Virtusa is building a Streaming Real-Time Cards Data Platform for Transactions, Account Balance, Activity, Authorization & Rewards supporting the Digital experience

Challenges

- Card Services supplies to internal channels through file transfers and MQs which takes too long for Bank to stand up data feeds to internal channels

- If a data source system or a link to a data source system is down, dependent systems will not have access to the data they need. There is no single solution that can be leveraged by internal channels via publish and subscribe

Solution

- IBM CDC for capturing changes in the source systems

- CDC Management Console for configuring Data stores and Source-to-Target mappings

- Directly use Apache Kafka as target for sources which require no or simple transformations

- Spring Boot Application for sources which require transformation.

- Auto scaling of the Applications based on load requirements in the Private cloud

- Data security maintained using Kerberos,, SSI / TSL and PII data encryption

- ~ 35 million messages in batch loads in a span of 30 – 60min

- Up to 20,000 TPS during batch loads

- Up to 1200 TPS during Real time loads

Value delivered

- Reduced the redundant feeds for multiple consumers and reduced the operational overhead

- Enhanced Data completeness, consistency and integrity

- The services are deployed and scaled independently involving respective DevOps teams

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