Opening the doors (and windows) of the Cathedral Enabling an architecture of participation around the MySQL Server

2007-08-25 FrOSCon, St. Augustin, Germany Lenz Grimmer <lenz@mysql.com> Community Relations Manager MySQL AB

Introduction



Eric S. Raymond: "The Cathedral and the Bazaar" http://catb.org/~esr/writings/cathedral-bazaar/

How many of you...



Use MySQL? Visited the MySQL Bug Database? Submitted a bug report to MySQL? Visited MySQL Forge? Submitted a project/snippet to Forge? **Contributed to the Forge Wiki?** Visited #mysql on freenode.net? Visited #mysql-dev on freenode.net? Submitted a patch to MySQL?

Open Source Company -Closed Development History



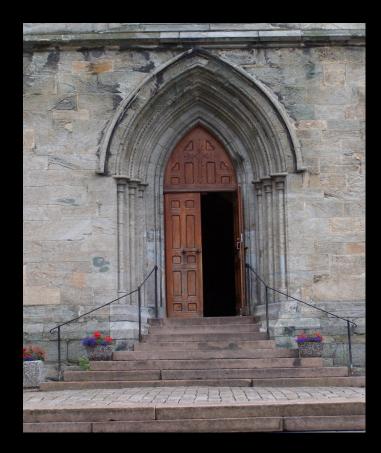
FOSS since its inception Public bug tracking Developers recruited from the community **Roadmap only partly** visible/vague **Code reviews performed** internally **Obstacles in contributing** patches No direct interaction with developers



Desire for change



Direct feedback and interaction **More Transparency** Grow the MySQL developer community **Easier to learn MySQL** internals Easier to contribute to **MySQL** Follow the OSS spirit



Steps before 2007



MySQL Bug Database MySQL Forge & Wiki Planet MySQL Quality Contributor Program **Contributor License** Agreement MySQL Camp I (at Google Campus)



MySQL Bug DB



http://bugs.mysql.com/ **Opened Sep 2002 to replace mailing list Bug tracking for all products** Bug screening team to verify all bugs **Transparent Workflow** Patches are attached automatically Based on the PHP bug tracking system Source code available! http://bugs.mysql.com/bzr/

MySQL Forge



http://forge.mysql.com Project list Code snippets Wiki Worklog

Planned: Voting, commenting more user activity



Planet MySQL



RSS Feed Aggregator of MySQL-related blogs English, German. French & Spanish Archives of past entries Not based on Planet Planet (own development in PHP/MySQL)

Quality Contribution Program



dev.mysql.com/qualitycontribution.html **Bug reports Test scripts** Patches Performance **Benchmarking Point system** Rewards

New Steps in 2007



Community Engineering Team MySQL University **Google Summer of Code** Worklog **MySQL** Camp **Heidelberg Developer Meeting #mysql-dev IRC channel on freenode.net** Internal documentation on Forge Wiki **Code reviews in public**

MySQL University



forge.mysql.com/wiki/MySQL University Highest form of education on how to code on MySQL Targeted at MySQL Employees, but open for anyone FRE **Forge Wiki** Freenode IRC A (#mysql-university) IceCast audio stream SIG.YT

Google Summer of Code



http://forge.mysql.com/wiki/SummerOfCode 10 projects 8 mentored by MySQL AB hosts 9 delivering

Jin Chen: A Performance Analysis Tool Charles Cahoon: MySQL Load Testing Mayssam Sayyadian - MySQLXplorer: Enabling Keyword Search Vangelis Katsikaros - Exploring MySQL's SQL optimizer

Warren Kenny: MySQL Auditing Software Umair Mehmood Imam: MySQL Auditing Software

Andrew Dashin: MyWebER

Milos Prodanovic: IPv6 network support Senlin Liang: Unit Testing



Worklog



http://forge.mysql.com/worklog/ **Technical specifications for new features** We need your input on contents, specifications, priorities and desirability

