

Azure Synapse Analytics Service



Azure
Synapse
Analytics

Azure Data Share



Ecosystem



Azure Synapse Analytics



Power BI



Azure Machine Learning



Introduction

Why Warehousing in Cloud

Azure Synapse Service – a Game Changer

Traditional vs Modern DW Architecture

Modern vs Synapse DW Architecture Azure

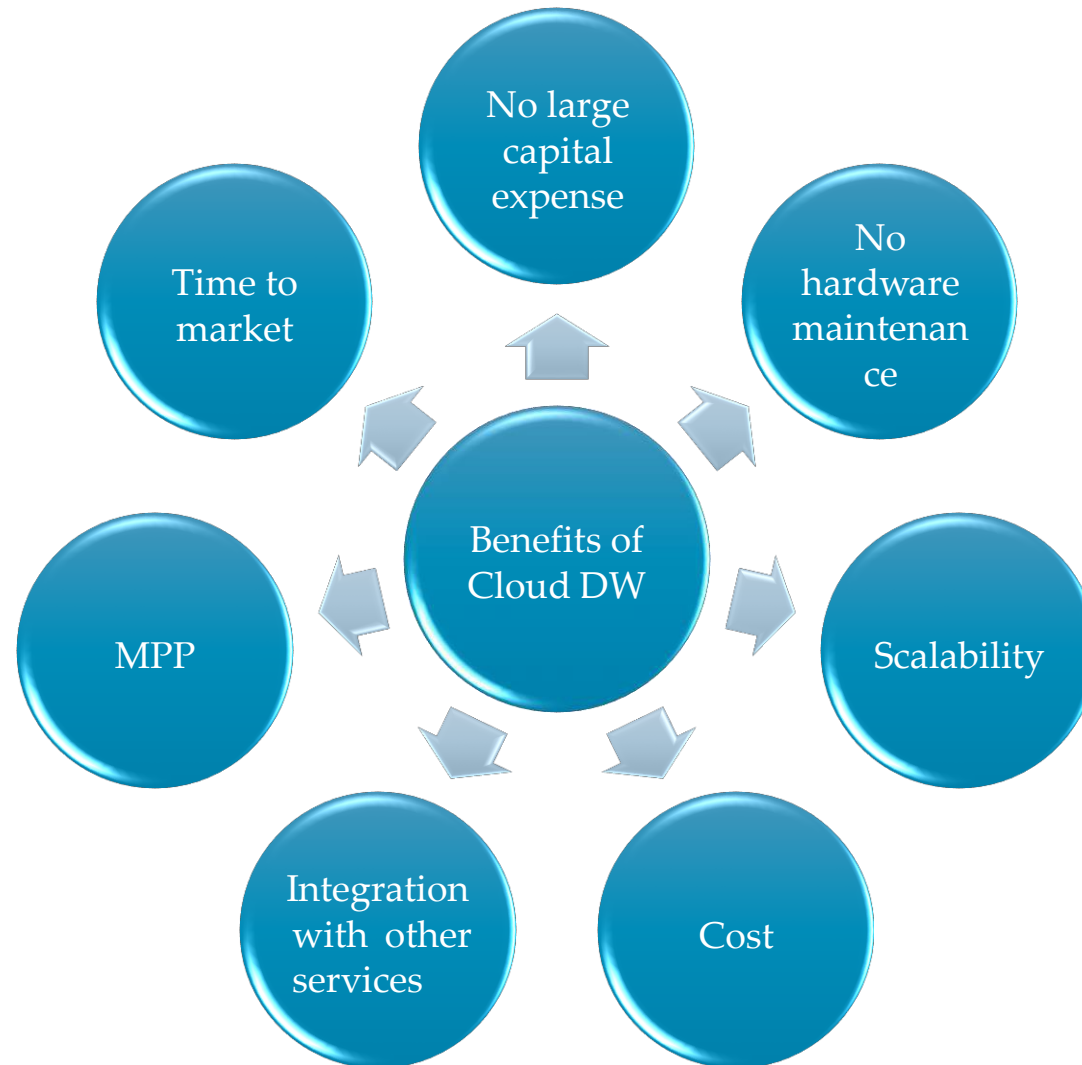
Synapse Studio – Unified Experience

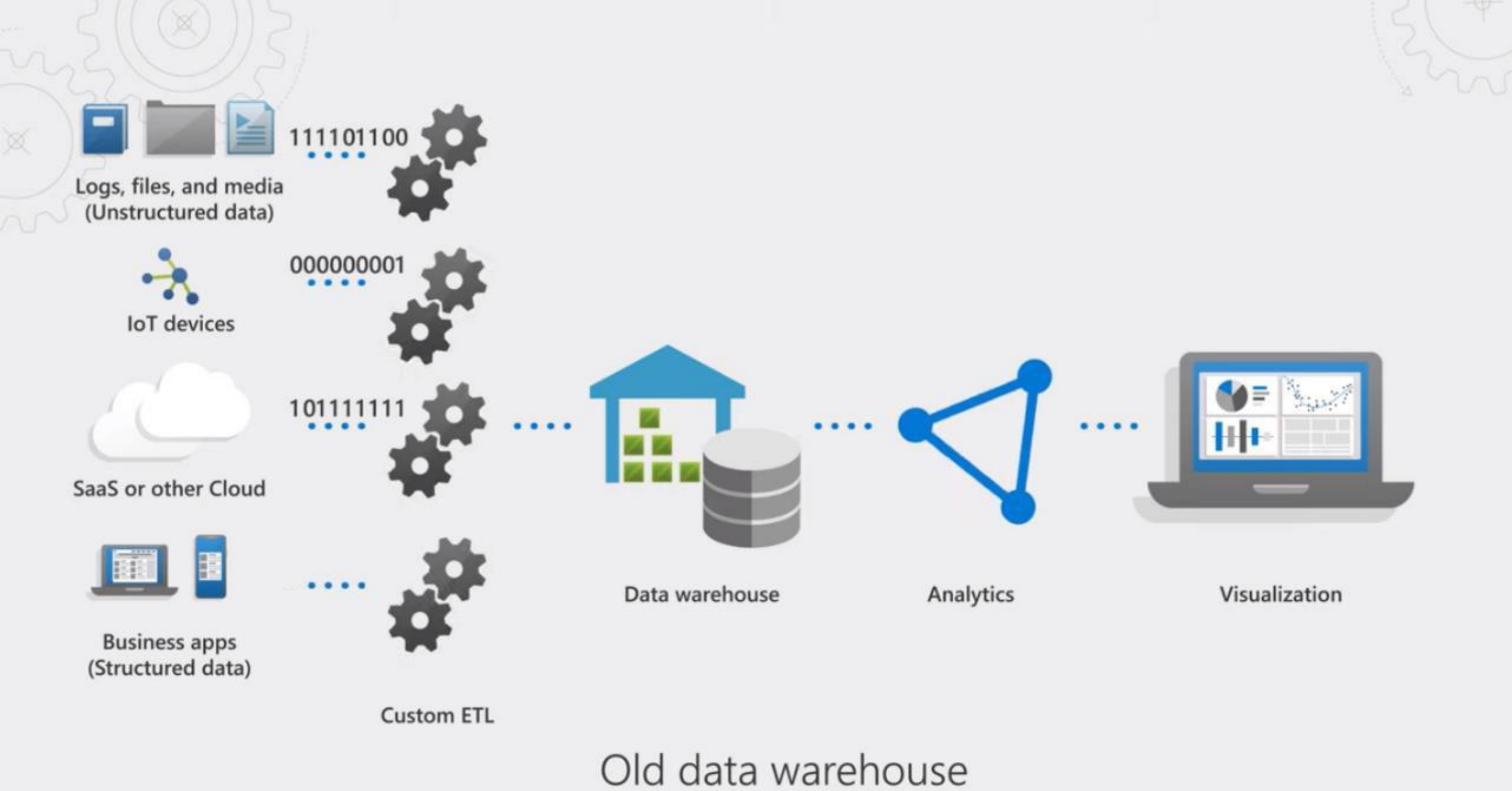
Demo – Provision, Scale, Pause, Firewall settings



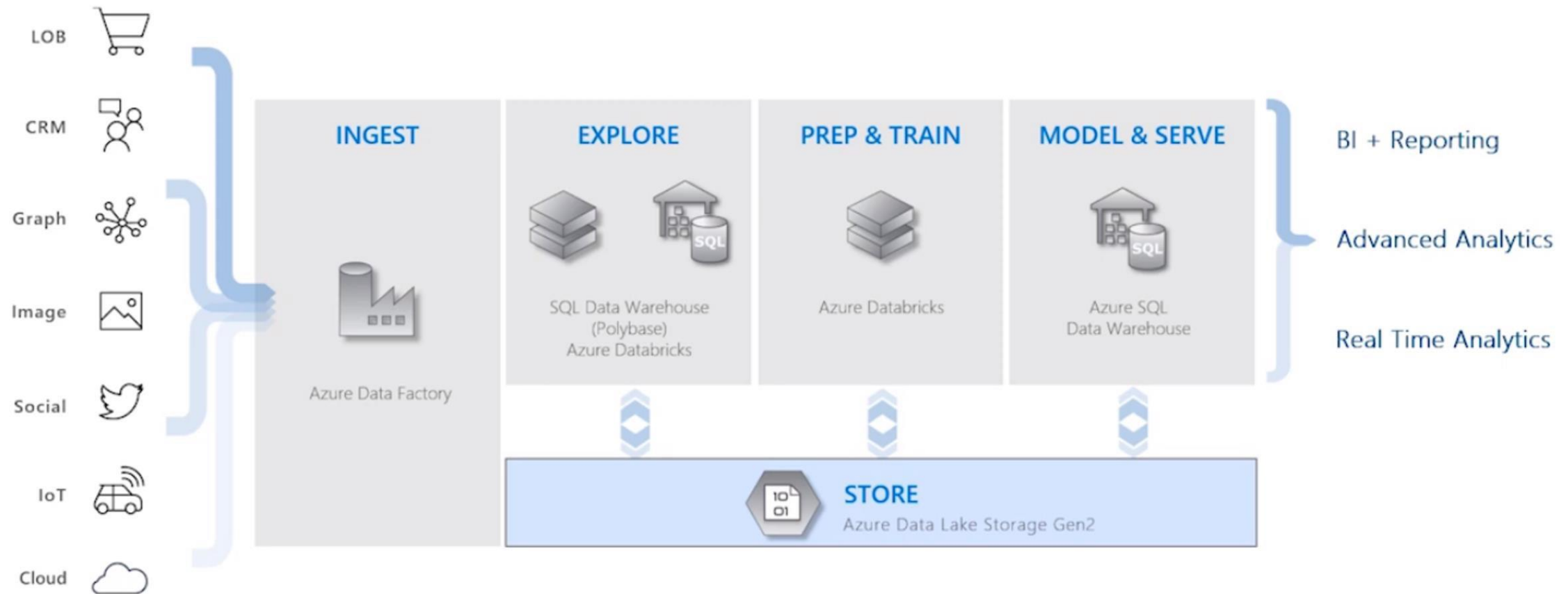
Azure
Synapse
Analytics

Why Warehousing in Cloud?



