MariaDB Consulting, Support & Managed Services

Enterprise Database Solutions by MinervaDB Inc.

ABOUT US

MinervaDB Inc.: Your Global Database Partner

MinervaDB Inc. is a vendor-neutral, independent database consulting company specializing in mission-critical database infrastructure. Our global virtual corporation brings together seasoned professionals from around the world, providing unparalleled expertise in web-scale database operations.

We maintain a 24/7 operational team distributed across multiple time zones, ensuring continuous coverage for your critical database infrastructure. Our team has deep expertise in managing some of the largest internet properties, handling billions of queries daily with precision and reliability.

Global Reach

Distributed team across continents for 24/7 support

Seasoned Experts

Decades of combined experience in database operations

Vendor Neutral

Unbiased recommendations focused on your needs

SERVICES

Comprehensive MariaDB Expertise

Our services span the entire database lifecycle, from initial architecture design through ongoing optimization and support. We deliver enterprise-grade solutions tailored to your specific performance, scalability, and reliability requirements.

Architecture & Engineering

Design scalable, resilient database architectures that grow with your business needs

Performance Optimization

Fine-tune queries, indexes, and configurations for maximum throughput

Benchmarking & Planning

Data-driven capacity planning and resource forecasting

High Availability Engineering

Build fault-tolerant systems with automated failover and disaster recovery

Data Recovery Services

Expert recovery from corruption, deletion, or infrastructure failures

Security & Compliance

Implement GDPR, PCI DSS, HIPAA, and SOX compliance frameworks

PERFORMANCE GOALS

Web-Scale Performance at Your Fingertips

Modern enterprises demand database systems that can handle massive scale while maintaining reliability and security. Our solutions are designed to meet the most demanding requirements of mission-critical applications.

100K+

Queries Per Second

Scale past 100,000 QPS with optimized configurations and intelligent sharding strategies

99.99%

Availability Target

Achieve four nines uptime with robust high availability architectures

GDPR

Security Grade

Enterprise-grade security meeting the strictest regulatory requirements

From e-commerce checkout systems processing thousands of transactions per minute to real-time analytics platforms serving petabytes of data, we ensure your MariaDB infrastructure delivers consistent, predictable performance under any load condition.

CAPACITY PLANNING

Right-Size Before You Scale

Effective capacity planning prevents both over-provisioning waste and performance bottlenecks. Our data-driven approach combines industry-standard methodologies with real-world operational experience to forecast your infrastructure needs accurately.

We employ **Little's Law** to model workload-specific resource requirements, ensuring your database can handle peak loads while maintaining optimal response times. Our forecasting includes a standard **30% headroom buffer** to accommodate unexpected traffic spikes without service degradation.

01

Workload Analysis

Profile current query patterns and traffic characteristics

02

Resource Modeling

Apply Little's Law and Compound Poisson models for forecasting

03

Growth Projection

Model disk growth using Compound Poisson methodology

04

Optimization Plan

Deliver right-sized infrastructure recommendations

SQL ENGINEERING

Schema Design & Query Optimization

Great database performance starts with thoughtful schema design. Our **schema-first, queries-second** methodology ensures your data model supports efficient access patterns from day one, eliminating costly refactoring later.

1

Access-Path Contracts

Design covering indexes that guarantee optimal query execution plans without table scans

2

Multi-Region Sequences

Implement hot-spot free ID generation strategies for globally distributed deployments

3

UTF8MB4 by Default

Ensure complete Unicode support and data integrity across all character sets

4

CI/CD Integration

Gate deployments with automated performance regression testing and query analysis

Our SQL engineering services include comprehensive query review, index optimization, and continuous performance monitoring integrated directly into your development workflow.

STORAGE ENGINES

Choosing the Right Storage Engine

MariaDB's pluggable storage engine architecture allows you to optimize for specific workload characteristics. Our expertise helps you select and tune the ideal engine for each use case.

Storage Engine	Best For	Key Benefits
InnoDB	OLTP Workloads	ACID compliance, row-level locking, crash recovery. The default choice for transactional applications.
MyRocks	Write-Heavy	2-3x compression ratio, reduced write amplification. Ideal for high-volume logging and time-series data.
ColumnStore	Analytics	Petabyte-scale MPP analytics with columnar storage. Blazing fast aggregations and reporting queries.
Spider	Sharding	Transparent horizontal partitioning across multiple MariaDB instances without application changes.

We analyze your specific workload patterns—read/write ratios, data volumes, query complexity—to recommend the optimal storage engine configuration.

High Availability & Disaster Recovery

Downtime is not an option for mission-critical applications. We design and implement high availability architectures tailored to your specific Recovery Point Objective (RPO) and Recovery Time Objective (RTO) requirements.

Async Replication + Orchestrator

RPO: <60 seconds
RTO: <3 minutes

Cost-effective HA with automated failover detection and promotion

1

Galera 3-Node Cluster

RPO: 0 seconds
RTO: <30 seconds

Synchronous multi-master replication with zero data loss guarantee

2

Cross-Region DR

RPO: <5 minutes
RTO: <15 minutes

Geographic redundancy with delayed replicas for point-in-time recovery

3

All solutions include comprehensive backup strategies with encrypted snapshots, point-in-time recovery capabilities, and regular disaster recovery testing to ensure your data remains safe and accessible.

