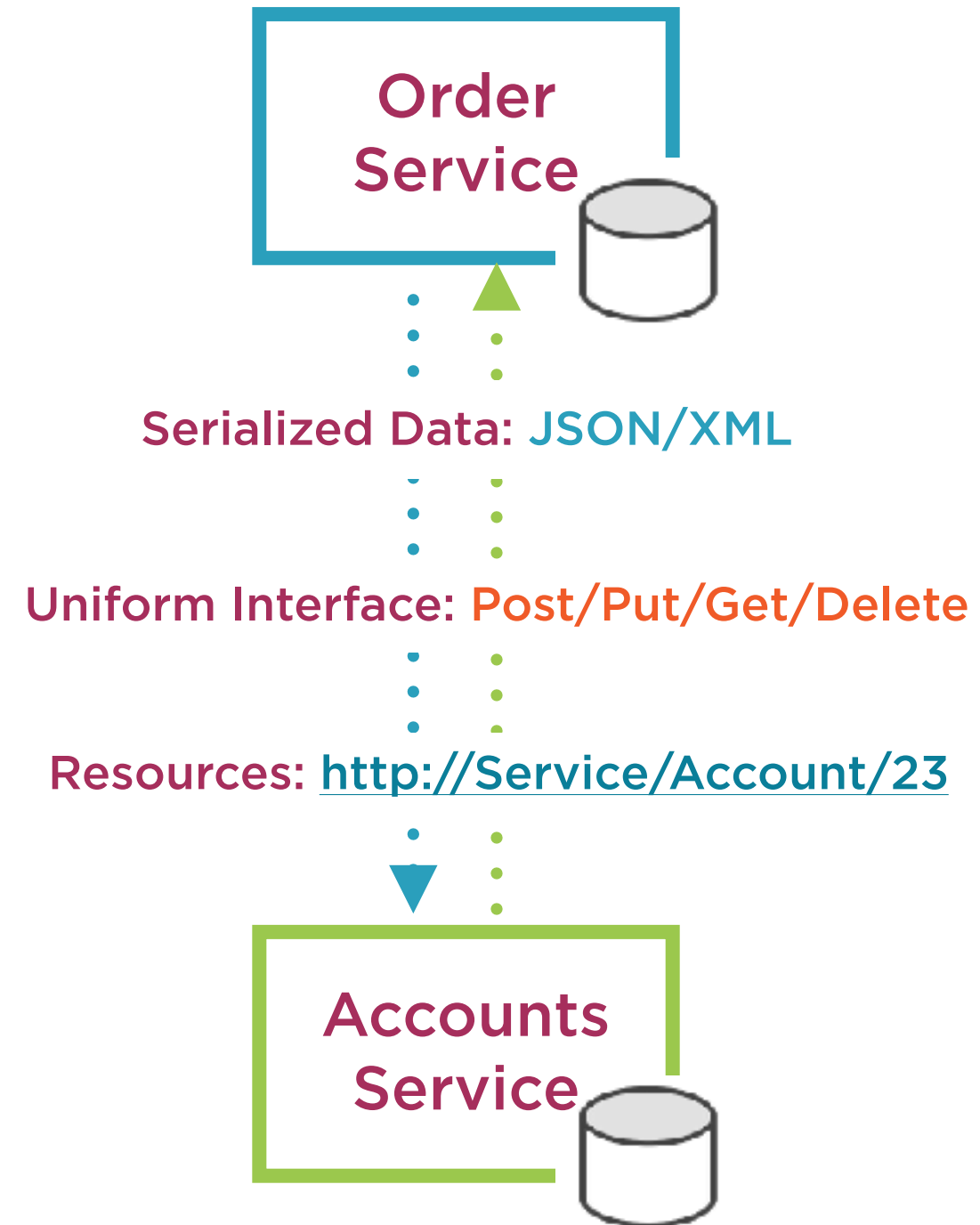
**Defining Microservice Contracts**

**Documenting Microservice Contracts**

# Introduction

