

ORACLE®

Oracle NoSQL Database

4.0 Features

www.oracle.com/nosql

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Recently Added Features



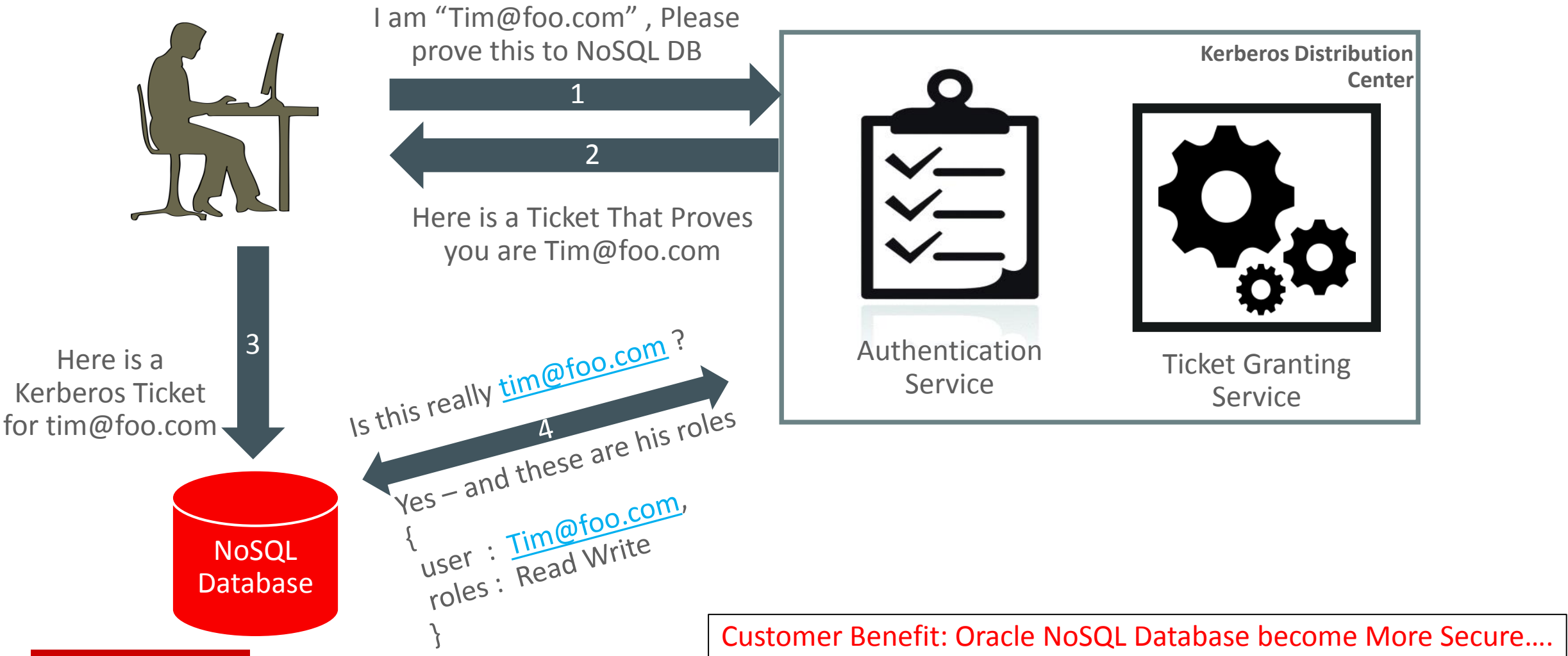
Oracle NoSQL Database –3.5 – Q4 CY2015 Release

- Data Center Failover and Switchover
- Kerberos Security – Standardized security for user authentication
- Bulk Put API – new API that speeds up storing data into the database.

