

Azure Synapse Analytics

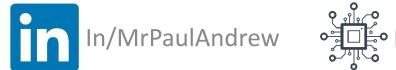
An Introduction

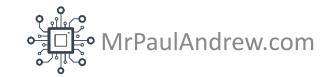
Paul Andrew Group Manager & Analytics Architect

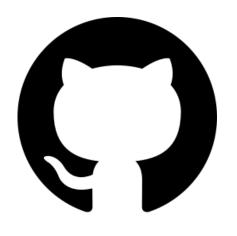












https://github.com/mrpaulandrew

CommunityEvents

Demo code, content and slides from various community events.

C++

{Event/Location}-{Month}-{Year}

Agenda

What is it?

- Development
 - Compute
 - Common Metadata
 - Notebooks
 - SDK/Endpoint

Security

Source Control

Deployments

Agenda

What is it?

Everything Else

- Development
 - Compute
 - Common Metadata
 - Notebooks
 - SDK/Endpoint

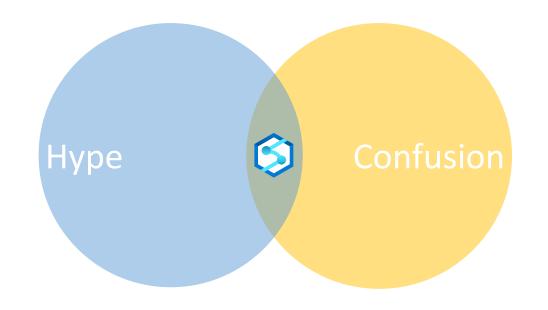
Security

Source Control

Deployments

Q: What is Azure Synapse Analytics?

A: NULL



Q: What is Azure Synapse Analytics?

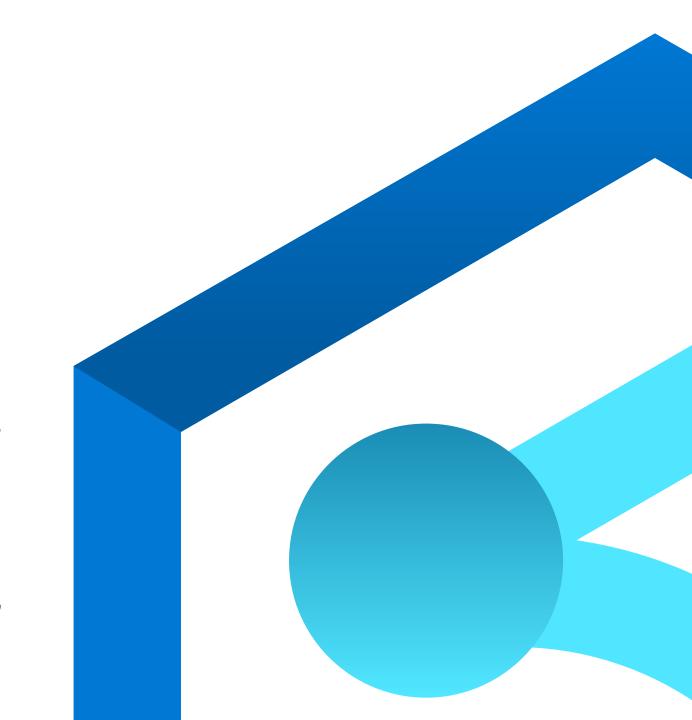
A: Lots of things!

A complete suite of Cloud native data processing services.



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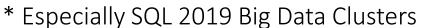
A complete suite of Cloud native data processing services.



Synapse is to data processing in Azure what SQL Server is to data processing on premises.





