

Leave Oracle for PostgreSQL

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Agenda

Leave Oracle for PostgreSQL with **EDB + IBM**

1. PostgreSQL introduction
2. EDB + IBM for PostgreSQL
3. Use cases
4. Oracle migration
5. Demo & next steps



PostgreSQL is more than just database technology

It's a movement built
on a commitment
to enable innovation



EDB supercharges PostgreSQL



Largest dedicated
PostgreSQL company



Founded in
2004



Over 5,000 customers -
1 in 4 of Fortune 500



500+
employees



Over 10 years of
consecutive quarterly
subscription growth



Major PostgreSQL
community leader



Recognised leader in Relational
Database Management Systems
(RDBMS) by both Gartner and Forrester



Global presence



The largest dedicated PostgreSQL company

EDB acquires 2ndQuadrant in Sept 2020

- **More customers:** Than any dedicated PostgreSQL company
- **More experts:** Leading PostgreSQL contributors
- **More innovation:** Positioned to lead in enterprise PostgreSQL and hybrid cloud



+

2ndQuadrant[®] +
PostgreSQL

Market success



IBM

Why EDB & IBM



IBM + EDB

IBM COMMITMENT AND INVESTMENT IN EDB

Working with EDB since 2008 as a partner and investor including the port of EDB PPAS (Postgres Plus Advanced Server) to Linux on POWER8 and POWER9 processors

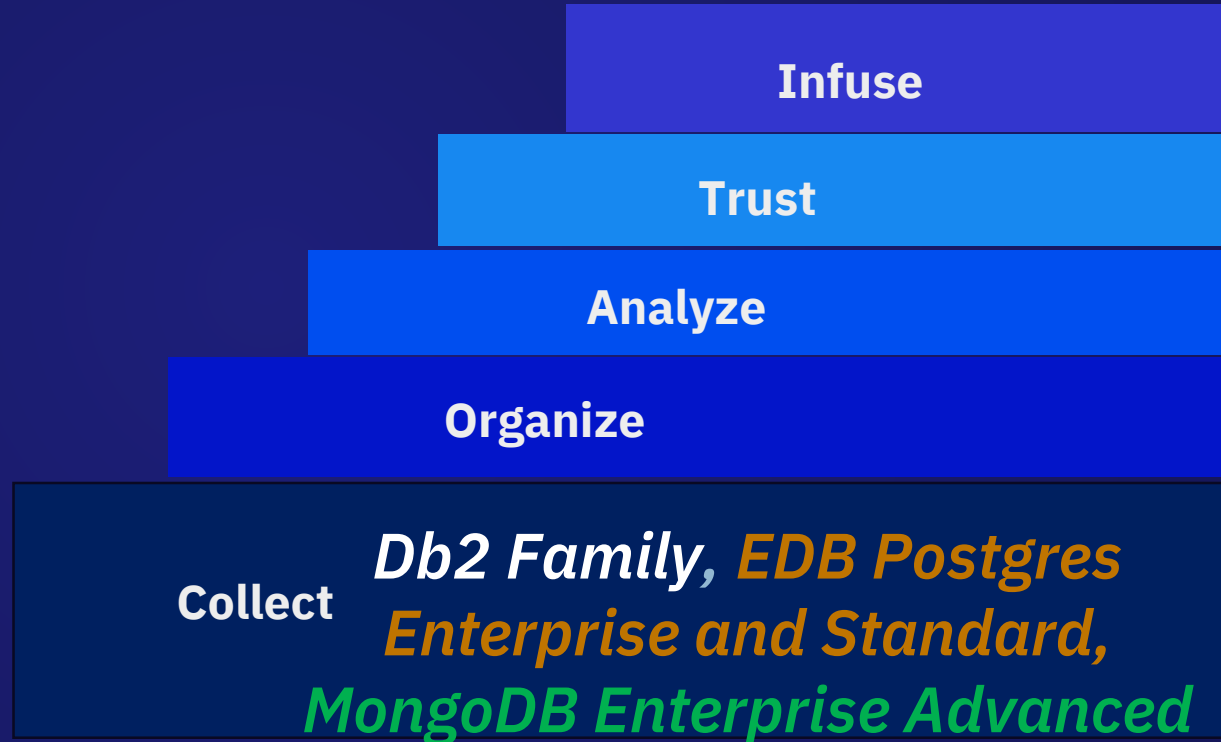
IBM AND EDB JOINT COMMITMENT TO OPEN SOURCE DATABASES

- EDB is Strategic Global Open Source Database Partner for IBM
- Support and exploitation of POWER8 and POWER9 architecture
- Certified for Red Hat and CentOS on Power

IBM AND EDB BUSINESS UNIT ALIGNMENTS

- IBM Power, Storage and Hybrid Data Teams
- IBM Nutanix Hyperconverged Systems Support
- IBM Client Centers (Austin, TX and Montpellier, France)
- System Lab Services and Migration Factory
- WW Power and Smart Analytics Benchmark Center

IBM delivers the capabilities you need to build a ladder to AI



IBM Cloud Private for Data Db environments

Add-ons

All categories

AI

Analytics

Dashboards

Data governance

Data sources

Developer tools

Industry accelerators

Storage

Data sources

CockroachDB
Partner Premium
CockroachDB: Ultra-resilient SQL for global business.

