

AZURE SYNAPSE ANALYTICS

Azure SQL Data Warehouse evolved

SIDNEY CIRQUEIRA

Upcoming Events



We are thrilled to say the first ever PASS Virtual Summit will be taking place this November!

PASSsummit.com



Save the date! On July 23, 2020, we will be hosting our next PASS Marathon: SQL Server Performance edition - stay tuned for more details.



Sidney Cirqueira Data Analyst, Lanlink





















Biography

+9 years of experience with Information Technology

+2 years working with emphasis on Data & Al Engineering using Microsoft Azure Cloud Platform

Big Data & Machine Learning Student and Enthusiast

Speaker and participant in the Microsoft Technical Community

Microsoft Trainer



Agenda

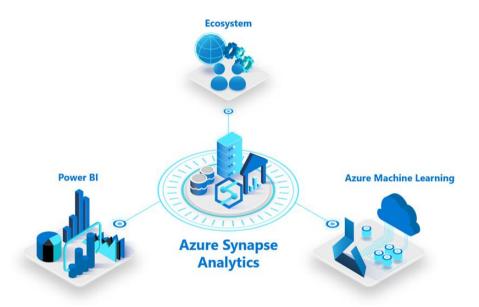
- What is Azure Synapse Analytics?
- Key component of Modern Data Warehouse
- Synapse Analytics (formerly SQL DW) GA "v1"
- Synapse Analytics (preview) "v2"
- Synapse Analytics Key Features
- Synapse Analytics Link for Azure Cosmos DB (preview)
- Demo
- Questions
- References



What is Azure Synapse Analytics?

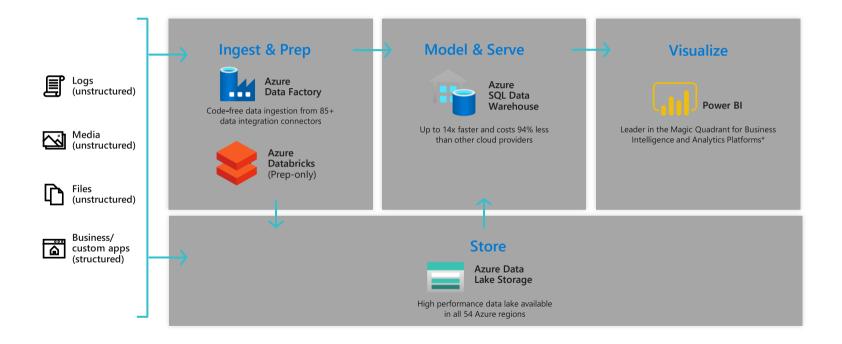
Limitless Analytics Services

that brings together enterprise Data Warehousing and Big Data Analytics with a unified experience to ingest, prepare, manage, and serve data for immediate BI and machine learning needs.





