



Enterprise PostgreSQL solutions



«DBMS: Developer of the Year»
at the TAdviser IT Prize 2024



Tantor XData: Solution of the Year
CNews AWARDS 2024



A unified data management stack



Tantor DBMS
based on
PostgreSQL



PostgreSQL
cluster
management
platform



Tantor XData
database
machine



Data
transformation,
loading,
and migration



Tantor Postgres DBMS

A family of high-performance PostgreSQL-based DBMS

- › Designed for high-load enterprise systems
- › Versatile and secure
- › Five-year version support cycle and prompt vendor support



Enhanced capabilities compared to PostgreSQL

See the full list of differences at <https://tantorlabs.ru/products/compare>



- › Core improvements and performance optimization
- › Transparent Data Encryption (TDE)
- › Tantor PipelineDB: real-time aggregation and time series processing
- › Columnar and vector data storage and processing, for AI vector processing and other use cases
- › Search and dynamic masking of sensitive data (including in database dumps)
- › Security assessment utility

Tantor Postgres DBMS editions

designed for usage across various scales and types of information systems:



Basic Edition

A range of extra features and enhancements compared to open-source PostgreSQL, vendor support included



Special Edition

An enterprise-grade DBMS suitable for the most demanding OLTP systems or corporate data warehouses up to 100 TB in size

Information Security in Tantor Products

- › Full compatibility with Astra Linux Special Edition in all operational modes
- › Database and DBMS configuration integrity control, with secure deletion of database objects beyond recovery:
- File wiping in external storage prior to deletion
- Row version wiping
- Page wiping before deletion
- RAM wiping before release
- Write-ahead log (WAL) wiping before deletion or overwrite



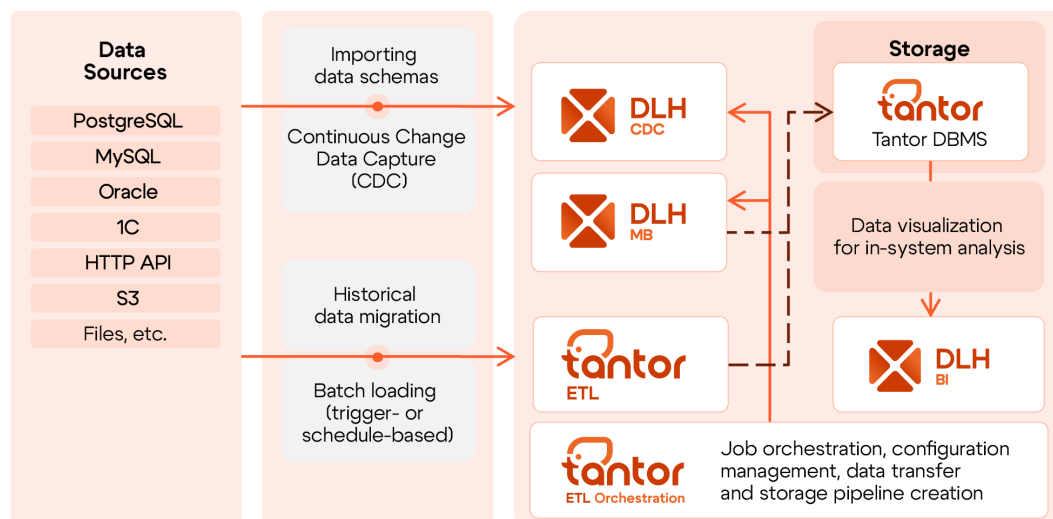
Tantor DLH

Data transformation, loading, and migration management

- › Data extraction from various sources
- › Data processing and transformation
- › Batch and real-time data loading
- › Data aggregation
- › Report generation and visualization
- › Data load scheduling management

Use cases:

- › **Data warehouse construction**
consolidation of data from multiple sources, with historical tracking and data quality management processes
- › **Data transformation**
unifying data models, deduplication, grouping, filtering, and sorting
- › **Distributed database synchronization**
maintaining data consistency between regional offices and the central system
- › **Real-time reporting system updates**
capturing data changes in real time and transmitting them to an analytics platform to ensure maximum report and forecast accuracy



Tantor Platform

Full-fledged control center for enterprise PostgreSQL databases

Use cases:

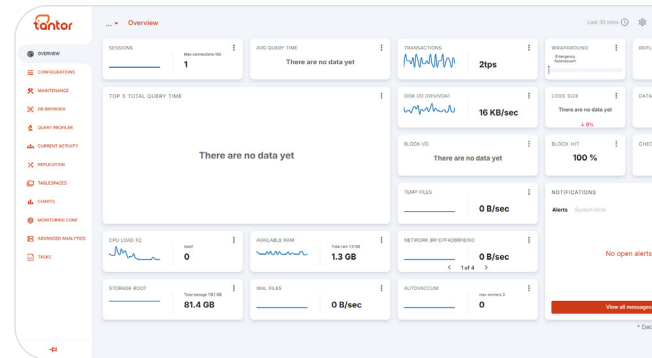
- › Self-hosted PostgreSQL instances on virtual machines
- › Managed DBaaS services
- › Tantor XData – self-hosted or deployed in a cloud

Advanced functionality and user convenience

- › Monitoring and management of high-availability Patroni clusters
- › Database object maintenance
- › Data masking
- › Monitoring of key database metrics
- › SQL query analysis and optimization suggestions
- › Log collection, storage, and analytics with optimization recommendations
- › PostgreSQL tuning suggestions based on real-time monitoring

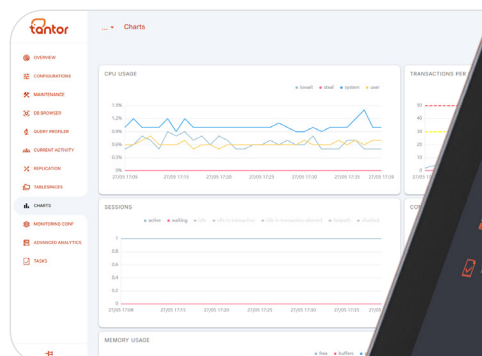
AI assistant

- › Automated query analysis and optimization
- › Semantic search across metadata and logs
- › Anomaly detection and monitoring
- › Automated database documentation
- › Natural language to SQL generation
- › Data analysis and classification
- › Database assistance



The screenshot shows the Tantor Monitoring Config table. It has columns for Trigger, Alert Description, Trigger Type, Warning Value, Problem Value, and Recovery Value. The table lists several triggers for monitoring database health.

