CYBERTEC SCALEFIELD

FULL STACK POSTGRESQL

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SCALEFIELD: COMPREHENSIVE POSTGRESQL

Scalefield is a single platform based on **Kubernetes / OpenShift** that unifies all our solutions on a single, easy to use platform:
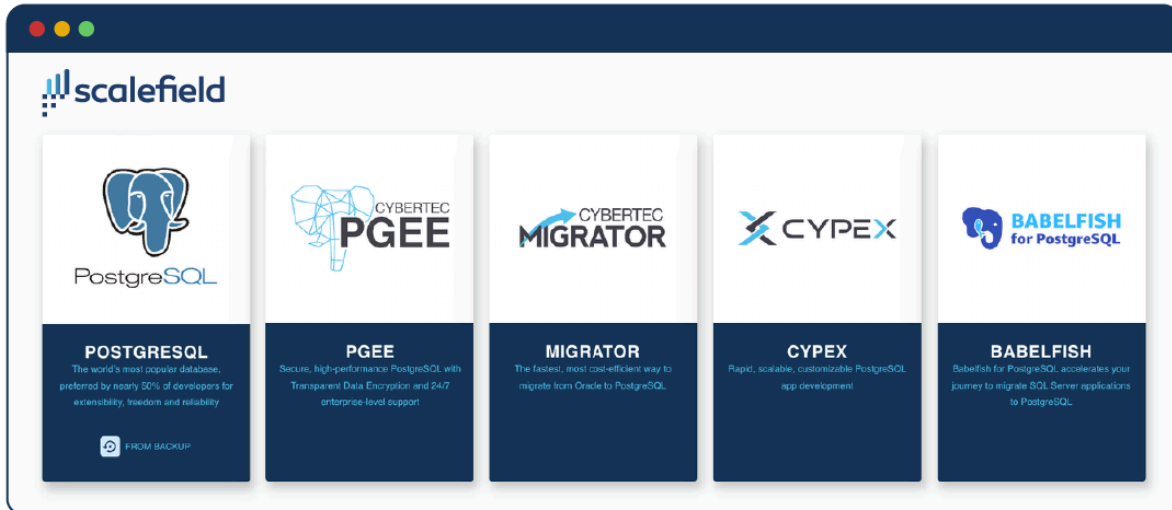
SCALEFIELD PRODUCTS

Scalefield incorporates the main product stack, including:

- **Scalefield PostgreSQL Automation:**
  - PostgreSQL as a Service for Kubernetes / OpenShift
  - **PGEE:** PostgreSQL Enterprise Edition
- **CYBERTEC Migrator:** Oracle to PostgreSQL Migration
- **CYPEX:** Low Code Application Development
- **Babelfish for PostgreSQL:** MS SQL compatibility for PostgreSQL
- **pg_deep_thinker:** "Machine driven PostgreSQL consulting"
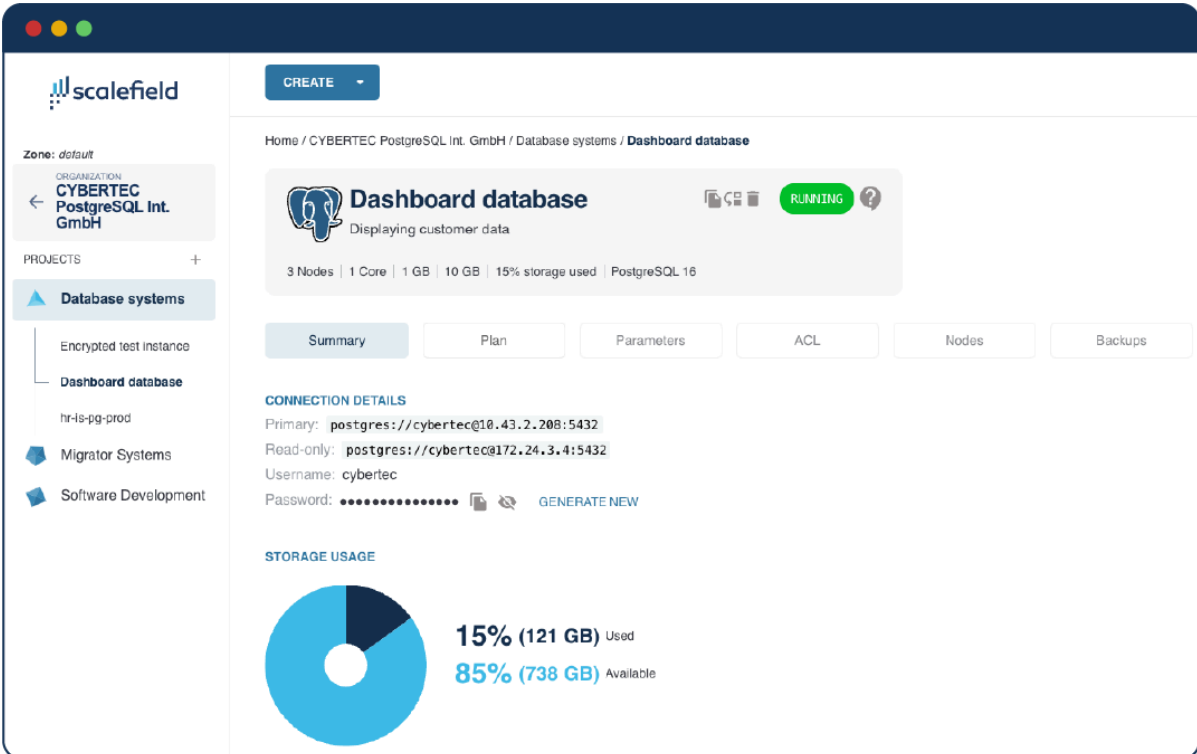- **Scalefield Secure:** Compliance Monitoring for Oracle, PGEE and PostgreSQL

