

SNOWFLAKE DATA CLOUD DEMO

Unite Your Siloed Data. Access a World of Data.

ID 2023 Encodate Inc. Al Wagter Newsrows

Meet today's presenters



David Kincaid Senior Sales Engineer Snowflake



Joseph Wu Senior Sales Engineer Snowflake

Details

- The webinar will be shared with the participants within the next couple of days.
- If you have any questions, please use the Q&A functionality and provide adequate context.
 - If you have any audio issue, refresh your browser.
- Let's get started ...

Innovation Journey to the Data Cloud All Data Single Engine V Governed **Globally Connected** V Self-Managed V

- ✓ Programmable
- Marketplace & Monetization

and reliably.

Fast For Any Workload

Run virtually any number

or type of job across users

and data volumes quickly

Replace manual with automated to operate at scale, optimize costs, and minimize downtime.

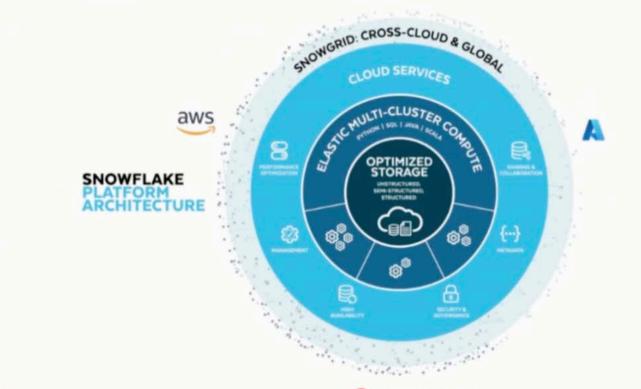
It Just Works

Connected to What Matters

Extend access and collaboration across teams, workloads, clouds, and data, seamlessly and securely.

Modern Platform Requirements







Optimized Storage



Unsiloed access to your data

Unstructured, semi-structured, and structured data together with near-infinite scale.

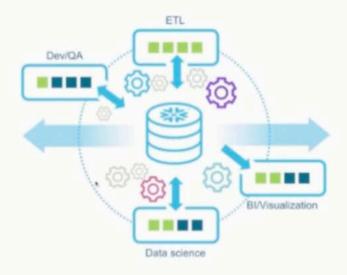
Easily manage data at scale

Fast and efficient access, optimized compression, and secure data - all automated.

Flexibility & interoperability

Work with data on-premises* or in open table formats* to remove lock-in and adapt to new data patterns.

Elastic Multi-Cluster Compute



One engine for every workload

Simplify your architecture. Power complex pipelines, analytics, data science, interactive applications, and more.

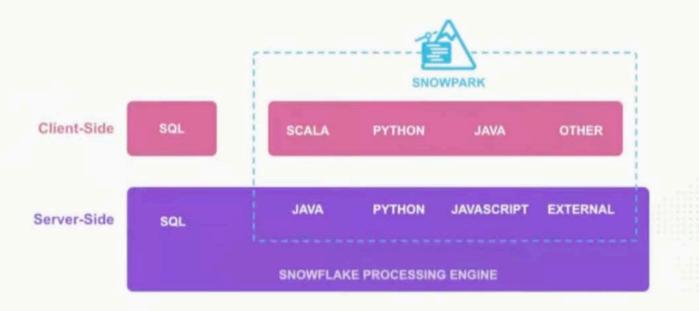
Leading performance and concurrency

Fast, reliable performance for virtually all users and jobs with no tuning or contention.

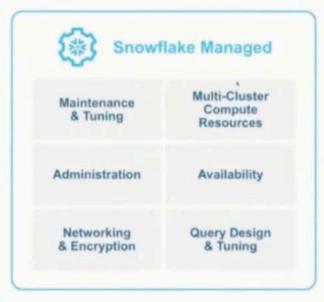
Accessible & programmable

Work in SQL, Python, or Java, and run your preferred tools and libraries directly with Snowpark - without moving data.

Code the Same Way, Execute Faster With Snowpark



Cloud Services



Self-managed

Automate encryption, access controls, availability, tuning, maintenance, and more to keep operations simple and smooth.

