

Algemene informatie en 'huisregels'



WEBINAR

MS Fabric – What's the fuzz about

- De webinar wordt opgenomen
- Slides en opname worden achteraf gedeeld via de mail
- **¬** Q&A bewaren we tot het eind
- Inzoomen?
- Graag je microfoon uitgeschakeld houden
- Camera's aan: optioneel, liefst wel tijdens Q&A
- **■** Eet smakelijk!

Hello world!



Steven van den Beemt

Cloud Architect | ISO MCT

@ICT Group









Agenda



- Introduction
- **¬** MS Fabric / OneLake architecture
- MS Fabric security
- Direct Lake



Introduction



Introduction

2023 2014 2015 2020 Ingestion Ø. Gateway Databricks SaaS Shared (Spoke) **Pipelines** Data Factory Load and ingest Store Curr Datav Quarantine Raw Collaborate/C Store

Introduction

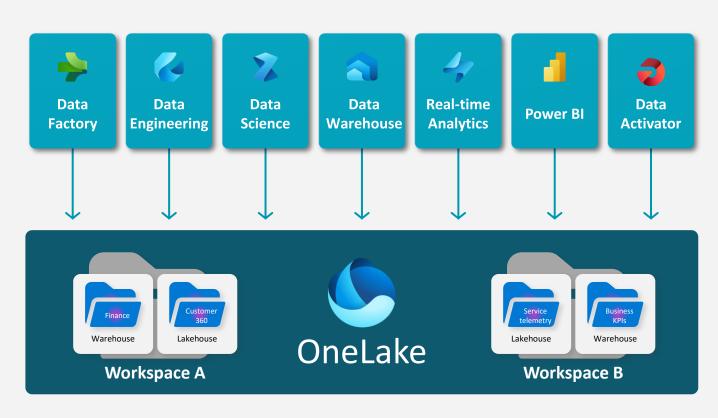
2014 2015 2020 2023





Understand Fabric architecture





Intelligent data foundation

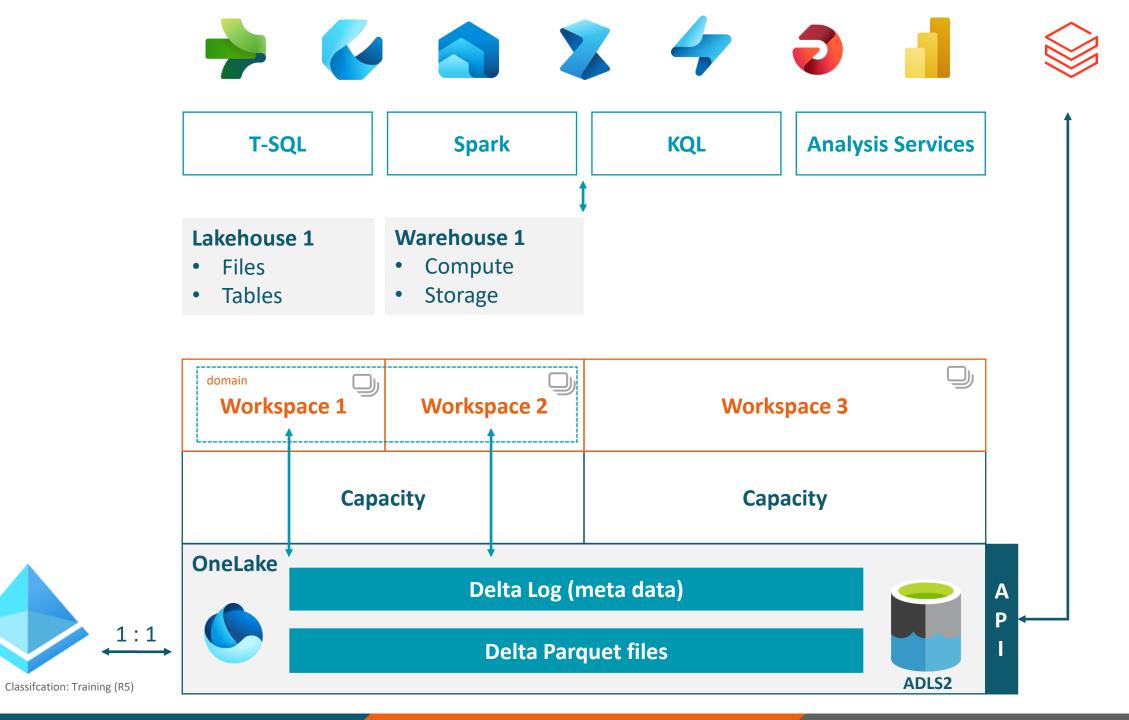
Single SaaS lake

Provisioned automatically with the tenant.

