Data Ingestion With Event Hub

Data Science Dojo

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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

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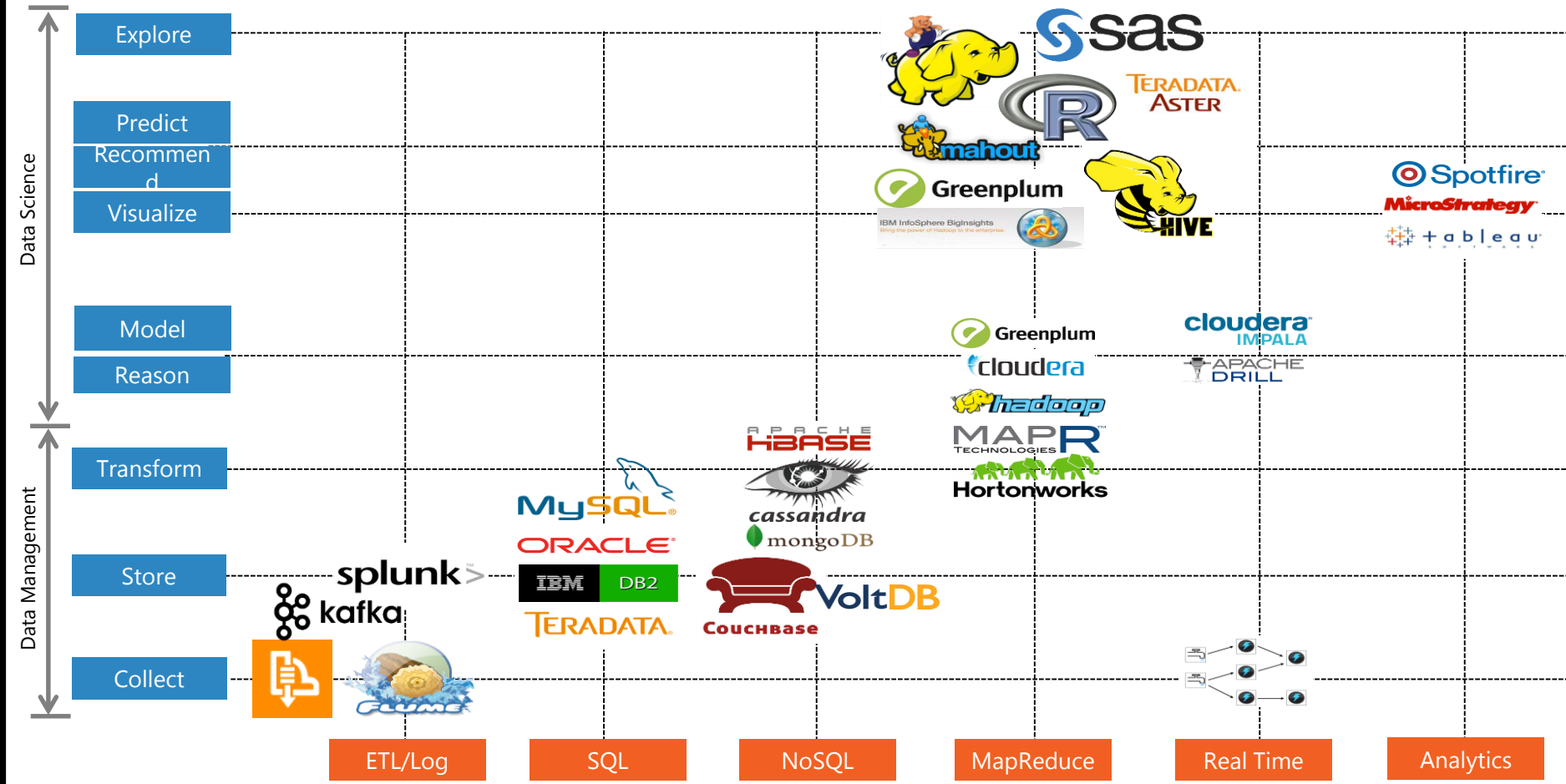

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The Post Office & Shipping Centers

- Tracks address changes
- Tries again tomorrow if send failed
- Holds packages in short term
  - Too many failed deliveries
  - Vacations
- Reduces complexity through specialization
- Optimized to send, receive, and temporarily house packages

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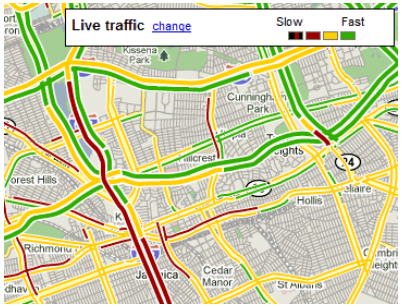
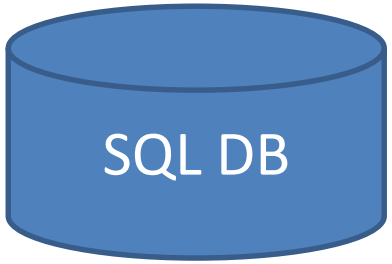
Hypothetical Scenario

Bureau of Transportation Statistics



Sends Traffic Data

Server: ABC, Port 123



Your Company

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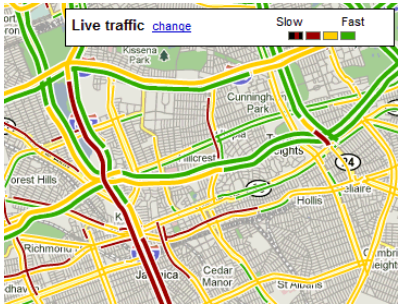
Things Change

Bureau of Transportation Statistics



Sends Traffic Data

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

SQL DB

Your Company

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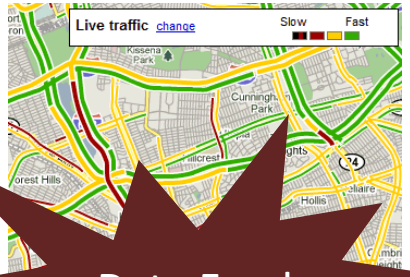
Interruption Occurs

Bureau of Transportation Statistics



Data Feed Interruption

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

SQL DB

Your Company

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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

