DATABASE PLATFORM
FOR DIGITAL BUSINESS

Face2Face

- Gaby Schilder | 14-06-2017

Agenda

- Origins of Postgres and EDB
- EDB Postgres Advanced Server
- The Uniface© case
- Oracle compatibility
- Polyglot platform
- Multiple answers
- Cost containment
- Discussion and Questions

EDB POSTGRES

Origins of EDB and Postgres

Postgres: A Proven Track Record

- Most mature open source DBMS technology

- Enterprise-class features (built like Oracle, DB2, SQL Server)

- Strong, independent community driving rapid innovation

PostgreSQL

Fully ACID Compliant
MVCC
Point in Time Recovery (PITR)
Data and Index Partitioning
Bitmap Indexes
ANSI Constraints
Triggers & Stored Functions
Views & Data Types
Nested Transactions
Online Backup
Online Reorganization
Foreign Keys
Streaming Replication
Multi-Core Support
JSON Support
HStore
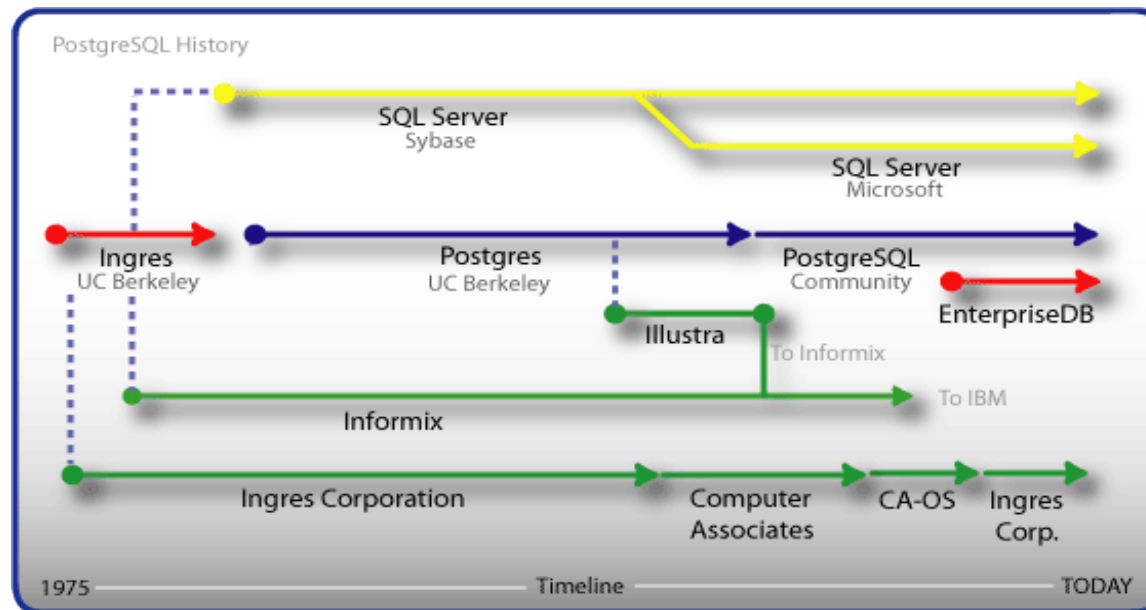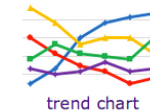

EDB POSTGRES

Postgres' Growth

- **Postgres is widely recognized for its long history of proven success and future promise**

"We congratulate MongoDB, PostgreSQL and Cassandra for their extraordinary achievements in 2013….The fact that we have three open source tools and two NoSQL systems amongst the winners may be an indication of what 2014 has in store for us."

DB-Engines Ranking

The DB-Engines Ranking ranks database management systems according to their popularity. The ranking is updated monthly.

Read more about the method of calculating the scores.

trend chart

216 systems in ranking, March 2014

Rank	Last Month	DBMS	Database Model	Score	Changes
1.	1.	Oracle	Relational DBMS	1491.80	-8.43
2.	2.	MySQL	Relational DBMS	1290.21	+1.83
3.	3.	Microsoft SQL Server	Relational DBMS	1205.28	-8.99
4.	4.	PostgreSQL	Relational DBMS	235.06	+4.61
5.	5.	MongoDB	Document store	199.99	+4.81
6.	6.	DB2	Relational DBMS	187.32	-1.14
7.	7.	Microsoft Access	Relational DBMS	146.48	-6.40
8.	8.	SQLite	Relational DBMS	92.98	-0.03
9.	9.	Sybase ASE	Relational DBMS	81.55	-6.33
10.	10.	Cassandra	Wide column store	78.09	-2.23

