THE INFOTRUST

Build a Modern Data Lakehouse on Apache Iceberg with Qlik Open Lakehouse

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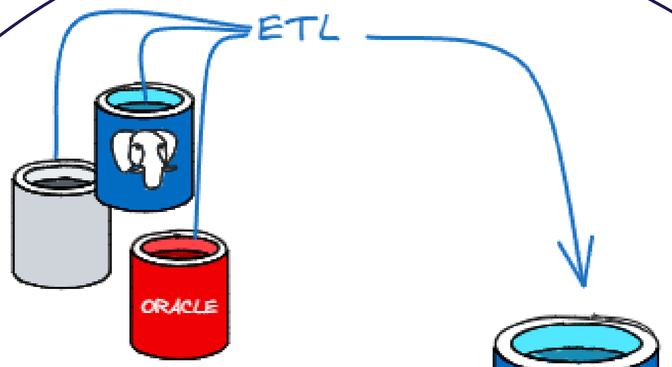
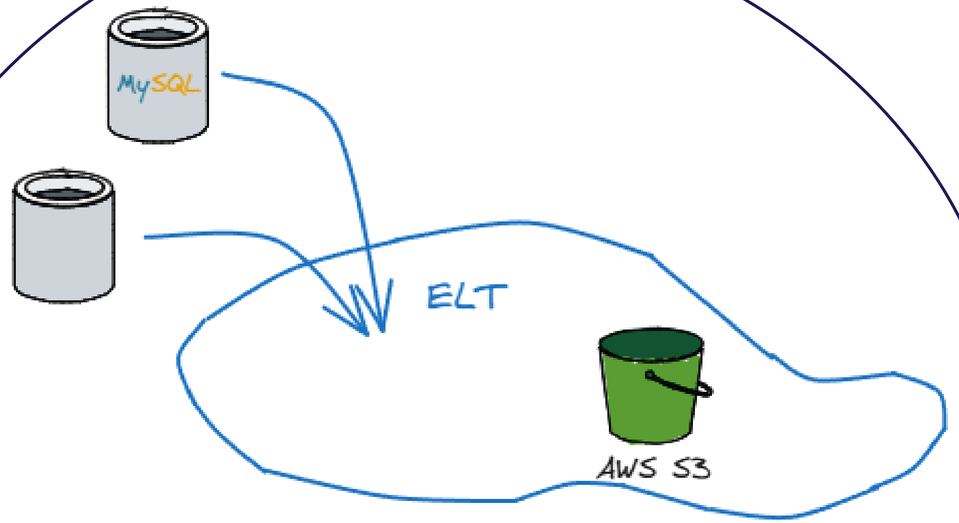
Chapter 1: Before Iceberg

