# DP-203 Microsoft Azure Data Engineer

Day9 – Azure Synapse Analytics

2<sup>nd</sup> Aug 2021

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#### Introduction

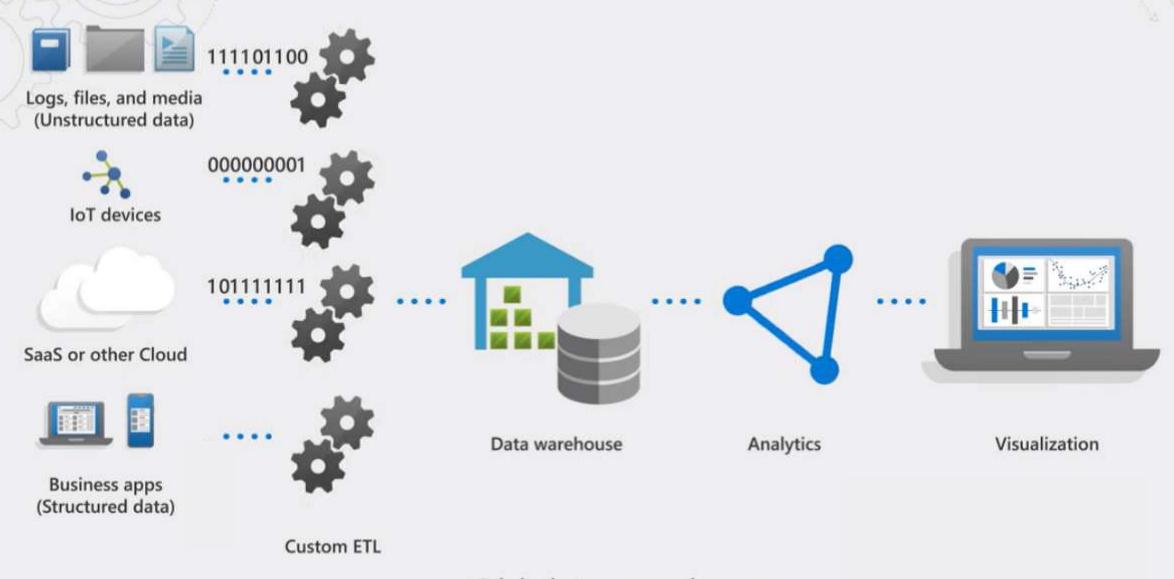
- Why Warehousing in Cloud
- Azure Synapse Service a Game Changer
- Traditional vs Modern DW
- Architecture Modern vs Synapse DW
- Architecture Azure Synapse Studio Unified Experience





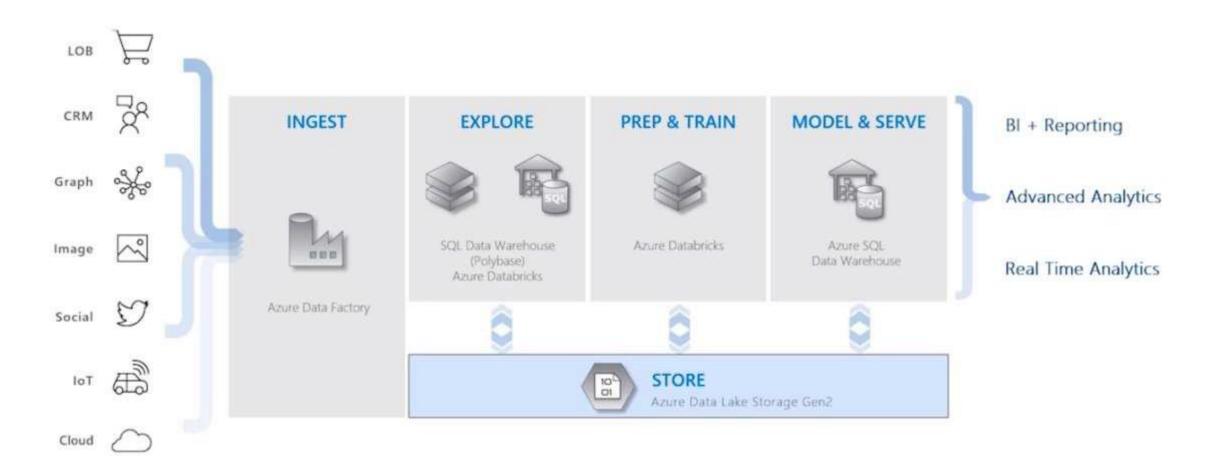
## Why Warehousing in Cloud?