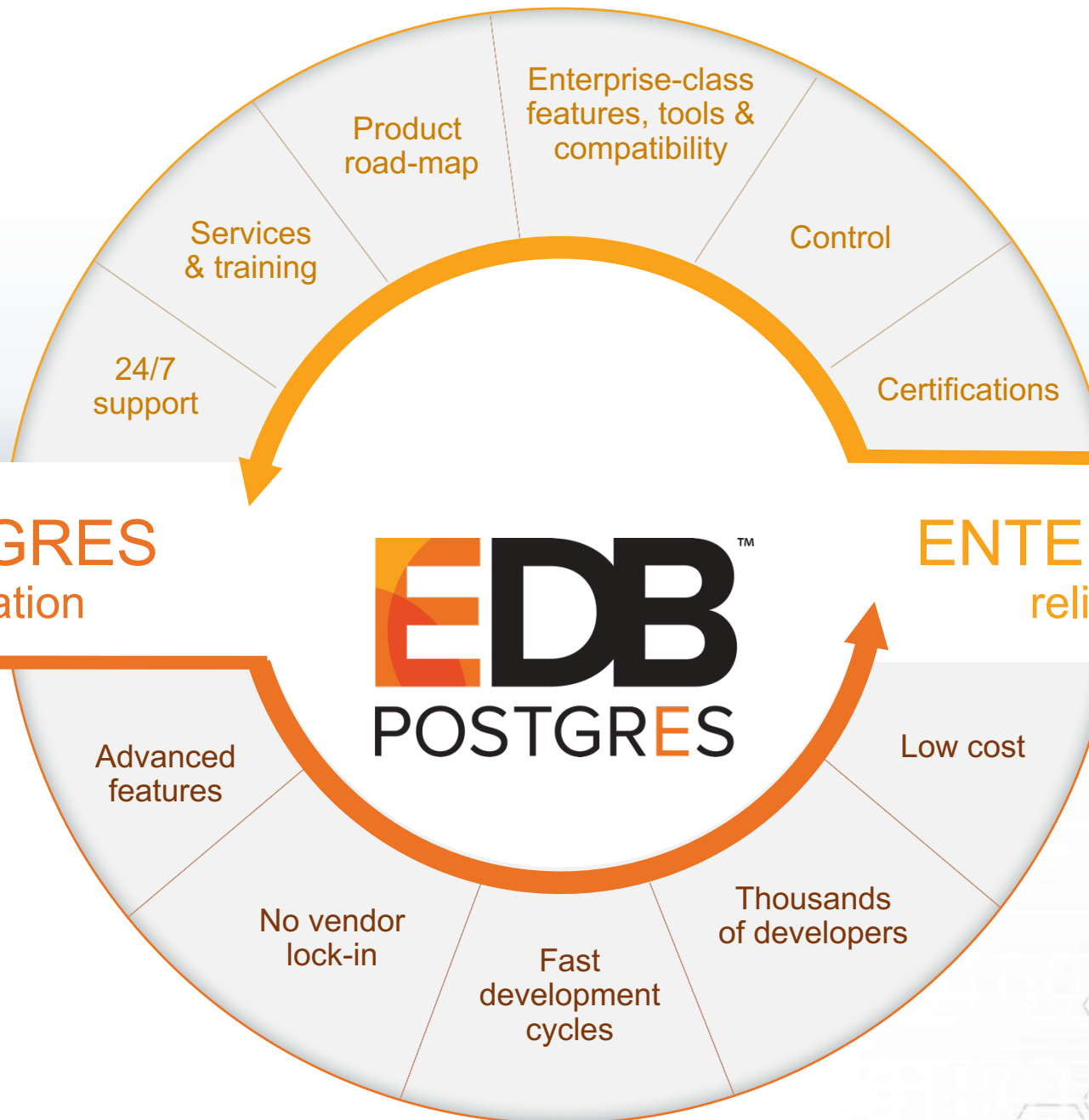**WIRED** GEAR SCIENCE ENTERTAINMENT BUSINESS SECUR
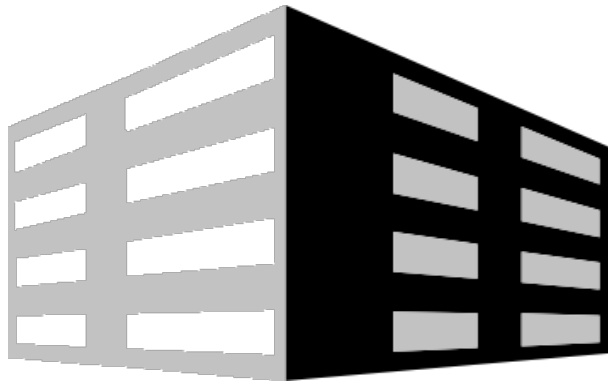
ENTERPRISE | *software* ▾ | database software

Meet the Open Source Trio Primed to Topple Oracle

BY KLINT FINLEY 01.07.14   9:00 AM

EDB POSTGRES

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Founded in 2004

- The world leader in open-source based Postgres software and services.

- Customer base > 3700

- 300+ employees

- Offices worldwide

- Recognized RDBMS leader
  - Gartner and Forrester

- Recognized PostgreSQL community leader

Gartner MQ: EDB is The Leading OSS-Based DBMS

The Gartner report, *Magic Quadrant for Operational Database Management Systems*, by Nick Heudecker, Donald Feinberg, Merv Adrian, Terilyn Palanca, Rick Greenwald was published October 5, 2016.

Figure 1.   Magic Quadrant for Operational Database Management Systems

Source: Gartner (October 2016)

EDB Customers

EDB currently has over 3,700 total customers including 85 of the Fortune 500 and 169 of the Forbes Global 2000

Sample Customer Performance Stats

- **Global mobile ad network**
  - Largest database is 14TB
  - 1.2 billion transactions a day, 55K transaction per second
  - 400 concurrent users
  - Analyzes 240TB of data per day
- **Online Brokerage Firm**
  - 1 billion writes a day
  - 3,000 transactions per second
  - 800 concurrent users

- **Global stock trade underwriter**
  - Largest database is 8 TB
  - 6 to 10 million transactions per day
- **Global consumer financial services provider**
  - Example application database is 2 TB
  - 200K SELECT statements per second
  - 25K WRITE transactions per second

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Key Partnerships

- **Target Market:** Enterprises, Governments, Cloud/IaaS/PaaS, ISV/OEMs
- **Vertical Focus:** Financial Services; Insurance; Information Technology; Government; Telecommunication

Gartner Application Landscape & Open Source

Apps of Innovation — Web & Mobile applications

Applications of Differentiation — **Custom Java applications** running on Linux

Application of Record that support Open DB — ISV App examples: **Infor**, **Pegasystems**, Uniface, etc

