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A large, stylized graphic element in the bottom right corner, composed of overlapping organic shapes in shades of teal, dark blue, and light orange. It has a textured, leaf-like pattern on the teal and blue sections.



Goodbye, database complexity. Hello, simplicity.

Reduce complexity and cost with the one database for all your workloads. Cloud native, converged, and automated, Oracle Autonomous Database eliminates manual maintenance hassles and delivers top performance, security, and automatic scaling for your changing needs. It also supports the full development lifecycle for modern applications.

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World-leading Databases Technologies and Products

Alibaba Cloud

ApsaraDB

Named as a LEADER in Gartner MQ for Cloud DBMS(2020-2023)



Alibaba Cloud Database Market Share

- 1st In China (IDC 2020-2022)
- 1st In Asia Pacific (Gartner 2021)
- 4th Cloud Database Provider Worldwide (Gartner 2022)

150,000+ Enterprise customers

700,000+ Database instances migrated

About PolarDB

PolarDB is a cloud-native relational database service developed in-house by Alibaba Cloud. It is fully compatible with MySQL and PostgreSQL, and is highly compatible with Oracle syntax. With its cloud-native architectures (integrated or distributed), storage-compute decoupling, and software-hardware co-design, PolarDB delivers unparalleled elasticity, performance, storage capability, availability, and cost-efficiency.

Engine	PolarDB for MySQL	PolarDB for PostgreSQL	PolarDB for Xscale (PolarDB-X)
Ecosystem	MySQL	PostgreSQL and Oracle	MySQL
Description	<ul style="list-style-type: none">A cloud-native relational database100% compatibility with MySQLCPU-memory-storage decoupledSoftware and hardware co-design	<ul style="list-style-type: none">100% compatibility with PostgreSQLHigh compatibility with Oracle syntaxDeliver capabilities on-par-with commercial databasesAdvantages in availability, reliability, linear scalability, cost-efficiency, and performance	<ul style="list-style-type: none">Distributed architectureIntegration of distributed SQL engine and self-developed storageScenarios with massive data, high concurrency and throughput



Founded in 2012, ByteDance's mission is to inspire creativity and enrich life. With a suite of more than a dozen products, including TikTok, Lark, CapCut, and Lemon8. ByteDance has made it easier and more fun for people to connect with, consume, and create content.

Database Development Team

Our Database Development Team, which falls under the Technical Infrastructure organization, is responsible for building and owning database products including but not limited to relational databases, graph databases, key-value stores and document stores, which are used across ByteDance. In this team, you'll have the opportunity to develop and enhance a full-stack database management system including storage, query execution engine and query optimizer as well as associated management tool in a cloud native environment. We embrace a culture of self-direction, intellectual curiosity, openness, and problem-solving.

Infrastructure System Lab

The Infrastructure System Lab in the Technical Infrastructure team works on cutting-edge infrastructure system innovations. Along with the development teams, the lab leads state-of-the-art technology breakthroughs in fields that then lead to the creation of powerful backbones for ByteDance products and corporate partners. These fields include but are not limited to computing, storage, database, network, and security.

Data Architecture Team

Data Platform-Data Architecture team of ByteDance focuses on building the next generation DBMS kernel aiming for the best-in-class query latency and hardware utilization. The team operates the distributed OLAP infrastructure powering cloud native data warehouse, which is the foundation behind data-driven decision making within ByteDance.