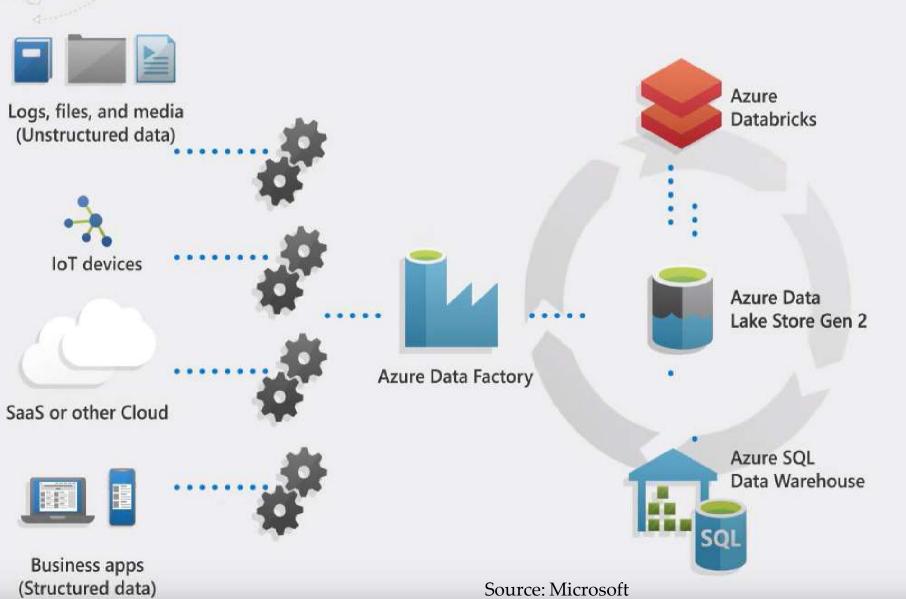


Old data warehouse

## Modern Data Warehousing



#### Modern Data Warehouse



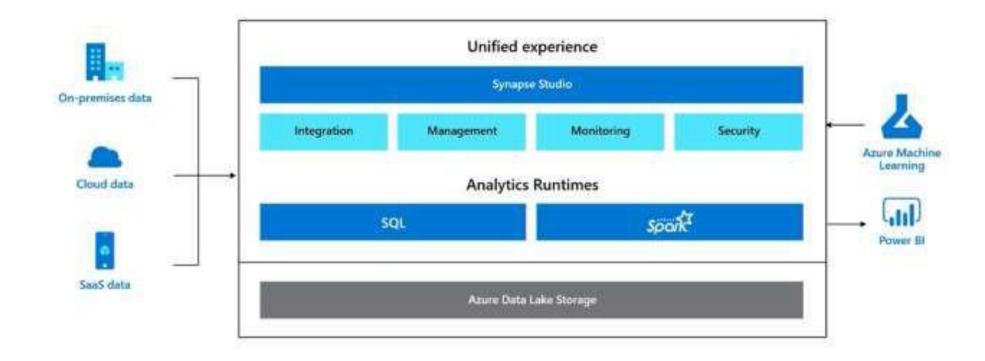
Visualization (Power BI)

"Synapse is the next generation of Azure SQL Data Warehouse, blending big data analytics, data warehousing, and data integration into a single unified service that provides end-to-end analytics with limitless scale."