Proprietary Apps of Record – will not support Open Database — Proprietary ISV Apps: Oracle EBS, SAP ERP, etc
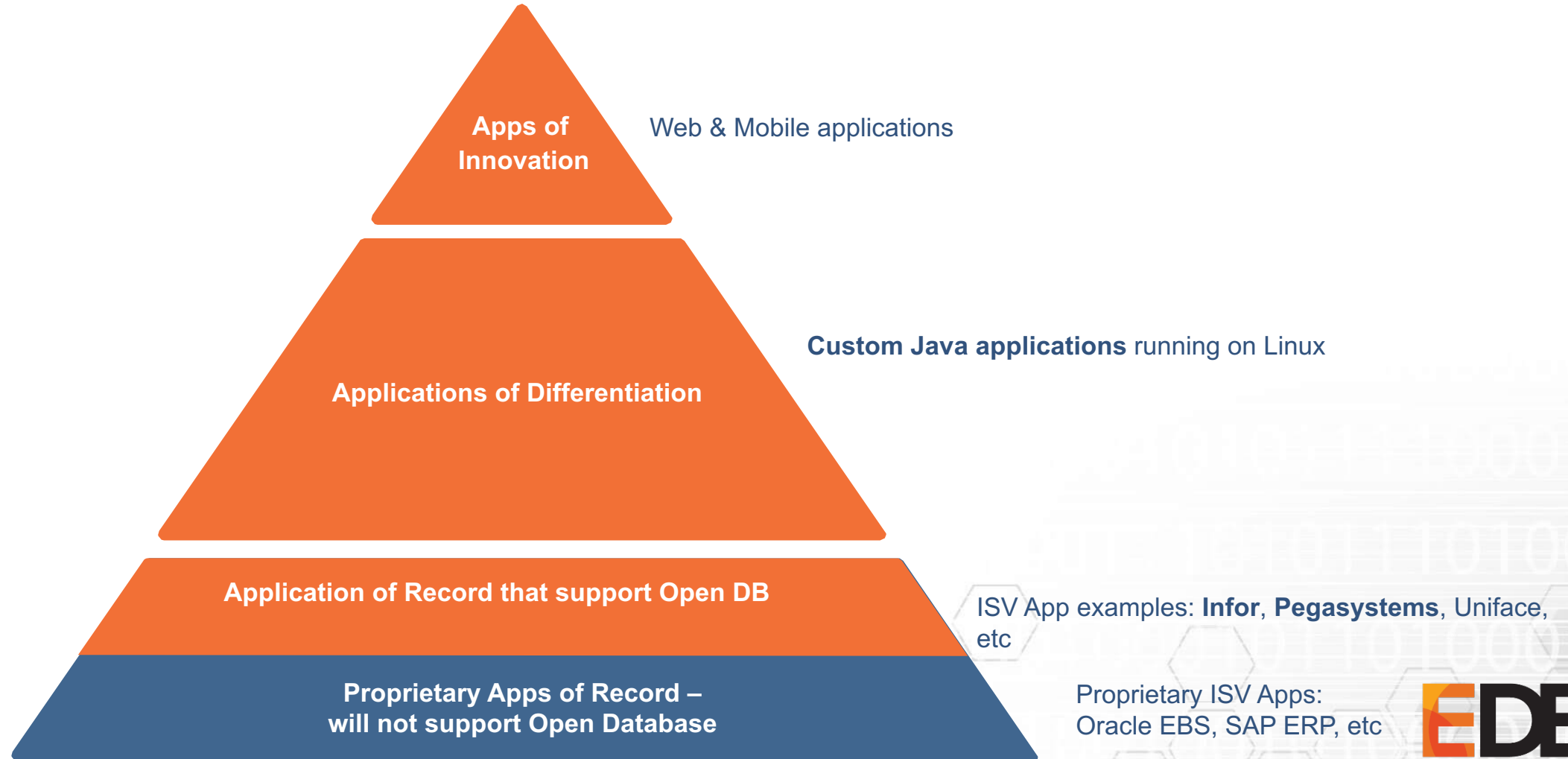
EDB POSTGRES

Uniface®
IS compatible!

Oracle vs. EdDB TCO Comparison on X86

License Fee Per Core	Oracle Enterprise Edition	EDB Postgres Advanced Server
	(8 cores) (x86 processor)	(8 cores) (x86 processor)
Database	$47,500	included in subscription
Partitioning	$11,500	Included
Data Guard	$11,500	Included
Diagnostics	$5,000	Included
Total License Fee per Core	$75,500	included in subscription
Total License Fee per Server (CapEx) (0.5 core factor)	**$302,000**	**$0**
Annual support/subscription cost per core	22% of License Fee	$1,750 per core
Annual Support/Maintenance per Server (OpEx)	**$66,440**	**$14,000**
Total 3 Year License and Support Cost	**$501,320**	**$42,000**

