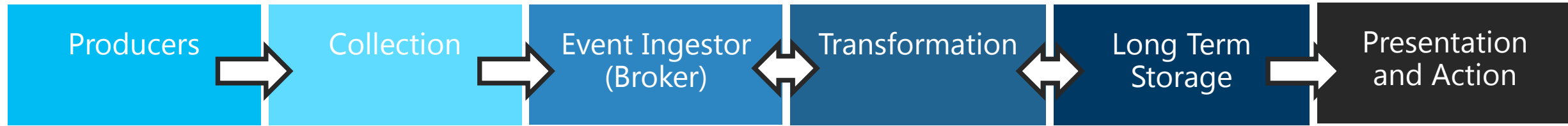


DATA INGESTION WITH EVENT HUB

Phuc Duong

Typical Event Processing



Applications



Cloud Gateways
(WebAPIs)



Scalable
Event Broker



External
Data Sources



Web/Thick
Client Dashboards



Devices



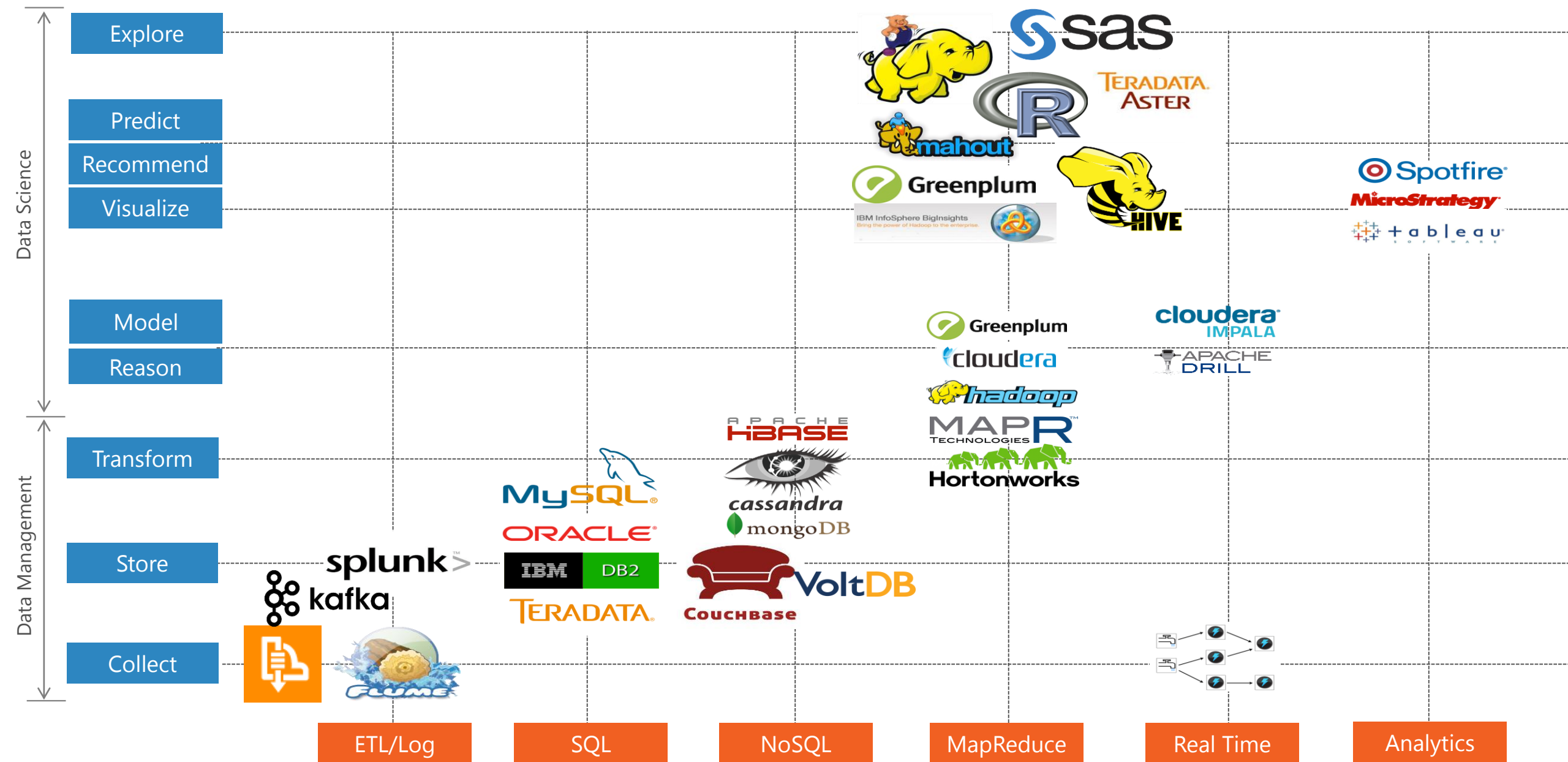
Field Gateways



Search and Query



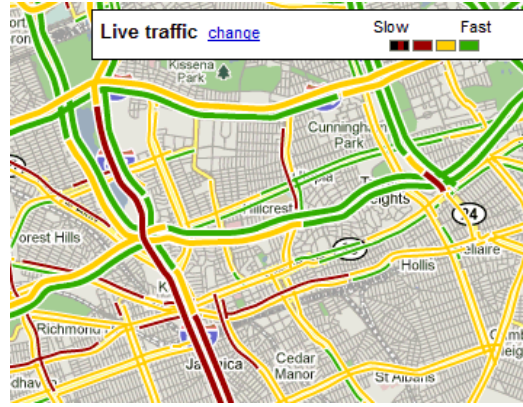
Data Analytics



Hypothetical Scenario



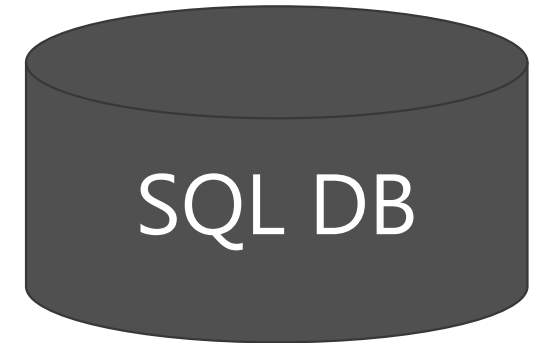
