



Microsoft Fabric and Snowflake – better together

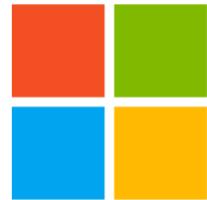
Michał Golos

Paweł Potasinski





Special thanks to Fabric and Power BI Team at



Microsoft

This Summit presented to you by



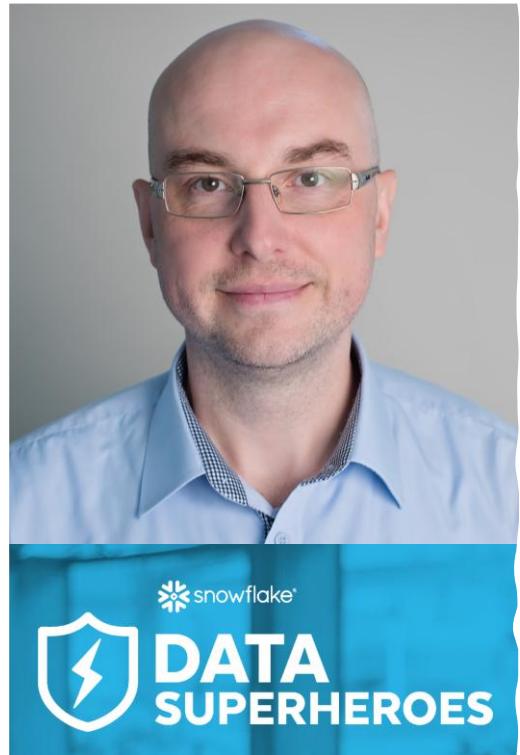
RADACAD





Michal

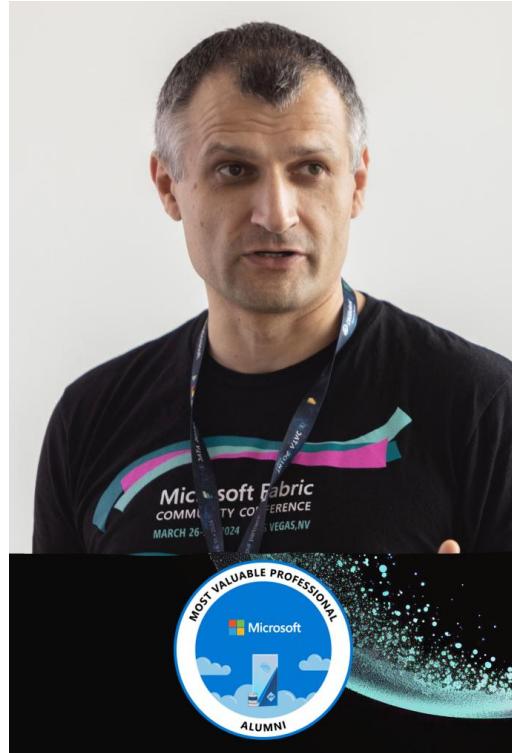
- Snowflake Evangelist at Ininite Services
- Specializes in designing and implementing data warehouse solutions and ETL/ELT processes
- Explorer and enthusiast of cloud solutions
- Speaker at conferences on data processing technologies
- Lecturer & trainer
- In love with the Snowflake platform from the first click
- Snowflake Community Data SuperHero





Pawel

- CTO at Ininite Services
- Specializes in building data strategies and designing solutions on modern data platforms for large organizations
- Founder of Data Community Poland
- Speaker at conferences, community meetings and meetups
- Former member of the Azure Data team at Microsoft
- 8x Microsoft Most Valuable Professional (MVP)
- Former lecturer