Scalefield is a 100% Kubernetes-based solution that allows customers to directly deploy their own private cloud and integrate with public clouds, offering full visualization.

All products are also available separately; however, **full integration** provides customers with many benefits that cannot be enjoyed when deployed separately:

- A single **compliance report**
- **Automatic backups** for all products
- Integrated automation
- Faster **security updates**
- **Better** user **experience**

CYBERTEC
POSTGRESQL SERVICES & SUPPORT

SCALEFIELD POSTGRESQL AUTOMATION

Scalefield PostgreSQL **Automation** allows you to quickly deploy various flavors of PostgreSQL such as PostgreSQL and CYBERTEC PostgreSQL Enterprise Edition (**PGEE**). Quickly **deploy** and automate your database platform in a **user friendly** environment:

Scalefield PostgreSQL Automation provides out of the box services including:

- High-Availability out of the box
- Easy scalability and dynamic resizing
- Integration with backup and recovery tooling
- Automated monitoring
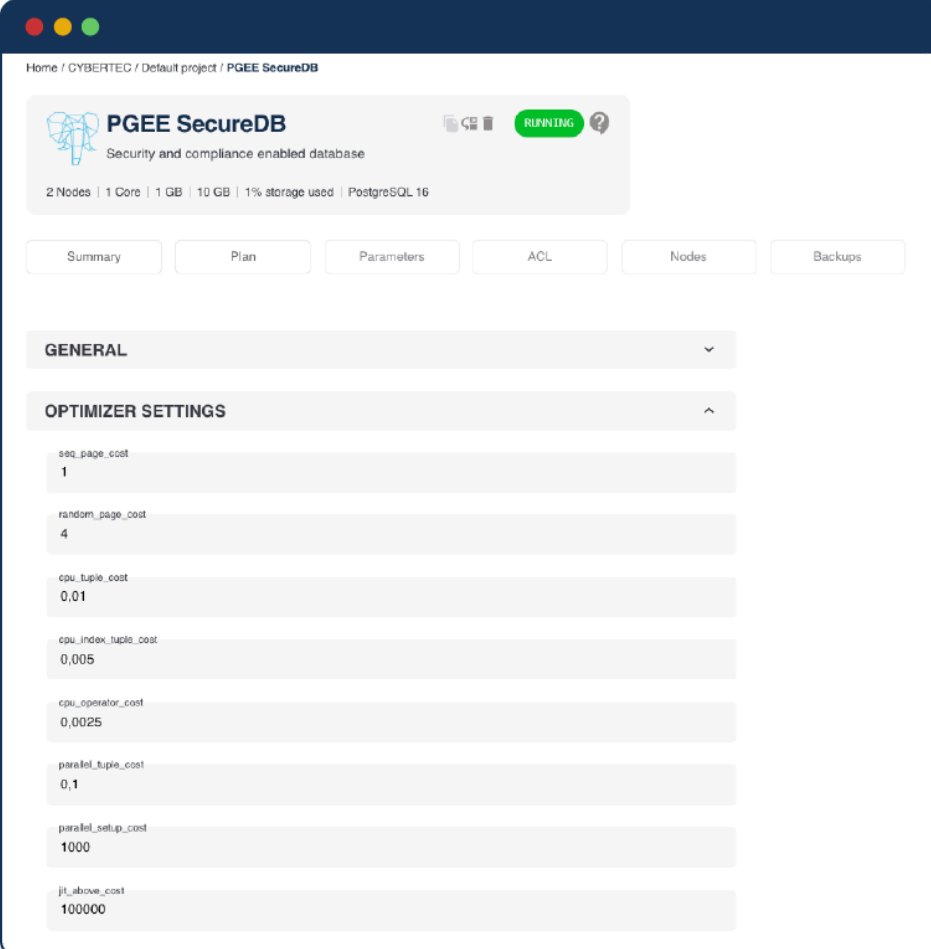- Compliance enabled

kubernetes **OPEN**SHIFT
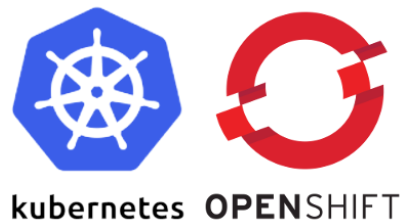
PGEE: CYBERTEC ENTERPRISE POSTGRESQL

