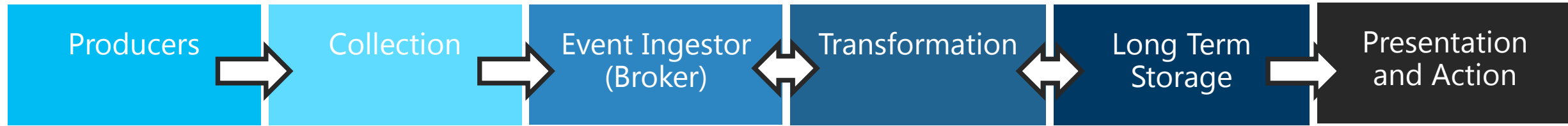


# DATA INGESTION WITH EVENT HUB

Phuc Duong

# Typical Event Processing



Applications



Cloud Gateways  
(WebAPIs)



Scalable  
Event Broker



External  
Data Sources



Web/Thick  
Client Dashboards



Devices



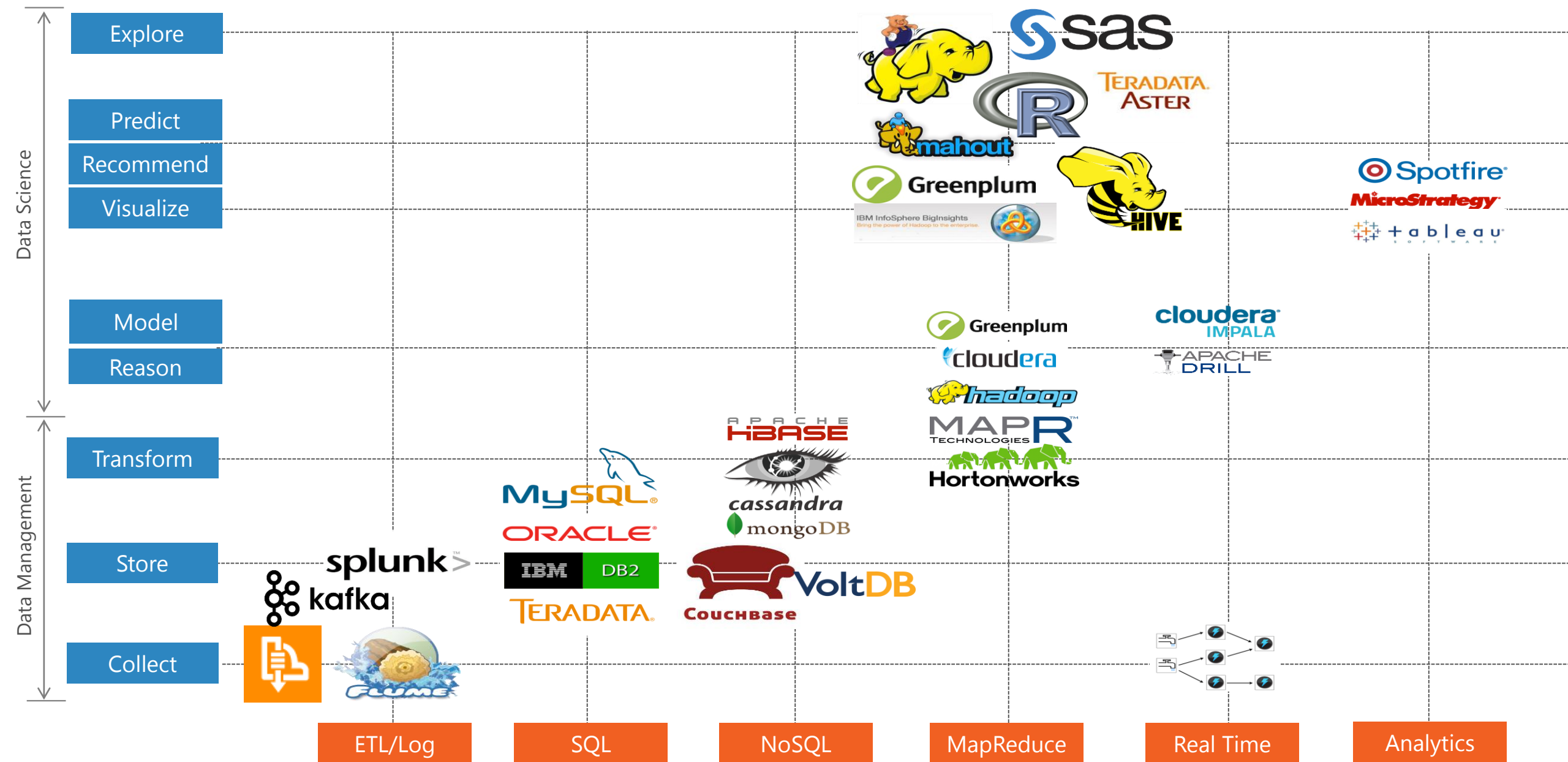
Field Gateways



Search and Query



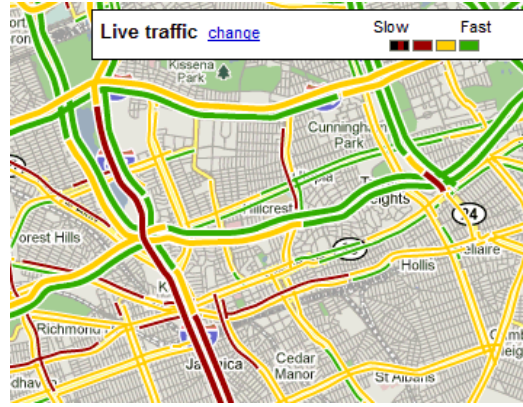
Data Analytics



# Hypothetical Scenario



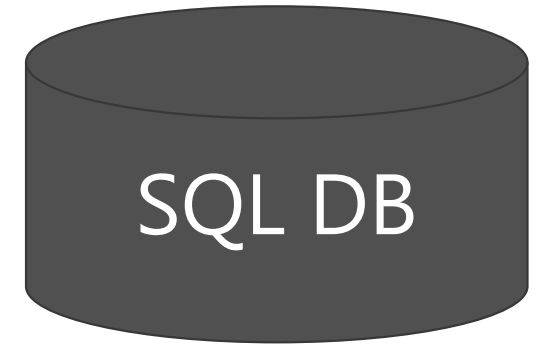
