



JPMorganChase

The Migration Training

Robert (Rob) Latzsch
Enterprise Architect / Sales Engineer
March 2026

Speaker Introduction



Robert (Rob) Latzsch

Enterprise Architect / Sales Engineer

Rob is a Principal Solutions Architect at EDB with 25+ years of experience in database management and infrastructure.

Formerly at Oracle for over two decades, he specializes in high availability, disaster recovery, and large-scale migrations to Postgres. He is an expert in architecting mission-critical systems for enterprise-scale financial environments.



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The Migration Training

Gianni Ciolli
VP, Practice Solutions
March 2026

Speaker Introduction



Gianni Ciolli

VP, Practice Solutions

Gianni is Vice President at EDB, with 30 years of open-source expertise, contributing to PostgreSQL, BDR, repmgr and TPA.

Lead author of the PostgreSQL Administration Cookbook, he specializes in High Availability and Active-Active replication.

He holds a PhD in Mathematics and formerly led Professional Services at 2ndQuadrant.



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Agenda

- Core Features
 - Postgres Distribution
 - PL/SQL compatibility (EDB SPL)
 - Hierarchical queries
 - Synonyms, Catalog views & Database Links
- Performance
 - EDB Postgres Tuner
 - EDB Wait States
- Migration Tools
 - EDB SPL Check
 - EDB Migration Toolkit
- Break
- Demo

Agenda

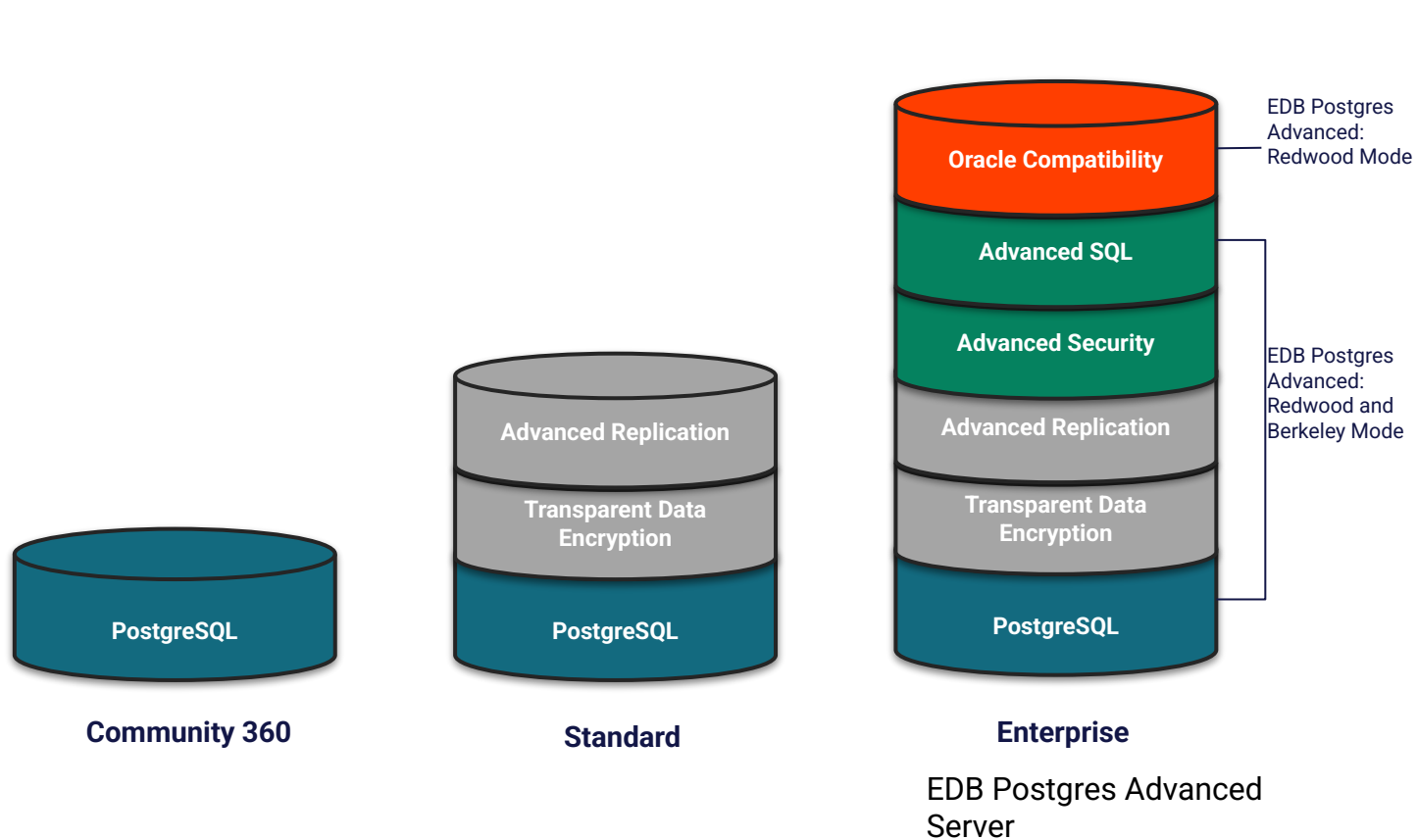
- Core Features
 - Postgres Distribution
 - PL/SQL compatibility (EDB SPL)
 - Hierarchical queries
 - Synonyms, Catalog views & Database Links
- Security and Governance
 - TDE
 - EDB *Wrap
 - Data Redaction and VPD
- Performance
 - EDB Postgres Tuner
 - EDB Wait States
- Migration Tools
 - EDB SPL Check
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Core Features