All workloads automatically store data in OneLake workspace folders.

All data is organized in a hierarchical namespace.

Data in OneLake is automatically indexed for discovery, MIP labels, lineage, PII scans, sharing, governance and compliance.



Demo



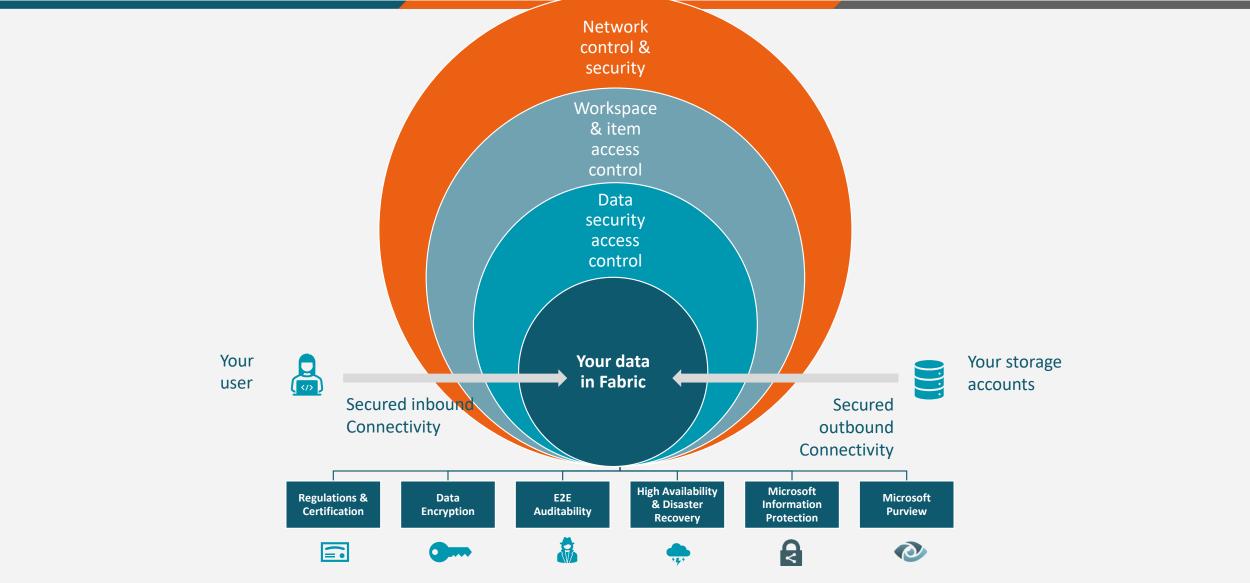