LINKEDIN

www.linkedin.com/in/pawelpotasinski



Power BI & Fabric **SUMMIT**

2025





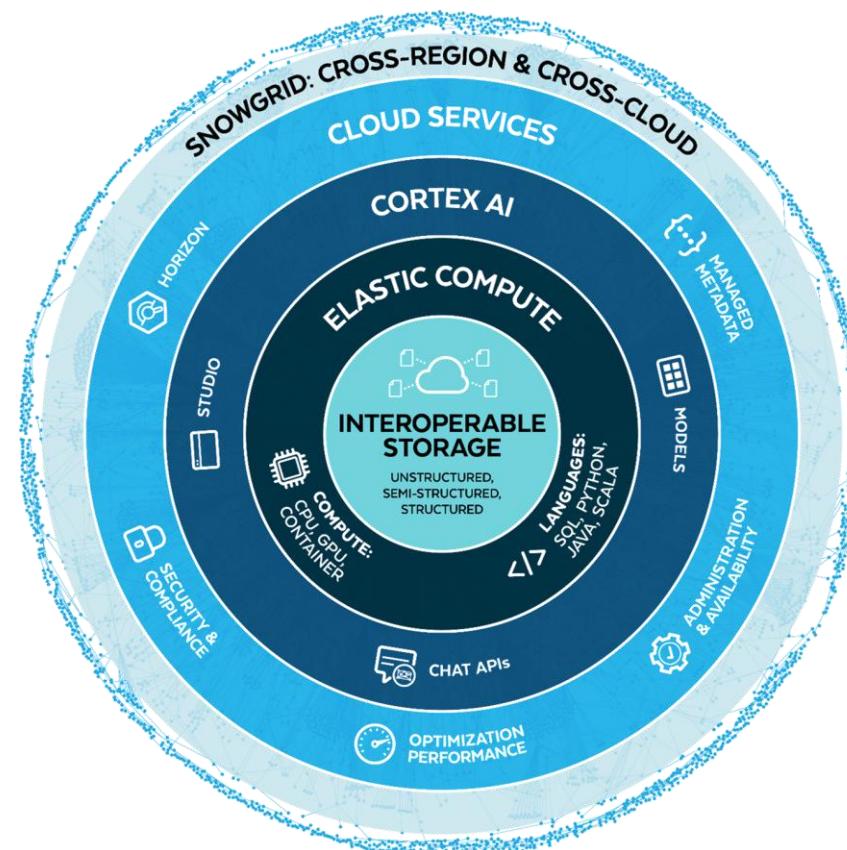
Agenda

- Quick intro to Snowflake and Fabric
- Problem and goal statement
- Possible solutions
- Summary and resources