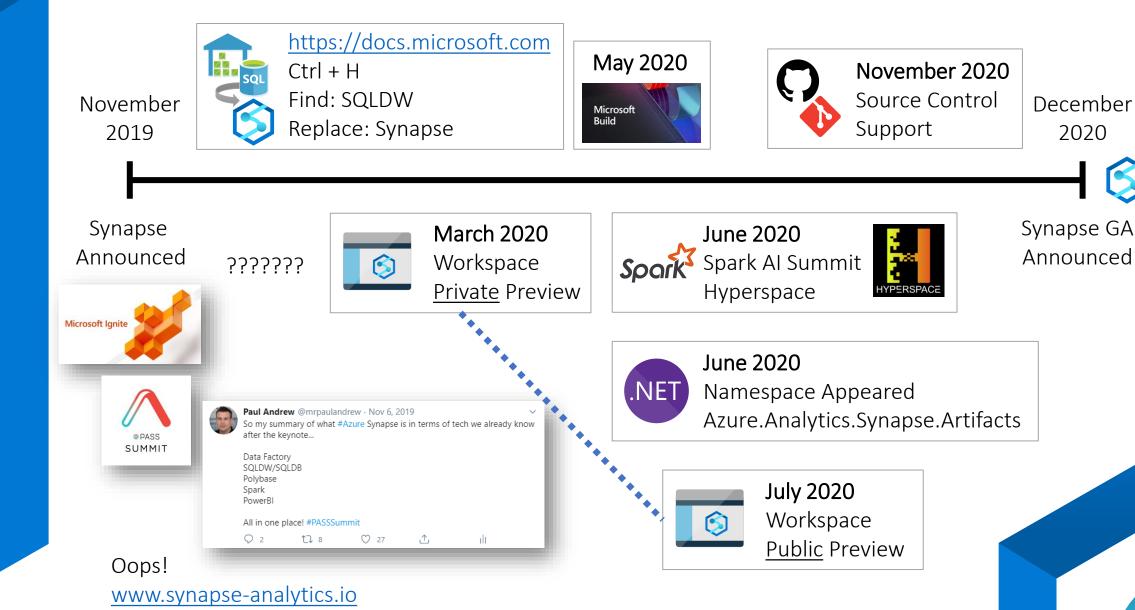




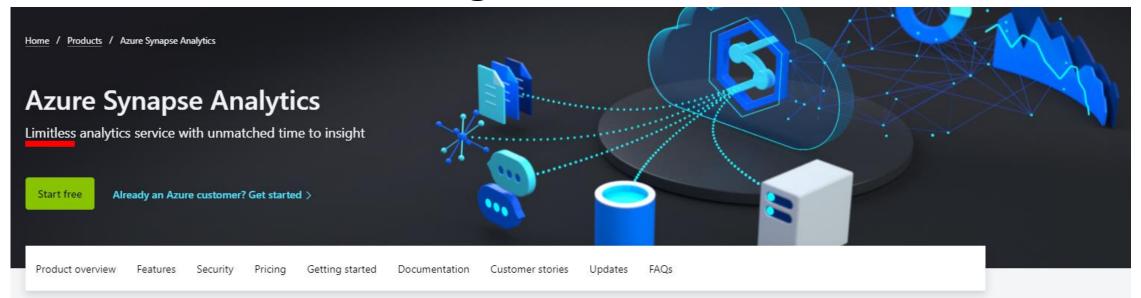




What is it? – A Timeline View



What is it? – According to Microsoft



Experience a new class of analytics

Azure Synapse Analytics is a limitless analytics service that brings together data integration, enterprise data warehousing, and big data analytics. It gives you the freedom to query data on your terms, using either serverless or dedicated resources—at scale. Azure Synapse brings these worlds together with a unified experience to ingest, explore, prepare, manage, and serve data for immediate BI and machine learning needs.

See the new features



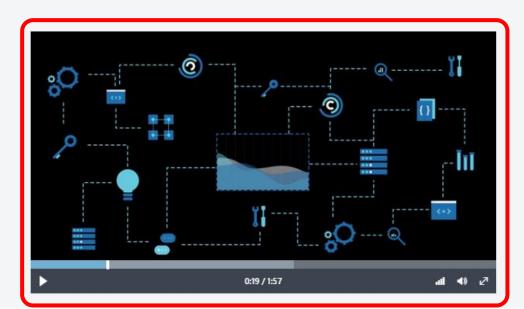
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See the new features



"... stitching together a multitude of services...

... resulting in brittle high maintenance architectures."