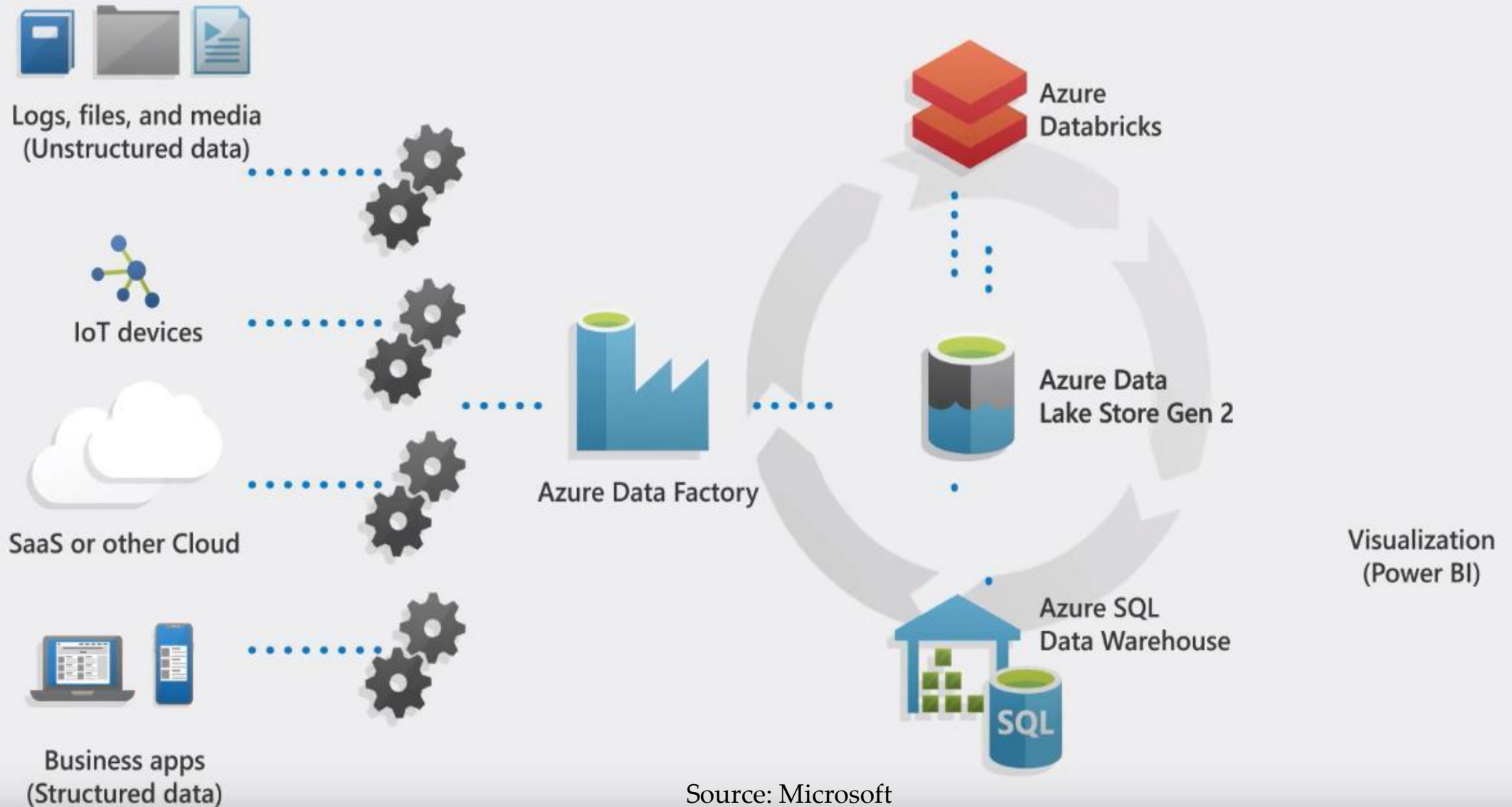


Modern Data Warehousing



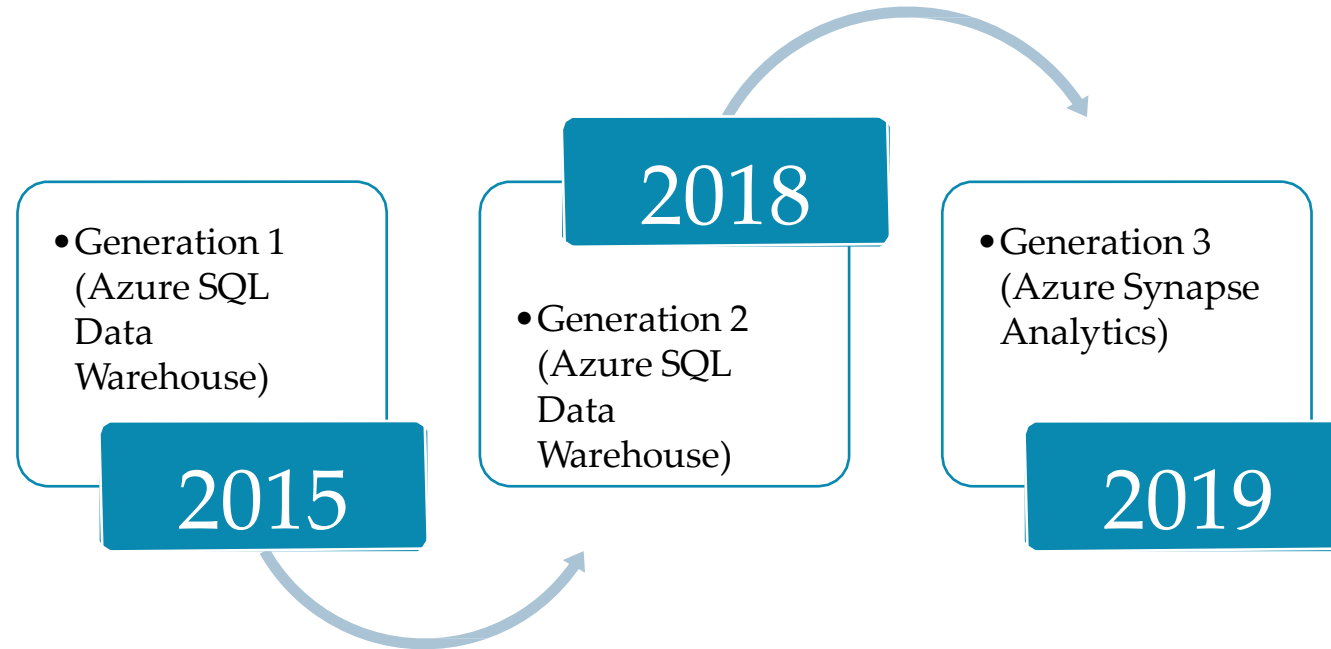
Source: Microsoft

Modern Data Warehouse



Source: Microsoft