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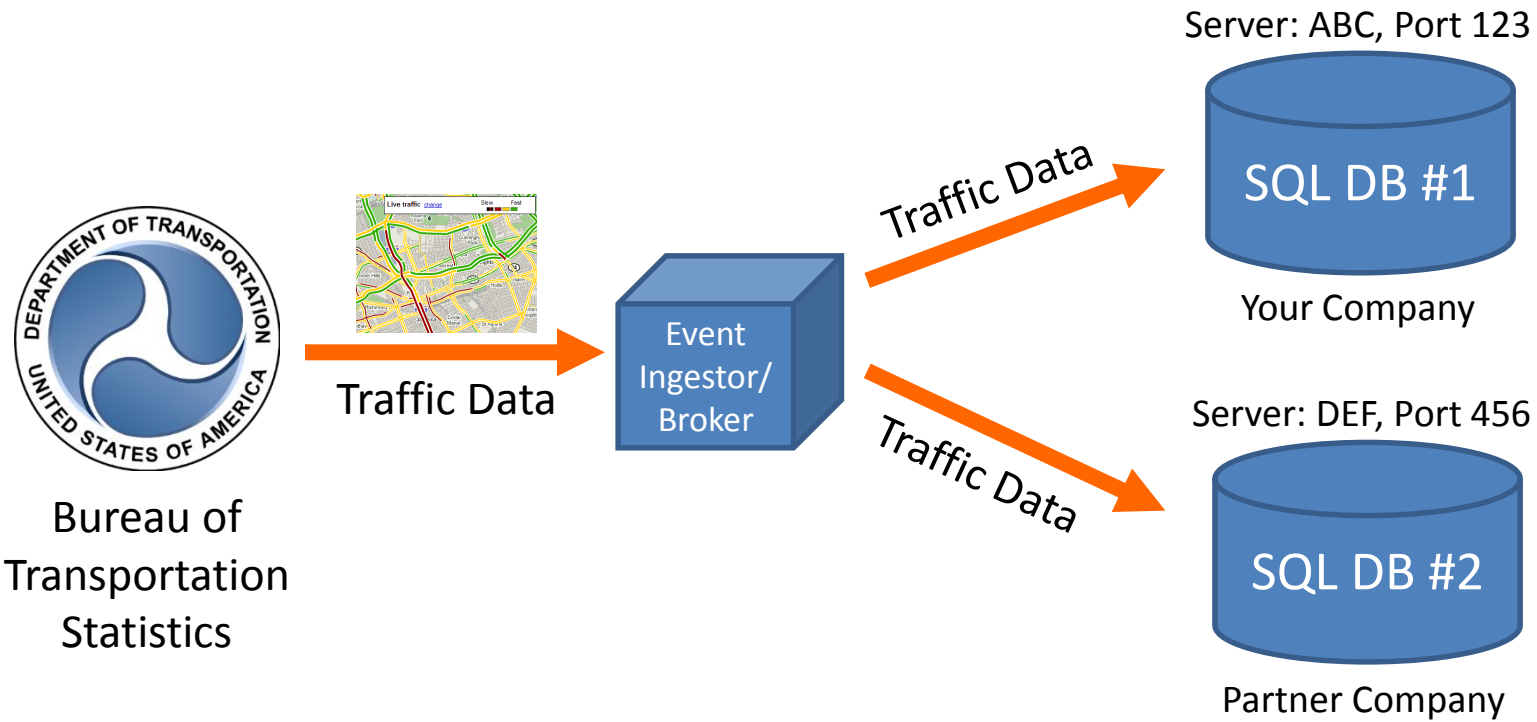
Preventative Solution: Middleware



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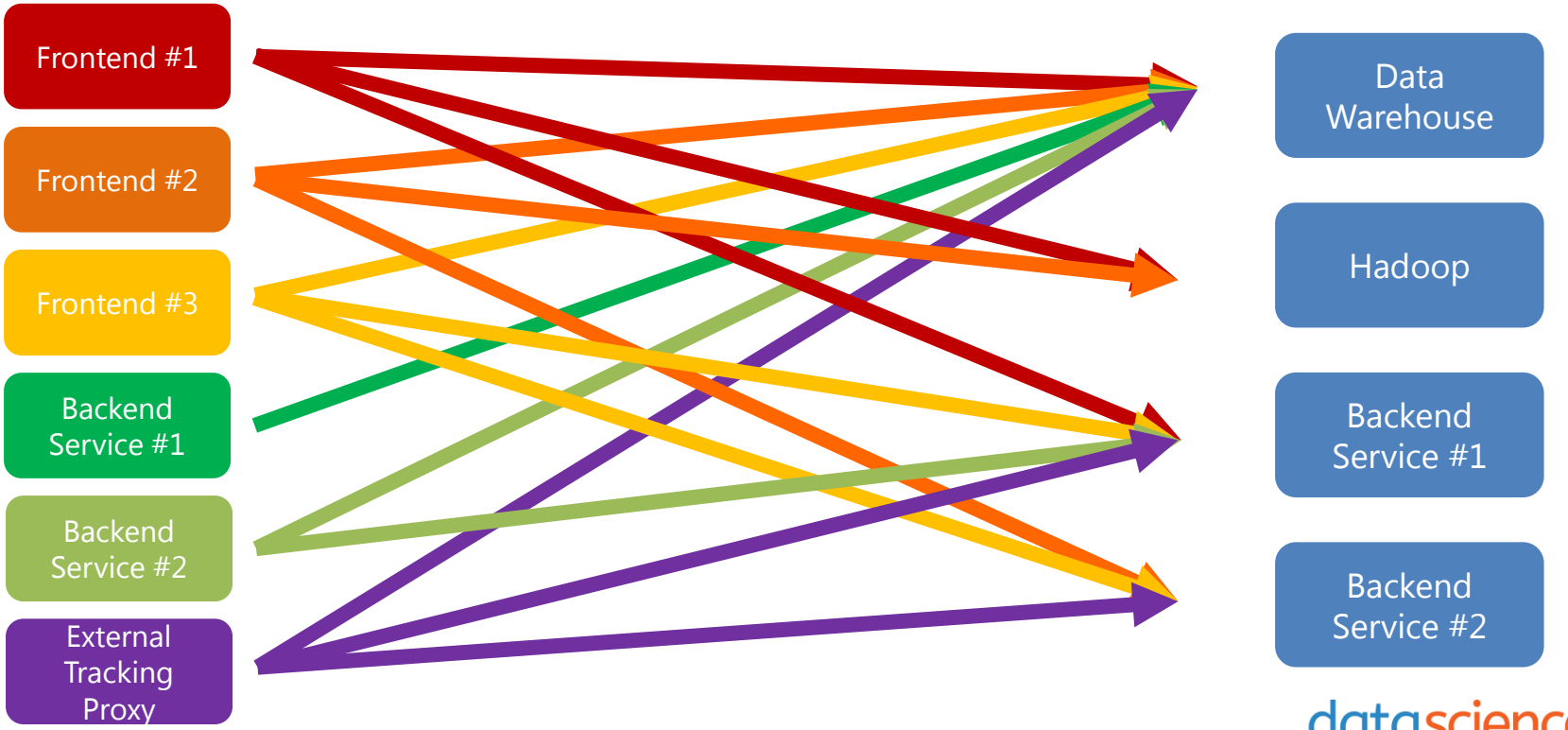
Data Pipeline Complexity at LinkedIn



