

CYBERTEC SCALEFIELD

TECHNICAL GUIDE

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SCALEFIELD: COMPREHENSIVE POSTGRESQL

Scalefield is a unified platform built on Kubernetes / OpenShift that integrates all our solutions into a single, easy-to-use system.

This document provides an overview of the general architecture and highlights use cases to help customers utilize the platform as efficiently as possible.





SYSTEM ARCHITECTURE

This section describes the general system architecture of CYBERTEC Scalefield and outlines the deployment options available to customers.

TECHNICAL REQUIREMENTS

Scalefield is capable of operating on various platforms, which include:

- Bare metal servers
- Virtual machines (VMWare, Promox, etc.)
 - On-premise
 - Cloud deployments
- Kubernetes / OpenShift / Rancher
 - On-premise
 - Cloud deployments

The following system architectures are supported:

- Linux on x86_64 (Intel, AMD)
 - Ubuntu 22.04 or higher
 - Debian 12 or higher
 - RedHat compatible Linux (RHEL 8/9 or higher)
- Linux on ARM

NOTE: For local test deployments, we offer a standalone OS X version (with some restrictions), mostly intended for demonstration purposes.

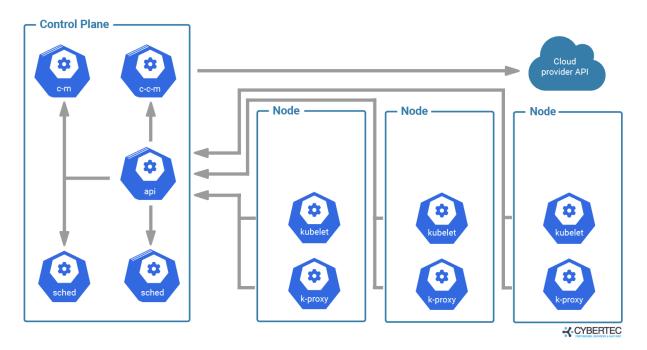
Scalefield requires a minimum of **16 GB or RAM per Kubernetes node**, with significantly more recommended for large deployments.

Support versions of Kubernetes: v1.21 - 1.28.3



SCALEFIELD CLUSTER LAYOUT

Kubernetes provides us with all the scalability needed to operate Enterprise database deployments at scale. The general layout of a cluster running Scalefield is as follows:



On top of Kubernetes / OpenShift container orchestration, Scalefield will run all services essential to a cutting edge user experience. This includes various components, including:

- Graphical user interface
- Backup and recovery automation
- Inventory database
- CYBERTEC Services
 - PostgreSQL
 - CYBERTEC Enterprise PostgreSQL
 - CYBERTEC Migrator
 - CYPEX low code
 - Babelfish MS SQL compatibility
- Monitoring and log management
- Compliance and security modules





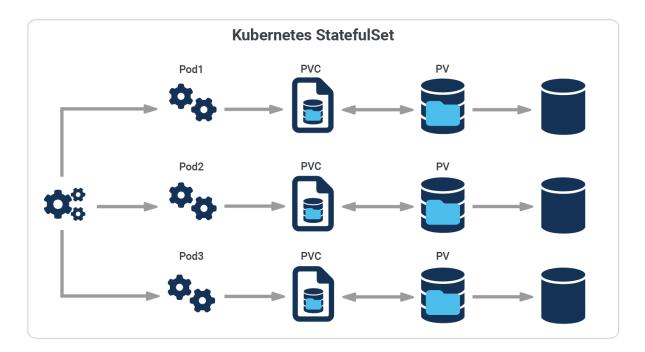
SCALEFIELD STORAGE OPTIONS

Scalefield supports various storage options provided by Kubernetes. The following options are available:

Storage type	Performance	Scalability
Local storage	Extreme performance	Limited by local disk
Distributed block storage	High performance	High-Scalability
SAN storage	Extreme performance	High-Scalability
Cloud storage	-	High-Scalability

Scalefield is based on Kubernetes-compatible services, including OpenShift, SUSE Rancher, or publicly available cloud services, such as Amazon EKS.

As far as storage is concerned, Scalefield needs a "PVC" (= Persistent Volume Claim) provided by Kubernetes.



Scalefield can operate with storage classes of your choice to run small, as well as scalable database services.