IT STARTED WITH DWH

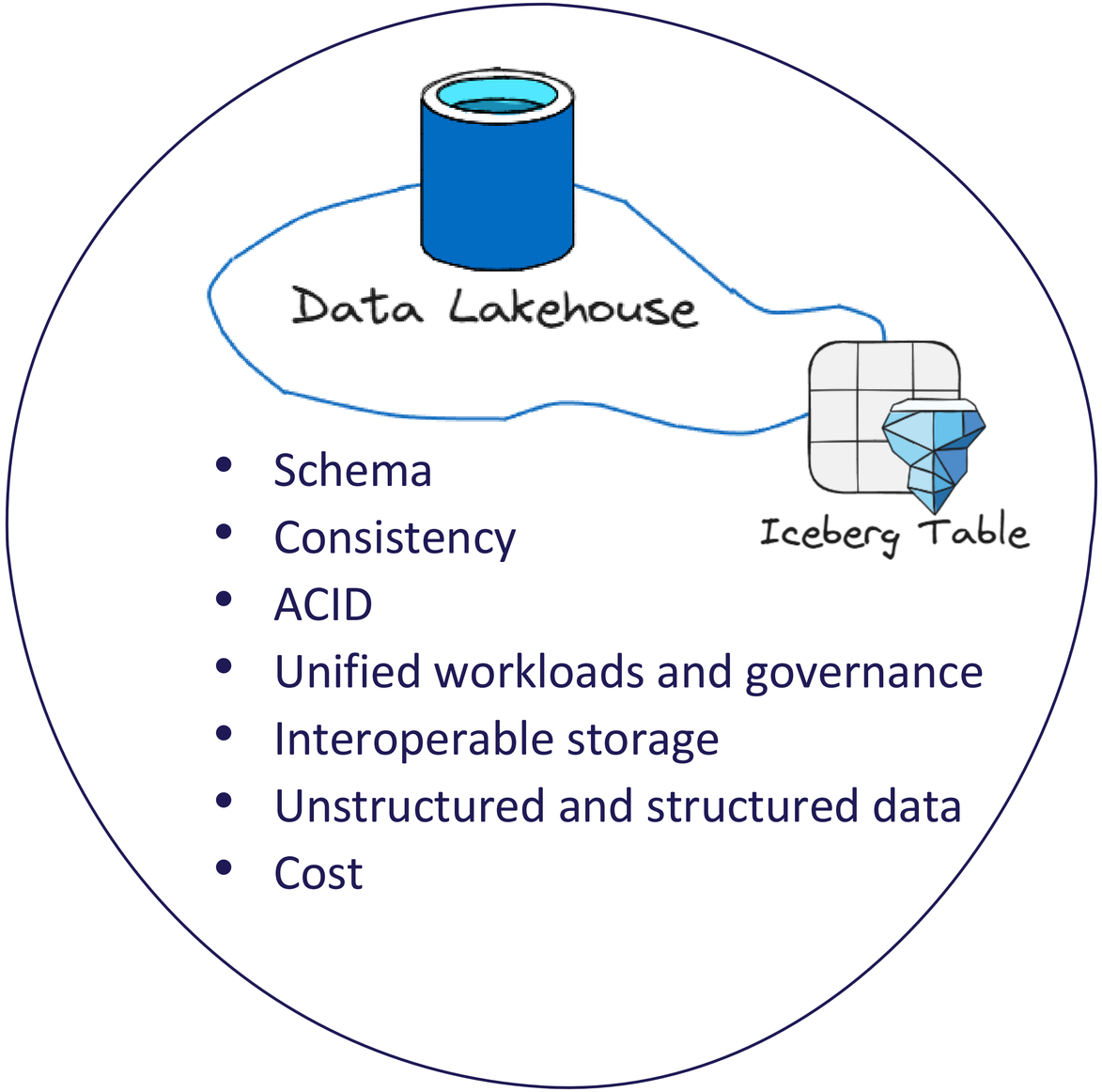


- SQL
- Analytics
- Performance
- Schema
- Consistency
- ACID



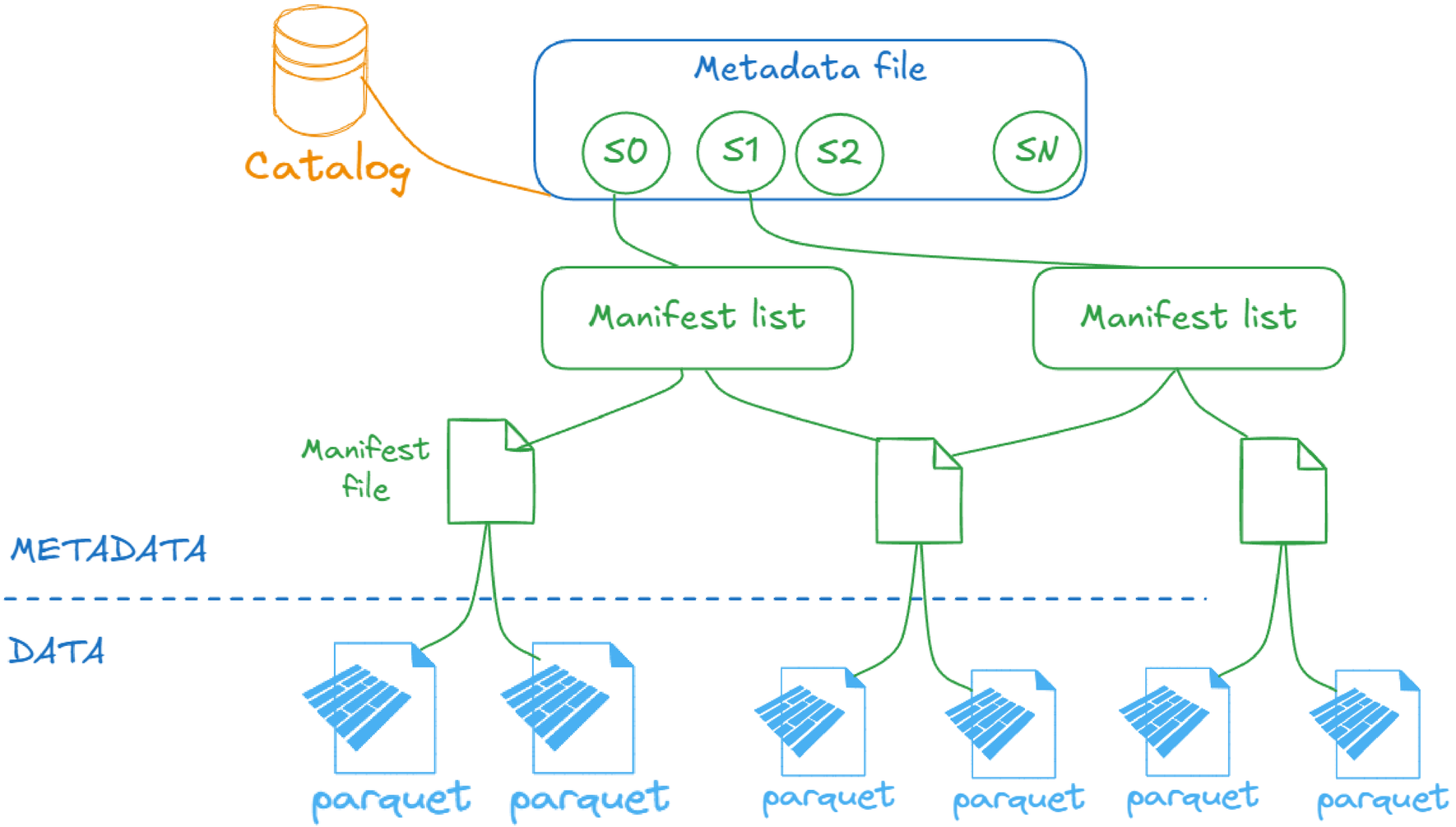
- Cost
- Unstructured and Structured data
- Open formats
- Data science

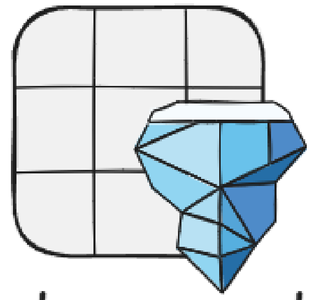
FAST, GOVERNED ACCESS FOR ALL DATA AND USERS



Chapter 2: Apache Iceberg

WHAT IS APACHE ICEBERG?





KEY TAKEAWAYS: ICEBERG

What it is

- Open Table Format over file formats.
- Sits on top of files in file systems, to specify how they can be managed as a collection of logical table entities.

Use case

- Manage data lakes as tables/views vs flat files.
- Supports many different query engines to provide a SQL table query experience.

Major benefits

- ACID transaction compliance
- Schema/Partition evolution
- Hidden partitioning
- Time travel (through snapshots)
- ..and more!

