



MySQL Enterprise

The Most Comprehensive Enterprise Database, Services and Support

"The new DBA advisory services in MySQL Enterprise offer invaluable assistance by suggesting performance tuning tips and warning about potential security issues before they become real problems."

Jay Christner, IT Manager
SecurePipe, Inc.

The MySQL Enterprise subscription offering includes the most comprehensive set of MySQL database software, services and production support so your business achieves the highest levels of reliability, security and uptime. MySQL Enterprise includes:

- **MySQL Enterprise Server**, the most reliable, secure and up-to-date version of the world's most popular open source database
- **MySQL Network Monitoring and Advisory Service** that continuously monitors your database and proactively advises you on how to implement MySQL best practices
- **MySQL 24x7 Production Support** with guaranteed response times to assist you in the development, deployment and management of MySQL applications

MySQL Enterprise is a unified offering that significantly reduces the risk, cost, and time required in developing, deploying and managing business-critical MySQL applications. Only MySQL Enterprise enables you to:

- Maximize uptime with the most reliable, secure and up-to-date version of MySQL Server Software
- Simplify administration with MySQL Network Monitoring & Advisory Services

H I G H L I G H T S

- **MySQL Enterprise Server**
- **MySQL Network Monitoring and Advisory Service**
- **65+ MySQL Advisor Rules**
- **500+ Monitored Variables**
- **24x7 Production Support**
- **Emergency Hot Fix Builds**
- **Monthly Rapid Updates**
- **Quarterly Service Packs**
- **MySQL KnowledgeBase**

- Reduce Database TCO by 90%¹
- Gain in-depth visibility into the health of your MySQL servers
- Implement MySQL best practices using over 65 MySQL Advisor Rules
- Automatically receive MySQL service pack notifications with the Software Update Service
- Request emergency hot fix builds to ensure key business systems are not interrupted
- Solve your unique application issues quickly with direct access to MySQL Support
- Quickly find answers to technical questions using the comprehensive MySQL Knowledge Base



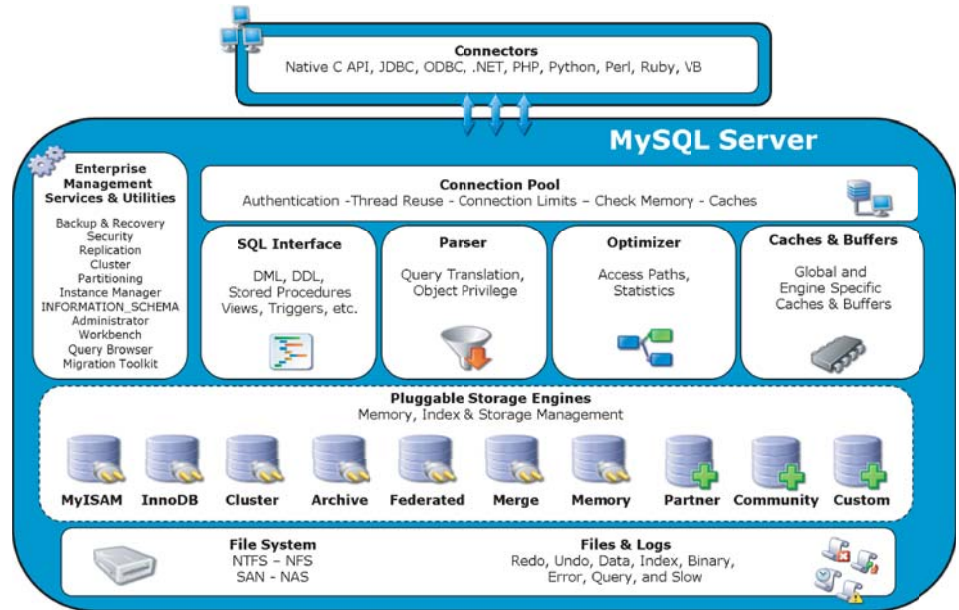
MySQL Enterprise Server

The Most Reliable, Secure and Up-to-Date Version of MySQL Database Software

MySQL Enterprise Server is the most reliable, secure and up-to-date version of MySQL Server software for cost-effectively delivering E-commerce, Online Transaction Processing (OLTP), and multi-terabyte Data Warehousing applications. It is a fully integrated, transaction-safe, ACID compliant database with full commit, rollback, crash recovery and row level locking capabilities. MySQL Enterprise Server delivers the ease of use, scalability, and high-performance that has made it the world's most popular open source database. MySQL also provides a full suite of database drivers and visual tools to help developers and DBAs build and manage their MySQL applications.

MySQL Enterprise Server provides the following advanced features:

- Stored Procedures to improve developer productivity
- Triggers to enforce complex business rules at the database level
- Views to reduce the complexity of data while increasing security
- Information Schema to provide easy access to metadata
- Pluggable Storage Engine Architecture for maximum flexibility
- Archive Storage Engine for historical and audit data
- Federated Storage Engine to create a single logical database from many physical servers
- Distributed Transactions (XA) to support complex transactions across multiple databases
- And much more!



