MySQL Cluster

Cost-effective, High Availability Database Clustering

MySQL Cluster combines the world's most popular open source database with a fault-tolerant database clustering architecture so you can deliver mission-critical database applications with 99.999% availability.

MySQL Cluster enables you to:

- Cost-effectively deliver 5 nines availability using parallel server architecture with no single point of failure.
- Deliver the performance and high throughput required to meet the most demanding enterprise applications.
- Incrementally scale your applications in a linear fashion as your needs grow without having to invest in expensive hardware.

99.999% Availability

MySQL Cluster provides a parallel server, fault-tolerant architecture that ensures your organization's mission-critical applications achieve 99.999% availability. This means less than 5 minutes downtime per year, including scheduled maintenance time. MySQL Cluster implements automatic node recovery to ensure an application automatically fails over to another storage node that contains a consistent data set, if one or more storage nodes fail.

HIGHLIGHTS

- Cost-effective
- 99.999% Availability
- Sub-second Failover
- Linear Scalability
- High Performance
- Easy Administration
- Support, Services, & Training

Cost Effective

MySQL Clusters enables organizations to overcome the traditional cost barriers associated with adopting proprietary high-availability clustering solutions. MySQL Cluster reduces high software costs with an affordable licensing model. Plus, MySQL Cluster makes optimal use of commodity hardware. Finally, organizations can reduce operations costs by minimizing the need for specialized administration. MySQL Cluster is designed to be largely self-governing so very few system parameters need fine-tuning.

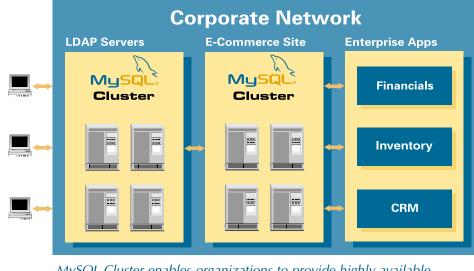## High Performance Only a Main Memory Database Can Deliver

MySQL Cluster provides the response time and throughput to meet the most demanding high volume enterprise applications. MySQL Cluster achieves its performance advantage by being a main memory clustered database solution, which keeps all data in memory and limits IO bottlenecks by asynchronously writing transaction logs to disk. Typical response times for MySQL Cluster are in the range of a few milliseconds. MySQL Cluster handles tens of thousands of distributed transactions per second that are also replicated across storage nodes.

Fast Automatic Failover

MySQL delivers extremely fast failover time with sub-second response so your applications can recover quickly in the event of application, network or hardware failure. MySQL Cluster uses synchronous replication to propagate transaction information to all the appropriate database nodes so applications can automatically fail over to another node extremely quickly. Plus, MySQL Cluster storage nodes are able to automatically restart, recover, and dynamically reconfigure themselves in case of failures without having to program advanced features into the application.

No Single Point of Failure

The parallel server architecture combines storage nodes, management server nodes, and MySQL Server nodes that can be distributed across computers and geographies to ensure there is no

MySQL Cluster enables organizations to provide highly available applications and services.

single point of failure. Any node can be stopped or started without stopping the applications that use the database. And MySQL Cluster is highly configurable so you can implement the appropriate level of performance, scalability and fault tolerance to match your application requirements.

Easy-to-use Administration

MySQL Cluster includes tools to monitor storage nodes, control access to applications, and create and restore backups.

Services and Support

MySQL provides extensive consulting, training and technical support services to ensure the success of your next mission-critical database application project. MySQL has a proven track record gained through millions of successful customer deployments that can lower your risk and maximize return on investment.

Learn More About How to Use MySQL Cluster Today!

Visit www.mysql.com/cluster for additional resources.

System Requirements (minimum)

OS	Linux (RedHat, SUSE), Mac OS X, and Solaris
CPU	Intel/AMD x86
Memory	512MB RAM
HDD	3GB
Network	1+ nodes (Standard Ethernet - TCP/IP)

The World's Most Popular Open Source Database