Bureau of
Transportation
Statistics



Sends Traffic Data



Server: ABC, Port 123

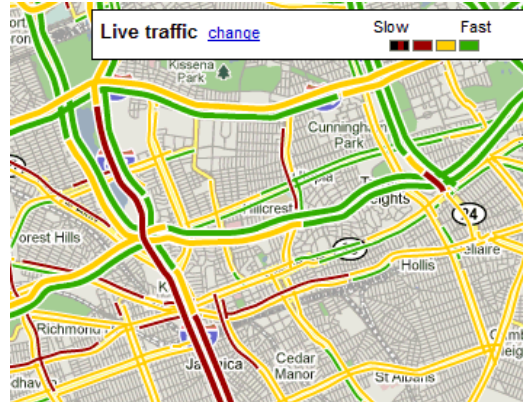


Your Company

Things Change



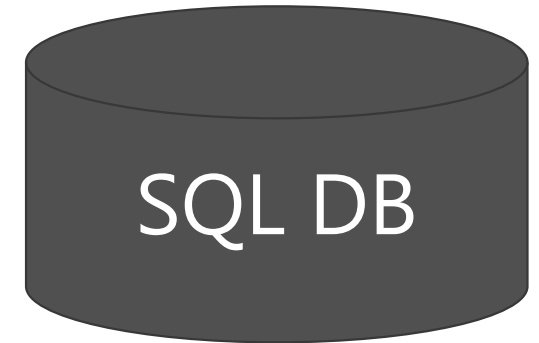
Bureau of
Transportation
Statistics



Sends Traffic Data



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

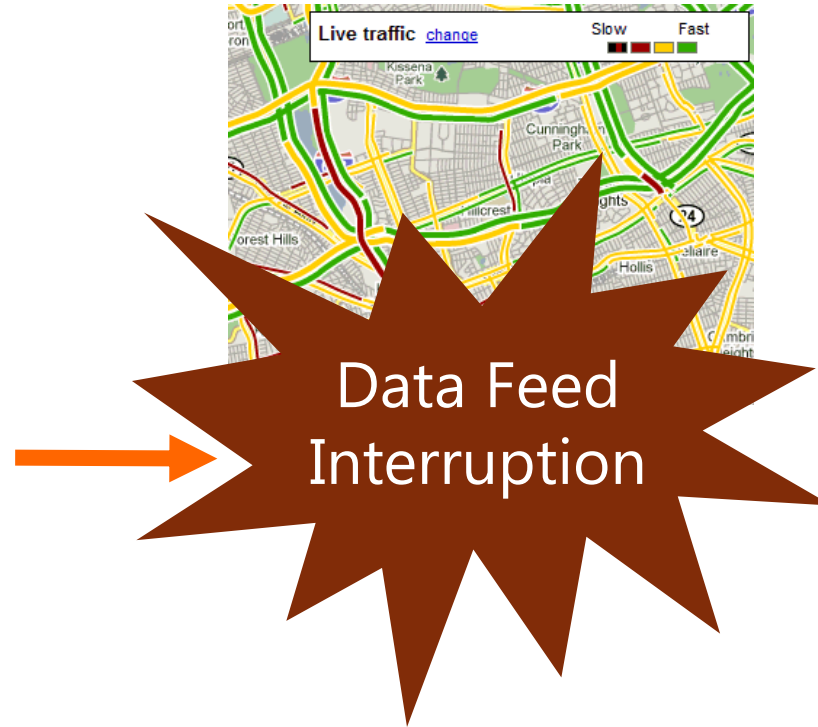


Your Company

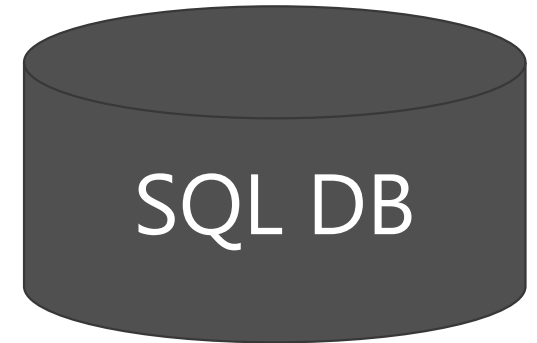
Interruption Occurs



