

Azure Synapse Analytics Service

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Azure
Synapse
Analytics

Introduction

Why Warehousing in Cloud

Azure Synapse Service – a Game Changer

Traditional vs Modern DW Architecture

Modern vs Synapse DW Architecture

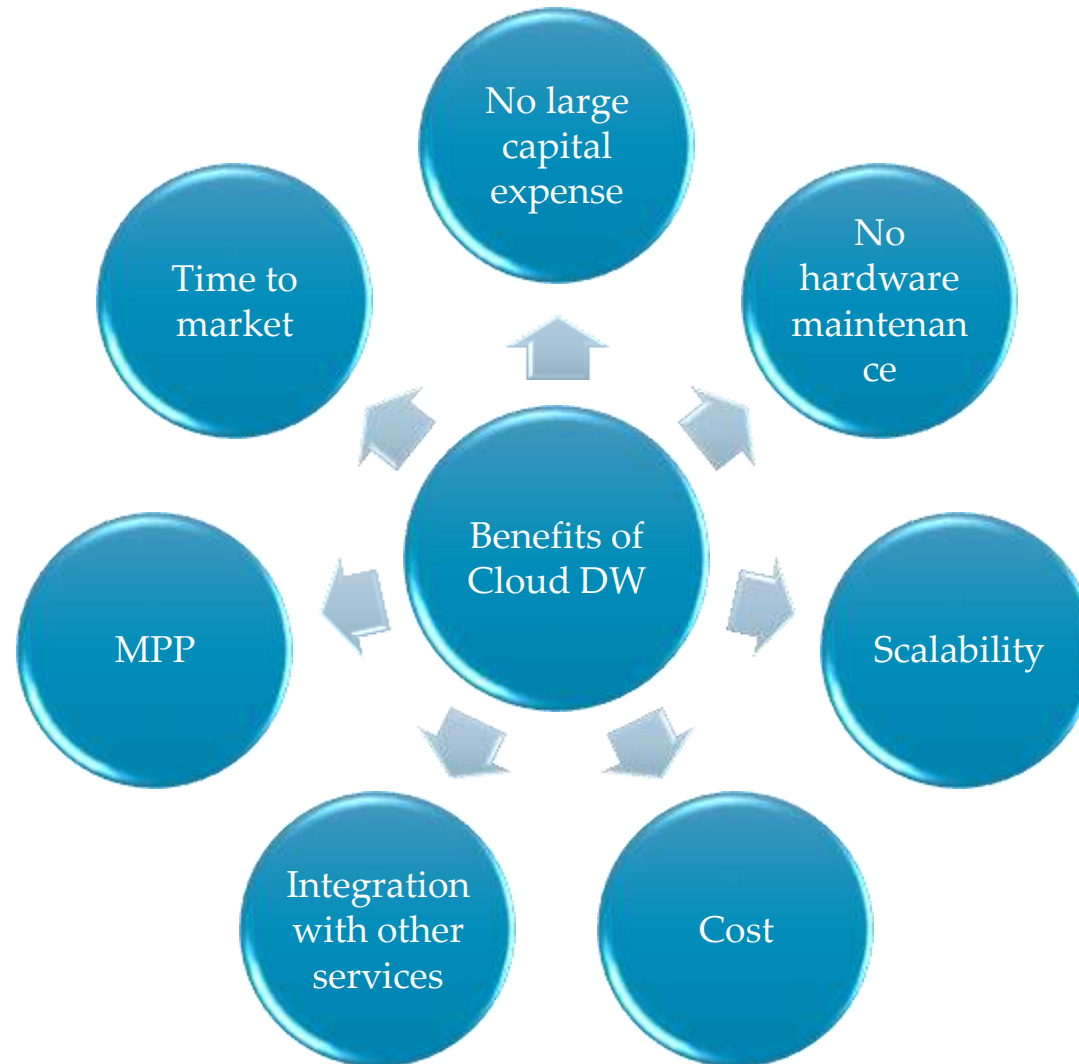
Azure Synapse Studio – Unified Experience

