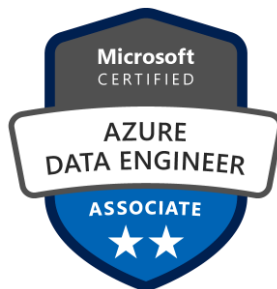


The latest of
Data Platform Architecture
on Microsoft Azure

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- Microsoft P-TSP



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[Cloud Analytics](#)



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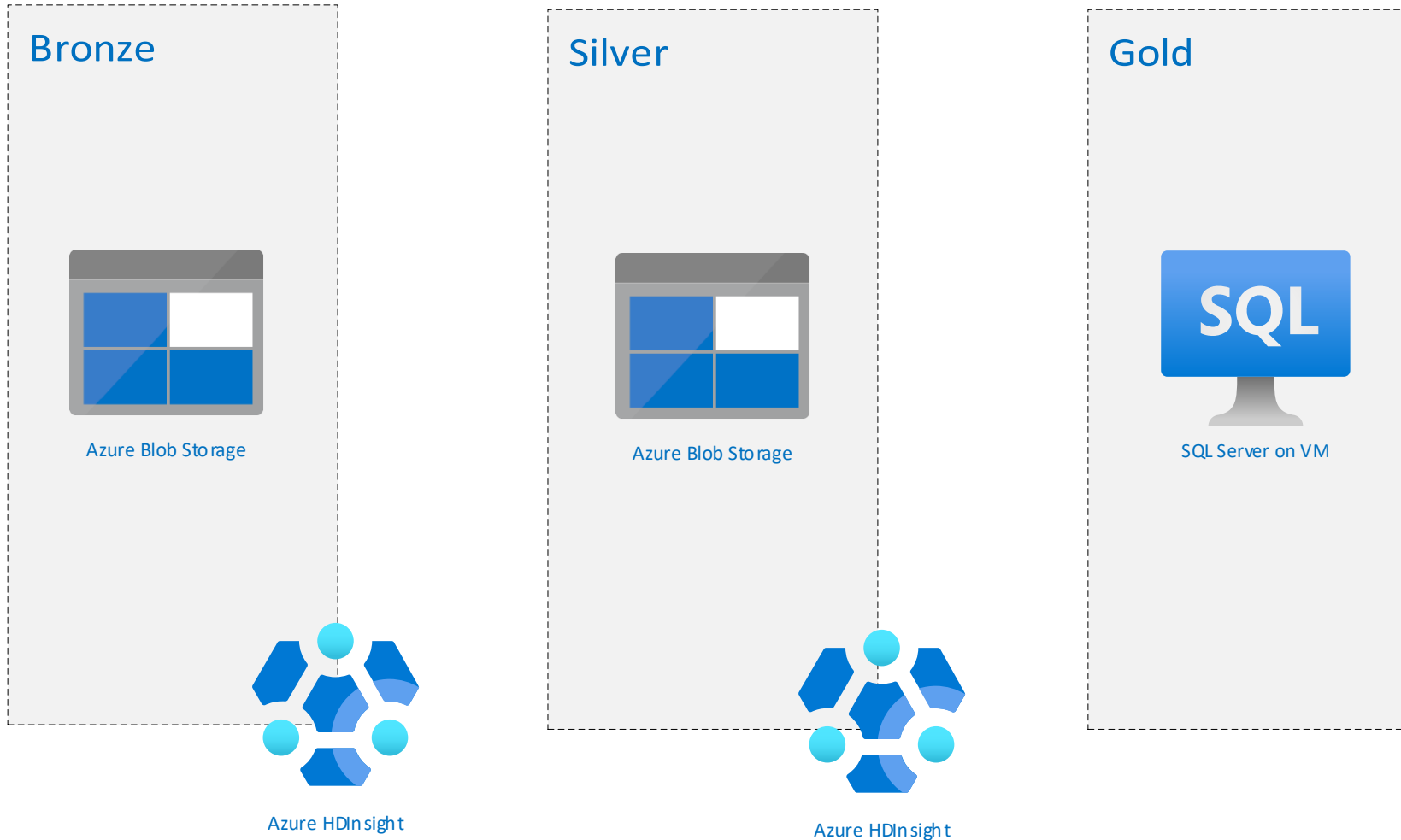
Agenda