Bureau of
Transportation
Statistics



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



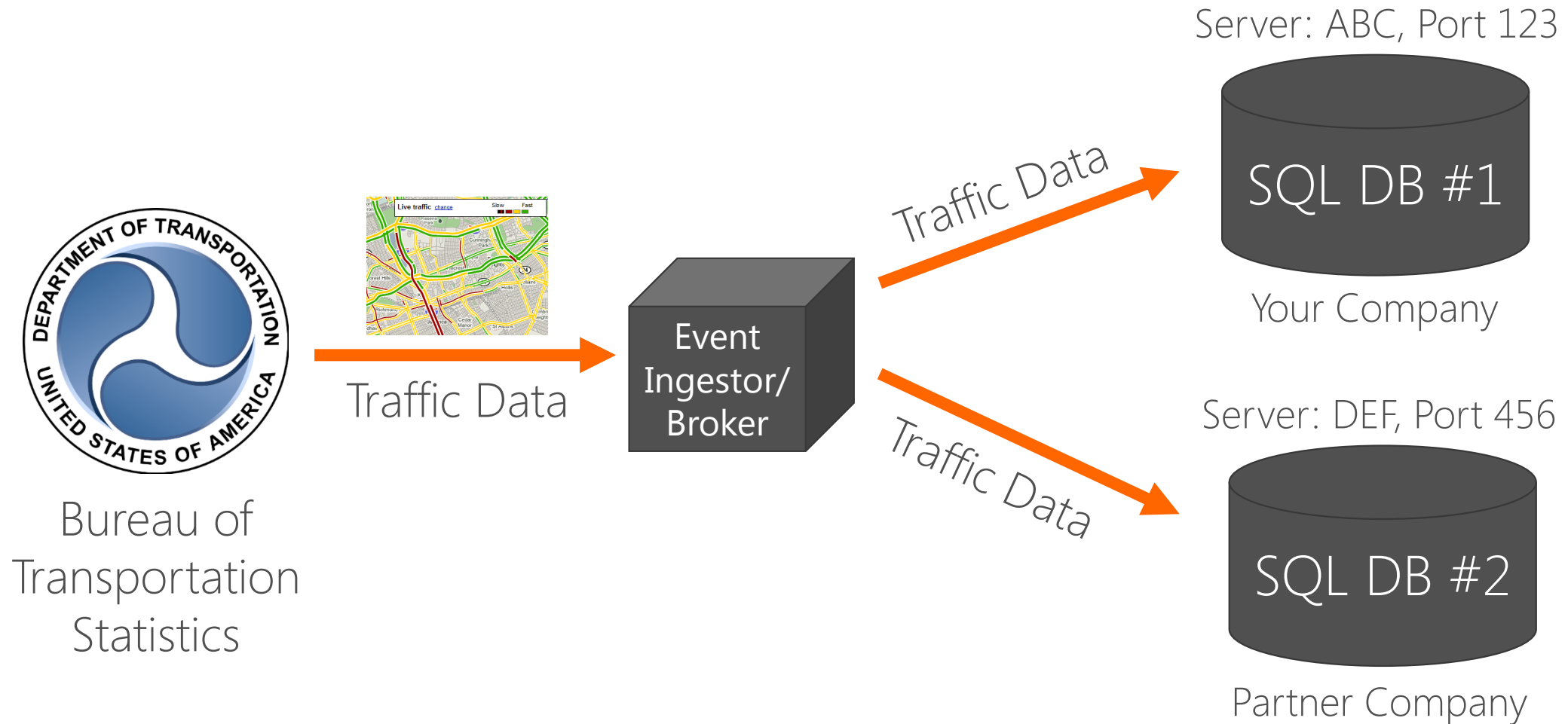
Your Company

Reactive Remedy

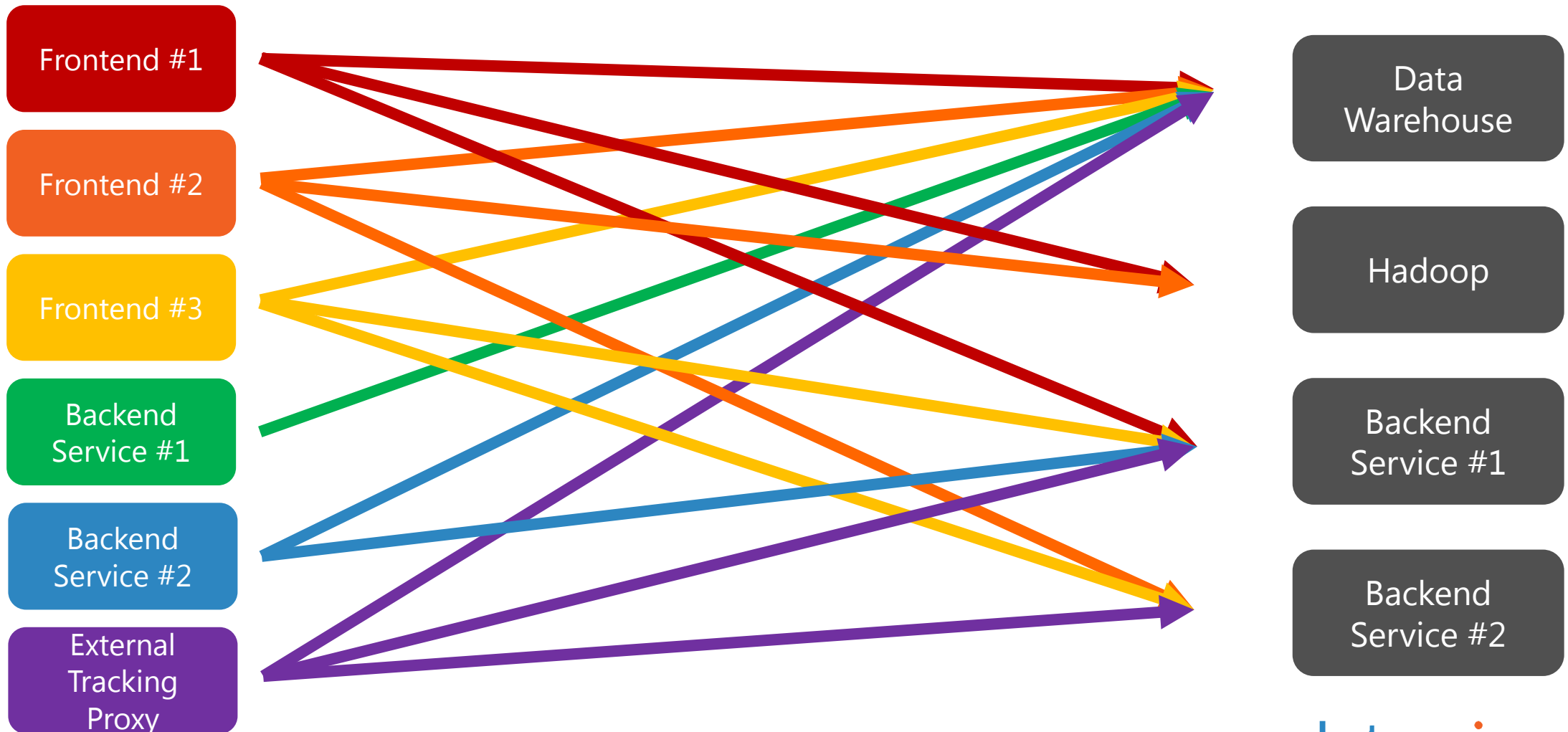
- Call Bureau of Transportation Statistics to change their outbound data to funnel into server DEF and port 456
- Bureau makes support ticket
 - Your request enters their task queue
- 4 days later... ports are changed