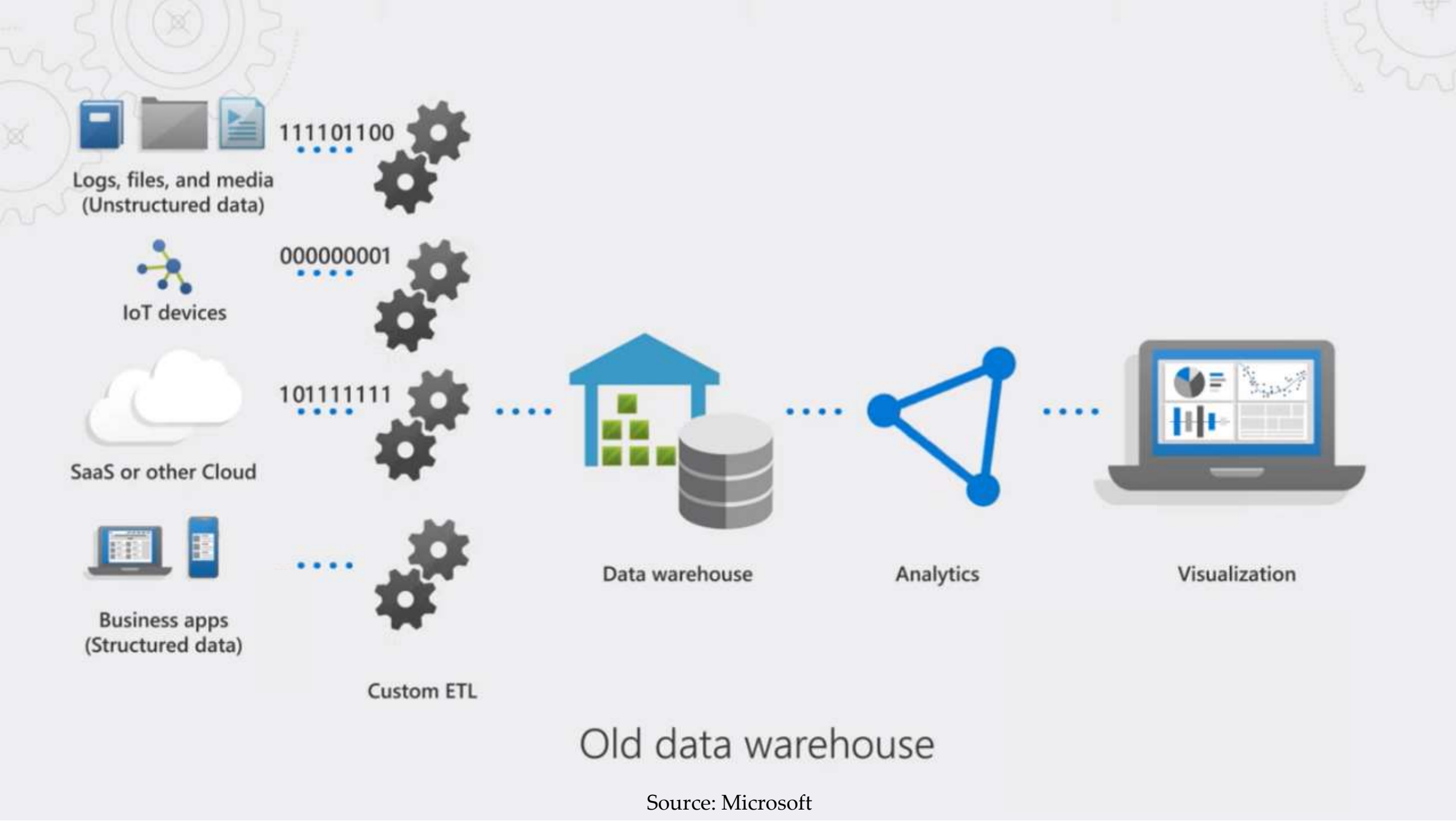
Demo – Provision, Scale, Pause, Firewall settings



**Azure
Synapse
Analytics**

Why Warehousing in Cloud?