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Core Features: Postgres Distribution



Highly Secure

Code obfuscation, data redaction, and more enables EPAS to meet **stringent security requirements**



Enterprise Functionality

Automatic sub-partitioning, query execution hints, and more allow **additional performance tuning capabilities** for demanding apps



Easier Migrations

Realize the value of Postgres **faster and with less risk** with our deep Oracle compatibility

Core Features: PL/SQL Compatibility (EDB SPL)

- Procedures, cursors, DBMS_OUTPUT work natively
- Oracle SQL: ROWNUM, DUAL, SYSDATE, DECODE
- Same code runs on both platforms

```
CREATE OR REPLACE PROCEDURE list_emp IS ...
```

```
exec list_emp -- Works on Oracle AND EDB
```

Core Features: Hierarchical Queries

- `START WITH ... CONNECT BY PRIOR` fully supported
- `LEVEL` pseudo-column available
- No rewrite to recursive CTEs needed

```
SELECT empno, ename, mgr, LEVEL FROM emp
```

```
START WITH mgr IS NULL
```

```
CONNECT BY PRIOR empno = mgr;
```

Core Features: Synonyms & Database Links

- Synonyms: Private and PUBLIC supported
- Catalog Views: DBA_TABLES, DBA_VIEWS, DBA_USERS
- Database Links: OCI-based connections to Oracle

```
CREATE PUBLIC SYNONYM dept_details FOR  
miguser.dept;
```

```
CREATE DATABASE LINK oralink CONNECT TO
```

Security & Governance



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Security and Governance: TDE (Transparent Data Encryption)

- Cluster-level encryption with `--data-encryption`
- AES-128/256 supported via OpenSSL
- Verify: `SELECT data_encryption_version FROM pg_control_init()`

```
initdb --data-encryption -D /data_tde
```

```
hexdump -C <relfilenode> # Shows encrypted
```

Security and Governance: EDB *Wrap

- Obfuscate PL/SQL source code
- Same workflow as Oracle WRAP utility
- Source hidden in pg_proc.prosrc

```
edbwrap -i list_emp.sql # Creates .plb file
```

```
\i list_emp.plb # Load wrapped code
```

```
\sf list_emp # Shows obfuscated
```

Security and Governance: Data Redaction

- DBMS_RLS.ADD_POLICY for row filtering
- SYS_CONTEXT for session-aware predicates
- Transparent to applications

```
-- salesmgr sees only deptno = 10
```

```
DBMS_RLS.ADD_POLICY(object_name => 'dept',  
  
    policy_function =>  
  
    'restrict_salesmgr_dept');
```

Performance



Performance: EDB Postgres Tuner

- Auto-analyzes workload and hardware
- Generates ALTER SYSTEM statements
- Key params: shared_buffers, effective_cache_size, work_mem

```
SELECT edb_pg_tuner_recommendations('sql');
```

```
-- ALTER SYSTEM SET shared_buffers = '64 GB';
```

Performance: EDB Waits States

- Real-time wait event tracking
- Session-level diagnostics
- Historical sampling for analysis

```
CREATE EXTENSION edb_wait_states;
```

```
SELECT min(sample_time), max(sample_time)
```

```
FROM edb_wait_states_data();
```

Migration Tools



Migration Tools: Schema Assessment and Conversion

- Migration Toolkit: Schema + data migration
 - `./runMTK.sh -tables EDBTABLE MIGUSER`
 - Oracle JDBC driver required
- Migration Portal CoPilot: AI-assisted assessment
 - Web-based, no installation
 - Complexity scoring and recommendations

Migration Tools: Connectivity & Validation

- SPL Check: Static analysis for PL/SQL code
 - *Catches column errors, type mismatches pre-runtime*
 - *SELECT * FROM spl_check_function_tb('f1()')*
- EDB Plus: Oracle SQL*Plus compatible CLI
 - edbplus user/pass@host:port/db

Demo



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4. Q&A + Next Steps

Thank You