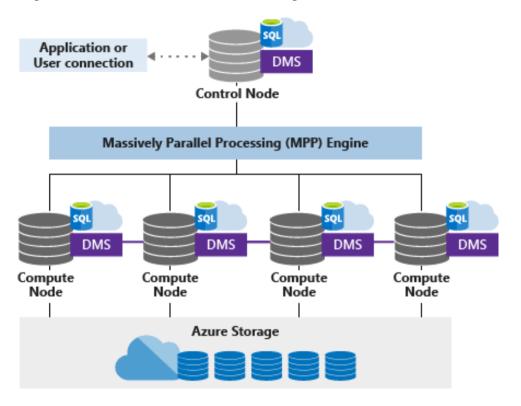
Key component of Modern Data Warehouse





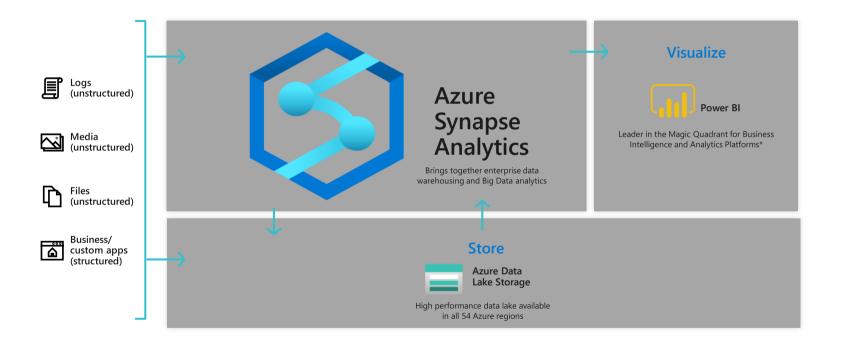
Azure Synapse Analytics (formerly SQL DW)

MPP – Massively Parallel Processing



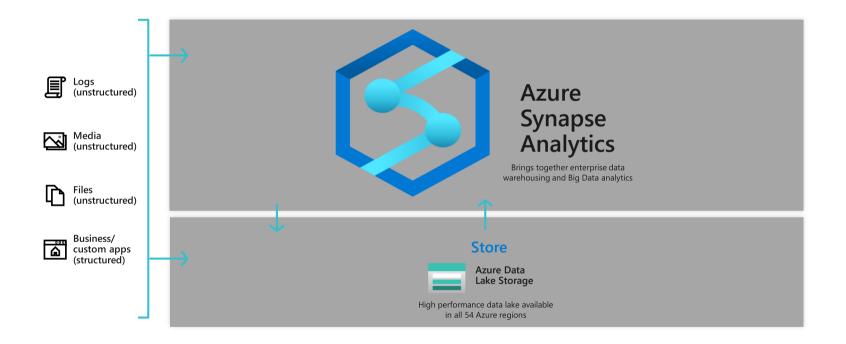


Azure Synapse Analytics – Data Lakehouse



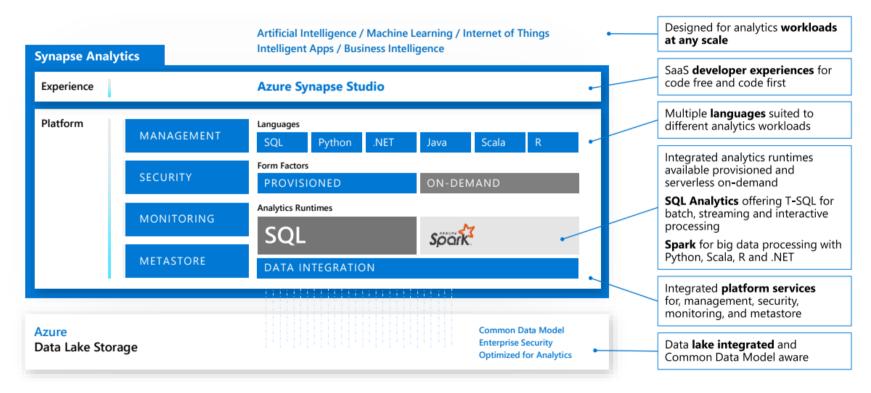


Azure Synapse Analytics



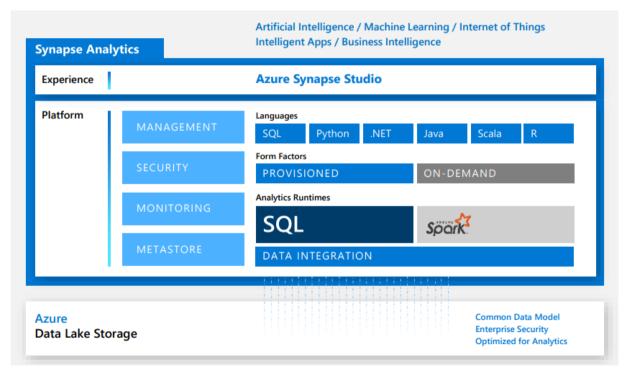


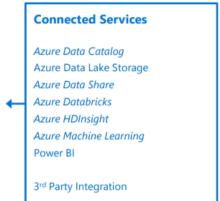
Azure Synapse Analytics





Azure Synapse Analytics







Azure Synapse Analytics - Features









SOL ANALYTICS

APACHE SPARK

STUDIO

DATA INTEGRATION

Limitless Scale GA

Provisioned Compute Materialized views Result-set cache Workload importance Workload isolation