Trigger	Alert Description	Trigger Type	Warning Value	Problem Value	Recovery Value
disk_io_percent	Disk I/O usage	host	80	90	60
user	CPU User Time	host	50	70	20
load	CPU Load Time	host	20	50	5
load	CPU Load Time	host	10	10	10
postgres		postgres	10	20	5
				3000	600



The screenshot shows the Tantor Current Activity dashboard. It features a sidebar with navigation options: Overview, Configurations, DB Browser, Query Profiler, Current Activity, Replication, Tablespace, Monitoring Conf, Advanced Analytics, and Tasks. The main area displays a table of database activity.

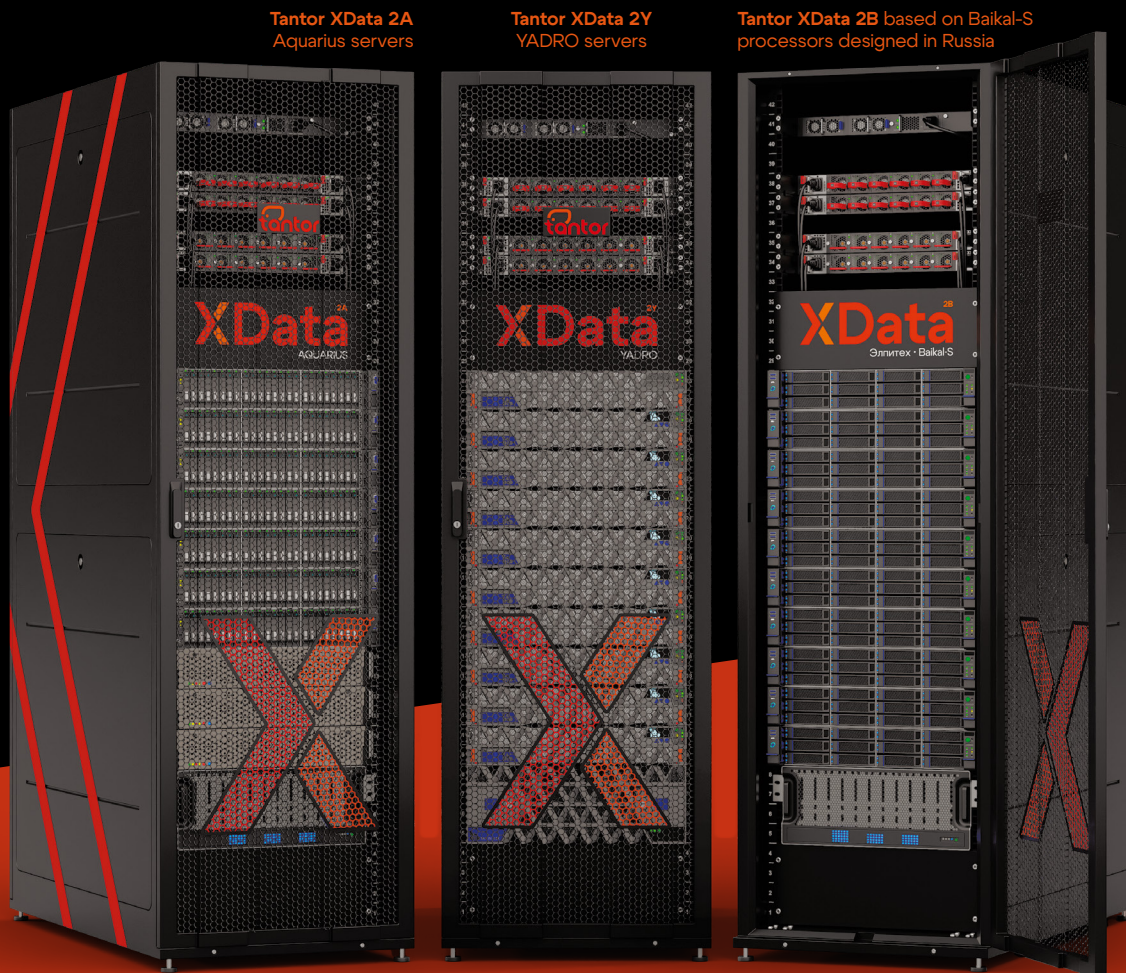
Database	Used	Used %	WAL Size
postgres	0	0	100
arg_db	0	0	100
tempdb	0	0	100



High-performance database machines produced by a DBMS vendor



- › Up to **120 000 TPS (r/w)** under OLTP workload
- › Performance, reliability, and scalability for both OLAP and OLTP workloads
- › DBaaS capabilities for your on-premises data center
- › API integration with private cloud infrastructure
- › Intelligent maintenance management
- › Reduced infrastructure and administration costs



AQUARIUS



ЭЛИТЕХ

Baikal
ELECTRONICS



ASTRA

CRYPTOPRO

Platformcraft
РОССИЙСКОЕ ОБЪЕКТНОЕ ХРАНЕНИЕ

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