Data Center Failover and Switchover

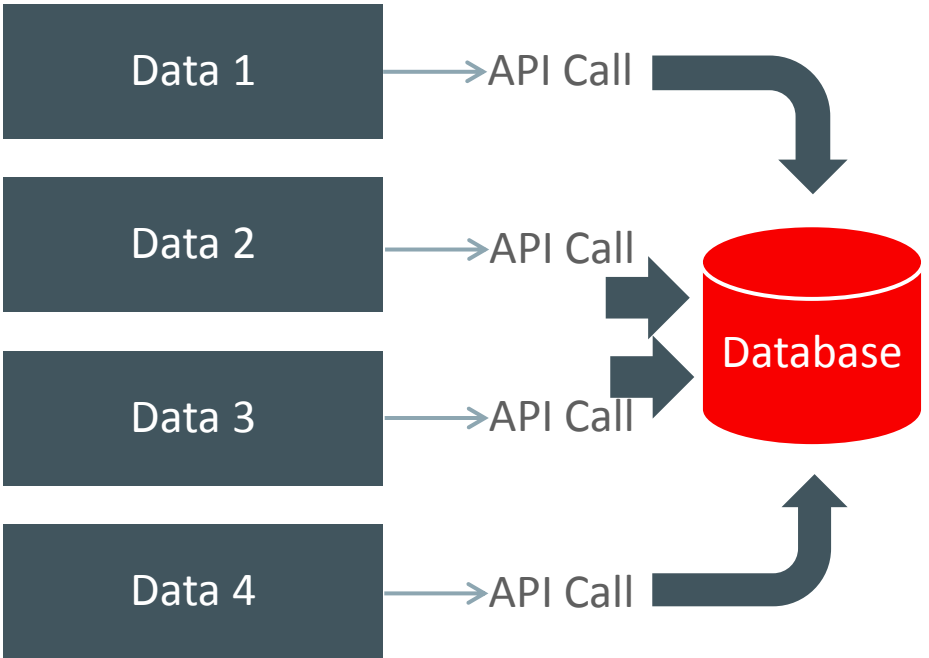
- Failover is unplanned change to one or more primary zones
 - In-flight, non-replicated updates may be lost
 - Adds the ability to redefine *primary VS secondary* zones to maintain write quorum
 - Failed zones part of topology but made offline. Can be brought back once the fault is recovered
- Switchover is a planned configuration change to take one or more zones on- or offline, or change their type
 - Zero data loss
 - Switchover waits until in-flight updates have been replicated
- New Admin CLI commands to handle these operations
- Requires intervention by cluster administrator