PGEE is a commercial version of PostgreSQL that allows customers to make use of advanced features such as:

"Transparent Data Encryption"

It provides countless features which make it **attractive to clients** across various sectors of the industry, including, but not limited to:

- **Finance** and **Banking**
- High-**Security** computing
- Medical and health
- **Government** and law enforcement agencies

We offer **additional features** on top of PostgreSQL, including:

- Transparent Data **Encryption** (TDE)
- Stored Procedure **Encryption**
- Enterprise-level **auditing**
- Anomaly detection
- Data masking and **obfuscation**
- **Advanced optimizer** improvements

CYBERTEC PostgreSQL Enterprise Edition (PGEE) is important to all clients needing extra security as well as **compliance** with modern IT standards:

- ISO 27001
- TISAX
- SFCA
- POPI-A
- GDPR
- HIPAA
- … and many more …
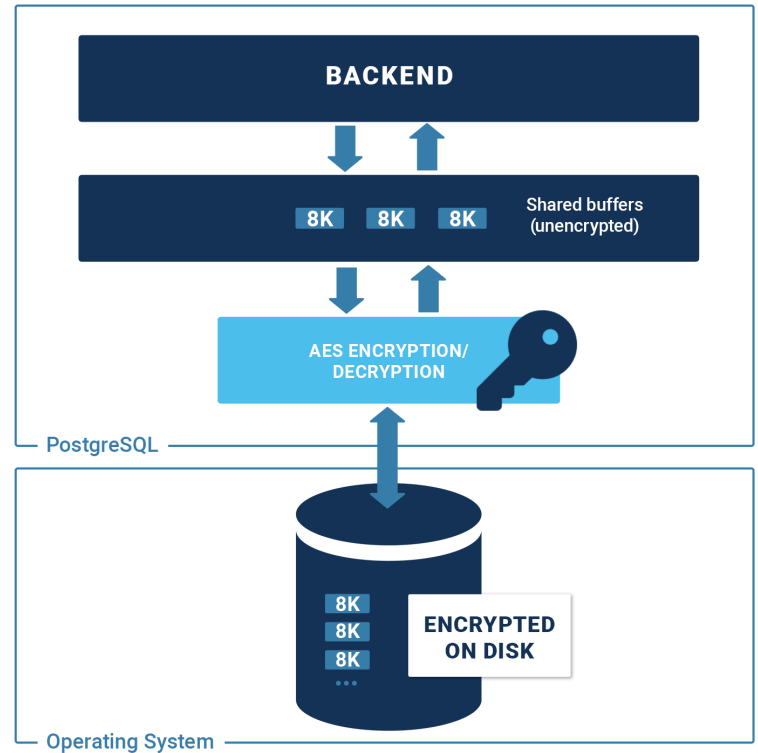

"Professional database compliance for PostgreSQL"

Fixing real world problems

CYBERTEC MIGRATOR FOR ORACLE

CYBERTEC Migrator is the entry ticket to our ecosystem, enabling customers to migrate their legacy databases to a new infrastructure.

We offer expert level tooling for high-performance migration, designed to serve various purposes:

- **Bulk assessment** for large **Oracle** customers
  - Get a handle on **big infrastructures** in no time
  - Provide a **migration roadmap** to clients
- **Enable partners** and **customers** to migrate
  - Provide expert tooling
  - Help with quick migration
- **Migrate** to PostgreSQL **at scale**
  - Cutting edge transfer speeds (> 1.4 GB / sec)
  - Optional zero downtime migration
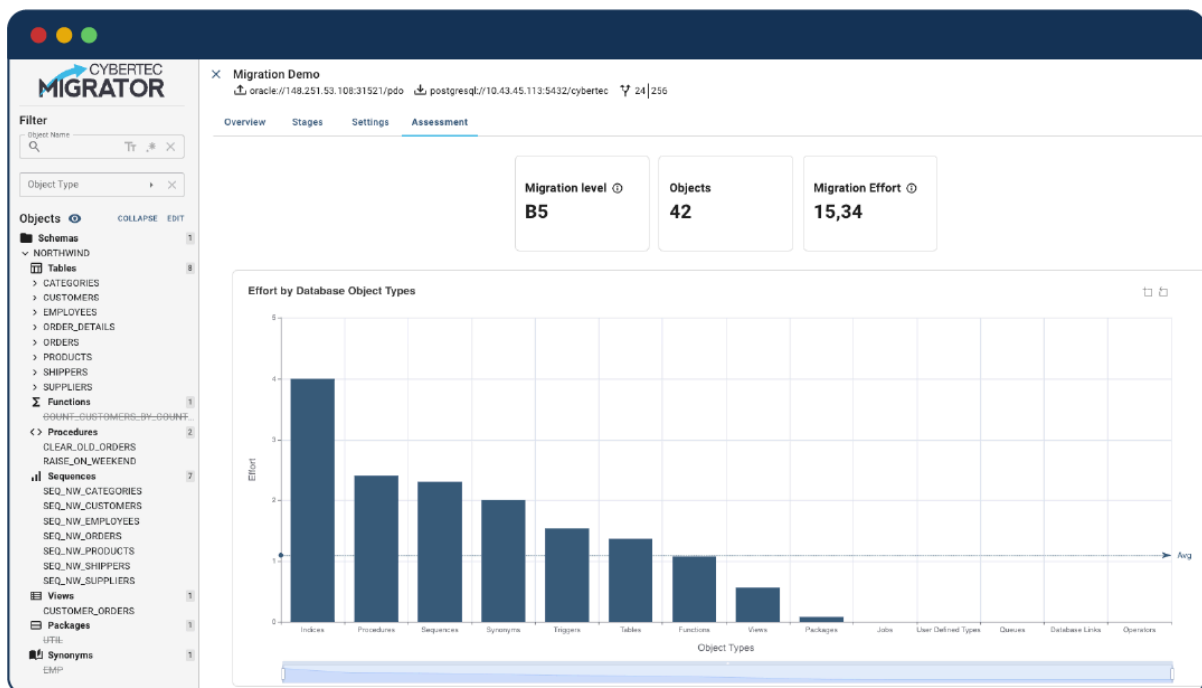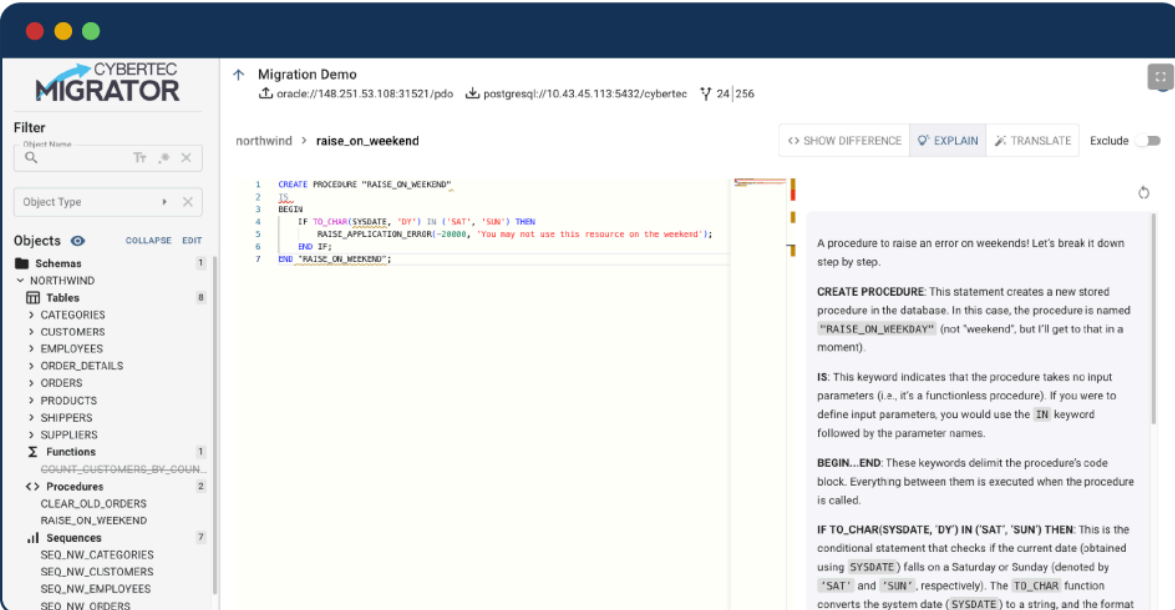
Migration from Oracle to PostgreSQL has never been easier:

- Move Oracle to cloud solutions (Azure, GCP, AWS, etc.)
- Migrate to on-premise solutions

Stored procedures have always been a major hurdle when migrating away from Oracle. CYBERTEC Migrator simplifies this process with modern **AI technology**:

"AI assisted code explanation"

With AI-assisted code explanation, developers can understand complex code faster and more efficiently:

The CYBERTEC Migrator assists with **code** pre-**translation** by using modern technology tailored to the problem.

We fully comply with EU AI regulations. All code processing happens within Scalefield, ensuring that no customer source code is sent to public APIs. This means:

- Maximum **compliance** with regulations
- Maximum **digital independence**
- **Zero** external **dependencies**
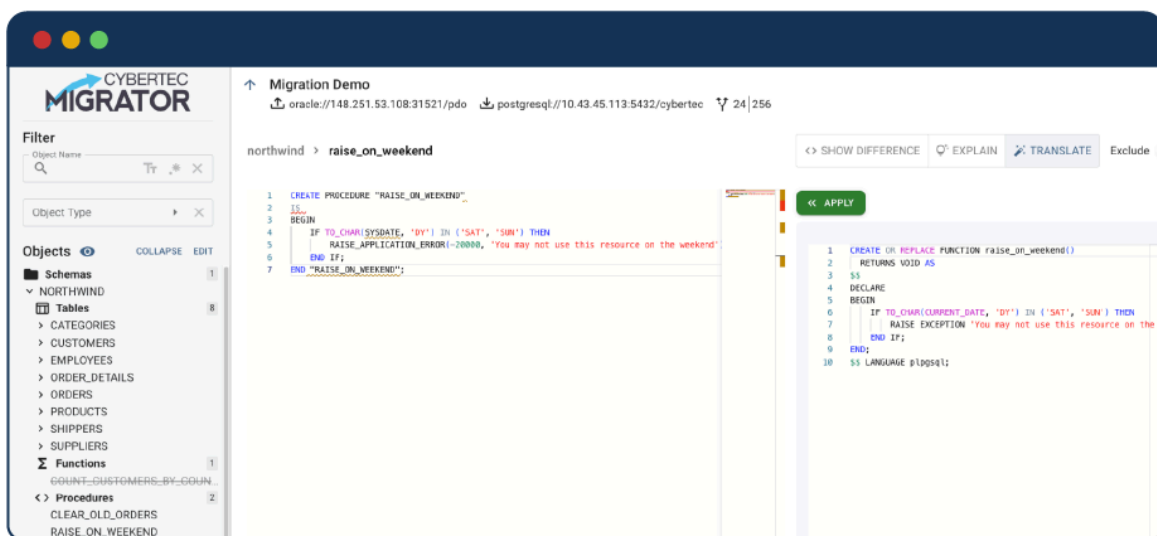
Code translation has many **advantages**:

- **Migrate** code up to 80% **faster**
- Improve code **quality**
- **Finish** migration projects faster
- **Enable developers** to understand code more quickly
- Add **database optimizations**

CYPEX: LOW CODE DEVELOPMENT FOR POSTGRESQL

With **CYPEX**, you can build customer specific applications in remarkably short timeframes. Workflows, dashboards, maps, forms – CYPEX makes it all possible within minutes.
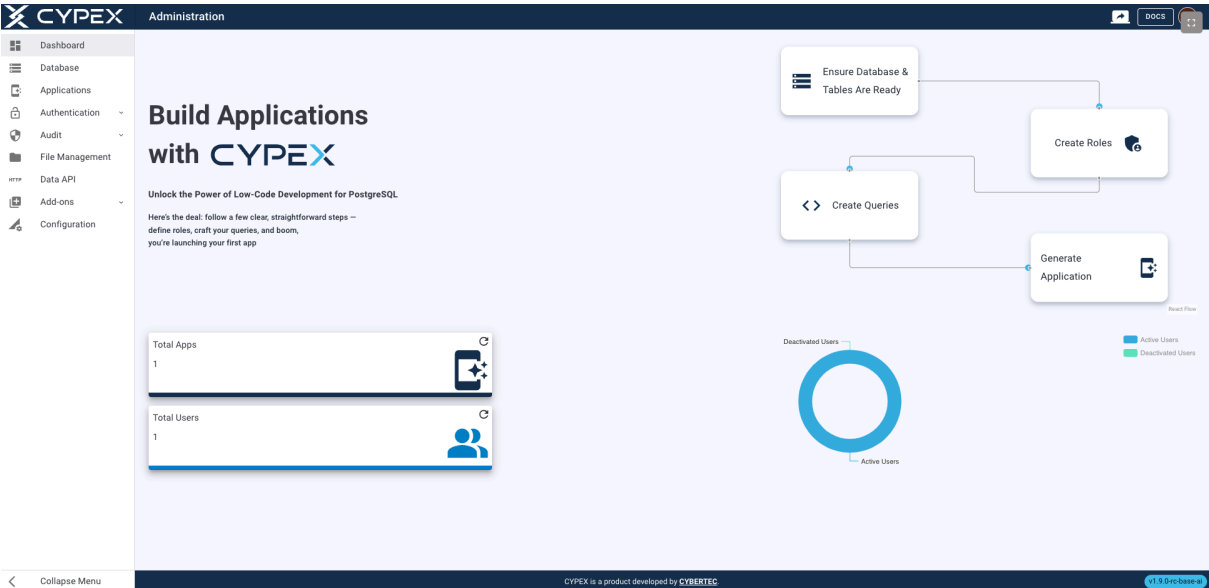
What **problem** are we **solving**?

Modern software development is often hindered by

- Information loss
- Repetitive tasks
- Inefficient requirements gathering
- Slow feedback

Software Development:
The Holy Trinity of excuses

SOFTWARE DEVELOPER EDITION

"We need at least 5 years for this"

"We need a big team"

"This is impossible"
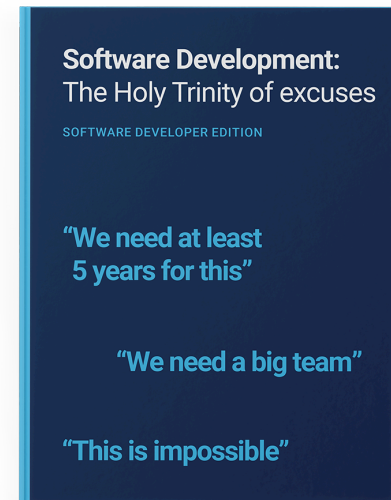
CYPEX is addressing these challenges. We enable the creation of data models in hours rather than days, using those data models to predict applications quickly. These applications can then be modified as needed.

