

Data Ingestion With Event Hub

Data Science Dojo

Typical Event Processing



Applications



Cloud Gateways
(WebAPIs)



Scalable
Event Broker



External
Data Sources



Web/Thick
Client Dashboards



Devices



Field Gateways



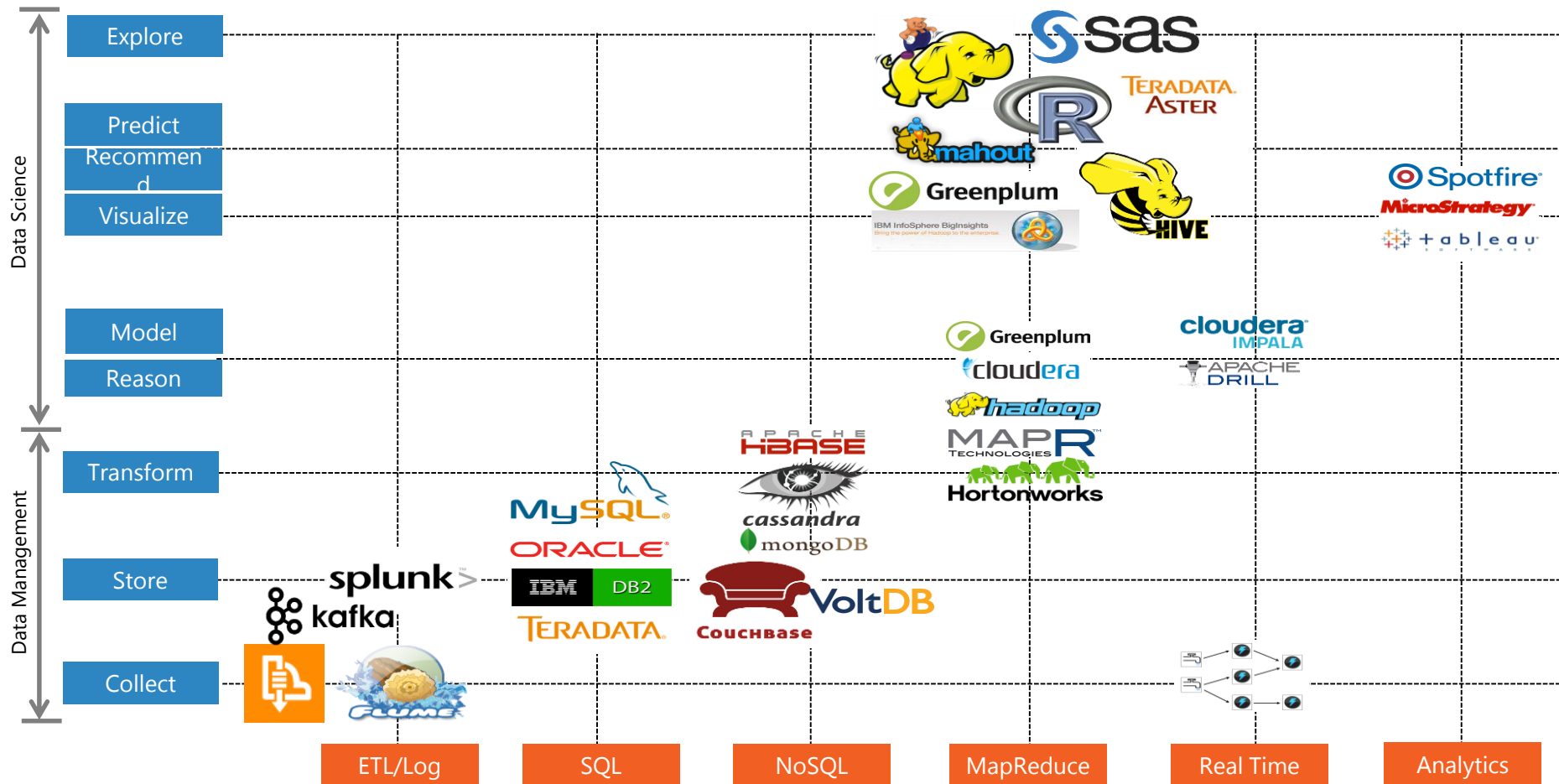
Search and Query



Data Analytics

data science dojo

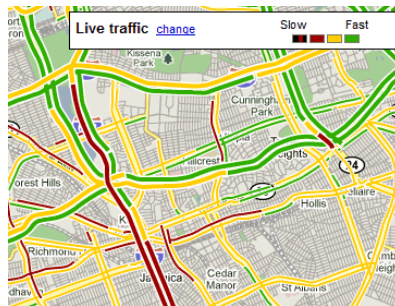
unleash the data scientist in you



Hypothetical Scenario



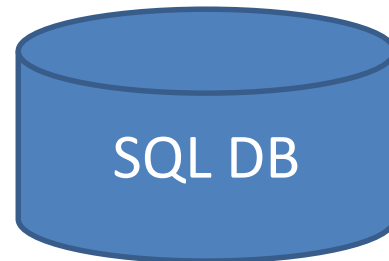
Bureau of
Transportation
Statistics



Sends Traffic Data



Server: ABC, Port 123

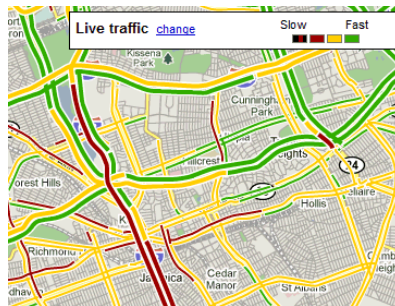


Your Company

Things Change



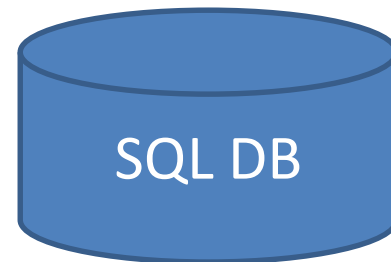
