



● DATASHEET

# Redis Data Integration (RDI):

All of your data, always in sync

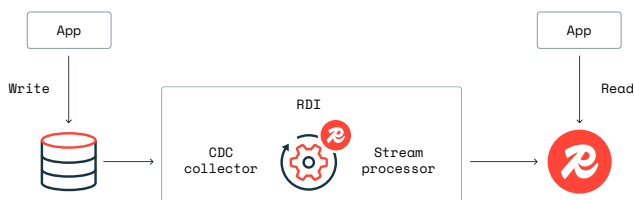
# Introducing Redis Data Integration (RDI)

## Make slow data fast—without cache misses or stale data

RDI is a powerful tool that synchronizes data from your existing database into your Redis database in near-real-time, so you can say goodbye to cache misses and stale data. 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 caching often leads to challenges with cache misses or stale data and syncing data between your database 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 Bank's traditional primary 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

### Fast the first time

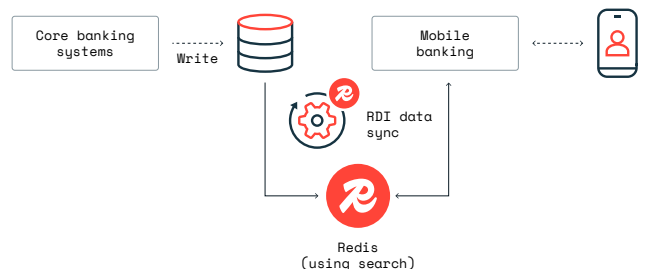
- Prefetch with RDI to keep data hot. No more waiting for the first cache miss.
- 0 cache misses.



### Before

#### Querying a traditional database

- **App response times:** 170 ms
- **Growth mechanism:** Adding read replicas without performance improvements



### After

#### Syncing data with RDI and querying Redis

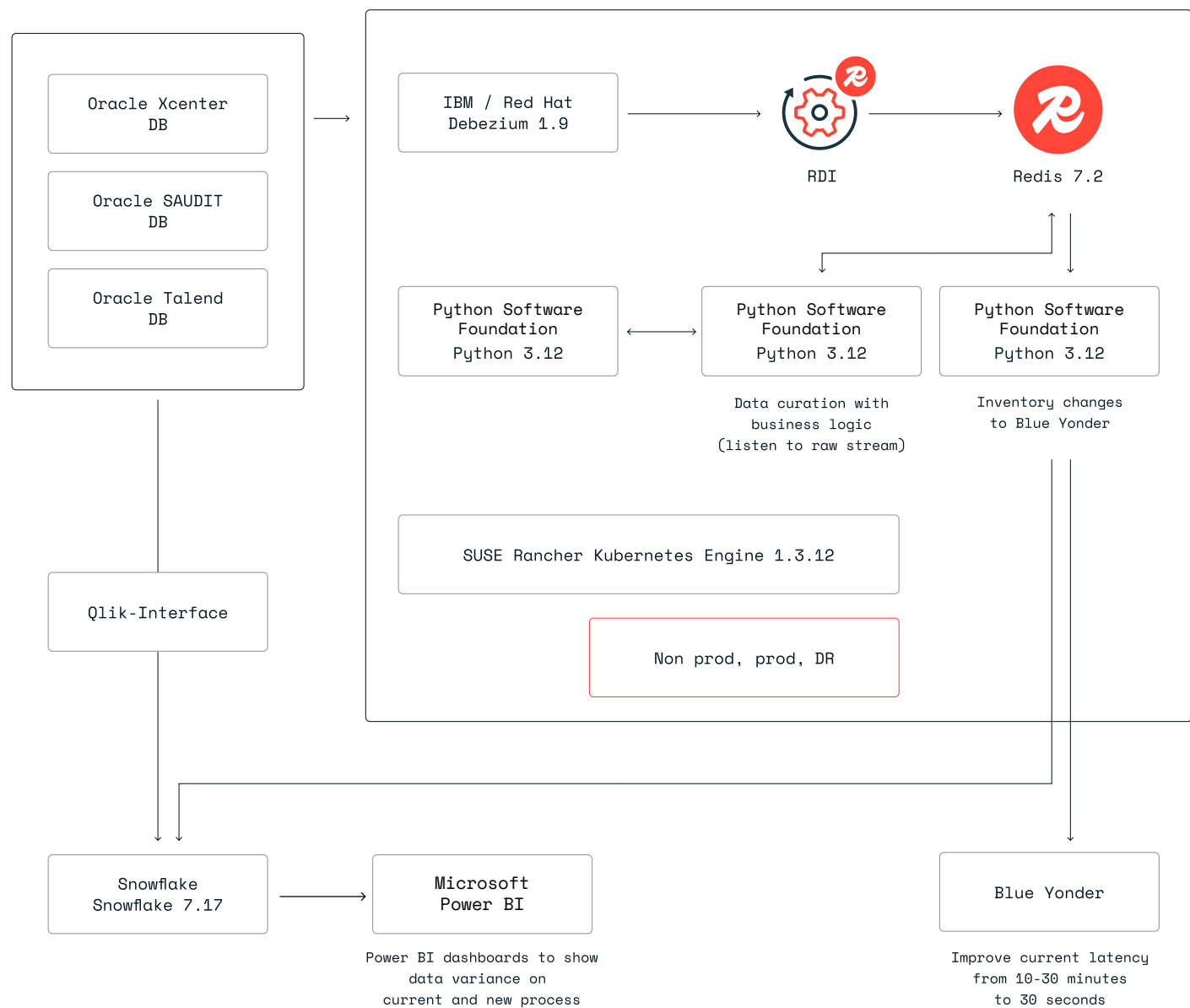
- **App response times:** 40 ms
- **Growth mechanism:** Adding shards with predictable performance improvements