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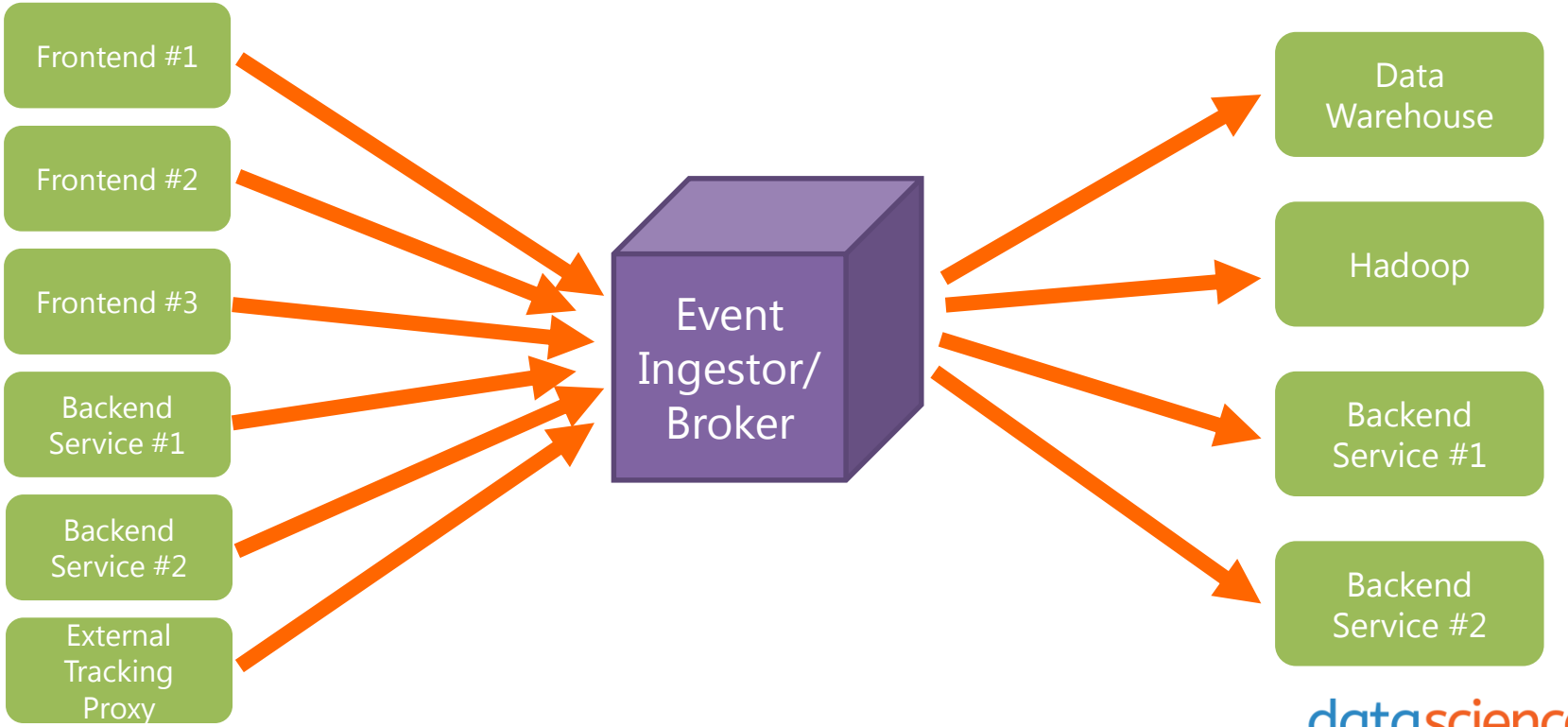

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Popular Event Brokers

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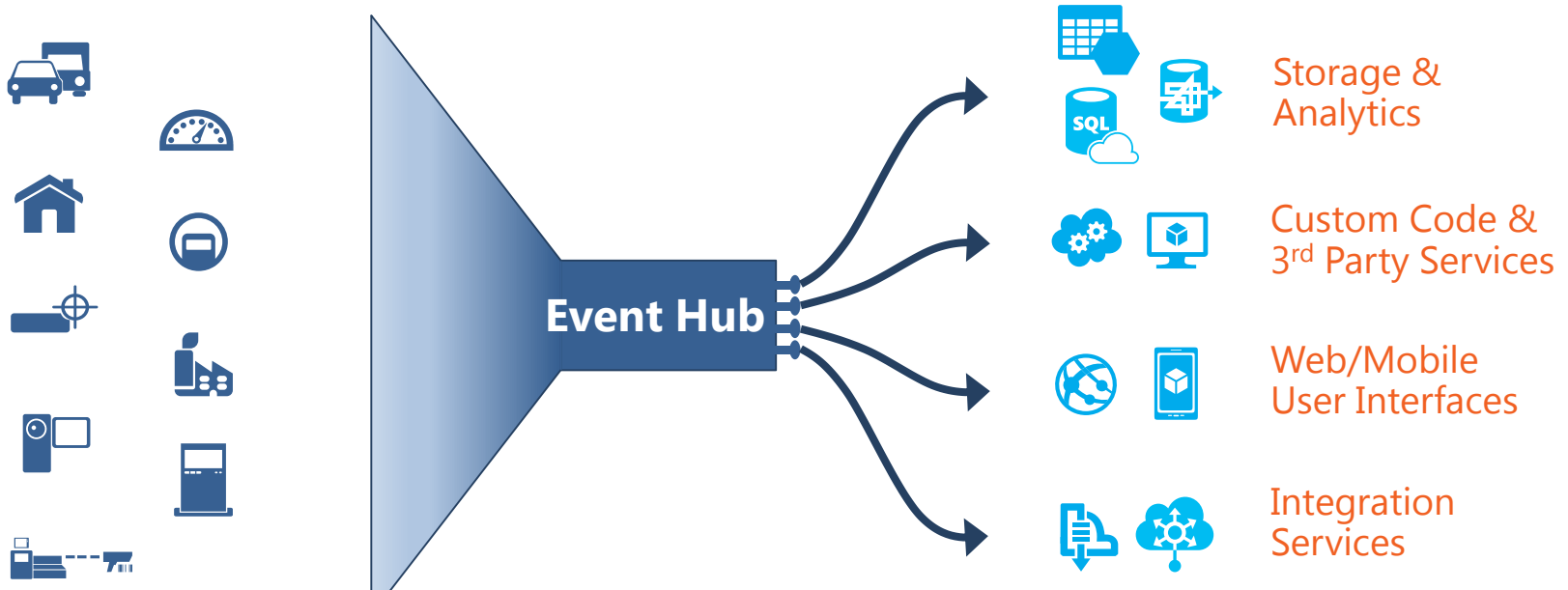
Event Hub for IoT: Big Data Ingestion