DB2 Event Store
IBM Premium
In-memory data store capable of extremely high speed ingest and deep, real-time analytics.

IBM Db2 Advanced Enterprise
IBM Available Premium
Relational database that delivers advanced data management and analytics capabilities for transactional and warehousing workloads.

IBM Db2 Advanced Enterprise
IBM Enabled Premium
Relational database that delivers advanced data management and analytics capabilities for transactional and warehousing workloads.

DB2 Warehouse
IBM
Data warehouse designed for high-performance, in-database analytics.

IBM Db2 for z/OS
IBM
Create databases in Db2 for z/OS and work directly with the data from IBM Cloud Private for Data.

Data Virtualization
IBM
Query many data sources as one.

MongoDB Enterprise
Partner Enabled Premium
Scalable, open source NoSQL database.

PostgreSQL
Open source Enabled
Open source object-relational database designed for developers.



Accelerate Data Monetization

Enhance data powered apps with always-current analytics across distributed databases

Data Virtualization enables you to experience distributed heterogeneous databases as a single data repository where your data powered apps can connect and run



Operationalize Data Science & AI

Infuse apps with data science and AI

Build, deploy, manage & govern ML models to improve business outcomes

For example:

- Personalized recommendations
- Customer churn
- Cross sell & up sell
- Predictive maintenance



Shift to Next-Gen Workloads

Shift to Cloud Native architecture and deploy anywhere

- Provision & scale in minutes
- Build once, deploy anywhere – multi cloud support
- Built in automation & collaboration to increase productivity



Smarter Governance

Governance to enable self service analytics and accelerate time-to-value

Auto-discover meta data, manage governance rules & policies, enforce to mitigate risk and accelerate compliance

Oracle Migration



You're not alone

Here are the top 5 reasons enterprises leave Oracle for PostgreSQL.



PostgreSQL offers
significant
cost savings



You can avoid
vendor lock-in



Easier to
replatform to
cloud/hybrid



Innovation action
is in Open Source



Smoother path
to Digital
Transformation

Choose EDB & IBM for your Oracle migration

With over 300 successful customers migrated, we have the knowledge and expertise to help you reduce costs and mitigate risks of migration



**Deep compatibility
with Oracle database**



**Comprehensive migration
tools and services**



**24x7 support for any Postgres
deployment at any scale**

EDB Postgres Advanced Server

The Oracle alternative



**Migrate from
Oracle faster**

Compatibility with Oracle database schemas, data types, indexes, users, roles, partitioning, packages, views, PL/SQL triggers, stored procedures, functions, and utilities



**Reduce risk and
support compliance**

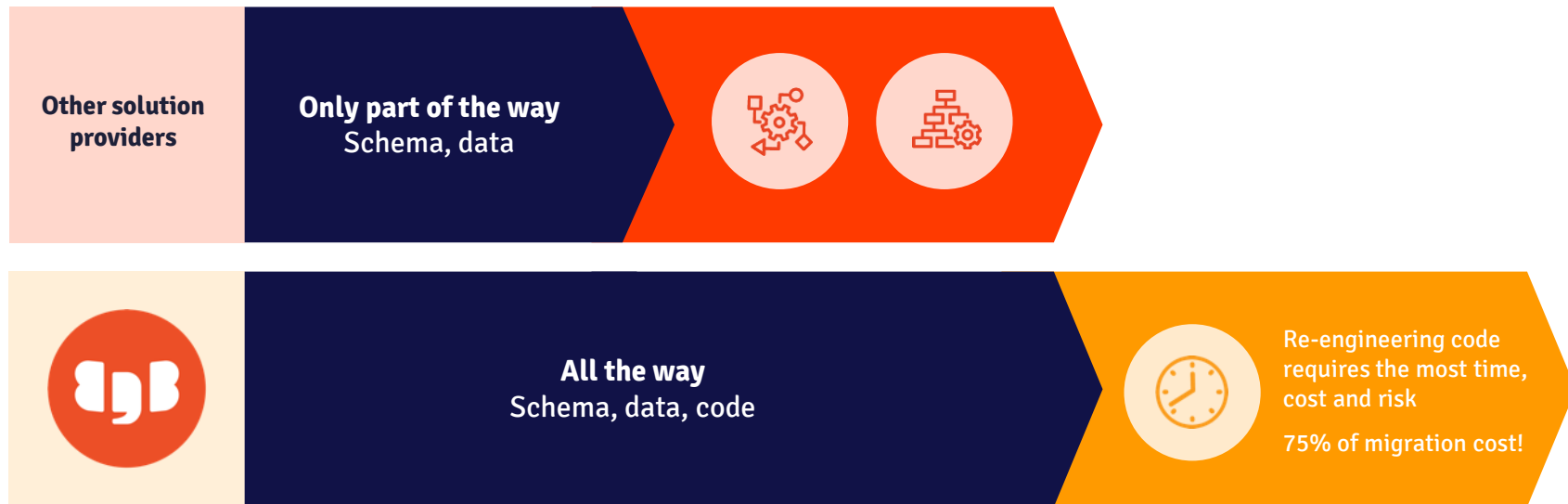
Meet HIPAA, GDPR, and PCI regulations with enhanced security features such as password policy management, session tag auditing, data redaction, and SQL injection protection



