

Real-Time, Real Results Powering Modern Applications of the Future

George Kuruvilla

Director, Business Development

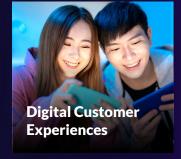
Modern Applications are data intensive

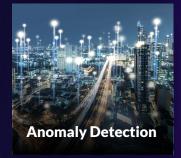
- Access to real-time data
- Deliver fast and highly interactive customer experiences
- Scale effortlessly
- Run anywhere
- Data Intensive











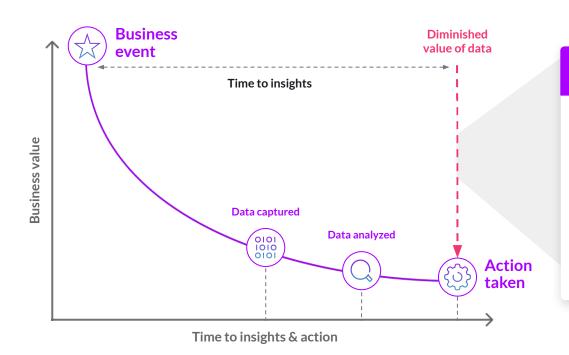






Diminishing Value of Data - Why Real-Time?





Minimize Time-to-insights & action

Use Case Examples

- Algorithmic Trading: 0.2-1 millisecond
- Fraud Analytics: Under 1 second
- Predictive Maintenance: 2 20 seconds
- eCommerce offer: 5 -30 seconds
- Real-Time Geolocation offers: 1 5 minutes



























fathom/



FOODICS









hulu

IBM

SingleStore is the real-time distributed SQL database to power data intensive applications



iex cloud













paloalto®













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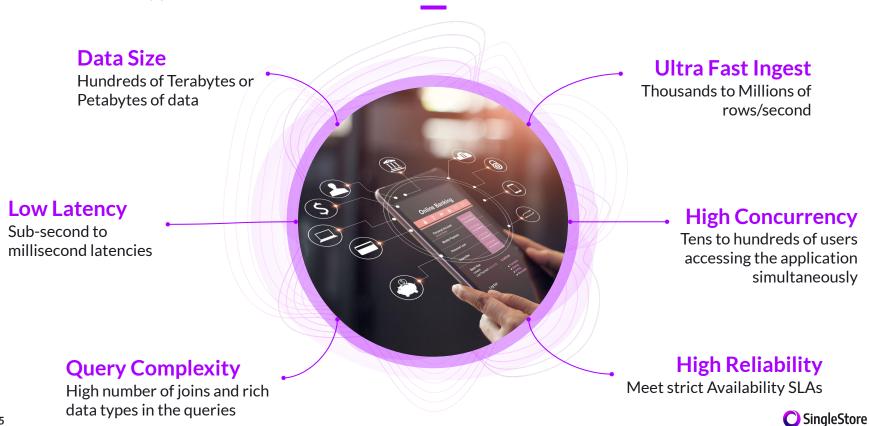
Uber



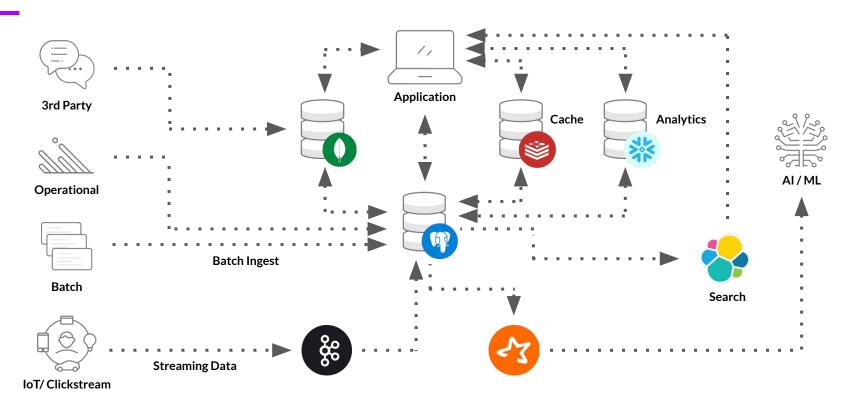


What are Data-Intensive Applications?