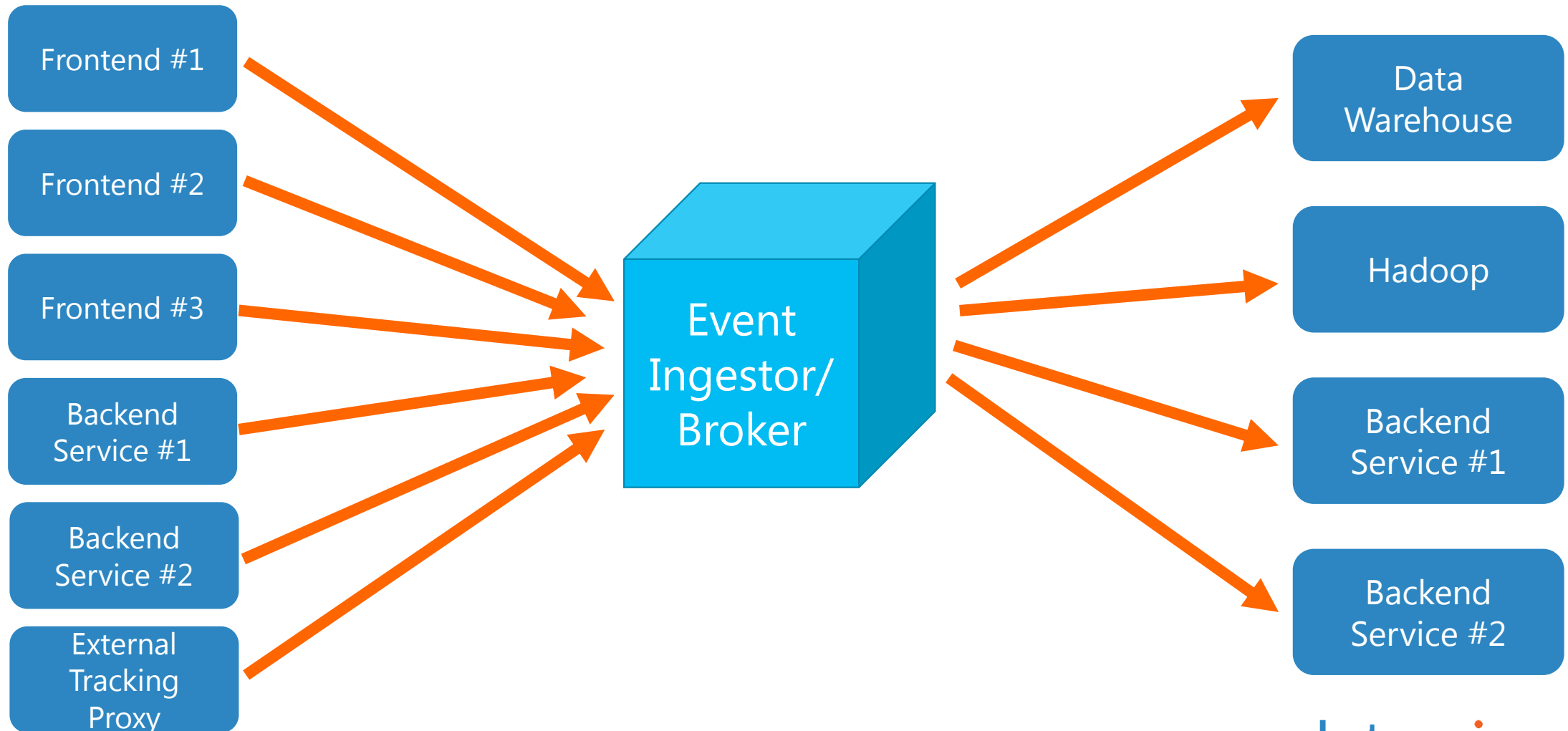
Preventative Solution: Middleware



Data Pipeline Complexity at LinkedIn



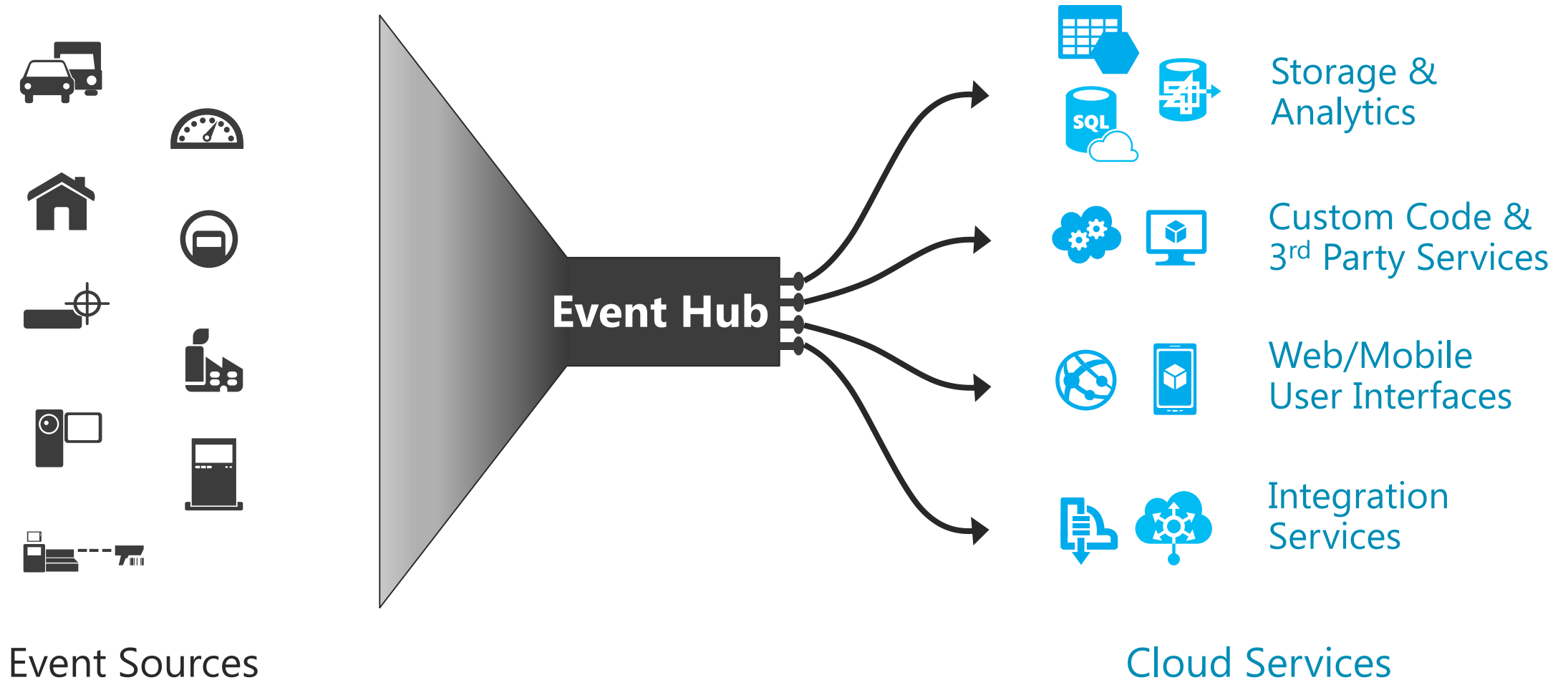
