

JULY 14 2020



LIGHTUP VIRTUAL CONFERENCE

24 HOURS OF MICROSOFT TECHNOLOGIES LEARNING & FUND RAISING EVENT TO FIGHT COVID-19

Synapse Analytics

Analytics en un Nuevo Nivel

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Event Feedback



Agenda

Synapse Analytics

- Qué és?
- Funciones y Componentes
- Cómo empezar a usarlo

Synapse Analytics

Qué es?



Había una vez...



SMP

Symmetric Multi-Processing

> Capacidad Máxima Fija



MPP

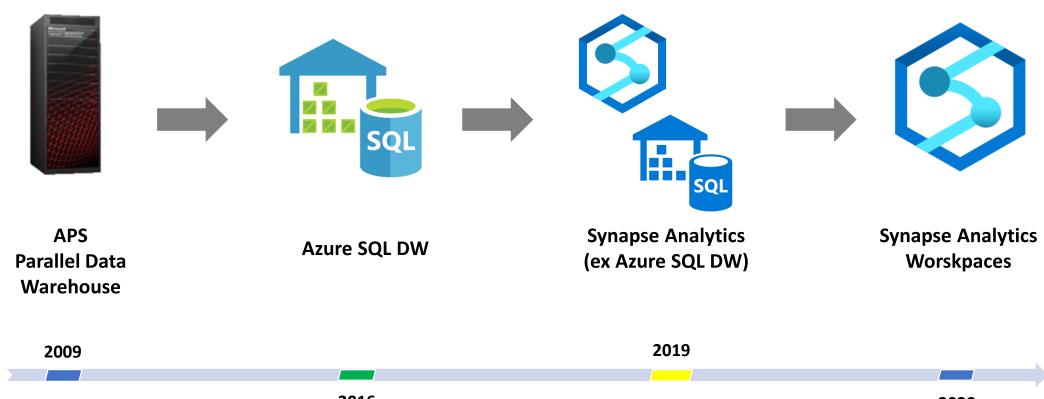
Massively Parallel Processing

> Capacidad Máxima

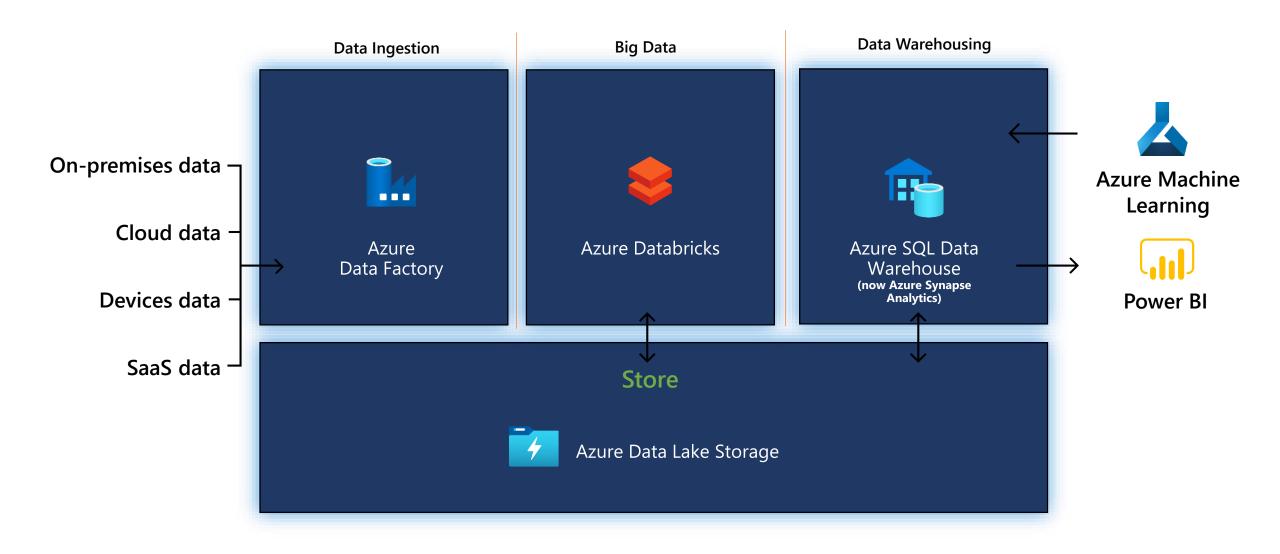
