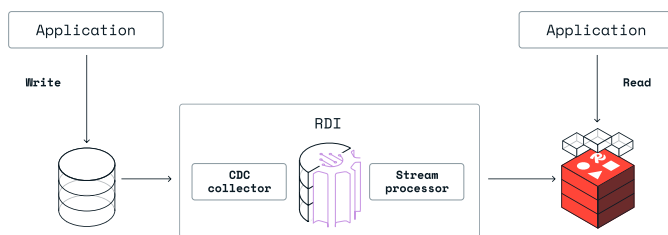Redis

Build the fast apps you need with Redis Data Integration (RDI)

Introducing RDI

RDI is a powerful tool that synchronizes data from your existing database into your Redis database in near-real-time. We've done the heavy lifting, so you can turn slow data into fast data, scale without limits, and stop overspending on database costs and data pipelines—all without writing code.

When the database powering your app isn't fast or scalable enough to respond to a large volume of reads, you need Redis. But syncing data between your DB and Redis is a complex and expensive endeavor.

That's where RDI comes in. We built RDI as an out-of-the-box data streaming pipeline that mirrors data from your database into Redis.

RDI can be used to initially load your dataset into Redis, getting you from point A to point B. It then identifies any changed data, transforms the data into a Redis data model, and prefetches data into Redis. This allows you to build apps that are always fast — without the added complexity of inconsistent data or data pipeline management.

See RDI in action

Axis Bank mobile app got more than 4X faster

Axis Bank has millions of mobile app users, but they were facing significant latency issues. Plus, when customers made account updates in-branch, they weren't being reflected in the app. Axis' traditional primary database database was simply too slow, so they decided to use Redis for real-time account data. By using RDI to sync the data from their primary database to Redis, they were able to cut response times by 4.25X, while improving overall system performance by 76%. As a result, they were able to eliminate 100% of monthly customer complaints.
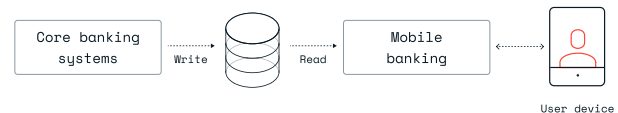
Make slow data fast—at any scale
- Build fast, scalable apps pairing Redis' speed with your existing databases
- RDI helped a rural lifestyle retailer improve latency by 5,900% and improve website conversion by 43%

Sync your data and work simply
- Simplify your tech stack, automatically synchronizing your data and keeping your database in perfect harmony with Redis—without code
- With RDI, Axis Bank was able to improve overall system performance by 76%
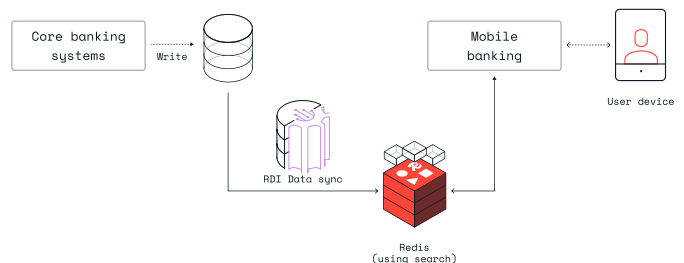
Avoid excessive database costs
- Save money by offloading reads to Redis—instead of investing in expensive database read-replicas
- Using RDI, Axis Bank reduced the number of records it needs to store by 60%, saving $82,000

Before
Querying a traditional database
- **App response times:** 170 ms
- **Growth mechanism:** Adding read replicas without performance improvements