- Data Lakehouse
- Demos
- Bonus: Tooling update

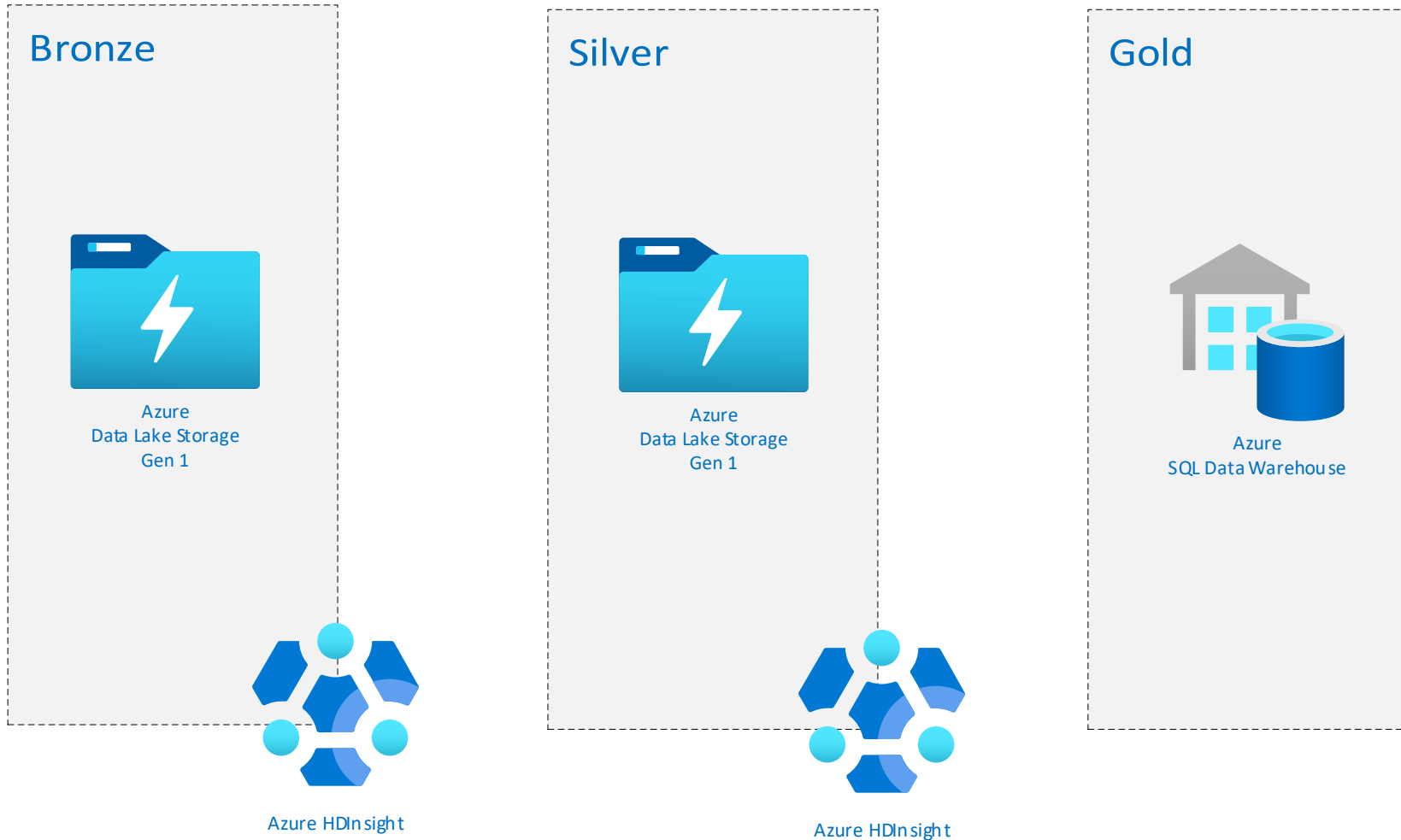
Brief history

- 1980s: Data Warehouse
- 2000s: Data Lake
- 2020s: Data Lakehouse

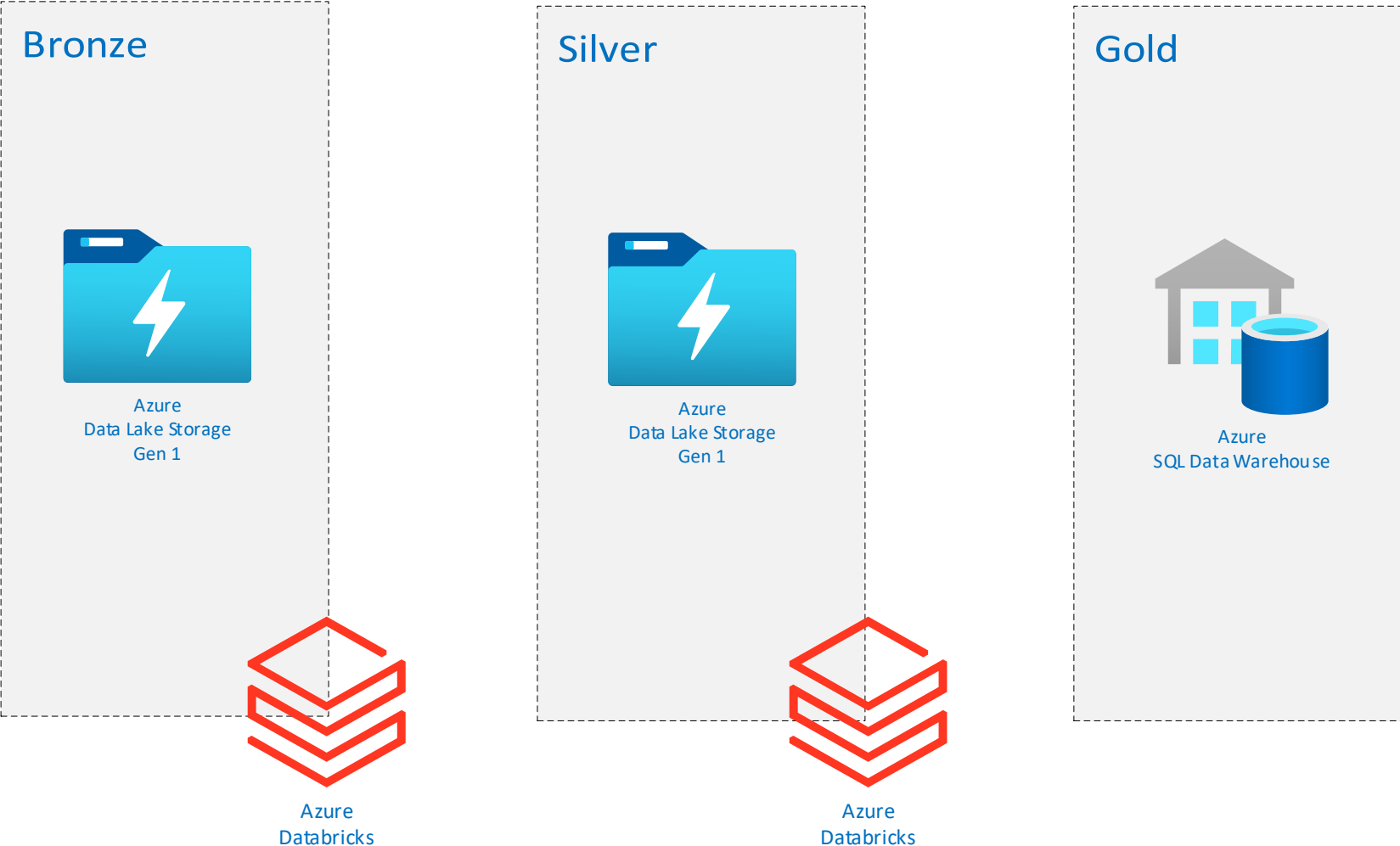
Architecture 2014