What is it? – In Terms of Established Services







SQL Data Warehouse



SQL Database



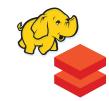
Data Lake



Power BI

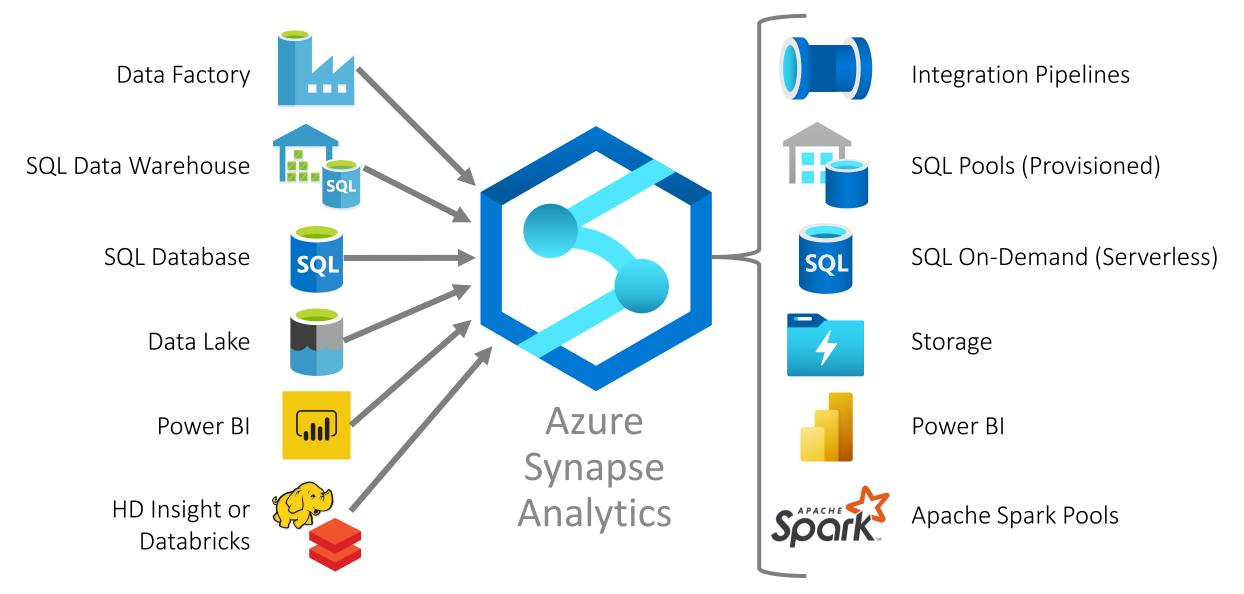


HD Insight or Databricks



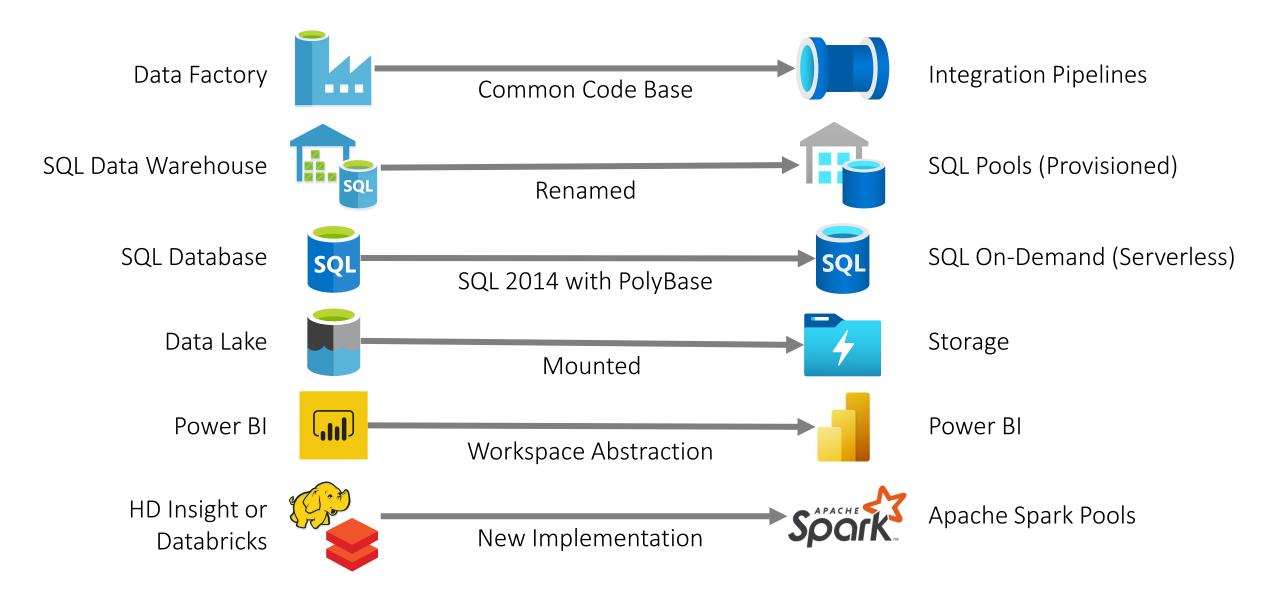
What is it? – In Terms of Established Services





