



INFOSYS DATABASE MIGRATION (iDM)

Automated and Generative Al-based solution for database and data management

With the advances in technology, open-source databases provide multiple advantages over maintaining traditional legacy databases. However, the process of migration presents challenges. These challenges include differences in syntax, data types, procedural languages, and compatibility issues between databases. The Infosys Database Migration (iDM) solution addresses this by utilizing a Generative AI Chatbot add-on to provide a more accurate last-mile code conversion, especially when compared to traditional utilities like Ora2PG and SQLines, which have inherent limitations.



Key Features

- Database Migration Strategy –
 Wizard-driven application schema
 script assessment and recommendation
 of the most optimal engine.
- Smart Schema Migration Integrated with Generative AI for smart schema conversion.
- · Autonomous Engineering
 - Generative Al and ML-based auto mapper for objects, attributes, and reusable transformations.
 - NiFi custom processes to support complex data migration (BLOB and Nested Tables).
- Business Data Validation Auto generation of test cases with KPIs and metrics such as run time, object count, row count, and data statistics.

Key Benefits

- **Easy Configuration** UI interface to configure source/target databases.
- Pre-assessment Report Extracts key information like number of objects, lines of code, type of objects, incompatibilities, etc.
- Migration
 - · Schema and data migration
 - · Indexes/constraints migration
- Reconciliation for Schema/Data –
 Automated reports to reconcile schema objects and table data.
- Selective Schema Objects Migration –
 Option to selectively choose objects to migrate.

Success Stories

iDM was deployed at a **large Swiss Bank in the EMEA** migration program to migrate more than 1000 databases from Oracle to PostgreSQL and SQL Server to PostgreSQL.

iDM migrated **200+ databases**, and the migration continues until all the databases are migrated.

iDM enabled partition-based load for tables with data of around 400 GB in one table and is integrated with **custom-built wrappers on top of Ora2PG and NiFi utilities** for additional capabilities.

The business data validator and auto test case generator help validate the performance of DB code and the accuracy of data migration, resulting in a 15% reduction in the cost of operation and a 20% reduction in FTE.

Generative AI based Intelligent Solution Offering for Database Migration and Modernization

Migration Strategy

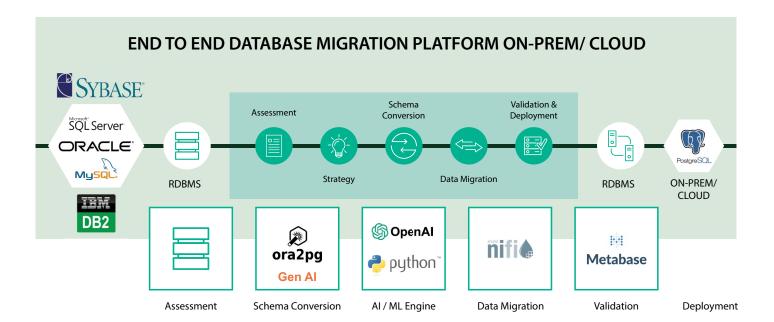
Provides a comprehensive report with Application Schema Script assessment and recommendation of the most optimal migration engine and/or utility.

Generative AI integration

Integrated with Azure OpenAI on top of open source Ora2PG/SQLines for schema migrations.

Auto Mapper for Migrations

Seamlessly integrated with Machine Learning-based algorithms to intelligently suggest source-to-target mapping across multiple databases.



iDM Promise

Up to 90%

Saving on License Cost

Up to 80%

Automated Migration of DB code

Zero

Vendor Lock-in

Infosys Topaz is an Al-first set of services, solutions and platforms using generative AI technologies. It amplifies the potential of humans, enterprises and communities to create value. With 12,000+ AI use cases, 150+ pre-trained AI models, 10+ AI platforms steered by AI-first specialists and data strategists, and a 'responsible by design' approach, Infosys Topaz helps enterprises accelerate growth, unlock efficiencies at scale and build connected ecosystems. Connect with us at infosystopaz@infosys.com.

For more information, contact askus@infosys.com

Infosys.com | NYSE: INFY



© 2024 Infosys Limited, Bengaluru, India. All Rights Reserved. Infosys believes the information in this document is accurate as of its publication date; such information is subject to change without notice. Infosys acknowledges the proprietary rights of other companies to the trademarks, product names and such other intellectual property rights mentioned in this document. Except as expressly permitted, neither this documentation nor any part of it may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, printing, photocopying, recording or otherwise, without the prior permission of Infosys Limited and/ or any named intellectual property rights holders under this document.