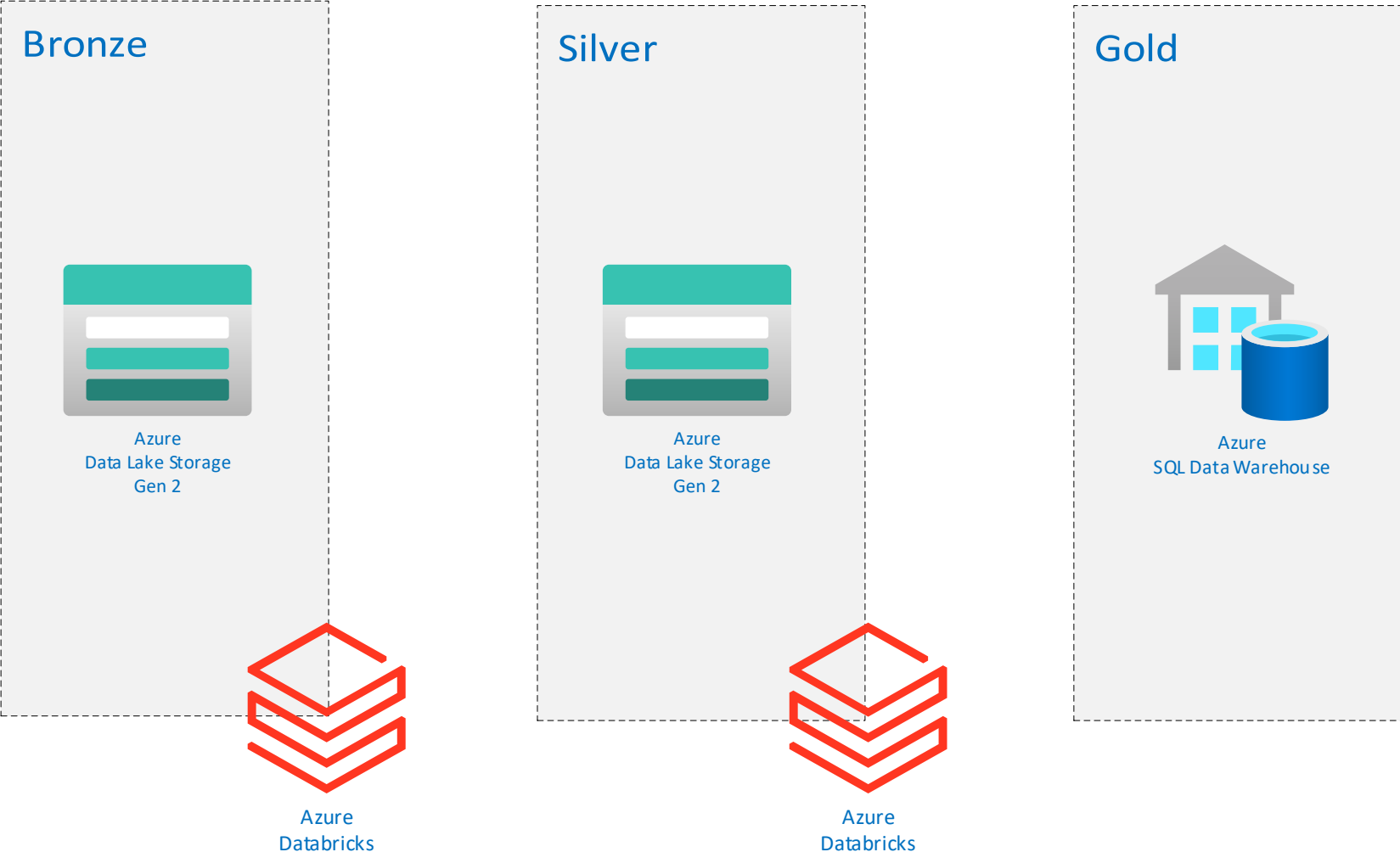
Architecture 2016



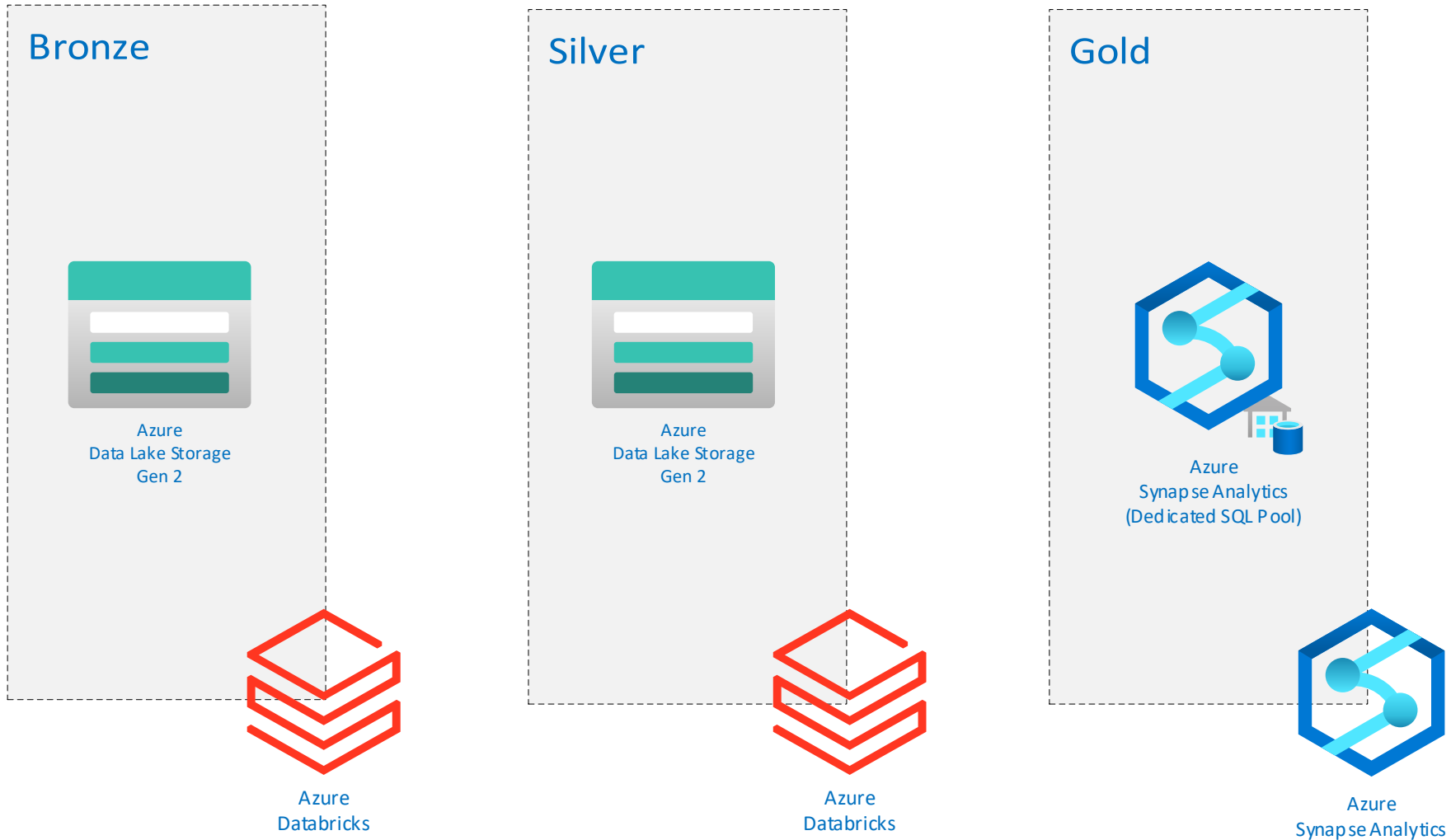
Architecture 2018

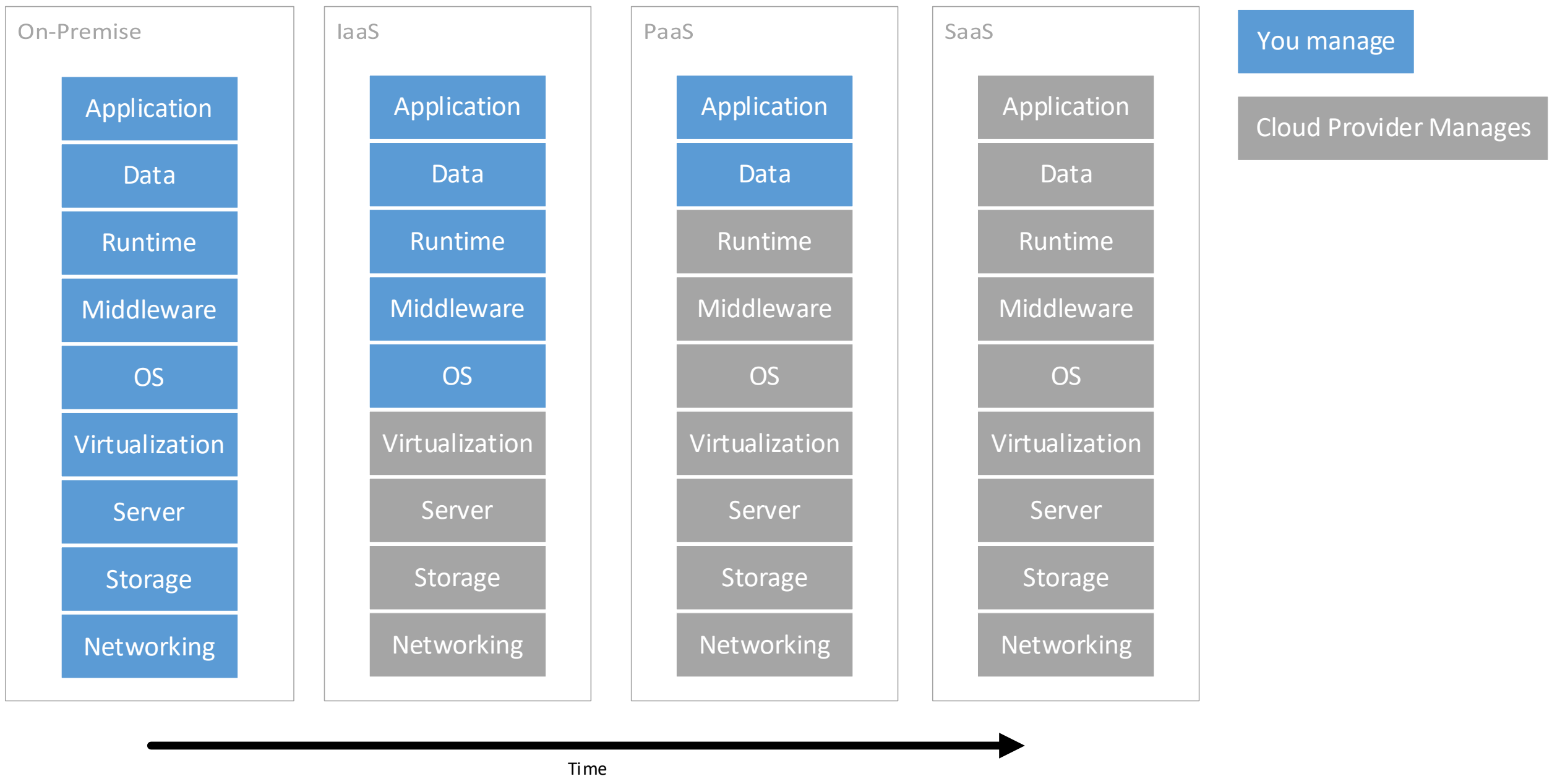


Architecture 2019



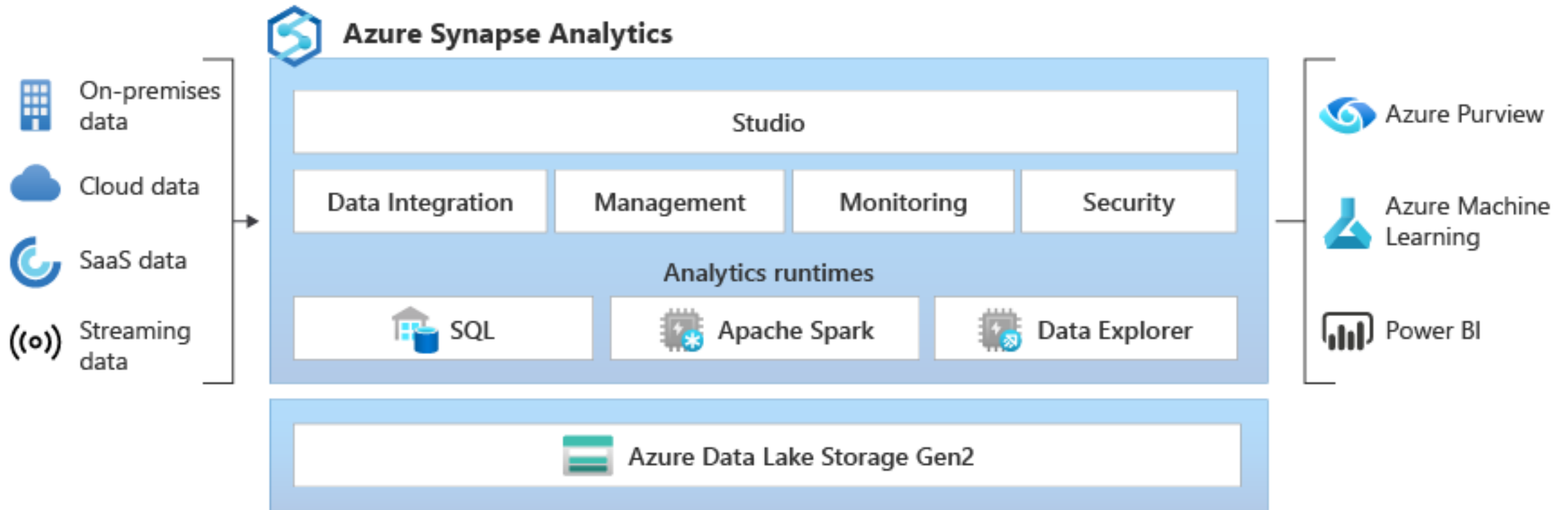
Architecture 2020





Data Lakehouse

Data Lakehouse



Reference: <https://docs.microsoft.com/en-us/azure/synapse-analytics/overview-what-is>

Latest Data Lakehouse improvements

- Azure Databricks
 - Power BI connector
 - RLS and CLS
 - Photon (Preview)
 - Databricks SQL (Preview)
- Azure Synapse Analytics
 - Spark 3.0 runtime
 - Delta Lake support
 - Synapse Link
 - Lake Database (Preview)
 - Data Explorer (Preview)

DEMO

- Azure Databricks
 - Delta Lake
 - Photon
 - Databricks SQL
- Azure Synapse Analytics
 - Lake Database
 - Data Explorer

Tooling Update: SSMS & Azure Data Studio

- Azure Data Studio is now included in SQL Server Management Studio
- Azure Data Studio basics
 - Free for private or commercial use
 - Built on top of VS Code
 - Runs on Windows, MacOS and Linux
 - Good for modern database development
- SQL Server Management Studio
 - Still superior for database administration

Kiitos 😊