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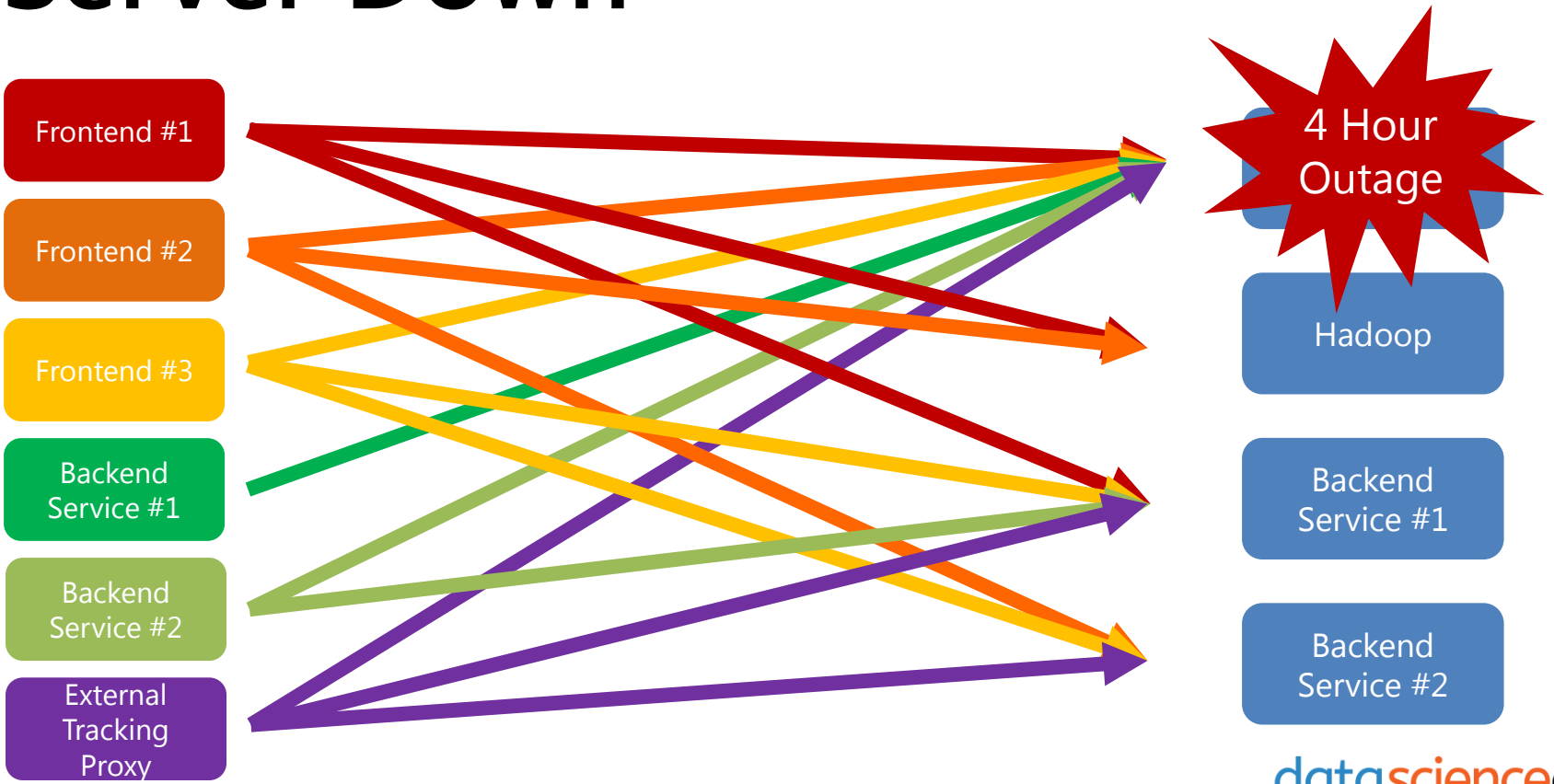
Server Down



