



PALOMINO_{DB}

Proven Database Excellence

Converting MyISAM tables to InnoDB

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Why convert?

- ACID compliance
- Row-level locking
 - High mixed read/write traffic
- Foreign key constraints



What InnoDB Lacks

- Separate, configurable key buffers
- Exact metadata
- REPAIR table will rebuild



InnoDB does not support:

- INSERT DELAYED
- Fulltext searching
- CREATE TABLE...CHECKSUM=1
- DELAY_KEY_WRITES



How to convert

- Export and import
 - mysqldump
- ALTER TABLE



Things To Know About InnoDB

- Centralized Data Dictionary
- Undo/Redo logs
- Better crash recovery
- Cannot copy individual files for backup



Things to Know About InnoDB

- Estimated metadata
- Doublewrite buffer
- Log buffer



Basic InnoDB configuration

- `innodb_file_per_table`
- `innodb_buffer_pool_size`
- `innodb_log_file_size`
- `innodb_log_buffer_size`



Change Existing MyISAM configuration

- `key_buffer_size`
 - And any named key caches

- REPAIR/OPTIMIZE TABLE:
 - `myisam_sort_buffer_size`
 - `myisam_max_sort_file_size`



InnoDB I/O

- `innodb_read_io_threads`
- `innodb_write_io_threads`



Export/Import Conversion Plan

- [Export with mysqldump]
 - Separate schema & data, --no-data, --no-create-info
 - Edit schema files to change storage engine to InnoDB
 -
- Shutdown mysql
- Change configuration
- Start up mysql
- Double-check



Export/Import Conversion Plan

- Shutdown mysql
- Change configuration
- Start up mysql
- For each table: `ALTER TABLE foo ENGINE=InnoDB`
- Double-check



MySQL Resources

- Planet MySQL - <http://planet.mysql.com>
- OurSQL podcast - <http://oursqlcast.com> or search for “MySQL” on iTunes
- <http://dev.mysql.com>
 - MySQL Manual
 - Forums
- <http://bugs.mysql.com> - Bugs database



Thanx!

- Slides -

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