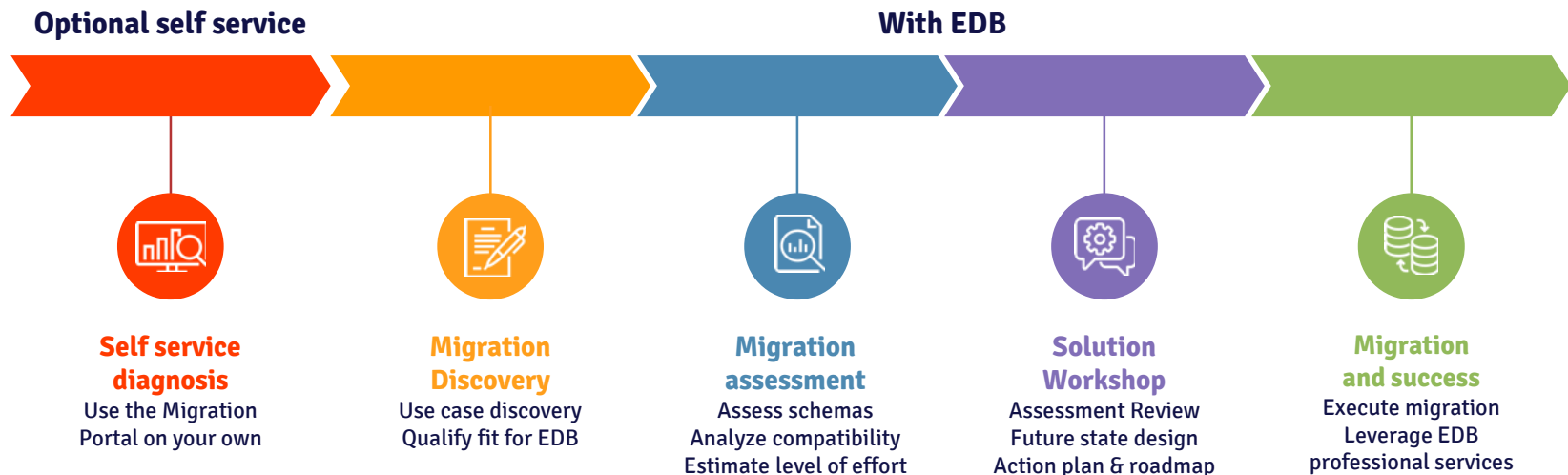
**Improve developer
and DBA productivity**

Over 200 pre-packaged utility functions, user-defined object types, autonomous transactions, nested tables, synonyms, advanced queueing, catalog views, and more