Bureau of
Transportation
Statistics



Sends Traffic Data



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

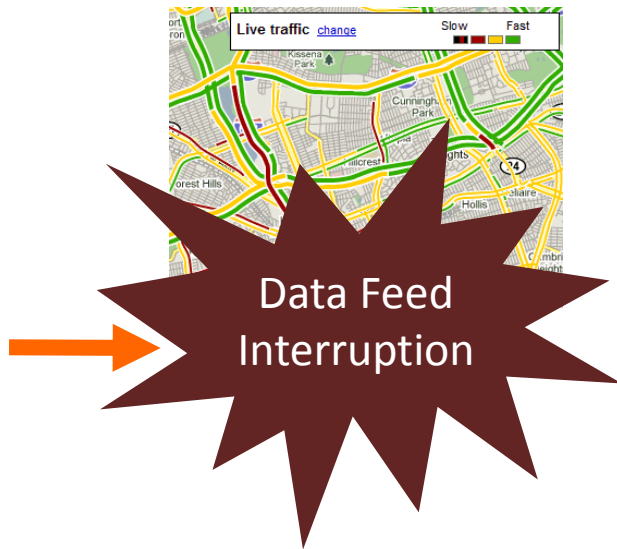


Your Company

Interruption Occurs

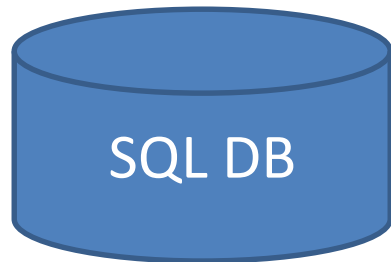


Bureau of
Transportation
Statistics



WAS Server: ABC, Port 123

Now Server: DEF, Port 456



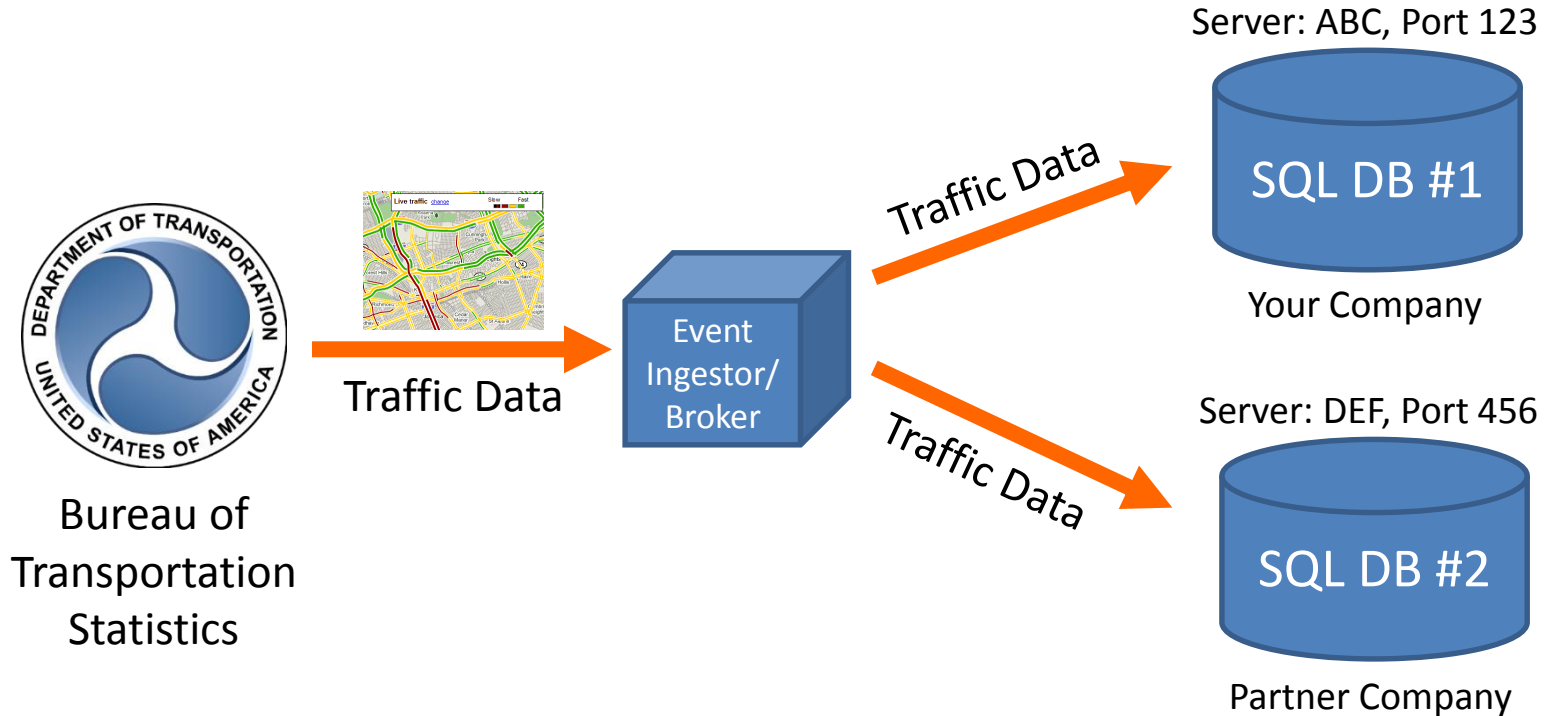
Your Company

Reactive Remedy

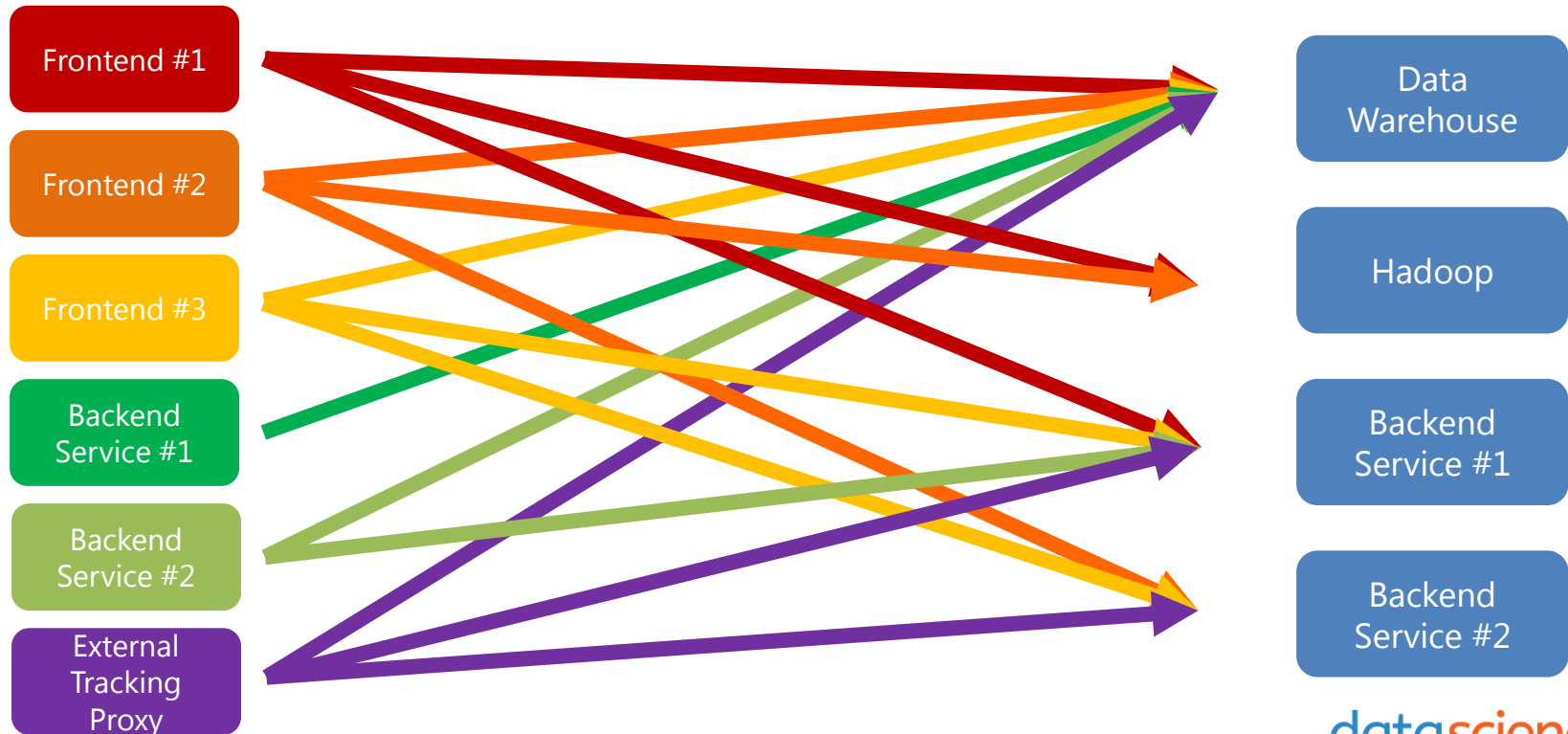
- Call Bureau of Transportation Statistics to change their outbound data to funnel into server DEF and port 456
- Bureau makes support ticket
 - Your request enters their task queue
- 4 days later... ports are changed