Applications that need a combination of some or all of these six attributes



The Old Way

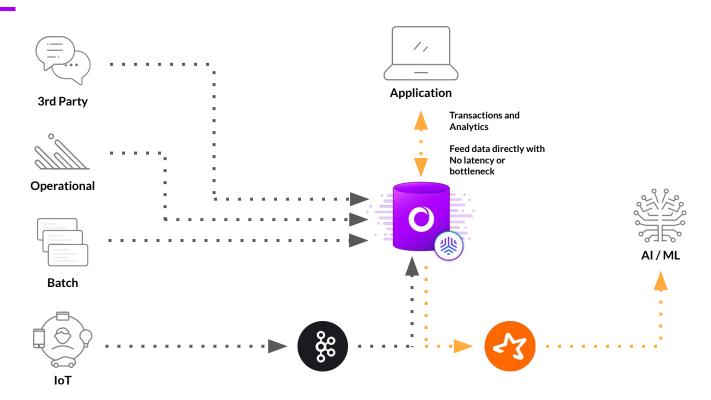


The Old Way — Outcomes

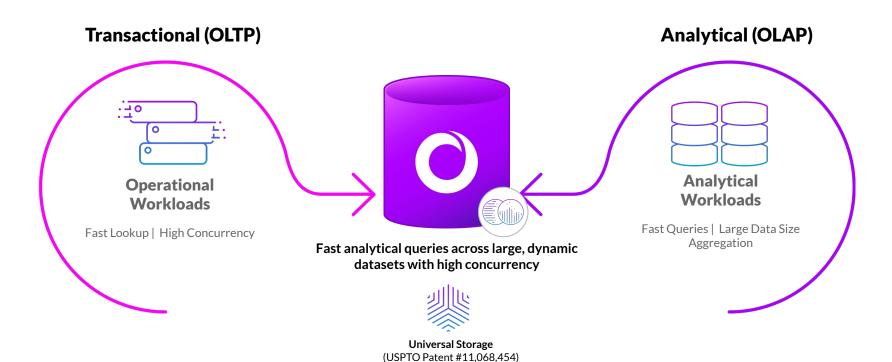




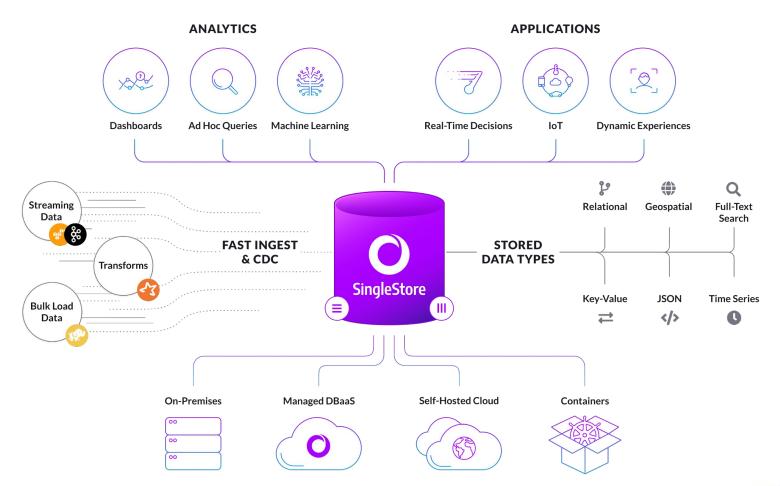
The Modern Way



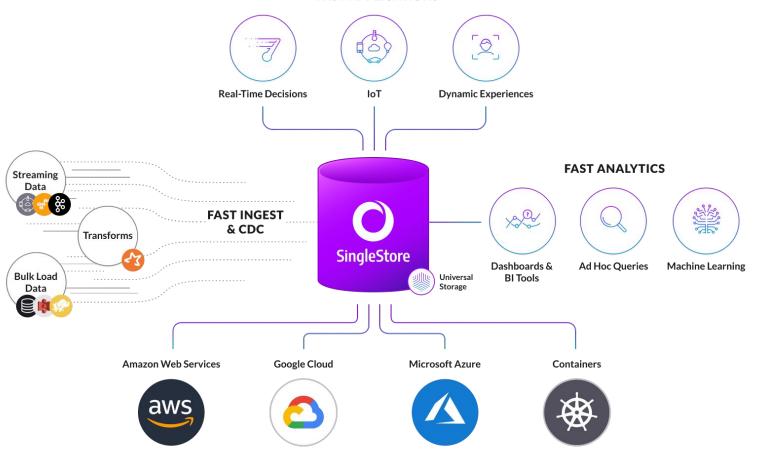
SingleStoreDB Unifies & Simplifies Your Data Stack





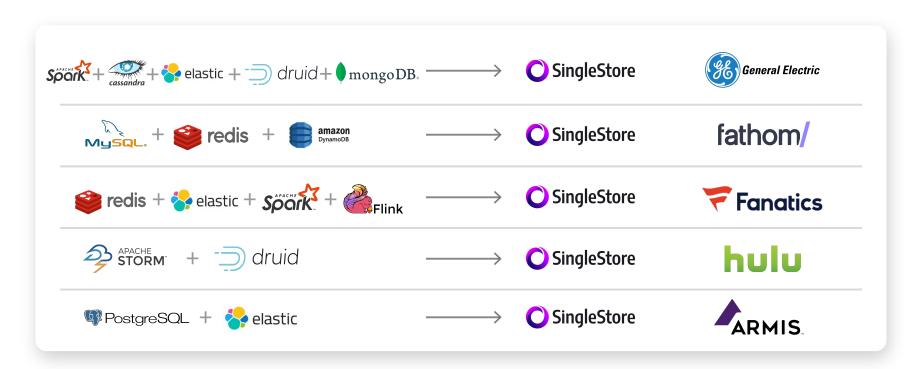


FAST APPLICATIONS





A Single Database For Your Data Complexity







Transactions + Analytics

World's Fastest Real-Time Distributed SQL Database

- Unified: Transactions + Analytics
- The only database with a single, **unified table type** for both Transactions & Analytics
- Streaming Ingestion & Analytics
 Ultra-fast ingestion with non-blocking low-latency analytics on data as it lands
- World's only fast operational database with separation of storage and compute
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- World's only database that delivers best-in-class performance on TPC-C. TPC-H and TPC-DS



Universal Storage

Old: Two Table Types

(Most RDBMS do this)



Rowstore

- Great transactional workloads
- Not great for analytics



Columnstore

- Great for analytics
- Can't do many transactional workloads

New: Universal Storage

(Single Table Type for Transactions & Analytics)



Capabilities

- Support fast inserts/ updates/ deletes/ upserts (OLTP)
- Complex real-time analytics (OLAP)
- Support integrity constraints

Benefits

- Extreme performance (better CX)
- Simplifies data architecture
- Reduced data movement, data duplication and costs



Extremely Versatile with Multi-model capabilities



Relational

Standard SQL plus ability to join across the multi-model schema



Time-Series

Native date, time, and timestamp types with built-in functions, e.g. time_bucket



Unstructured, Full-Text Search

Built-in, native inverted indexing



Key-Value

Scan > 30B tuple space and return trillions of key-value results in < 1 second



GeoSpatial

Polygons, points, lines and built-in spatial functions



JSON/ Document

JSON as native type for schema-on-write and schema-on-read



SingleStoreDB // Best-in-Class Price-Performance

100-1000x Performance Boost

Faster Insights Now!

