High Performance Data Analytics Infrastructure with ChistaDATA Inc.

Consultative Support and Managed Services for ClickHouse

ClickHouse Facts - Why use ClickHouse?

- **Open Source ColumnStore project** - ChistaDATA is committed to building Enterprise-class Database Infrastructure(Open Source and Free - 100% GPL) for High Performance Analytics Platforms on ClickHouse
- Built for Massively Parallel Processing Systems, Large/complex queries can be run in parallel with minimal or no effort, The modern hardware infrastructure ready!
- **Data compression** – ClickHouse supports data compression and this improves query performance.
- In ClickHouse, data is not just stored by columns but is also processed by vectors to achieve high CPU performance.

- **Web-Scale data analytics-ready** – Primary keys are allowed, The data extraction for specific clients through Metrica counter over a specific time range makes low latency query analytics possible.
- **Flexible aggregation** – Aggregate functions for partial data with approximated calculation (minimal data retrieval option). Random keys aggregation instead of all keys for higher accuracy using minimal resources.
- **Maximum availability and self-healing** – Asynchronous multi-master replication with auto-failover capabilities.
- **SQL based** – ClickHouse supports SQL, JOINS, subqueries including FROM, IN, JOIN clauses; and scalar subqueries are allowed. Correlated subqueries are not allowed.

- **Horizontally scalable columnar database system** – ClickHouse is built for web-scale data analytics, Data can be replicated across several ClickHouse Shards. ClickHouse has distributed database analytics-ready columnar database system.
- **Compact data storage** – Ten billion UInt8-type values should exactly consume 10GB uncompressed to efficiently use the available CPU. Optimal storage even when uncompressed benefits performance and resource management. ClickHouse is built is store data efficiently without any garbage.
- **Can store data in disk** – The columnar database systems like SAP HANA and Google PowerDrill can only work in the RAM.
- **Supports data replication** – ClickHouse supports asynchronous multi-master and master-slave replication.

How ChistaDATA can help you in building a web-scale real-time streaming data analytics using ClickHouse?

- **Consulting** – We are experts in building optimal, scalable (horizontally and vertically), highly available and fault-tolerant ClickHouse powered streaming data analytics platforms for planet-scale internet / mobile properties and the Internet of Things (IoT). Our elite-class consultants work very closely with your business and technology teams to build custom columnar database analytics solutions using ClickHouse.

- **Database Architect services** – We architect, engineer and deploy data analytics platforms for you. We will take care of your data analytics ecosystem so that you can focus on business.
- **ClickHouse Enterprise Support** – We have 24*7 enterprise-class support available for ClickHouse, Our support team will review and deliver guidance for your data analytics platforms architecture, SQL engineering, performance optimization, scalability, high availability and reliability.
- ClickHouse Training.
- Pay only for hours we have worked for you, This makes us affordable for startups and large corporations equally.

Enterprise-class 24*7 Consultative Support for ClickHouse

- Recommendations for database architecture and design.
- Recommendations for optimal SQL engineering.
- Recommendations for ClickHouse Performance optimization and tuning.
- Recommendation for index design, optimization and usage.
- Recommendations for ClickHouse backup and disaster recovery.
- Recommendations for ClickHouse high availability and auto failover.
- Recommendations for ClickHouse data archiving and partitioning.
- Recommendations for ClickHouse maintenance operations.

ChistaDATA ClickHouse Managed Services

- ClickHouse Installation and Configuration
- Configuring ClickHouse for Performance, Scalability and Reliability
- ClickHouse Performance Monitoring and Troubleshooting(24*7)
- ClickHouse Performance Benchmarking
- Capacity Planning and Sizing
- ClickHouse Performance Audit
- ClickHouse Infrastructure Performance Optimization and Tuning
- ClickHouse Engineering Services

- ClickHouse Sharding Solution
- ClickHouse Replication Solutions
- ClickHouse Database Reliability Engineering Services
- ClickHouse Upgrades and Migration Services
- Database Security and Privacy
- ClickHouse Bug Fixing and Patching
- Remote DBA Services
- Data Migration Services and Upgrades
- Automation/DevOps.
- Data Security/Privacy/Audit

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ChistaDATA Customers

- Applied Materials
- Orange Communications
- Garmin
- ClassPlus
- Morgan Stanley
- Burberry
- Cambridge Investment Research
- American Express Travel
- Unilever
- VISA

- Blue Dart
- Carlsberg
- PRADA
- Netflix
- MPL
- Edward Jones
- National Geographic
- Sony
- Nintendo
- Thomson Reuters Corporation

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