What is it? – In Terms of Established Services





What is it?







Integration Pipelines



SQL Pools (Provisioned)



SQL On-Demand (Serverless)



Storage



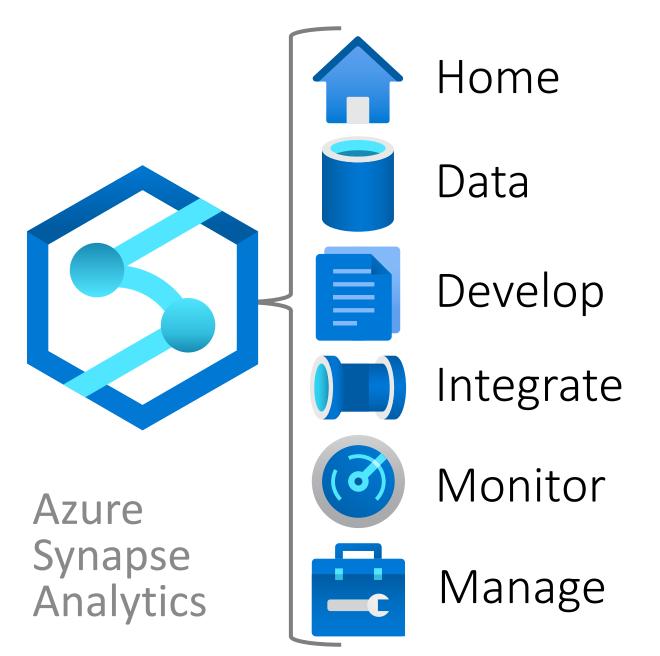
Power BI



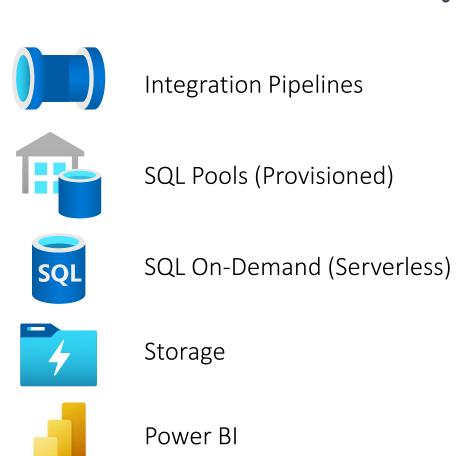
Apache Spark Pools

What is it? — When We Look Inside









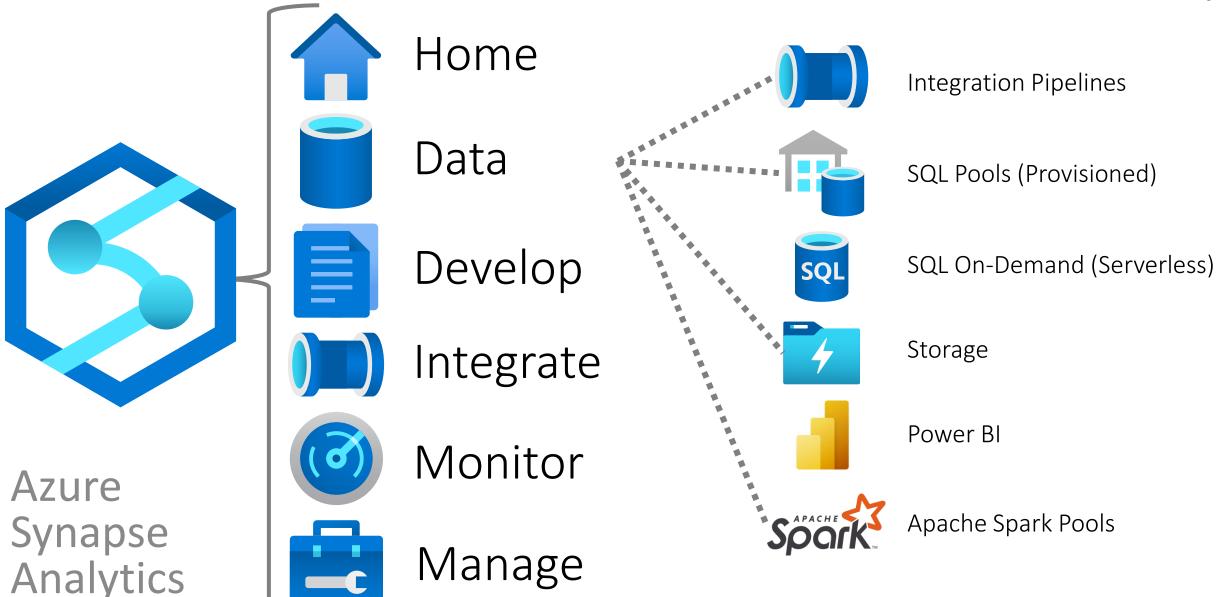




Apache Spark Pools

What is it? – When We Look Inside





What is it? – When We Look Inside





Home



Data



Develop



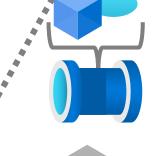
Integrate



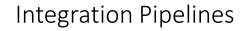