Let's Stay Connected



@ByteDancer

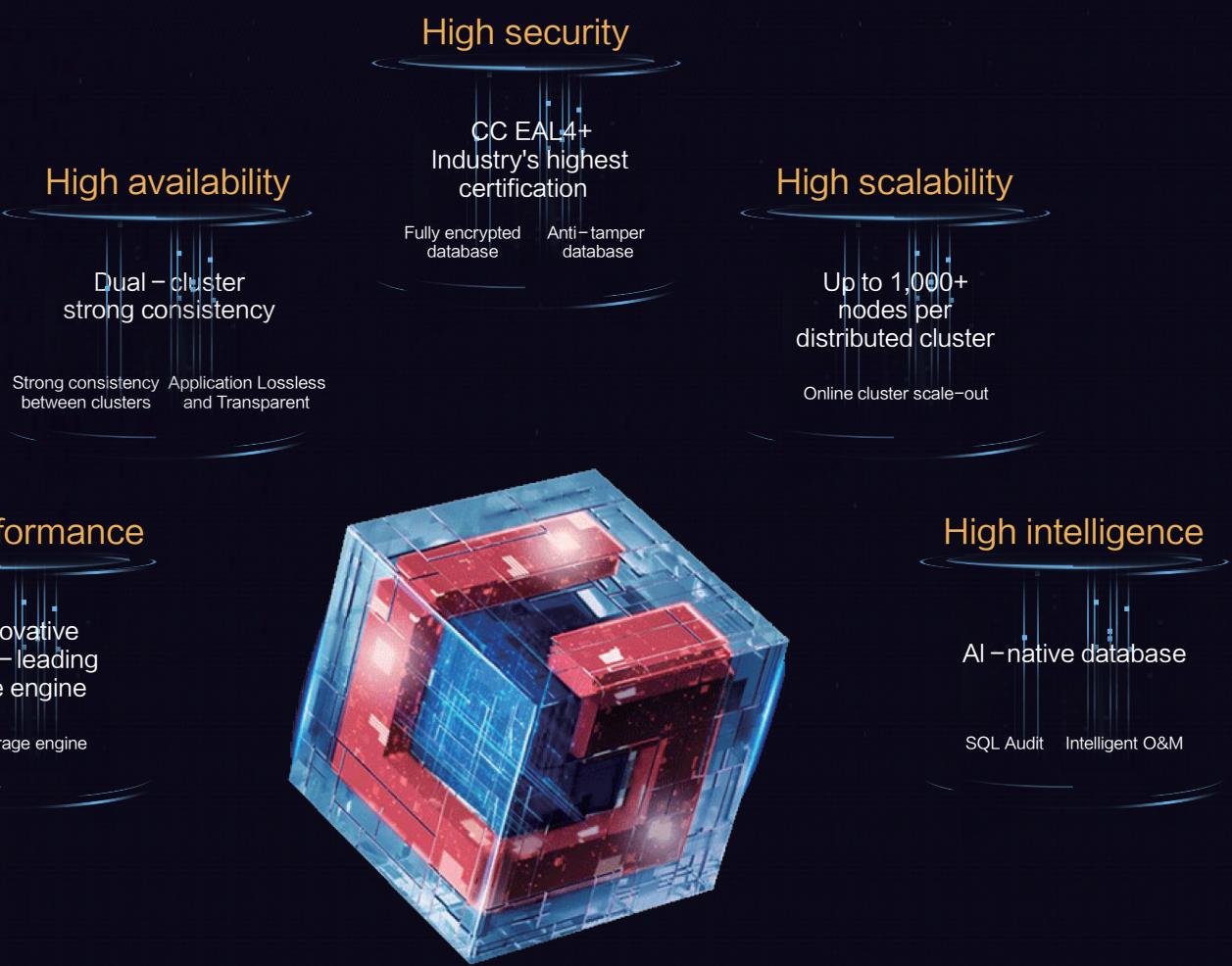


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Huawei Cloud GaussDB: A Better Way to Database



Smart deployment

Lightweight deployment | Data compression | Multi-tenancy

Smart migration

Compatible with common Oracle/MySQL syntax



Unlimited scalable distributed database for data-intensive transactional and real-time operational analytics workloads, with ultra-fast performance that has once achieved world records in the TPC-C and TPC-H benchmark test. OceanBase has served over 1000 customers across the globe and has been supporting all mission critical systems in Alipay.

1

The only distributed database that once topped the TPC-C and TPC-H benchmark tests.