Security in MS Fabric



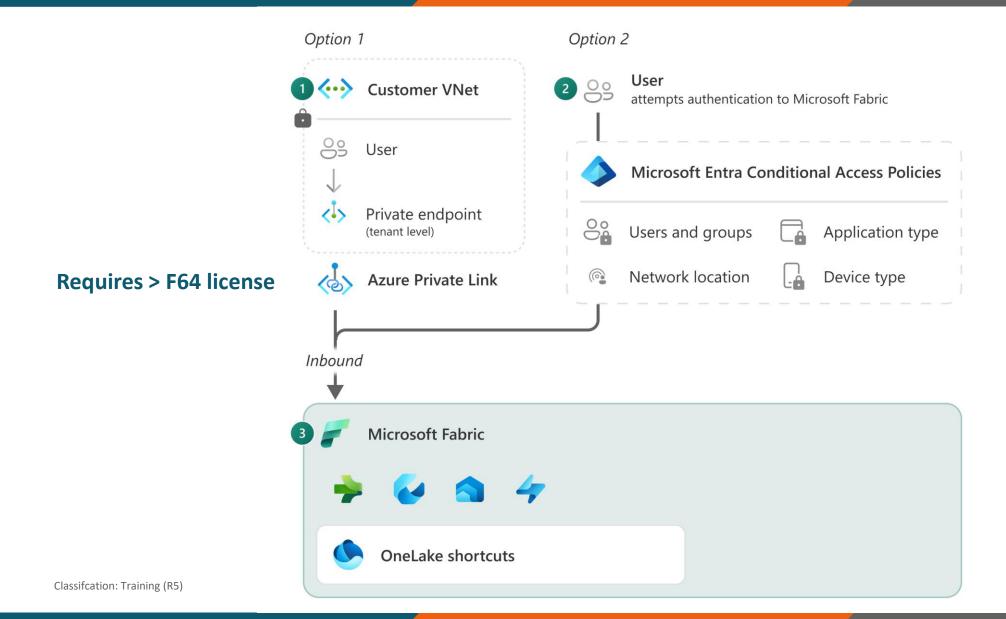
Manage Fabric security





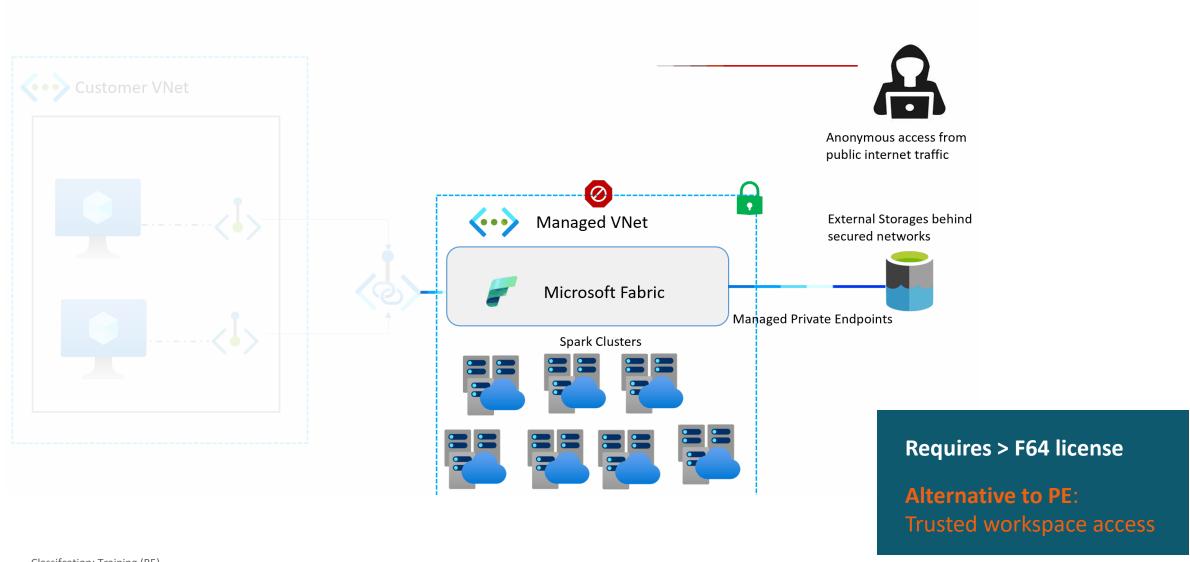
Network Control - Inbound





Network Control - Outbound



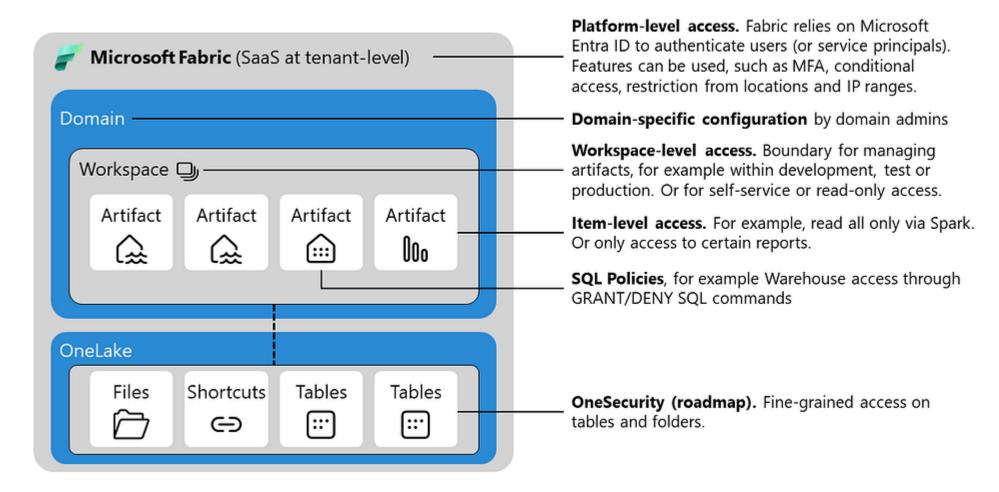


Classifcation: Training (R5)

