4 mini talks in 1

- Staying in the picture
- Victories and battle wounds from the front
- Blood out of Stone / Failure No Emergency
- New blood into the system

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Staying In the Picture

moving beyond the image of a fork and staying/becoming a supported platform for more open source projects.
MariaDB is an enhanced, drop-in replacement for MySQL and is available under the Terms of the GPL v2 license.
Language in official docs (cont)

- https://www.drupal.org/documentation/install/create-database

- Web browser-based control panel (such as "CPanel" or "Plesk")
- phpMyAdmin
- Creating the database directly (advanced users)
  - Create a database using MySQL commands
  - Create a database using PostgreSQL commands
Official Goals

- Maintain MySQL equivalent functionality
- Upgrades and downgrades between minor version
- ...
- ...
- ...

(Eric's talk from Tues)
Supported Connectors

- https://travis-ci.org/PyMySQL/PyMySQL/jobs/82853525
Supported Connectors (cont)

https://github.com/go-sql-driver/mysql (Go)
https://github.com/brianmario/mysql2 (Ruby)
https://github.com/balderdashy/sails-mysql (Sail.js)
https://github.com/jugglingdb/mysql-adapter (JugglingDB)
Supported Products

- https://qa.drupal.org/pifr/status

![Table of Test clients](image)
Your thoughts?

- Is MariaDB seen as at least equal status than MySQL generally
- What other things can be done to remove any negative perceptions?
Victories and Battle wounds
(consulting with clients)
Victories

- All ongoing clients of Open Query are now on MariaDB
- Migration was never a hard sell
- They are staying on it because:
  - Stability
  - Response times to critical bugs
- Galera is in production
  - few large users are looking at it too
Largest Fears

- Replication failure (and Galera)
  - Embarrassingly high use of slave_skip_errors (galera and async)
Largest Fears

- Server aborting

Count (text ~ "abort" and status!=closed ) = 144
Count(text ~ "segment fault" and status!=closed) = 14
Largest Fears

- Server aborting
Causing Hardship – default settings

- (Aka what brings new clients)
- Default settings have only just to move beyond at year 2000 level and not taking into account new features
- MySQL - Morgan Tocker – getting Mysql-5.7 changes done
- getting good changes in early (MDEV-7635)
Greatest Annoyance

• Realization of fears
  - replication failure
  - Asserts / aborts
Annoyance

- Variables that aren't dynamic (very few left)
  - log_slave_updates
  - slave_slave_updates
    - Stopped io/sql thread to make change acceptable
    - Stopped server isn't

- More online table alterations are good
Annoyance

- Analyze table blocking – hampers use of engine independent statistics (MDEV-7901)
- `mysql -NB -u openquery -p -e "select CONCAT('ANALYZE NO_WRITE_TO_BINLOG TABLE ',TABLE_SCHEMA,'.',TABLES.TABLE_NAME, ' PERSISTENT FOR ALL') from information_schema.TABLES LEFT JOIN mysql.table_stats ON TABLES.TABLE_NAME=table_stats.table_name AND TABLES.TABLE_SCHEMA=table_stats.db_name where TABLE_SCHEMA NOT IN ('information_schema', 'performance_schema', 'mysql', 'sys') and table_stats.table_name is null and TABLES.TABLE_TYPE='BASE TABLE';" | while read cmd; do mysql -e "${cmd}" & sleep 0.5; done
- `( mysqldump --skip-add-locks --skip-lock-tables --no-create-info --replace mysql column_stats index_stats table_stats ; echo 'flush tables;'; ) | mysql -u openquery -p -h DESTINATION mysql`
- More online table alterations are good
Failure not an Emergency

Kernelopps.org
Blood out of Stone / Failure is not Emergency

Alternatives - Asserts and Abort

• Aborts(), SEGV
• Killing thread?
  – Restructuring cleanup - mutex cleanup
• Opportunities – generating debug information
New Blood into the system