

ChistaDATA Cloud

**Fully Autonomous ClickHouse and Driverless Database
Infrastructure on Cloud from ChistaDATA Inc.**

What is so complex in managing a Very Large Database Infrastructure at Scale?

- **The larger Database Infrastructure demand aggressive Capacity Planning/Sizing, Performance, Scalability(Vertical and Horizontal), Reliability and Data Security**
- **Installation and Configuration of Database Infrastructure:**
 - Custom installation and Configuration for optimal performance
 - Sizing ClickHouse Infrastructure
 - Configuring ClickHouse for High Availability
 - ClickHouse Bug Fixing/Patching and Upgradation
- **ClickHouse Replication**
- **ClickHouse Disaster Recovery**
- **ClickHouse Data Security, Privacy and Statutory Compliance Audits:**
 - **HIPAA:** Health Insurance Portability and Accountability Act
 - **PCI DSS:** Payment Card Industry Data Security Standard
 - **GDPR:** General Data Protection Directive
 - **HITECH:** Health Information Technology for Economic and Clinical Health Act
 - **Data Protection Act:** United Kingdom
 - **SOX:** Sarbanes Oxley
 - **FERPA:** Family Educational Rights and Privacy Act
- **ClickHouse Application/SQL and Index Optimization**
- **ClickHouse Infrastructure Operations Automation**

Why upgrade to the ChistaDATA Cloud Platform for serverless ClickHouse Operations?

- **ChistaDATA Cloud provides driverless (fully autonomous) Database Infrastructure on ClickHouse for Analytics:**
 - **Autonomous ClickHouse Infrastructure provisioning and operations eliminate the human involvement/labor for Installation, Configuration, Performance Tuning, Troubleshooting, Scale-out and ClickHouse Infrastructure Reliability Engineering (CIRE)**
 - **ChistaDATA Cloud proactively records the ClickHouse errors and feeds them to ChistaDATA AI for troubleshooting ClickHouse more intuitively**
 - **Automatic Maintenance Operations for ClickHouse Infrastructure:**
 - Fully Autonomous Backup
 - Fully Autonomous Recovery
 - Fully Autonomous Patching
 - Fully Autonomous Failover
 - **Autonomous Performance Monitoring and cost-efficient resource provisioning for ClickHouse to meet SLAs**
 - **Archiving Data from MySQL, MariaDB and PostgreSQL to ChistaDATA Cloud Infrastructure for ClickHouse to deliver high-performance transaction processing operations cost efficiently**

ChistaDATA Cloud – Why building Data Analytics on ChistaDATA Cloud is equally recommended for both startups and large corporations

- **Flexible subscription plans:**
 - Flexible Serverless ClickHouse Infrastructure available for Development, Build/Release Engineering and Production environment
 - ChistaDATA Cloud provides ClickHouse infrastructure for both compute and storage ecosystems
 - Elastic: You can always upgrade/downgrade your subscription plan without any operational challenges
- **Just bring your Data to ChistaDATA Cloud – Driverless and fully autonomous Database Infrastructure for ClickHouse:**
 - Advanced ClickHouse SQL development IDE provided for developer success and Time-To-Market
 - Are you already on any other DBaaS like Amazon Aurora (PostgreSQL and MySQL), Amazon RedShift and Google CloudSQL?
 - Larger OLTP Database Systems are extremely expensive operationally, with frequent performance outages
 - ChistaDATA Cloud Archiving Toolkit for MySQL, MariaDB, PostgreSQL and other DBaaS will help you in building lean OLTP databases for both on-premises and serverless infrastructure
 - ChistaDATA Proxy helps in transparent load-balancing between OLTP Database Infrastructure and ClickHouse
- AI-Based Troubleshooting for ClickHouse Infrastructure Maintenance Operations
- ChistaDATA Audit Logs for detailed forensics of ClickHouse Server Operations
- Point-in-Time-Recovery for ClickHouse Server
- **ChistaDATA ClickHouse Proxy as a Service:**
 - READ-WRITE Query Distribution / Horizontal Scalability
 - Query Caching
 - ClickHouse Firewall Implementation with ChistaDATA Proxy

ChistaDATA AI Based Performance Monitoring for ClickHouse

- **Time-Series Performance Monitoring of ClickHouse Infrastructure Operations**
- **Monitoring Session/Connection Activities:**
 - Logins: Successful and unsuccessful Logins
 - Most expensive sessions by latency(Response Time) and System Resource Usage(Throughput)
 - Expensive Wait Events
- **Workload Profiling of ClickHouse Infrastructure Operations**
 - ClickHouse Data Operations (Data Loading and Query Performance) Profiling
 - Running Statements
 - Queued Statements
 - Executions Per Second
 - Queries Per Second:
 - READs Per Second
 - WRITEs Per Second
 - Rows Processed Per Second
- Monitoring ClickHouse Query Performance with ChistaDATA Advanced Time-Series Performance Monitoring Platforms:
 - Query Latency/Response Time in Seconds
 - Index Performance Analysis and Usage
- Monitoring ClickHouse Disk I/O Performance

How is ChistaDATA Cloud different?

- **Autonomous and Driverless Database Infrastructure for Columnar Analytics:**
 - Automatic Provisioning of Optimal and Reliable ClickHouse Operations
 - Automatic Configuration of ClickHouse for Performance and Scalability
- Fully Autonomous System Failure Detection and Repair
- Secured ClickHouse Database Infrastructure:
 - Fully Autonomous ClickHouse Bug Fixing and Patching
 - Customized ClickHouse Infrastructure for Data Privacy and Query (both successful and unsuccessful) Audit
- Fully Autonomous ClickHouse DR – Maximum Reliability Architecture for Zero Data Loss
- Fully Autonomous ClickHouse Replication Services
- Fully Autonomous ClickHouse Partitioning (both vertical and horizontal)
- AI-Based ClickHouse Observability and Monitoring Platform
- Advanced SQL IDE for Data Analytics Developer Success
- Fully Autonomous Data Archiving Toolkit for MySQL, MariaDB and PostgreSQL

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