Workspace-, Item- & Data item security

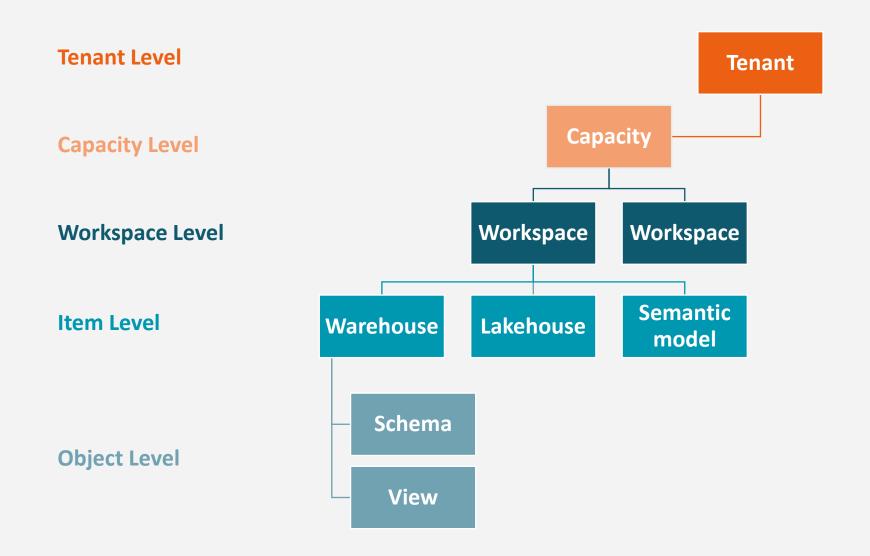


Microsoft Fabric: Multiple layers of security and access control

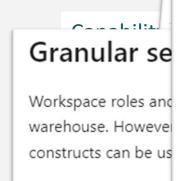


Workspace-, Item- & Data item security





Workspace roles

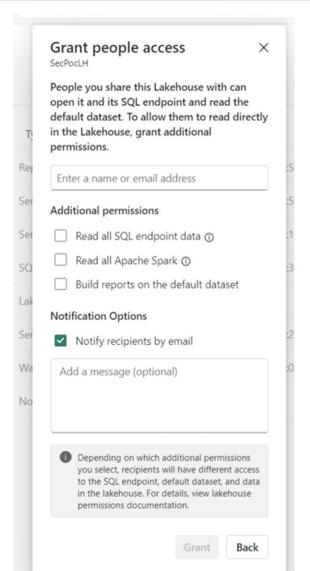


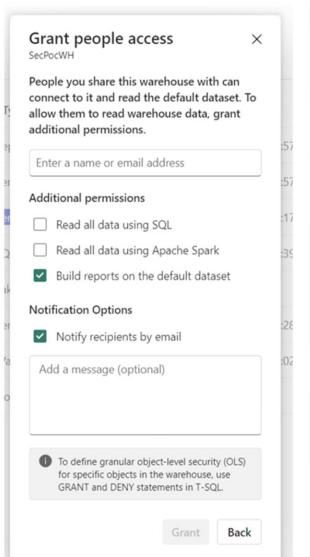
Microsoft Fabric data sensitive data from u features can provide

- Object-level se
- Column-level s
- Row-level secu
- Dynamic data r complete, such

Execute experim

Execute View exe





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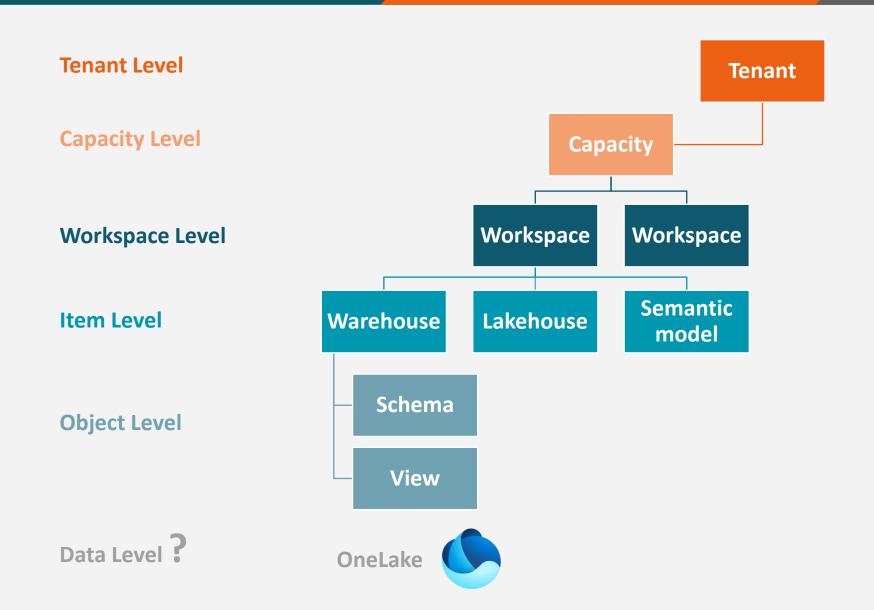
Modify gareway connection settings 3

