



MariaDB and the evolving open source database market

Patrik Sallner, CEO, SkySQL

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SkySQL in brief

SkySQL is a global provider of open source databases

SkySQL and its roots in MySQL

- MySQL is the world's most popular open source database
- MySQL was acquired by Sun Microsystems in 2008 (nowadays at Oracle)
- SkySQL was founded in 2010 by the same team that is behind MySQL

SkySQL and MariaDB

- MariaDB is the emerging standard in open source SQL databases
- SkySQL is the key commercial player behind MariaDB and a founding member of the MariaDB Foundation



What is MariaDB?

- GPLv2 MySQL branch + community development
- Feature enhanced
- Compatible & feature complete with MySQL
- Drop-in replacement



Why MariaDB?

- MySQL owned by Oracle; MariaDB backed by MariaDB Foundation
- MySQL ecosystem development is at its most vibrant now
- Provide community, storage engine vendors options for shipping & distribution



Global Top 20 sites

1. Google
2. Facebook
3. YouTube
4. Yahoo!
5. Baidu
6. Wikipedia
7. QQ
8. Taobao
9. Twitter
10. Live
11. LinkedIn
12. Sina
13. Amazon
14. hao123.com
15. google.co.in
16. blogspot
17. weibo.com
18. wordpress.com
19. 360.cn
20. yandex.ru



Who's behind MariaDB?

- Many original MySQL developers
- Spearheaded by Michael “Monty” Widenius, creator of MySQL
- Many community contributors (high ratio of external to SkySQL contributors)
 - Large internet players
 - Individual contributors



MariaDB Timeline

- This is our **fourth** birthday
- First release: February 1 2010 (MariaDB 5.1)
- MariaDB 5.1, 5.2, 5.3, 5.5, 5.5+TokuDB, 5.5 Galera Cluster
- In development: 10.0 Galera Cluster



MariaDB 10.0 Highlights

- March 31 2014 - stable (GA) release
- MySQL Enterprise features provided as open source:
 - PAM Authentication plugin
 - Threadpool
 - Audit Plugin



10.0 Highlights (not in MySQL)

- Virtual columns
- PCRE regular expressions
- DELETE ... RETURNING
- GIS
- Dynamic columns
- Roles
- Full-text search via SphinxSE
- Query Cassandra
- "CONNECT" for ETL operations (CSV, XML, ODBC)
- TokuDB with fractal tree indexes - compression!



Contributions from Google Summer of Code

- 2013 - Three great MariaDB contributors
 - PCRE Regular Expressions - Sudheera Palihakkara (Sri Lanka)
 - SQL Roles - Vicentiu Ciorbaru (Bucharest, Romania)
 - Kerberos Authentication Plugin - Qui Shuang (Shanghai, China)
- 2014 – confirmed participation with 4 contributors!



MariaDB is adopted by leading Linux distros and Internet players

Community Linux Distributions



Leading Internet Players





Google

- Migration on-going to MariaDB 10.0
- Google funded parallel replication feature
- Now defining next joint development
- Feature requests and roadmap alignment
- Lots of QA/testing in public lists like maria-developers



Wikipedia

- Wikipedia, WikiData service migrated from MySQL 5.1 to MariaDB 5.5
- Why? Optimizer enhancements, XtraDB, Foundation backed, bugs fixed responsively
- Query times: 56ms to 43ms; average 15.4ms to 12.7ms. **4-15% faster Wikipedia!**



Tumblr

- Tumblr - sold to Yahoo! for over \$1 billion
- Growth
 - 2012: 60 billion relational rows, 21TB
 - 2013: 229,208,178,189 billion rows, 54TB
- Jetpants - tool to provide re-sharding of databases; scale writes, eliminate SPoF
- merging shards, MariaDB is the aggregator node thanks to **multi-source replication**



KakaoTalk

- Sped up messaging system by more than 5x
- Using Fusion-io + MariaDB extensions for speed improvements
- Over 130 million users worldwide, powered by MariaDB 5.5



SkySQL tackles key customer challenges

- Reduce complexity and risk in choice of NoSQL and SQL
- Access data in multiple different databases and data formats
- High availability and reliability
- Performance with big data
- Scalability and elasticity in the cloud
- Avoid vendor lock-in
- Shortage of skilled database administrators