Bureau of  
Transportation  
Statistics



Sends Traffic Data



Server: ABC, Port 123

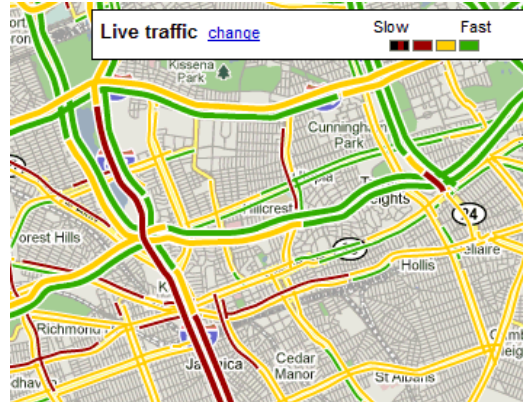


Your Company

# Things Change



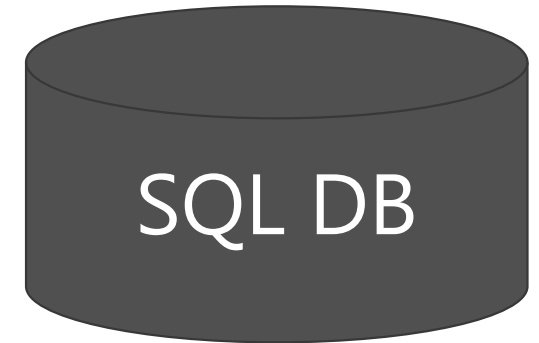
Bureau of  
Transportation  
Statistics



Sends Traffic Data



**WAS** Server: ABC, Port 123  
**Now** Server: DEF, Port 456

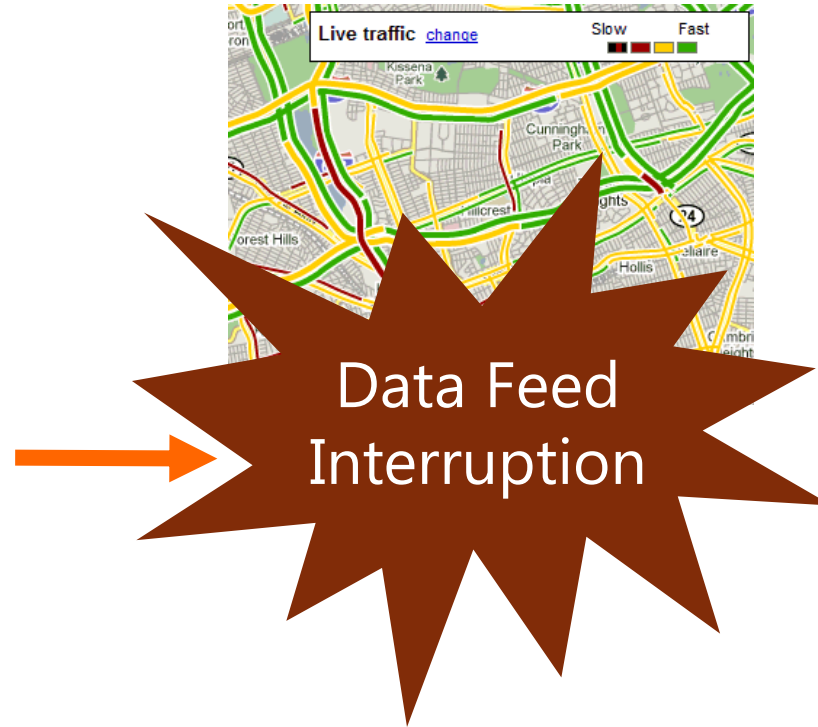


Your Company

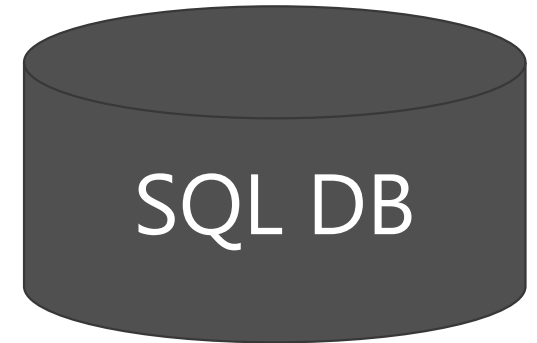