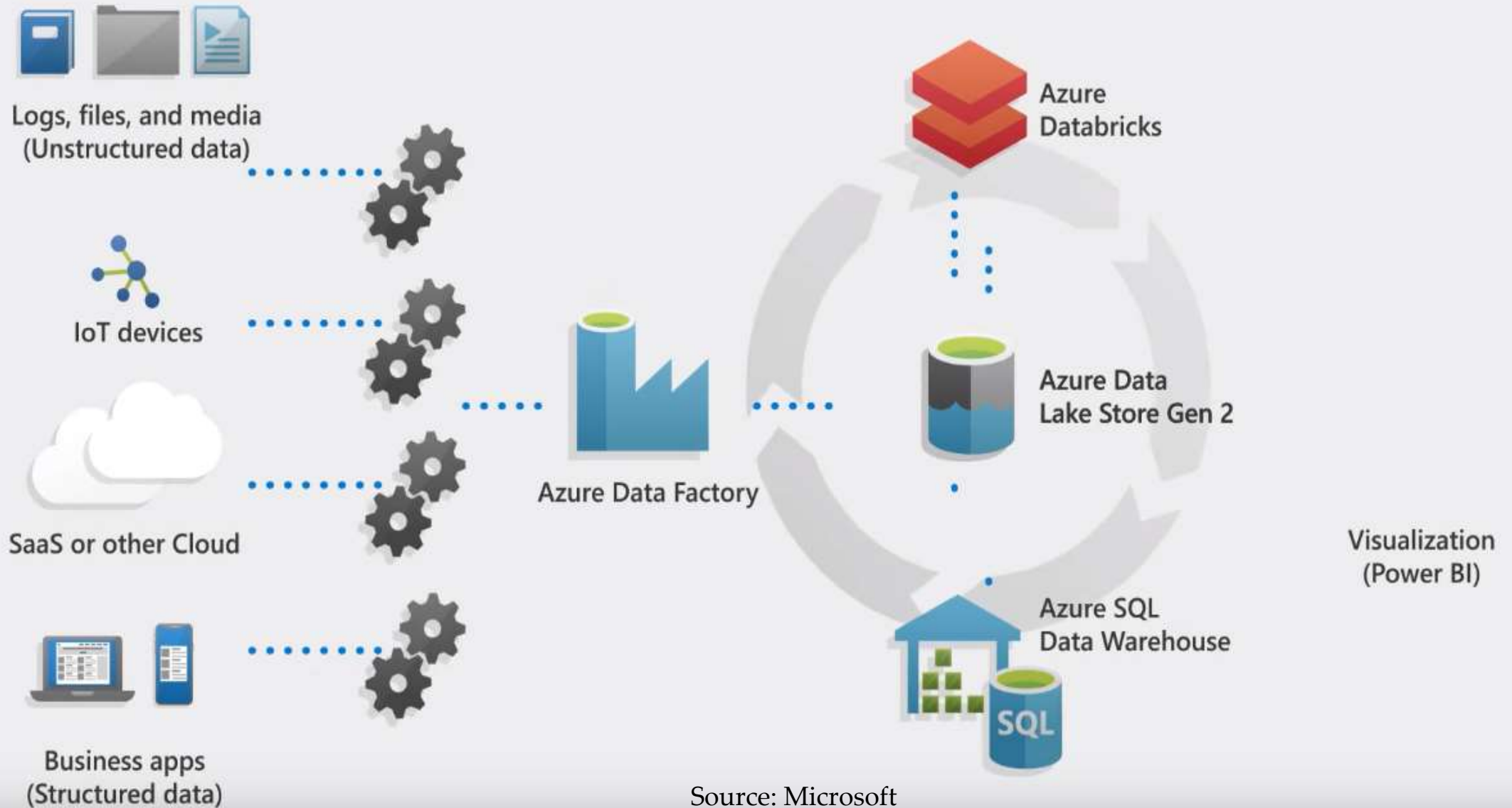


Modern Data Warehousing



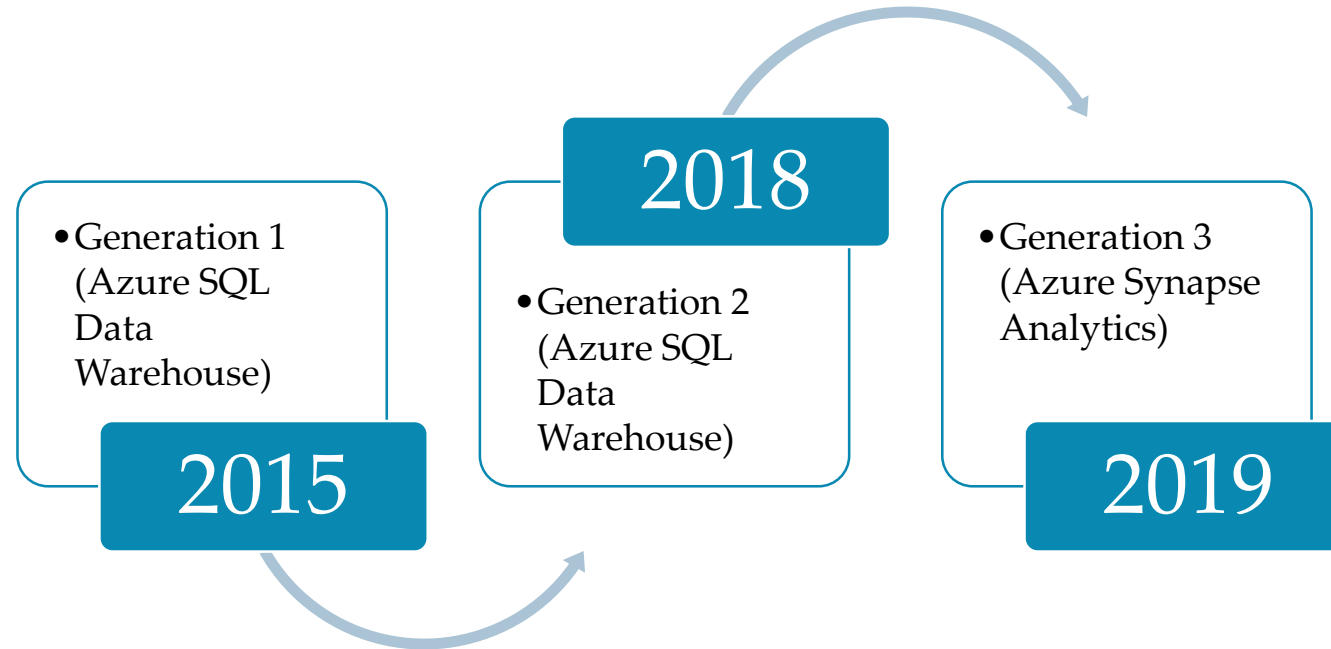
Source: Microsoft

Modern Data Warehouse



Source: Microsoft