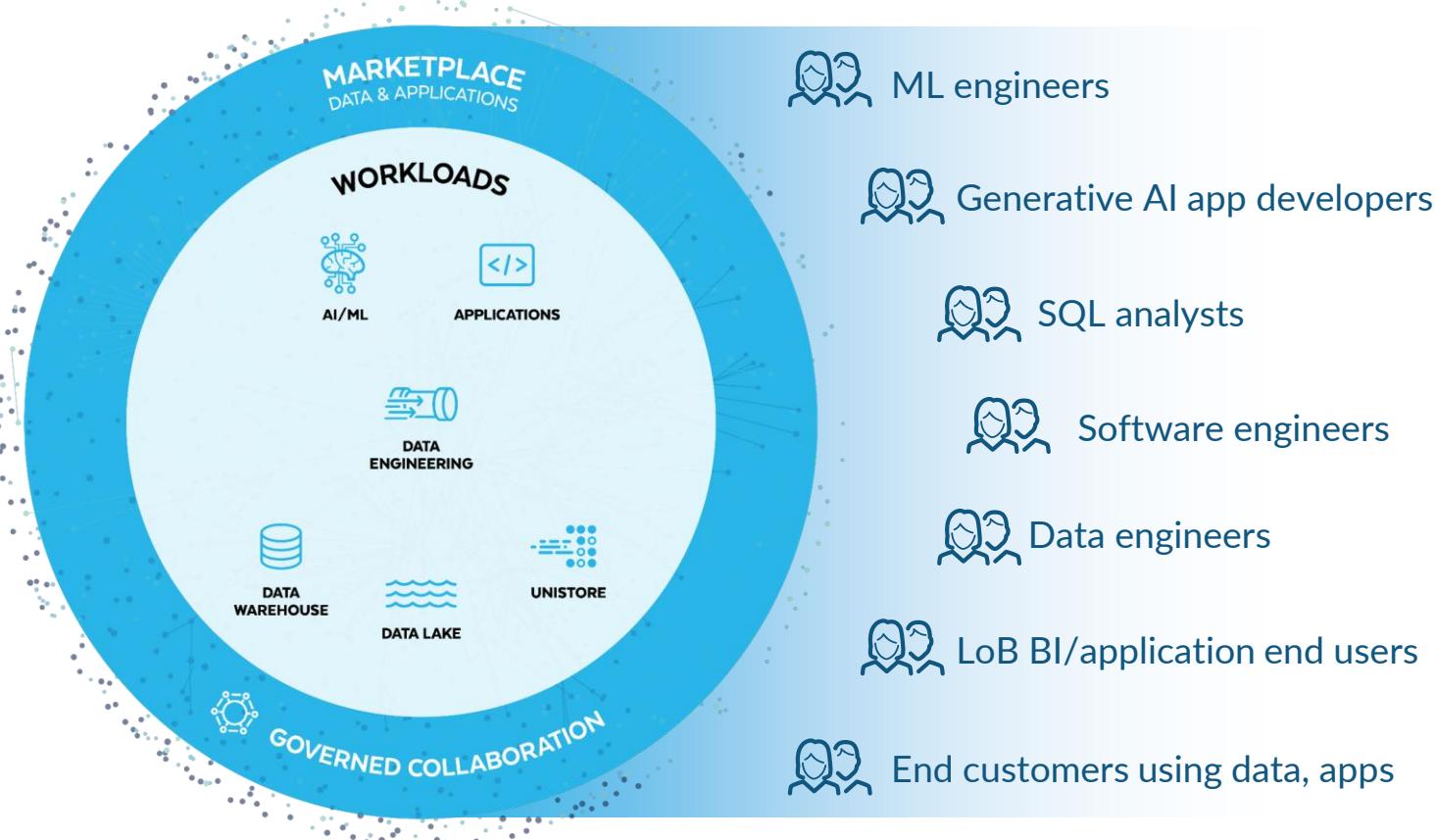


What is Snowflake





Snowflake AI Data Cloud





What is Fabric



Data
Factory



Analytics



Databases



Real-Time
Intelligence



Power BI



Industry
Solutions



Partner
Workloads



AI



OneLake



Purview



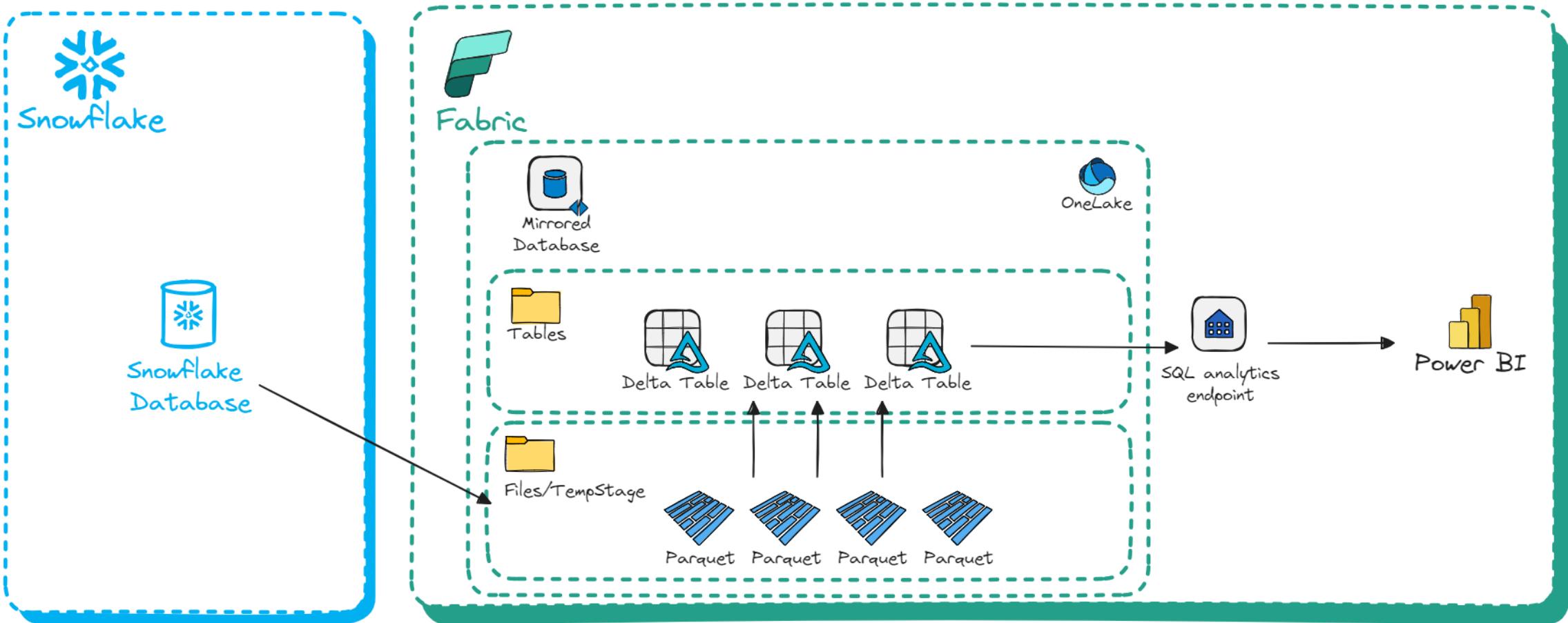


Problem and Goal Statement

- We want to make **data from Snowflake available for Fabric/Power BI**
 - Snowflake as a data hub, Fabric/Power BI as a BI/analytics tool
- We want to **share data products** between Snowflake and Fabric
 - Snowflake and Fabric used as full-blown data platforms
 - Useful in large distributed organizations
 - Useful for Data Mesh operating model
- We have Fabric and want to **optimize Snowflake compute cost**
 - Access data produced by Snowflake without virtual warehouse running