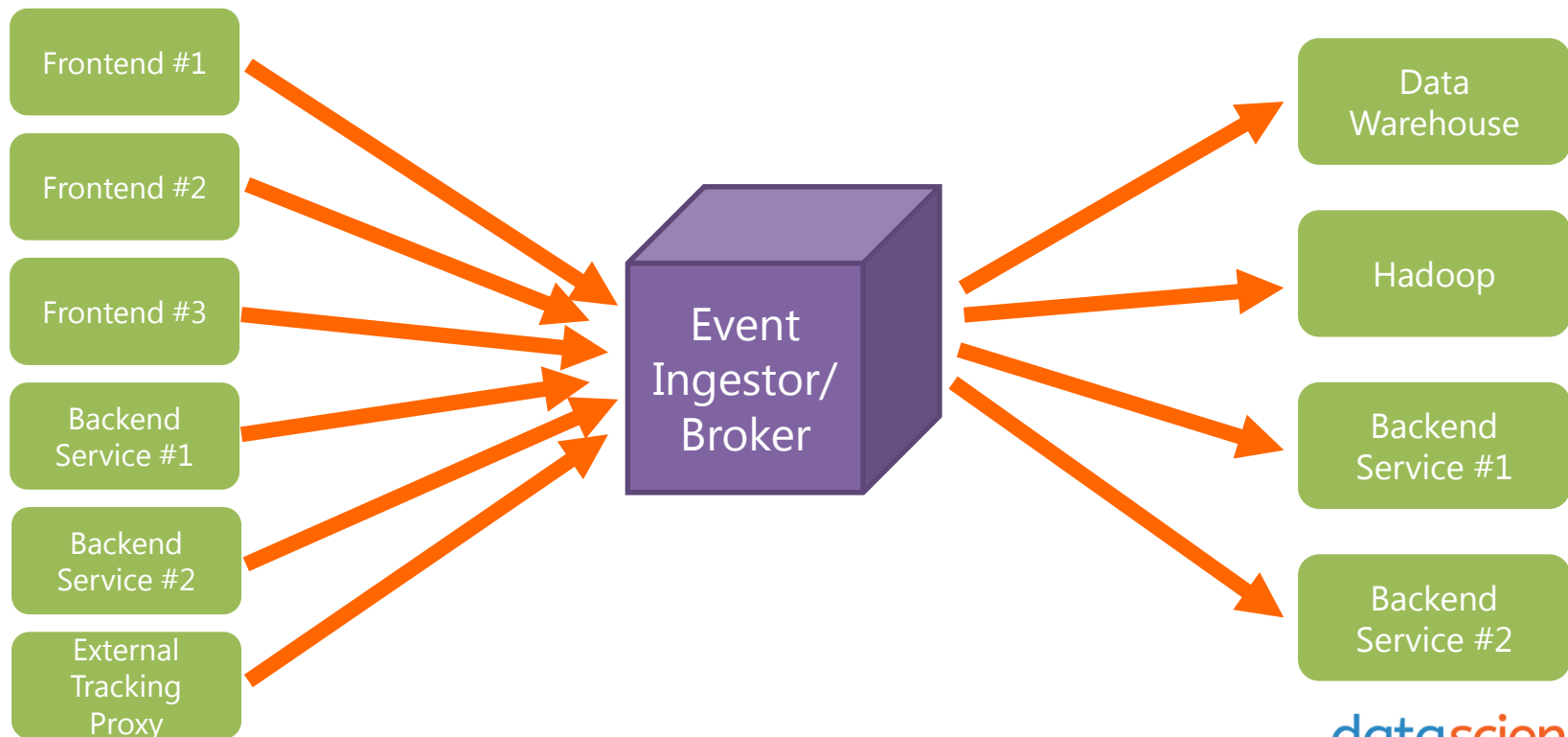
Preventative Solution: Middleware



Data Pipeline Complexity at LinkedIn



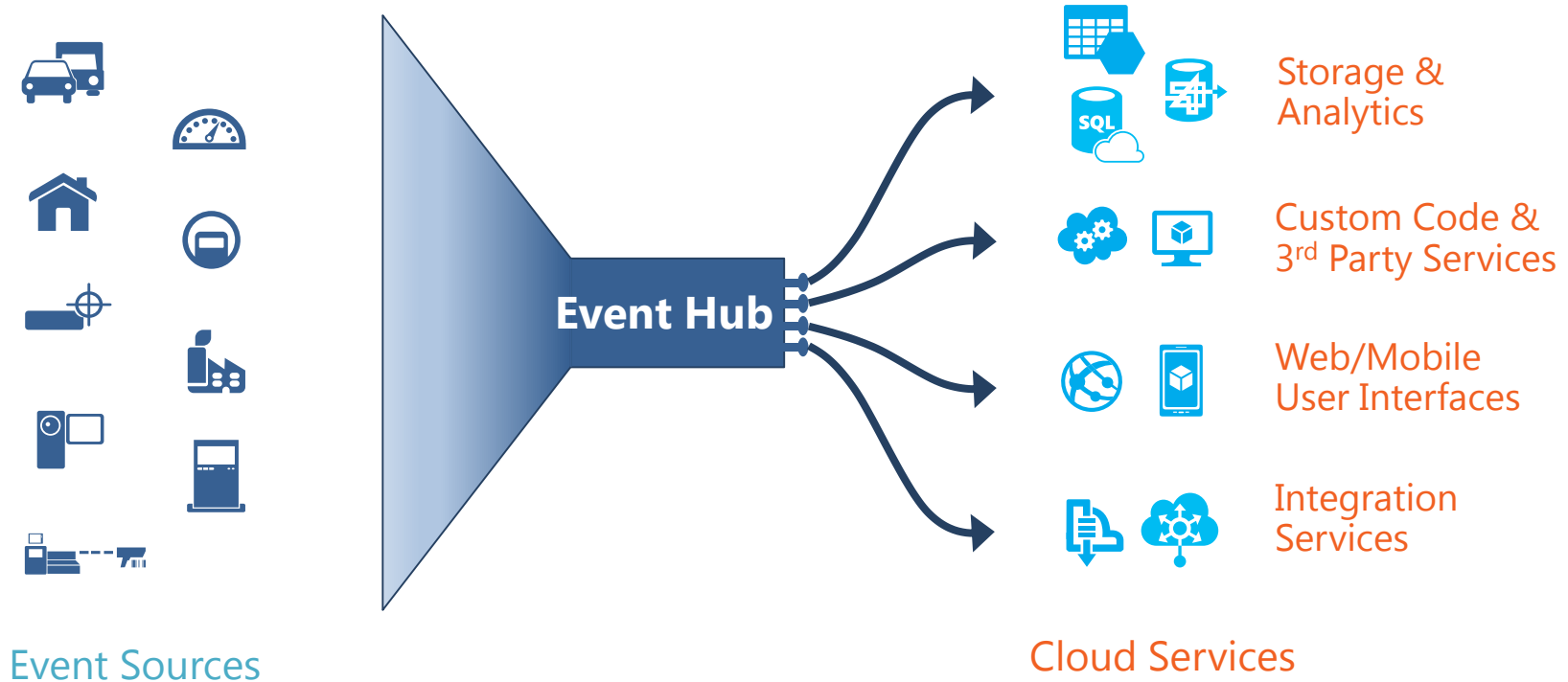
Data Pipeline Complexity at LinkedIn