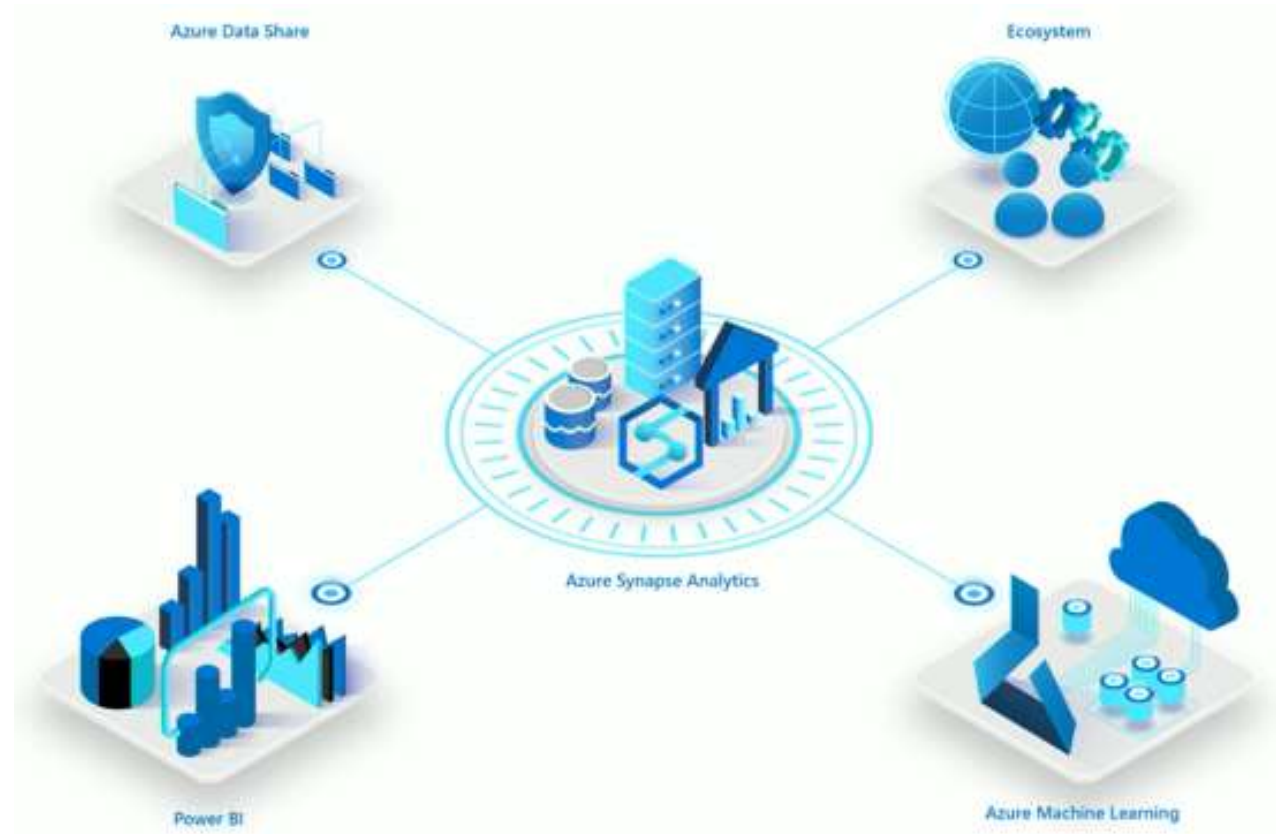
Azure SQL Data warehouse



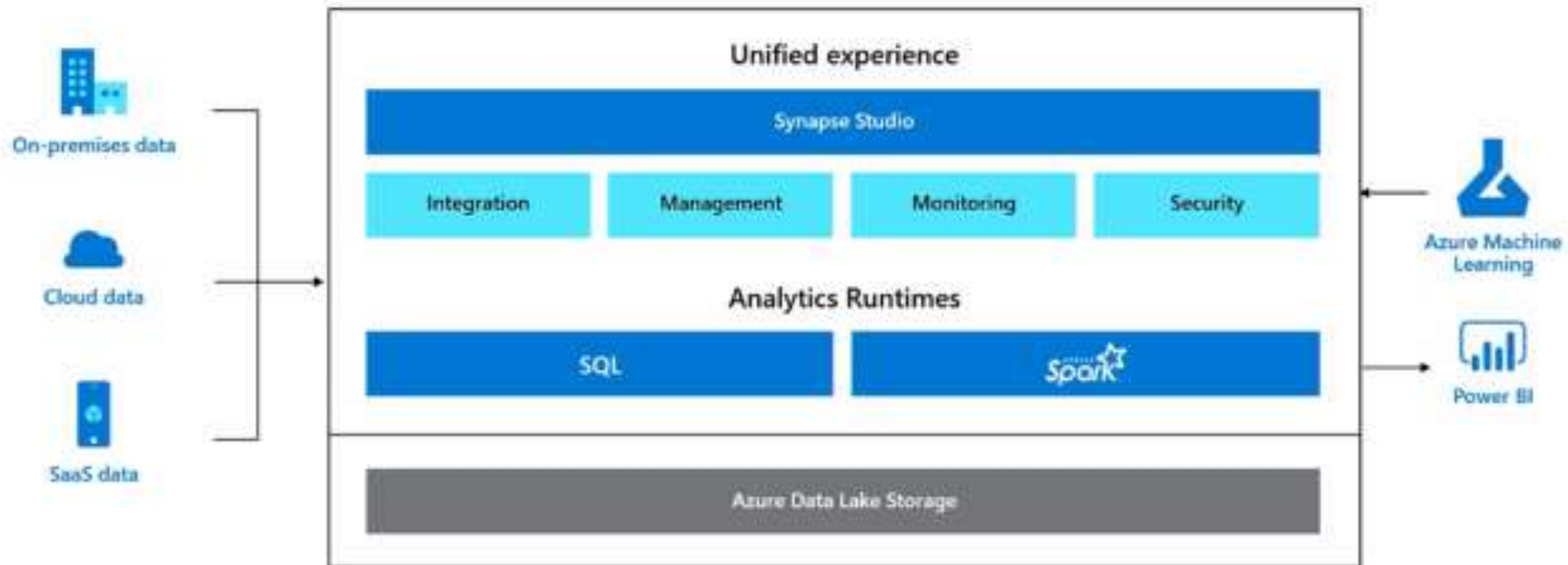
Azure Synapse Analytics

"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."