Data Pipeline Complexity at LinkedIn



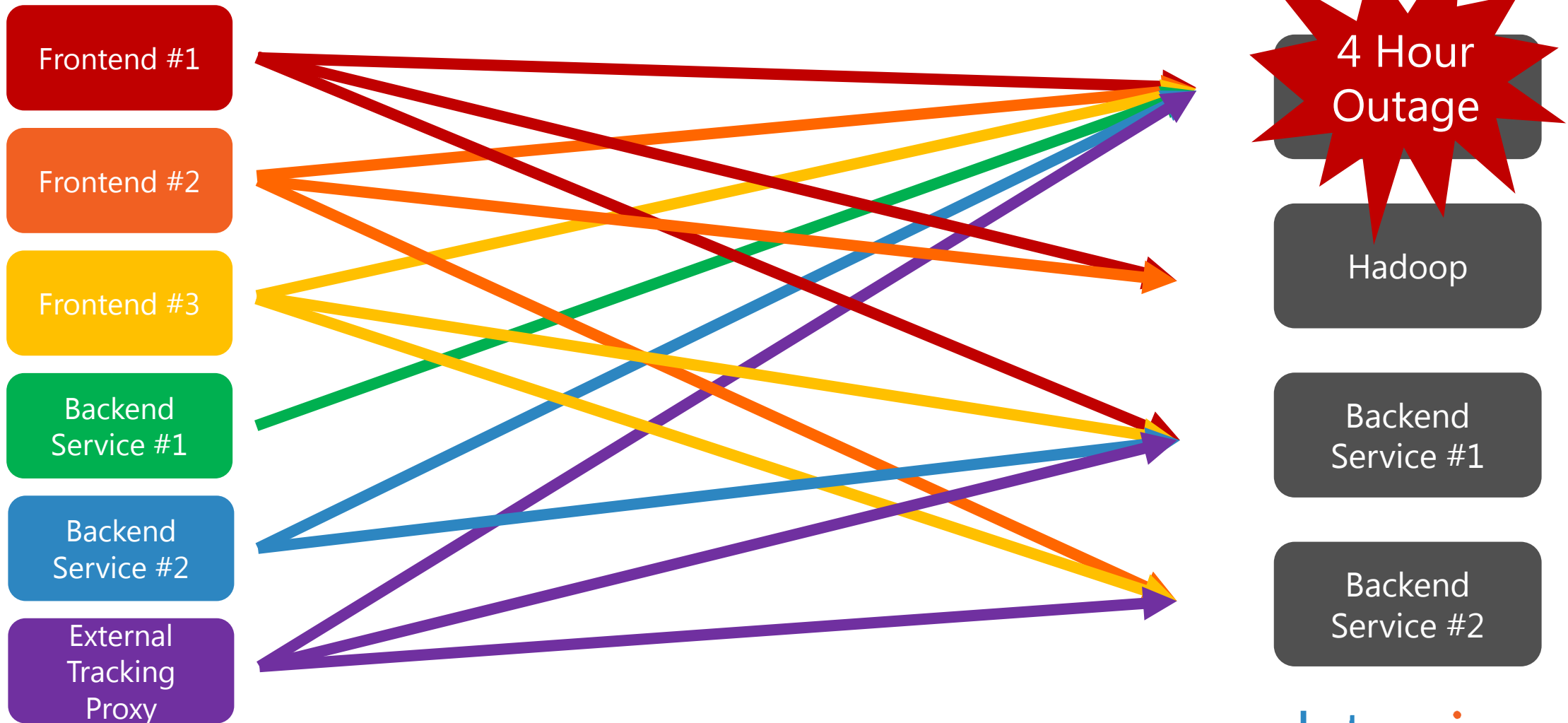
Popular Event Brokers



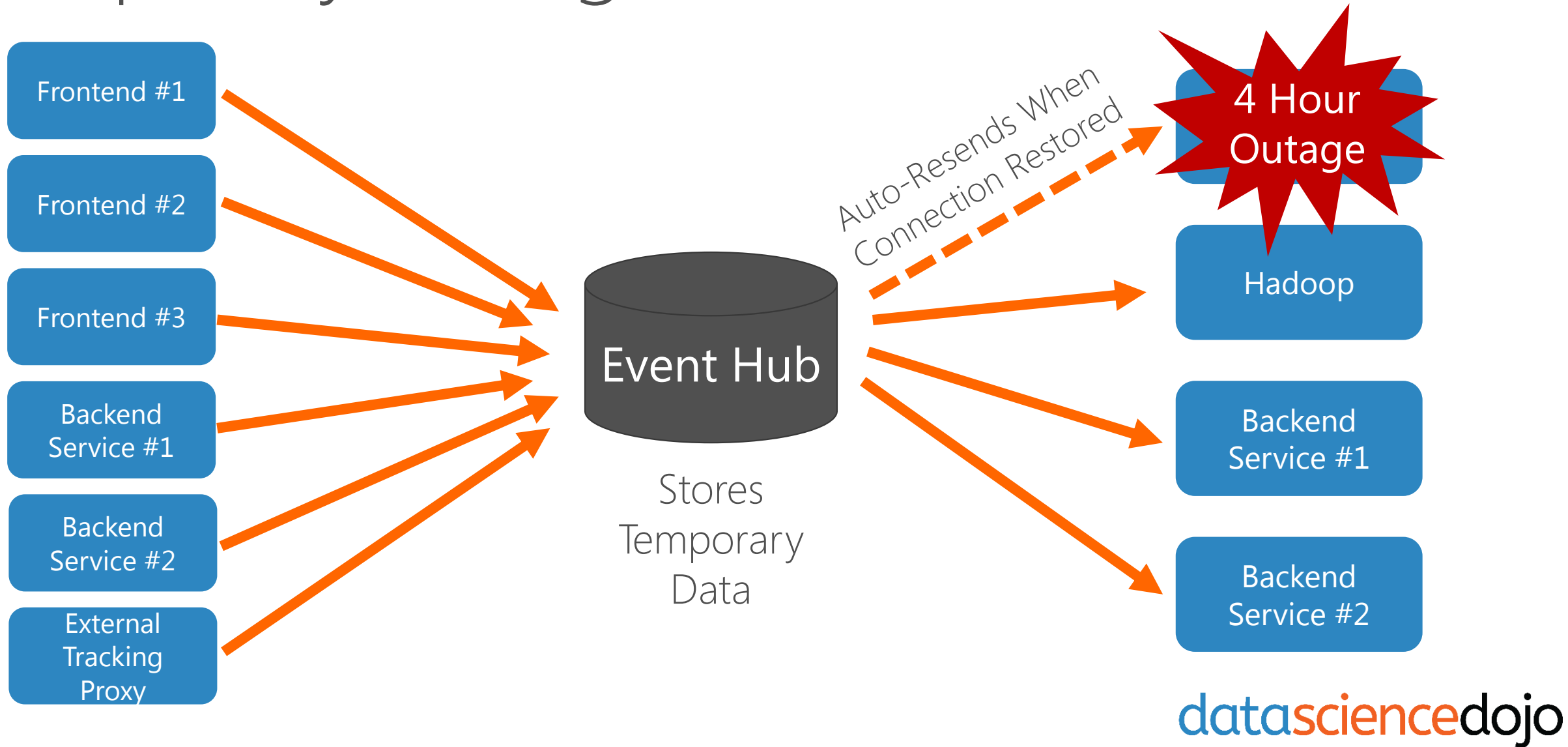
Event Hub for IoT: Big Data Ingestion



