What's New at MySQL?

Lenz Grimmer

FOSDEM, Brussels, Belgium, 2007-02-24

MySQL AB
MySQL Community Team

Kaj Arnö, VP Community Relations (Munich)

Contact: community@mysql.com

David (Uppsala)  Colin (Melbourne)  Jay (Columbus)  Lenz (Hamburg)
MySQL Community Server 5.0

- MySQL Community Server 5.0.35
  - http://dev.mysql.com/downloads/mysql/5.0.html
  - Sources and binaries for the usual platforms
  - Based on the 5.0.34 Enterprise release (all bug fixes included)
  - Includes additional community contributions (e.g. uptime_since_flush_status, SHOW PROFILE), more to come in future releases
  - MySQL AB will continue to provide full (source and binary) releases of MySQL 5.0 Community, plus intermediate source-only releases
MySQL 5.1

• MySQL 5.1.x in Beta-Test (5.1.15)
  – Partitioning: distribute portions of individual tables across a filesystem
  – RBR (Row-based replication), in addition to statement-based replication
  – Plugin API (for Storage Engines & Full Text Search)
  – Event Scheduler: execute SQL statements on defined intervals (similar to cron)
  – Log tables: redirect general query log and slow query log into tables
  – MySQL cluster data on disk, replication between clusters
  – XML functions: extract or update XML elements using Xpath expressions
New Falcon storage engine

- Falcon storage engine now in Alpha testing
  - Download: http://dev.mysql.com/downloads/mysql/5.2.html
  - New transactional storage engine for MySQL
  - Developed by Jim Starkey
  - True Multi Version Concurrency Control (MVCC)
  - Flexible locking levels and smart deadlock detection
  - Multithreaded to allow multiple transactions and fast transaction handling
  - Transaction-safe (fully ACID-compliant)
  - Advanced B-Tree indexes
  - Scheduled for MySQL 5.2
Pluggable Storage Engines

• New plugin API in MySQL 5.1
  – Allows the loading and unloading of server components at runtime (no restart required)
  – Full-text parser plugins supported, more to come

• Pluggable Storage Engines
  – solidDB: [http://dev.soliddb.com/download/](http://dev.soliddb.com/download/)
Quality Contribution Program

• Goals
  – Further improving the quality of MySQL products, with the active co-operation of the community
  – Visibly acknowledging the participants by attributing individual quality enhancements to them
  – Rewarding the participants with benefits in proportion to their contribution;
  – Streamline the process of contributing to MySQL Quality for the benefit of both current and future contributors

• Possible Contributions
  – Bug reports
  – Test cases
  – Code patches

• http://forge.mysql.com/wiki/Contributing
• http://dev.mysql.com/qualitycontribution.html
MySQL GUI Tools

• GUI tools bundle 5.0r9
  – http://dev.mysql.com/downloads/gui-tools/5.0.html
  – MySQL Administrator 1.2.9
  – MySQL Query Browser 1.2.9 RC
  – MySQL Migration Toolkit 1.1.9
  – MySQL Workbench 1.1.9 alpha
  – Binaries for Windows, Linux, Mac OS X
Connectors for PHP

• New MySQL native driver for PHP
  – New ext/mysqli driver for PHP6 (PHP5 support planned), supports MySQL 4.1 and newer
  – Licensed under the PHP license, does not need MySQL Client library (less hassle with versions)

• MySQLi Converter Tool
  – A collection of PHP scripts that help you upgrade PHP applications using the old PHP mysql extensions to using the newer PHP mysqli extension
  – http://forge.mysql.com/wiki/Converting_to_MySQLi

• MySQL Connector/PHP for Windows
  – PHP5 driver for win32 (mysql and mysqli extension)
  – MySQL 4.1 and 5.0
MySQL Connectors

• MySQL Connector/ODBC 5.00.11 Beta
  – http://dev.mysql.com/downloads/connector/odbc/5.0.html

• MySQL Connector/Net 5.0.3 GA
  – http://dev.mysql.com/downloads/connector/net/5.0.html
  – Support for ADO.Net 2.0 interfaces and subclasses
  – Re-architected to improve speed and flexibility
  – Implemented Usage Advisor
  – Implemented asynchronous query methods
  – Implemented stored procedure metadata caching
  – Added PerfMon hooks
MySQL Tools for Visual Studio

• MySQL Tools for Visual Studio 1.1.2
  – http://dev.mysql.com/downloads/visual-studio-plugin/1.0.html
  – To build MySQL data-driven applications with MS Visual Studio 2005
  – Create, modify and manage MySQL database objects from within the Visual Studio IDE.
  – Now added support for using the DataSource wizard and the DataSet designer
Events

• MySQL Conference & Expo 2007
• http://mysqlconf.com/
• April 23-26, 2007, Santa Clara CA
• Over 110 sessions and Tutorials
• DotOrg-Pavilion
  – dotProject
  – Drupal
  – Joomla!
  – Phorum
  – phpMyAdmin
  – XAMPP
  – many others
MySQL Community Sites

• Downloads/Docs: http://dev.mysql.com/
• MySQL Forge: http://forge.mysql.com/
  – Project directory
  – Code Snippets
  – Community Wiki
• Planet MySQL: http://planetmysql.org/
  – Blog-Aggregator
  – Also in German and Spanish
• MySQL Forums: http://forums.mysql.com/
• MySQL Mailinglists: http://lists.mysql.com/
• Bug DB/Source trees
  – http://bugs.mysql.com/
  – http://svn.mysql.com/
  – http://mysql.bkbits.net/
  – http://svn.mysql.com/fisheye/