610 M

Supporting Double Eleven Shopping Festival for 11 years, with 610 million QPS at peak time.

1000+

Serving over 1000 customers and partners from various industries across the globe.

Built for Mission-Critical Workloads

Ultra Scalable

Support on-demand elastic scaling, achieving transparent scaling without application changes or downtime, effortlessly handling traffic spikes. Support multi-read and multi-write capabilities.

High Availability

Achieve RPO = 0 and RTO < 8 seconds, enabling automatic disaster recovery through a distributed multi-replica architecture during failure of a server, rack or region, effectively eliminating downtime.

Real-time Analytics

Empower a single database and data set to seamlessly handle both transactional and real-time analytical workloads using enterprise-grade optimizer for complex SQL optimization and processing.

Cloud Agnostic & Seamless Migration

Support multi-cloud deployments on various CSPs including AWS, GCP and Alibaba Cloud. Highly compatible with MySQL as well as other leading commercial databases, ensuring seamless migration with minimal modifications.

Cost-effectiveness at Scale

Reducing storage costs by 70%-90% with advanced compression technology while improving resource utilization with multi-tenancy capabilities, OceanBase slashes TCO by over 30% in high-concurrency scenarios.

Our Publications

Our team are dedicated to delivering impactful and groundbreaking insights to everyone by sharing our research and tools to fuel progress in the database and the distributed technologies.

IEEE ICDE

International Conference on Data Engineering

Functionality-Aware Database Tuning via Multi-Task Learning (ICDE 2024)

BenchTemp: A General Benchmark for Evaluating Temporal Graph Neural Networks (ICDE 2024)

Generative and Contrastive Paradigms Are Complementary for Graph Self-Supervised Learning (ICDE 2024)

LCL: A Lock Chain Length-based Distributed Algorithm for Deadlock Detection and Resolution (ICDE 2023)



F3KM: Federated, Fair, and Fast k-means (SIGMOD 2024)

FEAST: A Communication-efficient Federated Feature Selection Framework for Relational Data (SIGMOD 2023)

Dike: A Benchmark Suite for Distributed Transactional Databases (SIGMOD 2023)

Very Large Data Bases

OceanBase Paetica: A Hybrid Shared-nothing / Shared-everything Database for Supporting Single Machine and Distributed Cluster (VLDB 2023)

Efficient Distributed Transaction Processing in Heterogeneous Networks (VLDB 2023)

OceanBase: A 707 Million tpmC Distributed Relational Database System (VLDB 2022)

Delving into Database Frontiers with OceanBase Lab

OceanBase Lab is dedicated to exploring the frontier core technologies of databases, expanding the boundaries of database technology, and offering customers a reservoir of technical strength for superior database products. The Lab investigates industry-leading distributed HTAP database technology, addressing practical database challenges.

This effort significantly enhances OceanBase's influence within the database industry. With a diverse portfolio of research projects, we are eager to communicate and collaborate with premier research institutions in the database field.

Join our Team: <https://bit.ly/3WdZP88>

For further inquiries and research opportunities, please contact xuquanqing.xqq@oceanbase.com



Tencent Cloud Database

Empowering Enterprises to Unlock Data Productivity

500k+ customers

50M+ cores

up to 80% cost savings

Relational

TDSQL Distributed Database	TDSQL-C Cloud Native Database	TDSQL HTAP Plugable HTAP Engine	
MySQL	MariaDB	SQL Server	PostgreSQL

3rd-party Cloud Database

Non-Relational

VectorDB Vector Database	KeeWiDB Key Value Database	TcaplusDB Database for Gaming	CTSDB Time-series Database	KonisGraph Graph Database
Redis		MongoDB		Memcached

3rd-party Cloud Database

DTS-DBbridge

Data Transfer & Migration Service

DBbrain

Database Autonomous Service

DMC

Database Management Service

TDSQL

#1 TPC-C | Distributed | Cost-Effective

01

814 million
transactions/min

02

99.999%
high availability

03

18s
or less in RTO



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