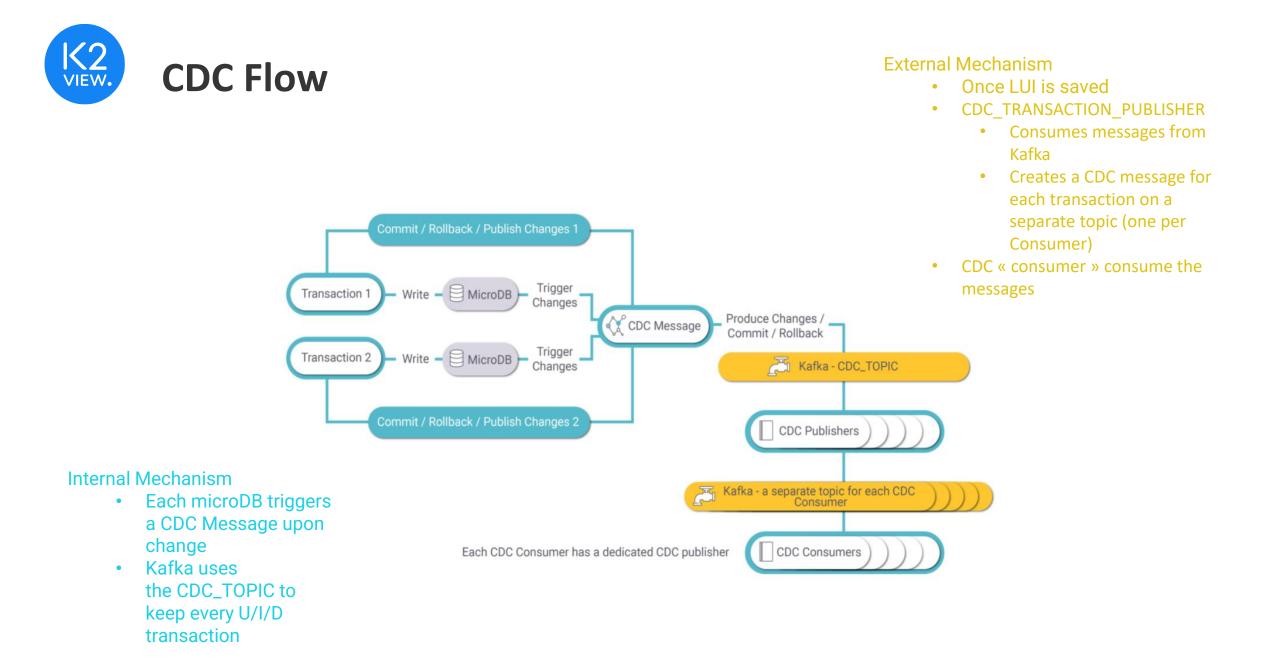
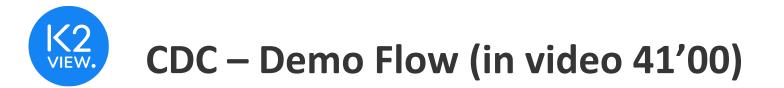


Fabric CDC_TRANSACTION_PUBLISHER job publishes CDC changes to Kafka. Each CDC consumer has its own Kafka topic. Fabric CDC_TRANSACTION_CONSUMER internal job consumes the Search topic from Kafka and updates Elasticsearch. Other consumers must create their own consumer processes to consume Kafka CDC messages.





- Maintains subscribing systems with fresh data updated as soon as the data changes in one of the LU Instances
 - constantly tracks changes in a source database
 - immediately updates the target database
 - uses stream processing to ensure instant changes
- Flow (Check Environment)
 - Run a Kafka / Zookeeper environment
 - from windows
 - Create a topic + Produce & Subscribe terminals
 - Test topic
 - Publish/subscribe example
 - Send/receive messages

CDC – Flows & Updates (in video 44'05'')

- Flow 2 Publish all changes to a maintenance Salesforce tables
 - Flow CDC_ConsumerToSalesForce
 - 1. Generate a change to a specific LU Table
 - 2. Show the change propagation via Broadway flow
 - 2 different updates from 2 different fields
 - 3. Publish to S/F

Elastic Search – another use case for CDC (in video 49'50'')

- Elastic Search
 - Uses Kafka to enable cross-instances searches
 - Stores and processes data, typically large amounts of data
- Straightforward
 - Define E/S as an interface
 - Run Elastic Search Queries
 - Define search fields in the schema
 - **keyword**, enables a search by this column. (enables searching for an exact match case sensitive of the searched value).
 - date, enables a search on a date column.
 - data
 - Search templates



- Clean all instances and execute a search
 - Clean E/S indexes cache
- Migrate x instances and start executing searches
 - From Fabric Command line

search lutype=Customer TABLES=ADDRESS '{ "query": { "query_string": { "fields": ["CITY"], "query": ""} }}'

- Different "Search Options"
 - Defined as keyword and not data to return exact matches
 - search lutype=CUSTOMER tables=ADDRESS '{"query": {"match_phrase" : { "CITY.keyword": {"query" : "New York"}}};