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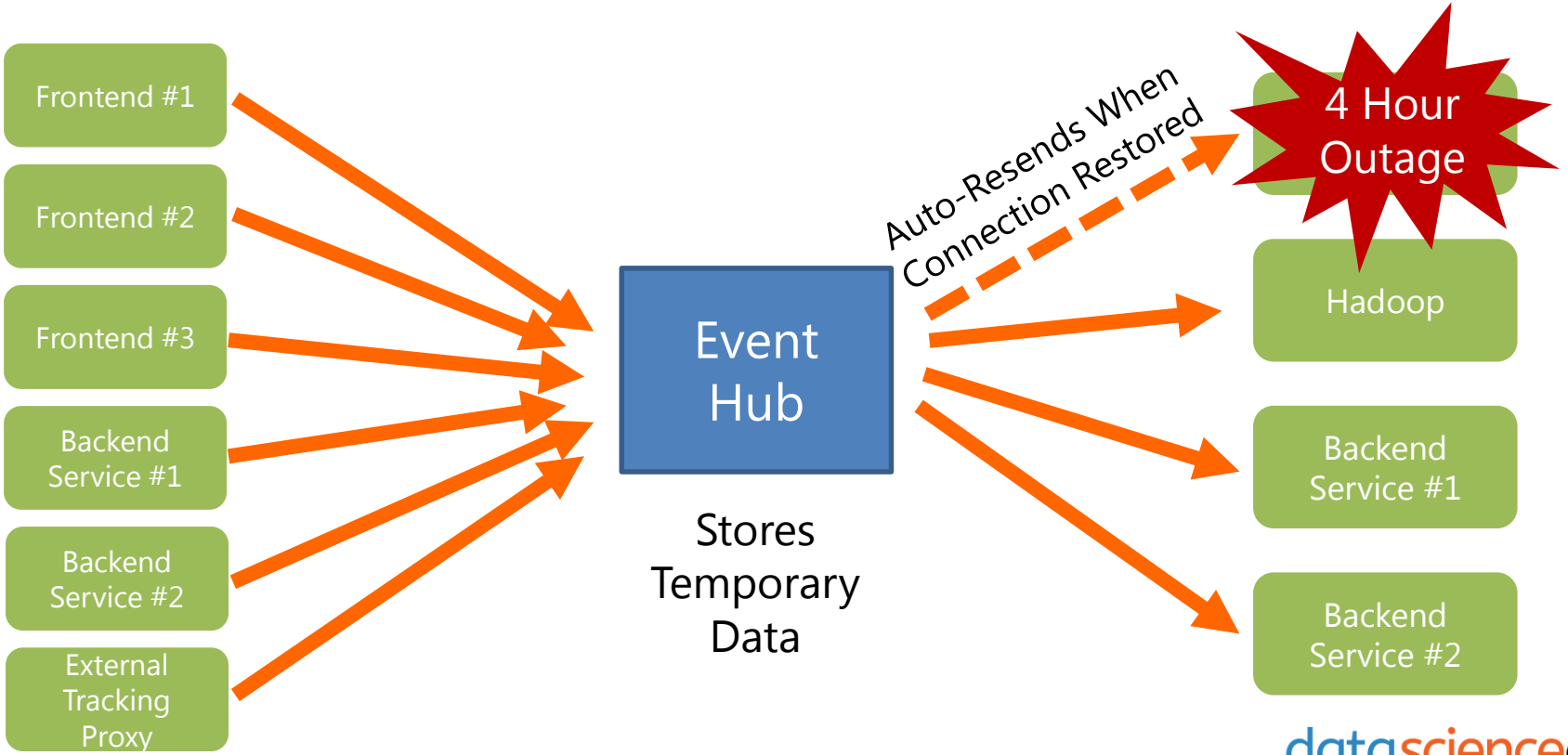
Temporary Storage



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Demo: Normal Scenario

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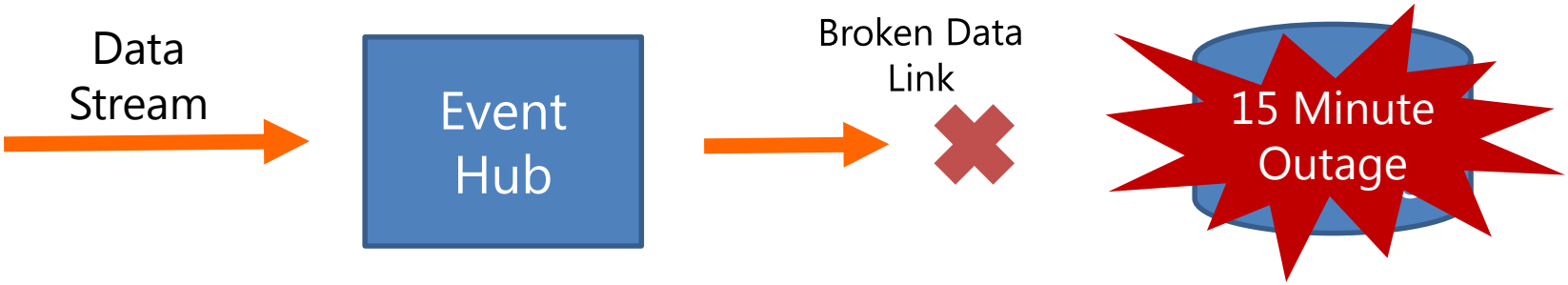
Demo: Output Downage



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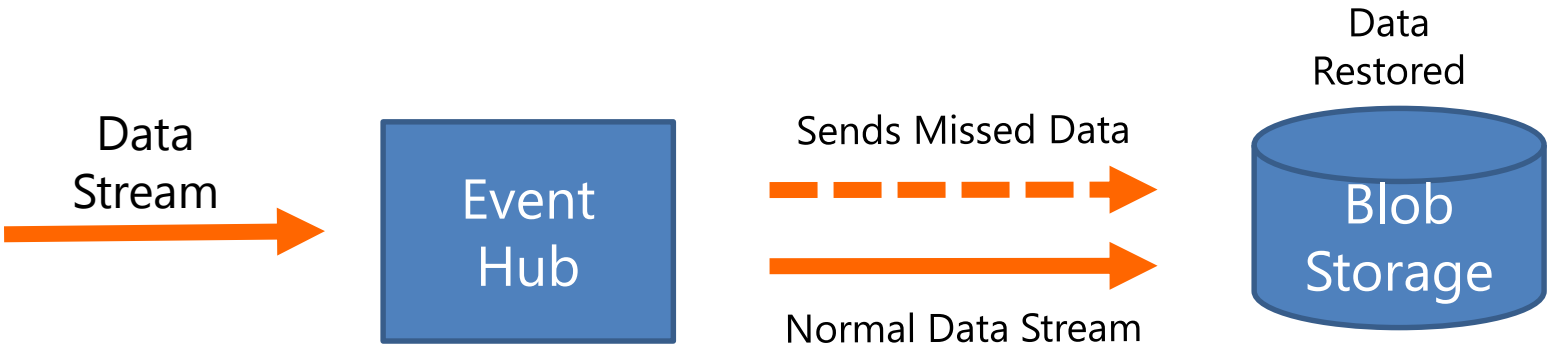
Demo: Output Restored