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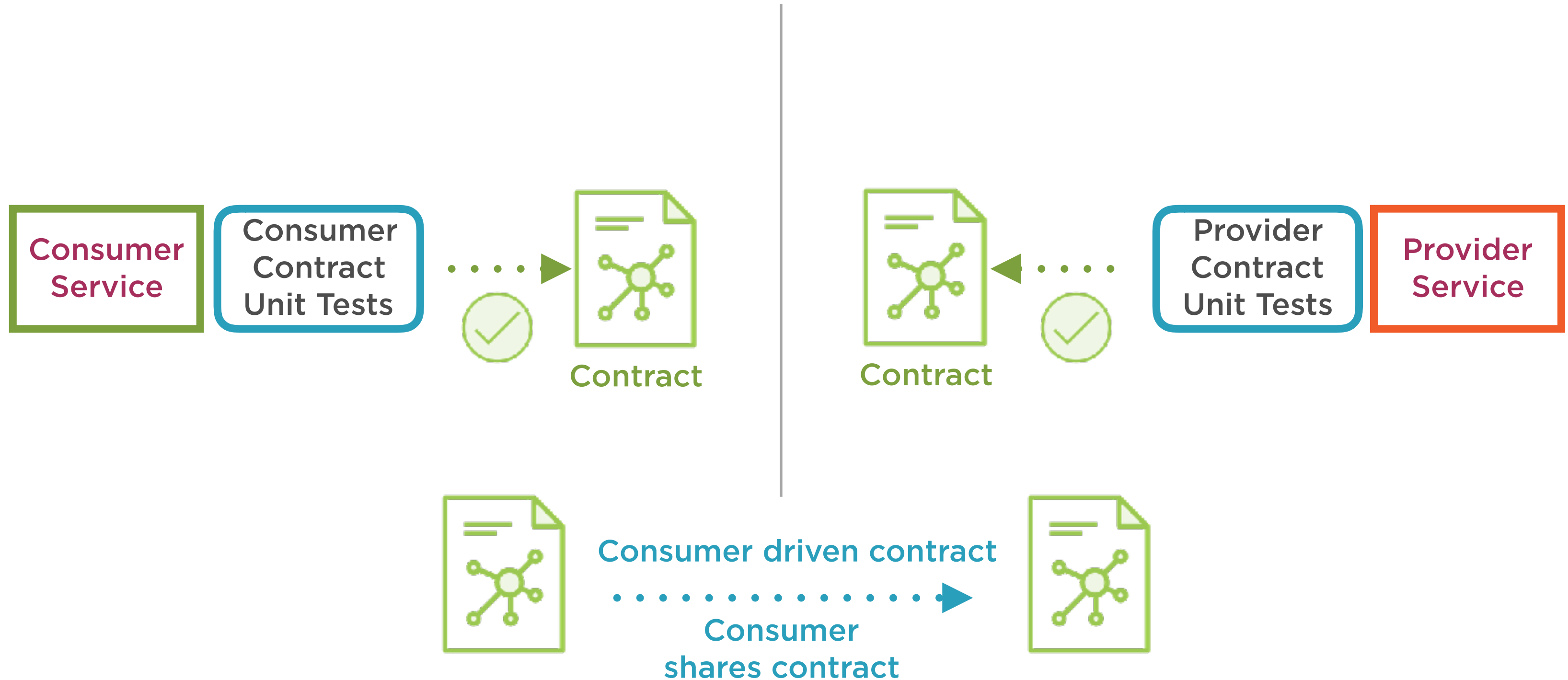
# Microservice Contract



