

# Speaker Introduction



**Name:** Benny Rutten

**Job:** Database Administrator

**Company:** Isabel Group

**Experience:** Air Defense controller (8 years), F16 Critical Supply Manager (5 years), Databases (23 years)

**Achievements:** Self-service Dev/Acc Postgres/Oracle environments, implemented RMQ, ElasticSearch

**Currently busy with:** Mostly Postgres, RabbitMQ, ElasticSearch

**Character flaw:** Critical thinker– not a herd animal. I tend to question illogical advice by the ,experts‘

**Former employers:** Belgian Air Force, Athylon, Uptime (Exitas/Zebanza)

# Isabel introduction



## AGGREGATED CONNECTIVITY

To 35 banks directly and over 200 indirectly



## TRUST & INDEPENDENCE

Trusted, independent party



## PARTNERSHIP & ECOSYSTEM

Partnerships are at the heart of our business model



## INNOVATION

Leverage Isabel Group's reach and benefit from rich ecosystem



## EXPERIENCE

Fintech pioneer with 25+ years of experience and expertise

## Our brands

 codabox

 clearfacts

 ibanity

 signhere

 zoomit

 bookmate

 ponto

isabel 

# Purpose of this presentation

- Explain why we have chosen for PostgreSQL as our primary RDBMS
- And why opt for EDB?

# Why not just stay with Oracle?

- Oracle is a top-class RDBMS (but so is Postgres)
- The Oracle license cost and inflexible licensing model
- Oracle's 'feature stress': extra cost options are easily enabled by accident
- Oracle SQL and Postgres SQL are 99% compatible

Also...

- Do we need thi\$\$\$\$



- If thi\$\$\$ can do the same?



# Postgres is:

- a **robust** relational database
- suitable for the **applications** now serviced by **Oracle**
- with a **flexible licensing** model, suited for **VM**
- and **7 x 24 customer support** (via an external partner)

# Required/desired **key features**

Core Database Features	Oracle	Postgres
<b>ACID transaction support</b>	Yes	Yes
<b>Crash recovery</b>	Yes	Yes
Cost-based optimizer	Yes	Yes
Data partitioning	Yes	Yes
Data compression	Yes	Yes
User-defined datatypes	Yes	Yes
Multi-terabyte database capable	Yes	Yes
High-speed, parallel data loader	Yes	Yes
Memory/distributed caching option	Yes	Yes
Connection pooling	Yes	Yes
JSON support	Yes	Yes

We **want** 24/7 support – our **data** is important

- From a **reliable partner**
- Based only on **effectively used** virtual CPU's
  - > see so called '**parking model**'



We opted for **EDB** Postgres because:

- Postgres Plus Advanced Server (PPAS)
  - An **Oracle compatible** version of Postgres (which we do not use)
  - 85% of Oracle's functionality ( > **100% of our needs**)
  - < **10 % TCO** compared to Oracle



# EDB – added value

- **Robust** support !
- Reliable productivity **tools**:
  - Postgres Enterprise Manager (**PEM**)
  - Backup tool (**BARMAN**)
  - Failover manager (**EFM**)

# What we did next:

- Included Postgres in our DB **portfolio**
- Designated Postgres as the **preferred** DB for new initiatives
- **Migrated** one newly developed application from Oracle to Postgres
- Set up **everything H/A** – the EDB license cost allows this easily

# What Postgres lacks

- SQL plan management (**SPM**) – but it does not need it
- **Flash back** database – but PITR is **solid**, and our data sets are **small**
- Database **recycle bin**

# What EDB does **well**

- EDB support:
  - average resolution time is **less than 1 hour**
  - You can actually **mail and call** the support team (!)
- EDB tools are top notch
  - Especially **BARMAN** and PEM work **flawlessly**
- EDB licenses are **'ALL IN'**

# What we did differently with Postgres

- All environments are H/A (from ACC through PRD)
- All applications are designed as 'micro services'

# What we **would do** differently

- Based on our knowledge '**then**'
  - We **moved away** from our standard **RDBMS**
- With our **current** Postgres experience
  - We would **opt for Postgres** because of its **qualities**