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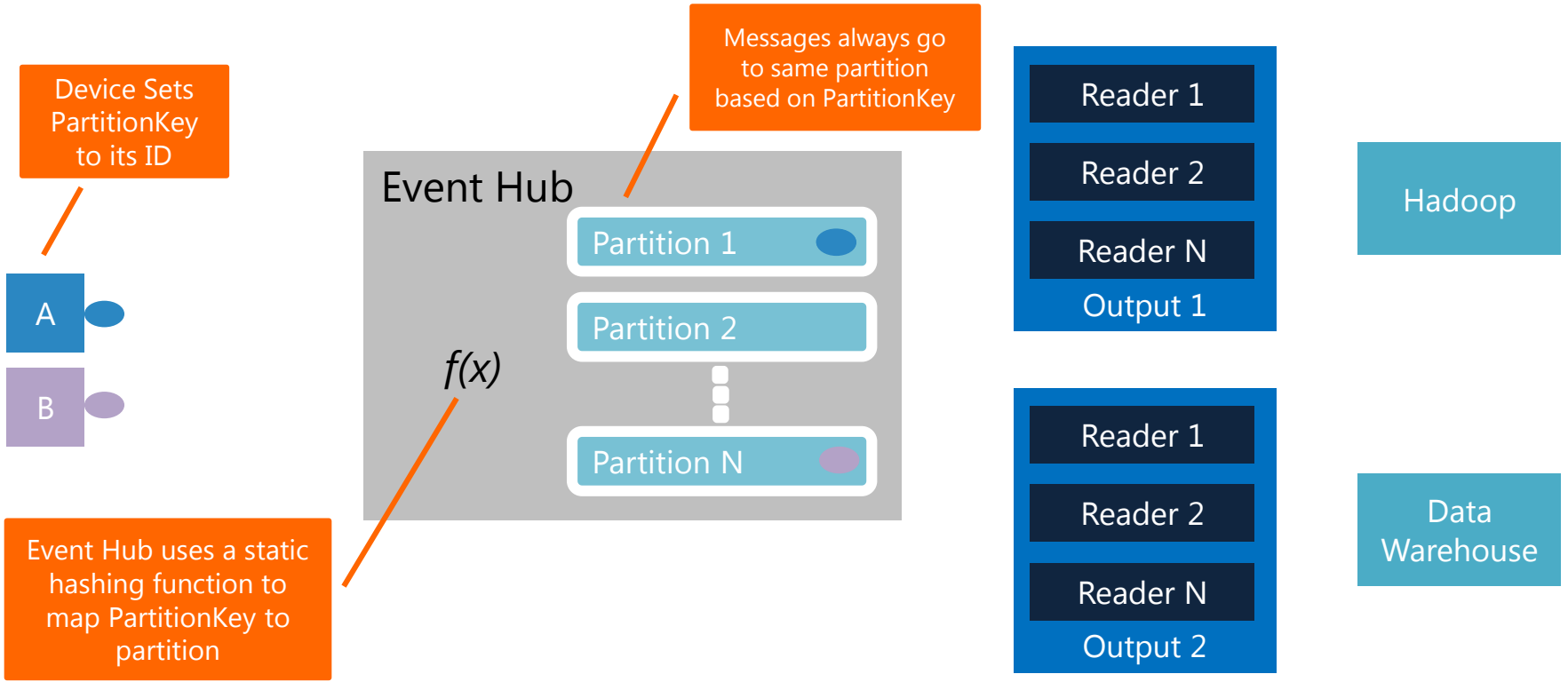
Event Hub, Stream Management



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Service Bus Namespace

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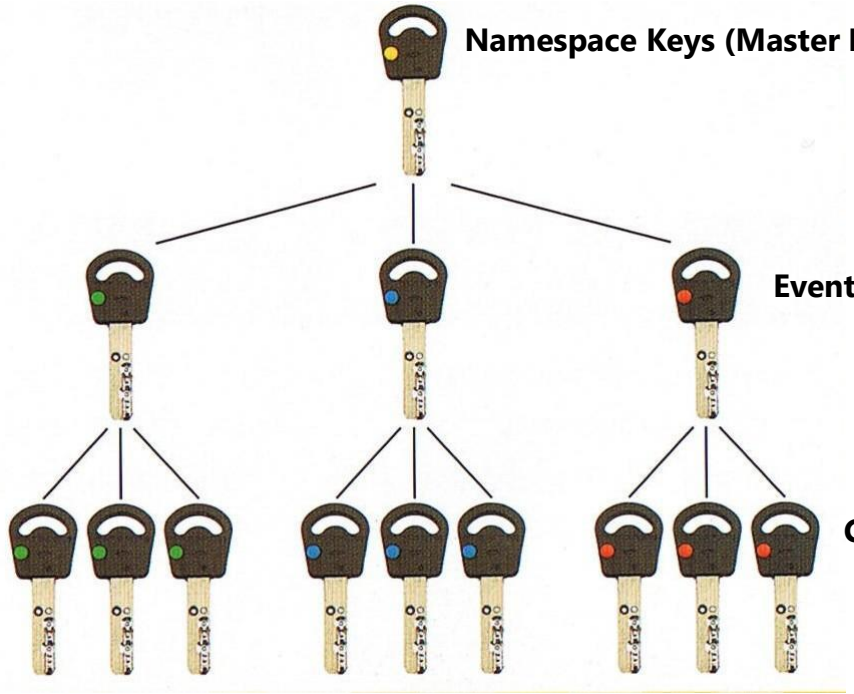
Access Rights, Policy, Keys



