

Migration to Postgres from vision to reality

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Agenda

- Introduction Nibble IT
- Migration path
- Lessons learned
- Questions

Introduction Nibble IT

Privately owned company founded in 1990

- Trainings
- Project Leading
- Architects
- Consultancy
- DBA
- System Integration
- Migrations
- Reseller

INGRES

ORACLE[®]
DATABASE



EnterpriseDB[®]
The Enterprise PostgreSQL Company

Migration Path

Project choice

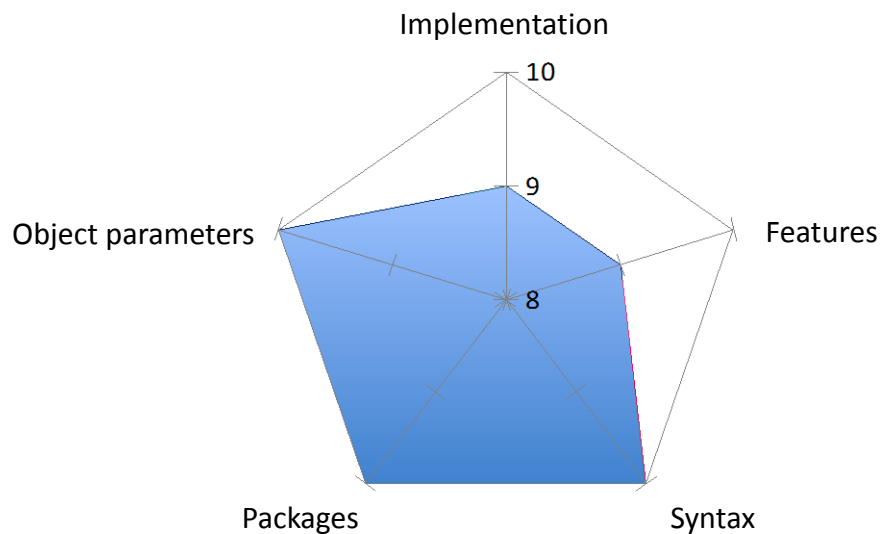
Assessment

Migration PoC

HA PoC

Performance PoC





- Features
 - Partitioned Indexes
 - Profiles
- Implementation
 - Compression
 - Encryption
 - Message Queues
 - GIS



Application Compatibility Index: 9

Migration PoC

- The demand is clear, a working application
- Step 1 : Data less Migration
- (Step 1a : Application Migration)
- Step 2 : Solve Problems
- Step 3 : Data Migration
- Step 4 : Test Application

Unexpected Problems:

Work around

Engagement Development team EDB

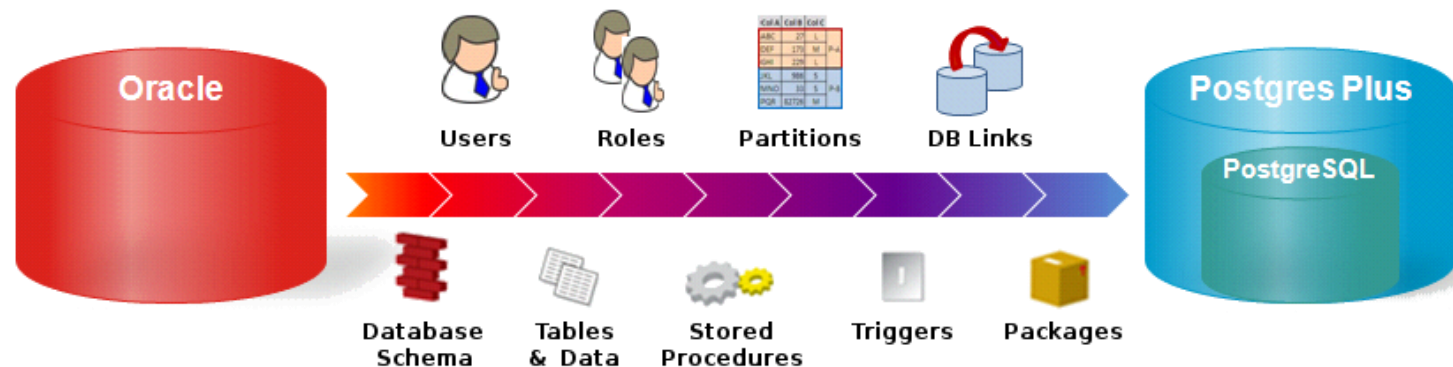
Redesign/Reprogram

Expected Problems:

Proactive approach

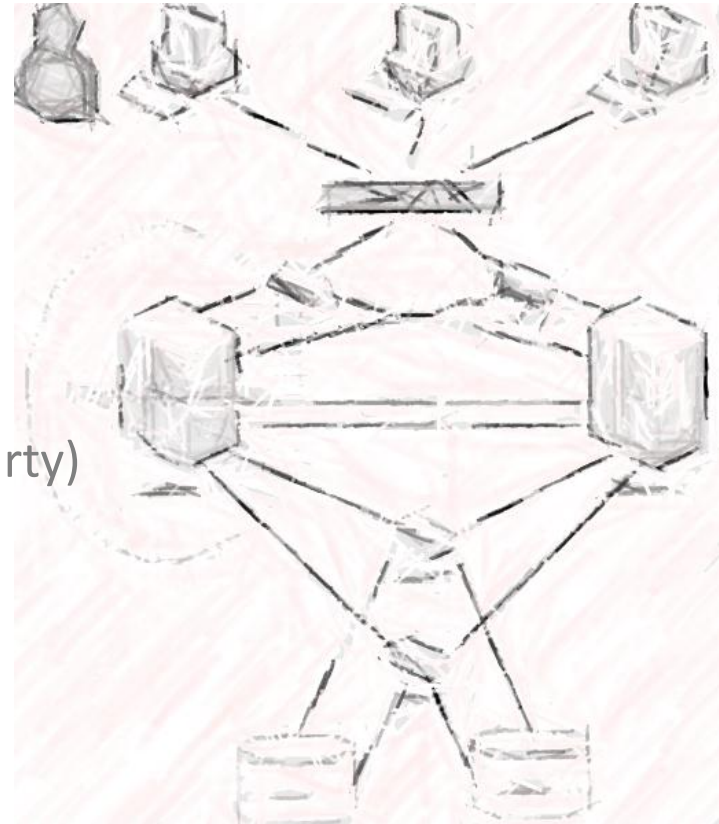
Work around

Redesign/Reprogram



High Availability PoC

- Get the demands clear, what is High Available?
- Postgres installations
- Back-up
- Recovery
- Local Failover
- Disaster Recovery
- Private/Public Cloud
- Replication (Storage/Postgres/Third Party)
- Cold/Warm/Hot Standby
- OS Clusters / VMWare / REV
- Storage
- Connection Pooling
- Test, test, test.....



- Get the demands clear, what is a good performance?
- Oracle compatibility means in syntax not in architecture
- Objective measurement is key (Get the user out the equation)
- Stress test application
- Test migration software
- OS Tuning
- Postgres Tuning
- Query Tuning
- Formal acceptance



Lessons Learned

- Every System can run on Postgres/EDB
- Only migrate what you need
- Own build applications vs Vendor applications
- Oracle compatibility from EDB boosts the migration
- Do not force 100% Oracle compatibility, look what is needed
- Phased approach
- Funding for PoC's
- Choose a partner with experience
- Manage ROI expectations
- Involvement (Architect/Programmer/DBA/Sysadm/Security Officer)
- Staffing
- Training
- Manage Risks
- Organisational commitment
- Grow towards mission critical over time



Questions



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