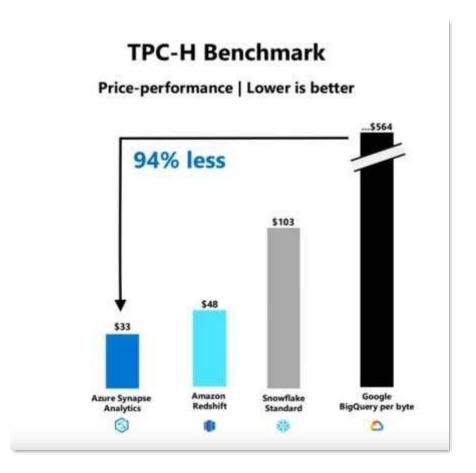




#### Unparalleled price-performance

Up to 14x faster

Costs 94% less than other cloud providers







Limitless Scale



Security



Powerful Insight



Code free data orchestration



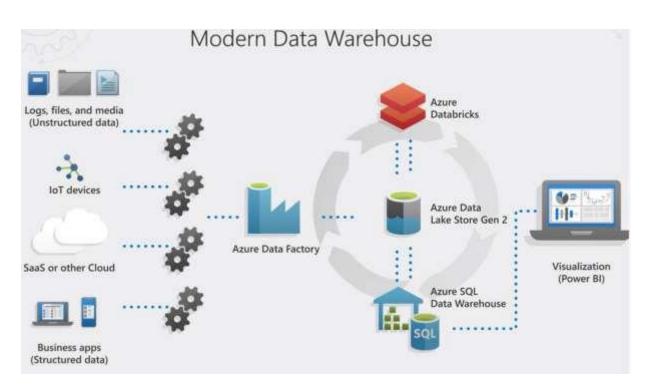
Unified Experience

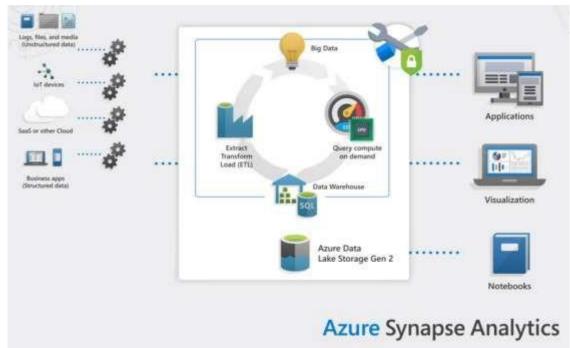


Choice of Language



#### Modern vs Synapse Architecture

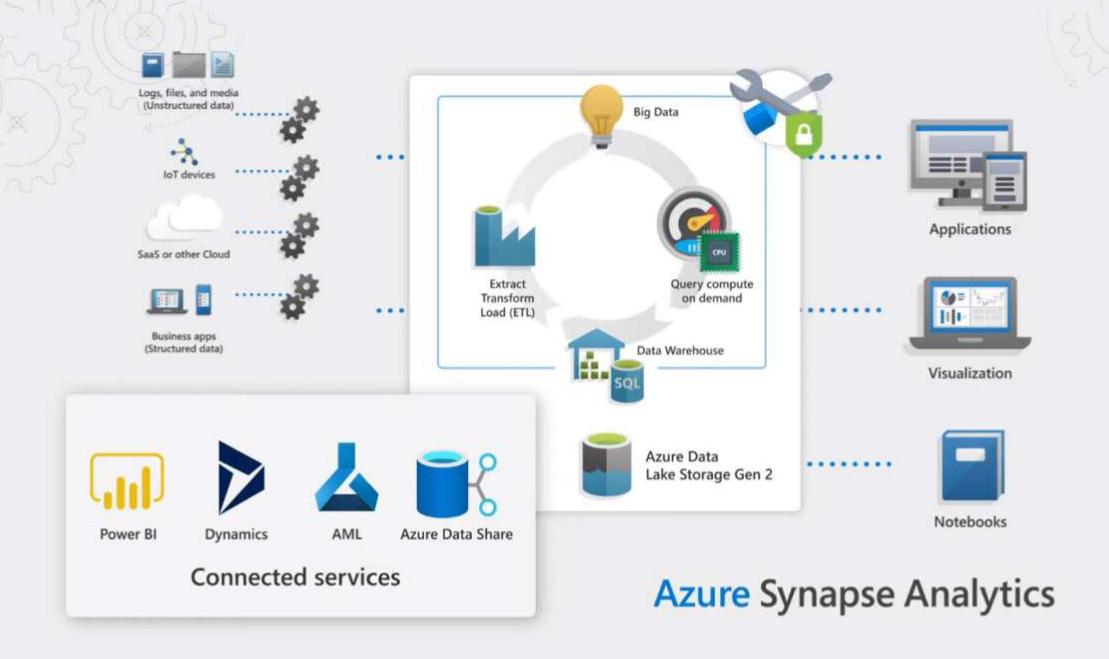




Modern Data Warehouse Architecture

