

Should I stay or should I go ...?

Thoughts before moving to another database platform

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Trivadis – Our key figures.



- Founded in 1994.
- 16 Trivadis locations with more than 650 employees.
- Sales of CHF 115 million (EUR 106 million).
- Over 250 Service Level Agreements.
- More than 4000 training participants.
- Research and development budget: CHF 5.0 million.
- More than 1900 projects each year with over 800 customers.
- Financially independent and sustainably profitable.

Markus Flechtner

- Principal Consultant, Trivadis, Düsseldorf
- Oracle since 1990: Development, Support, DBA
- Focus: RAC, HA, Upgrade + Migration
- Teacher: RAC, New Features, Multitenant, PostgreSQL for Oracle-DBAs
- Co-Author of the book "Der Oracle DBA" (Hanser, 2016)



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DOAG



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Almost everyone wants to migrate

- Currently, there's a kind of "database migration hype"
- More players in the RDBMS market
 - Enterprise DB is very active in promoting their product "Enterprise DB Advanced Server" as an alternative to Oracle
- Specialized No-SQL-Databases
 - Document store
 - In-Memory Cache / Database
 - Graph database
 - Time Series database

Agenda

- "Never change a running system, so why should I migrate"?
- Decision criteria
- Which databases to migrate?
- Why should I stay?
- Summary

Why should I go (migrate)?

Possible reasons to leave Oracle ..

- Political decisions
- Oracle is expensive
- Oracle support is bad
- Other databases have more features
- We don't need all these Oracle features
- Oracle doesn't like us anymore

Political Decisions

Schleswig-Holstein läutet Abschied von Microsoft ein

Die schleswig-holsteinische Landesregierung setzt bei der IT-Beschaffung den Kurs auf Open Source und strebt langfristig eine „vollständige Ablösung“ von Closed-Source-Software an.

Quelle: <https://www.heise.de/newsticker/meldung/Schleswig-Holstein-laeutet-Abschied-von-Microsoft-ein-3849115.html> (Oktober 2017)

Oracle is expensive ... (1) – a short poll



Which database is more expensive (5 years period)?

- Oracle Database Standard Edition 2
- Enterprise DB PostgreSQL Standard
- Enterprise DB PostgreSQL Advanced Server

Oracle is expensive ... (2)

	Metrics	Licence (1 time)	Support / Subscription annual fee	
Oracle SE2	Socket	15.194,00 €	3.342,00 €	(2018)
EDB Postgres Standard	Core/vCore	- €	1.225,00 €	(2016)
EDB Advanced Server	Core/vCore	- €	1.750,00 €	(2016)
Server		4 Cores	1 Socket	
	TCO / 3 years	TCO/4 years	TCO/5 years	
Oracle SE2	25.220,00 €	28.562,00 €	31.904,00 €	
EDB Postgres Standard	14.700,00 €	19.600,00 €	24.500,00 €	
EDB Advanced Server	21.000,00 €	28.000,00 €	35.000,00 €	
Server		6 Cores	1 Socket	
	TCO / 3 years	TCO/4 years	TCO/5 years	
Oracle SE2	25.220,00 €	28.562,00 €	31.904,00 €	
EDB Postgres Standard	22.050,00 €	29.400,00 €	36.750,00 €	
EDB Advanced Server	31.500,00 €	42.000,00 €	52.500,00 €	
Server		8 Cores	1 Socket	
	TCO / 3 years	TCO/4 years	TCO/5 years	
Oracle SE2	25.220,00 €	28.562,00 €	31.904,00 €	
EDB Postgres Standard	29.400,00 €	39.200,00 €	49.000,00 €	
EDB Advanced Server	42.000,00 €	56.000,00 €	70.000,00 €	

Not considered:

- Discounts
- Different functionality of Oracle SE2 vs. EDB Postgres Standard vs. EDB Advanced Server
- Migration costs (analysis, migration, testing)
- Training

Oracle Support is bad

- It takes a long time until support starts working on my SRs
- .. And even longer until my issues are resolved
- .. Often there is no solution
- It's faster to find the solution yourself

- The support analysts do not understand me
- They always ask the same question for a single SR
- They want to keep the customer busy, to make their statistics look good
- ..

Features, features, features ..

- Other databases have more features
- We don't need all these Oracle features

Oracle doesn't like us anymore

- There was this nasty licence audit last month ...
- Last year I got some tickets for this nice Oracle customer event
 - This year not
 - And some people told me the event this year was much better
- Last week the Oracle sales representative won on the golf course
 - .. And this was the first time ever

Decision criteria

(Technical) Decision Criteria

- Compare the databases by feature
- Priorize the features
 - Required
 - Nice-to-have
- Evaluate the database products

(Technical) Decision Criteria - Example

- High Availability Solutions
- Scalability
- Backup & Recovery
- Security
- Monitoring
- Administration
- Support
- Availability of Patches & Upgrades
- Available tools
- Database Features
 - Partitioning
 - Compression
 - Encryption
 - Replication
- BLOB support
- Full-Text-Search
- JSON-Support
- XML-Support
- REST-API
-

Which databases to migrate?

Which databases to migrate (first)

- Simple databases
 - No or few Oracle specific features
- Databases from commercial vendors
 - Which support multiple databases
- The database can be the smaller part
 - Think about the clients and the applications

Why should I stay?

Open Source vs. Closed Source

- Oracle is "closed-source" and a "vendor-lock-in"
- A lot of database products offered by commercial vendors are based on open source
 - With additional features
 - Using these products is another kind of "vendor lock-in"
- The same applies to customized databases offered by some cloud providers
- Pure Open Source is an option, ...
 - But think about support

If costs are the argument ...

- Do not forget the "hidden" costs (beside licence costs)
 - Migration
 - Training
 - Operation
- Think about
 - Consolidating your Oracle Databases
 - Reducing the number of CPUs
 - Moving from Enterprise Edition to Standard Edition 2

Oracle Support is bad – Yes, but ..

- The are "good" and "bad" support analysts at Oracle
- We are all human beings – and even "good" support analysts have "bad" days
- Very often it's not the knowledge but simple misunderstanding
- It's probably the same with other commercial software vendors, too
 - They all want to cut costs
- If you migrate to pure Open Source software you rely on the community

Oracle is expensive ...

- Yes, it's expensive, ..
- But before moving to another platform, please think about
 - Is it possible to migrate your databases and applications?
 - How much does it cost? (migration, testing, modifications ..)
 - Training for your employees
 - Operating concept
 - Monitoring, Backup, etc.
- Keep your infrastructure simple
 - You are an IT specialist, not a zookeeper

Features, features, features ..

- Other databases have more features
 - But how do you manage with Oracle now?
- We don't need all these Oracle features
 - Downsizing to SE2 may be an option

Summary

Summary

- The database market becomes broader
 - New specialists (No-SQL database)
 - New generalists (RDBMS)
- Not every database application must run on Oracle
- But try to keep your environment simple
- It's not only about license costs
- Evaluate the database products and your databases carefully before starting a migration project

Questions & Answers

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