Updating the Database with Zero-downtime

Marcel de Vries
CTO

@marcelv https://fluentbytes.com

Outline

Zero-downtime and the database

Playbook for database changes

Summary

Zero-downtime and the Database

Your Microservice needs a database schema update

You don't want down-time

How do you achieve this?

- Based on practice
- You need a service that understands multiple schemas
- You need a mechanism to switch

Playbook for Database Changes

Create binary that supports V1 and V2 of schema

Deploy to cluster

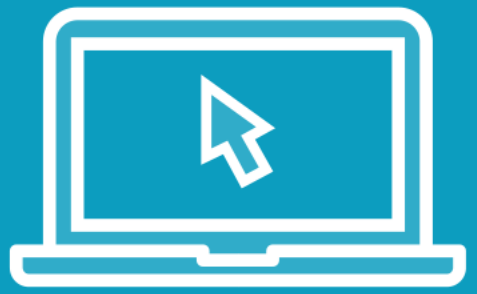
Update the Schema & Upgrade of data

Create version that supports only V2

Deploy to cluster

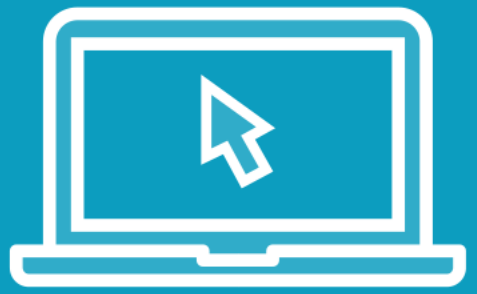
Remove old schema

Demo



Preparing a Zero-downtime Deployment with a Database Change

Demo



Executing a Zero-downtime Deployment with a Database Change

Summary

Zero-downtime and the database

Playbook for database changes