

Legacy to PostgreSQL Modernization

Modernize[IQ] is an all-in-one GenAI solution that accelerates Oracle and SQL Server transformation to PostgreSQL database services on AWS. By removing most of the manual effort in schema and code conversion, it compresses project timelines by a factor of five, while supporting zero-downtime data migration and AI-driven code transformation.

The result: you can break free from legacy Oracle and SQL platforms, redirect infrastructure and licensing budgets, and rapidly innovate on AWS PostgreSQL, without compromising quality or control.

From legacy Oracle & SQL Server to modern PostgreSQL on AWS

Accelerate your move from Oracle and SQL Server to PostgreSQL on AWS with Modernize[IQ], Cintra's GenAI-powered modernization solution. Powered by Hexarocket, Modernize[IQ] combines domain-specific AI with specialist migration services to deliver a 5x faster path to AWS PostgreSQL, with 90% code conversion accuracy and a funded modernization assessment to build your business case.

USING GENAI: 5x faster delivery

CODE CONVERSION ACCURACY: 90%

FULLY-FUNDED BY AWS: Modernization assessment

Why Cintra for PostgreSQL Modernization with Modernize[IQ]?

Organizations stuck on legacy platforms face operational and financial barriers that often seem insurmountable. Cintra is an AWS Advanced Partner with Oracle and Migration competencies, combining deep Oracle and SQL Server experience with GenAI-driven modernization to PostgreSQL.

With Modernize[IQ], you get:

- An optimized Oracle-to-AWS migration business case built by Oracle on AWS specialists.
- 5x faster modernization timelines by eliminating most manual code conversion effort.
- 90%+ code conversion accuracy from a domain-specific, privately trained GenAI model.
- A funded modernization assessment, typically supported by AWS, to de-risk your roadmap.
- A hybrid AI + human review model that ensures production-grade quality in your PostgreSQL environment.

Modernize[IQ] GenAI Modernization Advantages

Modernize[IQ] uses a domain-specific, privately trained GenAI model designed specifically for Oracle and SQL Server to PostgreSQL code conversion.

KEY ADVANTAGES:

- Accelerates code conversion and validation, removing weeks of manual effort.
- Learns from historical migrations to improve conversion quality over time.
- Reduces manual review, freeing senior engineers to focus on design and optimization.
- Identifies non-standard SQL patterns automatically, flagging edge cases for expert review.
- Hybrid AI + human approach, combining GenAI speed with specialist oversight for high accuracy.

Modernization Assessment & Business Case

Start your journey with a funded modernization assessment that defines your PostgreSQL roadmap and builds a clear TCO-backed business case. Typically funded by AWS, this assessment is the foundation of Modernize[IQ].

WHAT WE DELIVER:

Target Database Architecture Design & Sizing

- Future-state PostgreSQL architecture aligned to AWS best practices.
- Resource sizing to meet performance and resilience requirements.

Schema Refactoring Complexity Analysis

- Assessment of schema compatibility and required refactoring effort.
- Identification of complex objects and edge cases.

Code Refactoring Complexity Analysis

- Deep analysis of PL/SQL, T-SQL, stored procedures, and database logic.
- Complexity scoring to prioritize and sequence modernization work.

Data Migration Approach & Plan

- Recommended patterns for minimal-downtime or zero-downtime data migration.
- Fallback strategies to protect business continuity.

Estimated Costs & TCO Business Case

- Cost comparison between current Oracle/SQL platforms and AWS PostgreSQL.
- Phased roadmap with investment profile and savings forecasts.

OUTCOMES

Clear Roadmap

- A clear PostgreSQL modernization roadmap backed by hard data.
- A compelling TCO and business case to support investment decisions.

Cost & Timeline Clarity

- Transparent visibility into investment, effort, and predicted ROI.

Risk Mitigation

- Preparing for execution with a stronger understanding of any remaining complexities and dependencies.
- Full visibility of complexity, risk, and sequencing before you start the project.

Accelerated Modernization Project Services

Once the roadmap and business case are agreed, Cintra's modernization experts deliver the end-to-end modernization project, using Modernize[IQ] to compress timelines and reduce risk.

Modernization services are typically part-funded by AWS, further reducing upfront cost.

WHAT'S INCLUDED:

Project Management & Delivery

- Structured delivery within a secure development environment.
- Clear milestones, quality gates, and handover points.

Target PostgreSQL Architecture Design

- Implementation of the approved target design from the assessment.
- Integration with AWS services and operational tooling.

GenAI Schema Conversion & Code Conversion

- Automated schema conversion from Oracle/SQL Server to PostgreSQL.
- GenAI-driven database code conversion with expert validation layer.

Minimal-Downtime Data Migration with Fallback

- Migration waves aligned to business windows.
- Built-in fallback to protect business operations.

Knowledge Transfer & Handover

- Documentation and training for internal teams.
- Operational runbooks and best-practice guidelines for PostgreSQL on AWS.

OUTCOMES:

Accelerated Timelines

- Up to 5X faster delivery than manual conversion efforts.
- Faster time-to-value for PostgreSQL on AWS.

Increased Accuracy

- Reducing rework and the need for manual reviews by detecting non-standard SQL patterns automatically.

Cost Efficiency

- Releasing legacy budgets, allowing for reinvestment in modernization and fuelling innovation.

Low-Risk Transformation

- Facilitating a more stable experience with blueprinted methodology and predictable outcomes.
- A modern, supportable PostgreSQL platform ready for further innovation.

Engagement Models

Choose how you start and scale your PostgreSQL modernization journey with Modernize[IQ]:

KEY DELIVERABLES:

Assessment

- Funded Modernization Assessment & Business Case engagement, defining your target PostgreSQL architecture, complexity profile, migration plan, and TCO model.

Project Delivery

- End-to-end Accelerated Modernization Project Services, combining GenAI automation and expert delivery to execute schema conversion, code conversion, and data migration with minimal downtime.

Ongoing Enablement

- Post-project knowledge transfer and handover, ensuring your teams can confidently operate and extend your PostgreSQL environment on AWS, with Cintra available for further modernization waves as needed.

Ideal For

Modernizing PostgreSQL with Modernize[IQ] is a practical solution for a variety of businesses that want to:

- Want to break free from Oracle and SQLServer and move to open, cloud-native PostgreSQL on AWS.
- Need to accelerate modernization timelines by up to 5x without compromising quality.
- Require high-accuracy code conversion for complex, business-critical databases.
- Want to unlock legacy database budgets to fund innovation and cloud-native development.
- Prefer a data-driven roadmap and funded assessment before committing to a full modernization program.