Drive up to 20-100x* performance improvements compared to Gen-1 single node databases



Up to 60% Lower Costs & Complexity

Eliminate the need for Multiple Data Engines

Multi-model database with scale out HTAP so that you can get rid of speciality data engines



Real-Time Operational Analytics

Bring Real-Time Data Experience to your Apps

Distributed SQL database with transactions and analytics in the same engine with no data movement





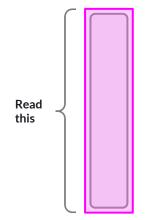
Up to

400x faster seeks for JSON columns

Real-time analytics for structured and semi-structured data

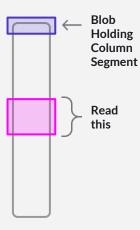
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Seeks directly access needed data within segment (in Universal Storage)





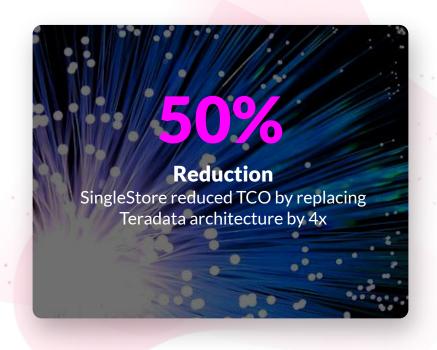
Is this real?



CASE STUDY

Global Telco Enabler

Driving revenue with customer logistics data and leveraging in-memory for faster access to data





Global Telecommunications Enabler

Challenges

Legacy Data warehouse: Existing legacy data warehouse was rigid, slow and very expensive to scale for new use cases. Workflows were running in 1.5 hours

Slow Dashboards: Existing dashboards were slow and taking hours to process data.

Visualization: BI tool for visualization was slow due to the underlying database

Technical Requirements

Fast Database: Reduce overall time for processing data from hours to seconds.

Modern Use Cases: Support Real Time use cases

Existing Workflows: Database should be able to continue to use the existing workflows.

Scalable: The solution must support a moving time window of undetermined duration while also handling historical data for further analysis.

Cost: Reduce the overall TCO

SingleStore Results

SingleStore was able to replace Teradata and support TCL for below:

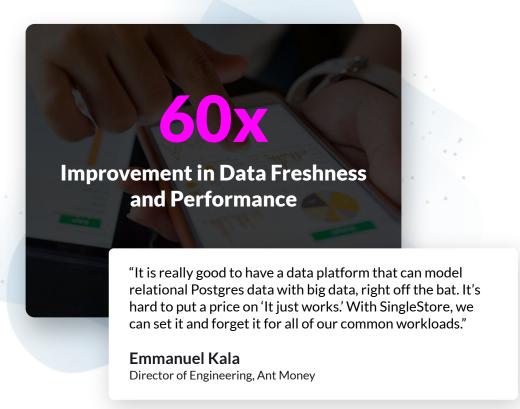
- **-4X faster** than Teradata in data Ingestion and Query performance
- +50% improvement in TCO
- -Real time Data Refresh for Analytics Application
- -Reduce Database Sprawl
- -New Real Time Use cases to be built





CASE STUDY

Ant Money





Boost performance and reduce TCO



Challenges

Use Case: Power their real-time Fintech (embedded finance) platform

Challenges: The platform previously powered by Amazon RDS & Quicksight was painfully slow, with queries taking seconds to minutes to process.

No streaming data ingest or real-time analytical capabilities

No coverage for emergent data sources

Technical Requirements

Low Latency Analytics: Near real-time analytics with fast reads and quick ingestion even with large datasets

Data Types: Needed support for unstructured data types including clickstream data within apps that were embedded in the Ant Money SDK.

Scale: Scalability to support Ant Money's accelerated growth trajectory

SingleStore Results

SingleStoreDB powers the Ant Money platform providing near real-time analytics on large data sets.

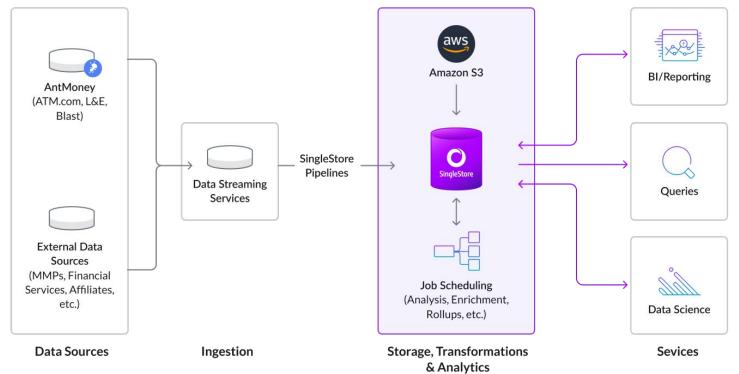
With SingleStore, Ant money is able to:

- Improve data freshness by 60x by getting data in minutes vs hours
- Utilize 50X more data for insights
- 10X reduction in TCO



Architecture with SingleStoreDB





Impacts and Results



60x

Improvement in data freshness & performance

Truly Data-Driven

Fresh for all

50x

Increase in usable data that is driving insights

Simplified Architecture

Priceless

10x

Lower TCO

Infinite Scalability

Workload & Tooling

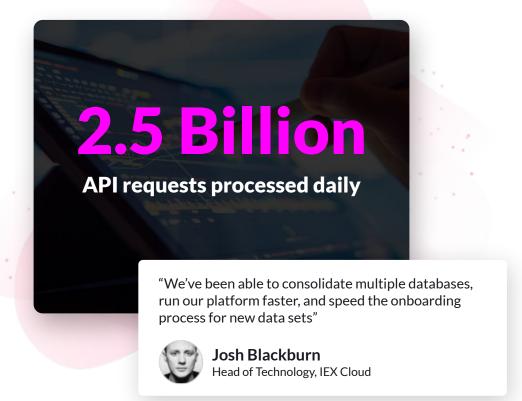




CASE STUDY

IEX Cloud

Financial data infrastructure platform that connects developers and financial data creators





Powering the API backend with SingleStore



Challenges

Use Case: Create a vibrant data ecosystem with best-in-class data for developers and the investor community.

IEX Cloud needed one database that could handle low latency reads and writes, real-time analytics, historical and real-time queries, and scale for a large user base.

Challenges: Clickhouse wasn't able to support millions of small reads for its 150K user base; it outgrew MySQL for performance and functionality.

Technical Requirements

Streaming ingestion: Fast data ingest with massive read and write speeds

Effortless Scaling: Support for fast ETL operations for hundreds of data sets per day, scaling up to thousands long-term

Low Latency Analytics: Near real-time analytics and evaluate thousands of data points per second.

Storing and serving real-time and historical data at the same time.

SingleStore Results

SingleStoreDB provided IEX Cloud many business benefits including:

- Scale to 800K events per second processing over 2.5 billion API requests daily
- 10-15X Speed Improvement for ETL processes
- Meet sub-second SLAs for their 150K customers
- Best-in-class financial data with 200+ financial data sets and plans



CASE STUDY

Major SG Bank

Financial Analytics Dashboard that needed to run complex queries in real-time







Major Singapore Bank

Challenges

Use Case: Finance Dashboard

Challenges:

- Slow Tableau Dashboards > 60sec
- Extract mechanism takes too much time for processing
- Have to create several aggregated layers to optimize query processing
- Latency required <5 secs
- Ability to process complex joins

Technical Requirements

Large Dataset: Fast data ingest with massive read and write speeds supports;

- Large Datasets
- Complex join
- High Concurrency
- Speed of Ingestion and processing
- Run Ad-Hoc queries
- Minimal aggregations
- Speed up Tableau dashboards

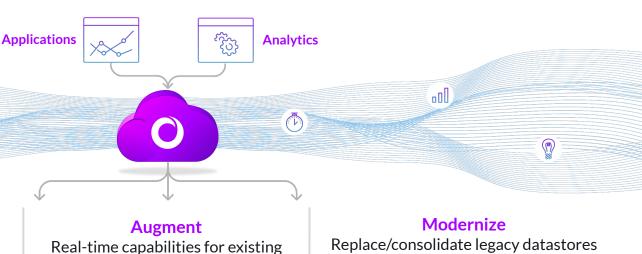
SingleStore Results

SingleStoreDB provided the bank with the ability to;

- Managed 6TB of data
- Live Connect Tableau Dashboard
- Low Latency Queries:
 - o Earlier 60 ces
 - Now <5 secs



Adopting SingleStore



Build

Next gen DB for modern apps Transactions + Analytics









database investments

















simplifying data architecture

















Adopting SingleStore



Build

Build new modern applications

Net new apps or operational analytics workloads













Augment

Augment DBs or Analytical DWs

Augment legacy and speciality OLTP/ OLAP engines, or Hadoop

















Modernize

Consolidate and Replace

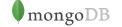
Modernize by consolidating/replacing legacy datastores, speciality databases, or Hadoop

































IN 4 CATEGORIES



10 out of 10

"I've never in my life worked on such a fast database"



"10X faster than MySQL-

Postgres-Oracle at 1/4 the cost"

"Best SQL distributed database available in 2022"



"I don't think you can beat SingleStore. It's a 'Ferrari' of a DB"

LeadRoll

★★★★★ 5.0

"Best decision you will ever make"

★★★★★ 5.0

"Best in its category"

Saudi Telecom StC

 $\star \star \star \star \star \star$

10 out of 10

"SingleStore is the fastest database ever tested by us"

SIEMENS



"Outstanding data platform"

Customers Love SingleStore



SingleStore recognized as a 'Strong Performer' by Forrester

Translytical: Next-generation data platforms built on a single database engine to support multiple data types and data models

SingleStore a 'Strong Performer' among "15 providers that matter most"

The Forrester report notes: "SingleStore's strengths lie in transaction processing and the breadth of use cases."

"Overall extremely satisfied — we finally feel like we have a vendor who deeply cares about the problems we face, is willing and able to solve these problems quickly."