SECURITY & COMPLIANCE

Enterprise-Grade Security & Compliance

Data protection and regulatory compliance are non-negotiable in today's regulatory environment. Our security services ensure your MariaDB infrastructure meets the strictest industry standards while maintaining performance and usability.

We implement comprehensive data protection strategies including dynamic data masking, field-level encryption, and automated compliance workflows that integrate seamlessly with your existing security infrastructure.

Data Masking

Dynamic masking and pseudonymization using MaxScale Masking Filter

Regulatory Compliance

GDPR, PCI DSS v4.0, HIPAA, and SOX compliance frameworks

GDPR Automation

Right-to-be-Forgotten workflows with immutable audit trails

REMOTE DBA

24/7 Remote DBA Services

Our managed Remote DBA services provide round-the-clock monitoring, maintenance, and support for your MariaDB infrastructure. Sleep soundly knowing experts are watching your databases at all times.

Golden Signals Monitoring

Real-time tracking of latency, traffic, errors, and saturation with intelligent alerting

Auto-Triage & Failover

Automated incident detection with intelligent escalation and failover orchestration

Chaos Engineering

Proactive resilience testing to identify weaknesses before they cause outages

Our Remote DBA team doesn't just react to problems—we prevent them through proactive performance monitoring, capacity tracking, and continuous optimization. Emergency response capabilities ensure rapid resolution when critical issues arise.

PRICING

Flexible Service Delivery Models

We offer transparent, flexible pricing designed to match your budget and support requirements. Whether you need occasional consulting or comprehensive managed services, we have a plan that fits.

Consulting Services

On-Site Consulting

Per hour rate for on-premises engagements

Remote Consulting

Per hour rate for virtual sessions

Monthly Plans

Flexible monthly retainer packages from **4 to 40 hours** with rollover options. All plans include:

- Pay-as-you-go billing with no long-term contracts
- Priority support queue access
- Transparent ticketing system
- Detailed monthly reporting

Emergency support available for non-customers at premium rates.

HEALTH CHECK

Comprehensive Health Check & Audit Services

Our MariaDB Health Check service provides a thorough assessment of your database infrastructure, identifying performance bottlenecks, security vulnerabilities, and optimization opportunities.

1

Infrastructure Audit

Complete review of MariaDB configuration, architecture, and operational procedures against industry best practices

2

Performance Diagnostics

Deep-dive query analysis, slow query forensics, and execution plan optimization recommendations

3

Security Assessment

Comprehensive security audit with compliance gap analysis and remediation roadmap for GDPR, PCI DSS, HIPAA, and SOX

4

Actionable Recommendations

Detailed technical report with prioritized action items, implementation guides, and estimated impact assessments

Investment: $30,000 per MariaDB instance — Includes comprehensive analysis, detailed reporting, and 30 days of follow-up support

Why Choose MinervaDB?

Vendor Neutral

Independent consultancy with no vendor conflicts of interest—our recommendations serve only your needs

Seasoned Professionals

Global team of database specialists with decades of combined experience managing mission-critical systems

Competitive Pricing

No infrastructure overhead means better rates without compromising quality or expertise

Transparent Operations

Full visibility through our ticketing system with detailed time tracking and regular status reporting

24/7 Global Coverage

Round-the-clock availability across multiple time zones ensures someone is always watching your systems

Proven Track Record

Successfully managed **1,200+ MariaDB clusters** for enterprises across e-commerce, fintech, healthcare, and SaaS

CRITICAL SITUATIONS

When to Call Our Experts

Certain database challenges demand immediate expert intervention. Don't wait until a minor issue becomes a major incident—contact us when you face these critical scenarios:

Massive Traffic Spike Expected

You're expecting a **>10x traffic increase within 90 days** (product launch, marketing campaign, seasonal peak) and need infrastructure ready to scale

Mysterious Replication Lag

Experiencing **unexplained cyclic replication lag** that's impacting read replica performance and threatening data freshness SLAs

Compliance Audit Failure

Facing a **compliance audit with plaintext PANs or PII** in your database—urgent remediation needed to avoid penalties

Zero-Downtime Migration

Need to migrate production databases with **zero downtime requirements**—whether upgrading versions or moving cloud providers

High-Stakes Events

Black Friday peaks, Super Bowl traffic, or 3 AM failovers—when failure isn't an option and you need experts on standby

Ready to Optimize Your MariaDB Infrastructure?

Let's discuss how MinervaDB can help you achieve your database performance, reliability, and scalability goals. Our team is ready to provide expert guidance tailored to your specific requirements.

Contact Us Today

Phone: (844) 588-7287

Email: contact@minervadb.com

Website: https://minervadb.xyz

MinervaDB Inc.
440 N BARRANCA AVE #9718
COVINA, CA 91723

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