Oracle NoSQL Database – Kerberos Integration



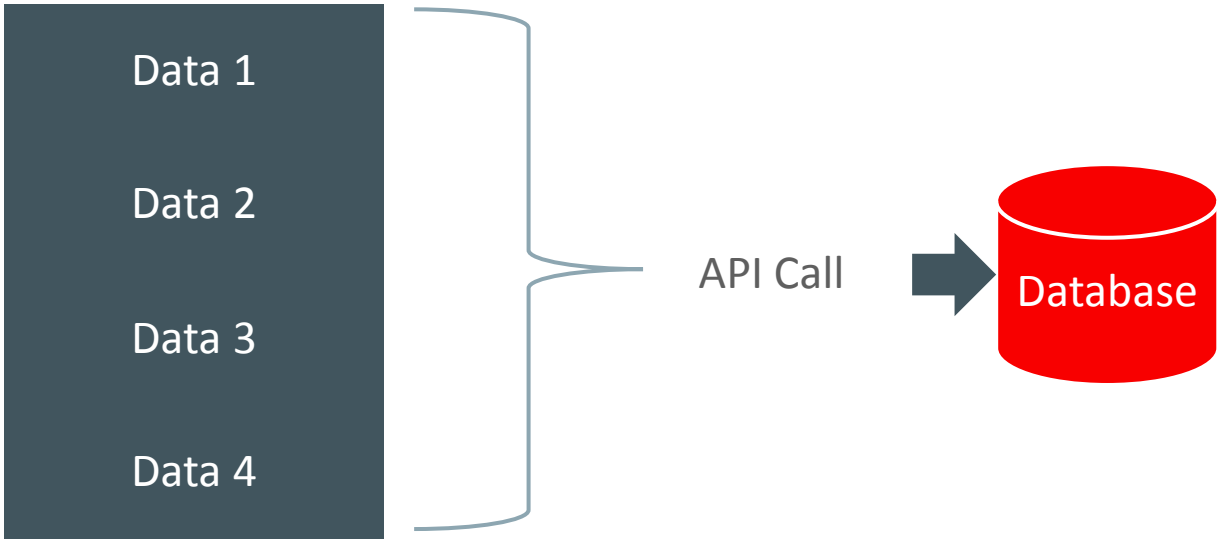
Oracle NoSQL Database – Bulk Put API

Serial Data Store



Total = 4 API Calls

Bulk Put API



Total = 1 API Call

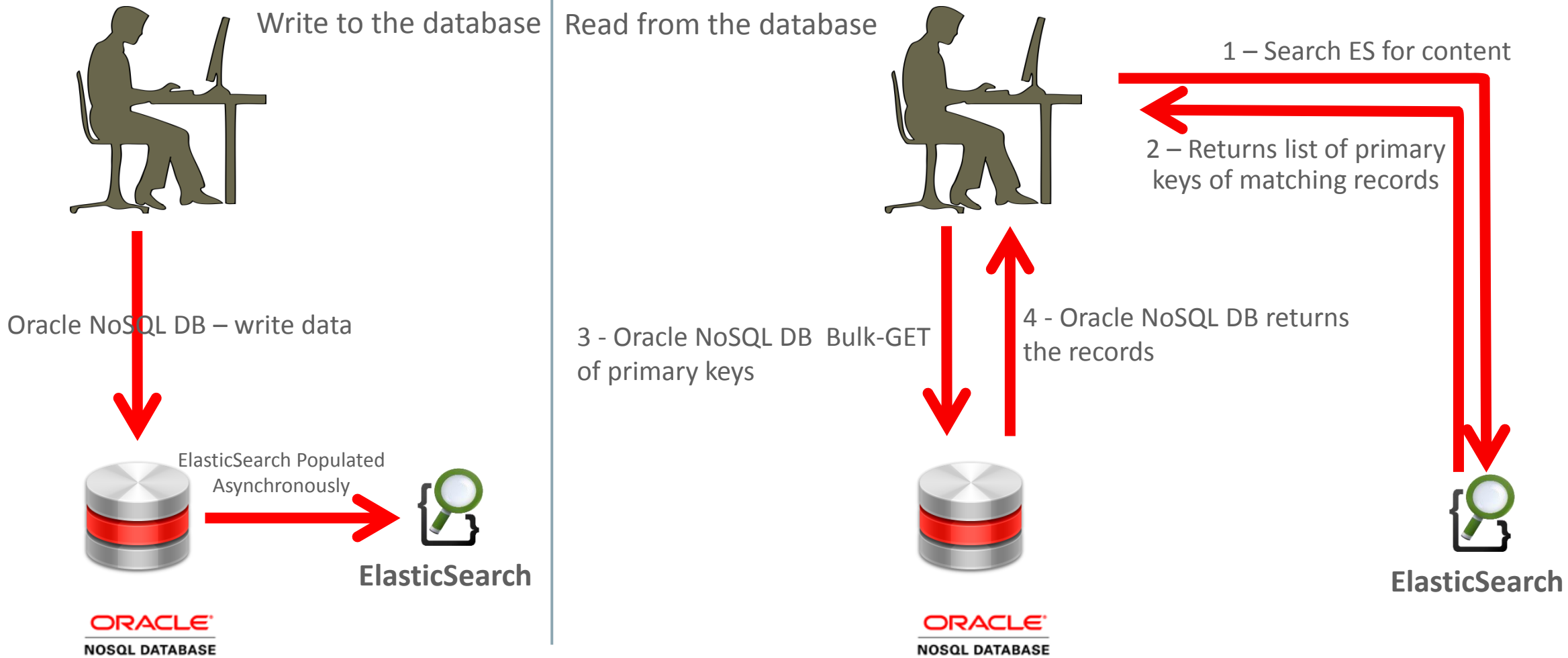
Customer Benefit: Faster Storing of Data



Oracle NoSQL Database – 4.0 – Q1 CY2016 Release

- Full text search – Ability to perform fuzzy searches over the data.
- Time-to-live – efficient aging out of “expired” data – common IoT requirement.
- SQL Query – Declarative query language for developers more comfortable with SQL than API level access.
- Predicate Pushdown – ability to process predicates from Big Data SQL in NoSQL DB nodes – improved performance and scalability.
- Import/Export – Easy to use method for saving NoSQL database.