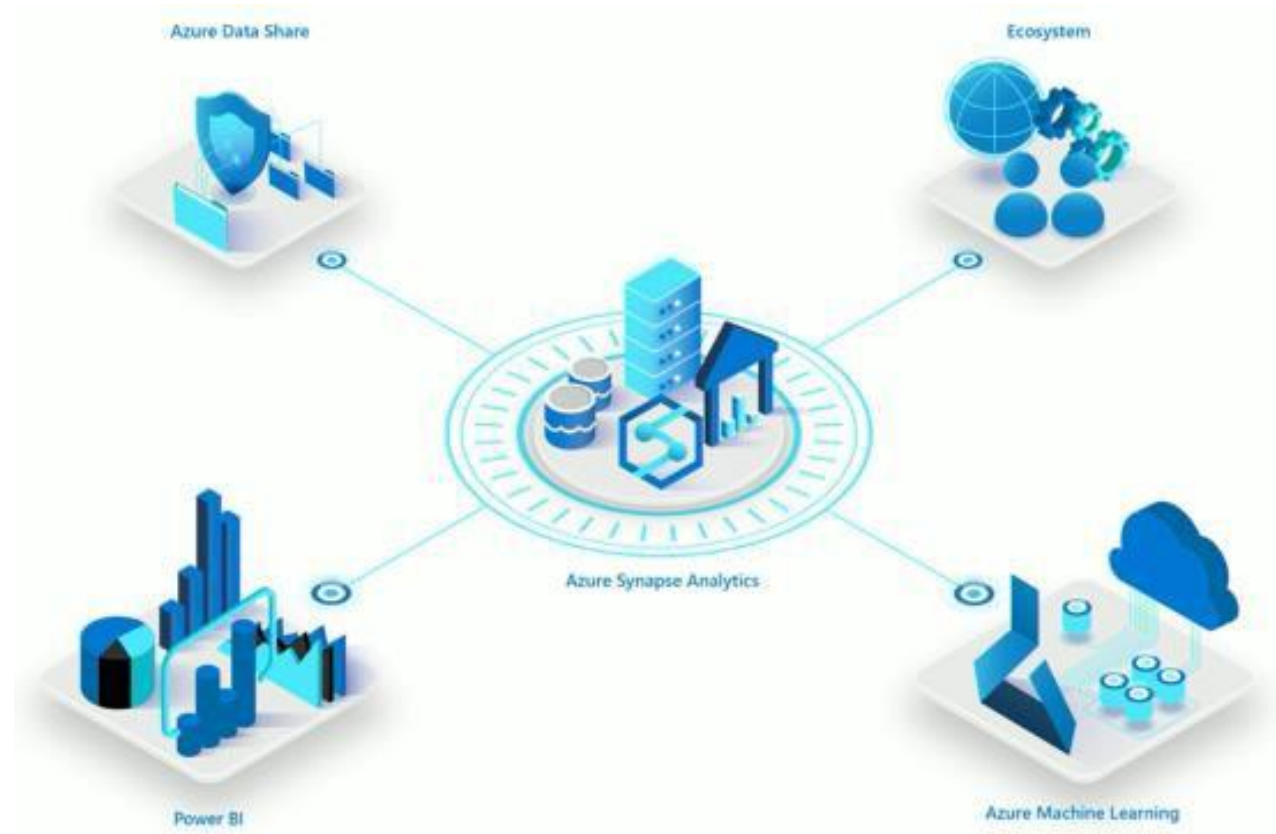
Azure SQL Data warehouse



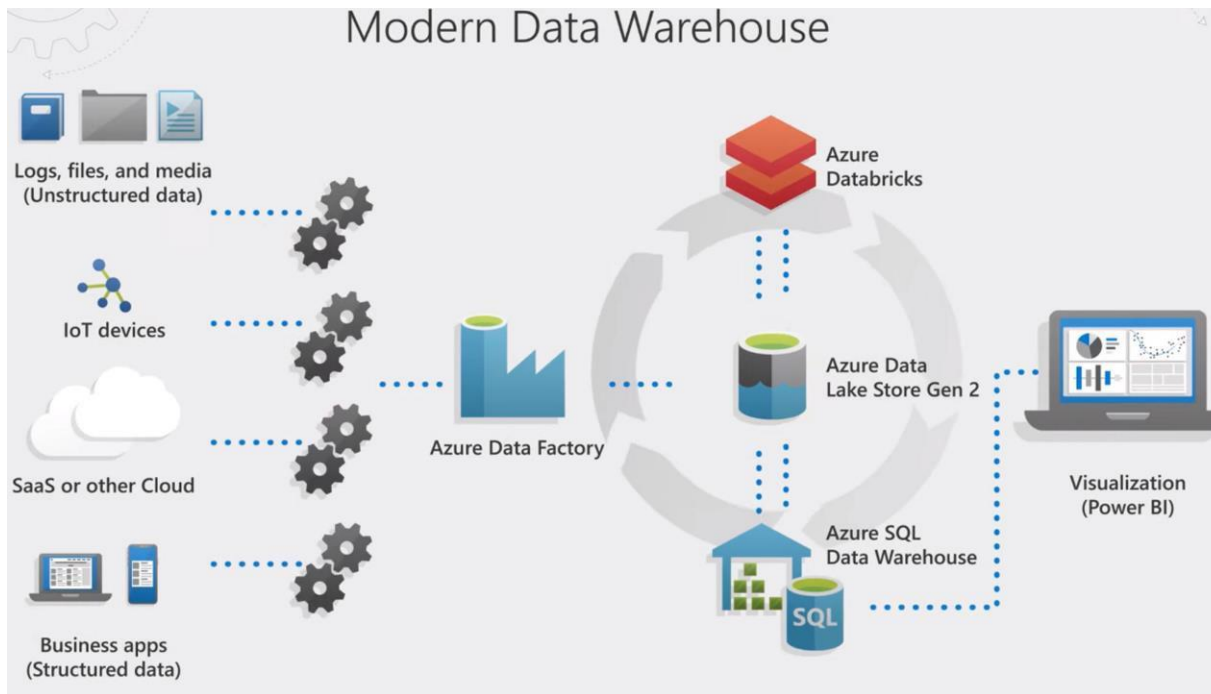


Azure Synapse Analytics

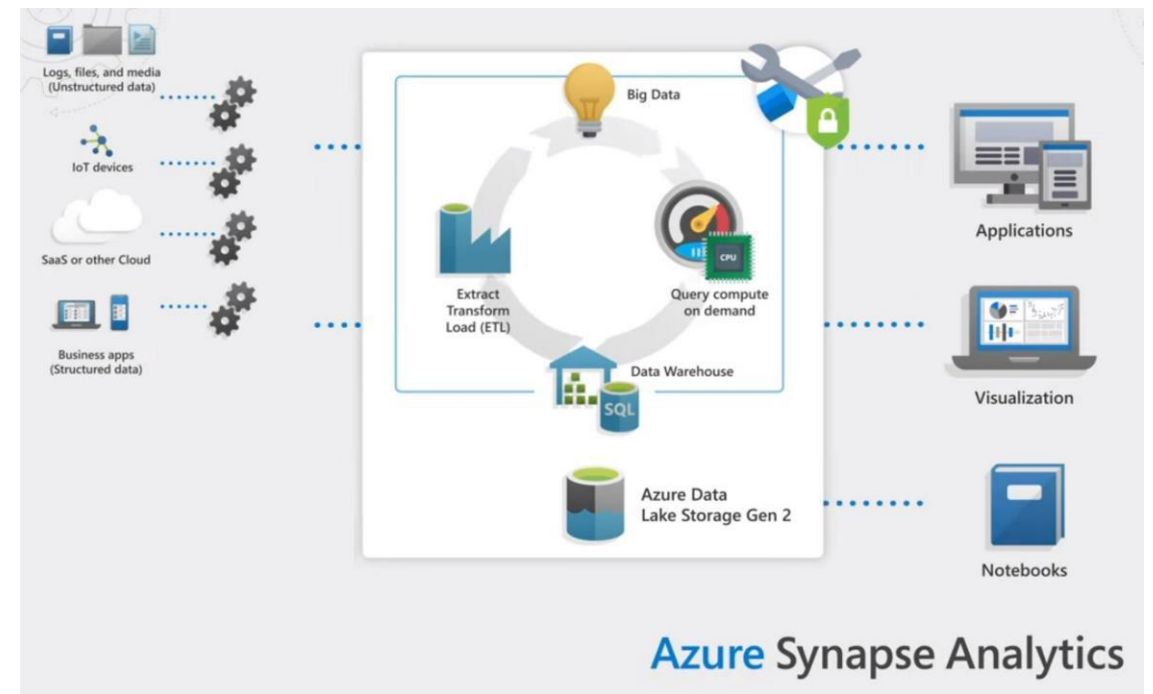
Azure Synapse Analytics



Modern vs Synapse Architecture



Modern Data Warehouse Architecture



Synapse Analytics Architecture



Logs, files, and media
(Unstructured data)



