

Leading Automotive OEM

Achieves Real-Time Monitoring with Zero Latency



BACKGROUND



Leading Korean automotive OEM



Connected Vehicle program required a **highly available and performant microservices architecture (MSA)**



Software Engineers leveraged to complete task

REQUIREMENTS

- ! **Zero latency** or downtime
- ! **Minimal Operational overhead costs**
- ! Organizational mandate requires **commercially supported software** in production environments

INITIAL ACTIONS & RESULTS

A commercially supported Kafka version was initially selected & several challenges persisted:

- Operational Overhead was too high due to the costs** of commercial support combined with resource provisioning inaccuracies
- Kafka complexity required extensive training** for the Software Engineers to utilize the commercially supported Kafka version resulting in an unacceptable time to develop of new features & a low level of engineer interest due to Kafka complexity

NEW CAPABILITIES

- ✓ **Kafka self-management** & engagement capabilities
- ✓ **Partition distribution monitoring** among brokers
- ✓ **Standardized Kafka architecture** tailored to connected vehicle needs
- ✓ **Change Data Capture (CDC) database** & live migration support

FINAL OUTCOMES



50%

Lower Total Cost of Ownership



FULLY ENGAGED

More Efficient & Happier Software Engineers



ZERO DOWNTIME

During & After Migration