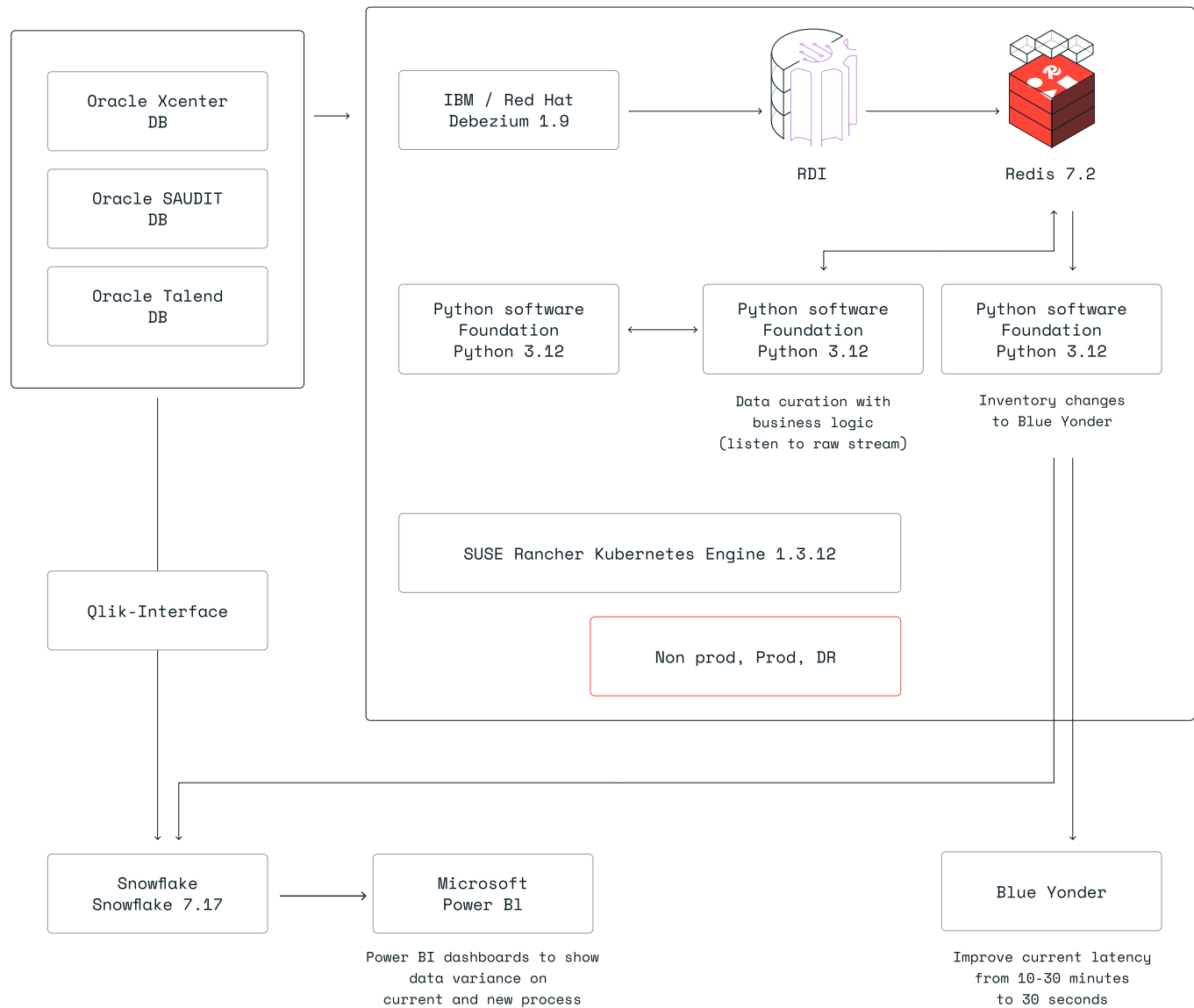**After**
Syncing data with RDI and quering Redis
- **App response times:** 40 ms
- **Growth mechanism:** Adding shards with predicatble performance improvements

Rural lifestyle retailer reduced inventory update time from 30 mins to 30 seconds

A major US rural lifestyle retailer had a big reputation to live up to. Their customers relied on them and their products to meet their home, land, pet, and animal care needs. But updating their inventory in Oracle and Blue Yonder was resulting in outdated data and inaccuracies—which was negatively impacting online orders.