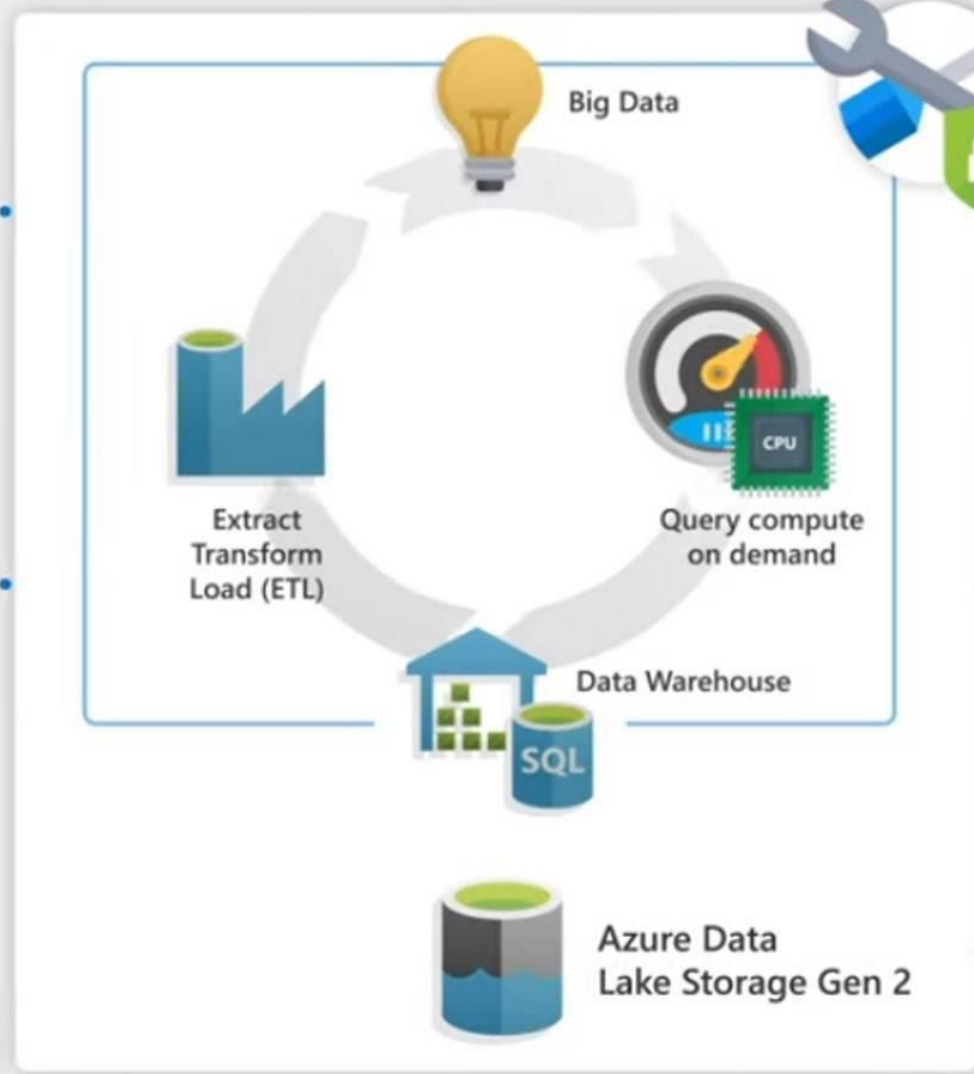
IoT devices



SaaS or other Cloud



Business apps
(Structured data)