- SingleStore reference customer, Forrester report

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Call to Action/Pick One



Book a speed test Trial Run today

SingleStore's benchmark field test kit gauges application speed using your data, in your environment. Sign up to meet with a solutions architect via the QR code and we will send you our SingleStore Starter kit to get you started!





Try SingleStoreDB Cloud for free today

Get SingleStoreDB's best-in-class speed, scale, and agility without the headaches of installing, configuring, and maintaining software.





























fathom/













hulu



How Data Intensive are Your Applications?

Take Free 3-Minute Assessment



































Uber





SingleStore

Thank You

_

Demo



...And They Are Powering Digital Experiences





Real-Time APIs



Mobile Apps

Digital **Experiences**

Drive real-time customer experiences

Eliminate digital customer experience degradation



FastApps



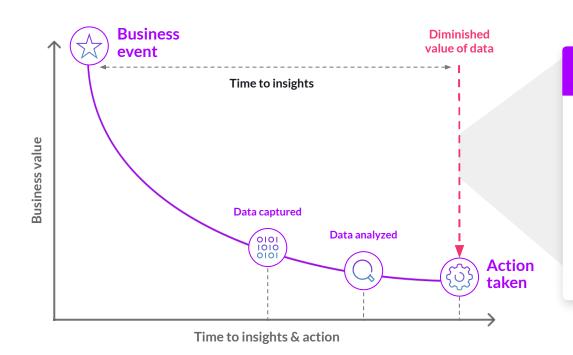
Fastboards



Won't-Wait Customer Experiences



Why Real-Time? - Diminishing value of Data



Minimize Time-to-insights & action

Examples

- Algorithmic Trading: 0.2-1 millisecond
- Fraud Analytics: Under 1 second
- Predictive Maintenance: 2 20 seconds
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What Is Needed For Real-Time Applications to power these experiences?



Modern Applications Need a Combination of Operational and Analytical Capabilities

TransactionalDB (OLTP)

- Fast Record Lookups
- Streaming Ingest
- Fast Writes
- High Concurrency
- High Availability
- High Resiliency
- Extensibility



AnalyticDB (OLAP)

- Blazing Fast Queries
- Fast Reads
- Aggregations
- Large Data Size
- Large Data Load
- Resource Governance



SingleStore - Growth & Momentum

FINANCIAL STRENGTH

CUSTOMER & REVENUE

COMMUNITY

EMPLOYEES

\$308M

Raised in the last 20 months alone

209%

YoY Cloud Customer growth

1M+

Downloads of free production SingleStoreDB

400+

Employees in 9 countries
Growing at 24% YoY

Fiscal '22 ending February 2022















"Best SQL distributed database available in 2022"

April 5, 2022



"I don't think you can beat SingleStore. It's a 'Ferrari' of a DB" June 13, 2022

June 13, 2022



"SingleStore - the only database you will ever need"

June 23, 2021



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"SingleStore is the fastest database ever tested by us"

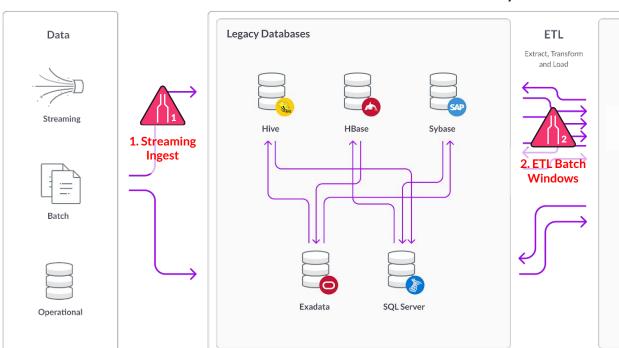
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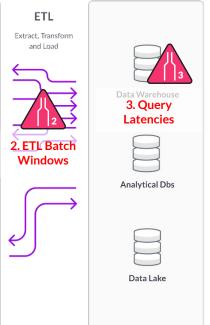
August 18, 2021

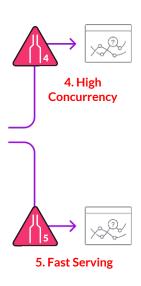


Key Challenges With Legacy Architectures

Conventional Batch Analytics











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Universal Storage

Old: Two Table Types

(Most RDBMS do this)



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Capabilities

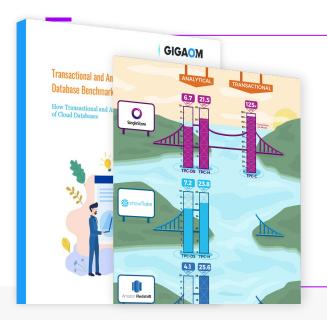
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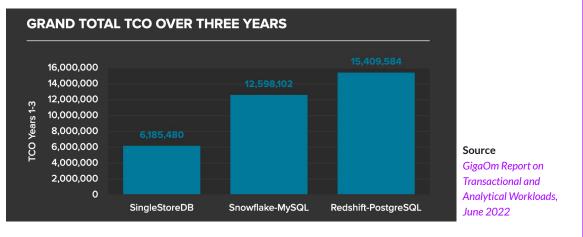
Benefits

- Extreme performance (better CX)
- Simplifies data architecture
- Reduced data movement, data duplication and costs



Best in Class Price-Performance





50% Savings

over three years compared to **Snowflake-MySQL** stack

GigaOm Benchmark Study

60% Savings

over three years compared to **Redshift-PostgreSQL** stack

Up to 100% Faster

in TPC-H workloads compared to **Redshift** (with Refresh)