# Interruption Occurs



Bureau of  
Transportation  
Statistics



**WAS** Server: ABC, Port 123  
**Now** Server: DEF, Port 456



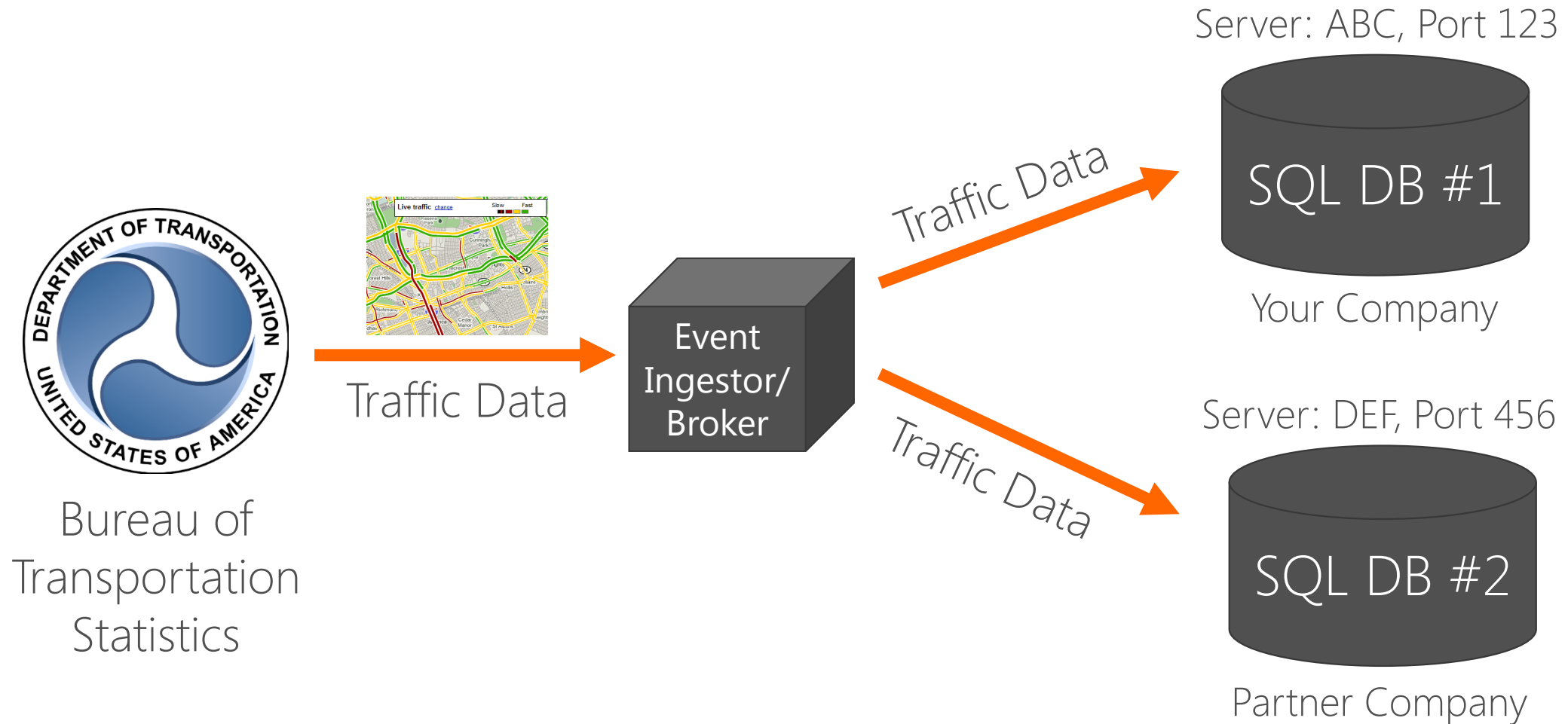
Your Company

# Reactive Remedy

- Call Bureau of Transportation Statistics to change their outbound data to funnel into server DEF and port 456
- Bureau makes support ticket
  - Your request enters their task queue
- 4 days later... ports are changed