Applications

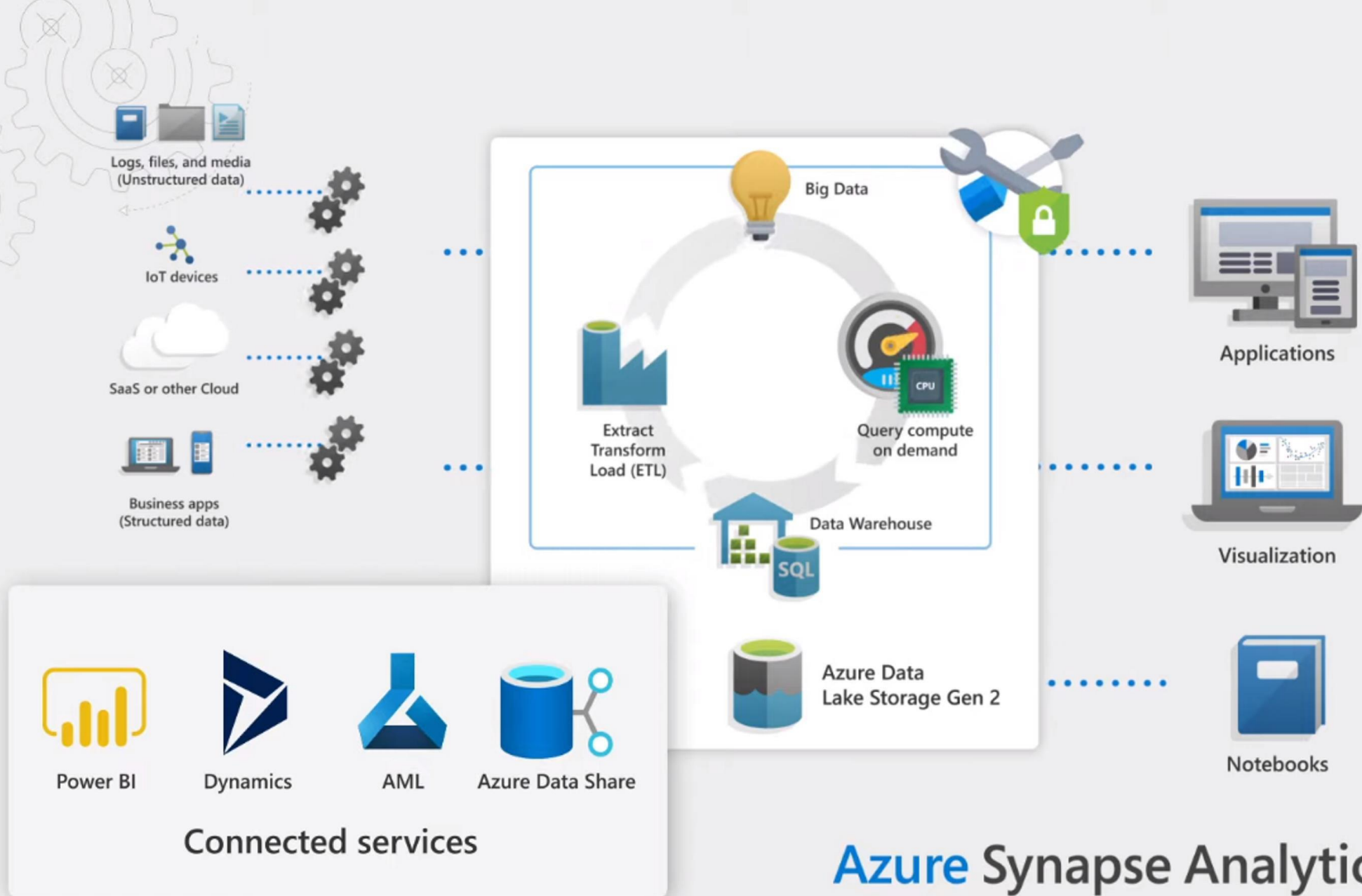


Visualization



Notebooks

Azure Synapse Analytics



Azure Synapse Analytics

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



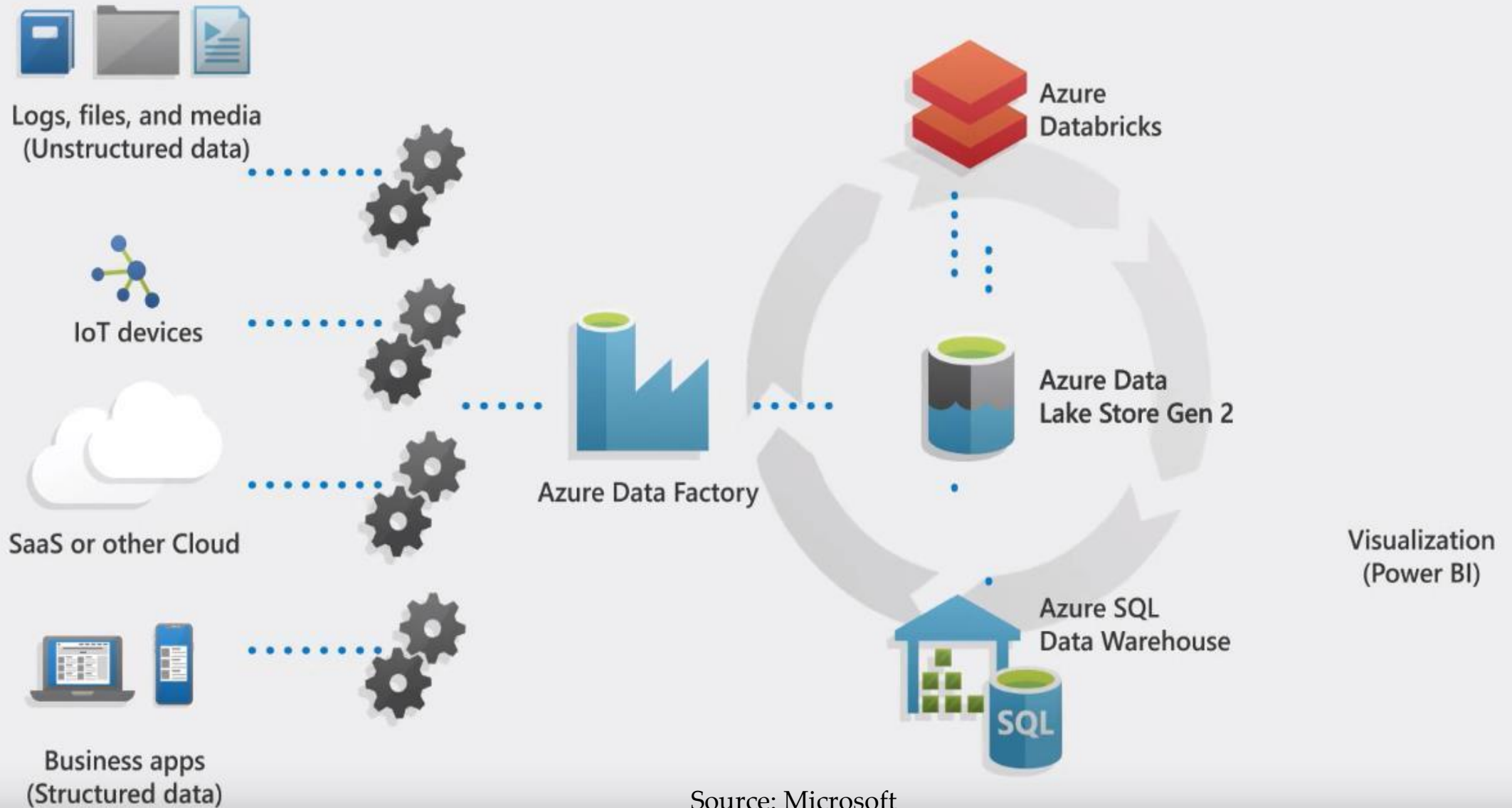
Azure
Synapse
Analytics



**Azure
Synapse
Analytics**



Modern Data Warehouse



Source: Microsoft



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(Unstructured data)