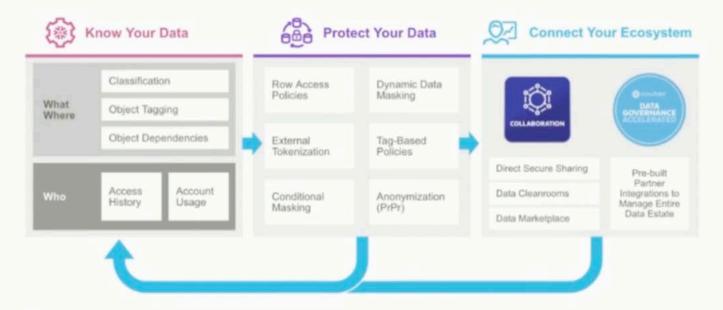
Transparent improvements

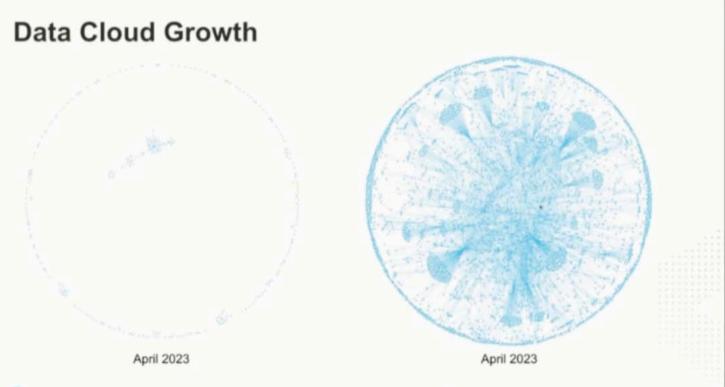
Continually benefit from the latest performance enhancements and economics - no action required.

Optimized resources & costs

Only pay for what you used and get full visibility and cost governance controls to right-size costs.

Unified Governance





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* Visualization based on actual Data Cloud sharing activity as of April 30, 2023 and April 30, 2023 respectively.





Powering Many Workloads



Discover, access and monetize live data, services and apps in the Data Cloud



Build simple, reliable data pipelines at scale in the language of your choice



Protect your enterprise with near-unlimited visibility, unified data, and powerful analytics



Accelerate your ML workflow with fast access and elastically scalable processing



Build data-intensive applications without operational burden



Accelerate analytics for users and queries with leading price / performance and no complexity



Deploy flexible architectural patterns with governance and optimized storage at scale



Delivers a modern approach to working with transactional and analytical data together

Live Demo



WHO IS TASTY BYTES?

ABOUT US: Global food truck network, localized menu options, 15 countries, 30 major cities, and 15 core brands.

OUR MISSION

We serve to give people unique food options with high quality items in a safe, convenient and cost effective way. We ensure that the ingredients used are of the highest quality from mostly local food vendors to make sure our success has a positive impact on community partners.



OUR VISION

To become the largest food truck network in the world by 2027 that has sustainable profitability with a zero carbon footprint future that our team, customers, and communities are proud of supporting.



frestbyte.

LOCATIONS SERVED

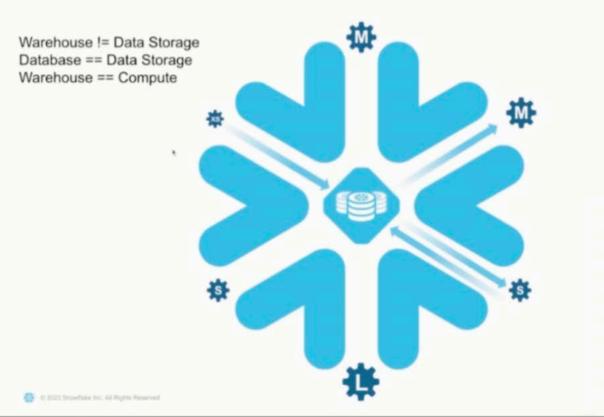
- USA: San Mateo, Denver, Seattle, Boston, New York City
- · Canada: Toronto, Vancouver, Montreal
- United Kingdom: London, Manchester
- · France: Paris, Nice
- · Poland: Warsaw, Krakow
- · India: Mumbai, Delhi
- Japan: Tokyo
- · South Korea: Seoul
- · Australia: Sydney, Melbourne