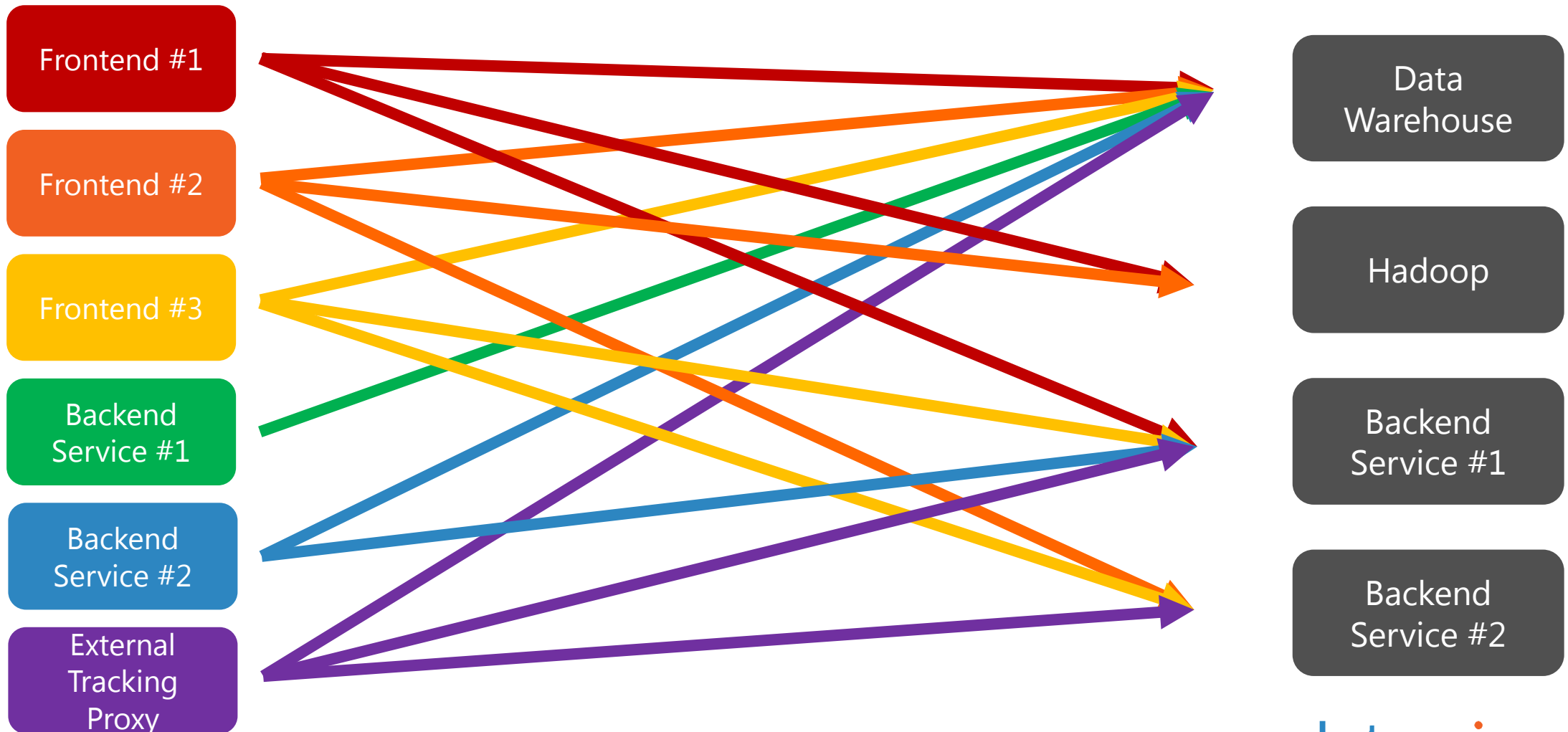


# Preventative Solution: Middleware

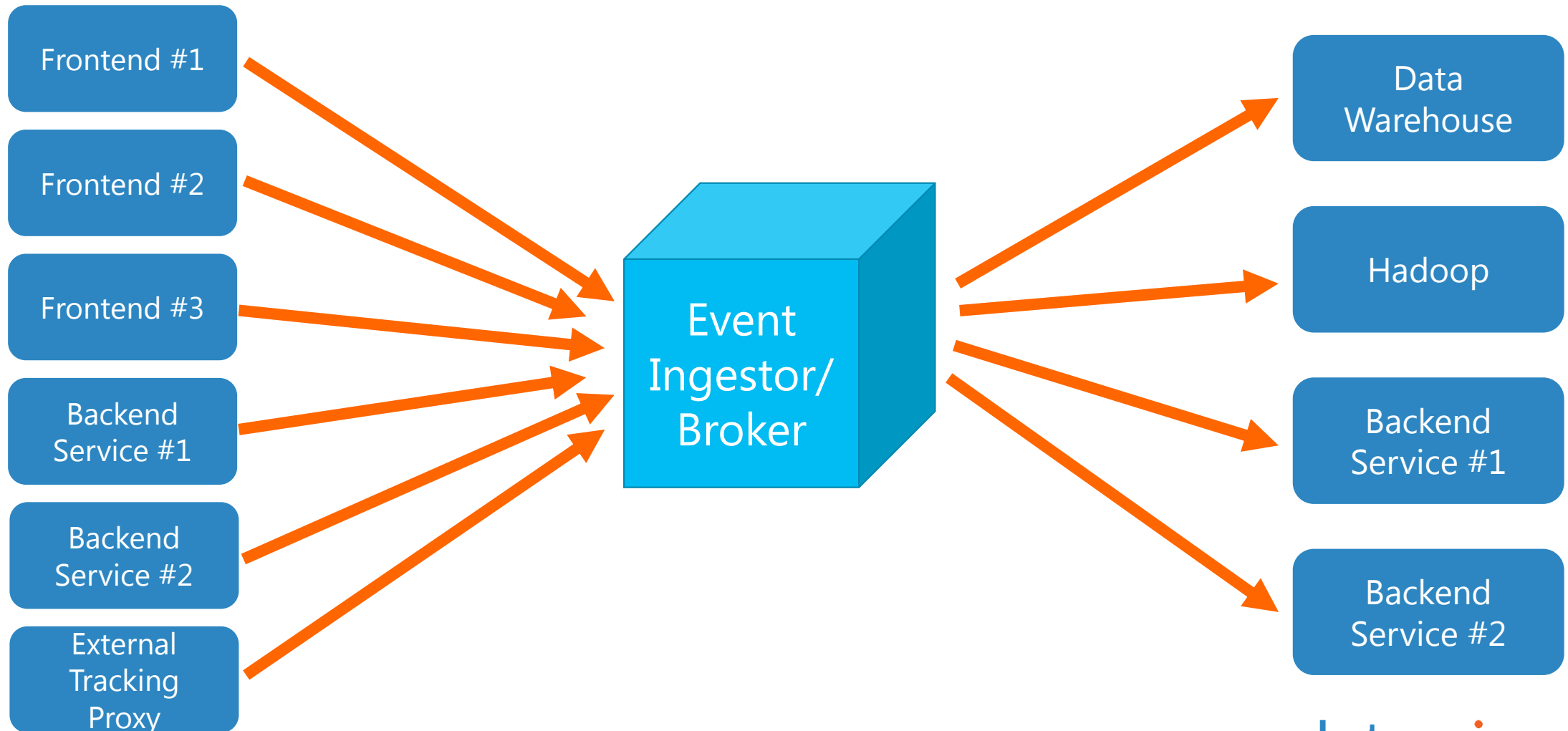




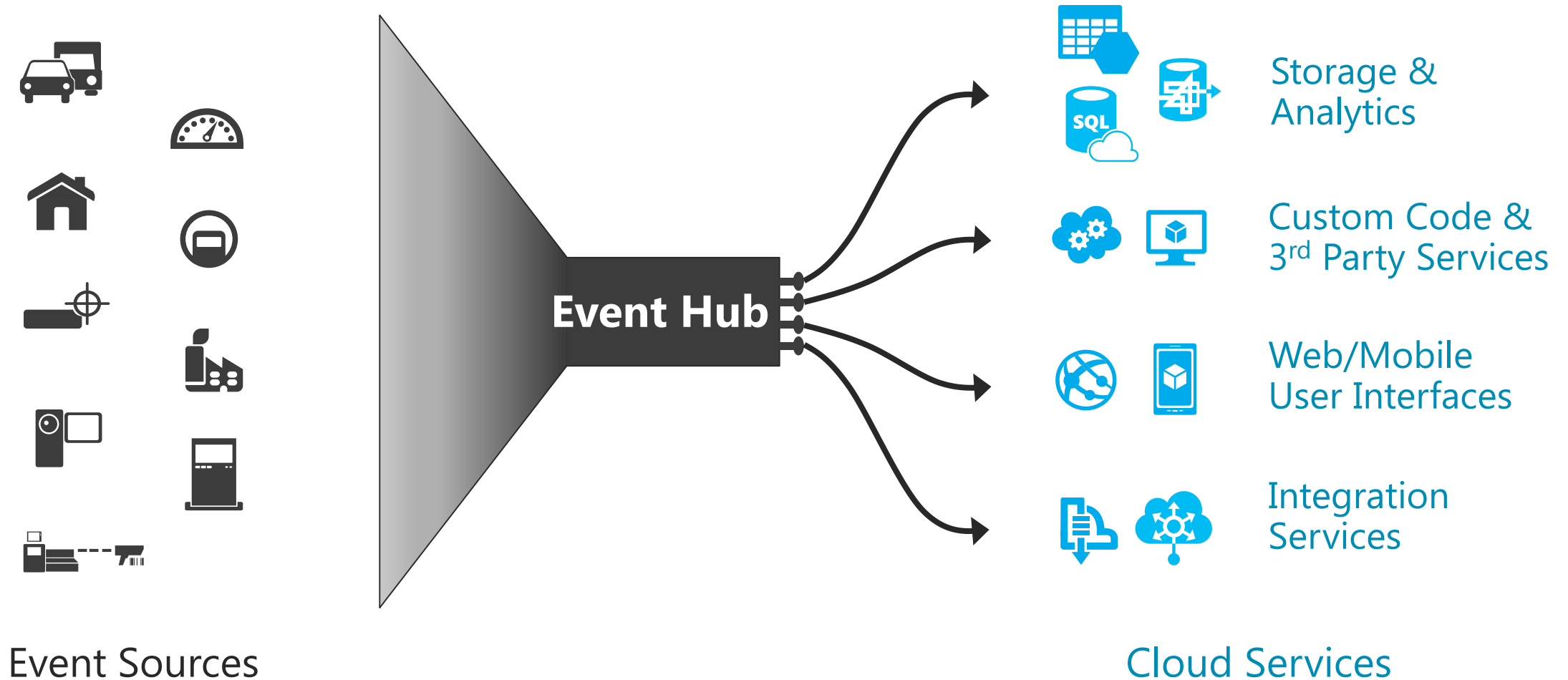