Three-Tiered Architecture

In-Memory Rowstore (OLTP)

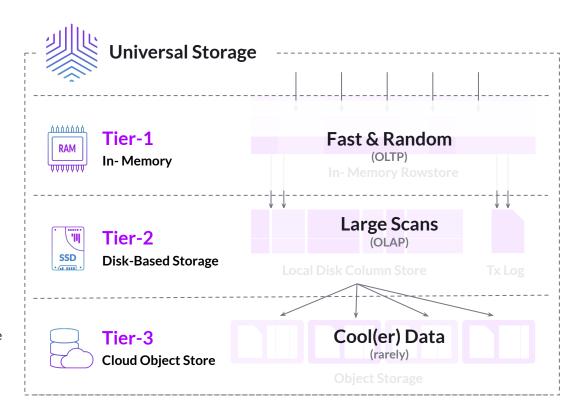
- Extremely fast random reads & writes
- Row lookups in sub-milliseconds

On Disk Columnstore (OLAP)

- Scalable storage with high compression
- Not impacted by slow data entry vs other Columnstore DBs
- Data is available immediately for fast complex analytical queries

Object Storage (Durability)

- Unlimited Storage capacity for bulk data storage
- Up to 90% compression in Object Storage
- All data is asynchronously written to object storage





Extremely Versatile with Multi-model capabilities



Relational

Standard SQL plus ability to join across the multi-model schema



Time-Series

Native date, time, and timestamp types with built-in functions, e.g. time_bucket



Unstructured, Full-Text Search

Built-in, native inverted indexing



Key-Value

Scan > 30B tuple space and return trillions of key-value results in < 1 second



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SingleStoreDB // Best-in-Class Price-Performance

100-1000x Performance Boost

Faster Insights Now!

Drive up to 20-100x* performance improvements compared to Gen-1 single node databases



Up to 60% Lower Costs & Complexity

Eliminate the need for Multiple Data Engines

Multi-model database with scale out HTAP so that you can get rid of speciality data engines



Real-Time Operational Analytics

Bring Real-Time Data Experience to your Apps

Distributed SQL database with transactions and analytics in the same engine with no data movement





Multi-model Support // Customers





Relational



Unstructured, Full-Text Search



GeoSpatial



Time-Series



Key-Value



Semi-Structured, JSON



High performance **geospatial queries** and **time series** aggregates with standard SQL



"Queries that would time out completely under **ElasticSearch** are now processing in less than 10 seconds with SingleStore"



Consolidated three data engines (MySQL, Redis, & Clickhouse) into SingleStoreDB



"We are now all-in on SingleStoreDB Cloud, which has allowed us to **drop** Redis, DynamoDB and MySQL"



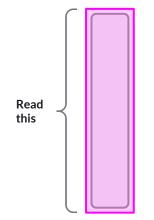
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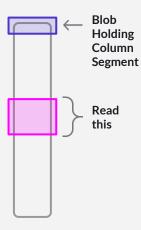
Previous

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Now

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Powering Modern Applications + Analytics

Customer Applications

Real-Time Applications

Analytics with SLAs

Fast Dashboards



Financial Services



Telecom



Technology



Media and Streaming



Energy and Utilities

- Portfolio Management
- Wealth Management
- Fraud Analytics
- Risk Management
- Algorithmic Trading
- Crypto Exchanges

- _____
- 5G/ IoT Analytics
- Real-time Customer Experience
- Network Telemetry
- Geolocation Analytics
- Field Support Optimization

- Leading SaaS applications
- Improved CX for Internet Services
- Supply Chain Analytics
- Machine Learning Pipelines & Platforms
- Dashboards & APIs

- Ad Optimization
 & Ad Serving
- Streaming Media Quality Analytics
- Real-time recommendations
- Video Game
- Telemetry Processing

- IoT & Smart Meter Analytics
- Predictive Maintenance
- Geospatial Tracking
- & Calculations
- Dashboards & APIs





Uber

Real-time insights with massive concurrency for marketing and analytics



Real-time wealth management application for high net-worth investors

COMCAST

Streaming analytics to drive proactive care and real-time recommendations



IoT Analytics ingesting and analyzing data from over 1.2 Million smart meters



13x data growth moving from batch to near-real time visibility and analytics

Customer Stories

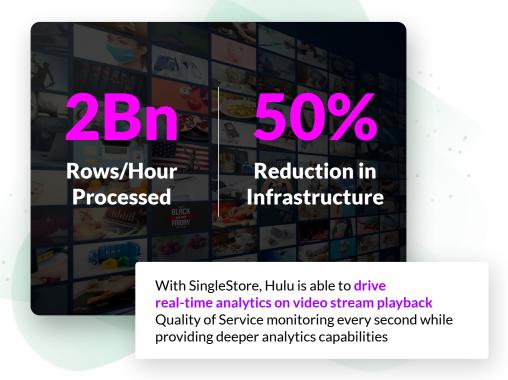




CASE STUDY

Hulu

Real-time ingest of telemetry data and timely access for analytics





Quality of Service Analytics



Challenges

High Management Costs: Massive hardware footprint that is costly to manage & maintain.

Poor User Experience: Frequent outages impacted development and degraded user experience.

Unable to Sustain Performance:Reached a point of diminishing returns.

Technical Requirements

Operations: Simplify architecture and ease maintenance burden. Increase stability of platform.

Analytics: Increase analytics capability to provide greater value to business.

Scale: Maintain performance at scale.