# Defining Microservice Contracts

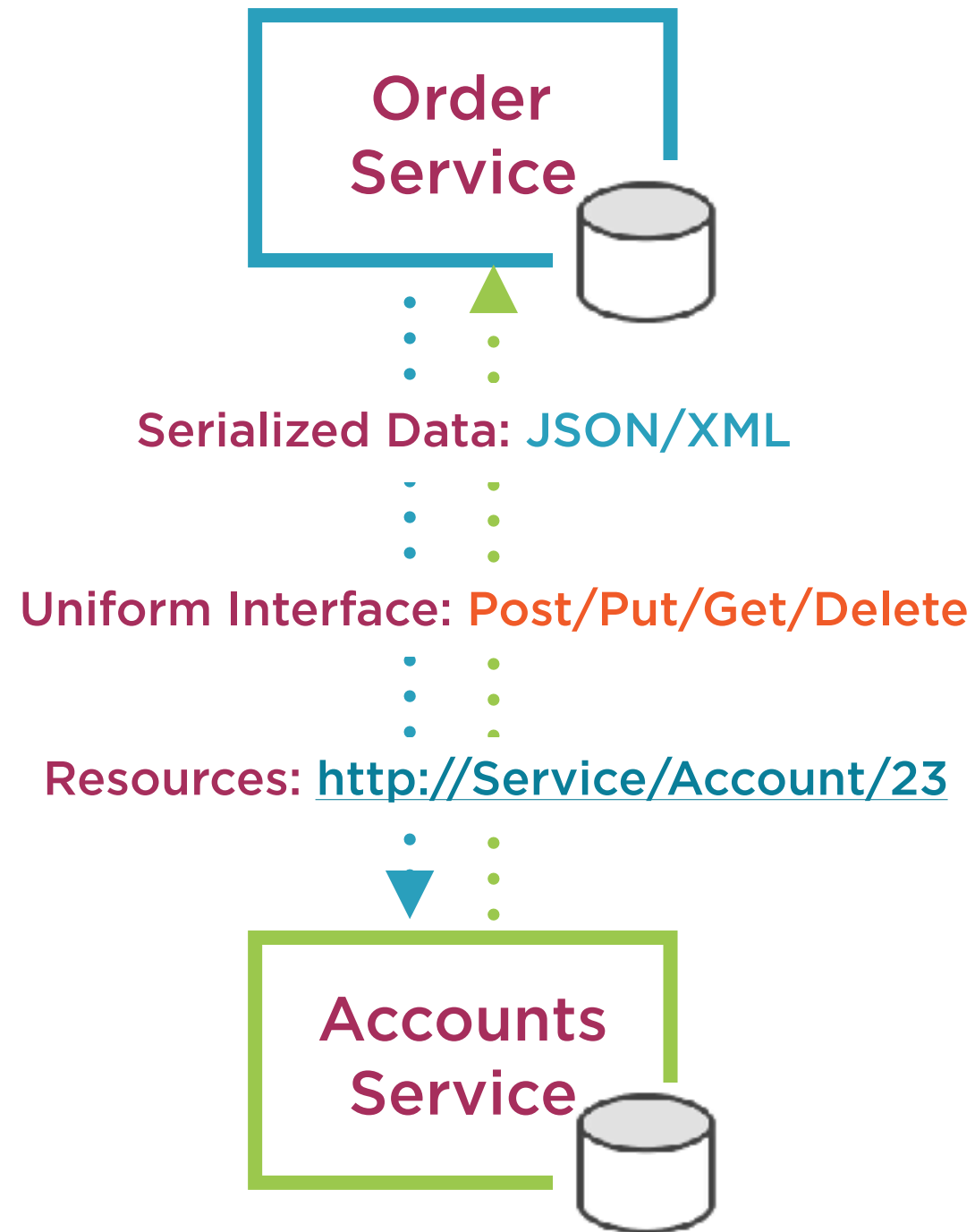
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# Consumer Driven Contract Design