What they needed was accurate data—fast. So they chose Redis as their event-driven message broker and cache for real-time inventory updates. And they were able to accelerate this process with Redis Data Integration (RDI) for caching and our vector database to power their internal chatbot. Once they were able to get their data into Redis, inventory updates improved from 30 minutes to 30 seconds (an increase of 5900%). More accurate inventory, coupled with a more responsive UX, helped them increase conversion rates by 43%—while preventing revenue loss of ~$800k per year.

Oracle Xcenter DB	IBM / Red Hat Debezium 1.9
Oracle SAUDIT DB	RDI
Oracle Talend DB	Redis 7.2

Python software Foundation Python 3.12

Python software Foundation Python 3.12 — Data curation with business logic (listen to raw stream)

Python software Foundation Python 3.12 — Inventory changes to Blue Yonder

SUSE Rancher Kubernetes Engine 1.3.12

Non prod, Prod, DR

Qlik-Interface

Snowflake Snowflake 7.17

Microsoft Power BI — Power BI dashboards to show data variance on current and new process

Blue Yonder — Improve current latency from 10-30 minutes to 30 seconds

Feature overview

No-code data ingestion

Ingest and export data in near-real-time and stream data from your database into Redis. With RDI, devs can filter, transform, and map data to Redis data types like Hash or JSON, before writing the data to the destination Redis database—all without the need to write code.
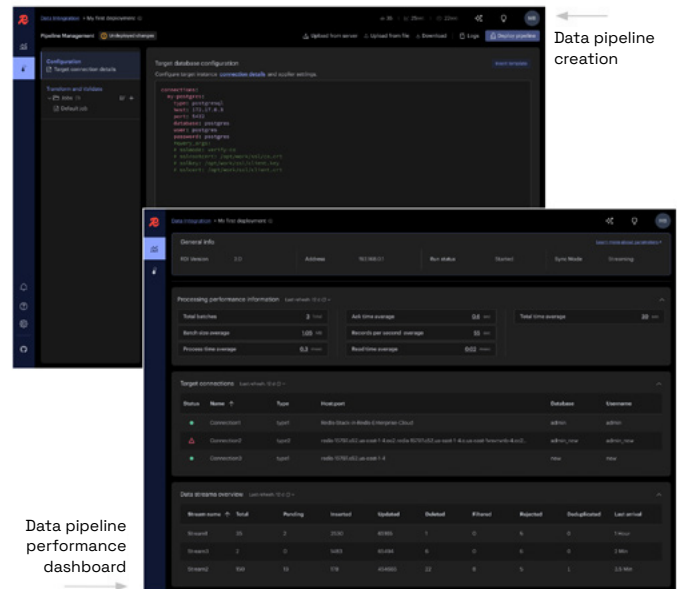
Make nearly any database faster

Databases
Oracle
MariaDB
Percona XtraDB
Postgres
SQL server
Google Cloud SQL MySQL
Google Cloud SQL Postgres
Google Cloud SQL server
Google Cloud AlloyDB for PostgreSQL
AWS RDS

Seamless data pipeline management

With Redis Insight you can manage and optimize your data pipeline–with configuration, not code. With RDI and Redis Insight you can:

- Streamline pipeline creation processes
- Perform code completion and syntax validation
- Validate data transformation and pipeline output
- Monitor data flow and pipeline performance

Data pipeline creation

Data pipeline performance dashboard

Data integration you can count on

RDI was built for high-availability, is self-healing, and provides an at least once delivery guarantee–so you can integrate your data with confidence.

Work with your favorite tools

RDI supports popular ops tools, like RDI CLI and Grafana dashboard (with metrics via Prometheus exporter).

Get started.

Read the docs.

Talk to sales.

Explore the support package.

Redis

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