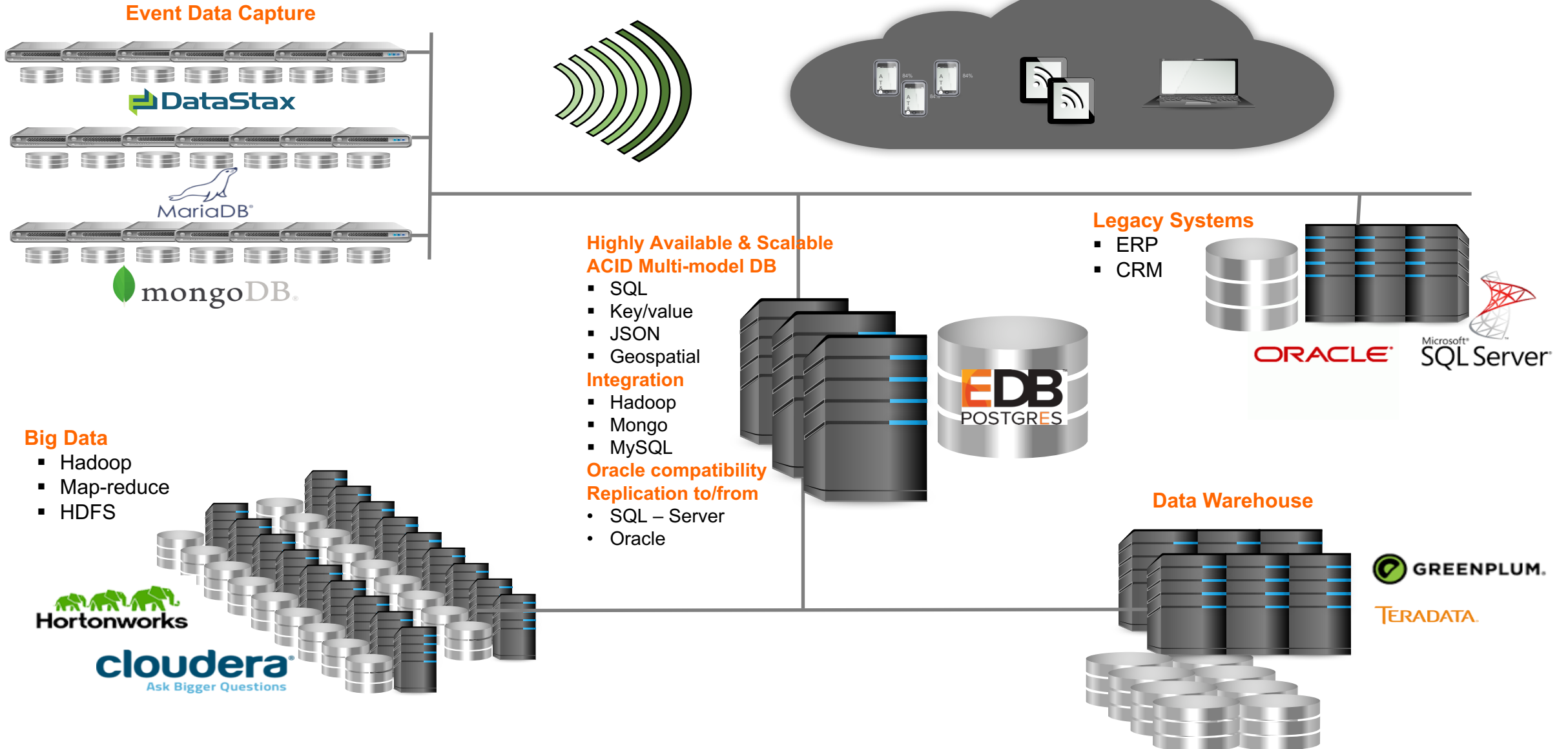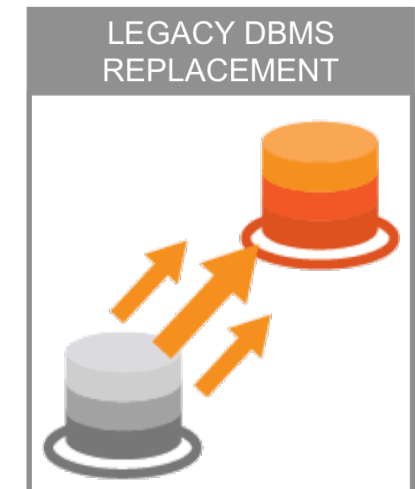No CAPEX ● Annual OPEX reduction **79%** ● 3 YR TCO cost savings **92%**
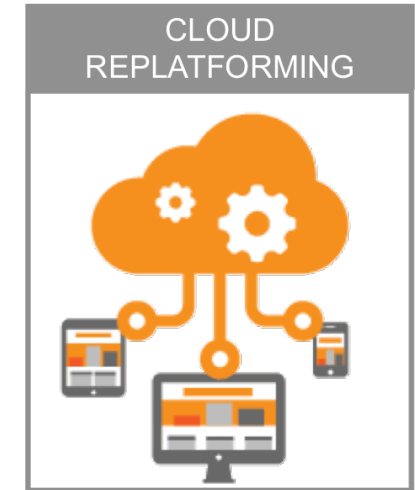
EDB POSTGRES™