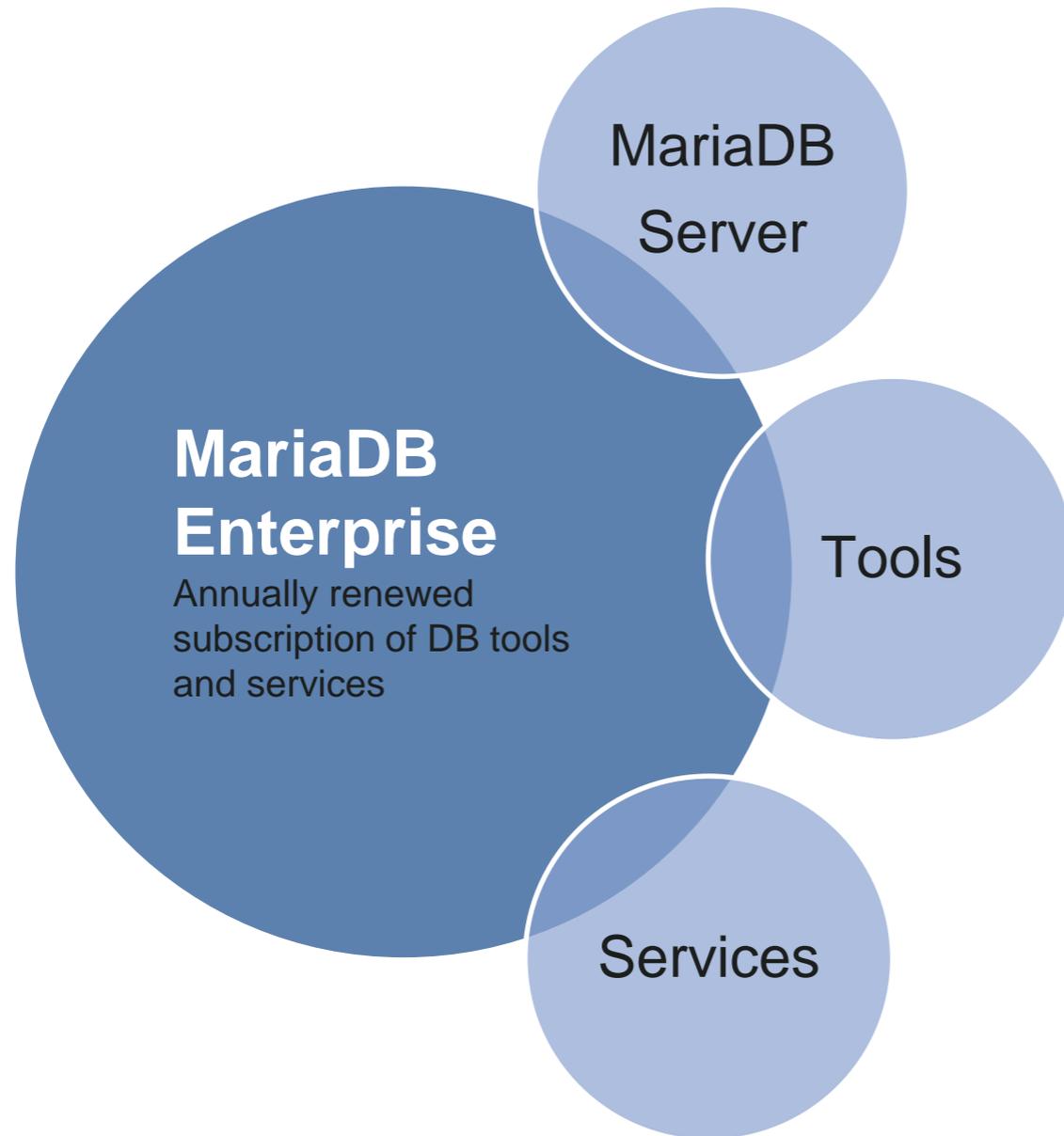


MariaDB aims to become the leading database platform for cloud

- MariaDB has the leading technology
 - Compatible with MySQL
 - Superior replication and scalability for Cloud
 - Address NoSQL and Big Data needs
- Strongest team of core MySQL experts
- Powerful distribution and customer base
 - MariaDB adopted by Linux distros and key SaaS players
 - Over 400 enterprise customers



MariaDB Enterprise is the solution for demanding enterprise users



MariaDB software

- Hardened binaries of MariaDB Server
- Security updates, bug fixes
- Roadmap and documentation
- Customer portal