Azure Synapse Analytics



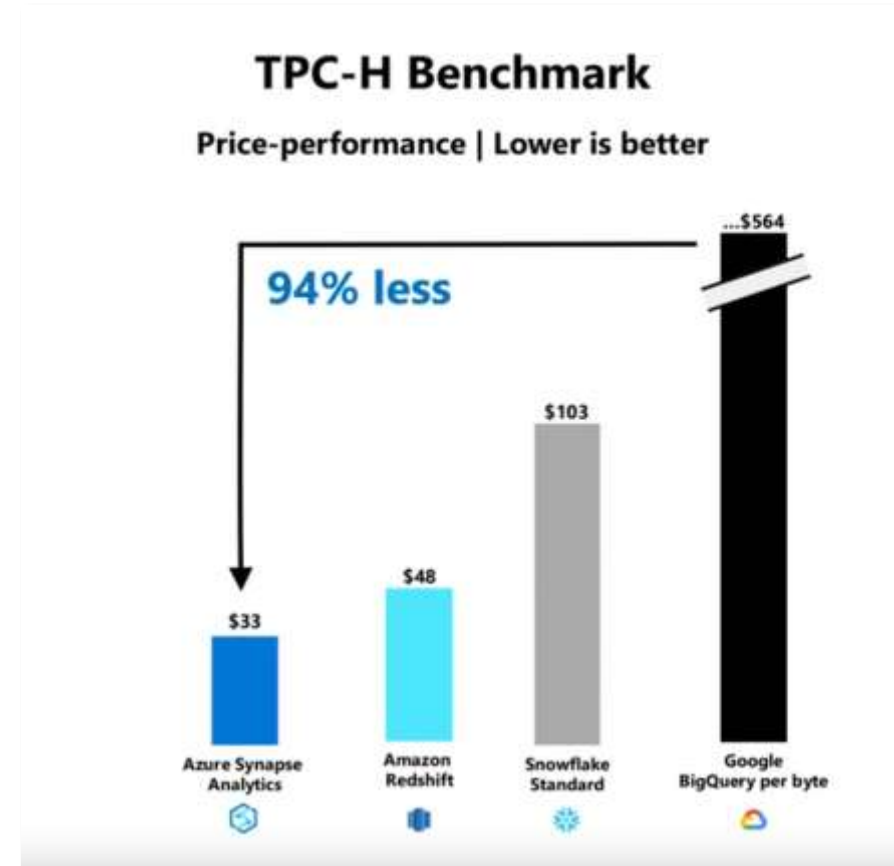
Azure Synapse Analytics



Unparalleled price-performance

Up to 14x faster

Costs 94% less than other cloud providers



Azure Synapse



**Structured and
unstructured data**



**Data warehousing and
big data analytics**



Cloud-native

Azure Synapse Analytics



Limitless Scale



Powerful Insight



Unified Experience



Security

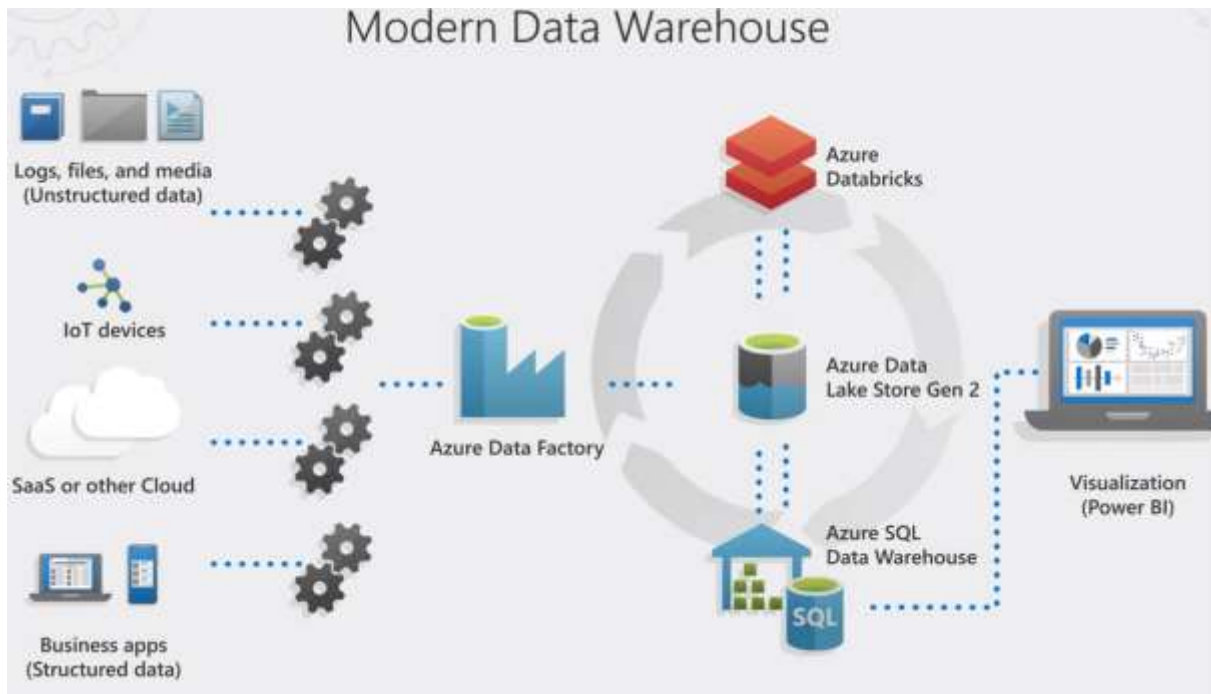


Code free data
orchestration

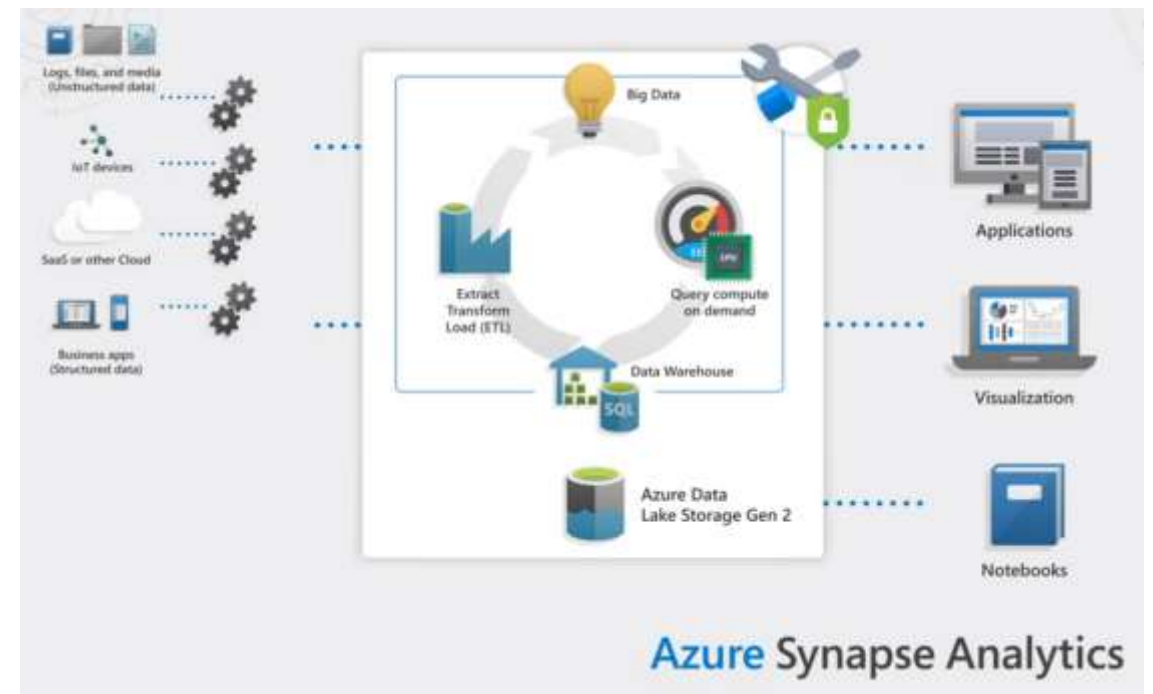


Choice of Language

Modern vs Synapse Architecture



Modern Data Warehouse Architecture



Synapse Analytics Architecture



Logs, files, and media
(Unstructured data)