Oracle NoSQL Database – Full Text Search (FTS)

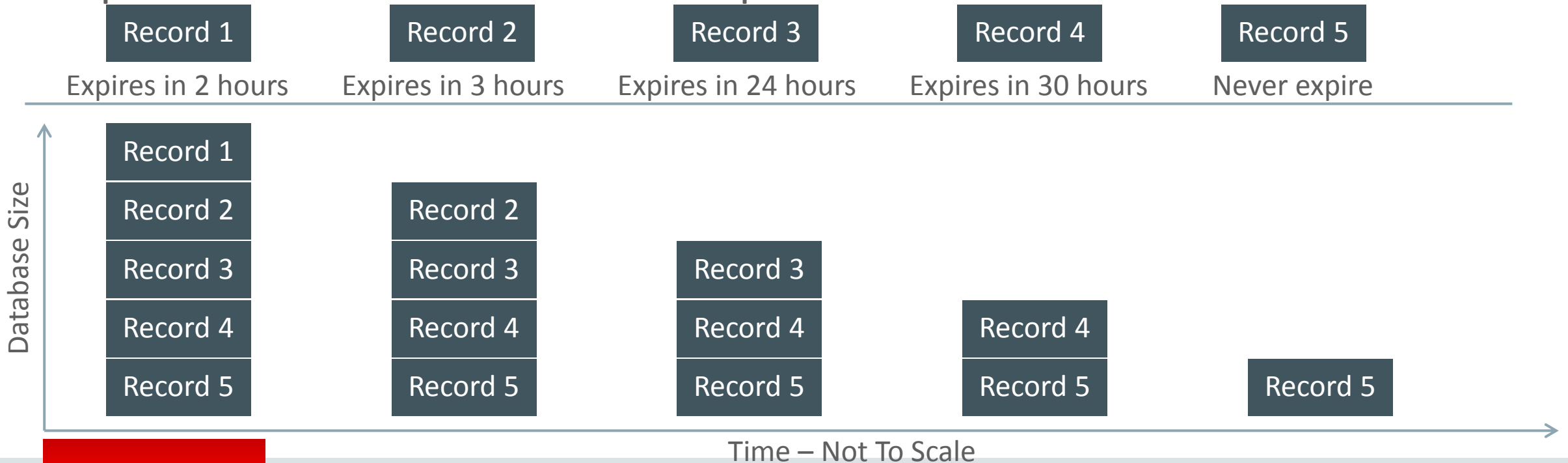


Customer Benefit: Richer Searching for Text Data



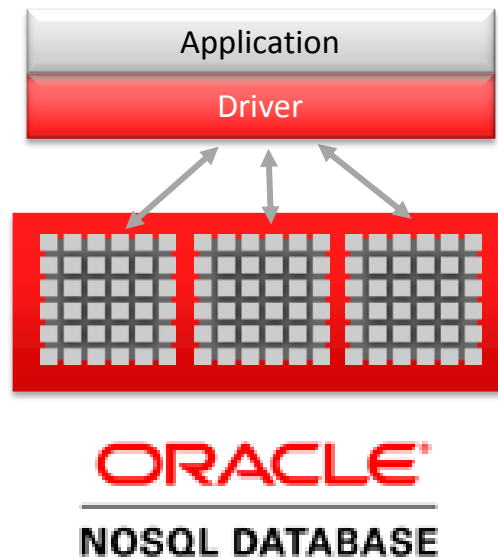
Oracle NoSQL Database – Time-To-Live (TTL)

- Automatic expiration of persistent records.
- An application user can specify a TTL duration for each record.
- The record would expire *logically* after the duration. The user can also update the TTL before a record expires.



Oracle NoSQL Database – SQL Query

Declarative query language for developers more comfortable with SQL than API level access.