Our approach offers numerous benefits:

- Gather specifications **quickly**
- Quick **prototyping** and efficient demos
- Minimal time to market
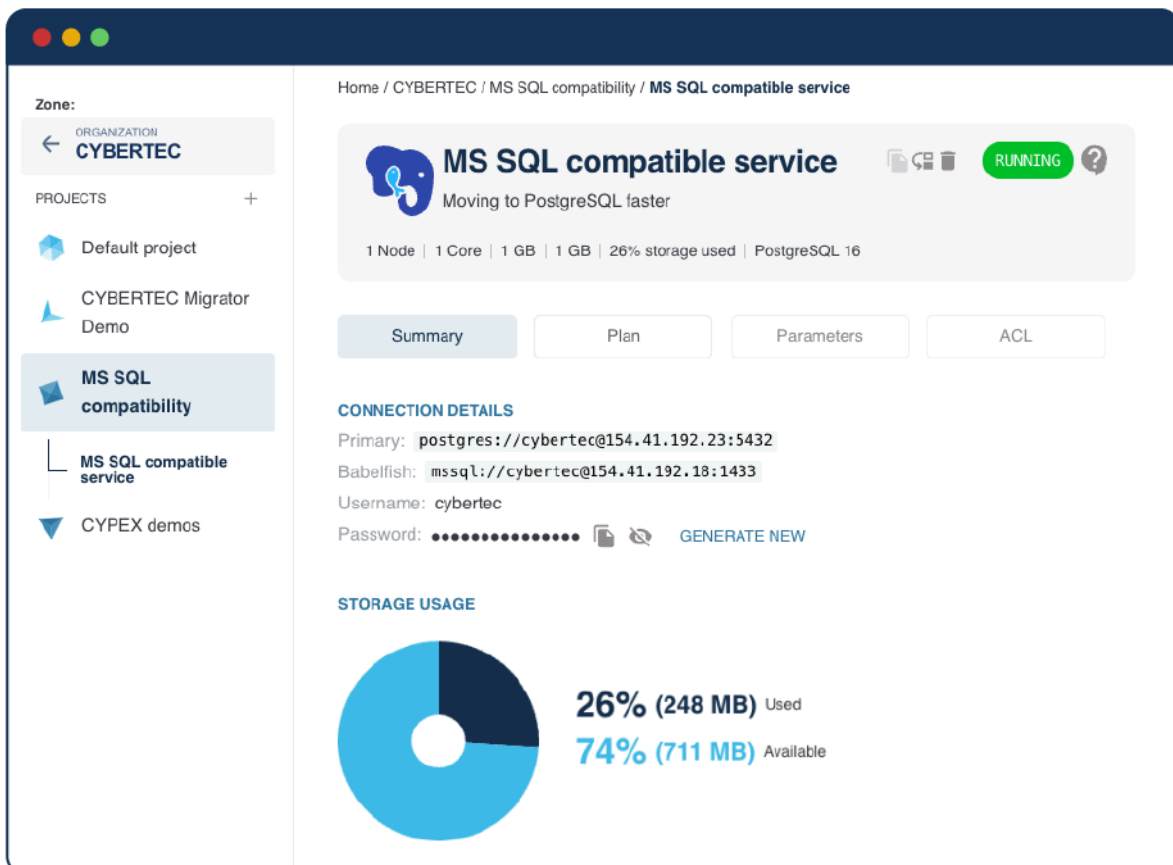- **Build applications cheaper** than ever before

BABELFISH FOR POSTGRESQL: BRINGING AN END TO MS SQL LICENSING

What are the challenges of Microsoft SQL Server?

- Escalating license costs
- High support cost
- Technically outdated legacy solution
  - Poor locking and concurrency behavior
  - Subpar transactional behavior

These issues drive many customers away from MS SQL. But what does this process look like in real life? Consider a customer running 1.000 MS SQL Server who is eager to migrate:

- They must talk to 200 application owners
- They must launch 200 migration projects
- The migration takes years to complete
  - Meanwhile, license cost keeps piling up