100TB

Of data processed everyday to power real-time Video QoS

SingleStore Results

50%(+) overall reduction in infrastructure

Streamlined data processing pipeline using SingleStore Pipelines.

Migrated one of the largest instances of Druid in the world

Hulu is now able to ingest and process over 2Bn rows/ hour or 100 TB of data every day to drive ultra-fast insights

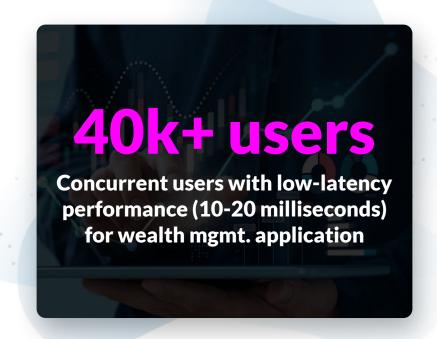




CASE STUDY

Tier 1 Wealth Mgmt Firm

Leading global investment banking, securities and investment management firm





Real-Time Wealth Management



Challenges

Use Case: Provide fast and interactive experiences on portfolio dashboards to high net-worth investors.

Pain Points: No real-time insights.

Legacy data architecture based on Hadoop was constrained by batch ETL processes which had latencies built in

Lagging performance with 40,000 users accessing the application/dashboards simultaneously

Solution

Replaced/augmented legacy infrastructure with SingleStoreDB to power its wealth management platform

SingleStore as the fast layer with Hadoop/HDFS as a data lake for long-term data storage.

20msResponse Time

40K Concurrent users

SingleStore Results

Fast Responsiveness
Streaming ingest with instant query responses in under 10-20 milliseconds, with no latencies

Performance
40,000+ users supported with no
contention, even when market events
cause spikes in usage

Five years' history instead of one 5x the data for deeper analysis

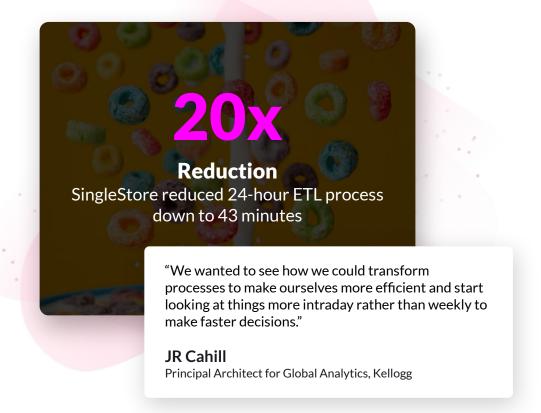




CASE STUDY

Kellogg's

Driving revenue with customer logistics data and leveraging in-memory for faster access to data



Delivering Profitability Analytics for Supply Chain



Challenges

Slow Event-to-Insight: Batch ingest prevented daily profitability analysis

Slow Dashboards: Slow interactive queries prohibited insights and deeper discovery

Technical Requirements

Real-Time Ingest: Move from batch ETL to real-time ingest from supply chain apps

Fast SQL: Database must accelerate and work natively with Tableau platform

SingleStore Results

Profitability analysis of customer logistic data transformed from weekly to daily

30x faster ingest dropped data loading from 22 hours to 43 minutes

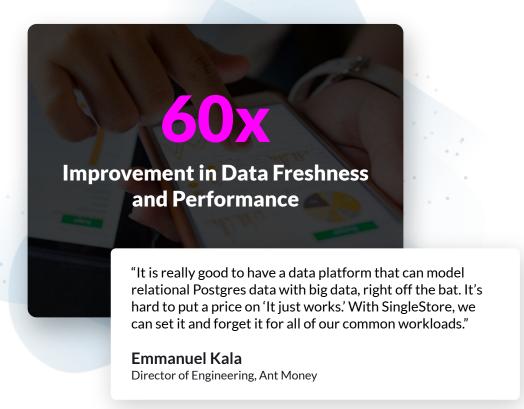
80x faster Tableau dashboards over prior solution





CASE STUDY

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Boost performance and reduce TCO



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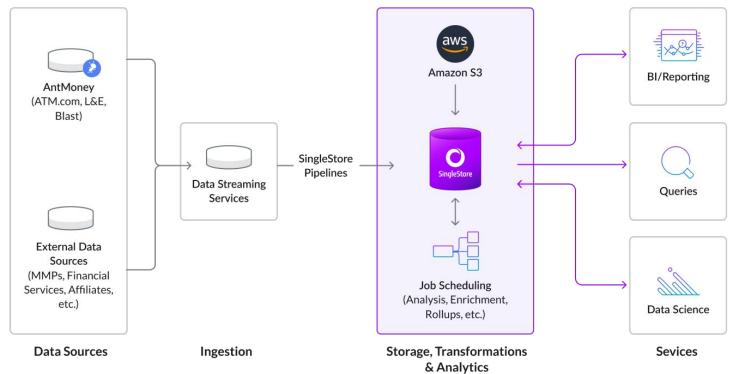
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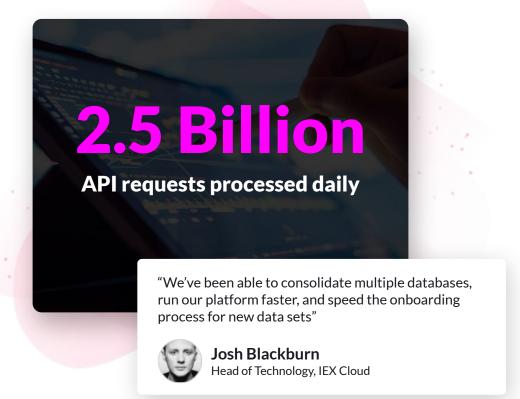




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Challenges

Use Case: Create a vibrant data ecosystem with best-in-class data for developers and the investor community.

