



MariaDB and the evolving open source database market

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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

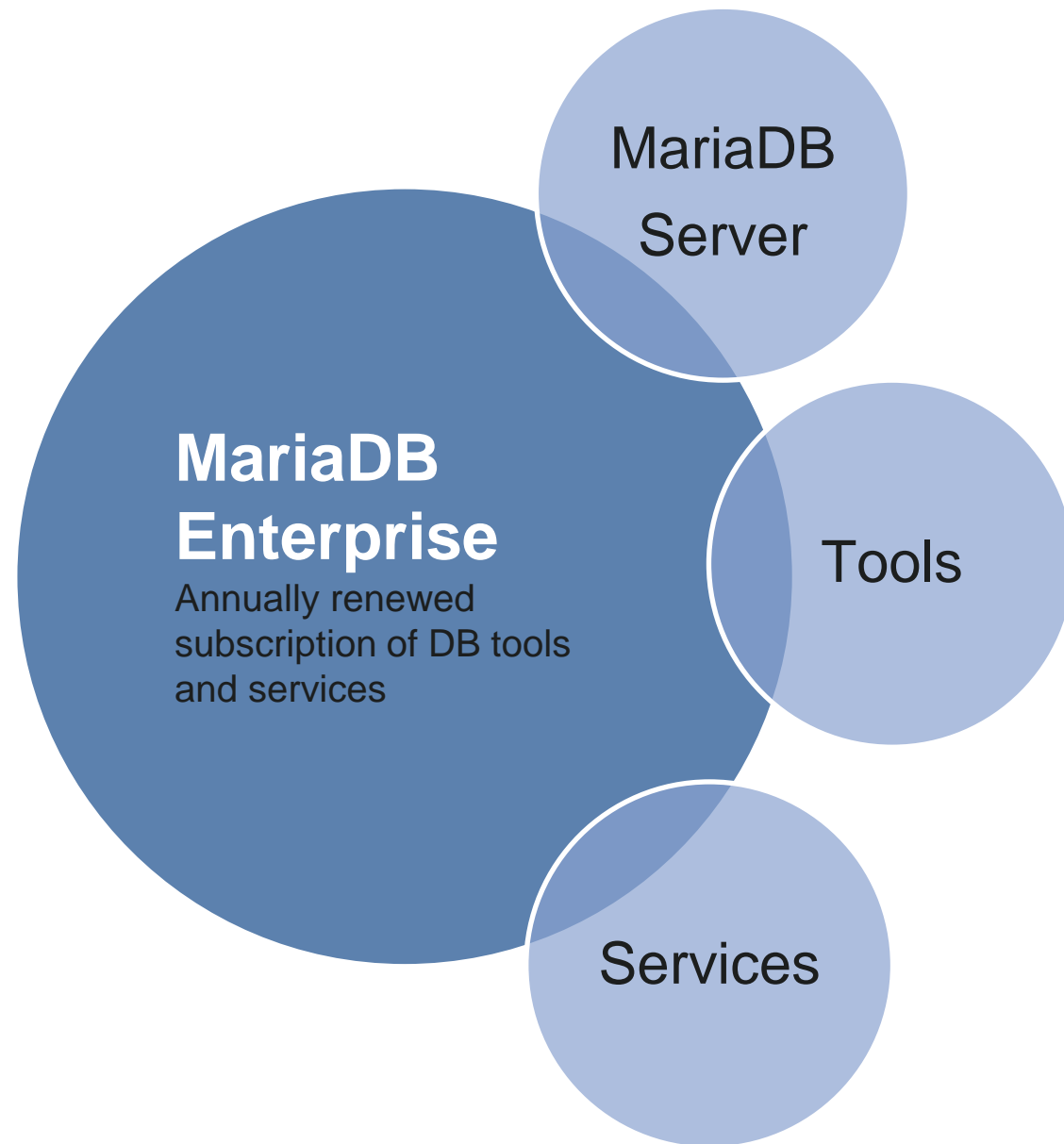


MariaDB aims to become the leading database platform for cloud

- 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

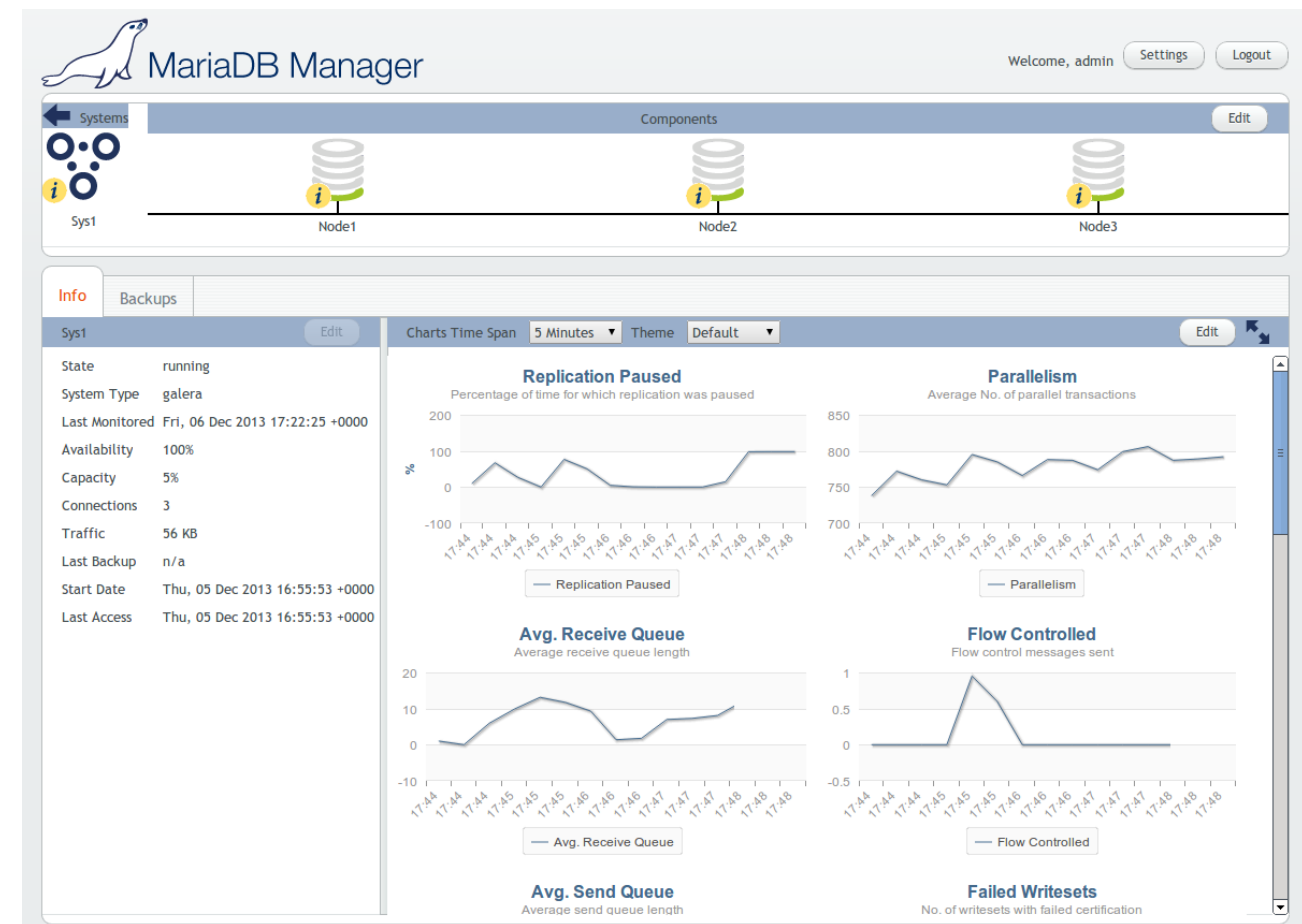
- Operations support
- Developer support
- Consulting, training, remote DBA





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



craigslist



vodafone



amadeus
Your technology partner



Cartier



REUTERS



FINANCIAL
TIMES





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.

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