Monitor

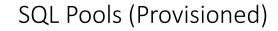


Manage



Data Flows









Power BI



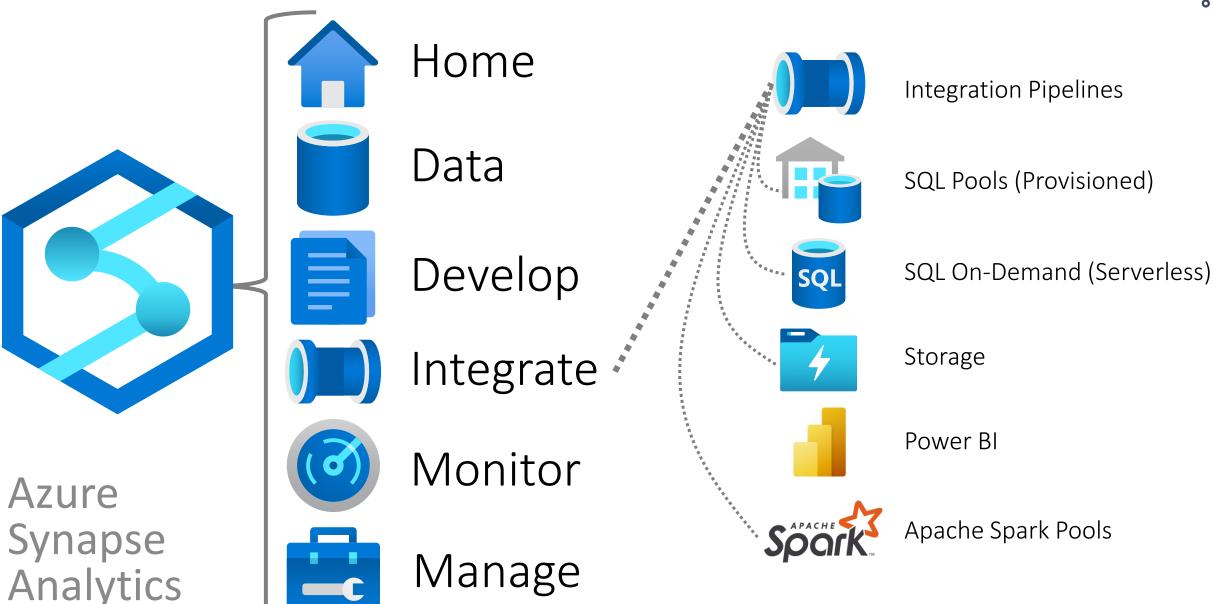
Apache Spark Pools



Azure Synapse Analytics

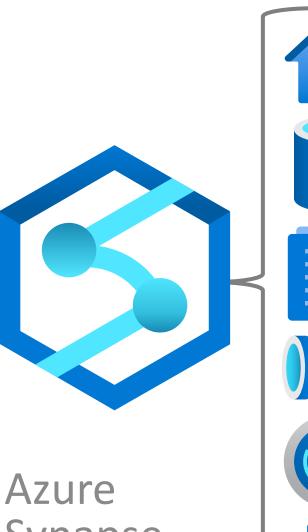
What is it? – When We Look Inside











Azure Synapse Analytics Home





Integrate

Monitor

Manage



SQL Pools (Provisioned)

Integration Runtimes

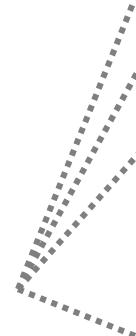
SQL On-Demand (Serverless)

Storage

Power BI

Apache Spark Pools





What is it? - When We Look Inside





Home



Data