determinada por la cantidad de nodos

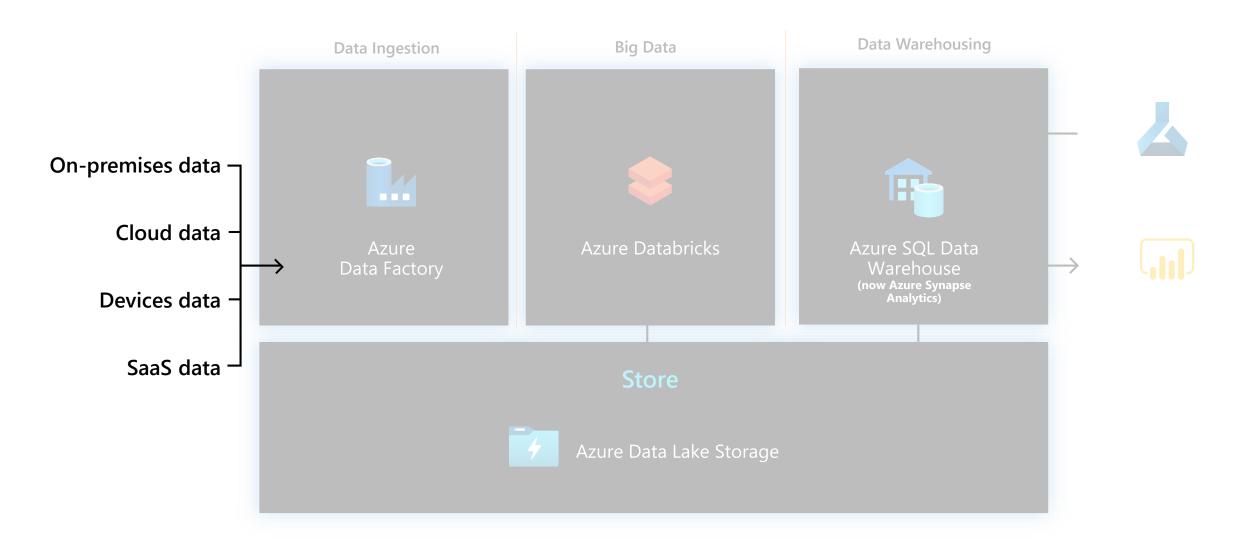


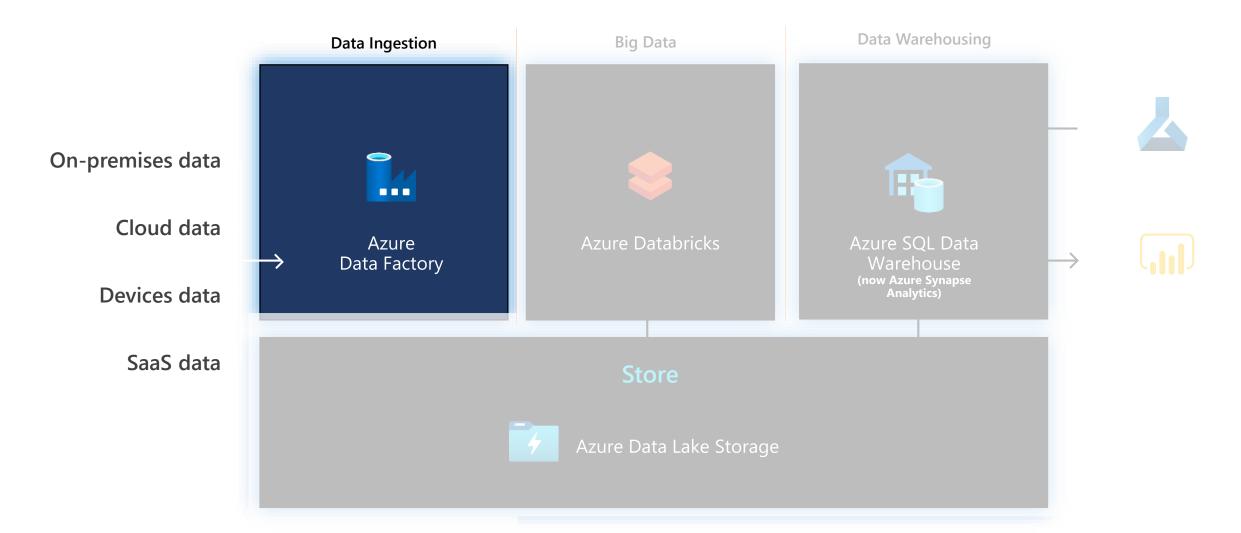
Evolución

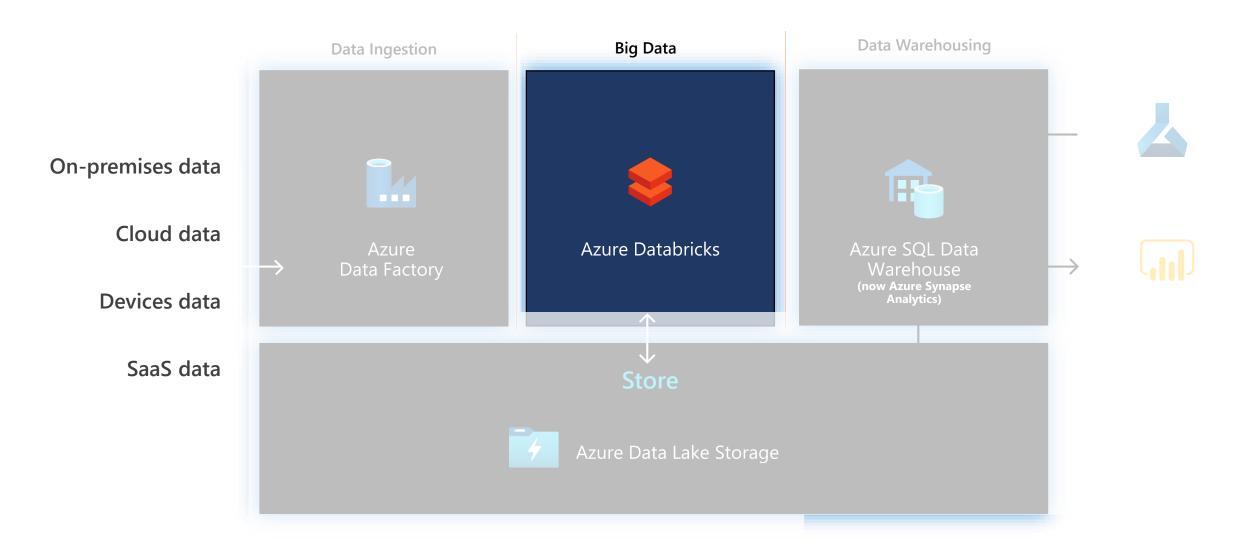


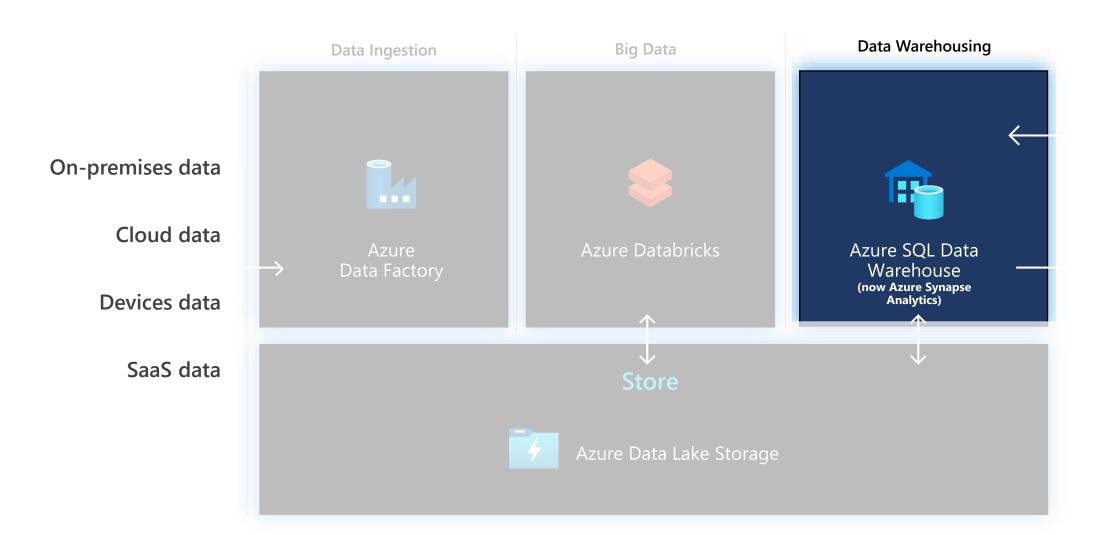
2016 2020





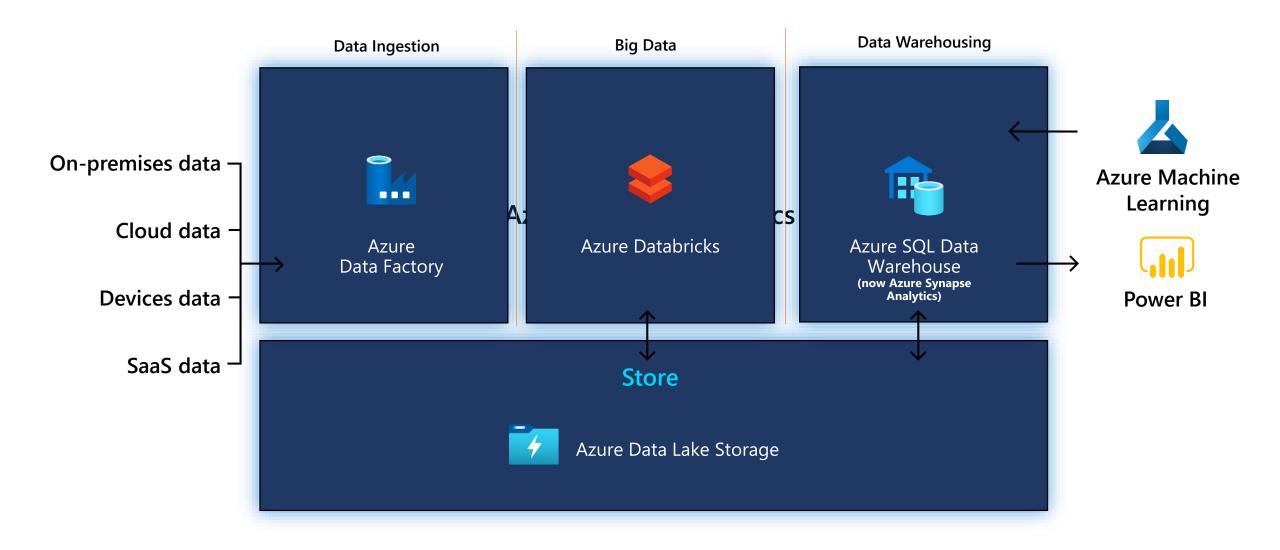


