

Leading Tech Manufacturer Saves ~\$1.4 Million Annually With New Data Architecture

Case Study



Overview

Cutting-edge data architecture reengineering

A global leader, in designing and manufacturing computer input and interface devices, needed to speed up data processing, improve data utility and accessibility, and optimize data costs (a whopping 30+ TB for 1,000+ users).

Zensar's brief:

Use cutting-edge data architecture reengineering services to deliver a cost-optimized, scalable, and high-performance architecture.

Beyond the brief:

We brought in a qualitative difference to the client's operations, saving close to \$1.4 million per year in maintenance and licensing costs.



Challenges

Low performance and high costs

The client's IT department had a mandate to upgrade from its traditional on-premises architecture based on Oracle Business Intelligence Applications (OBIA), due to high licensing costs, limitations in scalability of hardware instances, performance-related issues in data management, and lack of transparent access to data.



Solution

Optimizing costs, performance, and scalability

The solution scope covered these aspects:

- Business analysis
- Data modeling
- Extract-transform-load (ETL) development
- Reporting
- Production support
- End-to-end project management

We delivered the solution with a three-pronged approach:

1. Increase processing speed with

- implementation of the client's data warehousing platform in AWS cloud and
- adoption of Snowflake.

2. Improve data utility and accessibility by adding a layer of data virtualization and visualization with tools, such as Denodo and Tableau; this helped create reports and dashboards in Mondrian/ctools.

3. Optimize costs by

- moving from Informatica to open-source technologies, such as Pentaho PDI and Pentaho Reporting, and
- supporting the data storage solution on the Snowflake DB.

Solution enablers

- **Amazon Simple Storage Service (S3)** enabled industry-leading scalability, data availability, security, and performance.
- **Amazon Redshift** made it simple and cost-effective to analyze the client's data with fully managed cloud data warehousing.



Impact

Cost-efficient and future-ready data solution

- Adoption of AWS cloud services, Snowflake DB, and Pentaho BI
- Separation of compute and storage nodes, using Denodo and Tableau

Business outcomes:

The solution enabled recurring annual savings of \$350K on licensing and ~\$1 million on server maintenance. It also enabled flexible scaling of the data warehouse, easy data access, and integrated data analysis.



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