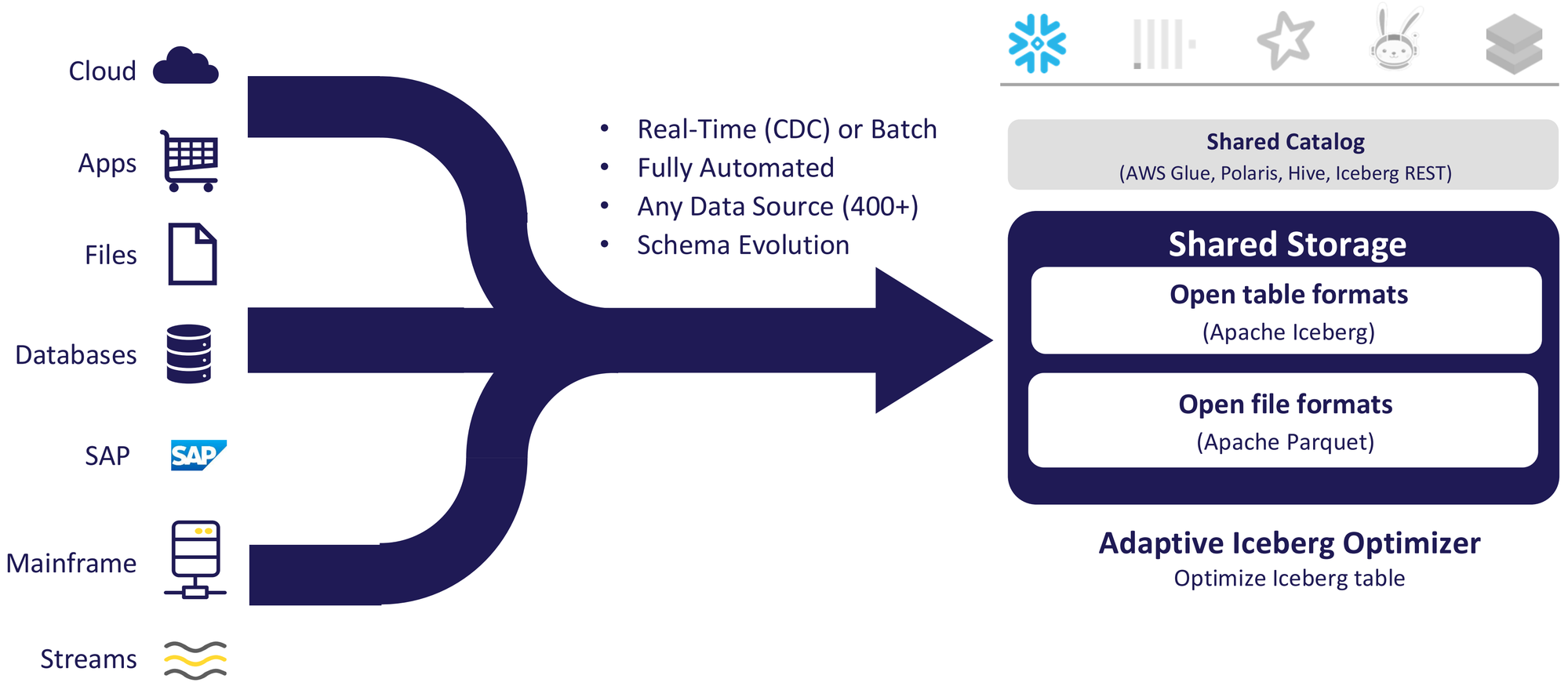
Unique features

- Agnostic to processing engines
- Schema evolution and high performance
- Strongest open source community

Chapter 3: Data -> Iceberg

QLIK TALEND CLOUD

Ingest and optimize real-time data directly into Iceberg tables with just a few clicks



Reduce costs by >50%

Ingest fresh data in seconds

Improve query performance by 5x

QLIK ADAPTIVE ICEBERG OPTIMIZER

Continuous, always-on optimizations

Cost-based compactions

Dynamically adjusts based on variables, such as # files, file sizes, frequency of updates, delete files, and more.

Dynamic Partitioning

Dynamically cluster high and partition low cardinality data and transition between them to produce most efficient layout.

