Gluesync

MOLO17

CUSTOMER SUCCESS

Leading Indian financial institution steps into the right-now economy

Knocking out Debezium to establish real-time data pipelines from Oracle® 11g Release 2 to Aerospike & Kafka



A forefront player in India's banking industry has revolutionized its data handling capabilities with Gluesync. This collaboration marks a significant leap in integrating Oracle, Aerospike and Kafka, enhancing real-time data access and operational agility with the aim of streamlining processes and elevating customer experiences, setting a new benchmark in technology-driven banking solutions.

TECHNOLOGIES INVOLVED

Oracle 11g Release 2
Aerospike 6
Kafka

FEATURES

Real-time sync
Offloading

VOLUMES

10 TB unique data volume

> **Gluesync is one of the most promising tools I have used for data sync between heterogeneous datastores. Be it relational or non-relational databases or streaming platforms, Gluesync empowers data engineering solutions profoundly.**
>
> **Sr. Engineering Manager** at the bank

The client

A leading Indian private-sector bank with a comprehensive retail banking offering.

It offers a wide range of financial products and services, including savings accounts, credit cards and various loan options.

It has a strong commitment to customer-centric services and to leveraging technology for innovative banking solutions.

Project goals

The bank was looking for a solution to fix its bank account reconciliation processes, especially for micro-loans, which could not be completed by the end of each day due to the low transaction processing rates of the existing architecture based on Debezium and Kafka.

Already an Aerospike user, the bank set two main goals for the project:

- Cut transaction processing times by at least half;
- Avoid data loss while sourcing data from the Oracle database.

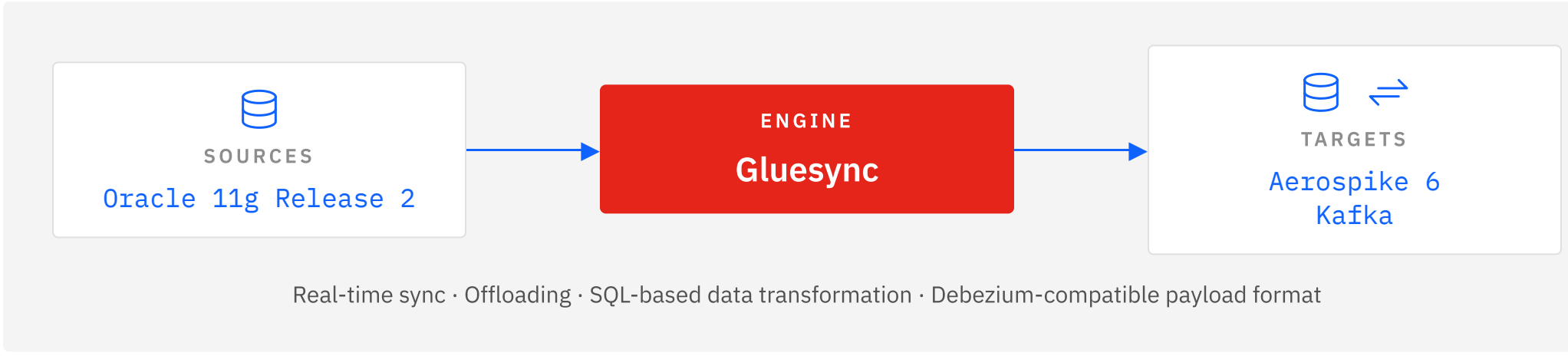
Why MOLO17 Gluesync was chosen

The bank's technical team was looking for a Change Data Capture solution that would achieve the following objectives:

- Support for the Aerospike NoSQL database;
- Ease of building data pipelines without the need to write custom code;
- Support for the Oracle 11g Release 2 database with no additional licensing;
- High throughput;
- Ability to extend its usage to target Kafka and other databases as well.

The bank's team was already using Debezium as a CDC tool and Kafka companion, but they were not happy with it: after 4 years of service, it required a dedicated team to babysit it due to data loss and poor performance.

When they experienced the immediate responsiveness of Gluesync and its ability to perform data transformation through SQL queries, there were no second thoughts.



Results

150+
tables in accurate, real-time data pipelines

10 TB
of unique data volume

5 s → 15 ms
avg. latency per chunk of 1,000 transactions

On deploying Gluesync, the team was able to complete an accurate set of data pipelines covering more than 150 tables, many of them involved in dozens of SQL JOINs, simultaneously pushing data into both Aerospike, set to become the operational datastore for the new set of apps, and a Kafka cluster for backwards compatibility with other existing services.

The team was able to swap from Debezium to Gluesync in a snap thanks to its seamless integration with Debezium's message (payload) format.

Thanks to Gluesync, the bank has been able to achieve:

- Ability to plug & play new data pipelines to grow Aerospike use cases;
- Real-time data sync with a low-to-no Oracle resource footprint;
- Data flowing with ultra-low latencies: from an average of 5 s to 15 ms per chunk of 1,000 transactions.

> "We got phenomenal support from the MOLO17 team, and after trying it for the first time in our live environments we had no second thoughts: it is our tool of choice. We can't wait to start using it for new use cases on our MS SQL Server and PostgreSQL databases..."
>
> **Head of Digital Engineering & CX** at the bank

ABOUT MOLO17 GLUESYNC

Gluesync delivers real-time, two-way, event-based data replication between major RDBMS, NoSQL databases and event streaming services. Its container-based architecture deploys easily, with a low-resource footprint and no oversight required.

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