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Building a High Availability Solution that Works

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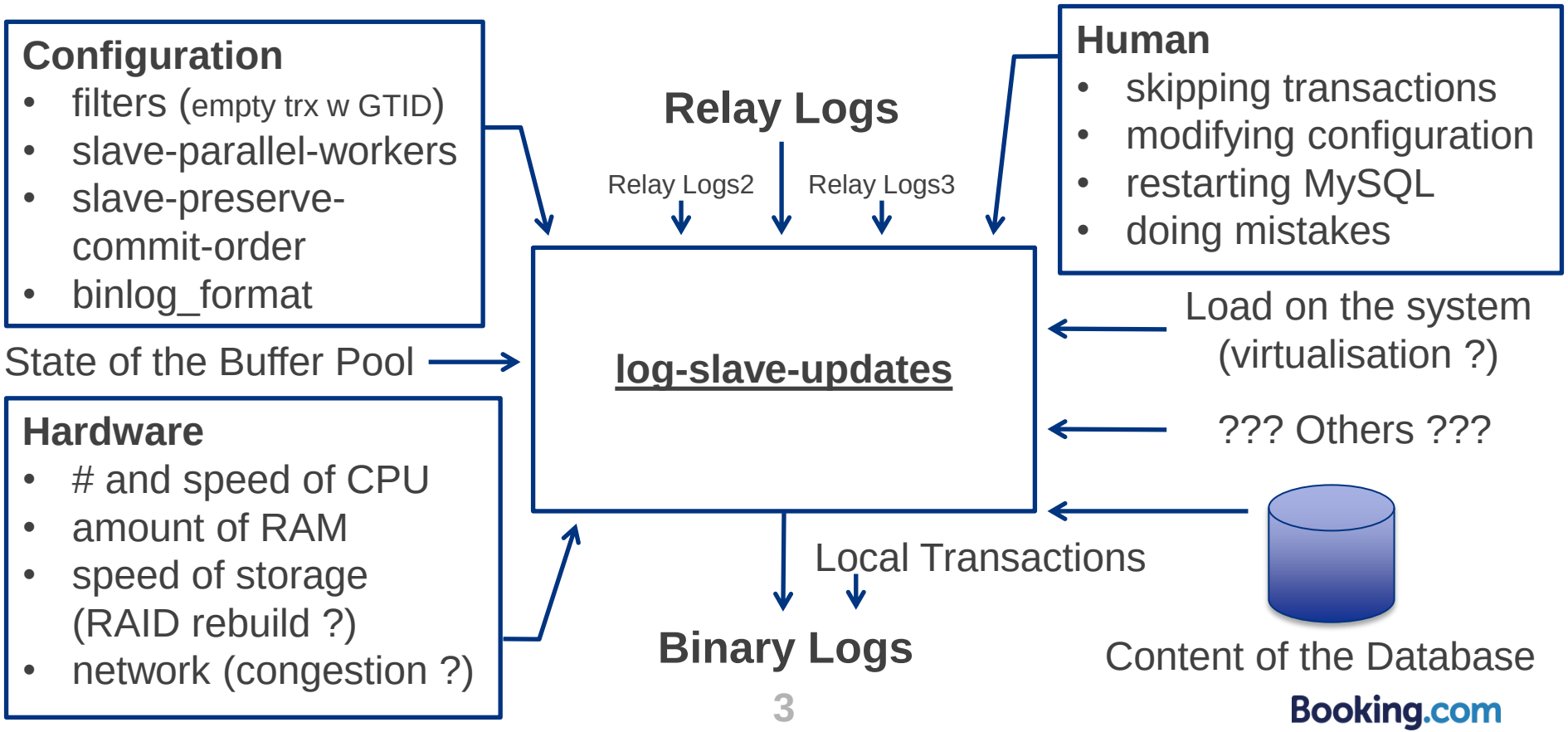
Presented at Percona Live Santa Clara 2015

Remember High School Math ?

- Function ($f(x) = y$) ?
- A deterministic result from a known input
- $f(x) = 2x$, $f(x) = x^2$, $f(x) = \sin(x)$, …
- $f(a_1, a_2, a_3, a_4, \ldots, a_n) = y$
- Pseudo random functions
- Chaos Theory: weather prediction (butterfly effect)

The Binary Log Function on Slaves



Would you build a high availability solution on the output of such a complex function ?

GTID + log-slave-updates
→ very complex high availability

Complex things break in complex ways

Is there Better ?

- Yes: the Binlog Server
- A very simple concept

The Binary Log Function on Slaves (without log-slave-updates)

Much more simple, isn’t it ?

And the best thing about it:
because it is not running on many slaves
duplicated unreliable output does not happen.

Local Transactions

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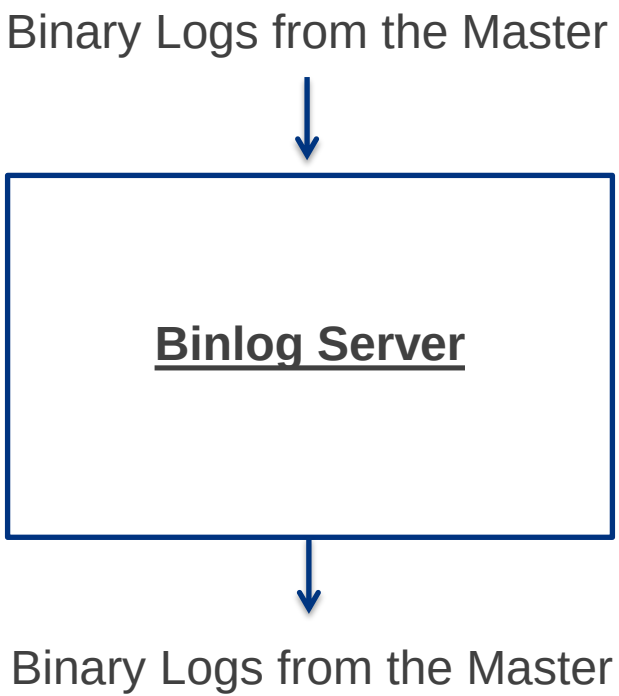
Binary Logs

And The Binlog Server Function



There is Better

- The Binlog Server
- A very simple concept
- A good starting point for High Availability
- http://jfg-mysql.blogspot.com/

Thank you

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