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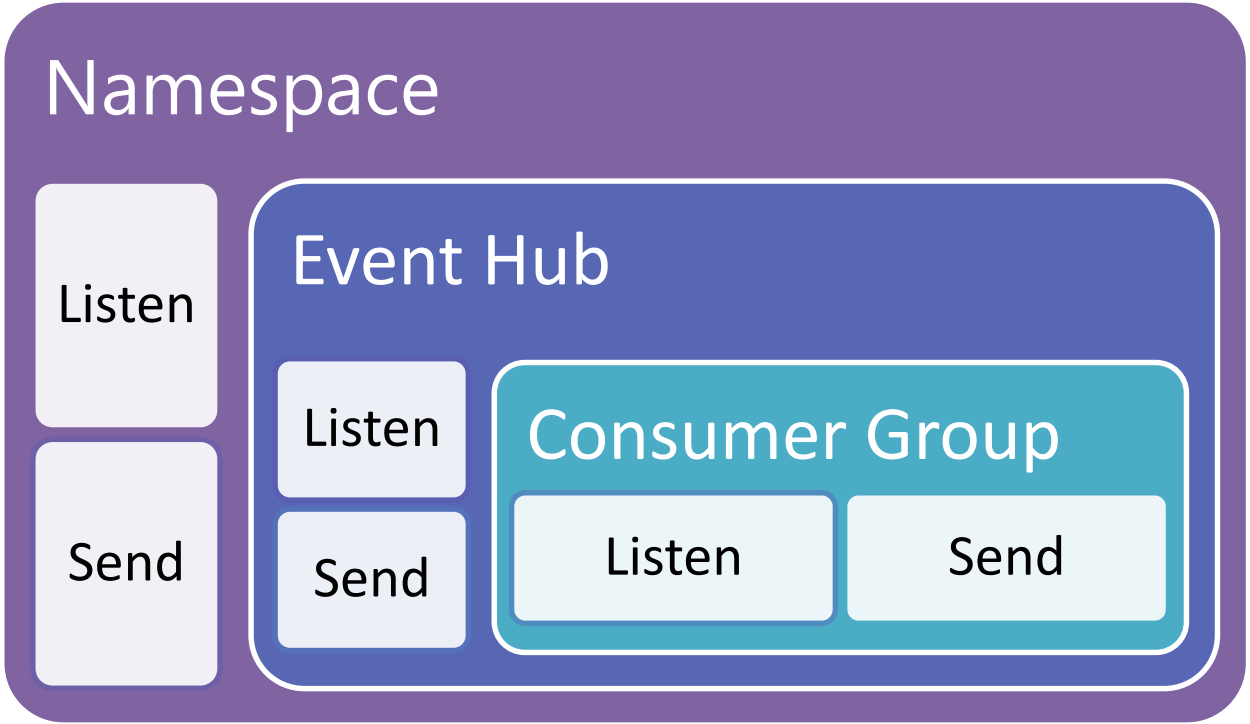
Access Rights



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Access Rights

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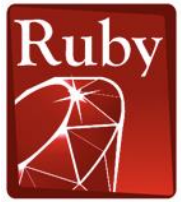
Supported Languages

Documentation Available

Supported But Documentation Still Pending



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Hands-On Lab

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Tolls on I-405

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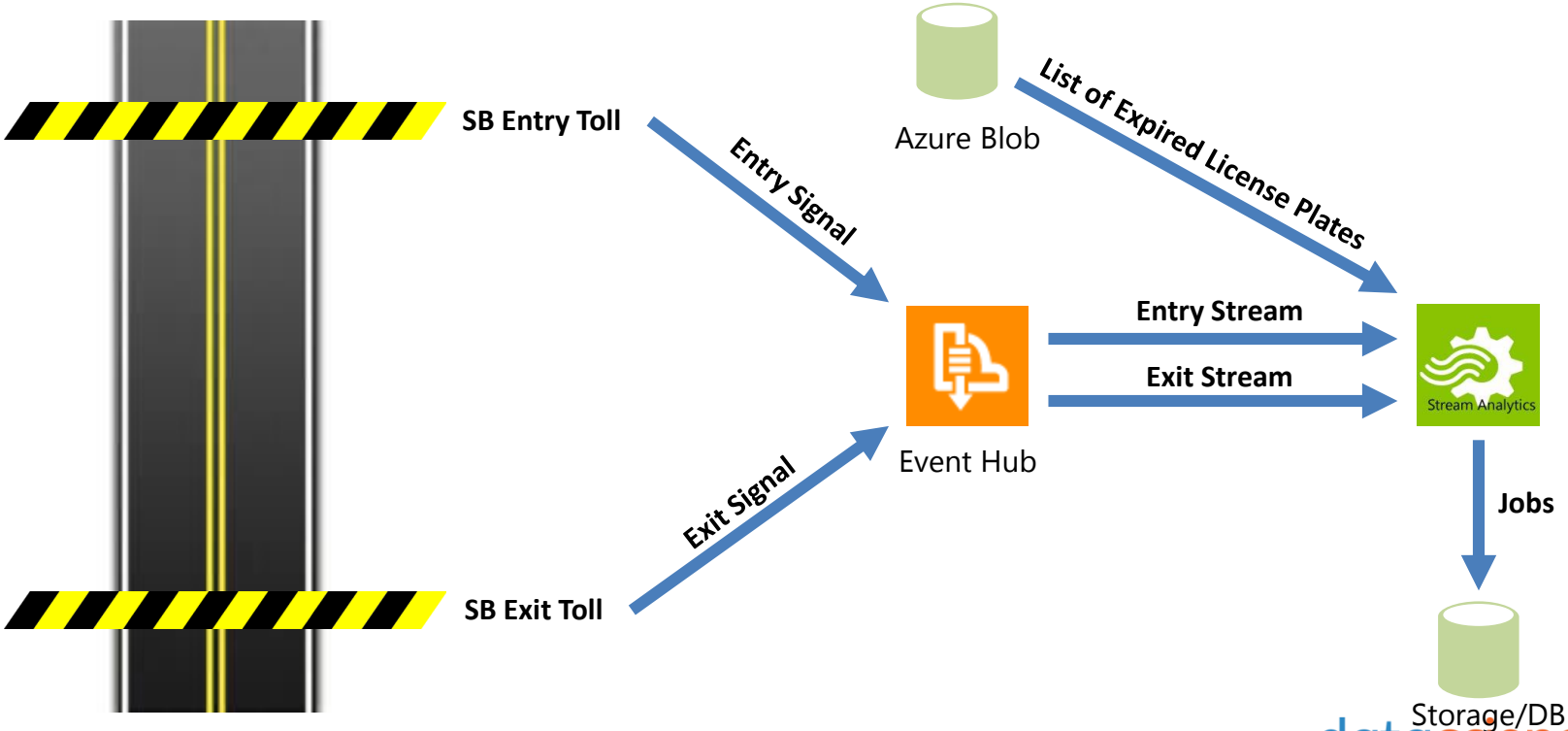
Automated Tolled Road Demo