Powerful insights Preview

Power BI integration
Azure Machine Learning integration
Stream analytics (data warehouse)
Apache Spark integration

Unified experience Preview

Hybrid data ingestion Azure Synapse Studio

Instant Clarity Preview

Azure Synapse Link

Unmatched security GA

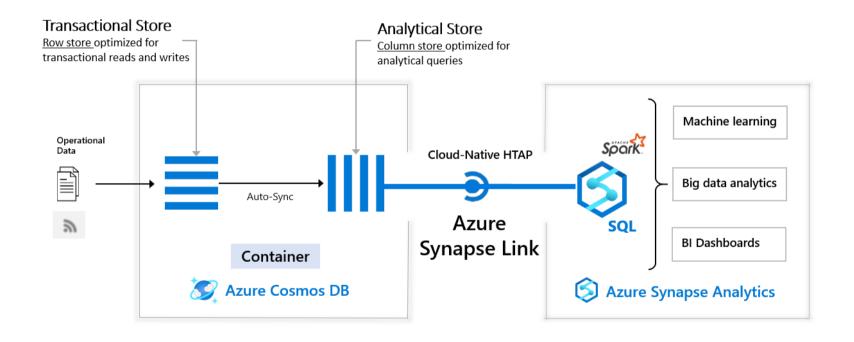
Column and row-level security
Dynamic data masking
Private endpoints

Preview

Serverless data lake Exploration

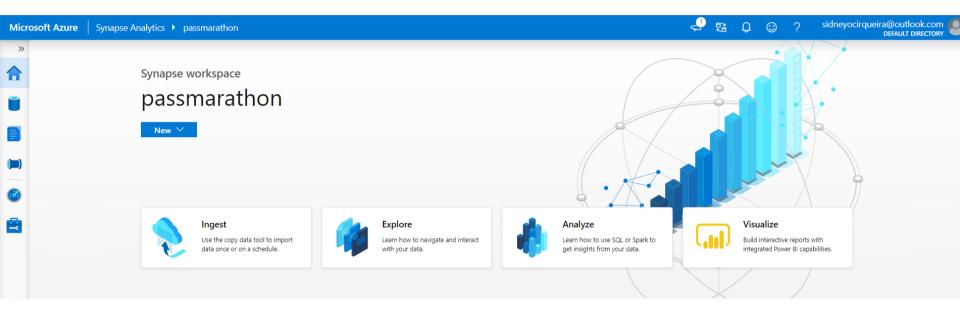


Azure Synapse Link for Cosmos DB (preview)





Demo





References

- Synapse Analytics(workspaces): https://docs.microsoft.com/en-us/azure/synapse-analytics/overview-what-is
- Synapse Analytics(SQL DW): https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/
- Modern Data Warehouse: https://azure.microsoft.com/en-in/solutions/architecture/modern-data-warehouse/
- MPP Architecture: https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/massively-parallel-processing-mpp-architecture
- Product: https://azure.microsoft.com/en-us/services/synapse-analytics/
- Synapse Link: https://docs.microsoft.com/en-us/azure/cosmos-db/synapse-link
- Benchmark Cloud DW: https://azure.microsoft.com/en-us/services/synapse-analytics/compare/
- Synapse Analytics Toolkit: https://azure.microsoft.com/en-us/resources/azure-synapse-analytics-toolkit/







Thank you for attending

Learn more from Sidney Cirqueira

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https: github.com/sidneyocirqueira/azure-synapse-analytics





