MemSQL, The Database of Now™, on Red Hat OpenShift

High Level Overview
MemSQL is a cloud-native distributed, highly-scalable, relational SQL database that can handle both OLTP and OLAP workloads in a single system, which fit with the direction of new applications to combine transactional and analytical (HTAP - Hybrid Transaction/Analytical Processing) requirements.

Executive Summary
Enterprises are standardizing container-based approaches to ensure that applications can consistently run and be managed identically, regardless of the underlying cloud infrastructure. MemSQL is the ideal converged database for operational analytics that require fast data ingestion, high performance queries and elastic scaling with familiar relational SQL. MemSQL being certified and available through Red Hat Marketplace makes it easier for developers to discover and access certified software for container-based environments, across all clouds and on-premises.

Product profile
MemSQL is a cloud-native operational database built for speed, scale, and SQL. MemSQL is ideal for real-time applications that require fast data ingestion, low-latency queries and elastic scaling with familiar relational SQL. MemSQL uniquely provides a built-in parallel data streaming technology called MemSQL Pipelines which enables the ingestion and processing of millions of events per second with ACID transactions while simultaneously analyzing billions of rows of data in models including relational SQL, JSON, key-value, geospatial, time series, and full-text search. Converged workloads with rowstores containing tens of terabytes executing over 10,000 complex queries per second and columnstore in the multi-petabyte range are common while supporting aggregations of billions of rows per second.

Product benefits
MemSQL enables ultra-fast operational analytics and real-time insights to achieve faster, more informed decisions, improved customer experiences, and operations. MemSQL SingleStore and the new system of record capabilities, make MemSQL the ideal choice for both new applications and to move legacy operational databases to the cloud.

- **Ultra-fast Event-to-Insight Performance.** Deliver against the toughest service-level-agreements using distributed lock-free ingestion and real-time query processing.
- **Scale Limitlessly.** Elastic scale-out architecture with distributed massively parallel data processing delivers consistent predictable response under high ingest and user concurrency.
- **Ease of Use and Flexibility.** MemSQL SingleStore architecture allows transactional and analytical workloads to be processed on operational data using a single table type.
- **Drop-in Compatibility.** Plug-in directly with existing technologies and skills with support for standard SQL, BI tools like Tableau, and distributed data sources like Amazon S3, Spark, Kafka, and Hadoop for data in Parquet, CSV, and other formats and capabilities to market.
- **Low Latency Analytics.** Lets you achieve ultra fast query response across both live and historical data using familiar ANSI SQL.

Nikita Shamgunov
Co-CEO and Co-Founder of MemSQL

Containers have fundamentally transformed how we deploy and manage stateless applications, and operators now unlock that same level of flexibility and scale to operational data infrastructure. Becoming a Red Hat certified partner allows us to deliver our next generation, distributed relational database-as-a-service across any public or private cloud.”
“Developers and architects looking to build new applications in, and for the cloud, or migrate existing applications to a cloud-based infrastructure, partner with Red Hat to develop and deliver more supportable solutions sooner. Red Hat certification assures a supportable platform for all types of customer deployment models. Red Hat is thrilled to work with software partners like MemSQL, resulting in the world’s largest open, and commercially supportable application ecosystem.”

Mike Werner
Sr. Director Global Technology Partners, Red Hat

Use Cases

- **Operational Analytics.** MemSQL delivers the fastest and most scalable reporting and analytics across all of your operational data; including streaming, real-time, and historical data.
- **Operationalizing ML and AI Apps.** MemSQL can transform your business with scalable ML/AI applications with an ultra fast ingest and query platform that enables real-time model scoring on both streaming and historical data.
- **Monitor and Detect in Real-Time.** MemSQL gives organizations the ability to monitor and detect anomalies in rapidly changing data through its innovative real-time ingestion, database and analytics platform.
- **Accelerating Legacy Data Platforms.** MemSQL can accelerate legacy systems with scalable rapid data ingestion and fast queries on large data sets, by leveraging the simplicity of SQL.

Learn more

Company: MemSQL

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About Partner

MemSQL envisions a world where every business can make decisions in real time and every experience is optimized through data. To do that, enterprises need to ingest, analyze, and act on massive volumes of rapidly changing data. This is why we built MemSQL, The Database of NowTM. Tested and proven as the world’s fastest database for operational analytics, MemSQL gives businesses a platform purpose-built for breakthroughs. Global enterprises in every industry use the MemSQL distributed database to compete and win in today’s insight-driven economy.

About Red Hat

Red Hat is the world’s leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.

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