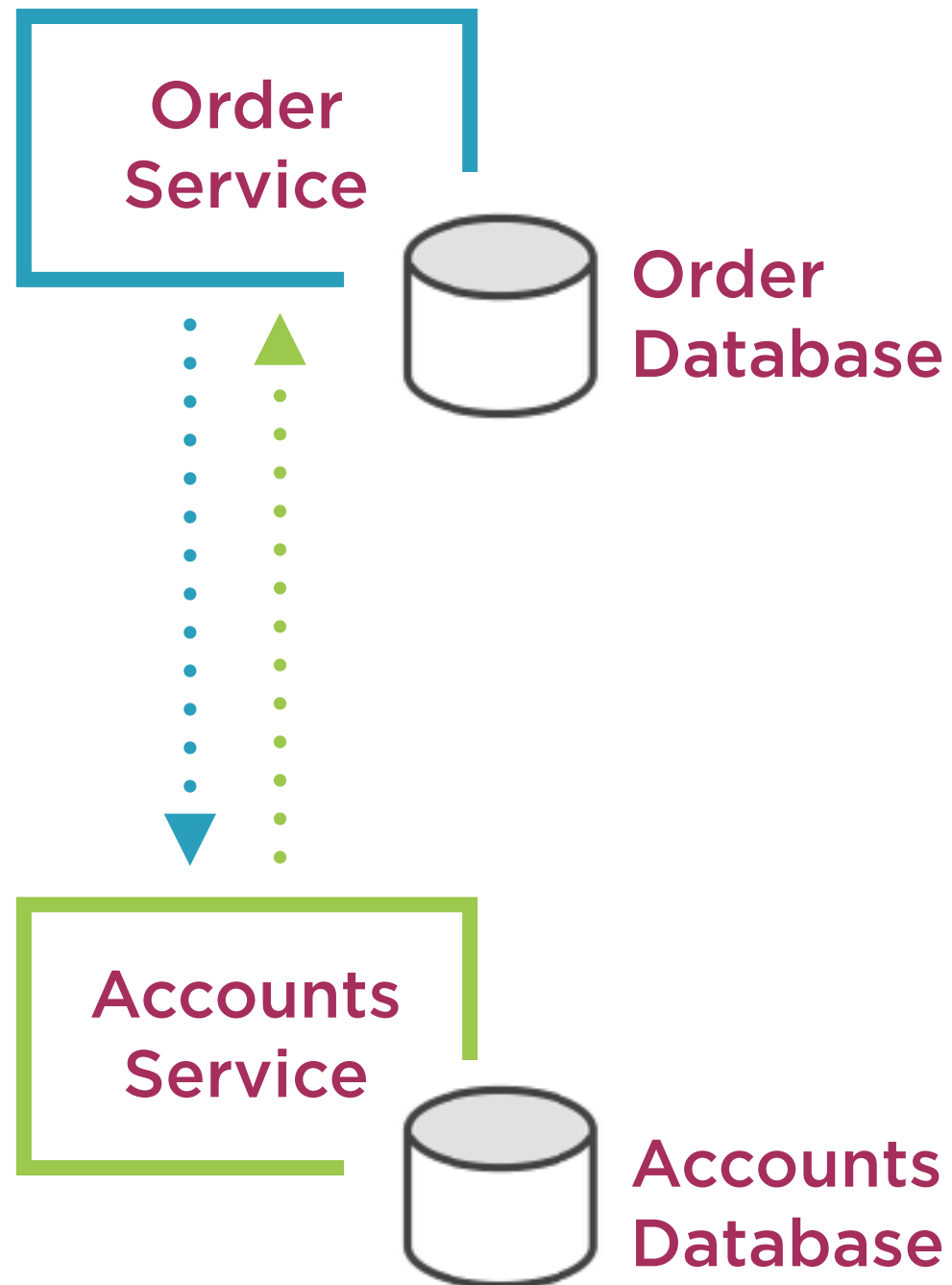
# Resource Based Microservice



## Restful microservice style

- **GET**
  - <https://myApi.net/v2/order/{order-id}>
- **POST**
  - <https://myApi.net/v2/order/>
- **PUT**
  - <https://myApi.net/v2/order/>
- **DELETE**
  - <https://myApi.net/v2/order/{order-id}>