CURRENT STATE & FUTURE GOALS



WAREHOUSE MANAGEMENT



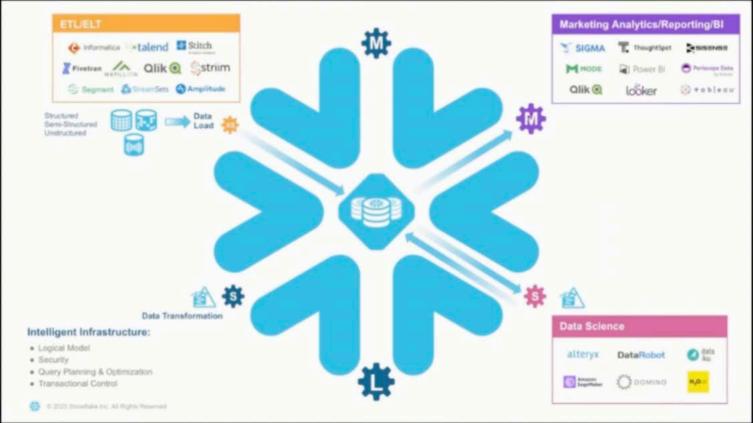


Dimensions of Scaling



ACROSS

- · Many competing workloads
- Resource contention
- · Isolate on separate warehouses



Dimensions of Scaling

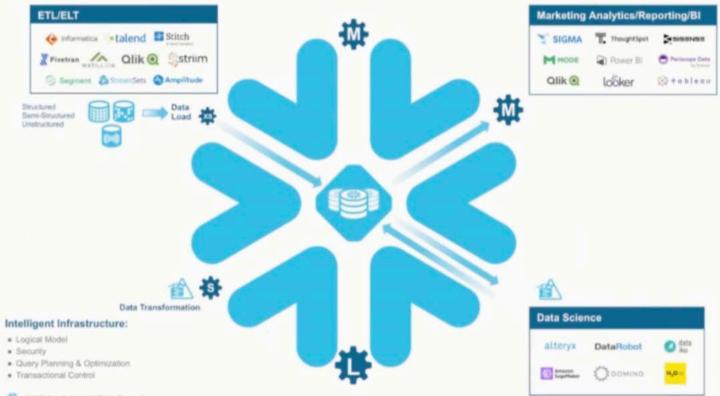


- · Single query performance
- · More data, more complex queries
- · Add more resources to the cluster



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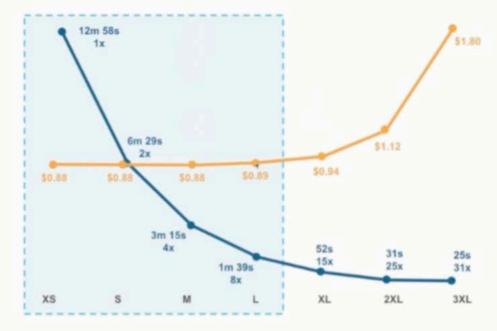


Scale Up – Loading 1BN Records

Doubling the number of servers halves the run time

 But you pay per-server, per second of compute

So you get your answer 8X FASTER FOR THE SAME COST



Cost

Secs

-

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3 Dimensions of Scaling

ACROSS

- Many competing workloads
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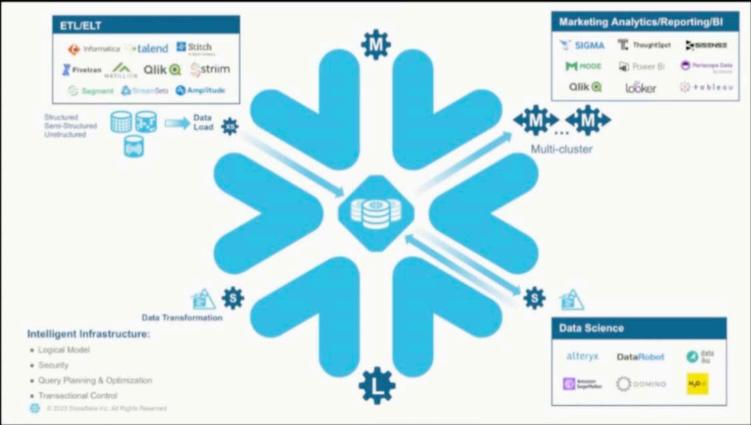