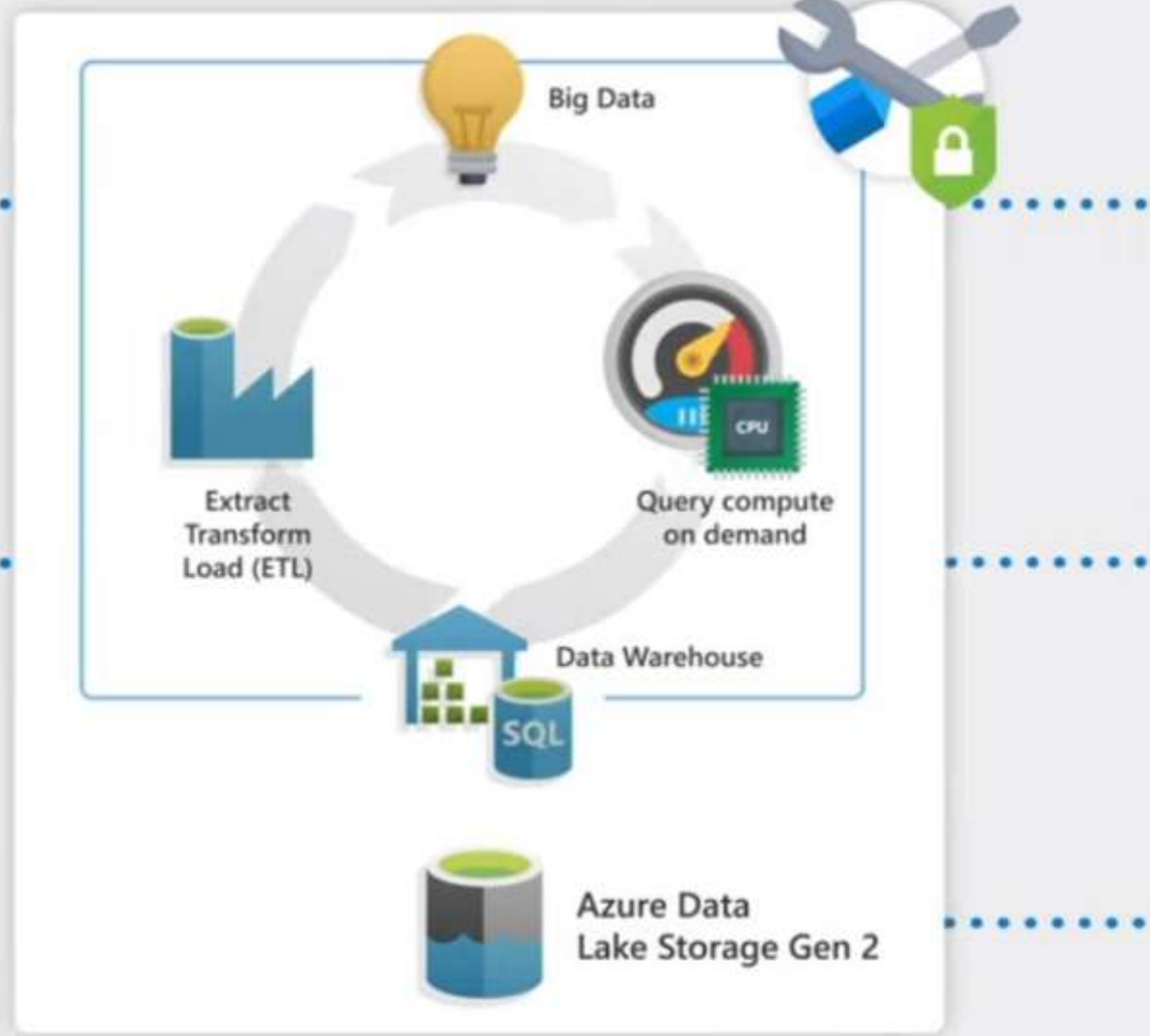
IoT devices



SaaS or other Cloud



Business apps
(Structured data)



Applications

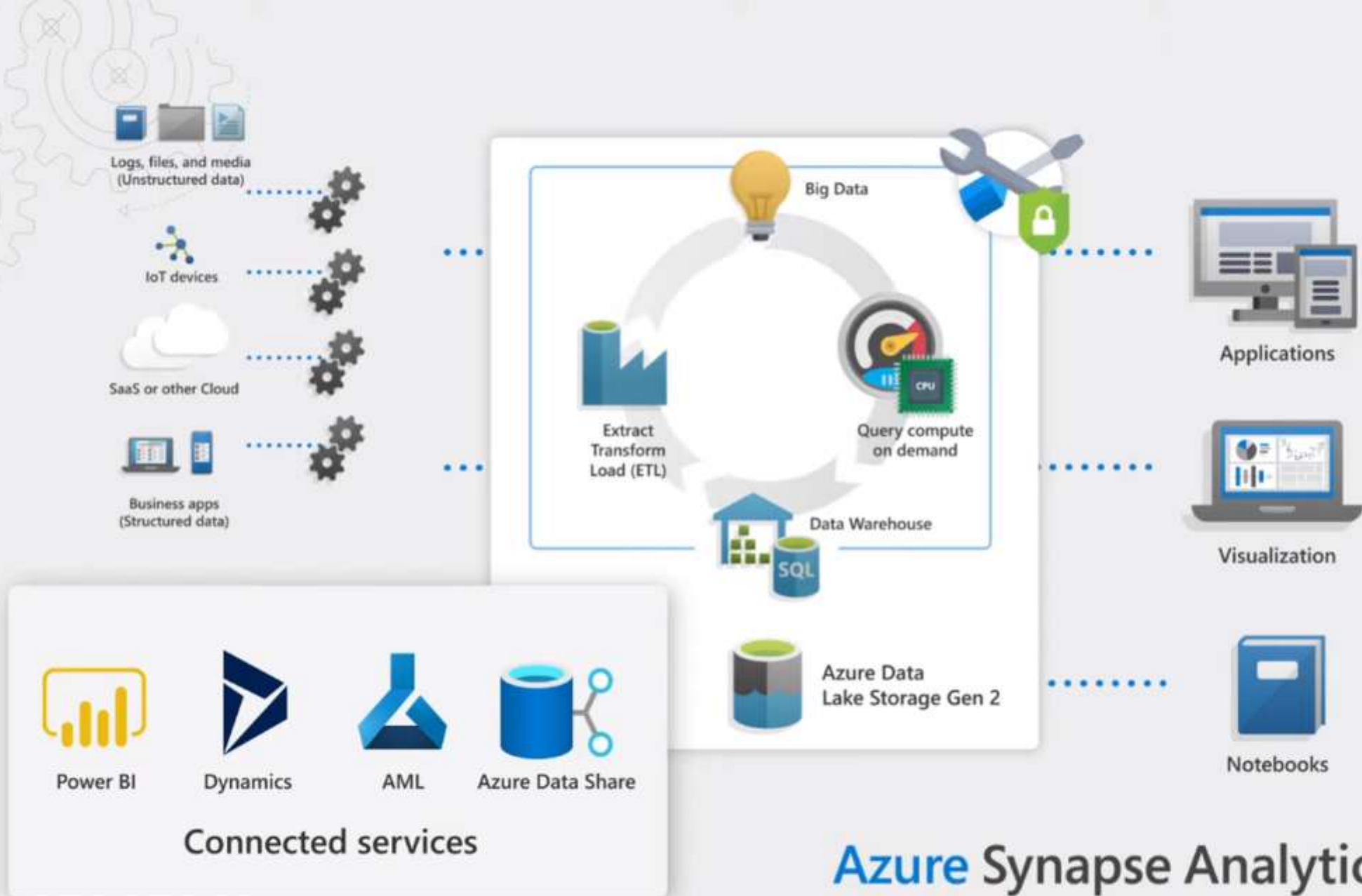


Visualization



Notebooks

Azure Synapse Analytics



Azure Synapse Analytics



On-premises data

Oracle, SQL, Teradata,
fileshares, SAP



Cloud data

Azure, AWS, GCP



SaaS data

Salesforce, Dynamics



Azure Synapse Analytics

STORE

Azure Data Lake Storage

VISUALIZE



Power BI

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
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Azure Synapse Studio



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»

Home

Storage

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Monitoring


Security

Tools

Synapse workspace


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New ▾




Ingest

Use the copy data tool to import data once or on a schedule.