Snowflake Mirroring



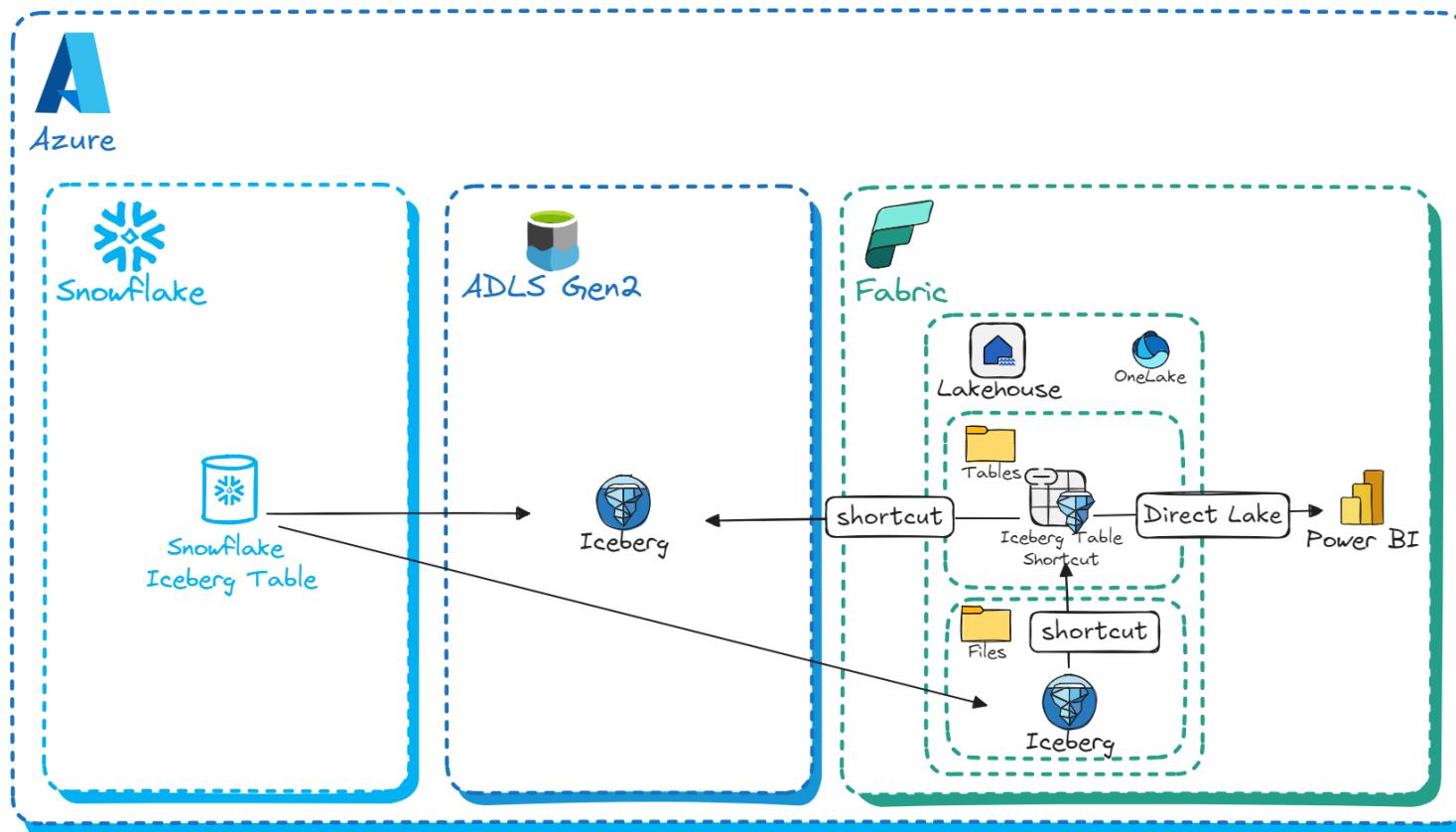


Snowflake Mirroring Considerations

- ✖ Only native tables
 - ✖ External, Transient, Temporary, Dynamic, Iceberg tables not supported
- ✖ Up to 500 tables can be replicated
- ✖ No support for Snowflake accounts behind a private network
- ✖ Replication frequency falls down to 1 hour when no changes occur
- ✖ Some schema changes require a DML operation to be replicated
- ✖ Snowflake compute required