MySQL's Pluggable Storage Engine Architecture

Timely Updates & Service Packs

As a MySQL Enterprise customer, you will automatically receive both monthly rapid updates and quarterly service packs with the latest bug-fixes and security updates. These frequent releases ensure that the most reliable, secure and up-to-date version of MySQL Enterprise Server is always available to you. The Software Update Service automatically notifies you of new rapid updates and service packs by sending you alerts via email, pager, or SMS.

Emergency Hot Fix Builds

In the unlikely event that a critical, business-stopping bug is discovered and has not already been fixed in a service pack, MySQL Enterprise customers can request a special hot fix build that resolves the issue. When mission-critical systems encounter bugs, hot fix builds are invaluable.

Enterprise Installer and Configuration Wizard

MySQL Enterprise includes many sophisticated installation and configuration tools. A graphical or text-based install routine intelligently installs all proper software, including the MySQL Enterprise Server, database drivers, management tools and documentation.

In addition, the MySQL Enterprise Server contains pre-defined configuration settings to ensure MySQL performs optimally on production hardware. The Configuration Wizard ensures that all resource usage settings, data integrity configurations, and storage engine assignments are made right the first time. This enables DBAs to reduce the time they spend configuring the database to get their applications into production faster.

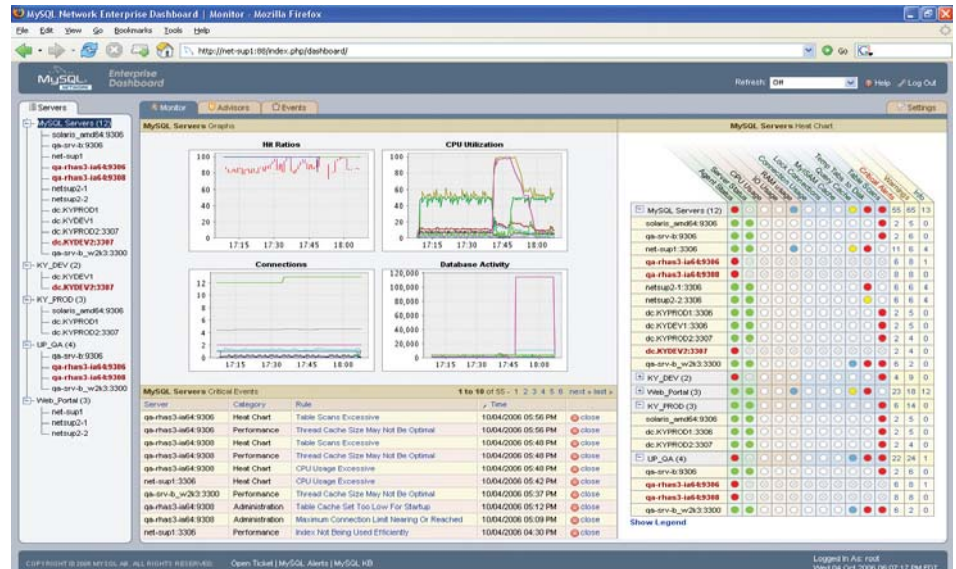
MySQL Network Monitoring and Advisory Service

Your Virtual MySQL DBA Assistant

The MySQL Network Monitoring and Advisory Service continuously monitors your MySQL servers and alerts you to potential problems *before* they impact your system. Its like having a “Virtual DBA Assistant” at your side to recommend best practices and eliminate security vulnerabilities, improve replication, optimize performance and more. As a result, DBAs and System Administrators can manage more servers in less time.

The MySQL Network Monitoring and Advisory Service includes the following Advisors:

- **Administration Advisor** – enforces DBA best practices to prevent costly outages
- **Security Advisor** – minimizes exposure to security vulnerabilities
- **Replication Advisor** – recommends solutions for replication setup and performance improvements
- **Schema Advisor** – assists in uncovering database design issues that hurt performance
- **Performance Advisor** – recommends changes to boost database performance
- **Custom Advisor**– create custom best practice rules tailored to your needs



MySQL Network Monitoring and Advisory Services provides at-a-glance view at the health of your MySQL database servers

Easily Enforce MySQL Recommended Best Practices

The MySQL Monitoring and Advisory Service includes over 65 MySQL Advisor Rules that monitor over 500 MySQL and OS-specific variables and help you automatically enforce MySQL recommended database best practices. They deliver expert advice that come straight from the database professionals who build the MySQL database server. The Advisors provide tailored recommendations that communicate step-by-step how to solve a particular problem.