S	Search For:
	Look In:

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Most Recent Comments

Look In: WL Task ID#			Task	Added On	Ву	
Advanced Search			WL#1042: Stream (similar to BLOB) type	Aug 19 @ 09:11	Paul McCullagh	
Recently Added/Modified Tasks			This functionality will be implemented as part of the project to provide a scalable BLOB storage and streaming infrastructure for MySQL. The BLOB Streaming			
Title	Modified	Status	Version	engine for MySQL (MyBS) already provides a way to upload and download data as a stream, directly to and from a MySQL		d download BLOB
WL#3953: Log Access Denied errors for bad passwords in the	Aug 22 @ 23:48	Code-Review	Server-5.2	WL#3583: BLOB Locator API	Aug 19 @ 08:53	Paul McCullagh
error log				This functionality has been implemented by the BLOB Streaming engine for MySQL (MyBS), as part of the project to provide a scalable BLOB storage and streaming infrastructure for MySQL. Download and documentation is available at:		
WL#4014: Extended and Improved Discovery	Aug 19 @ 20:51	Un-Assigned	Server-6.1			
WL#896: Primary, Secondary and Tertiary Sorts	Aug 16 @ 21:52	Assigned	Server-7.0	http://www.blobstreaming.org The MySQL WL#1226: Add Streamed LOAD DATA INFILE	Aug 11 @ 15:36	Andrew A
WL#3751: Subquery optimization: Semijoin: Inside-out strategy	Aug 16 @ 21:31	In-Documentation	Server-5.2	support This would be an excellent addition to avoid needing to use INSERT queries for many new records when the data is arriving in real time in large quantities.		
WL#3750: Subquery optimization: Semijoin: First-match strategy	Aug 16 @ 21:30	In-Documentation	Server-5.2	many new records when the data is arriving in WL#1075: Add support for functional indexes		Nils Meyer
WL#4013: Unicode german2	Aug 16 @ 20:24	Un-Assigned	Server-7.1	Would be very useful for me in many cases. Add it soon!		
collation				WL#1075: Add support for functional indexes	Jul 18 @ 15:19	Scott Noyes

MySQL Camp



August 23rd-24th, 2007

http://mysqlcamp.org An Unconference in BarCamp Style **MySQL devs and Community meet and** discuss a wide range of topics: **Backup/Recovery** Lucene Indexing **Storage Engines** MySQL Camp **MySQL** Proxy Polytechnic University Brooklyn, New York

Developer Meeting



20-21.9.2007 in Heidelberg, Germany Workshops Team Exhibitions MySQL University Sessions Guests meeting MySQL developers

> Developers Meeting Heidelberg, Germany 2007

MySQL Internals



http://forge.mysql.com/wiki/MySQL_Internals In-depth documentation of the inner workings of the MySQL Server Specification of the Client/Server-Protocol, file formats, Optimizer etc. Algorithms and Structures Storage Engines / Replication Coding Guidelines

Mailing Lists



http://lists.mysql.com/commits **Reviews / approval of code modifications Comments on coding style, performance** implications, other caveats No code is pushed without review / approval http://lists.mysql.com/internals **Discussing server internals Proposing new patches Debugging help**

Public IRC



http://forge.mysql.com/wiki/IRC Public channel #mysql-dev on irc.freenode.net Direct contact to MySQL devs and community contributors

Ecosystem



MySQL GUI tools http://mysql.com/products/tools/ **MySQL** Administrator **MySQL Query Browser MySQL Workbench MySQL Migration Tool MySQL** Connectors http://mysql.com/products/connector/ **MySQL Connector/ODBC MySQL** Connector/J **MySQL** Connector/Net

MySQL Proxy



http://forge.mysql.com/wiki/MySQL_Proxy monitor, analyze or transform data exchanged between MySQL Client & Server Controlled by Lua scripts Use cases:

Ioad balancing failover query analysis query filtering and modification



Thank you!



Questions?



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