# Data Pipeline Complexity at LinkedIn



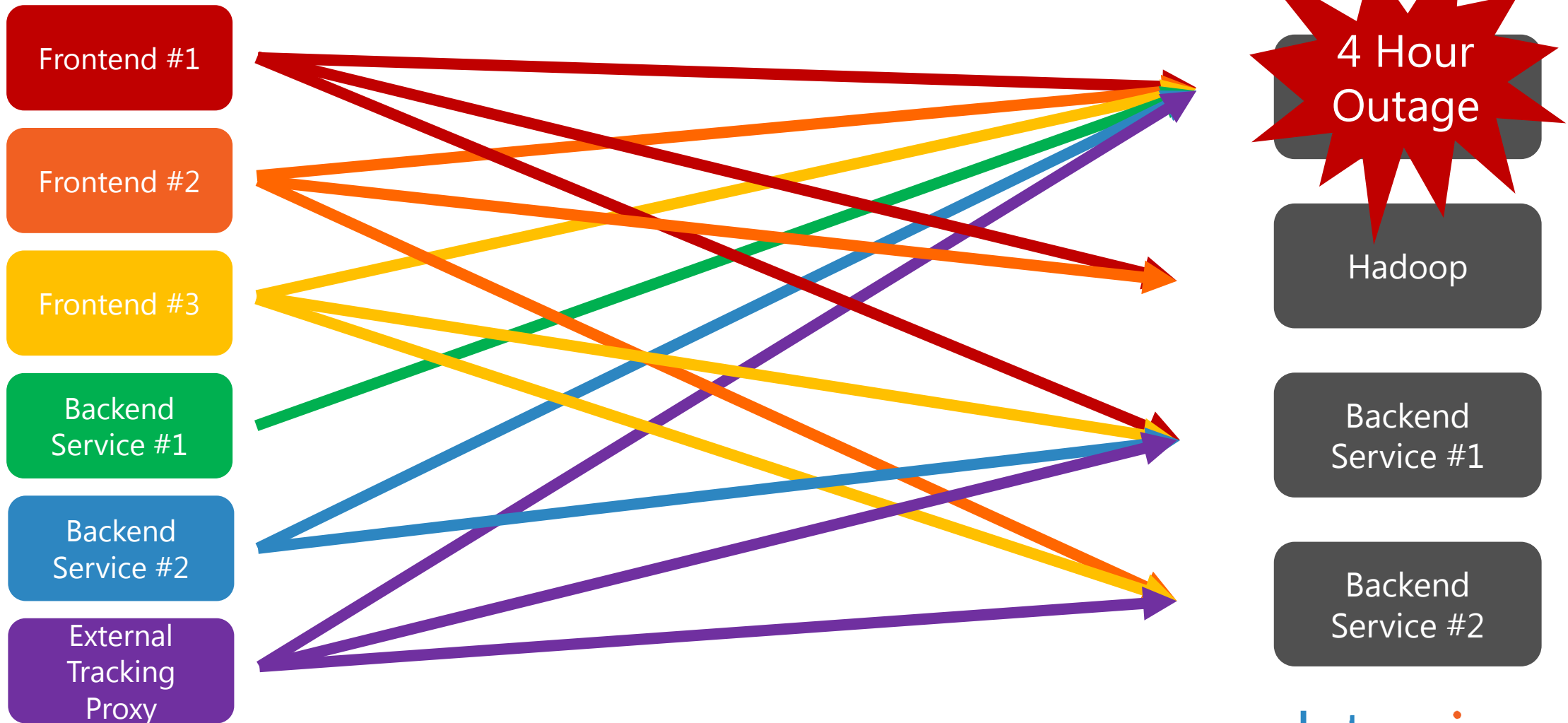
# Data Pipeline Complexity at LinkedIn



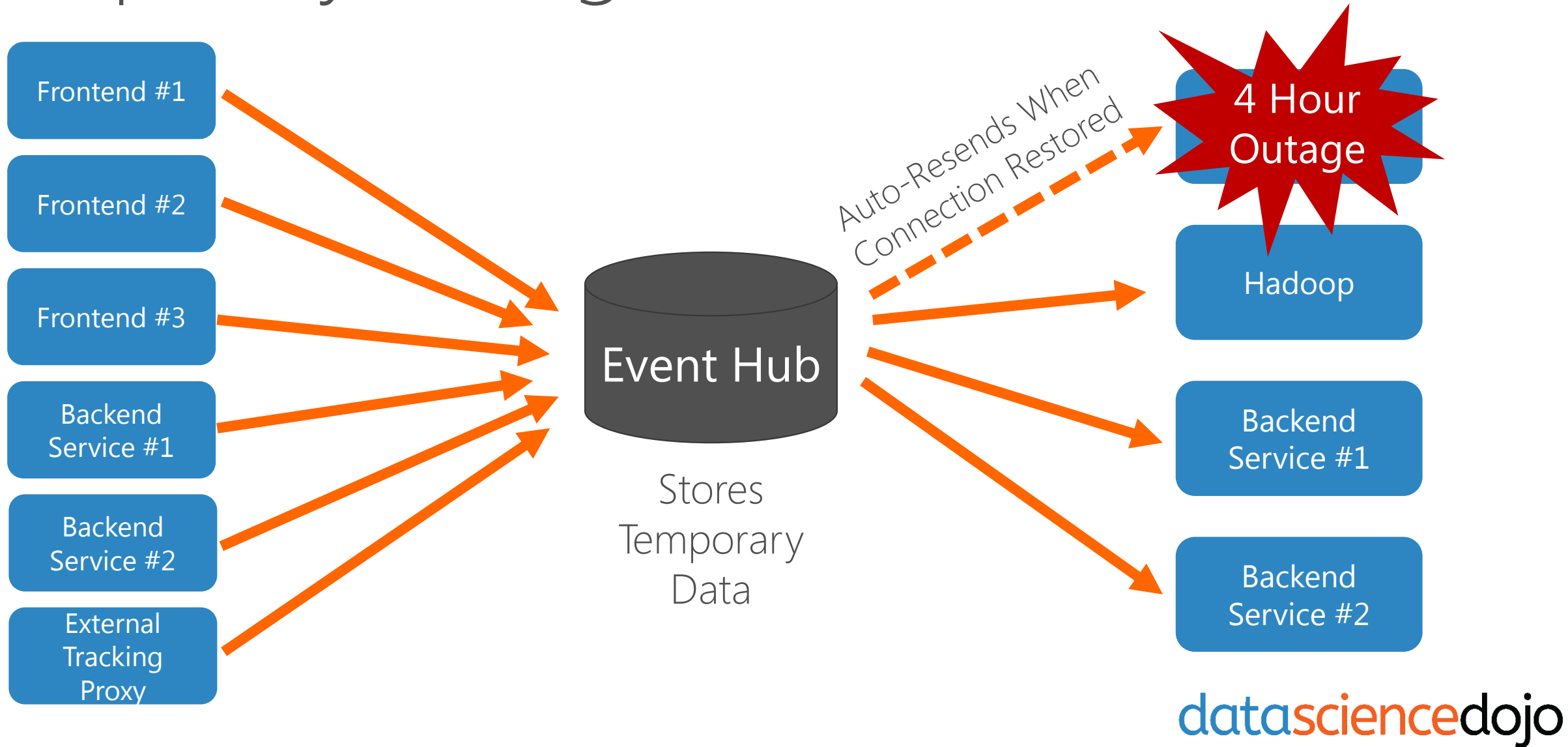