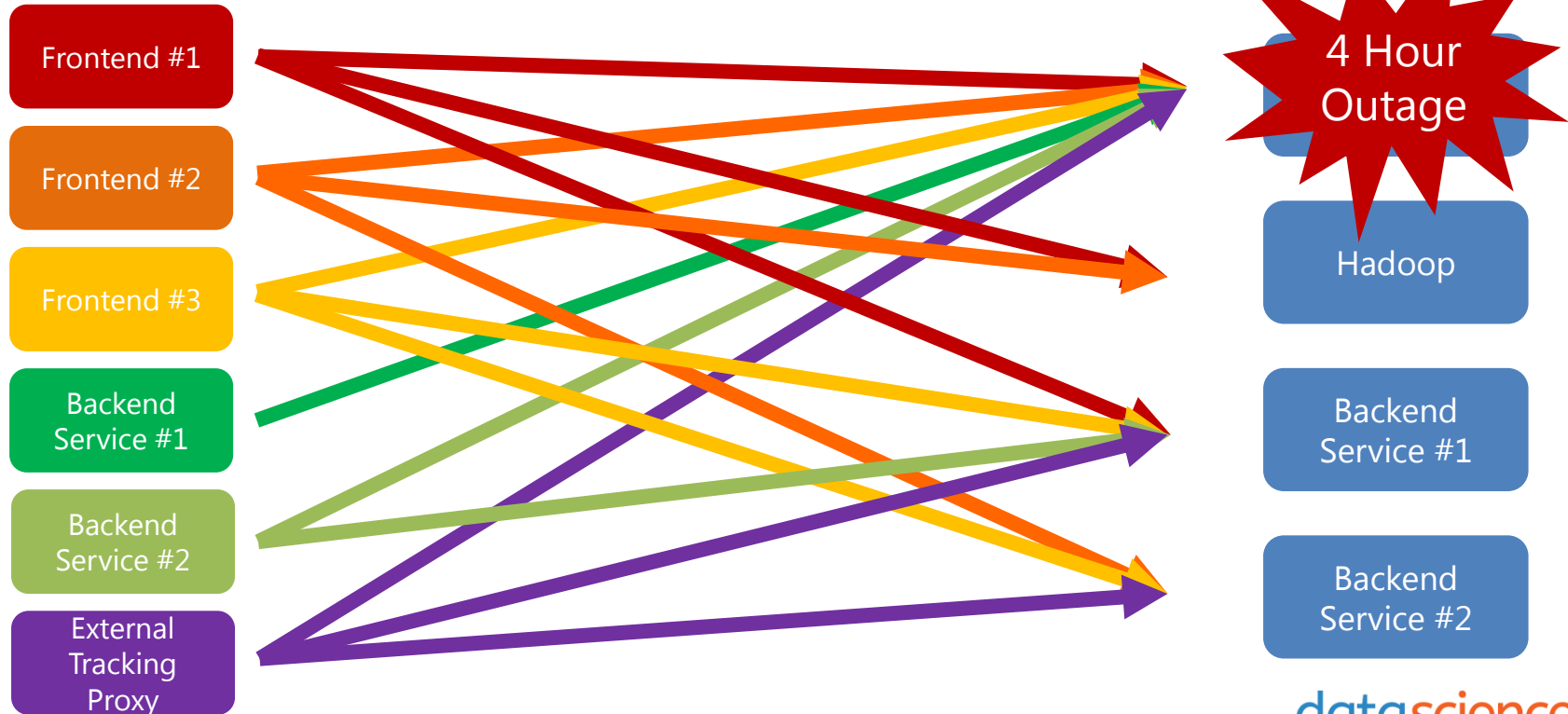
Popular Event Brokers



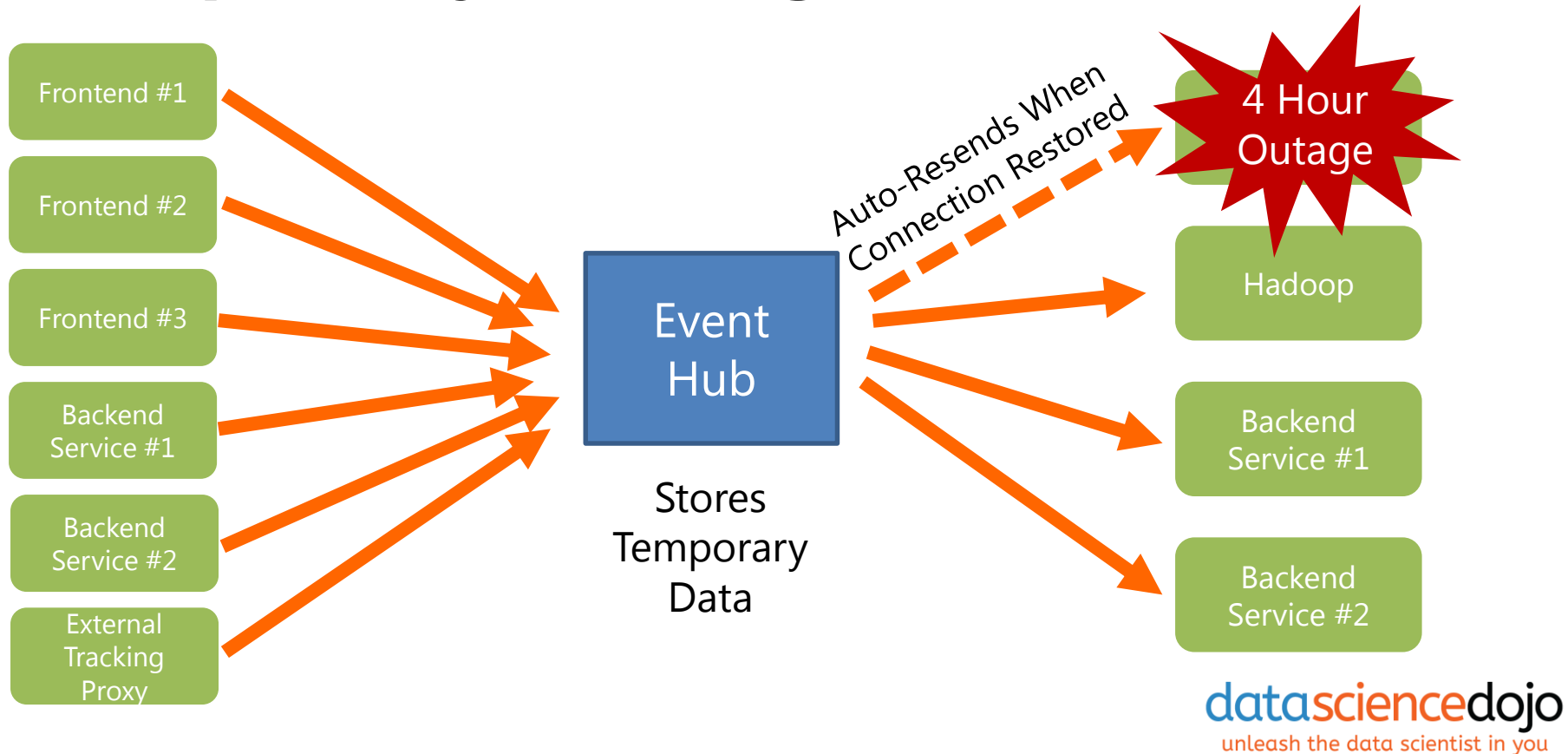
Event Hub for IoT: Big Data Ingestion



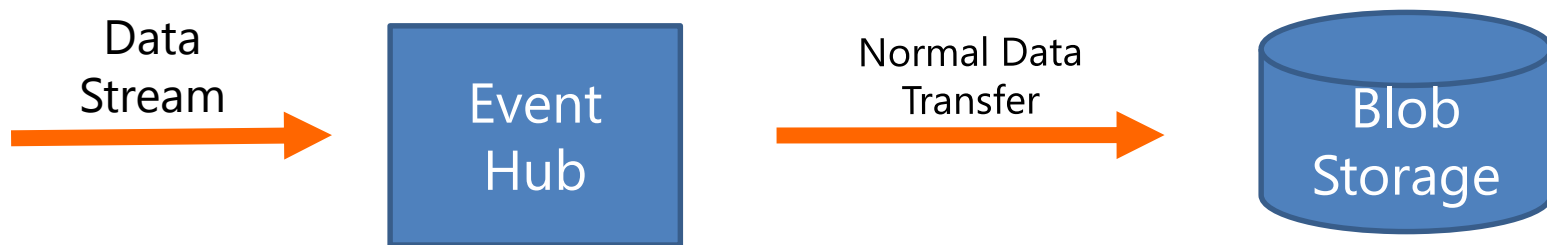
Server Down



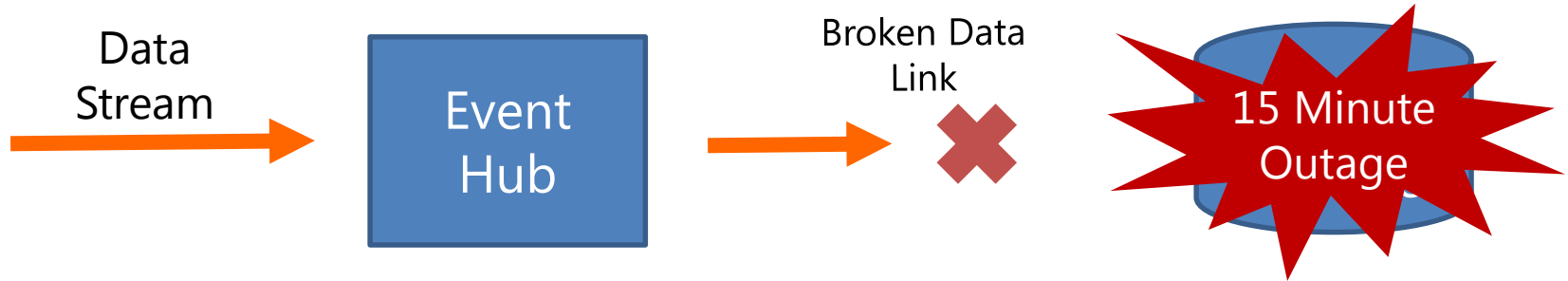