Develop



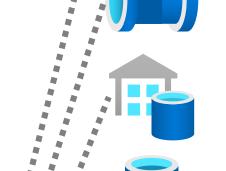
Integrate



Monitor

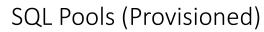


Manage



Integration Pipelines

Integration Runtimes





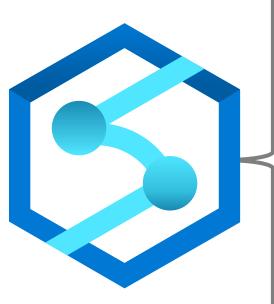


Power BI



Apache Spark Pools

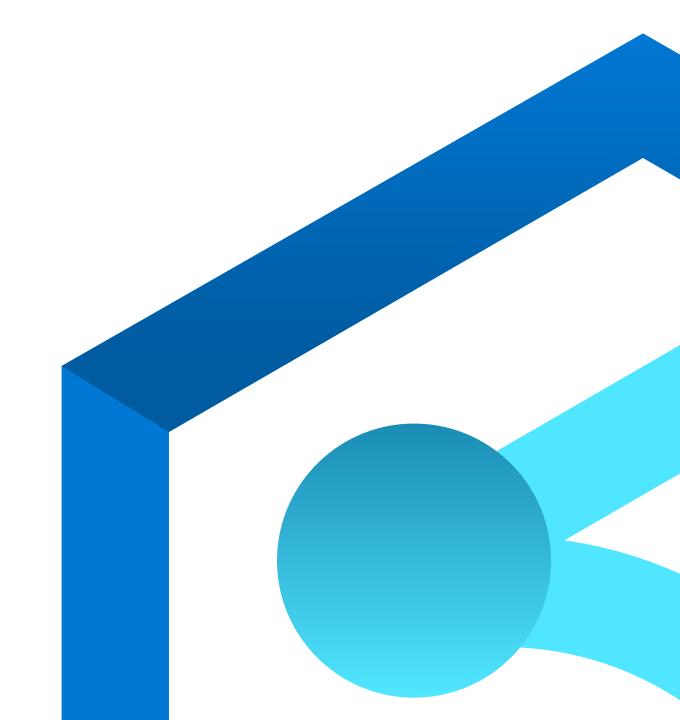




Azure Synapse Analytics What is it? — When We Look Inside Data Flows & Integration Runtimes Home Integration Pipelines Data SQL Pools (Provisioned) Develop SQL On-Demand (Serverless) Storage Integrate Power BI Monitor Azure Apache Spark Pools Synapse Manage **Analytics**