Snowflake to Fabric





DEMO

Snowflake to Fabric





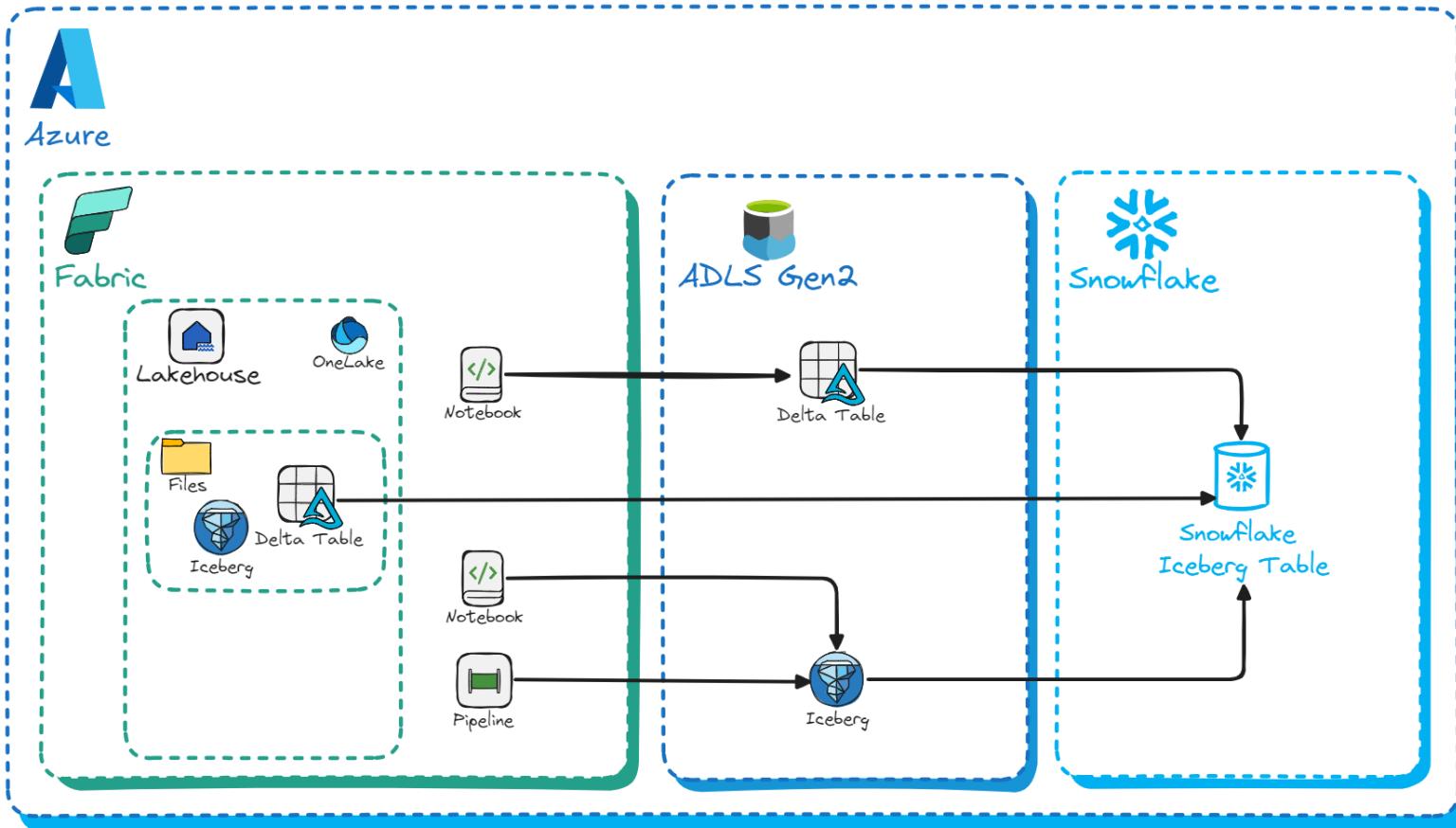
Shortcuts to Iceberg Tables Considerations

- ✗ Not all data types are supported
- ✗ Up to 5,000 data files or ~1B rows in a table
- ✗ Numeric columns with precision ≥ 10 may be not consumable
- ✗ One set of metadata files supported
 - ✗ UNDROP in Snowflake not supported
- ✗ Metadata is not portable
- ✗ Metadata changes may require a DML operation to show up in Fabric
- ✗ Schema enabled lakehouses not supported
- ✗ Private links not supported
- ✗ OneLake shortcuts must be in the same region
- ✗ Iceberg table must be copy-on-write (not merge-on-read)

- ✓ Time Travel supported (table versions correspond to Iceberg metadata)



Fabric to Snowflake





DEMO

Fabric to Snowflake





Delta Direct Considerations

- ✗ Delta Lake 3.1 or earlier supported
- ✗ Snowflake streams not supported for partitioned tables
- ✗ Dynamic tables on Iceberg tables created from Delta files not supported
- ✗ Some data types in Delta files not supported
- ✗ Some Delta features not supported (e.g. row tracking, CDC, change metadata)

- ✓ Time Travel supported (table versions correspond to Delta log commit files)





Resources to study more

- [Snowflake and Microsoft announce expansion of their partnership](#)
- [Simplifying Data Architecture and Security to Accelerate Value](#)
- [Microsoft Fabric Mirrored Databases From Snowflake](#)
- [Create shortcuts to Iceberg tables - Microsoft Fabric](#)
- [Getting Started with Iceberg in OneLake](#)
- [CREATE EXTERNAL VOLUME](#)
- [CREATE ICEBERG TABLE \(Snowflake as the Iceberg catalog\)](#)
- [CREATE ICEBERG TABLE \(Delta files in object storage\)](#)





Thank you

- Connect to us at:



MICHAL

www.linkedin.com/in/michal-golos



PAWEŁ

www.linkedin.com/in/pawelpotasinski

- Stay online for our live Q&A sessions