Database Platform For Digital Business

Edb Postgres And EDB Ark
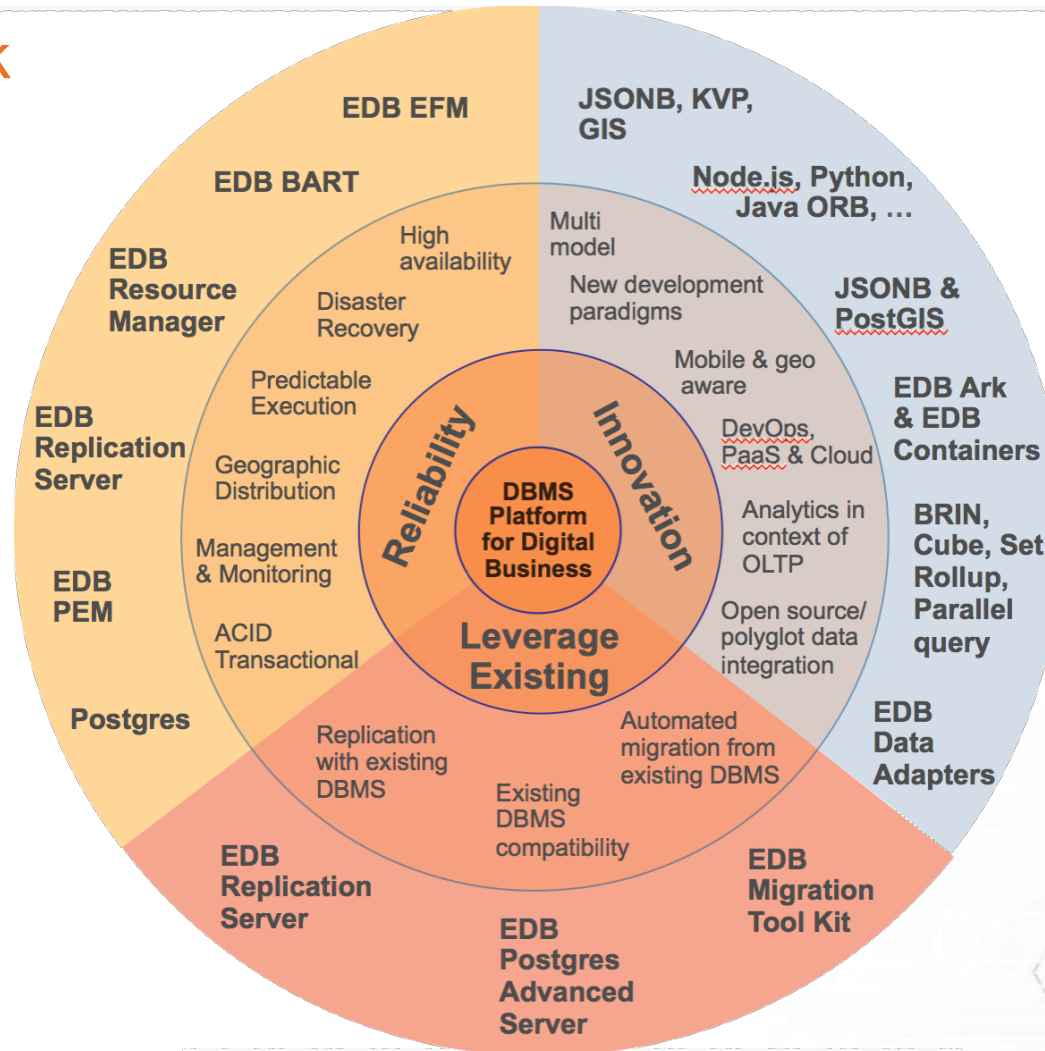
Data Management Landscape

Event Data Capture

DataStax

MariaDB

mongoDB

Highly Available & Scalable ACID Multi-model DB
- SQL
- Key/value
- JSON
- Geospatial

Integration
- Hadoop
- Mongo
- MySQL

Oracle compatibility
Replication to/from
- SQL – Server
- Oracle

Legacy Systems
- ERP
- CRM

ORACLE
Microsoft SQL Server

Big Data
- Hadoop
- Map-reduce
- HDFS

Hortonworks

cloudera
Ask Bigger Questions

Data Warehouse

GREENPLUM
TERADATA

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EDB Postgres Platform 2017

EDB POSTGRES

Database Options

EDB Postgres Advanced Server	PostgreSQL

Tool Suites

Integration	Migration	Management

Deployment Options

Bare Metal	Virtualization	Containers	Private Cloud	Hybrid Cloud	Public Cloud

Services and Support

24/7 Global Support			
Professional Services	Certification	RemoteDBA	Training

NEW APPLICATIONS

CLOUD REPLATFORMING

APPLICATION MODERNIZATION

LEGACY DBMS REPLACEMENT

EDB Postgres Platform

Database Options
| EDB Postgres Advanced Server | PostgreSQL |

Tool Suites
| Integration | Migration | Management |

Deployment Options
| Bare Metal | Virtualization | Containers | Private Cloud | Hybrid Cloud | Public Cloud |

Services and Support
24/7 Global Support

| Professional Services | Certification | RemoteDBA | Training |

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EDB Postgres Platform – DBMS Options

EDB Postgres Advanced Server

- Based on open-source PostgreSQL

- Adds performance, security, and database compatibility for Oracle

- Includes additional developer and DBA features

- EDB Postgres Enterprise: 24x7 support plus management, integration and migration tool suites deployable across many traditional platforms as well as cloud platforms