Synapse Analytics Architecture







### Demo – Provision Azure Synapse Service

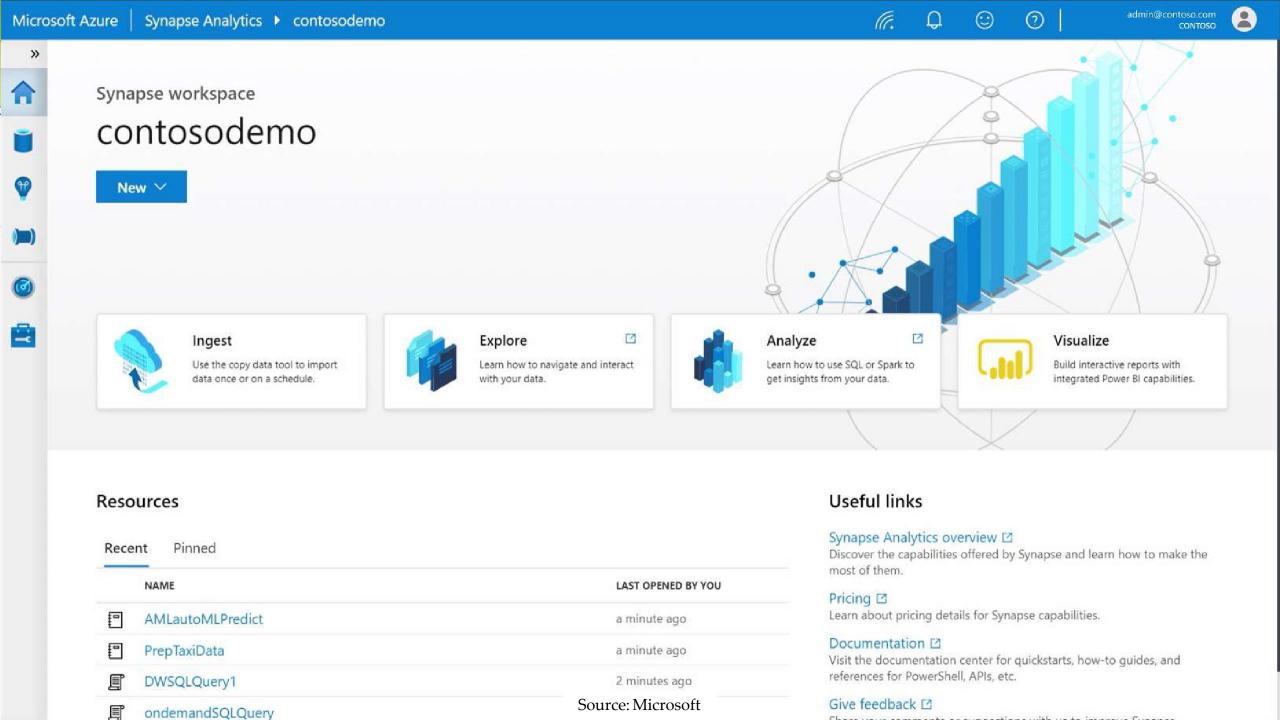
- 1. Create SQL Server
- 2. Create Synapse SQL Pool (Azure SQL Data Warehouse)
- 3. Pause/Resume Compute Node
- 4. Create Firewall Rule
- 5. Connect with Microsoft SQL Server Management Studio





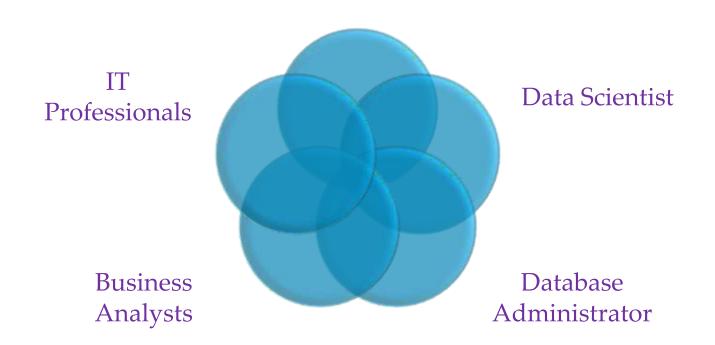
# **Azure Synapse Studio**





Unified experience for all data professionals







Thank you!