Temporary Storage



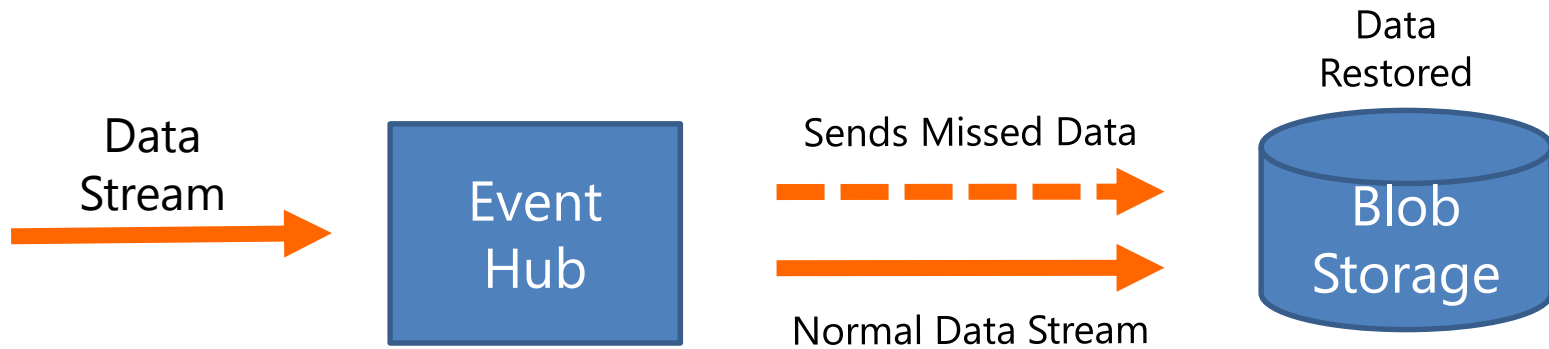
Demo: Normal Scenario



Demo: Output Downage



Demo: Output Restored

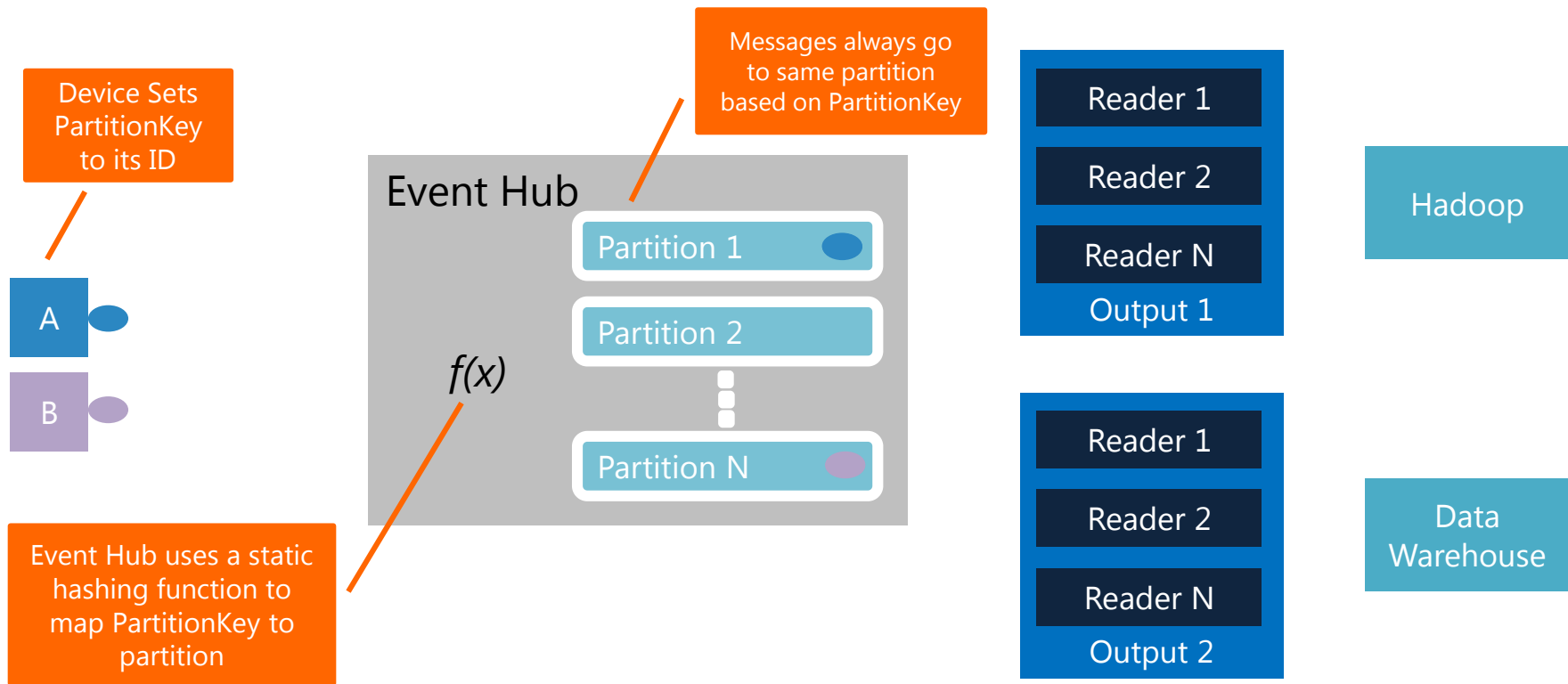


The Post Office