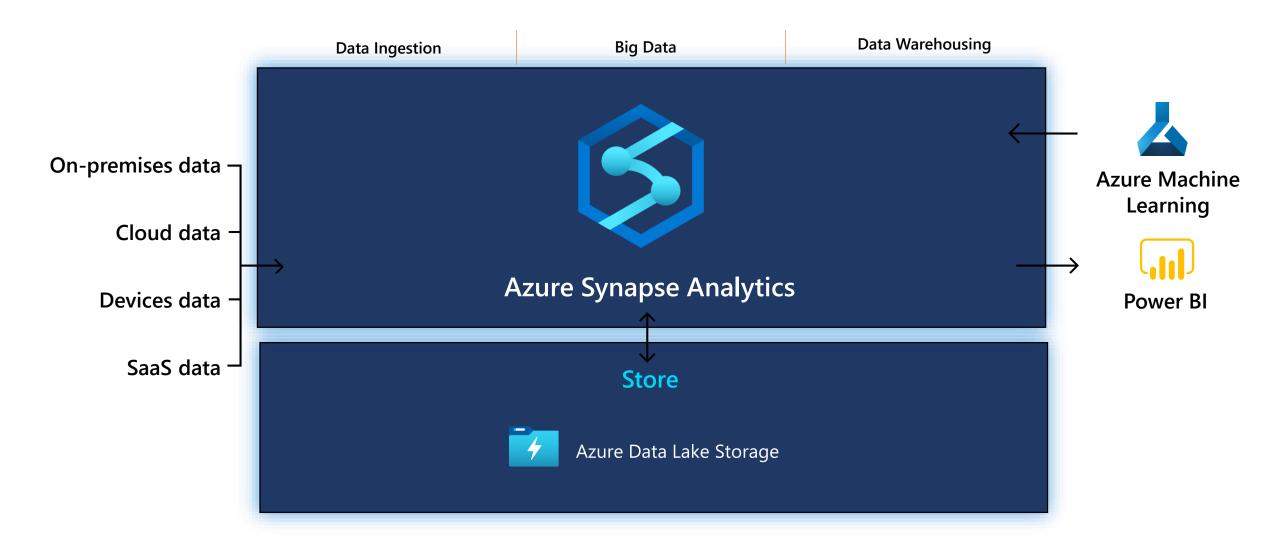












Synapse Analytics Componentes y Funciones





Synapse SQL

Query and analyze data with T-SQL using both provisioned and serverless models



Apache Spark for Synapse

Quickly create notebooks with your choice of Python, Scala, SparkSQL, and .NET for Apache Spark