Workspace

Everything Else



Synapse Suite











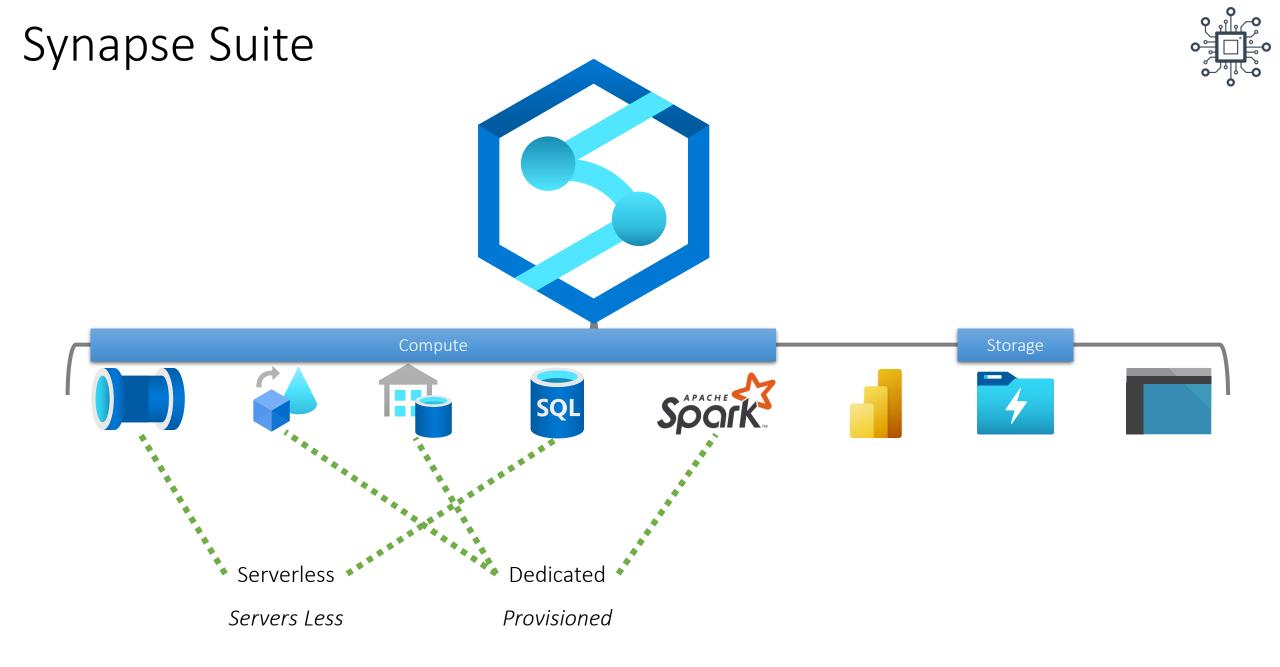


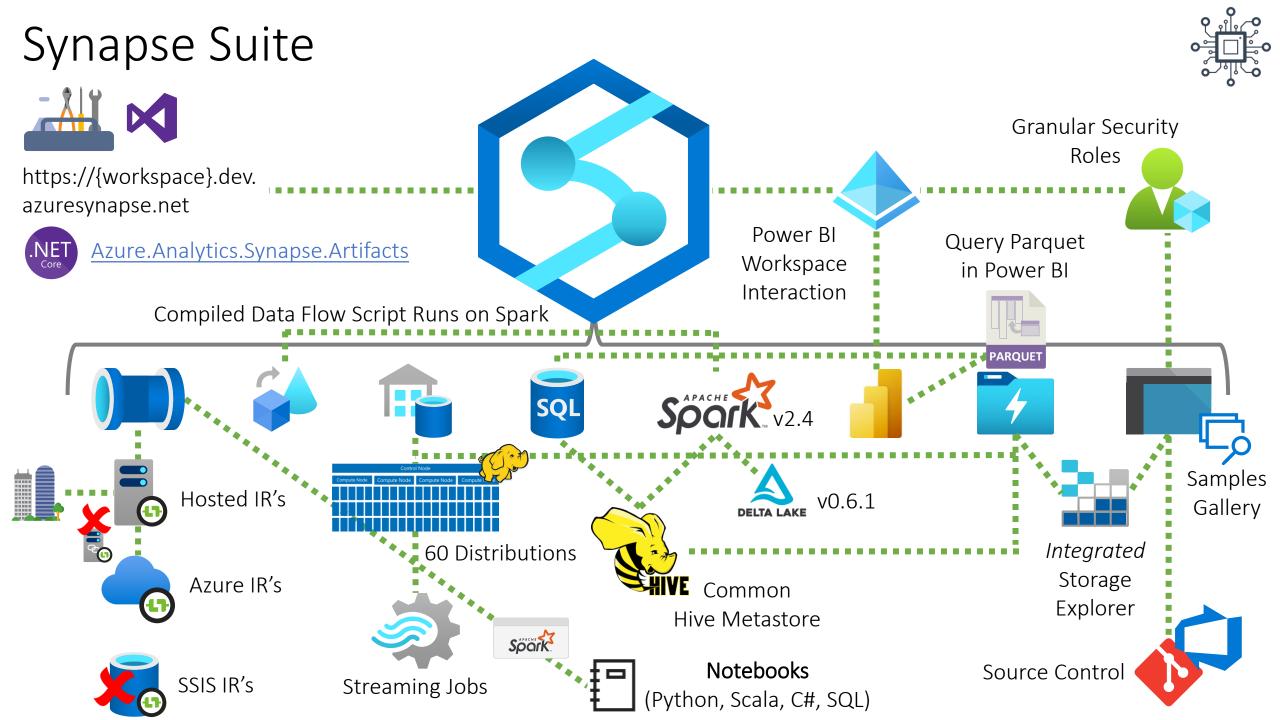