- 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, Stream Management



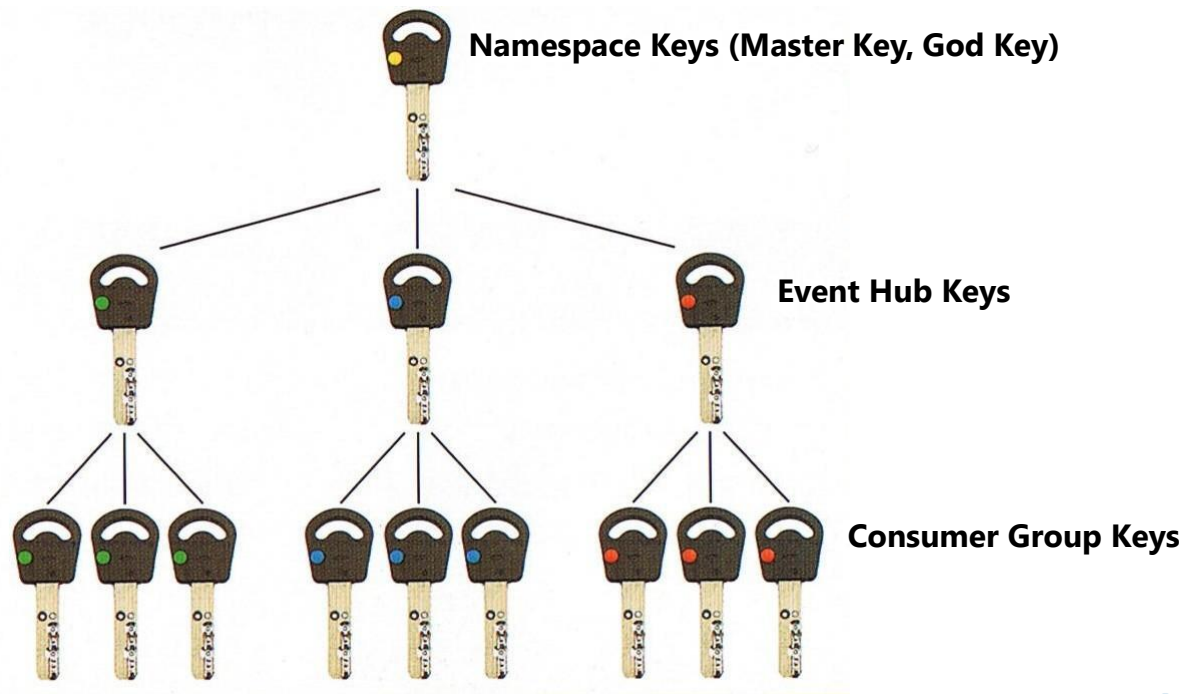
Service Bus Namespace

Service Bus Namespace

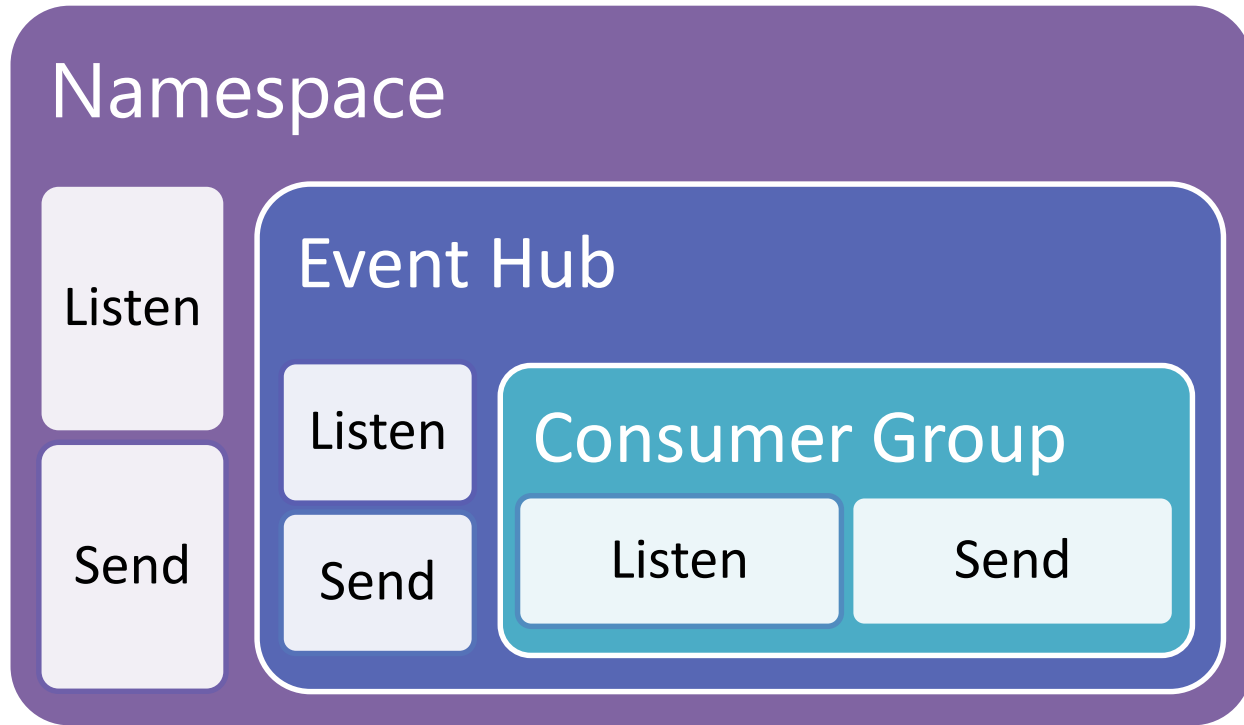
Event Hub

