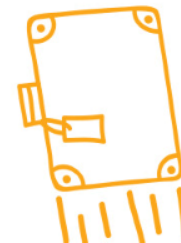


Replication from MySQL to Tarantool

Alexander Yakovlev

wamba



The main reasons

- 5.6 last version with HandlerSocket
- 5.7 with GIS
- 5.7 with merge index
- All servers must be with the same version



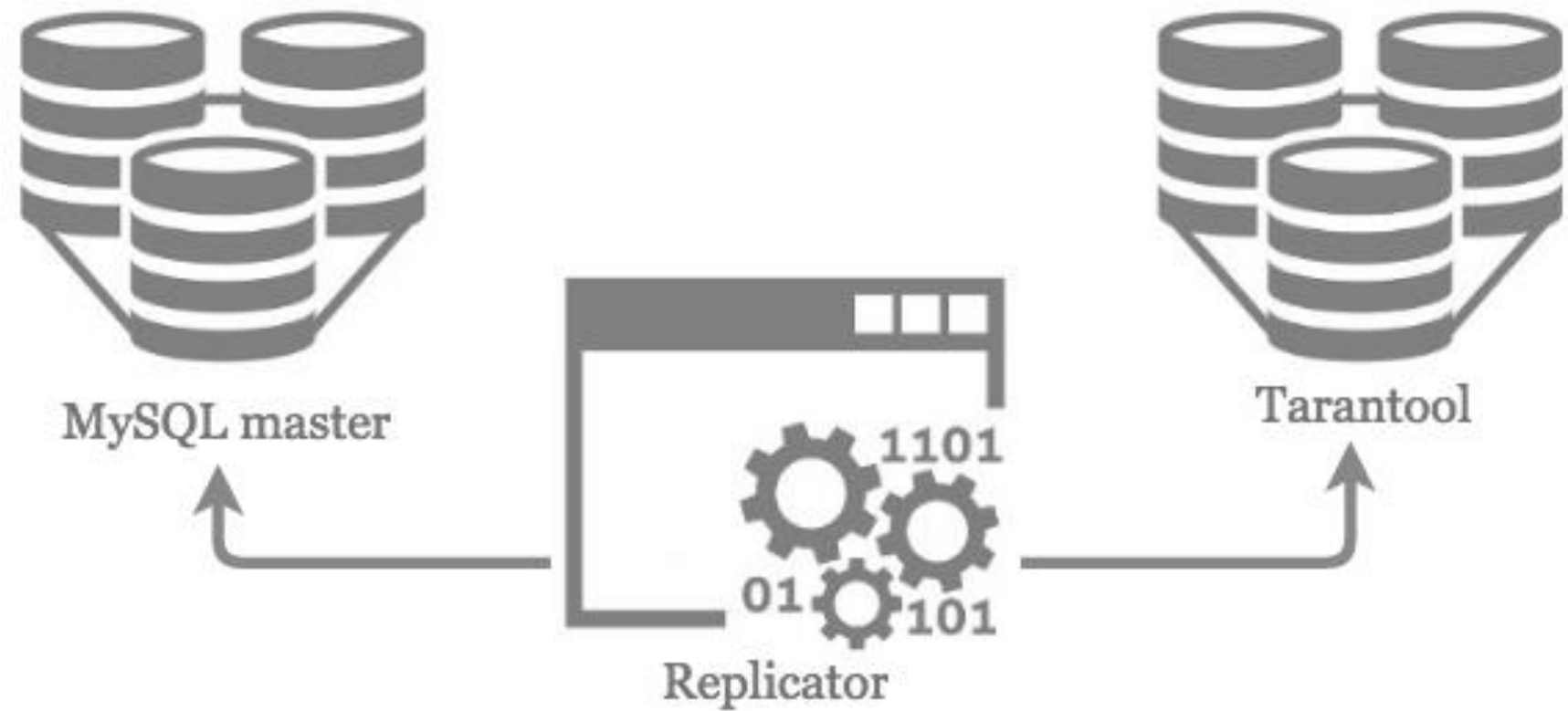
Why Tarantool

1. Mailru Group has already had replication from MySQL to NoSQL that we can use
2. The fastest response time
3. Minimum of changes in the existing structure