Classifcation: Training (R5)

ICT GROUP

Workspace-, Item- & Data item security





What about the data in OneLake?



OneLake security model

Estimated release timeline: Q1 2025

Release Type: Public preview

Managing data security across multiple analytical engines and copies of data is challenging. One Lake and Fabric simplify this by enabling the use of a single data copy across multiple analytical engines without any data movement or duplication. Taking the "one copy" concept further, One Lake is also enhancing security with a finer-grain model, allowing for table and folder access in addition to row and column level security. These security definitions live with the data and travel across shortcuts to wherever the data is used. Security defined at One Lake is universally enforced no matter which analytical engine is used to access the data.

OneLake Data Access Roles





Manage OneLake data access (preview)

Turn on data access roles (preview)

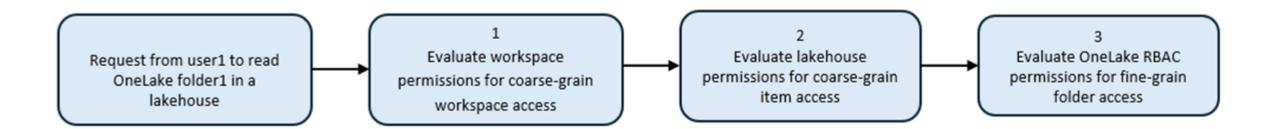
You are about to turn on OneLake data access roles (preview) for this lakehouse. Using this capability, workspace admins, members, and contributors are permitted to change Onelake data access permissions at the folder level. Learn more □

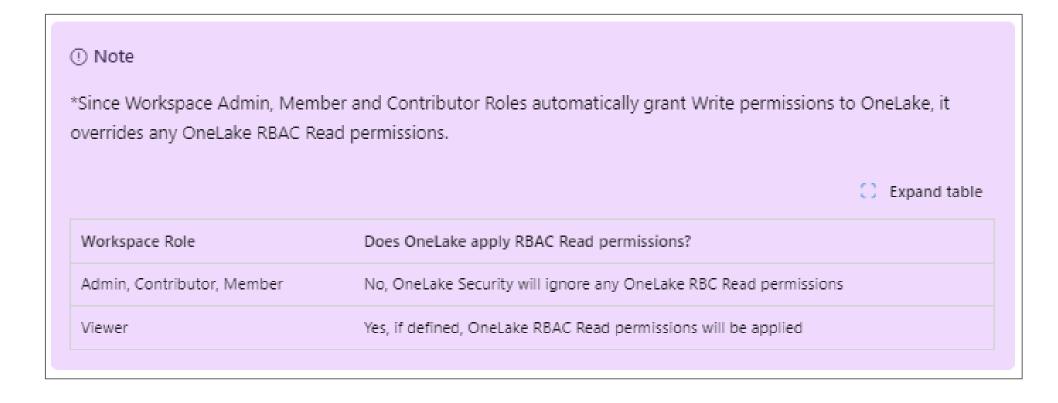
(i) After OneLake data access roles is applied to GoldLakeHouse only users with Write permission can share the data in this item using External data sharing (preview). Any existing external data shares may stop working. Learn more □