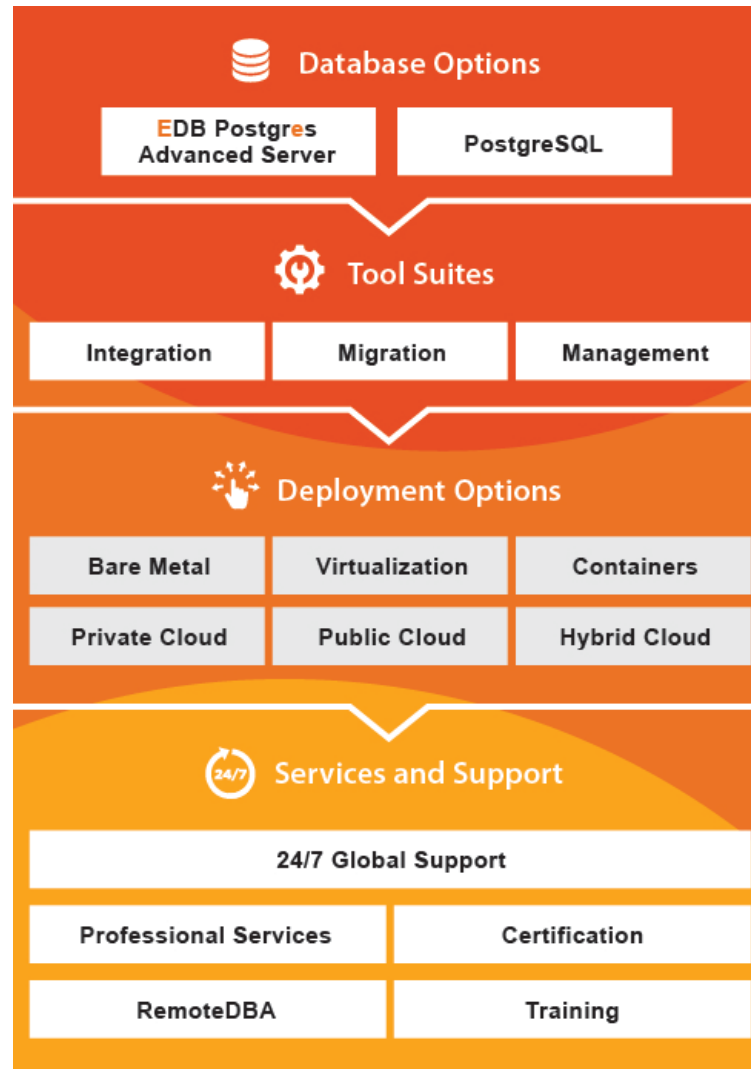# EDB Postgres Platform – DBMS Options
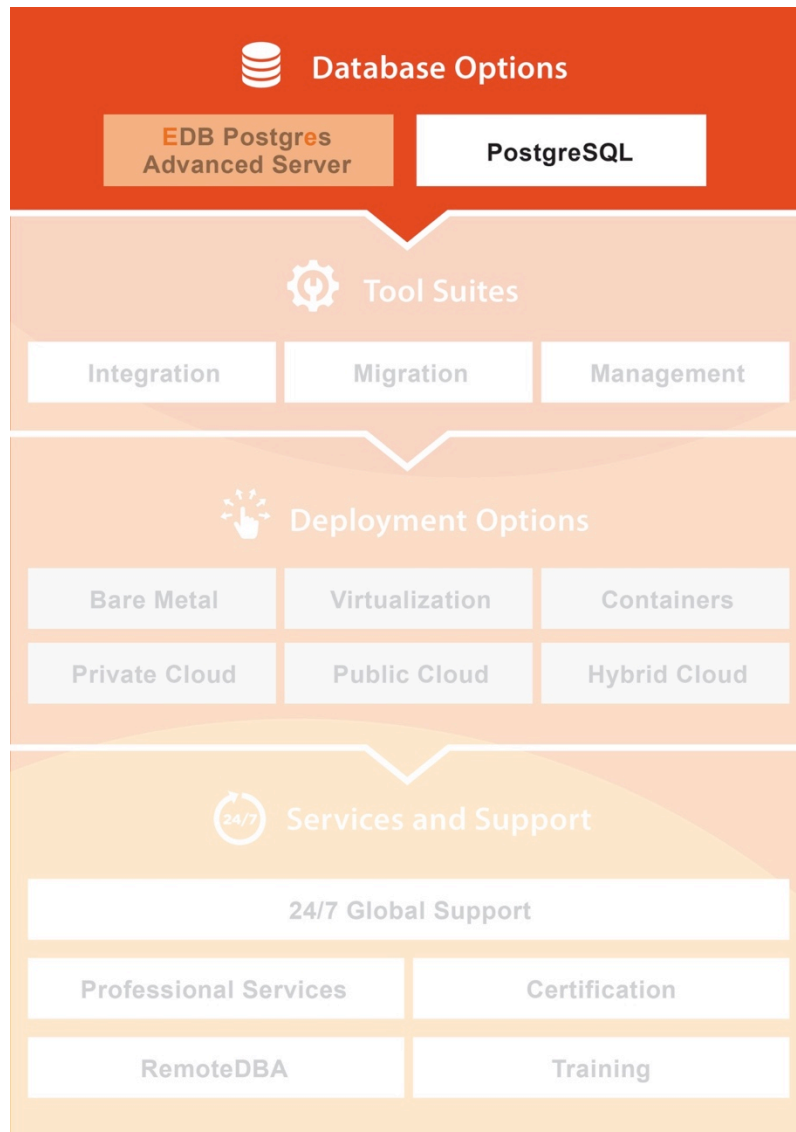
PostgreSQL

- The world's most advanced open source database

- EDB Postgres Standard:
  24x7 support plus management, integration and migration tool suites deployable across many traditional platforms as well as cloud platforms

The EDB Postgres Platform - Subscriptions

Capabilities	Components	Subscriptions			Benefits
		Enterprise	**Standard**	**Developer**	
Database	EDB Postgres…				
Open source-based DB w. enterprise features (Oracle compatibility, performance & security)	Advanced Server	X		X	ACID compliant, reliable, high performance and extensible relational data store
Open source DB	PostgreSQL		X	X	
Management Suite					
GUI-based Management, Monitoring and Alerting	Enterprise Manager	X	X	X	Comprehensive management, monitoring, alerting and tuning with advanced backup/recovery operations and configurable database high availability;
Backup and Recovery	Backup and Recovery	X	X	X	
High Availability	Failover Manager	X	X	X	
Integration Suite					
Data Replication (SMR/MMR)	Replication Server (SQL Server, Oracle, Postgres)	X	X	X	Data Federation and Distributed Transaction Management capability to integrate the database with the enterprise data management environment. * Beta
Data Integration	Data Adapters (FDW)	X	X	X	
Distributed Transaction Management	XA Connector*	X		X	
Migration Suite					Tools to migrate applications from commercial databases to open source-based databases
Database Migration	Migration Toolkit (Oracle, Sybase, MS SQL)	X	X	X	DMA Tool is available as part of a services engagement
Database Migration Assessment Tool	Migration Assessment (Oracle)	X	X	X	