Intelligent Clean ups

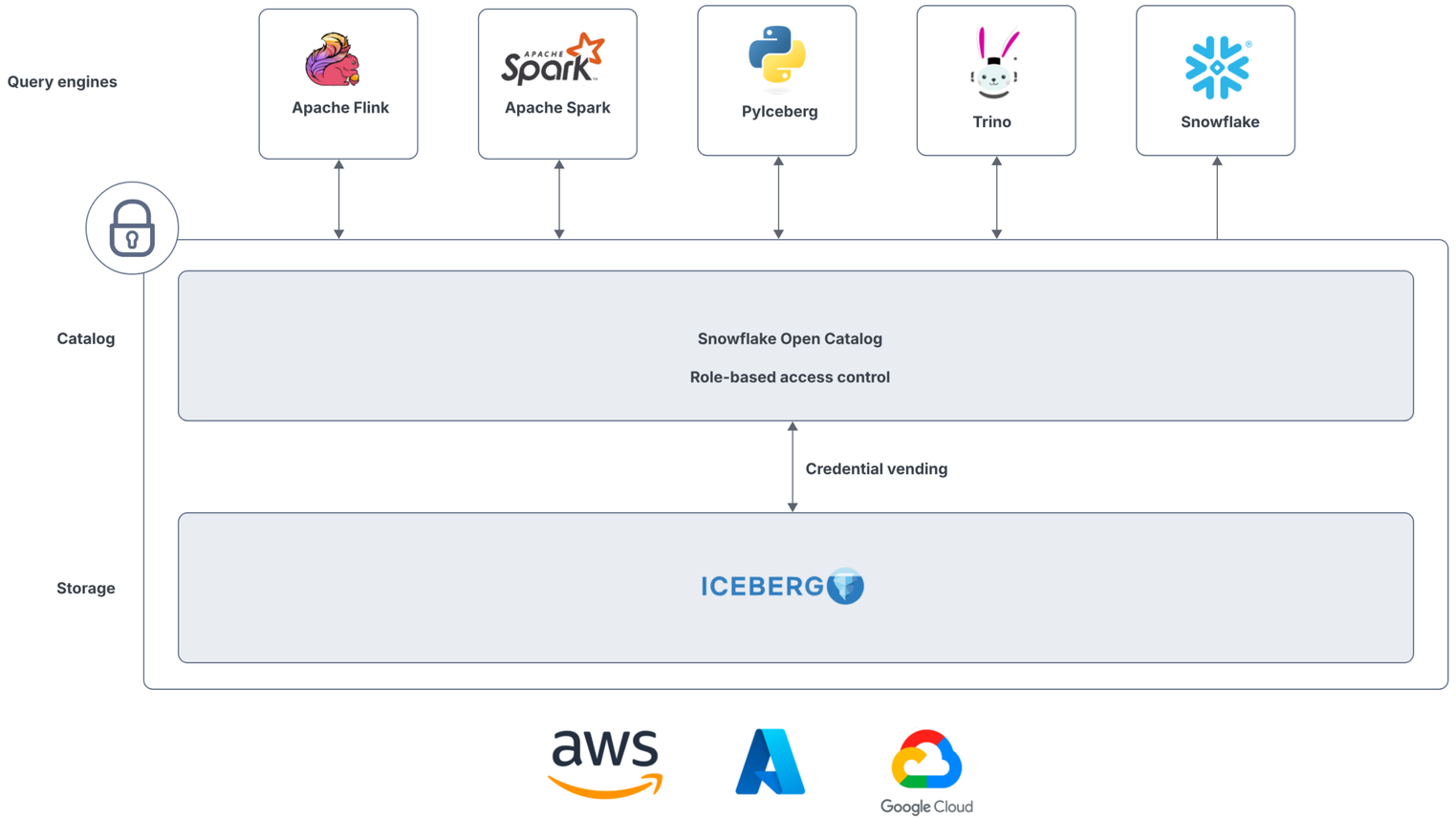
Safe snapshot expiration, retention and deletion of orphaned files using ACID transactions and extended table state.

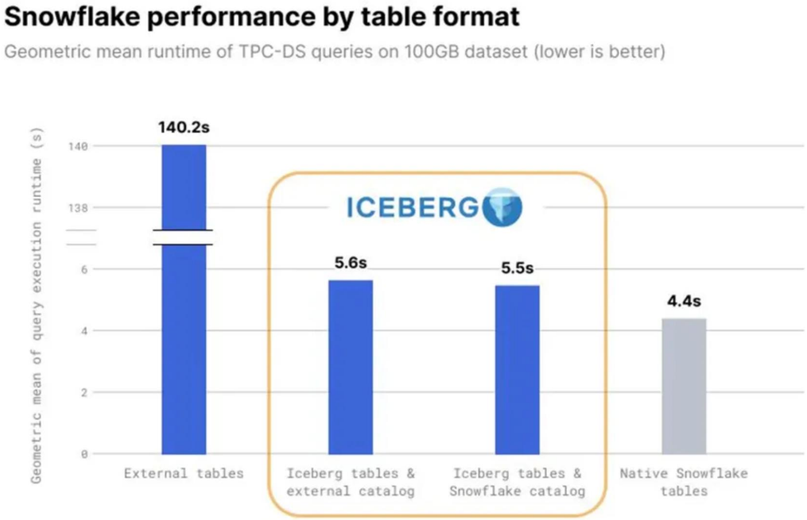
Atomatic Scaling and Healing

Fire and forget Adaptive Optimizer for workloads of any size and velocity.