Event Hub

Access Rights, Policy, Keys



Access Rights



Access Rights



Supported Languages

Documentation Available



Supported But Documentation Still Pending



python

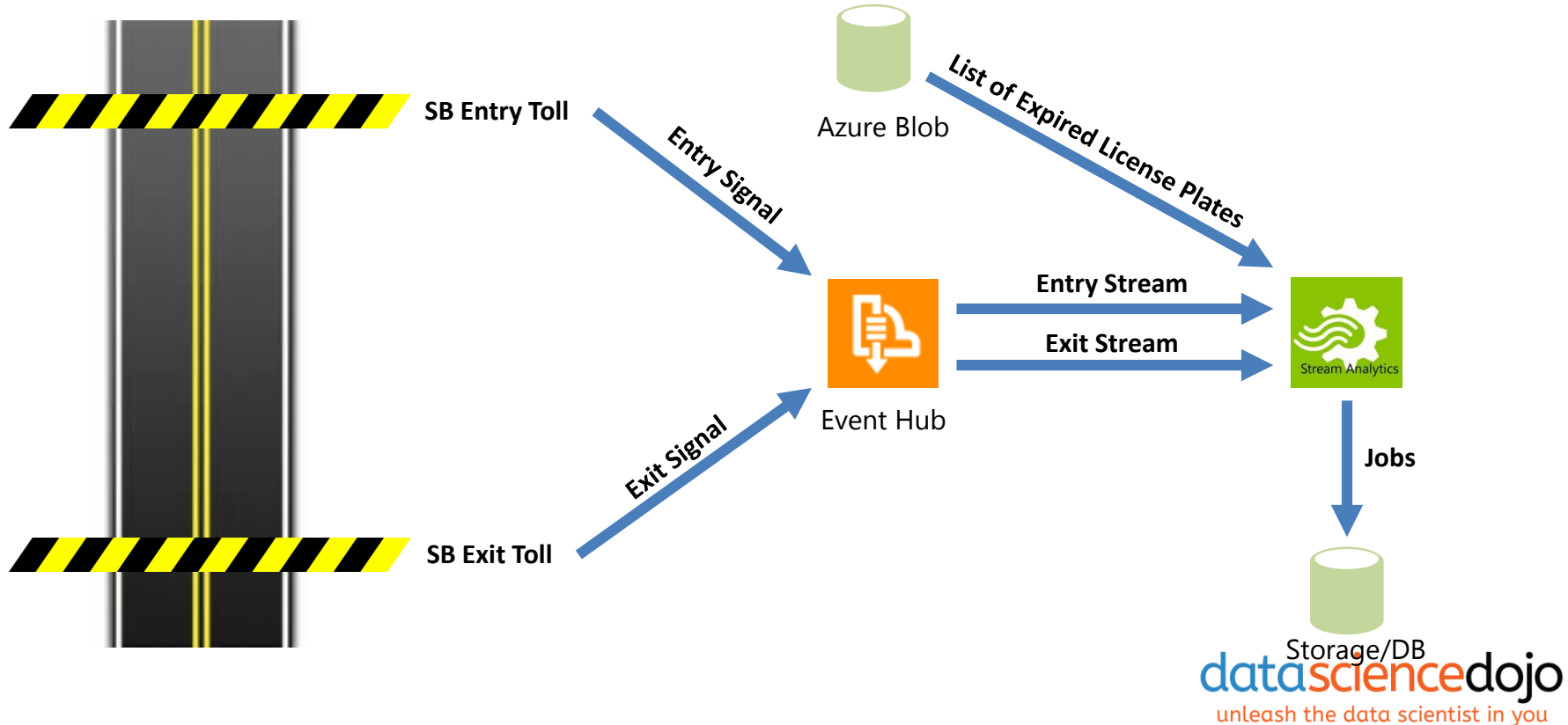