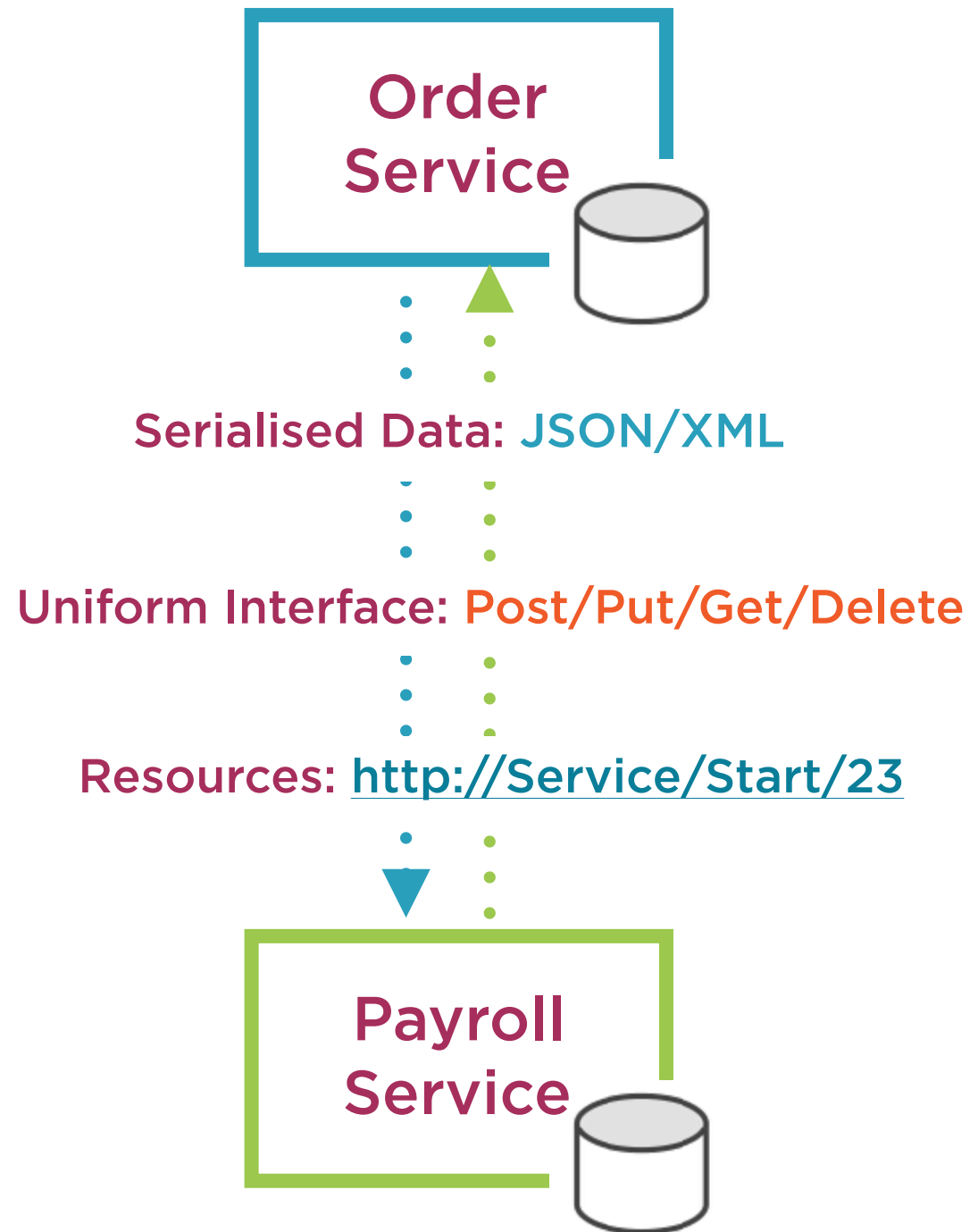
# Action Based Microservice



## Restful microservice style using actions

- **GET**
  - <https://myApi.net/calctimesheet/{id}>
- **GET**
  - <https://myApi.net/taxemployee/{id}>
- **GET**
  - <https://myApi.net/startenrollment/{id}>
- **GET**
  - <https://myApi.net/startpayroll/{date}>

# Task Based Microservice



## Restful microservice style using tasks

- **POST** to start task
  - <https://myPayrollApi.net/start/{id}>
- **GET** to retrieve task status
  - <https://myPayrollApi.net/task/{task-id}>
- **DELETE** to cancel task
  - <https://myPayrollApi.net/task/{task-id}>

# Documenting Microservice Contracts

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# Interface Definition Languages



## **Way to document microservice contracts**

- Before or after implementation

## **Platform and language independent**

## **Computer readable format**

## **Supporting tools provide extra functionality**

- Generate mock APIs
- Code generators for client and or service
- Validate client requests and server responses
- Generate documentation
- Tools that produce websites to call your API
- Generate test suites for your API endpoints

# Summary

**Introduction**

**Defining Microservice Contracts**

**Documenting Microservice Contracts**

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