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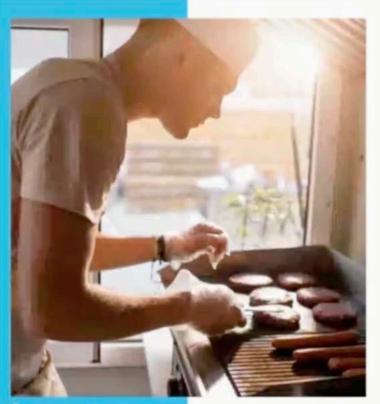


Out

- More users
- · More queries simultaneously
- · Spin up more clusters

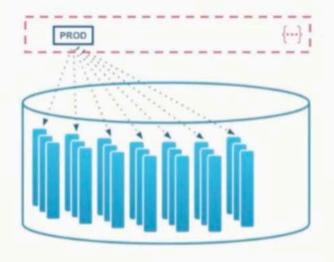


Warehouses/Compute Demo



TRANSFORMATION

Zero-Copy Cloning



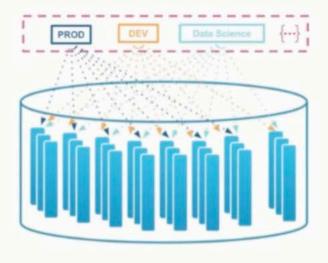
The Metadata layer keeps track of every micro-partition file in every customer database.

Creating a DEV environment usually means copying the PROD database

Limited to subset of full Prod Up to 2x storage requirement

Periodic refreshes

Zero-Copy Cloning



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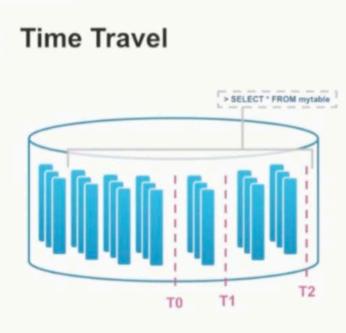
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Up to 2x storage requirement

Periodic refreshes

Snowflake Zero-Copy Clones Simply "point" to the same files Consumes zero additional storage Changes to either DB are isolated



T0 – Initial state of database

T1 - update myTable set colX = Y where...

T2 – ELT job loads new data

Previous versions of data automatically retained AT | BEFORE [timestamp | statement | offset] CLONE AT | BEFORE to recreate a prior version UNDROP recovers from accidental deletion

Accessed via SQL extensions AT | BEFORE [timestamp | statement | offset] CLONE AT | BEFORE to recreate a prior version UNDROP recovers from accidental deletion

Transformation Demo

frestbyte. COLLABORATION



Collaboration



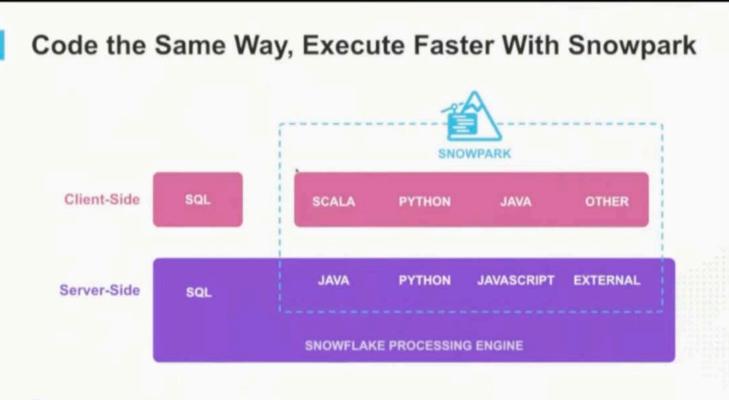
Any Format

- Near-Unlimited Scale
- Sharing Without Copying or Moving

All of Your Organization's Data, on One Platform

Your Ecosystem - Partners, Suppliers, Customers

Third-Parties - Industry Datasets, Data Services, Applications



Data Science & Machine Learning Platform