24 x 7 Global Support

Professional Services, RemoteDBA, Training, Certification

Deployment Options: Bare Metal, Virtual, Public, Private & Hybrid Clouds

EDB Postgres Platform

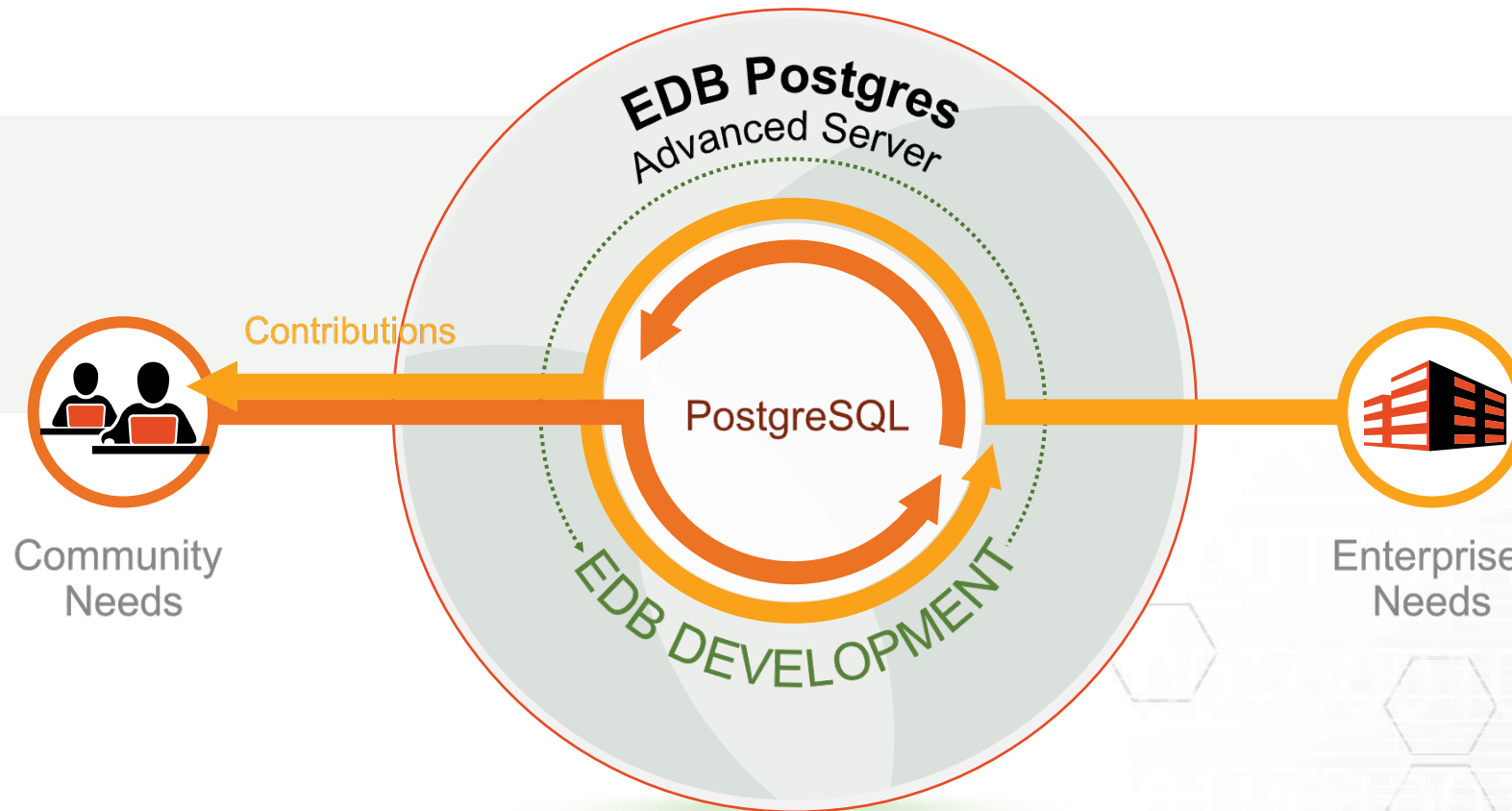# EDB Postgres Platform – Services & Support
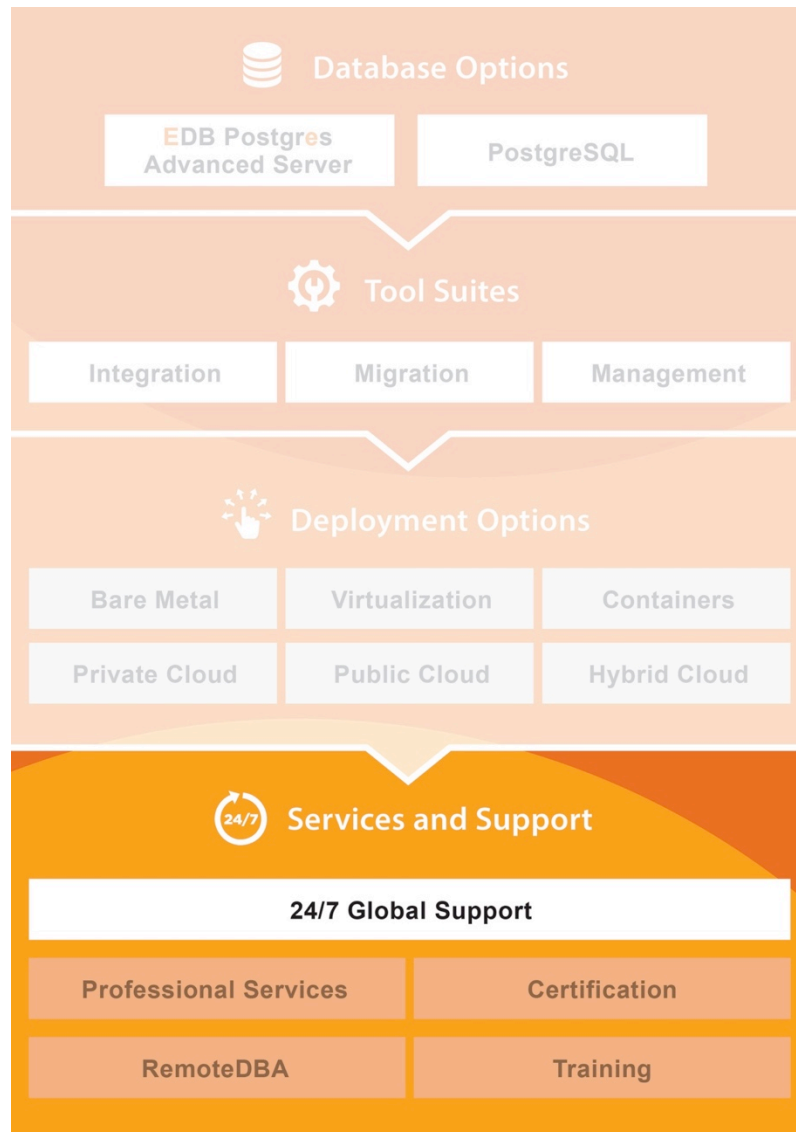
24/7 Global Support