Each Advisor recommendation clearly communicates what the identified issue is, the recommended way to correct the problem and where appropriate, the MySQL command to fix the issue. Advice is delivered via email notifications or can be accessed using the visual Enterprise Dashboard.

Results | Details | Advanced

CRITICAL Alert - Query Cache Has Sub-Optimal Hit Rate

Server
qa-srv-b_w2k3:3300

Time
10/04/2006 12:39 PM (5:31 ago)

Advisor
Heat Chart

Problem Description
When enabled, the query cache should experience a high degree of "hits", meaning that queries in the cache are being reused by other user connections. A low hit rate may mean that not enough memory is allocated to the cache, or that identical queries are not being issued in the system.

Advice
Increase the size of the query cache by increasing `query_cache_size` dynamically, then monitor the cache hit rate for improvements. Once you reach an acceptable hit ratio, set that value for `query_cache_size` within your `my.cnf/my.ini` file so the variable is reset properly when the server is restarted.

The Query Cache size is currently set to 209715200 bytes with 3360 queries inserted, and 24018 queries read from the cache, while 9666 were not cacheable.

Recommended Action
SET GLOBAL query_cache_size = (@@global.query_cache_size + 16*1024*1024);

Links and Further Reading
[MySQL Manual: The Query Cache](#)
[MySQL Articles: The Query Cache](#)
[MySQL Knowledge Base: How can the query cache be managed?](#)

hide

The MySQL Performance Advisor provides problem descriptions, proactive advice and specific commands to improve MySQL performance.

24 x 7 Production Support

Enterprise Support to Answer Your Toughest Questions

MySQL Enterprise includes 24x7 technical support services to help you get your toughest questions answered quickly. MySQL Enterprise Platinum includes:

- Unlimited Support Incidents to fix any number of issues
- Emergency response times of under 30 minutes for the most critical problems
- 24x7 Problem Resolution Support to quickly resolve specific problems
- 24x7 Consultative Support where a MySQL Support Engineer will advise you on how to properly design and tune your MySQL servers, schema, queries and replication set-up for better performance
- Comprehensive Knowledge Base with over 1,000 technical articles covering performance, replication, security and more.
- Proactive Account Management gives you the option of having a dedicated Technical Account Manager who ensures you get the most of MySQL Support services.

The MySQL support team engineers are database experts and understand the real-world issues and challenges you face because they've overcome these same challenges themselves. With direct access to the MySQL support team your problems will get fixed fast.

MySQL Enterprise: The Smart Choice

For your most important applications, MySQL Enterprise is the smart choice. It provides a comprehensive offering of enterprise-grade software, support and services directly from the developers of MySQL to ensure the highest levels of reliability, security and uptime.

With MySQL Enterprise you have the flexibility to choose from multiple tiers (Basic, Silver, Gold, Platinum), to best meet your needs.

To learn more about how you can benefit from MySQL Enterprise, go to www.mysql.com/enterprise.

1 - Guide to Lower Database TCO, MySQL AB, 2006

Partial List of MySQL Enterprise Customers

Alcatel	Lucent
Amazon.com	Lufthansa
The Associated Press	NASA
Bank of America	Nortel
Caterpillar	NYSE
Continental Airlines	Sabre Holdings
DaimlerChrysler	Siemens
Deutsche Post	Southwest Airlines
Dow Jones	Time Inc.
Disney	UPS
Ericsson	US Army
Google	US Dept. of Defense
HypoVereinsbank	US Navy
Lockheed Martin	Wells Fargo
Los Alamos Natl. Labs	Yahoo!

Partial List of MySQL Partners

Actuate	Novell
Alfresco	Pentaho
Business Objects	Quest
Computer Associates	Rackspace
Dell	Redhat
Embarcadero	SAP
GoldenGate	SugarCRM
HP	Sun
Intel	Symantec
JasperSoft	Zend
JBoss	Zimbra



The World's Most Popular Open Source Database

Copyright © 2006, MySQL AB. MySQL is a registered trademark of MySQL AB in the U.S. and in other countries. Other products mentioned are the trademarks of their respective corporations.

MySQL Sales

USA Toll Free: 1-866-697-7522 **Worldwide:** +1-208-514-4780

MySQL Worldwide Offices

North America Headquarters
Cupertino City Center Building
20450 Stevens Creek Blvd.
Suite 350
Cupertino, CA 95014
+1-408-213-6600

Seattle
2510 Fairview Avenue East
Seattle, WA 98102 USA
+1-206-336-2030

Worldwide Headquarters
Bangårdsgatan 8
S-753 20 Uppsala
Sweden
+46-730-234-111 Sales

Spain, Portugal, Latin America
+1-425-373-3434

Finland
+358 9 852 1421

United Kingdom
+44 (0)845 399 1124

Ireland
+353-1-6177878

France
+33-(0)1-43-077-099

Germany, Austria, Switzerland
+49 (0)89/724 99-150