IEX Cloud needed one database that could handle low latency reads and writes, real-time analytics, historical and real-time queries, and scale for a large user base.

Challenges: Clickhouse wasn't able to support millions of small reads for its 150K user base; it outgrew MySQL for performance and functionality.

Technical Requirements

Streaming ingestion: Fast data ingest with massive read and write speeds

Effortless Scaling: Support for fast ETL operations for hundreds of data sets per day, scaling up to thousands long-term

Low Latency Analytics: Near real-time analytics and evaluate thousands of data points per second.

Storing and serving real-time and historical data at the same time.

SingleStore Results

SingleStoreDB provided IEX Cloud many business benefits including:

- Scale to 800K events per second processing over 2.5 billion API requests daily
- 10-15X Speed Improvement for ETL processes
- Meet sub-second SLAs for their 150K customers
- Best-in-class financial data with 200+ financial data sets and plans





"On the swipe" credit card fraud detection

50ms Fraud Detection

70+

Sophisticated fraud detection queries evaluated on each transaction





TIER 1 BANK

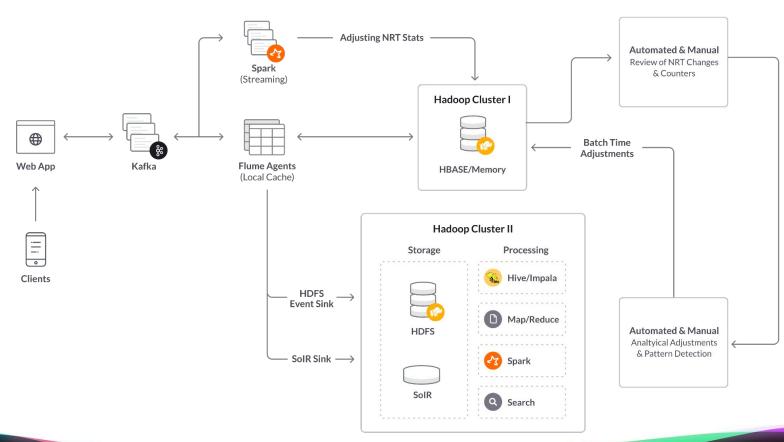
40M in Cost Savings

Through mainframe offload

Case Study



AI/ML Driven Real-Time Fraud Analytics



AI/ML Driven Real-Time Fraud Analytics



Complex Performance



Limited SQL



Multiple points of failure

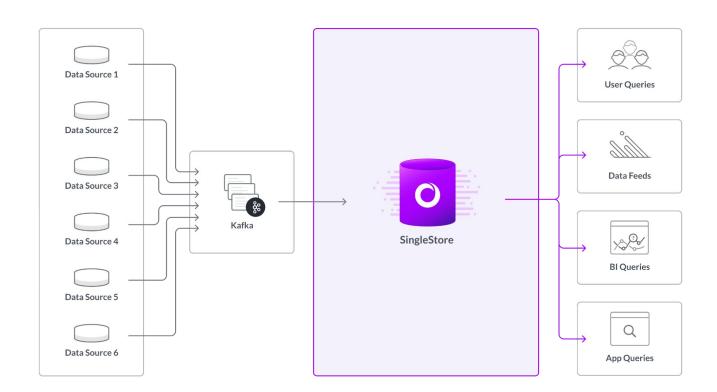


Multiple data silos



AI/ML Driven Real-Time Fraud Analytics

- Faster
- Easy to scale
- Familiar SQL
- Extensible Pipelines for ML
- Simplified



SingleStore

Demo



Adopting SingleStore



Build

Build new modern applications

Net new apps or operational analytics workloads













Augment

Augment DBs or Analytical DWs

Augment legacy and speciality OLTP/ OLAP engines, or Hadoop

















Modernize

Consolidate and Replace

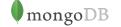
Modernize by consolidating/replacing legacy datastores, speciality databases, or Hadoop

































IN 4 CATEGORIES



10 out of 10

"I've never in my life worked on such a fast database"



"10X faster than MySQL-Postgres-Oracle at 1/4 the cost"



"I don't think you can beat SingleStore. It's a 'Ferrari' of a DB"





"Best in its category"

Saudi Telecom StC



10 out of 10

"Best SQL distributed database available in 2022"



"Best decision you will ever make"

SIEMENS

 $\star/\star/\star/\star/\star$

"SingleStore is the fastest database ever tested by us"



"Outstanding data platform"

Customers Love SingleStore



SingleStore recognized as a 'Strong Performer' by Forrester

Translytical: Next-generation data platforms built on a single database engine to support multiple data types and data models

SingleStore a 'Strong Performer' among "15 providers that matter most"

The Forrester report notes: "SingleStore's strengths lie in transaction processing and the breadth of use cases."

"Overall extremely satisfied — we finally feel like we have a vendor who deeply cares about the problems we face, is willing and able to solve these problems quickly."

- SingleStore reference customer, Forrester report

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fathom/













hulu



How Data Intensive are Your Applications?

Take Free 3-Minute Assessment





































Uber





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\$500 in Free Credits Today





SingleStore

Thank You