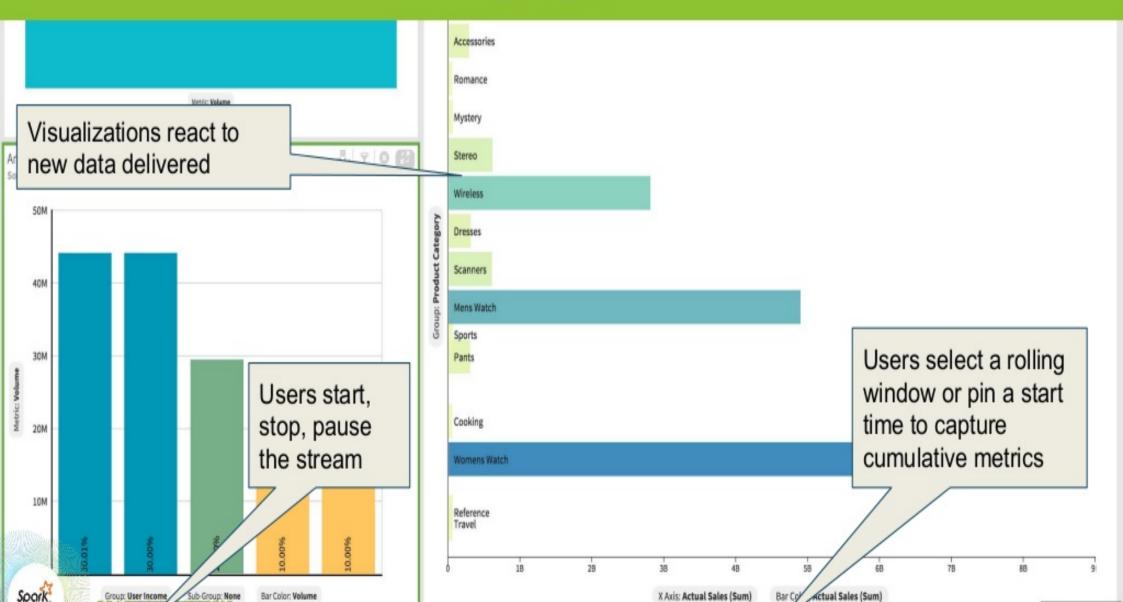
INTERACTIVE VISUALIZATION OF STREAMING DATA POWERED BY SPARK





Streaming @Zoomdata



Drivers for Streaming Data

Data Freshness

Time to Analytic

Business Context







Challenges

Time

Synchronization

Frequency

Order

Retention

Updates



Addressing streaming @Zoomdata

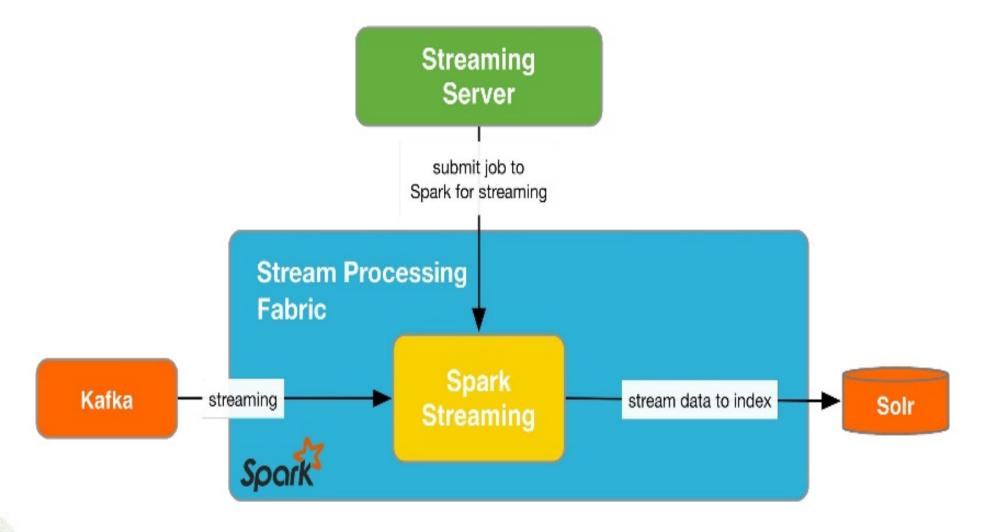
	Historical	Revised
Receive Data	JMS	Kafka
Manipulate Stream	Single JVM in Memory	Spark Streaming
Hold Data in Buffer	MongoDB	Pluggable
Interact with Data	Custom Code	Pluggable

Technology Cast

- The Stream Kafka, Kinesis, JMS
- Processing Fabric Spark Streaming
- Landing Area MemSQL, Solr, Kudu, Others

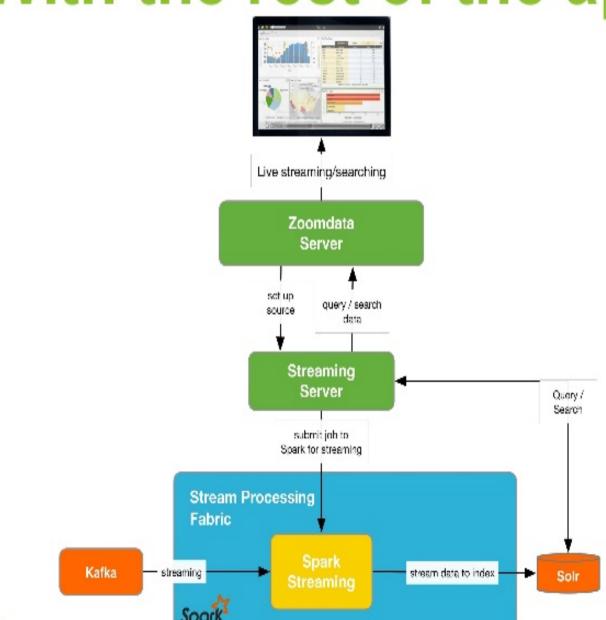


How it looks





With the rest of the app





Scale Out

Streaming Server

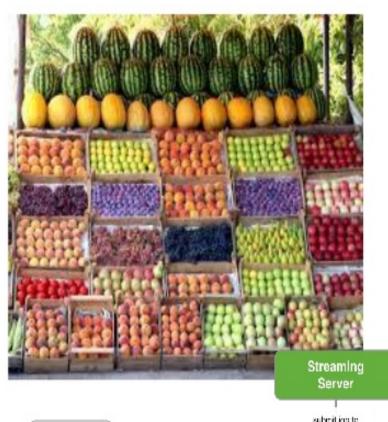
Kafka

Spark Streaming

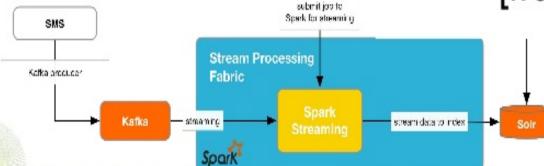




Let's put it all together



- Process fruit orders from all over
- Buyers make orders via an API
- API is SMS
 - [fruit] [quantity] e.g., apple 10



Demo



Benefits

- Contextual Expressiveness with Streaming Data
- Independent scalability (scale-up, scalearound)
- Expressiveness powered by Spark -- using Windowing (dataframe API with stream)
- DR COOP, other Data management concerns

Future Work

- Cross stream synchronization & fusion
- On-demand scale out and resource management via Mesos
- Schema evolution
- More extensible landing strategies



Questions



For more information contact:

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Come visit Zoomdata at our booth H2!

Thank You



Soork