Tools

- Monitor, manage, backup
- High availability
- Cloud deployment

Services

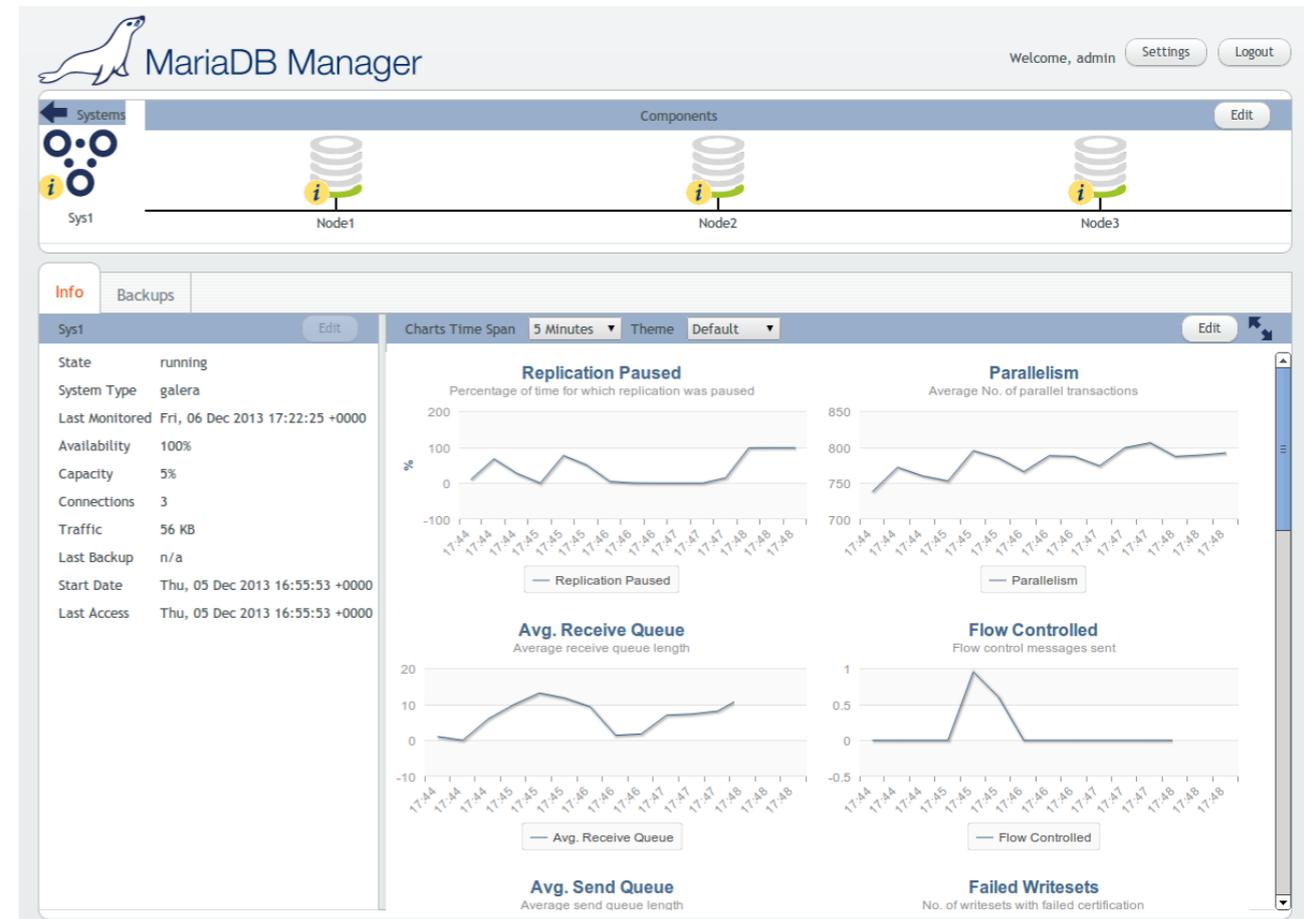
- Operations support
- Developer support
- Consulting, training, remote DBA





MariaDB Enterprise Cluster: HA Simplified

- Subscription-based superset of MariaDB Galera Cluster.
- Includes:
 - Database cluster software
 - MariaDB Manager V1:
 - RESTful API
 - Monitoring
 - GUI
 - Provisioning/Operations agent
 - Support: 24x7, unlimited incidents, updates and maintenance
- Manages/monitors MySQL & Galera, Percona XtraDB also, but only provisions MariaDB Galera Cluster



A few clicks and a few minutes to a high availability MariaDB Galera Cluster.



SkySQL is building on a strong enterprise customer base

More than 400 enterprise customers in 30 countries in 3 years





Where to get MariaDB

- Download on: <http://mariadb.org/>
- Your Linux distribution - shipping in many, default in some
- Knowledge base: <https://mariadb.com/kb/en/>
- Try MariaDB Enterprise:
<http://mariadb.com/products/mariadb-enterprise>



감사합니다.

www.skysql.com

CEO patrik.sallner@skysql.com

국내 총판 KOLON BENIT

MariaDB 고객센터

[e\) mariaDB@kolon.com/](mailto:mariaDB@kolon.com) t) 02-2120-7113

www.facebook.com/skysql

www.linkedin.com/company/skysql