- Production Support – 24 x 7

- Developer Support – 10 x 5

EDB PostgreSQL &
EDB Postgres Advanced Server

EDB Postgres

ADVANCED SERVER

- Continuously synchronized with PostgreSQL for a super-set of community PLUS enterprise features
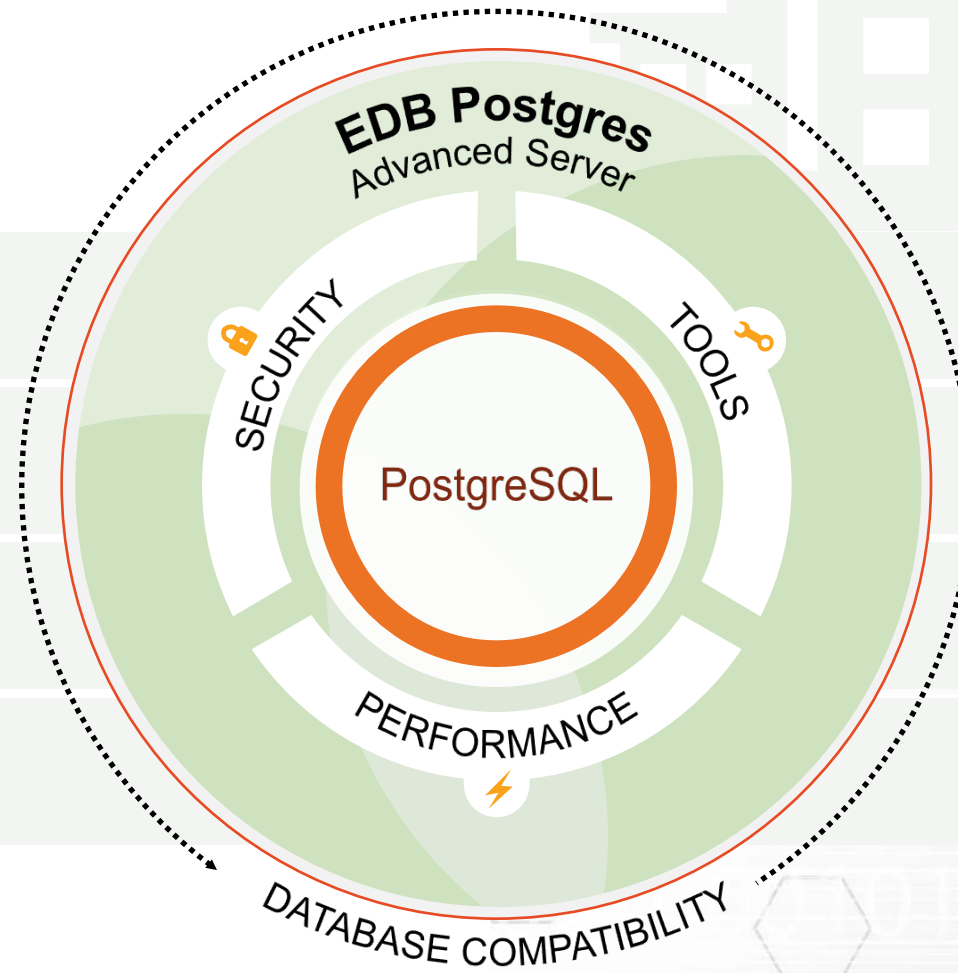
EDB Postgres
ADVANCED SERVER

Security

Tools

Performance

Compatibility

EDB Postgres
Advanced Server

SECURITY · TOOLS · PERFORMANCE · DATABASE COMPATIBILITY · PostgreSQL

EDB POSTGRES™

Database Compatibility for Oracle®

EDB
POSTGRES

Database Compatibility for Oracle®

Compatible with:

Your people → **Your apps** → **Your business**

Oracle Developers

Oracle Applications

Lower Costs and Increased Agility

- Run applications written for Oracle virtually unchanged
- No need to retrain Oracle DBAs and developers
- Support for PL/SQL language and OCI interoperability
- Replication for easy sharing of data

No disruption to your ongoing operations!

EDB™ POSTGRES

Case Studies

Become our showcase for Uniface®

Discussion

- Questions?

THANK YOU

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