EDB compatibility



A proven process for your migration

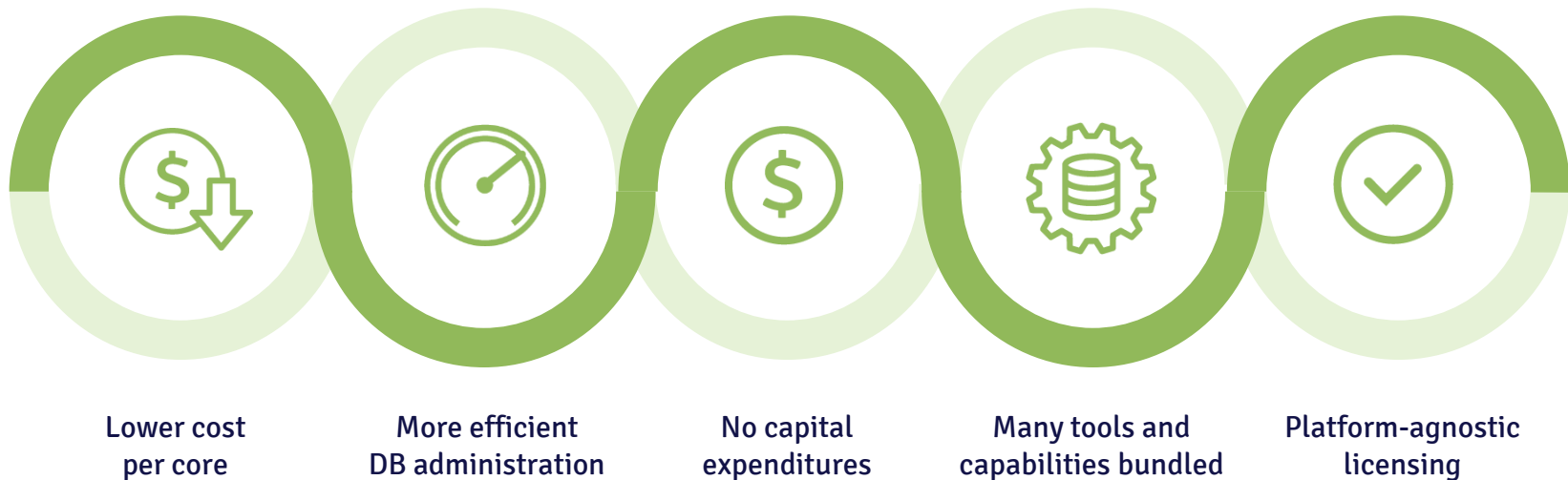


The result?

**Reduce costs +
advance open
source
strategies**

Break free and reduce costs

IDC research shows that, on average, EDB customers can save up to 42% over three years in operating costs when compared to other database technologies.



Migration assessment & process

Your application and database environment



Your app code and APIs



Your schemas



Your data



Your infrastructure

EDB compatibility with Oracle, tools, and services



Migration Assessment



Data migration tools and replication



Compatibility for Oracle code and interfaces



Professional services



**Oracle database
migration to EDB Postgres
Advanced Server**

EDB Migration Portal

Convert Oracle database schemas

- Online assessment and migration of Oracle schemas
- Compatibility in EDB Postgres Advanced Server
 - Schemas
 - DB code
 - Application interfaces
- Rich knowledge base from 10+ years of migrations
- Continuous release of new code translations

Example output

OBJECT TYPE	%PASS	TOTAL
TABLE	98.83%	279,991
INDEX	97.90%	224,555
CONSTRAINT	97.52%	126,409
SYNONYM	100.00%	97,813
SEQUENCE	99.83%	43,754
VIEW	47.93%	40,942
PROCEDURE	84.65%	26,008
TRIGGER	87.55%	24,614
PACKAGE	73.86%	22,965
FUNCTION	94.85%	18,292
TYPE	88.86%	8,049
PACKAGE BODY	47.26%	6,706
TYPE BODY	79.85%	2,288
MATERIALIZED VIEW	27.67%	965
DATABASE LINK	75.69%	547
Total		923,898

Demo on Migration Portal



Company profile

A large multinational Asian bank with significant presence throughout Southeast Asia, offering personal and private banking in addition to commercial banking services to SMEs. The banks has 28,000+ employees and 80 branches. It is present in 18 markets globally, including six priority markets in Asia (Singapore, Hong Kong, China, India, Indonesia and Taiwan).

Problem

- Find a lower cost database alternative to Oracle
- Increase profitability and position the bank for future IT requirements
- Reduce Digital Transformation costs

Solution

- Built an implementation plan for migrating two applications of a 16 year old mission critical system called Finacle (Finance Oracle)

Results

- Of the 3,000 cores under Finacle, EDB has migrated 14 modules of 500 cores to date for a savings of \$800,000.
- Rollout across the organization started in 2017 and touched 12 countries including Singapore, Hong Kong, Taiwan, India, Indonesia and China.



EDB Postgres Advanced Server rollout across this Large Bank started in in 2017 and touched 12 countries



\$800K Cost Savings
after migrating 14 modules
of 500 cores of a total
3000 cores

Summary	
Use Case	Modernization / TCO Reduction
Workload	OLTP / Operational
Application Name	Infosys Finacle
EDB Tools of Interest	EDB Migration Toolkit

Recommended Next Steps

Lunch & Learn

- ✓ Deep dive on your project needs and EDB compatibility with Oracle

Migration Assessment

- ✓ Try the migration portal!
- ✓ Migration Discovery exercise with EDB



Thank you!