Replicator

- Independent daemon
- Row-based
- One slave = one daemon
- Percona/Oracle

Replicatord

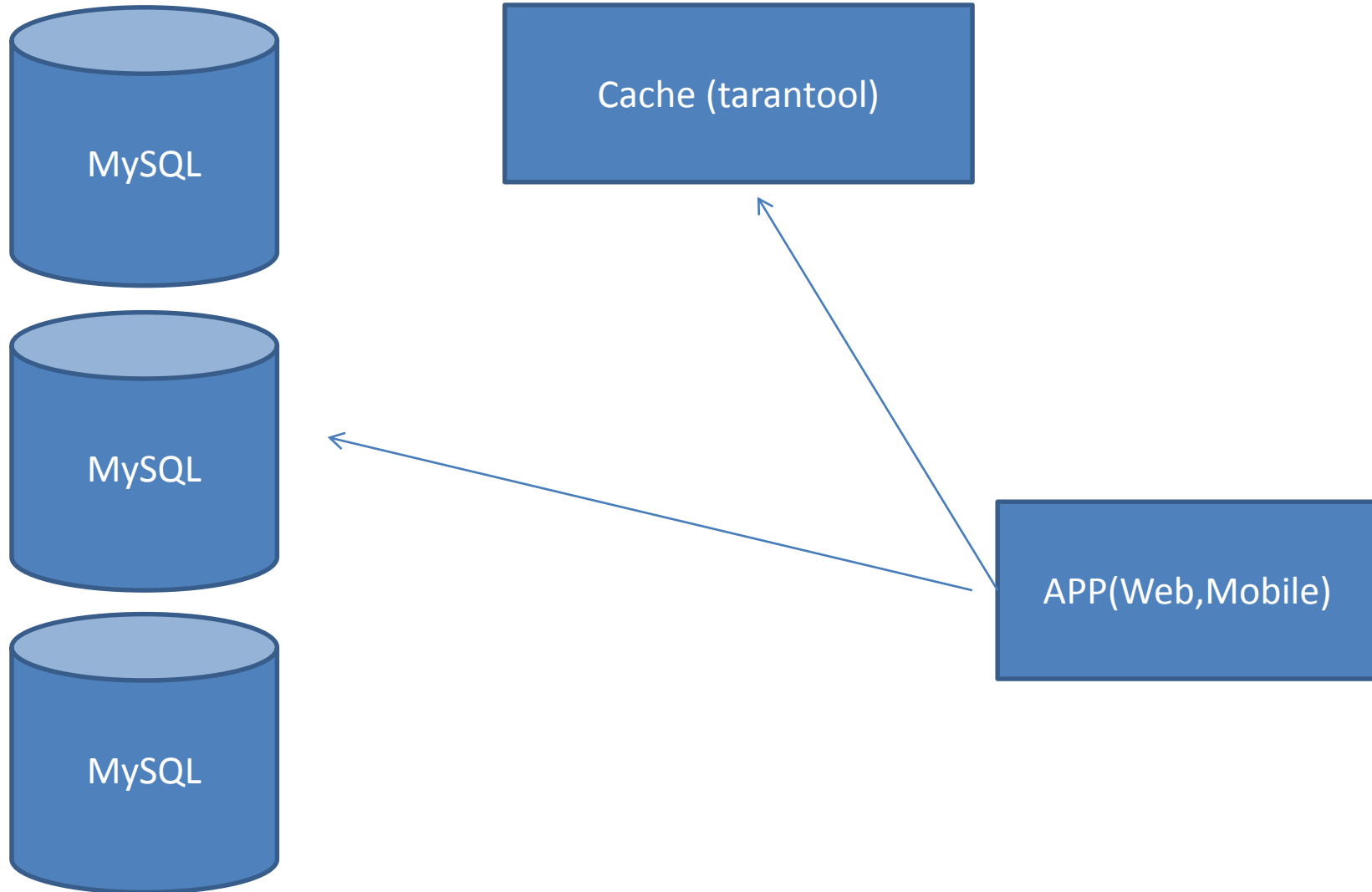


Features

- Cold start
- Replication control mechanism



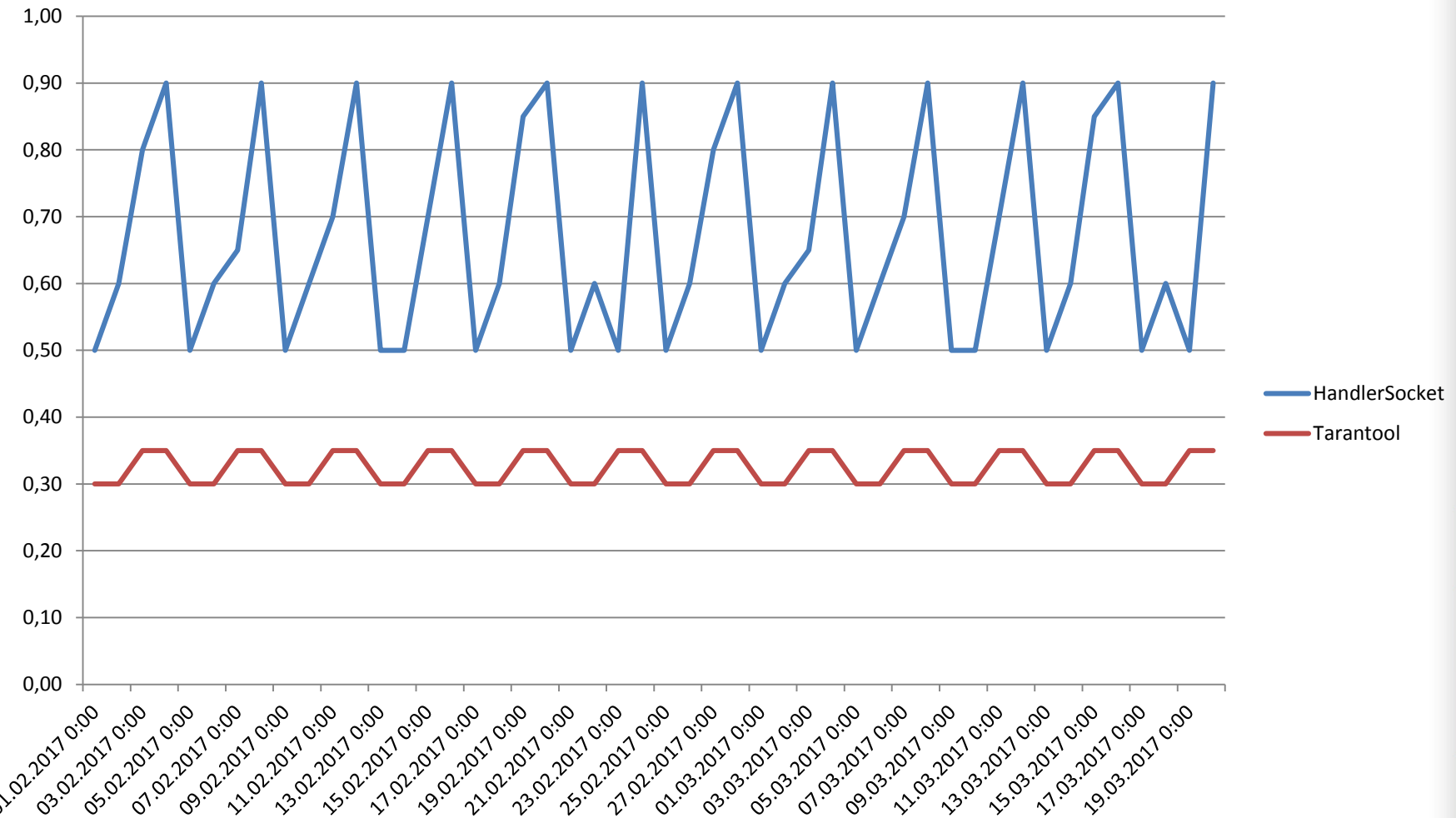
Another way



Problems of solution

- Large changes in the code
- Jeff Atwood “There are two hard things in computer science: cache invalidation, naming things, and off-by-one errors.”

Tarantool vs HS



Difficult way ? NO

Don't re-invent
the **wheel**



Why this way

- Replicate even columns
- Absolute in-memory DB
- Save memory, save SSD, save money



Results

- Tarantool faster
- Easy
- Community
- Snapshot
- Dump/restore
- Replication faster than MySQL replication



Todo

- Case insensitive
- SQL

BSD License.

<https://github.com/tarantool/my-sql-tarantool-replication>



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