SQL Commands Now Available in NoSQL

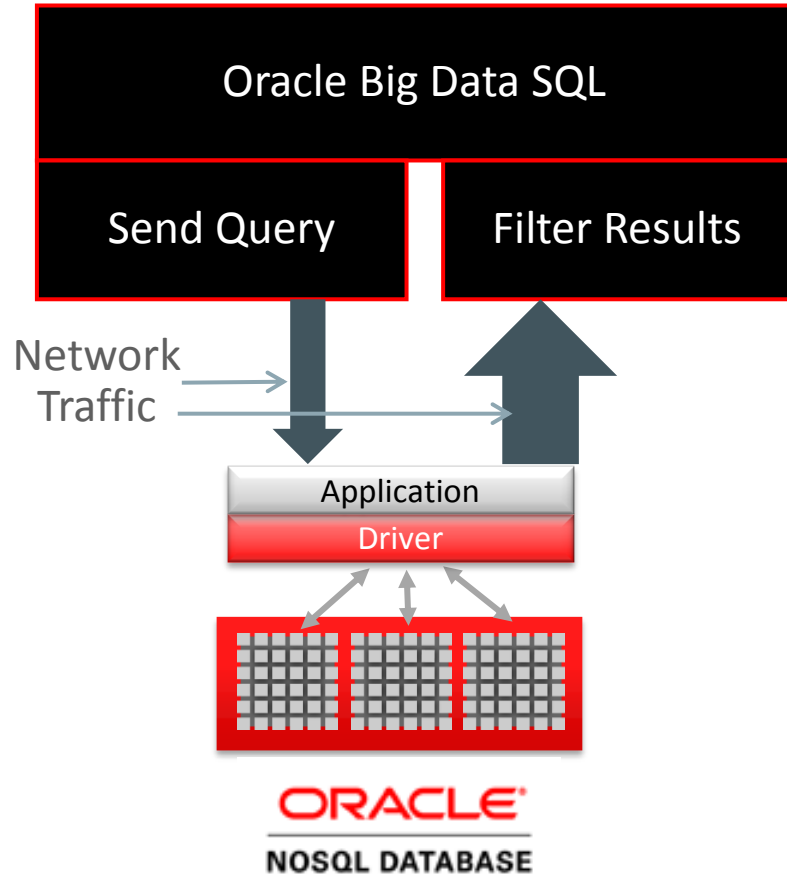
SELECT,
FROM,
WHERE,
ORDER BY

Note: In NoSQL 4.0.5 this is a Preview feature

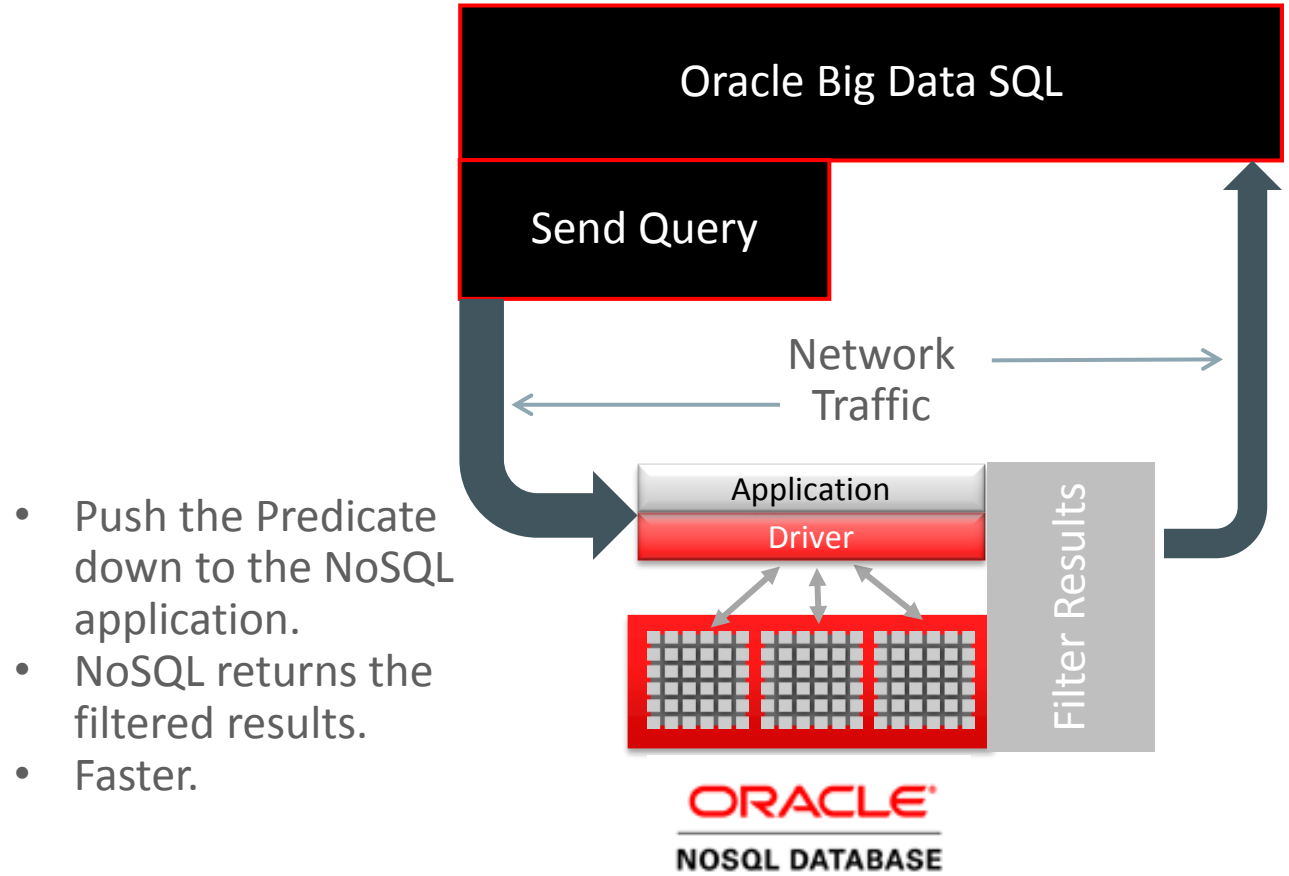
Customer Benefit: Familiar Queries Using NoSQL