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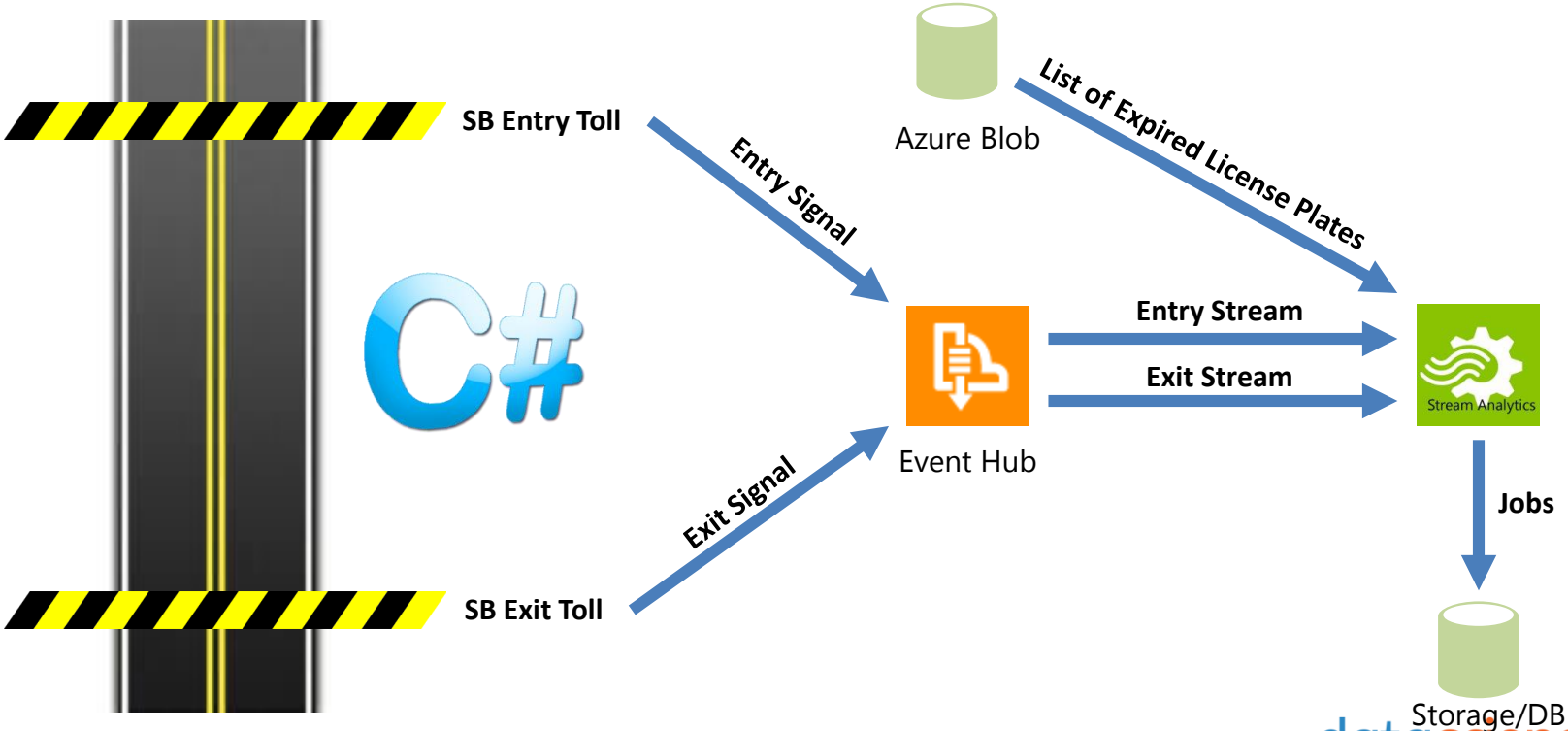
Streaming to Event Hub



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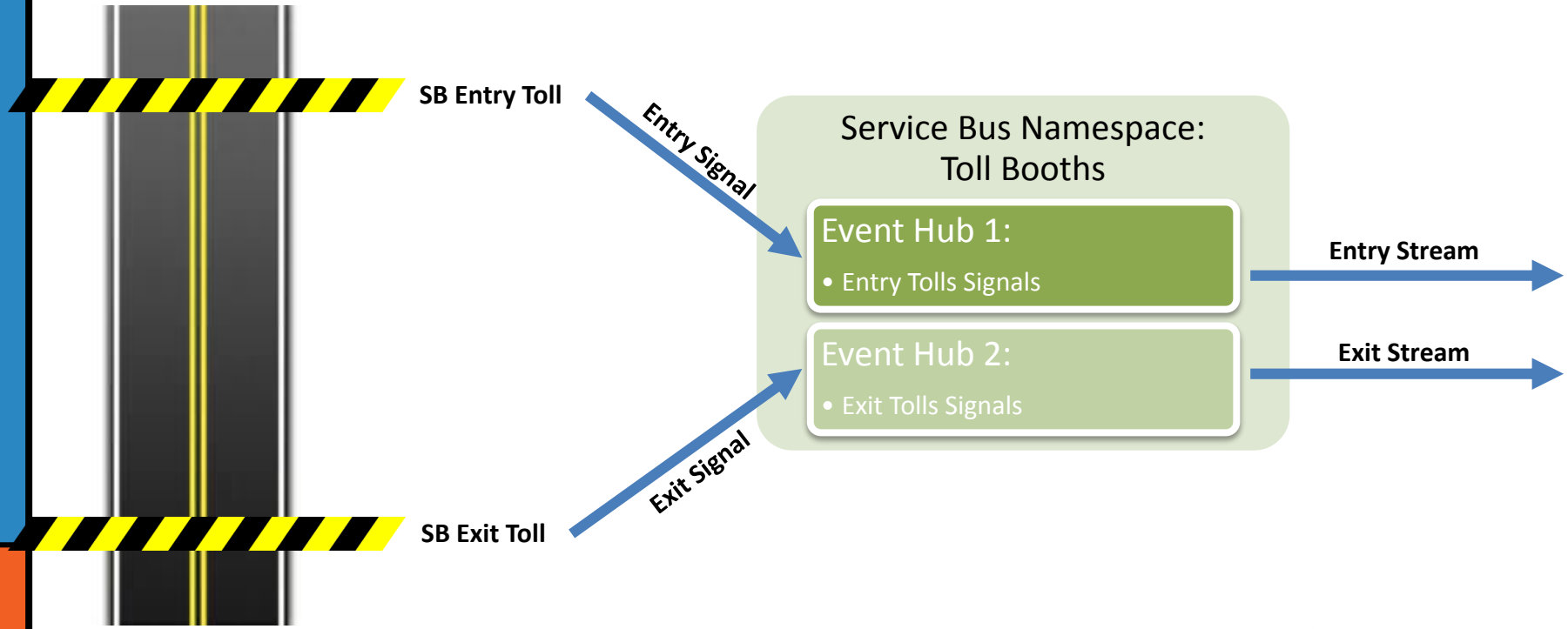
Inside the Event Hub



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QUESTIONS

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