Explore

Learn how to navigate and interact with your data.




Analyze

Learn how to use SQL or Spark to get insights from your data.







Visualize

Build interactive reports with integrated Power BI capabilities.




Resources

Recent Pinned


NAME		LAST OPENED BY YOU
 AMLautoMLPredict		a minute ago
 PrepTaxiData		a minute ago
 DWSQLQuery1		2 minutes ago
 ondemandSQLQuery		

Source: Microsoft


Useful links

[Synapse Analytics overview](#) 


Discover the capabilities offered by Synapse and learn how to make the most of them.

[Pricing](#) 

Learn about pricing details for Synapse capabilities.

[Documentation](#) 

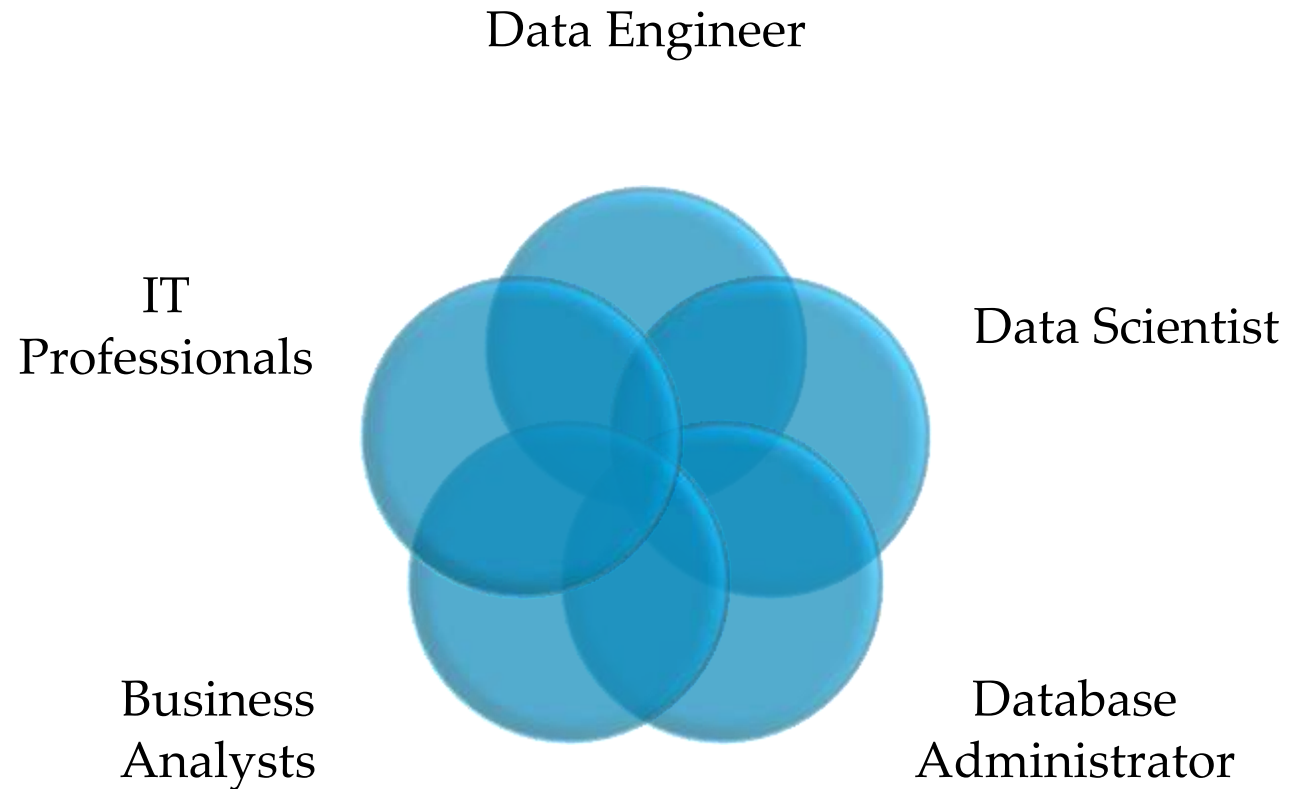
Visit the documentation center for quickstarts, how-to guides, and references for PowerShell, APIs, etc.

[Give feedback](#) 

Share your comments or suggestions with us to improve Synapse.

Azure Synapse Analytics

Unified experience for all data professionals



Summary

Advantages of Cloud Warehousing

Synapse Analytics - advantages

Why Synapse Analytics is Game changer in Cloud Analytics

Traditional vs Modern DW Architecture

Modern vs Synapse DW Architecture

Synapse Studio – Unified experience

Demo – Provision, Pause, Scale, Firewall settings etc.



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