Oracle NoSQL Database – Predicate Pushdown

Pre Oracle NoSQL Database Version 4.0



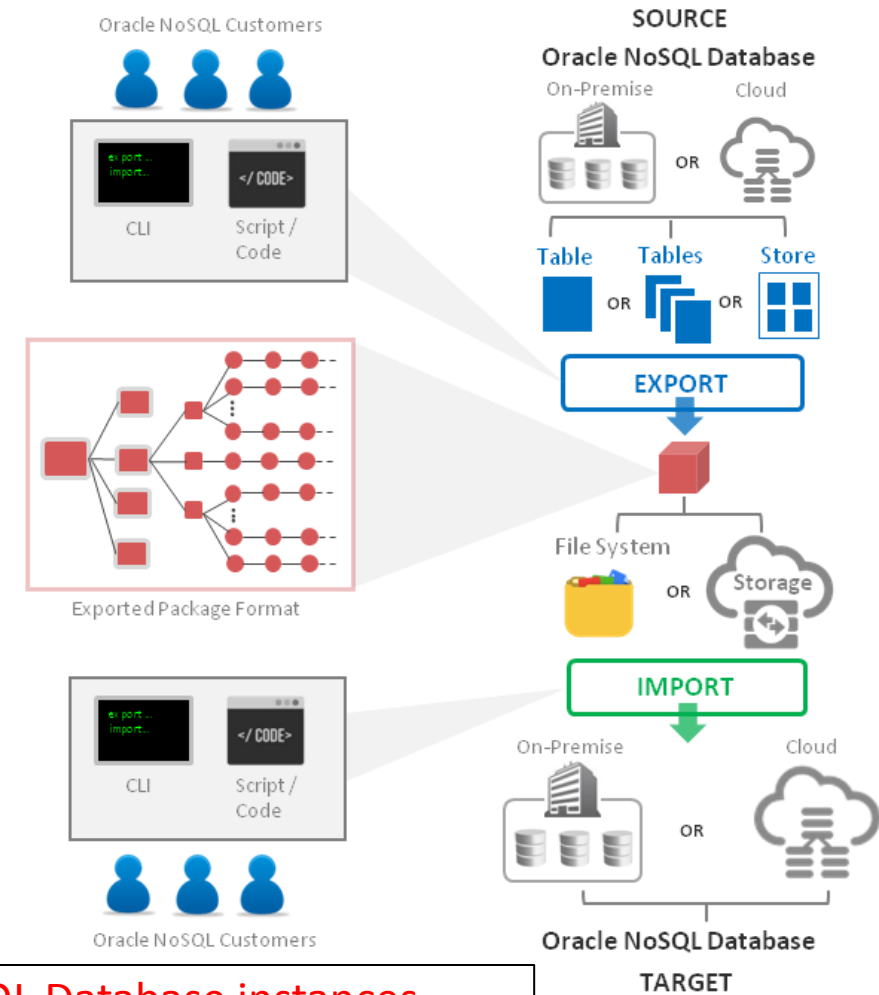
Oracle NoSQL Database Version 4.0



Customer Benefit: Faster Queries From Big Data SQL or Hive

Oracle NoSQL Database - Export and Import

- Easily move all or a subset of data and associated metadata from a source NoSQL DB store to another target NoSQL DB store.
- Easily backup NoSQL DB data to local file system or Oracle Storage Cloud Service



Customer Benefit: Easier Data Movement Between NoSQL Database instances

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