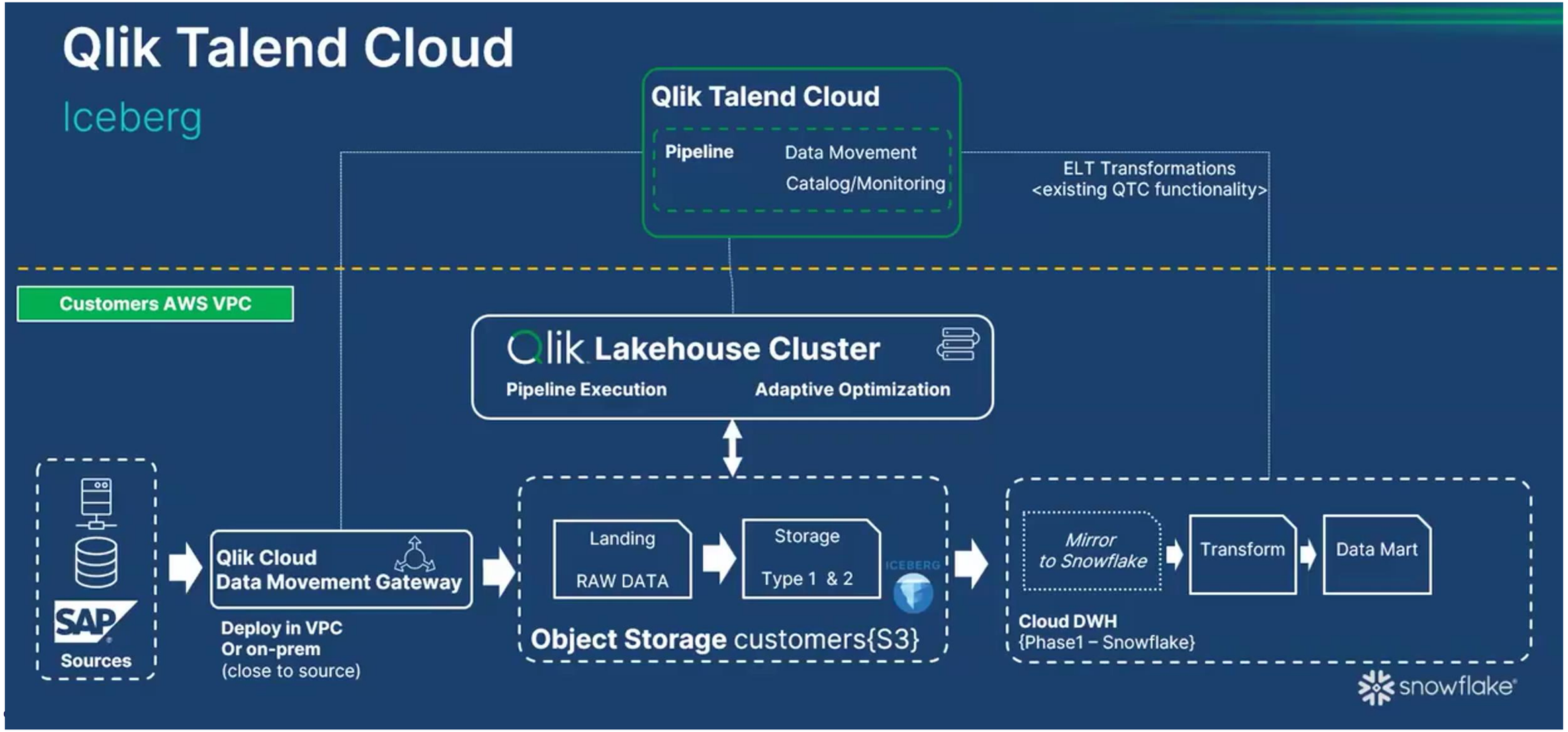
Chapter 4: Snowflake & Iceberg

SNOWFLAKE & ICEBERG





REAL-TIME OPEN DATA IN ACTION



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Paldies!

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