# Event Hub for IoT: Big Data Ingestion



# Server Down



# Temporary Storage

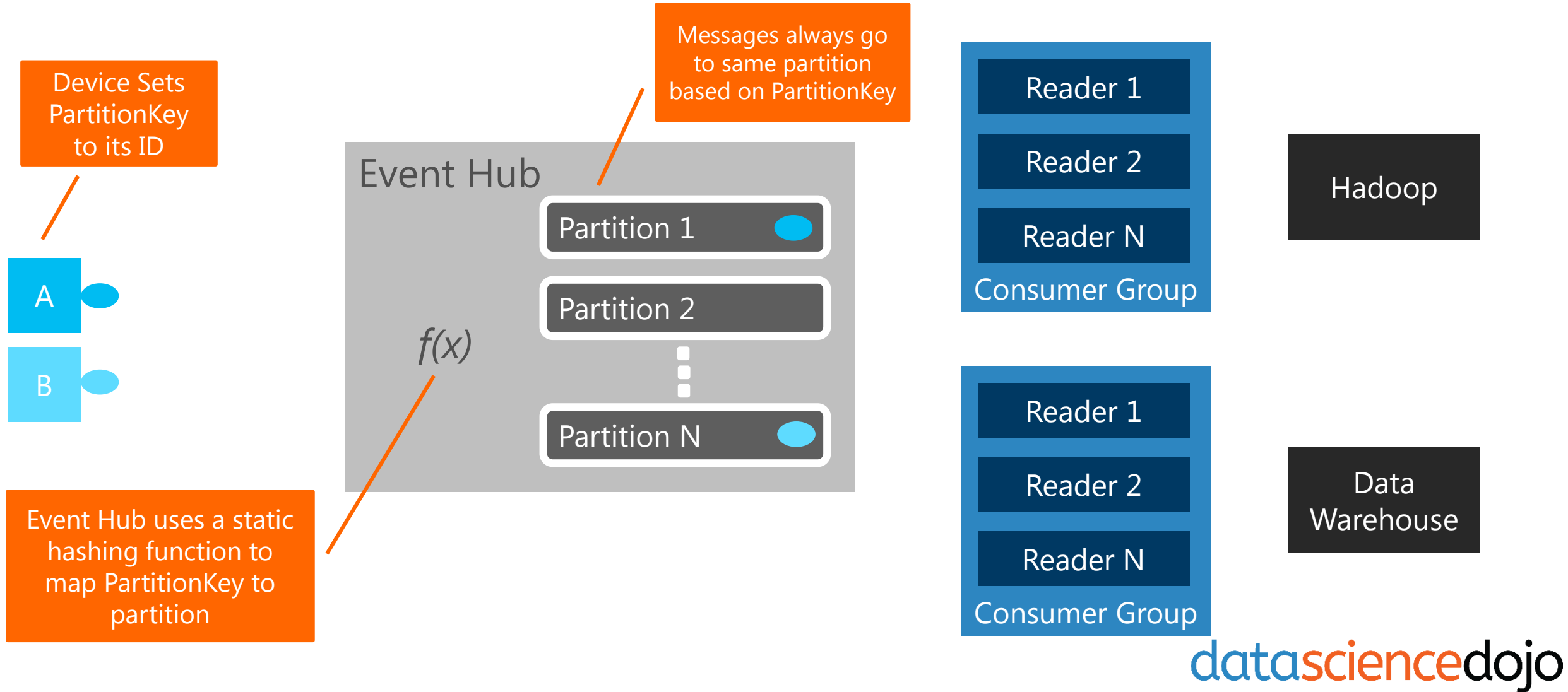


# The Post Office

- Tracks address changes
- Tries again tomorrow if send failed
- Holds packages in short term
  - Too many failed deliveries
  - Vacations
- Reduces complexity through specialization