Continue

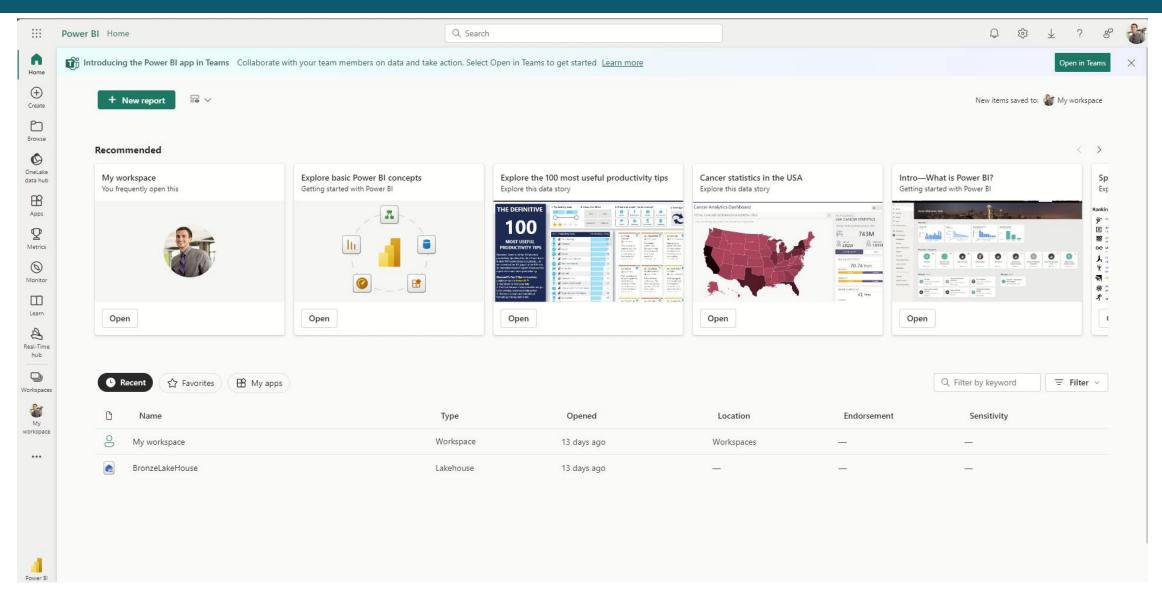
Cancel

How are permissions evaluated?





Demo



Classifcation: Training (R5)