Server Down



Temporary Storage

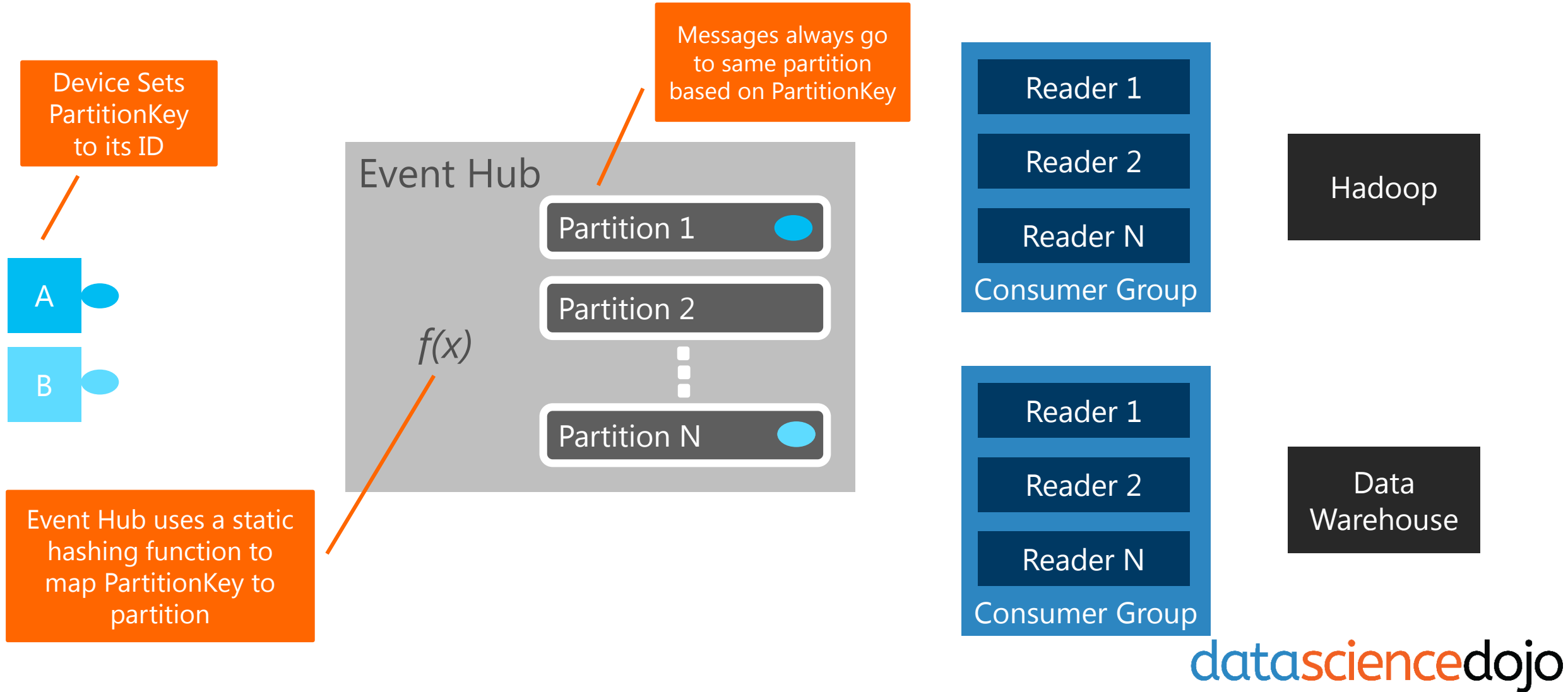


The Post Office

- 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