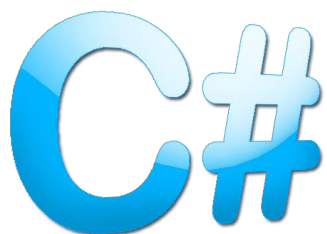


# Event Hub Consumers



# Supported Languages

Documentation Available



Supported But Documentation Still Pending

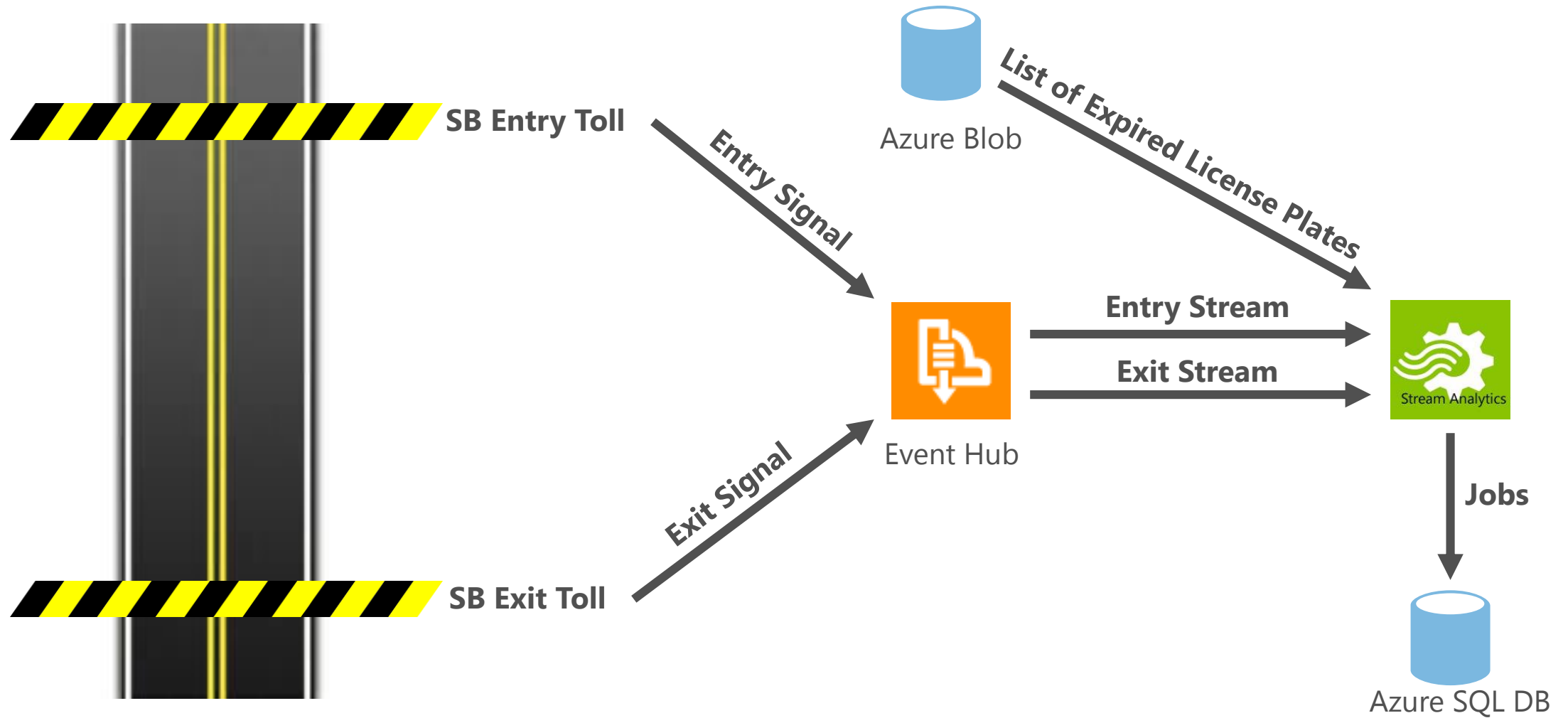


python

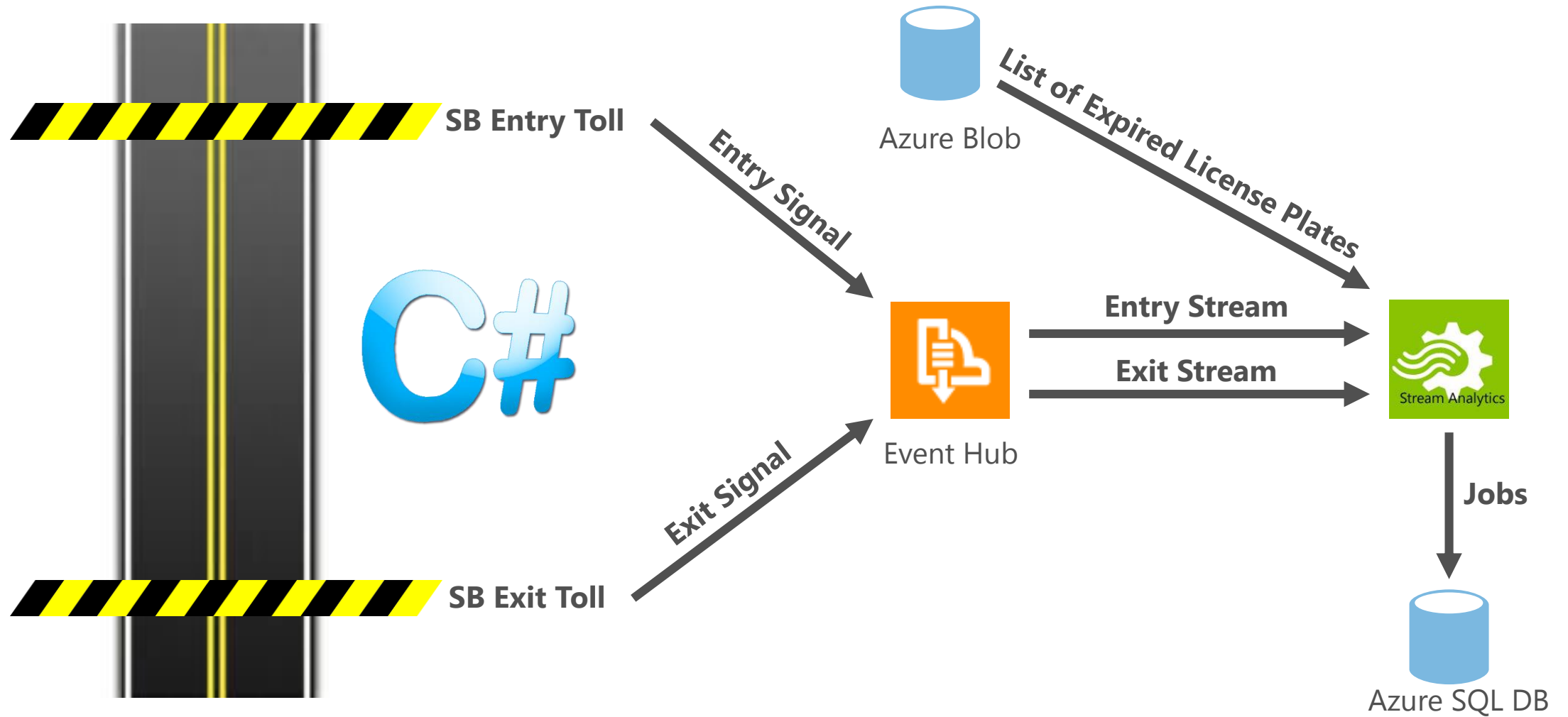




# Automated Tolloed Road Demo



# Setup File



# Questions?