Kubernetes / OpenShift provide all the abstraction needed to integrate Scalefield with Enterprise storage solutions:

- Dell EMC PowerMax and PowerStore
- Hewlett Packard Enterprise (HPE) Primera and Nimble
- Hitachi Vantara Virtual Storage Platform (VSP)
- IBM FlashSystem
- Infinidat InfiniBox
- NetApp All Flash FAS (AFF)
- Pure Storage FlashArray

This capability enables Scalefield to operate in diverse environments with scalability while adhering to industry standards.

HIGH-AVAILABILITY BY DESIGN

Database work is by definition, critical, and downtime is not acceptable. To reflect this reality, Scalefield provides High-Availability by design and out of the box.

"High-Availability by design from the start"

By default, Scalefield allows you to configure the desired level of redundancy. Simply move the slider and make the system handle as many replicas as needed:

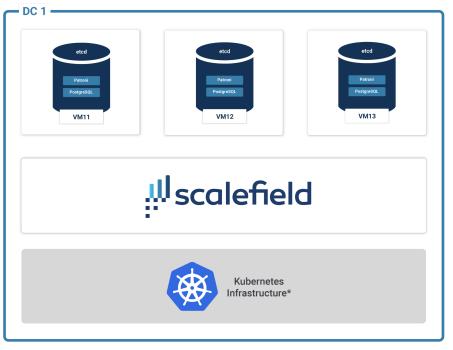
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PostgreSQL version					
REPLICAS					
0 1 2	 3 4 5	 6 7 8 9	10		



Behind the scenes, Scalefield will deploy a **Patroni cluster** which provides us with

- Automatic failover
- Fully automated recovery
- Shared nothing architecture

Scalefield will deploy various PostgreSQL nodes inside the Kubernetes cluster, ensuring 100% redundancy in case of a node failure. By careful orchestration, Scalefield makes sure that all members of the cluster reside on different host systems to guarantee fault tolerance and scalability at every level:



*Can be Kubernetes or a Kubernetes distribution such as OpenShift or Rancher.

To external applications, Scalefield exposes the cluster using different IPs and ports, simplifying the use of replicas for purposes such as:

- Read scalability and load balancing
- Analytics and statistics

ORCHESTRATION AND API ACCESS

Scalefield not only provides an intuitive user interface but also enables seamless integration through ready-to-use API endpoints, simplifying connectivity with other systems and applications.

The Scalefield REST API offers a JSON-based interface, exposing all key aspects of the infrastructure for advanced orchestration.



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

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^{III} scalefield				
PostgreSQL	CYBERTEC		CYPEX	For PostgreSQL
POSTGRESOL The word's most growing diabase, prograd by narby 50% developers for econobility, twedow and reliability (Second BACKUP)	PGEE Secure, high-performance PostgresSOL with Transparent Data Encrystikin and 24/7 enterprice-level cupport	MIGRATOR The fastest, most cast-efficient way to migrate from Oracle to PostgreSQL	CYPEX Rapid, scalable, castonizable PostgreSGL app development	BABELFISH Babelfish for Posigne SOL accelerates your journey to migrate SOL Server applications to PostgreSOL

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

All products are also available separately. However, **full integration** offers customers numerous benefits that are not available when deployed separately:

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



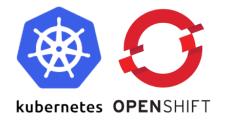
SCALEFIELD POSTGRESQL AUTOMATION

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:

•••	
^{រ្អា} scalefield	CREATE -
Zone: detault	Home / CYBERTEC PostgreSQL Int. GmbH / Database systems / Dashboard database
	Displaying customer data
PROJECTS +	3 Nodes 1 Core 1 GB 10 GB 15% storage used PostgreSQL 16
A Database systems	
Encrypted test instance	Summary Plan Parameters ACL Nodes Backups
Dashboard database hr-is-pg-prod Migrator Systems Software Development	CONNECTION DETAILS Primary: postgres://cybertec@18.43.2.208:5432 Read-only: postgres://cybertec@172.24.3.415432 Username: cybertec Password: Image: Cybertec@172.24.3.415432 Username: cybertec Password: Image: Cybertec@172.24.3.415432 Username: Cybertec@172.24.3.415432 Username: Cybertec@18.43 STORAGE USAGE 15% (121 GB) Used 85% (738 GB) Available Storage: Cybertec@18.435

Scalefield PostgreSQL Automation provides ready-to-use services, including:

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





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 industries, including but not limited to:

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

Home / CYBERTEC / Default project / PGEE SecureDB
PGEE SecureDB
Summary Plan Parameters ACL Nodes Backups
GENERAL
OPTIMIZER SETTINGS ^
seq_page_cost 1
random_page_cost 4
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cpu_index_tuple_cost 0,005
cpu_operator_cost 0,0025
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paralel_setup_cost 1000
jit_above_cost 100000

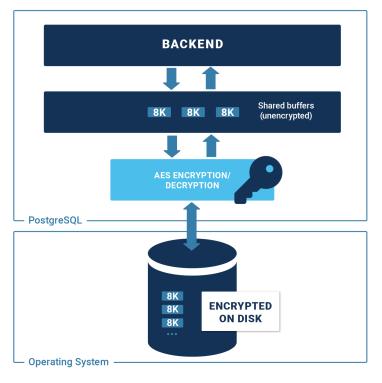


We offer additional features on top of PostgreSQL, such as:

- 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

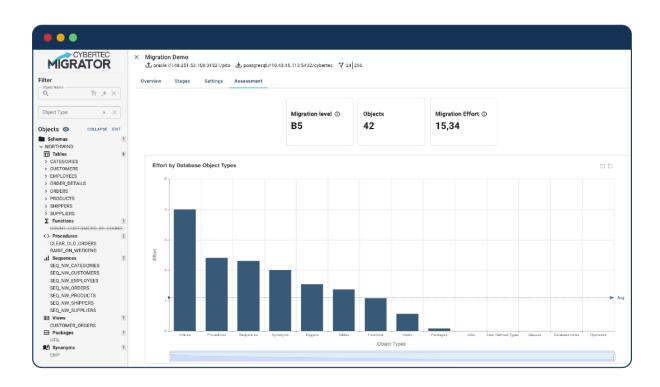


CYBERTEC MIGRATOR FOR ORACLE

The **CYBERTEC Migrator** is the entry ticket into 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:

•••		
	↑ Migration Demo	
Citer Q. Tr.,≉ ×	northwind > raise_on_weekend	↔ SHOW DIFFERENCE ♀ EXPLAIN ✗ TRANSLATE Exclude
Object Type → Object ③ COLLAPSE EDT ■ Schemas 1 > NORTHWIND ■ □ Tables ■ > CATEGORIES ■ > CADERORES ■ > CONDERS > > SUPPLIVEES > > ORDERS > > SUPPLIERS 3 > SUPPLIERS 1 COLLAR_OLLORDERS 2 CLEAR_OLLORDERS 2 SEQ_NW_CATEGORIES 2 SEQ_NW_CORDERS SEQ_NW_CORDERS SEQ_NW_CORDERS SEQ_NW_CORDERS	<pre>Summary Control of State State</pre>	A procedure to raise an error on weekends! Let's break it down step by step. CREATE PROCEDURE: This statement creates a new stored procedure in the database. In this case, the procedure is named "RAISE_ON_WEEKBAY" (not 'weekend', but I'll get to that in a moment). IS: This keyword indicates that the procedure takes no input parameters (i.e., it's a functionless procedure). If you were to define input parameters (i.e., it's a functionless procedure). If you were to define input parameters names. BEGINEND: These keywords delimit the procedure's code block. Everything between them is executed when the procedure is called. IF TO_CHAR(SYSDATE, 'DY') IN (SAT', 'SUN') THEN: This is the conditional statement that checks if the current date (bitained using SYSDATE) (alls on a Saturday or Sunday (denoted by 'SAT' and 'SUK', respectively), The TO_CHAR (Inction converts the system date (SYSDATE) to a string, and the format



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

	↑ Migration Demo				
Object Name	northwind > raise_on_weekend	↔ SHOW DIFFERENCE	Q ^{°,} EXPLAIN	🖉 TRANSLATE	Exclude (
Object Type	1 CREATE PROCEDURE "HAISE_ORLWEEKIND" 2 IS_ 3 BEGIN 4 IF T0_CHARISYSDATE, 'DY'1 TH ('SAT', 'SM') THEM 5 RAISE_APPLICATION_EBRORM-20009, 'You may not use this resource on the weekerd'	« APPLY			Ċ
Objects O COLLAPSE EDIT Schemas 1 V NORTHWIND Tables 8	6 DRO IT: 7 DRO "RAISE ON MERCHAN": COMO, TO MAY THE USE CALL FEDERATE IN THE MERCHAN 7 DRO "RAISE ON MERCHAN":	2 RETURNS VOID A 3 \$5 4 DECLARE 5 BEGIN		_on_weekend()) THEN
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 > ORDERS > PRODUCTS > SHIPPERS 					
> SUPPLIERS ∑ Functions 1 COUNT_CUSTOMERS_BY_COUN <> Procedures 2					
CLEAR_OLD_ORDERS RAISE_ON_WEEKEND					

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



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



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.