**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.



## 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

Supports most popular databases.

[See a full list here →](#)

### Seamless data pipeline management

Manage and optimize your data pipelines—with configuration, not code. Using Redis Insight or the Redis Cloud console, you can:

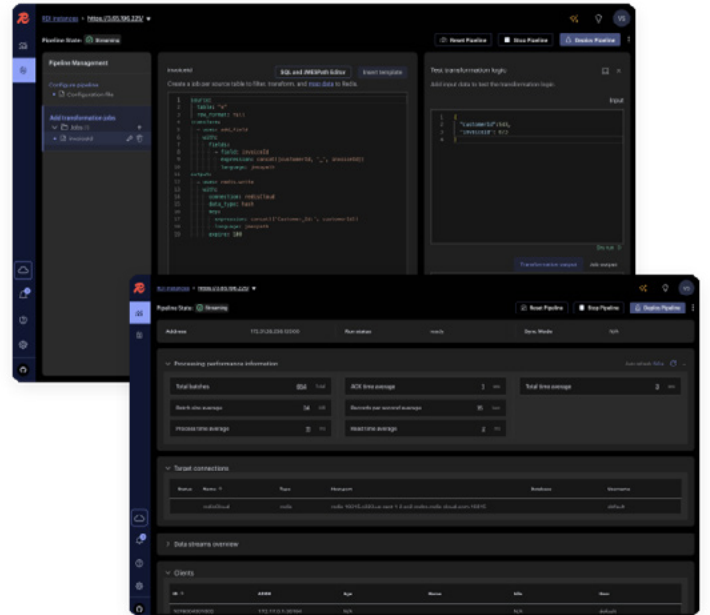
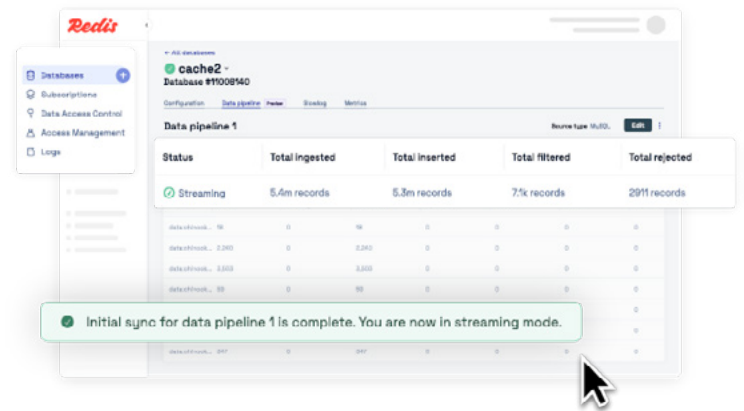
- Streamline pipeline creation processes
- Perform code completion and syntax validation
- Validate data transformation and pipeline output
- Monitor data flow and pipeline performance

### Data 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 works with your favorite Redis tools like the RDI CLI, Redis Insight, and the Redis Cloud console—in addition to popular ops tools like Grafana dashboard (with metrics via Prometheus exporter).



## Get started.

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