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Snowflake: roadmap to adopt to your own data architecture

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QLIK BALTICS ONLINE #2

QLIK AND SNOWFLAKE: SHAPE YOUR DATA

Preparation for migration project

Why to migrate and why now?

- ERP migration
- New funcionality in cloud
- ETL not reliable
- Preperation for future needs
- Users need data, not just report

Preparation for migration project

Define requirements for user experience during migration

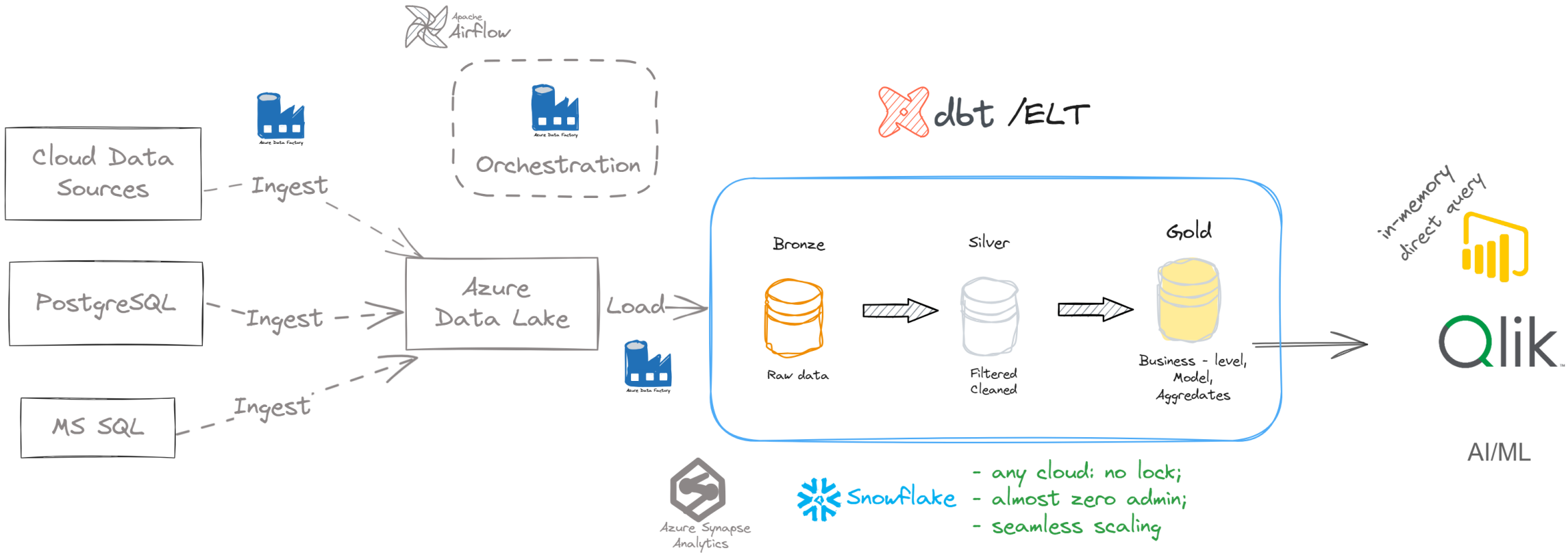
- Zero downtime for end users
- No hybrid solutions, final migration done in one day
- Different user groups can be migrated separately
- App by App migration
- Security requirements

Preparation for migration project

Evaluate data size, ingestion and data preparation time

- Can data ingestion be duplicated during migration?
- What is current workload for data preparation?
- What result is expected after migration in terms of workload/timing?
- Requirements for continuous development during migration?

REFERENCE ARCHITECTURE



Preparation for migration project

Adopt to recommended Snowflake data layer architecture (bronze/silver/gold) and map it with existing Qlik data architecture (extract/transform/mart)

- What intermediate results will be stored in Snowflake comparing to existing Qlik applications
- Requirements to Gold layer in terms of security
- Requirements to Gold layer in terms of data quality and clarity for end users
- Requirements for Bronze and Silver Layers

Preparation for migration project

Documentation

- Is it needed and how detailed - artificial dimensions and calculations, transformation logic, structure description, security
- It is more efficient to create documentation during migration (compared to stand-alone separate documentation project)

Preparation for migration project

Which tool to choose for data transformations - DBT or Snowflake scripting

- Our recommendation - DBT which provides automatic documentation and data lineage view
- Snowflake scripting is still an option for small projects with limited transformations

Preparation for migration project

Environments

- Decision on number of environments: DEV/UAT/PRD
- Different testing environments for testing transformations and testing changes in sources (migrating ERP to new version)
- Security rules for environments

Preparation for migration project

Develop migration plan based on these user project requirements

- Presentation of migration plan to project shareholders
- Approval of migration plan

Migration scenarios

Scenario A: “All at once”

- Qlik Sense on premise continues working as is.
- Data preparation chain is reallocated to Snowflake.
- Qlik Sense visual apps are migrated to Qlik Cloud and data source is switched to Snowflake.
- Qlik Sense on premise is switched off.
- Data preparation reengineering can happen on the way or at the end as a new project.

Migration scenarios

Scenario B “All at once – Snowflake then Qlik Cloud”

- Qlik Sense on premise continues working as is.
- Data preparation chain is reallocated to Snowflake.
- Data source of Qlik Sense on premise apps is switched to Snowflake.
- Qlik Sense apps are migrated to Qlik Cloud.
- Qlik Sense on premise is switched off.
- Data preparation reengineering can happen on the way or at the end as a new project.

Migration scenarios

Scenario C ”Qlik Cloud priority”

- App migration (including data preparation ETL apps) to Qlik Cloud happens. Qlik Sense on premise is switched off.
- Data preparation chain is reallocated to Snowflake.
- Data source of Qlik Sense visual apps is switched to Snowflake.
- Qlik ETL apps can be removed.
- Data preparation reengineering can happen on the way of reallocation to snowflake or at the end as a new project.

Migration scenarios

Scenario D ”Hybrid”

- Qlik Sense on premise continues to prepare data, reload apps.
- Visual apps are migrated to Qlik Cloud.
- Data preparation chain is reallocated to Snowflake.
- Data source in Qlik Cloud apps is switched to Snowflake.
- Qlik Sense on premise is switched off.
- Data preparation reengineering can happen on the way of reallocation to snowflake or at the end as a new project.

Migration scenarios

Scenario E “App by App”

- Qlik Sense on premise continues working as is.
- Data preparation chain is reallocated to Snowflake gradually (app by app)
- Qlik Sense visual apps are gradually migrated to Qlik Cloud and data source is switched to Snowflake (app by app).
- Qlik Sense on premise is switched off when all app are migrated to Qlik Cloud and switched to Snowflake.
- Data preparation reengineering can happen on the way or at the end as a new project.

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Thank You!

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Book a meeting:

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