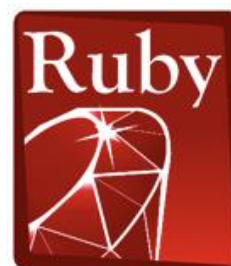


Supported Languages

Documentation Available



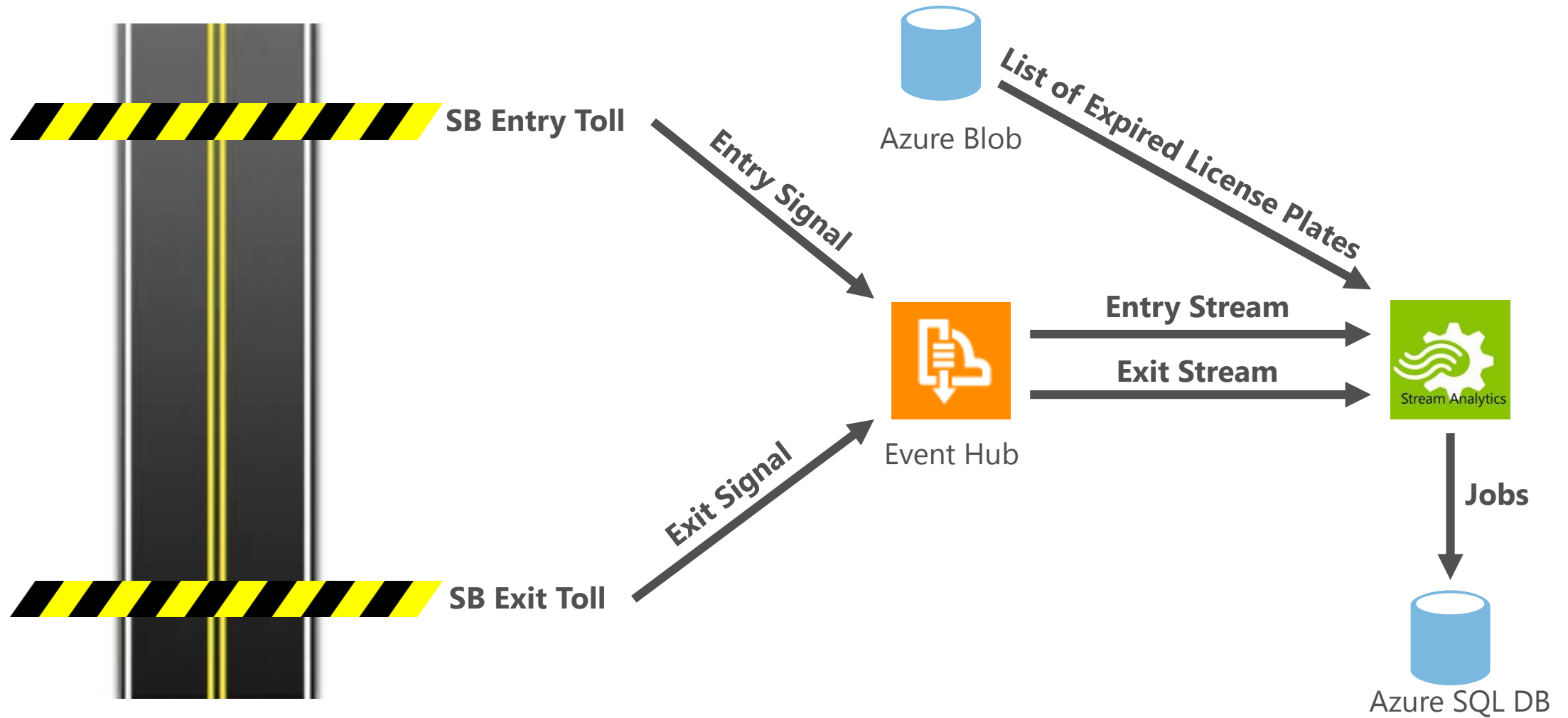
Supported But Documentation Still Pending



