Building data applications with Apache Druid

October 2020

Gian Merlino, Cofounder & CTO, Imply



Who am !?



Gian Merlino





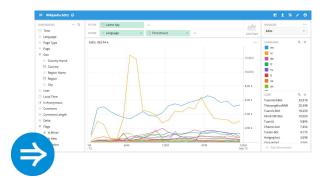


Cofounder at imply (we're hiring!)



Druid powers data apps









Druid in the wild



f 🔍

How Netflix uses Druid for Real-time Insights to Ensure a High-Quality Experience



By Ben Sykes

100+ billion rows/day1+ trillion rows, 1+ year retained100s of serverssub-second to few seconds query latencymix of streaming and batch ingest

Interactive Analytics at MoPub: Querying Terabytes of Data in Seconds

By Aaron Rolett and Shravana Krishnamurthy
Wednesday, 3 July 2019 * f in &

How Druid enables analytics at Airbnb

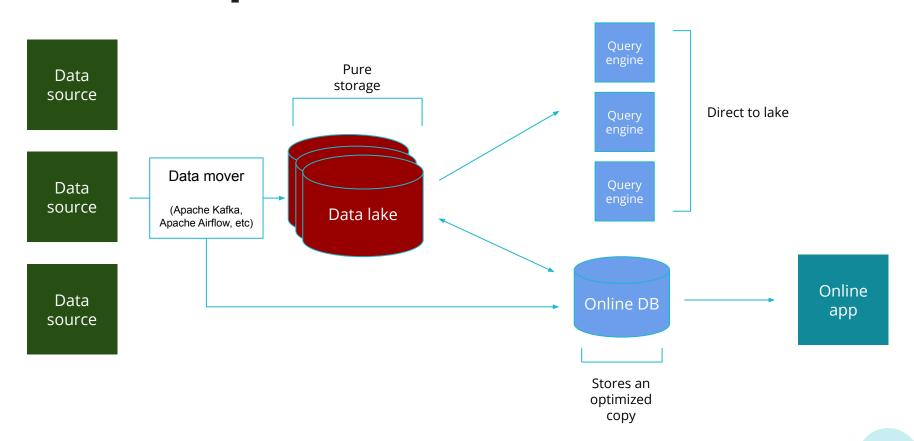
Realtime and batch analytics at Airbnb and the role Druid plays in our analytics system architecture



By Pala Muthiah and Jinyang Li

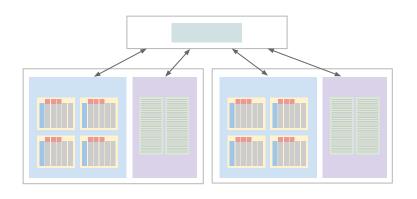
Online DB pattern





Druid as an online DB





- Scale-out, fault-tolerant architecture
- No downtime for software updates
- No downtime for data management
- Heavily optimized storage format
- Integrated storage format and query engine

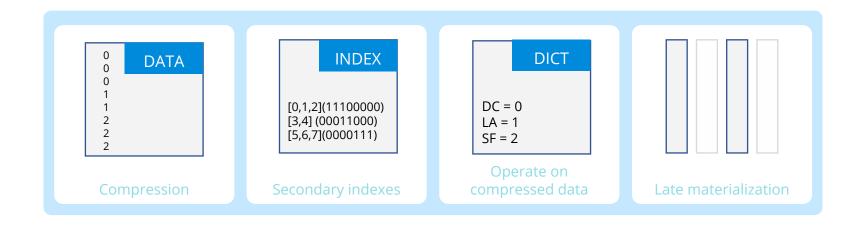
Data apps



- Interactive query speeds
- Always online
- Fresh data from streams
- Quality of service
- Price/performance

