

Zmanda Recovery Manager for MySQL: Roadmap, Vision and Demonstration

Paddy Sreenivasan

paddy@zmanda.com

MySQL Users Conference 2007

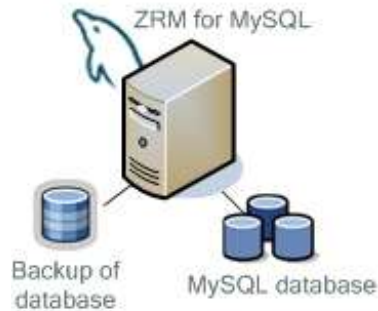
April 25, 2007

Zmanda Recovery Manager for MySQL

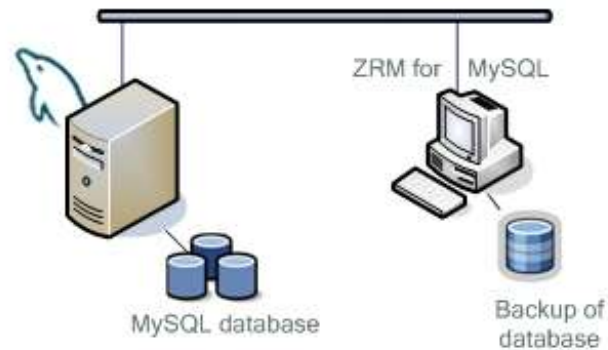
- Backup live database with minimal impact on application and users
- Versatile
 - support for a variety of MySQL implementations
 - scale up and scale out
 - backup of local or remote MySQL servers
 - intelligent about underlying storage
- Granular Recovery Point Objective
 - Often time a DBA wants to go back to a particular database event
- Enterprise management functionality
 - Flexible scheduler
 - Backup policy
 - Monitoring and reporting
 - Event notifications (including RSS feeds)
- Flexible, easy to use and secure



ZRM local to MySQL



ZRM remote to MySQL



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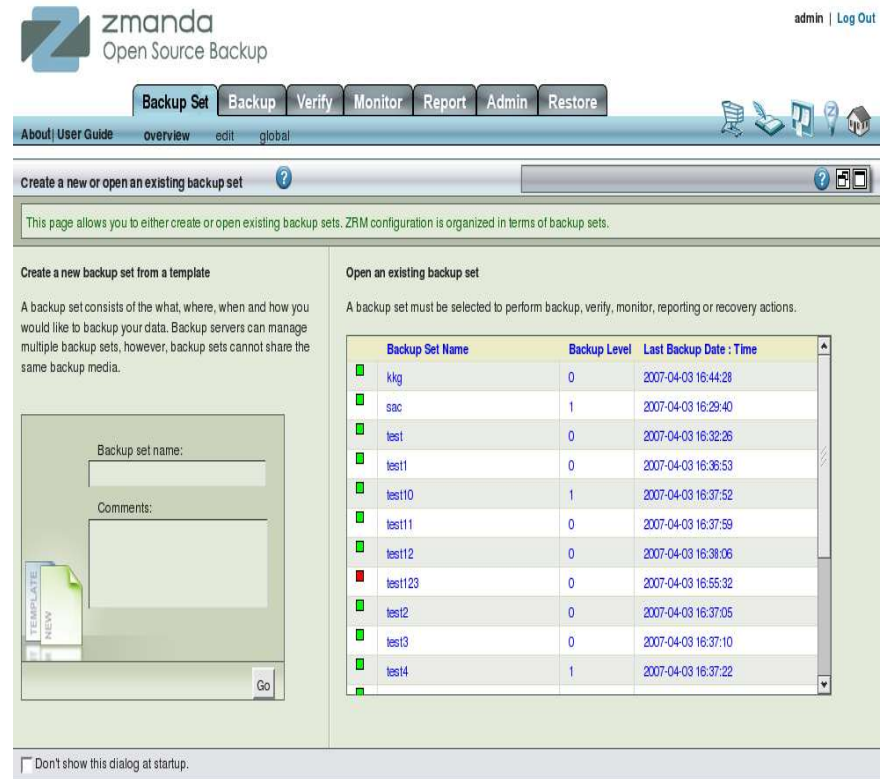
- Recover database easily to any point in time or to any particular database event
- Schedule full and incremental, logical or raw backups of MySQL databases
- Perform backup that is the best match for used storage engine and MySQL configuration
- Enforcement of site or application specific backup policy, Plugin architecture



| Backup Method | No Locking | DDL | Snapshot | Remote | Free | All Engines | All Tables | Text File | Recover Corruption |
|--------------------------|------------------|--------|----------|--------|------|-------------|------------|-----------|--------------------|
| MySQL Online Backup | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes |
| mysqldump | No | Option | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Replication | Yes | No | Yes | Yes | Yes | Yes | Yes | No | No |
| OS level copy + Snapshot | No | Yes | Yes | No | Yes | No | Yes | No | Yes |
| mysqlhotcopy | Yes | Yes | Yes | No | Yes | No | Yes | No | Yes |
| InnoDB HotBackup | Yes | Yes | Yes | No | No | No | Yes | No | Yes |
| SELECT ... INTO OUTFILE | Engine Dependent | No | No | Yes | Yes | Yes | No | Yes | Yes |

Roadmap

- Zmanda Management Console
- MySQL backup reporting improvements (including MySQL log analyzer)
- Backups using Online Backup API
- Deeper integration with MySQL applications
- Support for more storage engines
- Enhancements for MySQL on Windows
- Backups to storage grids - Amazon S3



The screenshot shows the Zmanda Management Console interface. At the top, there is a navigation bar with tabs for 'Backup Set', 'Backup', 'Verify', 'Monitor', 'Report', 'Admin', and 'Restore'. Below this is a sub-navigation bar with 'About', 'User Guide', 'overview', 'edit', and 'global'. The main content area is titled 'Create a new or open an existing backup set'. It contains two sections: 'Create a new backup set from a template' and 'Open an existing backup set'. The 'Open an existing backup set' section features a table with the following data:

| Backup Set Name | Backup Level | Last Backup Date : Time |
|-----------------|--------------|-------------------------|
| kgg | 0 | 2007-04-03 16:44:28 |
| sac | 1 | 2007-04-03 16:29:40 |
| test | 0 | 2007-04-03 16:32:26 |
| test1 | 0 | 2007-04-03 16:36:53 |
| test10 | 1 | 2007-04-03 16:37:52 |
| test11 | 0 | 2007-04-03 16:37:59 |
| test112 | 0 | 2007-04-03 16:38:06 |
| test123 | 0 | 2007-04-03 16:55:32 |
| test2 | 0 | 2007-04-03 16:37:05 |
| test3 | 0 | 2007-04-03 16:37:10 |
| test4 | 1 | 2007-04-03 16:37:22 |

At the bottom of the interface, there is a checkbox labeled 'Don't show this dialog at startup.' which is currently unchecked.

Backup and Recovery of Falcon Database

1. Full backup of Falcon Database
2. Make some changes to the Database
3. Incremental backup
4. Backup reports
5. Restoration of the Database

How to get more information?

- MySQL users conference booth 415
- ZRM for MySQL talk today at 3:35pm
- Keynote by Chander Kant on Thursday 9:50am

- Home page <http://www.zmanda.com/backup-mysql.html>
- Download from <http://www.zmanda.com/downloads.html>