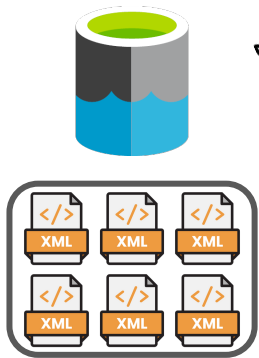


Data Lake

Repository of Raw Data
Without Schema Enforcement



- **Base** ~ 01379480000106
- **Container** ~ imais
- **XML Model Type** ~ CFE

Kafka Producer API



- Validate Container
- Understanding XML Model
- Decouple Tree Structure
- Apply Business Logic

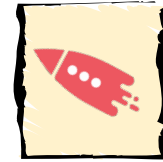
Schedule ~ Every 15 Minutes

Apache Kafka [Strimzi]



Split XML Parent & Child
Ingest using JSON Format
Using KEY – infCFE [Id]

KSQldb



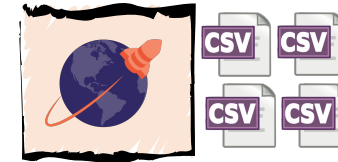
- Join Different Topics
- Apply Transformations
- Select Columns
- Output into a New Topic

Output Topic ~ ksqldb-stream-nfe-avro

Real-Time Processing



YugaByteDB



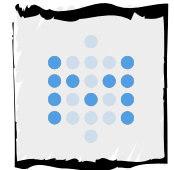
Insert Data into a Table
Apply View to Encapsulate Logic
Auxiliary Tables from SAS

Table ~ enriched_nfe
View ~ vw_enriched_products_compare_market

Real-Time Ingestion



Metabase



Real-Time Analysis



Monitoring

Prometheus, Alert Manager & Grafana