X	CYPEX	Administration	1
	Dashboard U San	Build Applications with CYPEX Unclose Power of Low-Code Development for PostgreSQL Hards the data: follow a fore class, straightforward steps – driver of Low y querkes, and boths: yor's Denset Queries	
		Total Apps 1 Total Users 1 Total Otal 1 Total Otal 1 Total 1 Total Otal 1 Total Otal	
<	Collapse Menu	CYPEX is a product developed by <u>CYPERTEC</u> (115.0755.000	٥



Our approach offers numerous benefits::

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

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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

•••	
Zone:	Home / CYBERTEC / MS SQL compatibility / MS SQL compatible service
CYBERTEC	MS SQL compatible service
Default project	1 Node 1 Core 1 GB 1 GB 26% storage used PostgreSQL 16
CYBERTEC Migrator Demo	Summary Plan Parameters ACL
MS SQL compatibility	CONNECTION DETAILS
MS SQL compatible service	Primary: postgres://cybertec@154.41.192.23:5432 Babelfish: mssql://cybertec@154.41.192.18:1433
CYPEX demos	Username: cybertec Password: •••••••••• 🖺 🗞 GENERATE NEW
	STORAGE USAGE
	26% (248 MB) Used 74% (711 MB) Available



Babelfish for PostgreSQL comes to the rescue. It can run inside Scalefield providing countless advantages to the customer:

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:

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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:

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This project does not have any clusters.	Search Q Type • Status • Instances	v
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🚑 Admin		
Support	© 2000-2024 CYBERTEC PostgreSQL International GmbH	About Imprint

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

[∭] scalefield	CREATE •					🌲 🔥 AS A	Admin Scalefield 👻
Zone: default	Support Desk New issue						
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CYBERTEC PostgreSQL Int. GmbH	KEY	SUMMARY	с	REATED AT	STATUS		ACTIONS
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		PostgreSQL Support Having trouble accessing cortain websites or systems? We'll help you out.	Froduct trial questions Trying out our product and want more information? Select this and we'll be happy to answer your questions.	Technical support Meed help installing, configuring, or troubleshooting? Select this to request assistance.			
			CANCEL				



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

We at CYBERTEC focus heavily on **professionalism** at **every level**. This is reflected in our feedback, **SLA** statistics (no misses) and in overall customer **satisfaction** which helps 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.

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Average rat	ng User reviews					
Comment		Rating	Key Ag	ents	Received	
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CYBERTEC PostgreSQL

International (HQ) Römerstraße 19 2752 Wöllersdorf Austria Phone: +43 (0)2622 93022-0 E-Mail: sales@cybertec-postgresql.com

CYBERTEC PostgreSQL Switzerland

Bahnhofstraße 10 8001 Zürich Switzerland Phone: +41 43 456 2684 E-Mail: sales@cybertec-postgresql.com

CYBERTEC PostgreSQL Nordic

Fahle Office Tartu mnt 84a-M302 10112 Tallinn Estonia Phone: +372 712 3013 E-Mail: sales@cybertec-postgresql.com

CYBERTEC PostgreSQL Poland

Pl. Inwalidów 10 01-552 Warsaw Poland E-Mail: sales@cybertec-postgresql.com

CYBERTEC PG Database Services South America S.A.

Misiones 1486, Piso 3 11000 Montevideo Uruguay E-Mail: sales@cybertec-postgresql.com

CYBERTEC PostgreSQL South Africa

No. 26, Cambridge Office Park 5 Bauhinia Street, Highveld Techno Park 0046 Centurion South Africa Phone: +27(0)012 881 1911 E-Mail: sales@cybertec-postgresql.com



VERSION HISTORY

Vers	Version	Effective Date	Description	Author	Reviewed By	Approved By
	1.0	2024-12-09	Scalefield technical guide	Hans-Jürgen Schönig	Armin Nesiren	Hans-Jürgen Schönig

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.



Contact

- CYBERTEC PostgreSQL International GmbH Römerstraße 19 2752 Wöllersdorf AUSTRIA
- ↓ 43 (0) 2622 93022-0
 ≤ sales@cybertec-postgresql.com