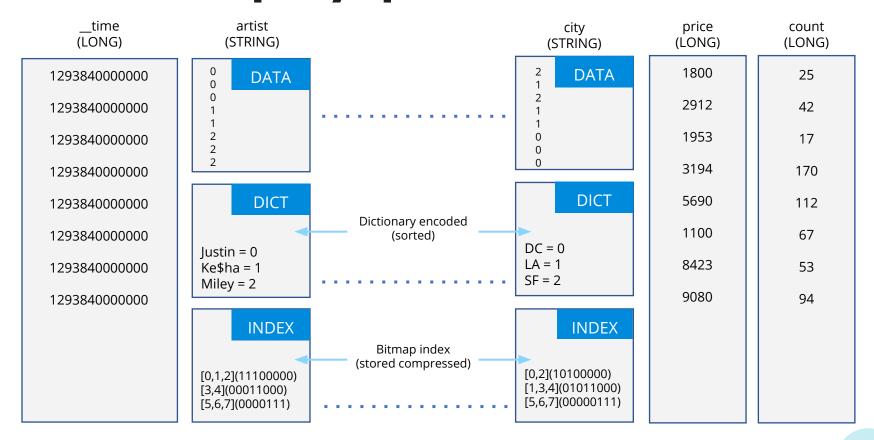
Interactive query speeds



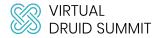


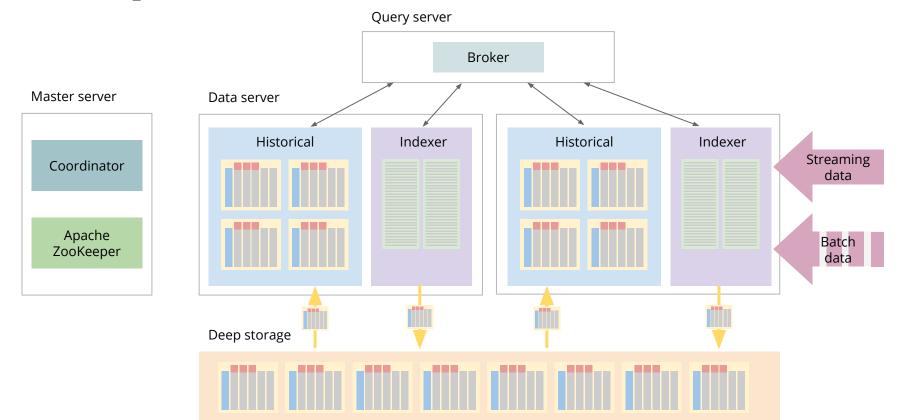
Interactive query speeds





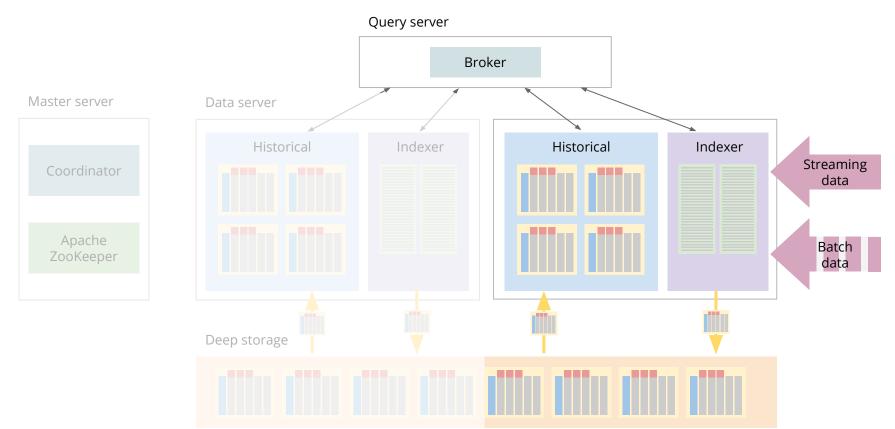
Always online





Fresh data from streams





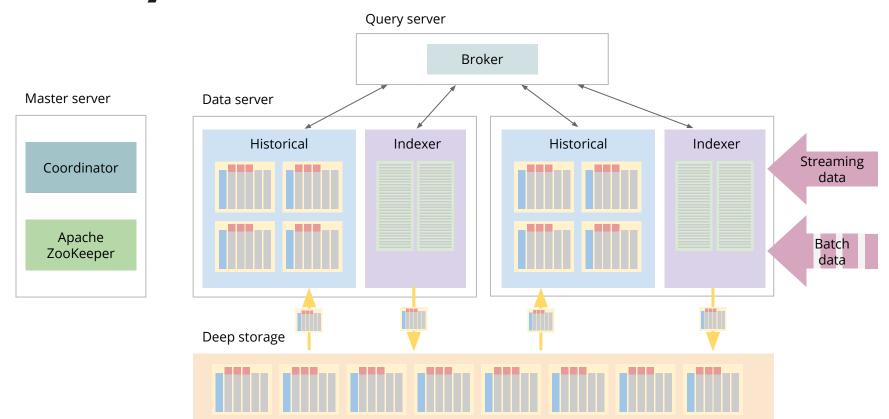
Quality of service





Quality of service

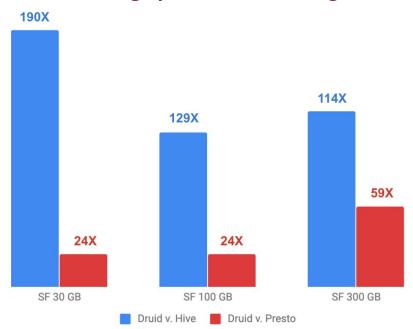




Price/performance



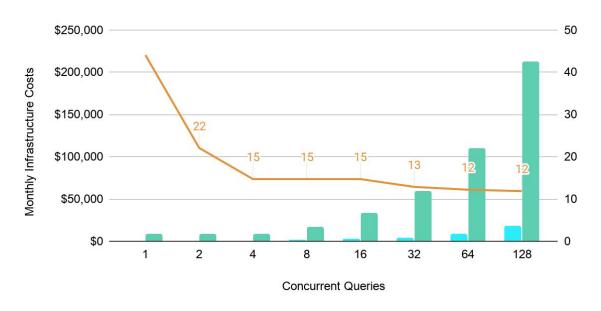
vs. leading open source SQL engines



Price/performance



vs. a leading cloud-based data warehouse





Stay in touch



Follow the Druid project on Twitter!



@druidio

Join the community (Mailing lists, Slack, meetups) https://druid.apache.org/community/

Thank you!

Time for questions

@gianmerlino