Hands-On Lab

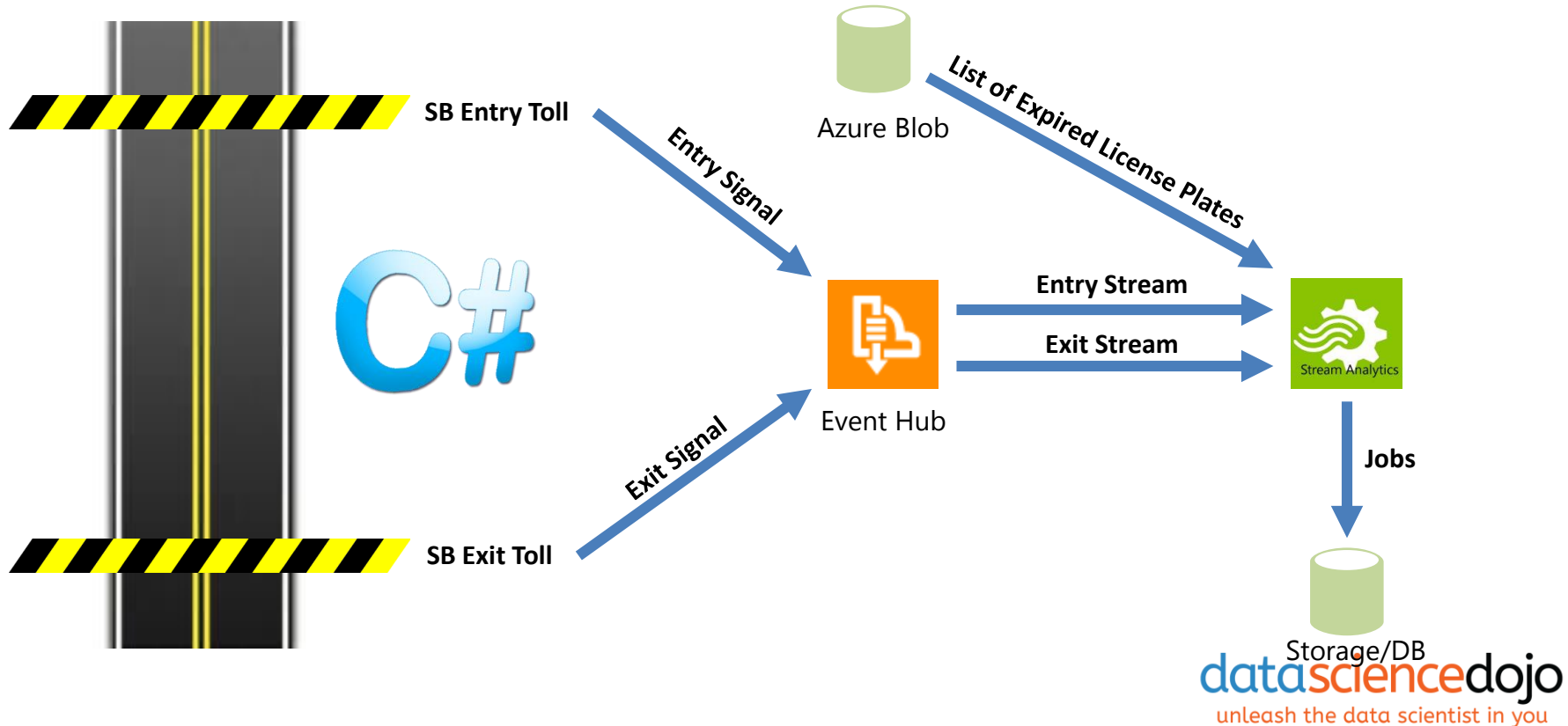
Tolls on I-405



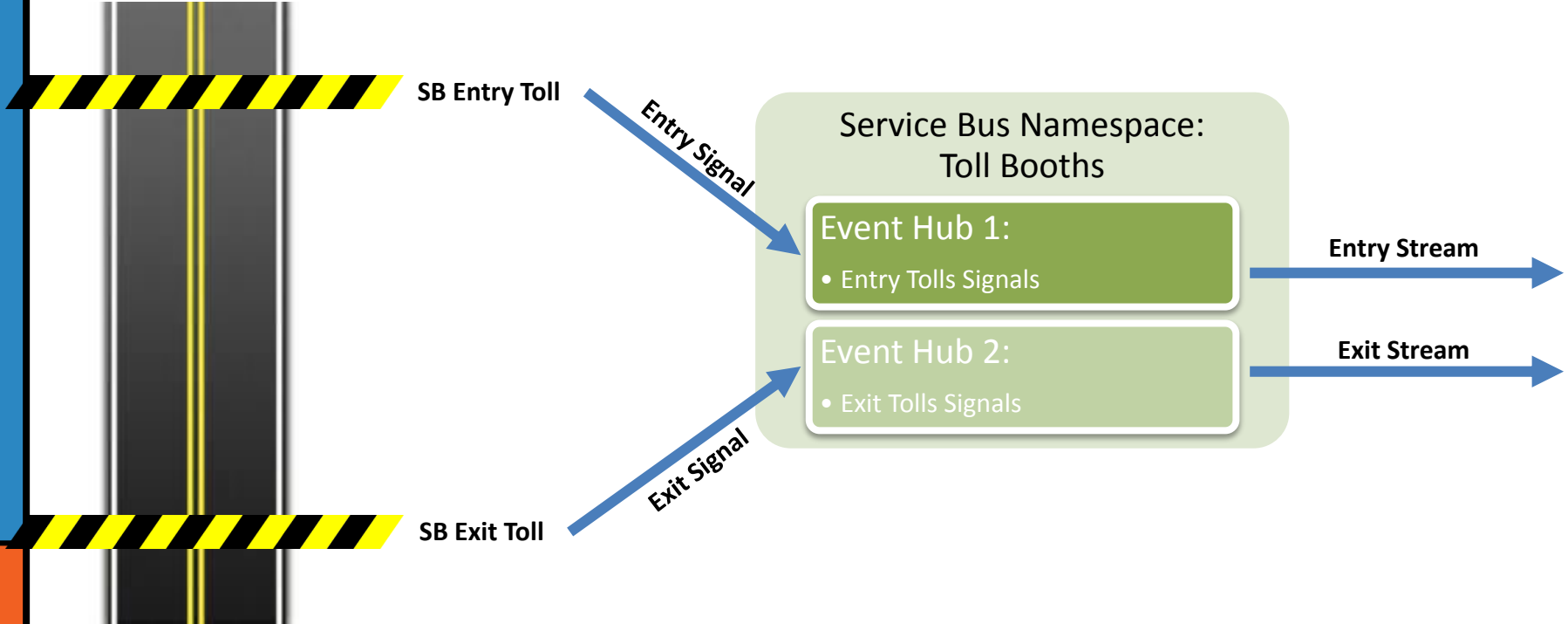
Automated Tolloed Road Demo



Streaming to Event Hub



Inside the Event Hub



QUESTIONS