Babelfish for PostgreSQL comes to the rescue. It can run inside Scalefield providing countless advantages to customers.
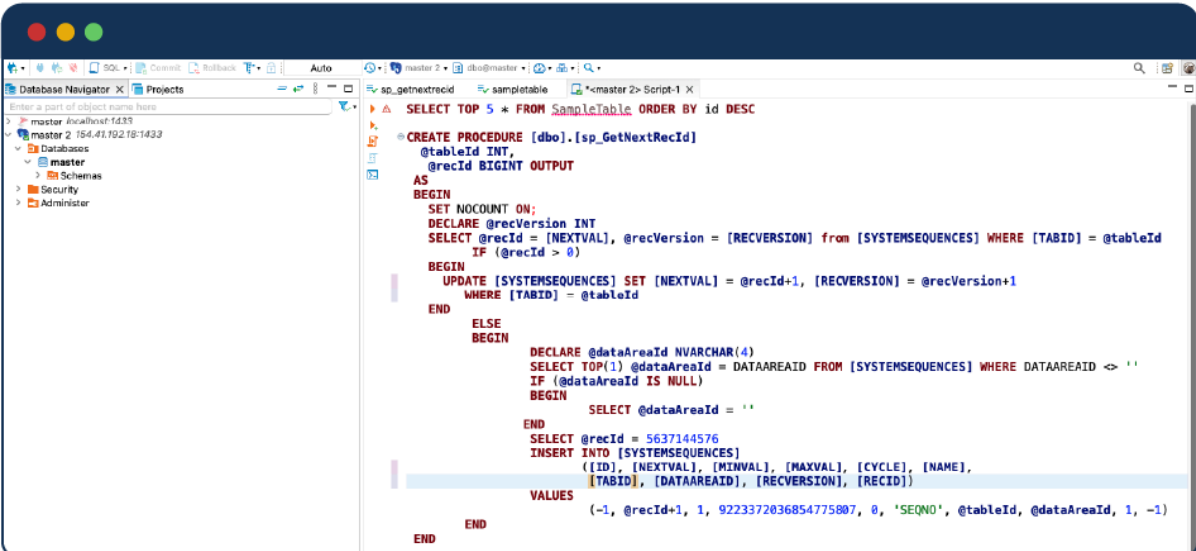
A CHEAPER SOLUTION WITHOUT TOUCHING THE APPLICATION

This means we can **move customers** to an MS SQL compatible solution (in 60-80% of all cases) **without launching a migration project**.

Key benefits include:

- Instant cost saving
- No migration project
- Improved automation
- Maintaining compliance

Babelfish behaves just like MS SQL making it an ideal solution for all clients aiming to cut expenses quickly:
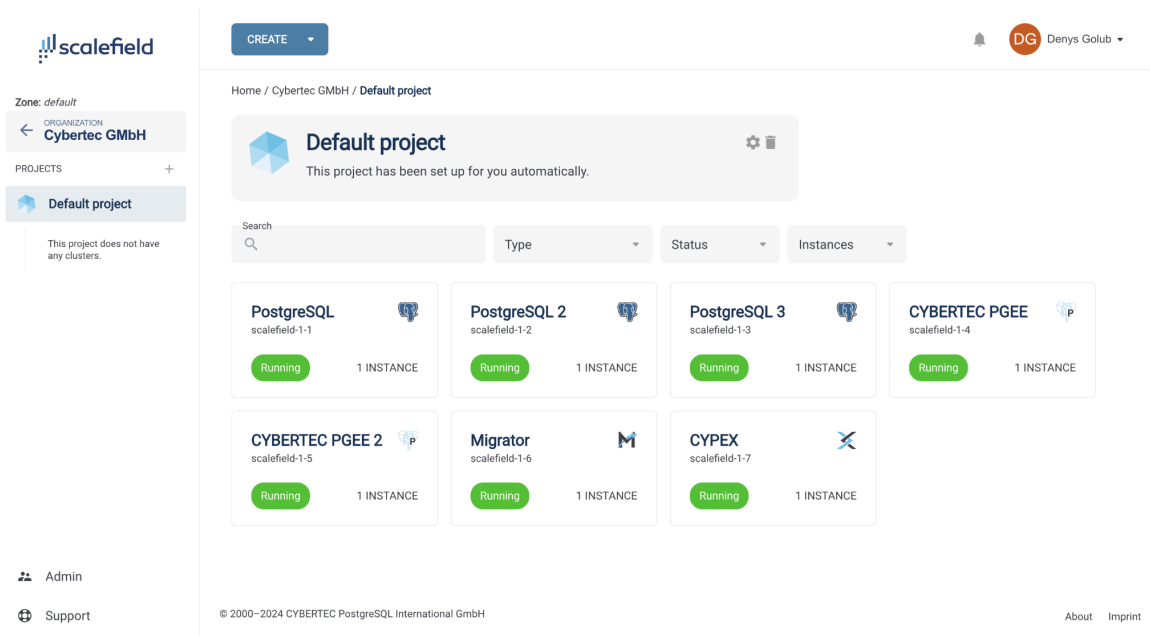
PROVING VALUE TO CUSTOMERS

Each product can be marketed individually; however, the power of integration enables us to offer a **single package** that includes everything:

By marketing **Scalefield** as a product that allows a customer to deploy every single solution as part of a larger product, we can fully benefit from tight integration:

- Integrated **support** and consulting
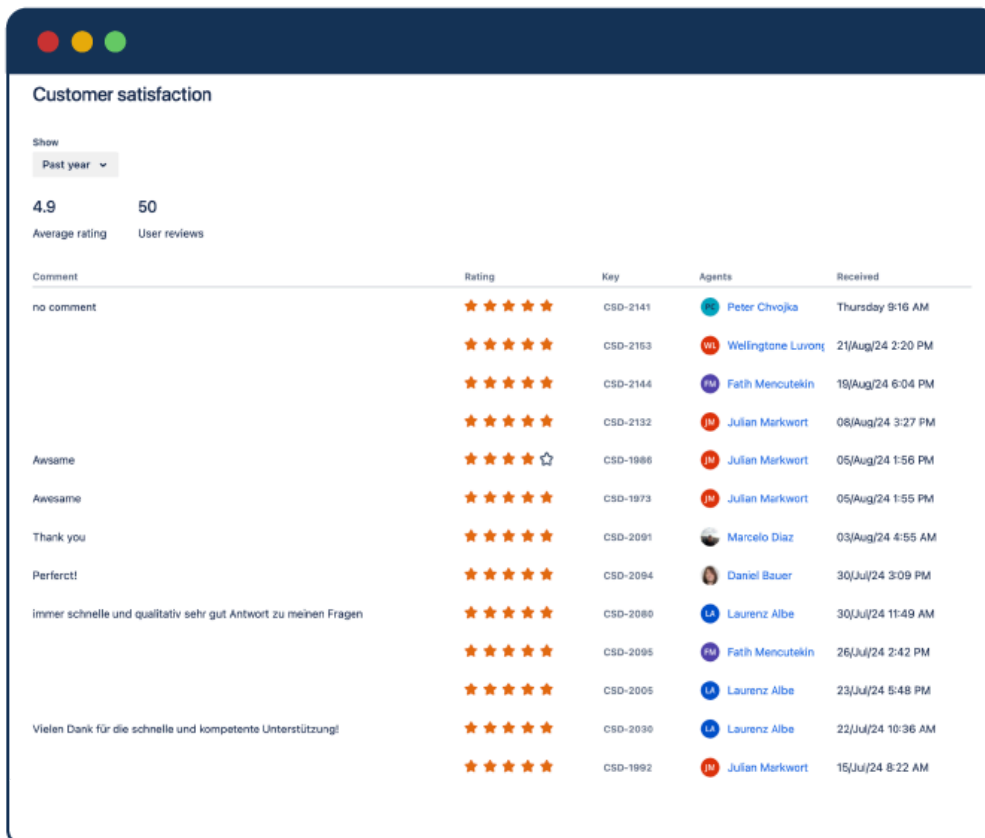- More oversight over **resource** usage
- More streamlined **customer experience**
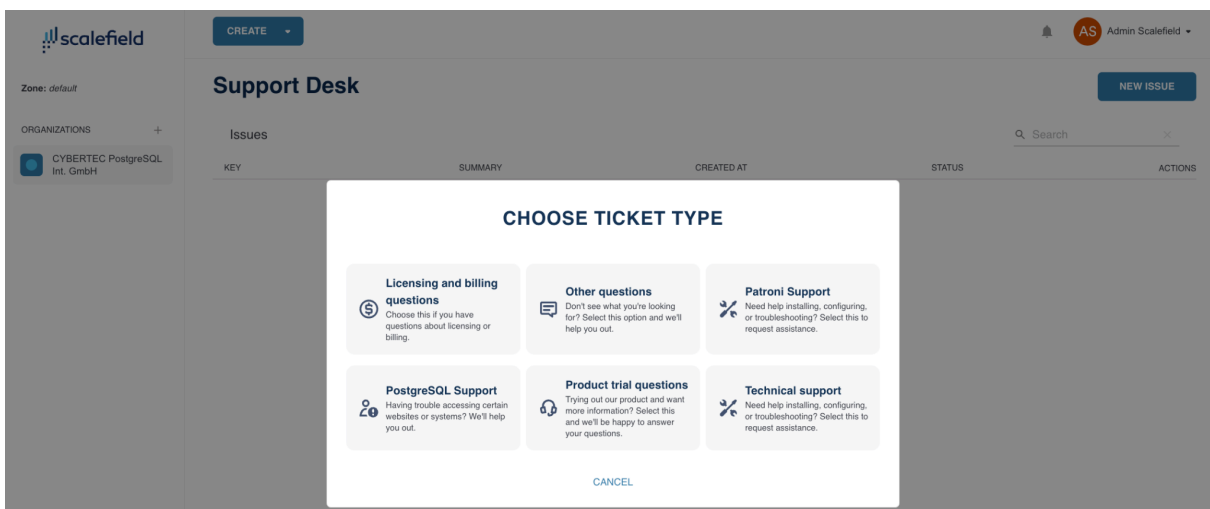
Finally, we fully integrate with **CYBERTEC support services** to ensure that customers have a single point of contact for all potential issues.

SERVICE STRATEGY: EXCELLENCE MATTERS

At CYBERTEC, we place a strong emphasis on **professionalism at every level**. This is evident in our feedback, flawless **SLA** statistics, and overall customer **satisfaction**, enabling us to achieve:

- **Long term** customer relationships
- Excellent customer **satisfaction**

We never have, and never will, sacrifice short-term profits over long-term **customer satisfaction**, as we consider unhappy customers to be the worst investment known to us.

VERSION HISTORY

Version	Effective Date	Description	Author	Reviewed By	Approved By
1.0	2025-01-07	Finishing writing and layouting the document	Hans-Jürgen Schönig	Patricia Horvath	Cornelia Biacsics

If you need further information

For more information, or if you have any questions about our range of products, tools and services, contact us. There's no obligation—send us an inquiry via email or give us a call.

ISO 27001 CERTIFIED

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