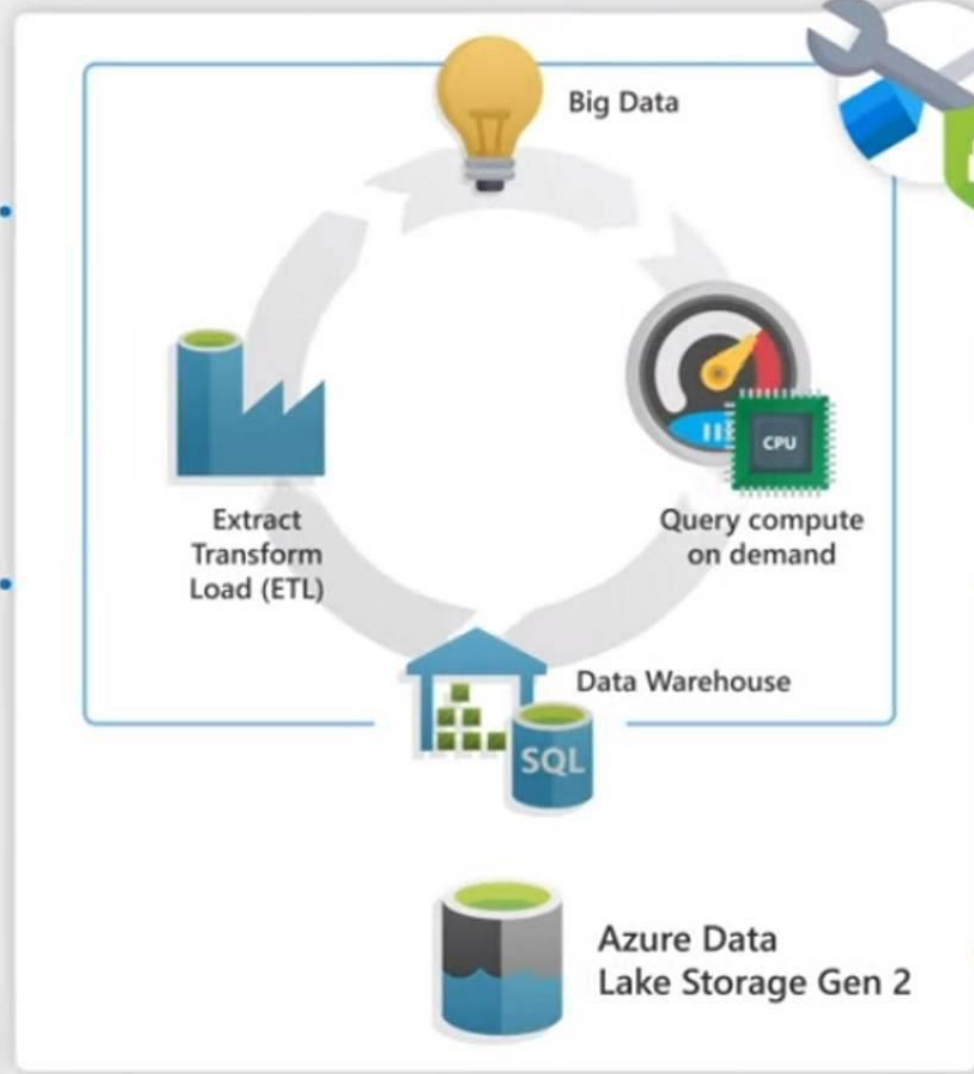
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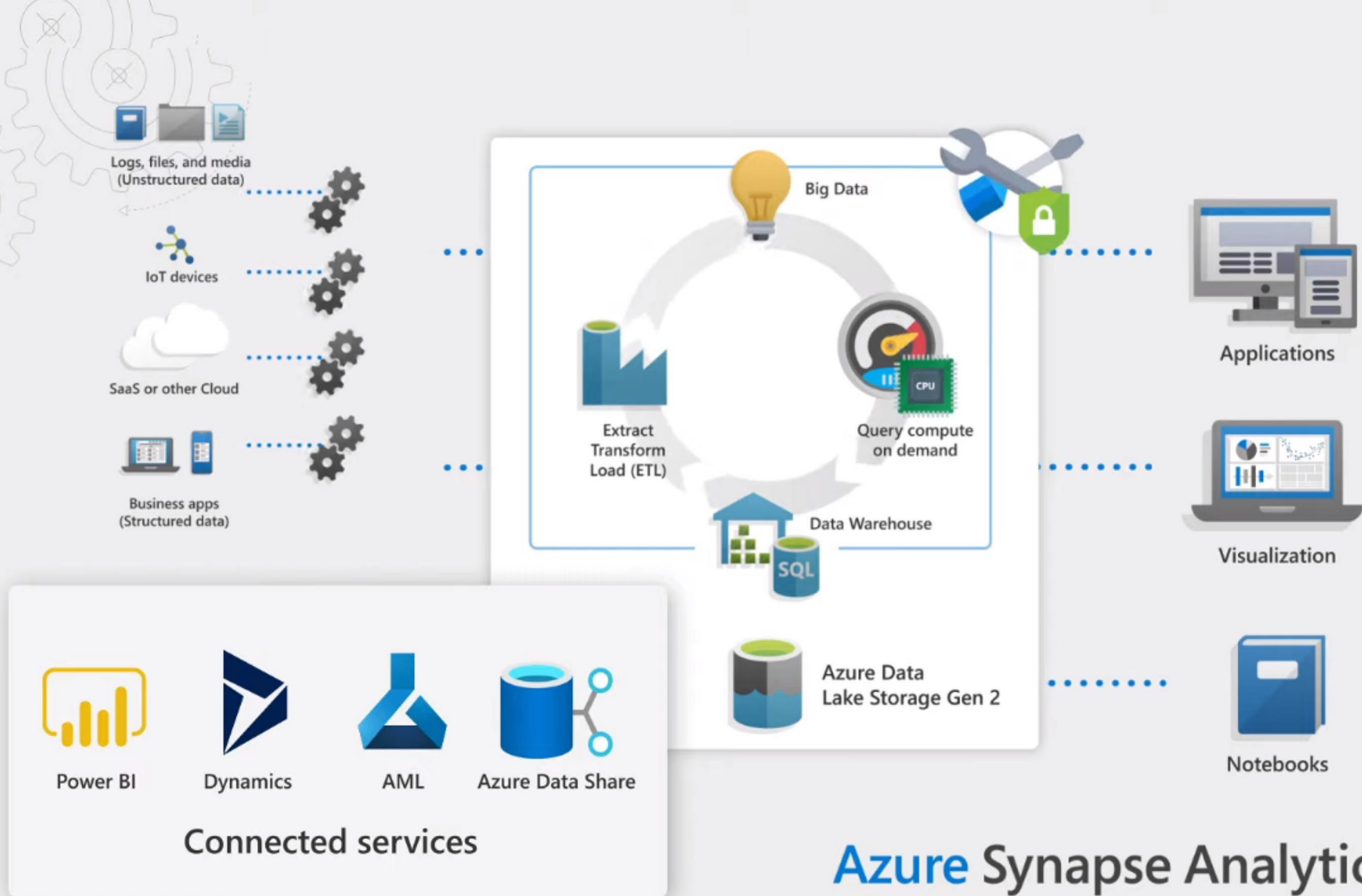


Visualization



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Azure Synapse Analytics

Azure Synapse MPP Architecture

DWU	Loading 3 Tables	Ran Report
100	15	20
500	3	4