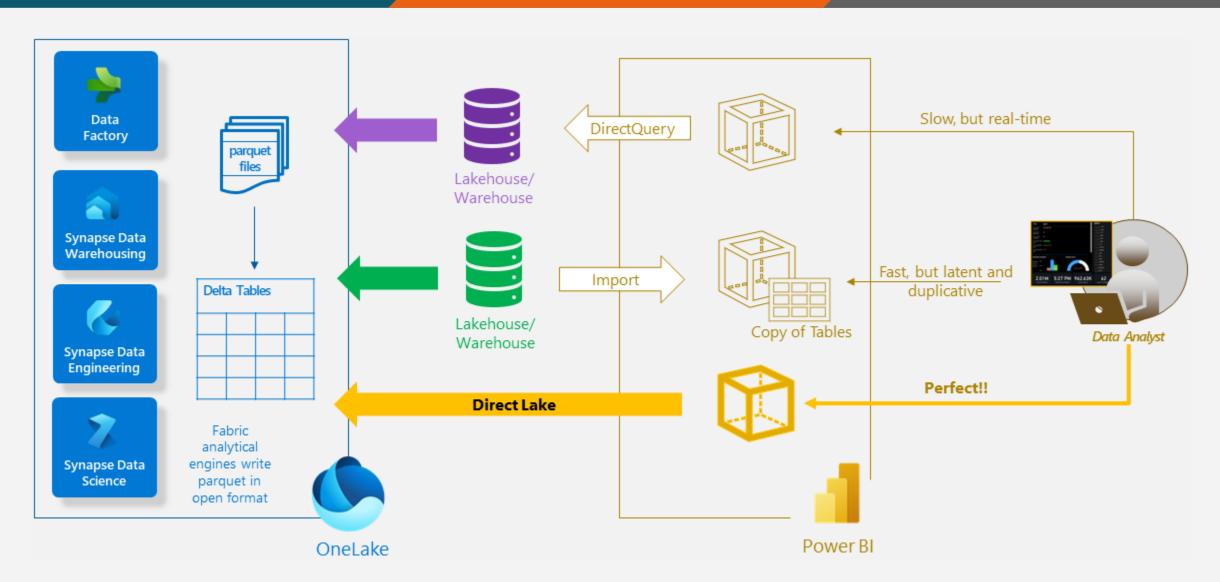


Direct Lake



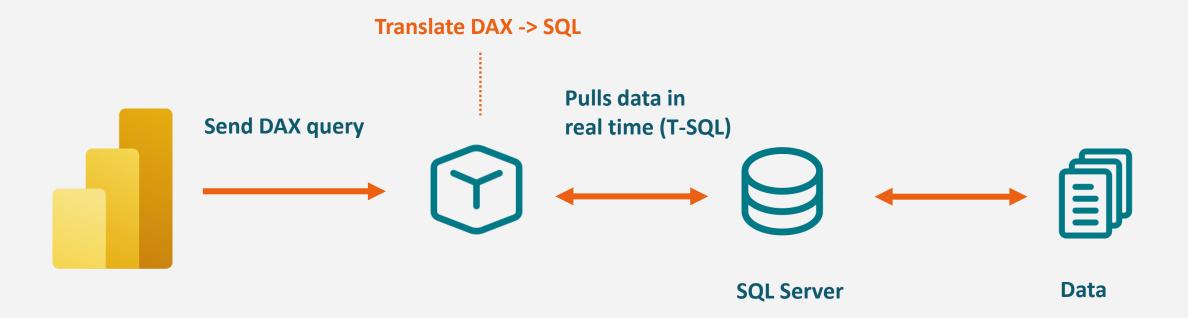
Direct Lake





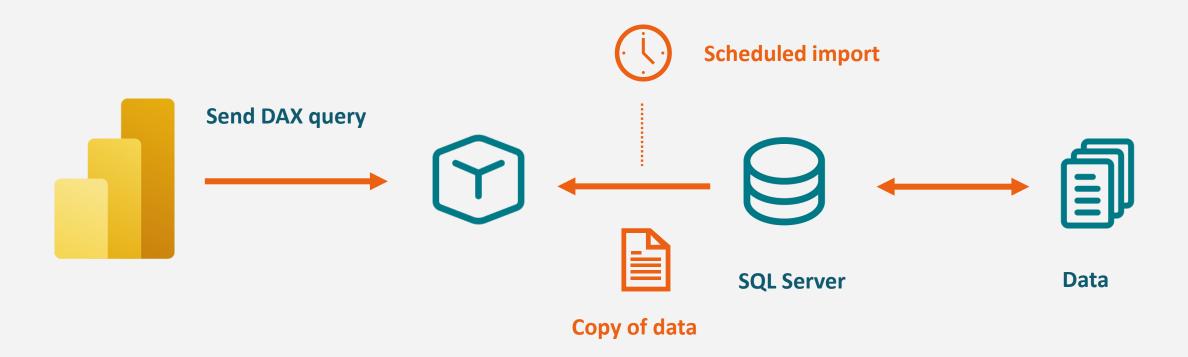
DirectQuery





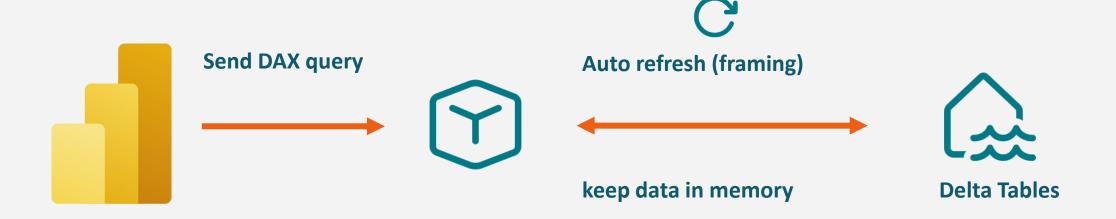
Import





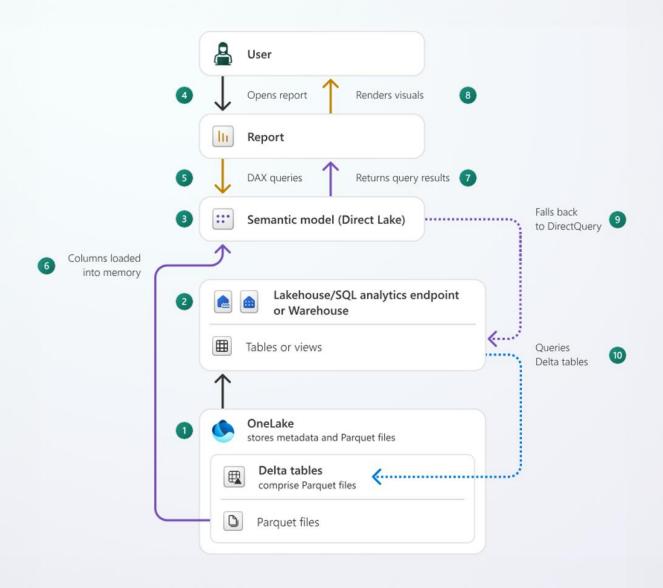
DirectLake



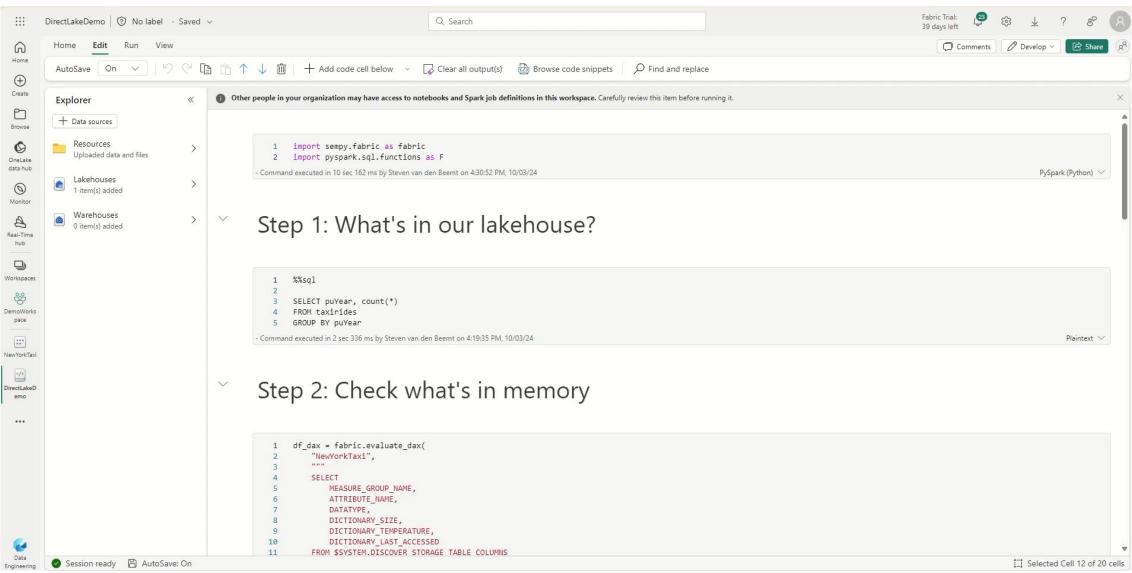


Direct Lake semantic model





Demo



Classifcation: Training (R5)

Direct Lake



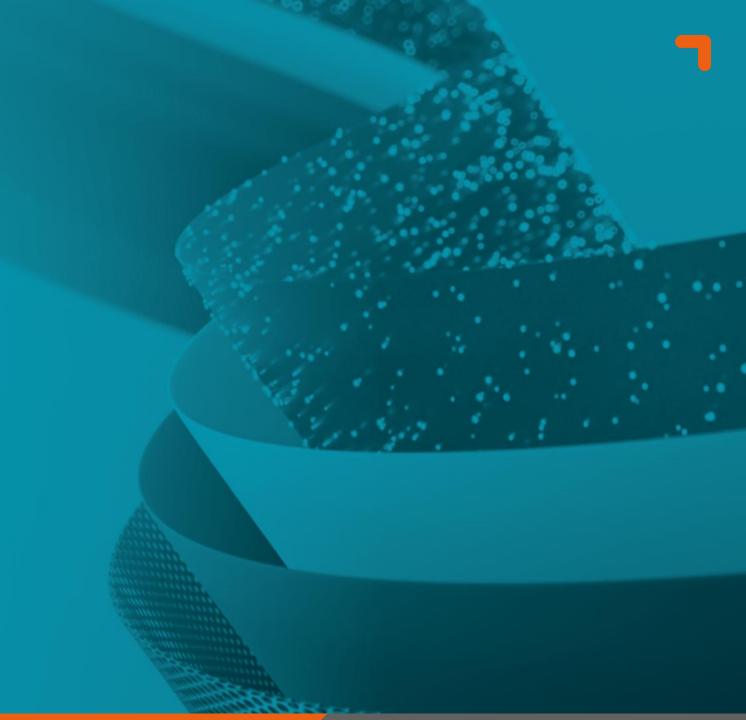
What makes it fast?

- PowerBi queries Parquet files stored in OneLake directly
- Loaded in memory using the VertiPaq engine
- Data will be transcoded on-the-fly in VertiPaq format
- **¬** V-order storage

¬ Fallback to DirectQuery mode



Wrap-up



Key takeaways



- Outthink your workspace design upfront
- Make sure your capacity is deployed in Europe
- Authorization within MS Fabric is still a challenge
 - **¬** Hopefully, this will improve in Q1 2025
- DirectLake speeds up your reports when using large datasets