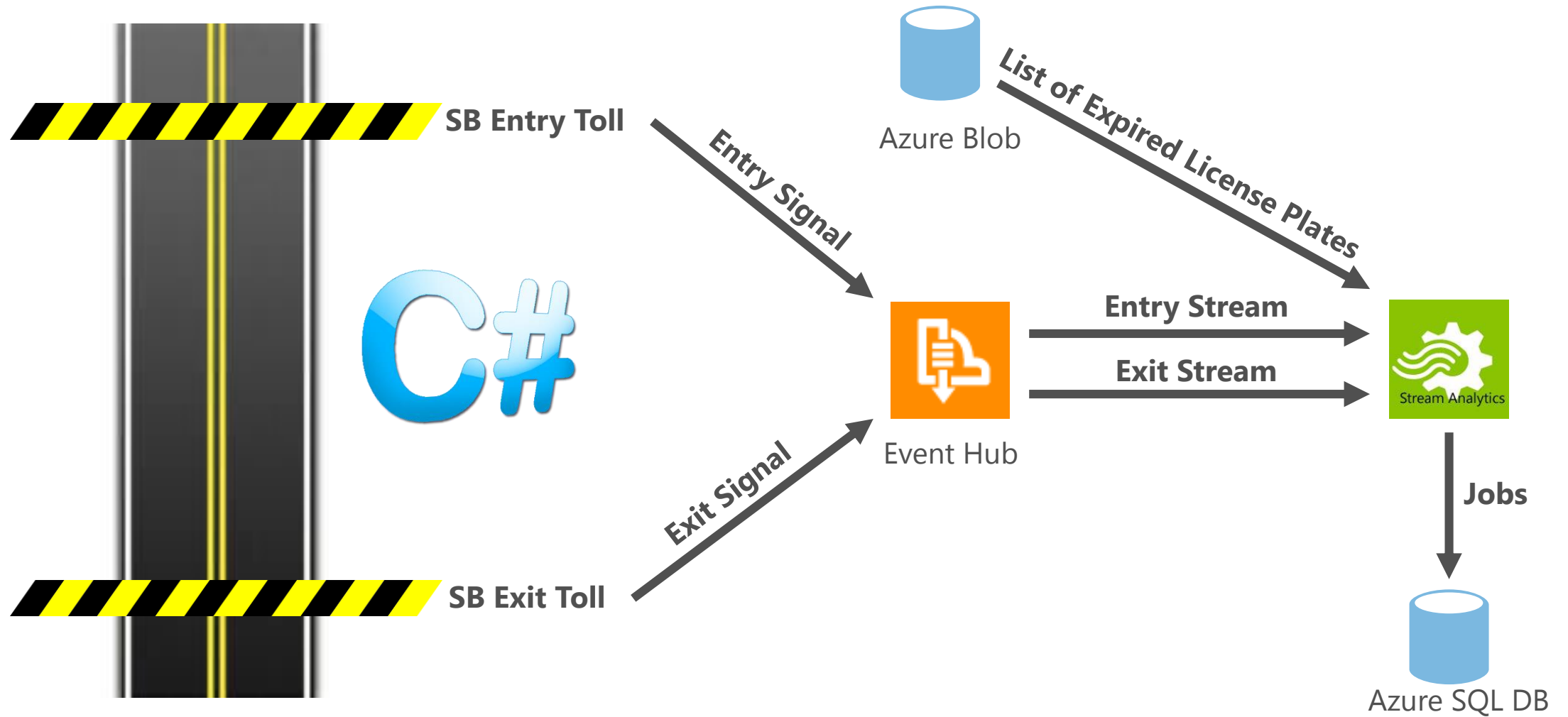
python



Automated Tolloed Road Demo



Setup File



Questions?