

# Consolidating business-critical databases

Explore the benefits of EDB running on IBM Power



# Providing one unified, modern, and standardized platform

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Tietoevry Connect is an IT software and services company headquartered in Finland. Tietoevry is one of the largest IBM Power service providers in the Nordics, providing IT and product engineering services to customers. With extensive experience in servicing and supplying solutions running on Power, Tietoevry has been vocal in articulating the benefits of running several software solutions on the IBM platform.

When approached by a client needing to consolidate its business-critical databases, Tietoevry offered its services. Talking with Tietoevry, the client expressed a great struggle in controlling multiple different databases as it was highly complex and costly to maintain. With plans to develop and supply its users with new services and applications, the client quickly concluded that its current database strategy would slow the time-to-market process significantly.

Oracle licensing and support fees can be the most extensive costs in a client's IT budget. Licensing and maintaining a lifecycle of a proprietary enterprise database environment is expensive and time-consuming. With several other options available, many clients have opted to replace their legacy DBs with open source DBs, eliminating all fixed-priced long-term commitments.

# Solution

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Tietoevry's client is one of the many that have come to adopt open source DBs running on IBM Power to replace a costly and complex legacy solution. With many options to choose from, the client sought out a solution capable of providing the best results at the lowest price. In this instance, the client found running EDB on IBM Power the best solution moving forward. With enhanced security being a primary ask, it was clear that running on IBM Power would be the best course of action.

Steadily on their journey with EDB, Tietoevry's client has now gone on to build its new applications on EDB while converting some of its old Oracle-based applications to run on EDB too. Thanks to the enhanced capabilities of this new service offering and the unwavering support from the Tietoevry team, the client has successfully seeded roughly 50 virtual machines (VMs) of EDB nodes. As excitement surrounding EDB on Power continues, IBM and Red Hat have called on its offering management teams to ramp up support, ensuring that the solution will stand the test of time. The support of EDB on RHEL8 on Power was crucial and made possible by a collaborative effort from all parties.

Showing immense satisfaction with the direction that open source DB on Power is progressing towards, Tietoevry's client has decided to renew all the VMs from the older EDB versions (9-13) running on RHEL7 to EDB version 14 running on RHEL8.

# Outcome

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Open source DBs are shaping out to be a way of the future for many. Saying goodbye to the legacy DB, Tietoevry's client has reduced to paying for 12 subscriptions, with annual support and subscription costs for the entire solution equating to less than USD 25,000. Before adopting EDB on Power, the client would have paid significantly more to receive support and cover the cost of half the Oracle subscriptions. This significant price differential is largely due to Power being 4.2x more performant than Intel and the Oracle support costs steadily increasing by around 5% each year.

Going beyond the significant EDB license and capacity cost savings, the standardized application architecture has significantly eased and fastened the building of new applications to provide room for growth. Migrating away from Oracle, applications remain highly compatible with most code running unchanged. Clients also benefit from investment protection as DBA and developer skills are protected and transferable using the compatibility layer.

Looking at the hardware, there are a lot of benefits because of running on IBM Power. Compared to a physical x86 solution, you can see a 92.5% decrease in licenses or a 50% decrease in licenses compared to a virtual x86 solution. Using Shared Processor Pools to manage CPU resources provides flexibility and value for Power servers. Certainly, EDB can easily be positioned as an Oracle alternative and has some compelling benefits that are pulling more and more towards running EDB on IBM Power.

# Explore the benefits of EDB Postgres Advanced Server

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**Security** - Password policy management, session tag auditing, data redaction, SQL injection protection, and procedural language code obfuscation

**Performance** - Query optimizer hints, SQL session/system wait diagnostics

**Developer Productivity** - Over 200 pre-packaged utility functions, user-defined object types, autonomous transactions, nested tables, synonyms, advanced queueing

**DBA Productivity** - Throttle CPU and I/O at the process level, over 55 extended catalog views to profile all the objects and processing that occurs in the database

**Oracle Compatibility** - Offers compatibility for schemas, data types, indexes, users, roles, partitioning, packages, views, PL/SQL triggers, stored procedures, functions, and utilities

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Produced in the  
United States of America  
September 2022

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