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MySQL Cluster CGE

MySQL Cluster CGE enables customers to run mission-critical applications with 99.9999% availability. It is a distributed, real-time, ACID-compliant transactional database that scales horizontally for read and write intensive workloads. Developers and DBAs have the flexibility of using SQL and NoSQL APIs.

- **Achieve 99.9999% database availability** with a strongly consistent, active/active, multi-master database.
- **Real-time performance** for low latency applications, delivering 200 million queries per second.
- **Scale Write and Read Intensive workloads** for high volume OLTP applications with built in sharding.

99.9999% Availability

MySQL Cluster is designed for six 9s availability, eliminating both planned and unplanned downtime. Achieved via a distributed, shared-nothing architecture and synchronous replication of data that automatically propagates transactions across a node-group, ensuring consistency of reads and write operations, coupled with lossless failover.
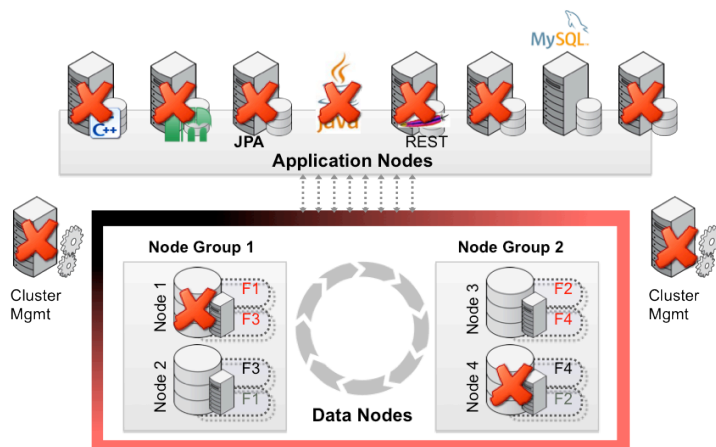
MySQL Cluster delivers extreme resilience to failures with no single point of failure.

Highlights

99.9999% Availability

No Single Point of Failure

Automatic Failover

Self-Healing

Real-time Performance

Low latency

On Demand, Elastic Scalability

Auto Data Sharding

Online Schema Operations

SQL & NoSQL APIs

Oracle Premier Support

"We selected MySQL Cluster Carrier Grade Edition over other vendors, including PostgreSQL and Microsoft, for its superior clustering capability and active-active feature. The solution is also more cost effective to support our future expansion."

Koichi Kawashima
General Manager
BitCash

TARGET APPLICATIONS

Web & Ecommerce	Financial Trading	Telecom Subscriber Databases
High Volume OLTP	Fraud Detection	Location-based Services
Streaming and Analysis	Mobile Payments	IP Multimedia Subsystem
Content Management & Delivery	Blockchain	Video on Demand

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Real-time Performance

MySQL Cluster provides real-time performance to meet the needs of the most demanding web, enterprise applications and telecom applications. MySQL Cluster is ideally suited for latency-sensitive applications and can deliver in excess of 200 million NoSQL queries per second.

A unique parallel query engine gives a consistent consolidated transactional view of the entire distributed partitioned dataset. This makes designing and programming scalable distributed applications straightforward. Developers can focus on the application logic and don't need to think about data distribution.

Scaling Read and Write Operations

MySQL Cluster is a strongly consistent, active/active, multi-master database. Updates can be made to any database node and are instantly available to the rest of the cluster, without any replication lag. The shared-nothing architecture eliminates the need for expensive shared storage, enables online scaling, and prevents downtime. Unlike other sharded databases, users do not lose the ability to perform JOIN operations, ACID-guarantees, or referential integrity (Foreign Keys) when performing queries and transactions across shards.

SQL and NoSQL Interfaces

MySQL Cluster enables users to blend the best of both SQL and NoSQL technologies into solutions that reduce cost, risk and complexity. Developers have the ultimate flexibility to use multiple APIs, each of which can concurrently access the same data set.
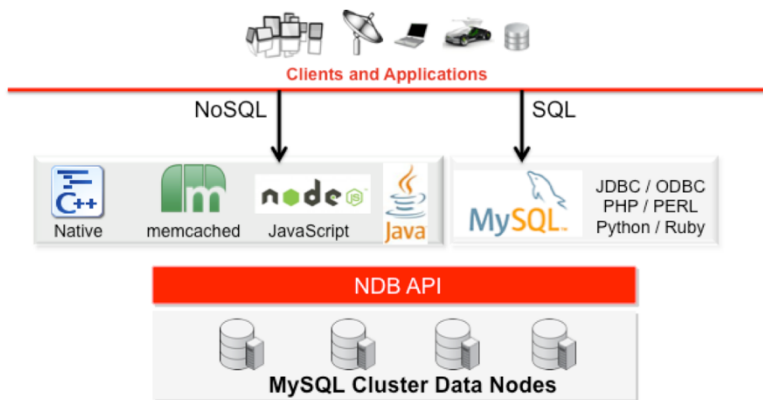
SQL & NoSQL APIs to MySQL Cluster

> "MySQL Cluster Carrier Grade Edition is a true carrier grade database, exactly what we need for our telco and enterprise clients. It gives us redundancy through the active-active replication with no single point of failure, high performance for maximum uptime, and full support from a world-class vendor. I don't think there is any other solution even standing close to MySQL Cluster."

Dennis Jdanov
CIO and Co-founder
Beezz

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