

## ENERGY UTILITY'S ORACLE AND SQL SERVER MIGRATIONS

### REVITALIZE DATA INFRASTRUCTURE WITH EDB POSTGRES AND VIRTUALIZATION

#### GOALS

- Adopt a RDBMS alternative to Oracle® that lowers costs.
- Incorporate a new RDBMS solution with a new hardware upgrade and virtualization initiative, without incurring additional costs.
- Identify a vendor with the expertise to execute database migrations.

#### BENEFITS OF EDB POSTGRES

- Open source-based EDB Postgres™ saves up to 80% of the cost of Oracle.
- Migrating from Microsoft SQL Server® to EDB Postgres will reduce the costs of those licenses by 66%.
- Flexible subscriptions allow the EDB Postgres Platform to be deployed on-premises or in virtualized environments easily, without penalty
- EDB's extensive migration experience led to a one-day migration in a pilot test and assured the utility of long-term support and success.

Organizations regularly take the opportunity to re-evaluate their relational database management system (RDBMS) when planning a hardware refresh or new virtualization strategy. One EnterpriseDB® (EDB™) customer, an energy utility company located in the Midwestern United States, provides a glimpse into how infrastructure projects often lead to new DBMS decisions.

The utility provides electricity and natural gas to millions of customers. As it approached a major hardware refresh, the IT team decided to use it as an opportunity to gain greater operational efficiencies through virtualization. The company wanted to reduce costs as well, and correctly suspected their RDBMS could be a source of savings. The team decided to look for an alternative to Oracle, their greatest source of expense. They selected EDB Postgres™ as an Oracle replacement, and migrated Microsoft SQL Server to EDB Postgres as well, amplifying

their savings. Re-evaluating RDBMS can prompt IT teams to evaluate their overall architecture and critical elements of their infrastructure. A key reason to re-evaluate architecture and infrastructure is that DBMS licenses for many traditional vendors place limits on hardware configurations and deployment environments. This can potentially drive up costs for modernization projects. Any change in infrastructure might impact RDBMS usage, driving up those costs as well. Organizations in these circumstances often consider open source alternatives to lower database costs.

#### Energy Utility Accomplishes Goals with EDB Postgres

EDB enabled the energy utility to accomplish the goals of its new infrastructure plan:

**Migration:** The company wanted to reduce RDBMS spend, and open source-based EDB Postgres reduces costs by as much as 80%

**“We already understood that Postgres would be the right approach to replace our Oracle databases, but once we began to explore migrating Microsoft SQL Server to EDB Postgres, we soon realized that this would be a straightforward process... now we are experiencing significant savings...”**

Database Administrator,  
US Midwestern  
Energy and Utility  
Company



compared to Oracle. As for SQL Server, the company estimated that based on list prices, migrating to EDB Postgres would reduce costs for those databases by 66%. EDB Postgres has built-in compatibility for Oracle and provides the EDB Postgres Migration Toolkit which migrates tables, data, stored procedures, and custom developed packages from the Oracle database to EDB Postgres. Because of some customized code unique to the company, EDB engineers developed scripts for SQL Server migration, as well.

**Modernization:** Ultimately, EDB’s subscription model was cost-effective in supporting the new configuration the company wanted for its new data infrastructure. Like the energy utility, organizations seeking to modernize their infrastructures with virtualization learn about the limitations or increased costs of their traditional DBMS vendors. By contrast, EDB Postgres is available by a flexible subscription model that allows organizations to deploy EDB Postgres on-premises, virtualized, or in the cloud or containers, and freely move the licenses between environments when needed.

controlling building security at its headquarters involving a 30GB to 50GB database. While the EDB Postgres Migration Toolkit can be used to migrate Microsoft SQL Server to the EDB Postgres Advanced Server database, the company had developed its own procedural language and utilized a great deal of customized code. Instead, EDB engineers developed a script to ensure the database schema was compliant with the EDB Postgres Advanced Server database, and were able to avoid making any changes to the application.

“We already understood that Postgres would be the right approach to replace our Oracle databases, but once we began to explore migrating Microsoft SQL Server to EDB Postgres, we soon realized that this would be a straightforward process,” said a database administrator at the company. “Given the shared relational model we did not need to spend much time training our DBAs and now we are experiencing significant savings, in terms of licensing costs.”

## A Moving Experience

EDB’s experience with database migrations proved invaluable during the company’s pilot test with a Microsoft SQL Server migration that was accomplished in a single day. The company decided to run a pilot project with a small application

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