DB Weekly

Database Weekly

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FEATURED

Learn Redis The Hard Way (in Production) — How a popular hotel comparison site uses Redis heavily in production, including where things didn't work as expected.
TRIVAGO

Scuba: Diving into Data at Facebook [PDF] — A paper describing a commonly used system at Facebook for doing live, real-time analysis on terabytes of data. Related Hacker News discussion.
FACEBOOK

Peloton: The Self-Driving Database Management System — An in-memory, DRAM/NVM optimized, relational database management system designed with autonomous operation and optimization in mind.
CARNEGIE MELLON UNIVERSITY DATABASE GROUP `TOOLS`

[eBook] The Essential Guide to Queuing Theory — Queueing theory rules everything around you - Whether you're an entrepreneur, engineer, or manager, queueing theory is one of the best ways to boost performance. This 30-page ebook demystifies the subject without requiring pages full of equations.
VIVIDCORTEX `SPONSORED`

JanusGraph: An Open-Source, Distributed Graph Database — A highly scalable transactional graph database optimized for storing and querying large graphs with billions of vertices and edges distributed across a multi-machine cluster.
JANUSGRAPH `TOOLS`

The Probability of Data Loss in Large Clusters — Many distributed storage systems (e.g. Cassandra, Riak, HDFS, MongoDB,) can use replication to make data durable, but how does this affect the odds of data loss?
MARTIN KLEPPMANN

1.1 Billion Taxi Rides on kdb+/q & 4 Xeon Phi CPUs — Q is a programming language with a built-in, column-oriented, in-memory and on-disk database called kdb+ that includes and extends SQL. Here's a practical look at using it.
MARK LITWINTSCHIK

The Internals of PostgreSQL — Suzuki Hironobu covers the internals of PostgreSQL for database administrators and system developers in this helpful translation of his 2012 Japanese-language book.
SUZUKI HIRONOBU

GryadkaJS: A Paxos-Based Replicated Key/Value Layer On Top of Redis — Gryadka is a minimalistic Paxos-based master-master replicated consistent key/value layer on top of multiple instances of Redis.

DENIS RYSTSOV `TOOLS`

MySQL and Snap Packaging — A look at using 'snaps' (a new way of packaging apps for distribution on Linux) to distribute MySQL.
YNGVE SVENDSEN

IN BRIEF

[JanusGraph Picks Up Where TitanDB Left Off](#) — JanusGraph is a new Linux Foundation project formed to continue development of the TitanDB graph database.

ALEX WOODIE `NEWS`

[InfluxDB 1.2 Released](#) — ..with subqueries and 50% better write throughput on larger hardware.

PAUL DIX `NEWS`

[PostgreSQL Compatibility for Amazon Aurora Now Available (in Preview)](#)

AMAZON WEB SERVICES `NEWS`

[Put your DB into overdrive on Linode's SSD servers.](#) — Whatever your preferred DB, get better performance by loading it on Linode. Use promo code `DB20` for $20 credit.

LINODE `SPONSORED`

[Execute Millions of SQL Statements in Milliseconds in the Browser with WebAssembly and Web Workers](#)

MIKE PARSONS

[Providing Least Privileged Data Access in MongoDB](#) — Read-only views (ROV) are a similar concept to table views found in relational databases.

MONGODB

[Secure MongoDB and Protect Yourself from the Ransom Hack](#) — Advice on how to protect yourself from MongoDB ransomware.

SEVERALNINES

[Achieving 100,000,000 Database Inserts Per Second using Accumulo and D4M [PDF]](#)

KEPNER, ARCAND, ET AL.

[Running Production PostgreSQL Systems on ARM Architecture](#) — A whitepaper exploring if PostgreSQL on ARM is a viable option for your next project.

KAAREL MOPPEL

[Designing the UFC Moneyball using multiple databases](#) — Gigi Sayfan from VRVIU shows us how analytics for sports can be done using Cassandra/Scylla, MySQL, and Redis.

COMPOSE `SPONSORED`

[A Curated Guide to the Best Tools and Resources for Data Visualization](#)

DATAVIZ.TOOLS `TOOLS`

[HikariCP: A Solid High-performance JDBC Connection Pool](#) — Can support 10,000 simultaneous users.

BRETT WOOLDRIDGE `CODE`

[Drizzle: Fast and Adaptable Stream Processing at Scale [PDF]](#)

VENKATARAMAN, PANDA, ET AL.

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