MemSQL Enterprise Feature List

DEPLOYMENT
Provision and deploy MemSQL anywhere according to your desired cluster configuration.

On-Premises:
Maximize infrastructure investments

Self-Service Cloud:
Install MemSQL on AWS, Microsoft Azure, and Google Cloud

Fully Managed Cloud:
Install MemSQL on AWS, Microsoft Azure, and Google Cloud

DATA INGESTION
Connect MemSQL with your data ecosystem across streaming, batch load, and application environments so you can analyze your live and historical data in a single scalable system.

MemSQL Pipelines:
Ingest data from Apache Kafka and Amazon S3 with a single command

Exactly-Once Semantics:
Achieve guaranteed message delivery for precise reporting and analysis

Data Import:
Import from existing systems using native data load functions

"MemSQL as a core technology in our IT infrastructure allows us to ingest granular data more rapidly with higher scalability and efficiency."

Mike DePrizio
Senior Architect

Akamai
We’re now able to aggregate statistics across the entire US as well as glue on to complex streams for complex analysis. We like to say we gave the gift [of MemSQL] to a lot of groups at Comcast.”

Christopher Lintz
Senior Principle Architect

ANALYSIS
Achieve ultra fast query response on live and historical data using ANSI compliant SQL.

Sophisticated Insights
Perform fast SQL operations for instant response to BI dashboards, reports, and machine learning applications

Stored Procedures
Build powerful custom functions with procedural SQL and leverage the performance of query compilation and distributed processing

Geospatial
Store, query, and index geographic data types including polygons and points to support location analytics

JSON Optimized
Store and query JSON data as a column-type and analyze multi-attribute objects

Multi-Statement Transactions
Multi-statement transactions allow a set of DML statements to be combined into a single transaction

Compiled Queries
Compile repeat queries into low level machine code to deliver real-time response for analytic queries

Fully Distributed Joins
Scale out distributed JOINs across any table or column for simple query access
**DURABLE DISTRIBUTED STORAGE**
The highly scalable distributed system balances data and queries across a cluster of industry-standard hardware for maximum performance, concurrency, and availability

**Distributed Storage**
Store and process data across clusters and maximize resilience and performance

**Big Data Capacity**
Store petabytes of data on low cost disk and cloud storage for archive requirements while maintaining instant retrieval for analysis

**Massively Parallel**
Scale out shared nothing architecture with a parallel execution engine for read and write queries delivering real-time performance

**Full Durability to Disk**
Write transactions directly to disk or write to memory with full data persistence and archiving

**In-Memory or On-Disk Tables**
Use memory for transactional workloads and cleanup while using disk for historical data and analysis

**Compressed On-Disk Tables**
Optimize column store disk compression resources for storing up to petabytes of data
“Every business user is requesting speed and the ability to move at an incredibly iterative pace, we need to be able to provide that and in-memory allows us to do so.”

JR Cahill
Principal Architect

“Simple Unified Management”
MemSQL Ops is a simple and powerful web interface for MemSQL cluster information, configuration, deployment, and monitoring.

Monitor Performance and Capacity
Respond to issues and ensure your cluster is always online and operating within server capacity.

Provision and Deploy
Provision and deploy MemSQL according to your desired cluster configuration.

High Availability
Redundancy protect against data loss and ensures data consistency with replication.

Cluster Management
Automate and simplify common tasks including adding, dropping, restoring, rebalancing partitions.

Administration and Scaling
Manage data replication and restore without pausing or going offline.

Cross Data Center Replication
Synchronize one cluster with another over a broad network connection.
**SECURITY**
Meet or exceed data security requirements without compromising database performance. Easily manage how users and roles access data to meet intensive workloads for web scale or regulated environments.

**Role-Based Access Control (RBAC)**
Manage simple or robust security configurations by user role and group while maintaining maximum performance

**Encryption**
Data encryption is supported at time of ingest and when delivered across nodes using SSL. Use third party storage encryption while data is stored in MemSQL

**Authentication**
Manage existing account access with PAM (Pluggable Authentication Module) and SAML authentication support

**Audit Logging (Add On)**
Configurable database logging writes all activities to a secure external location to support information security tasks such as tracking user access, investigating suspicious activities and validating access control policies

**Strict Mode (Add On)**
Prevent permissive data access from rogue database administrators using strict security configuration control to protect against insider threats

**Password Policy**
Ensure strong password compliance and best practice with policy controls over length, complexity, and usage configuration
INTEGRATIONS
Leverage the MySQL wire protocol or JDBC/ODBC interface to integrate with existing middle-ware or technology investments

Cloud
Amazon Web Services, Microsoft Azure or Google Cloud Platform

On-Premises
Deploy on virtualization and container services like Docker and VMware

Relational
Oracle, SQL Server, MySQL, Postgres, Teradata, SAP, and more

Streaming
MemSQL Pipelines, Apache Kafka, Amazon S3, HDFS, Apache Spark

Query
ANSI SQL, JSON, Geospatial

BI Tool
Tableau, Looker, Zoomdata, and Microstrategy
**SUPPORT**
MemSQL support packages are tailored to your business, whether you’re a startup or a global enterprise.

**Business Hours Support**
On-Call Support : 9am - 5pm PST
Get support in less then 2 hours for critical issues

**Additional Service Packages**
Accelerate deployment and optimize production operations. Specific packages include; Quick Start, Ingest ETL, Operational Readiness and Performance Tuning.

**READY TO GET STARTED WITH MEMSQL?**
Schedule a personal demo with one of our product experts to answer all of your questions and learn how our customers are benefiting from using MemSQL.

**Go to:**
MEMSQL.COM/DEMO