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Database Weekly

Issue 124 — September 30, 2016

FEATURED

How Uber Manages 1M Writes/Second Using Mesos and Cassandra — Uber needs to store location data sent out every 30 seconds by both driver and rider apps and it's built a custom solution on top of Cassandra and Mesos to cope.

HIGH SCALABILITY

GraphQL: Designing a Data Language — GraphQL is a static-strong-typed data query language and runtime designed and used at Facebook. This talk introduces it, its impact on architecture at Facebook, and how it was developed. *39 minutes*.

LEE BYRON **VIDEO**

Embracing the Red Bar: Safely Refactoring Tests — Do you ever refactor your test code? Corgibytes' M. Scott Ford explores a technique for protecting against the possibility of turning a perfectly valid test into one that always passes, regardless of whether or not the code that it covers is correct.

CORGIBYTES **SPONSORED**



Sleepless Nights with MongoDB WiredTiger and Our Return to MMAPv1 — A tale of how a behavioral analytics platform upgraded to Mongo's WiredTiger storage engine but had a bad experience.

FRANCIS PEREIRA

Using R to Detect Fraud At 1 Million Transactions Per Second — In Joseph Sirosh's keynote at the Data Science Summit, Wee Hyong Took demonstrated using R in SQL Server 2016 to detect fraud in real-time credit card transactions at a rate of 1 million transactions per second.

REVOLUTION ANALYTICS

PostgreSQL 9.6 Released — The next key release of Postgres. Key features include parallel queries, faster autovacuum, phrase searching in full-text search, and many performance improvements. [Release notes here](#).

POSTGRESQL

The Major Features in Postgres 9.6 [PDF] — Straightforward, simple slides with the basics on 9.6's new features.

BRUCE MOMJIAN

Data Engineers in Hot Demand — Once it was all about 'data scientists' but now 'data engineers', engineers who excel at working with and storing data at a large scale, are in heavy demand.

DATANAM

JOBS

[Stop wasting time - know what you'll earn before the interview](#) — On Hired, sign up in 10 minutes and get offers from top companies like GitHub, Uber, & Stripe. Engineers get an average of 5 offers on the platform in 1 week

HIRED.COM

IN BRIEF

[Blockchain Database Startup BigchainDB Raises €3 Million](#) — The company aims to turn traditional databases into blockchains.

COINDESK **NEWS**

[MapR Embraces Microservices in Big Data Platform](#)

DATANAM **NEWS**

[Survey: Spark Going 'Mainstream'](#)

DATANAM **NEWS**

[Previewing Autopilot: A New Elasticsearch Cloud Orchestration Tool](#)

SIDDHARTH KOTHARI **NEWS**

[Introducing the DreamFactory Cassandra Service](#) — Easily connect to a Cassandra db with the same RESTful API already in use with other NoSQL databases in DreamFactory.

DREAMFACTORY **NEWS** **SPONSORED**

[Global Historical Daily Weather Data Now Available in BigQuery](#) — Weather data from over 80,000 stations in 180 countries, spans several decades and has been quality-checked.

GOOGLE CLOUD PLATFORM **NEWS**

[Apache Cassandra 2.2.8 Released](#) — This version is a bug fix release of the 2.2 series. You can [grab it here](#).

MICHAEL SHULER **NEWS**

[Using the Neo4j Graph Database with a .NET Client](#)

THE NEW STACK

[A Data Model for Listing Apartments and Other Rental Units](#)

VERTABELO

['Google' Your Own Brain: Create a CMS with Neo4j and Elasticsearch](#)

JOHN DAVID MARTIN

[Why Your Next Project Deserves an Open Source Multi Model Database](#)

YOUTUBE **VIDEO**

[Zero to Hero Data Pipeline - From MongoDB to Cassandra](#) — Migrating a data pipeline to Apache Cassandra in a short period without having any prior knowledge and doing all of the computation with Apache Spark. *Just over and hour long.*

DEM BEN ARI **VIDEO**

[Elixir ETS Versus Redis](#) — Redis is becoming an assumed part of many web stacks, in the same breath as your database. But with Elixir, do you need it? Do you even need a database?

BARRY JONES

[When to Choose SQL and When to Choose NoSQL](#) — When should NoSQL storage systems be evaluated as an alternative to RDBMS?

JOQQ

[MariaDB CTO: NoSQL Database Bubble to Burst Soon](#) — “Defining climate for NoSQL companies is not that good, it continues to be bad, and it tends to go uglier.”

DATA ECONOMY

[4 'Noob' MySQL Mistakes Every Programmer Makes](#)

BRIAN WHEELER

[Code, Manage, Collaborate](#) — Start a free trial of Bitbucket Server and get this amazing t-shirt :)

BITBUCKET [TOOLS](#) [SPONSORED](#)

[mTools: A Must-Have Toolkit for MongoDB](#) — Six tools in one, including a log reader, log filter, and random data generator.

RÉMY JARDINET [TOOLS](#)

[Introducing neo4j-etl, The Newest RDBMS-to-Neo4j ETL Tool](#)

NEO4J [TOOLS](#)

[Barman 2.0 Released: A Backup Manager for Postgres](#)

GABRIELE BARTOLINI [TOOLS](#)

[sparklyr: An R interface for Apache Spark](#)

RSTUDIO [CODE](#)

[UpscaleDB-MySQL: A MySQL Storage Engine Based on UpscaleDB](#) — UpscaleDB is an embedded key/value database with fast analytical functions.

CHRISTOPH RUPP [CODE](#)

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