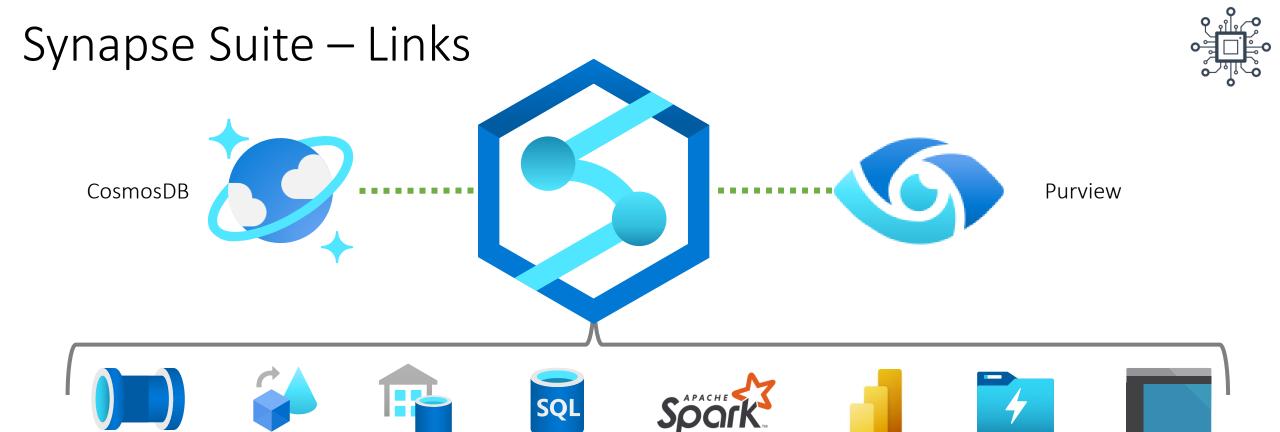












Thank you for listening...





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