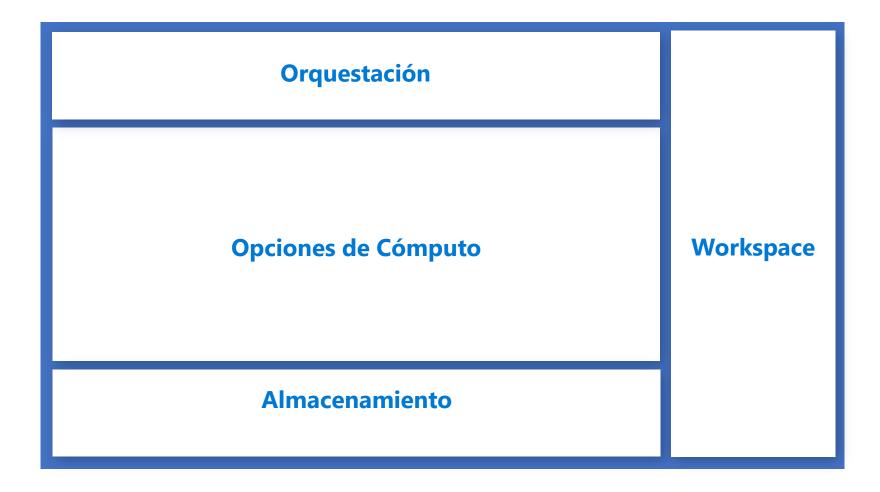
Synapse Pipelines

Build end-to-end workflows for your data movement and data processing scenarios

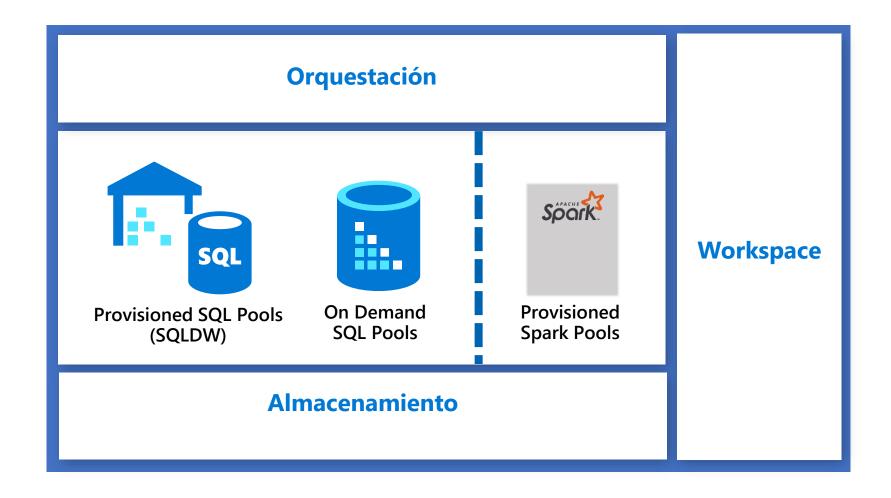


Synapse Studio

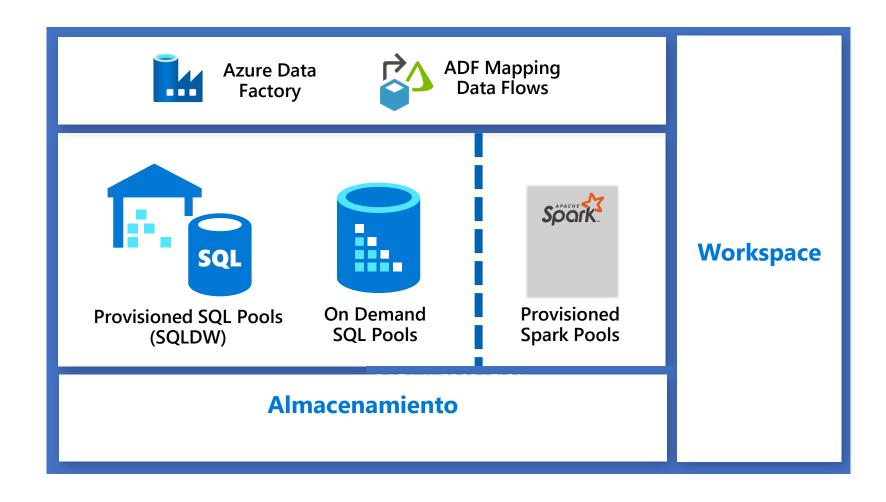
Execute all data tasks with a simple UI and unified environment



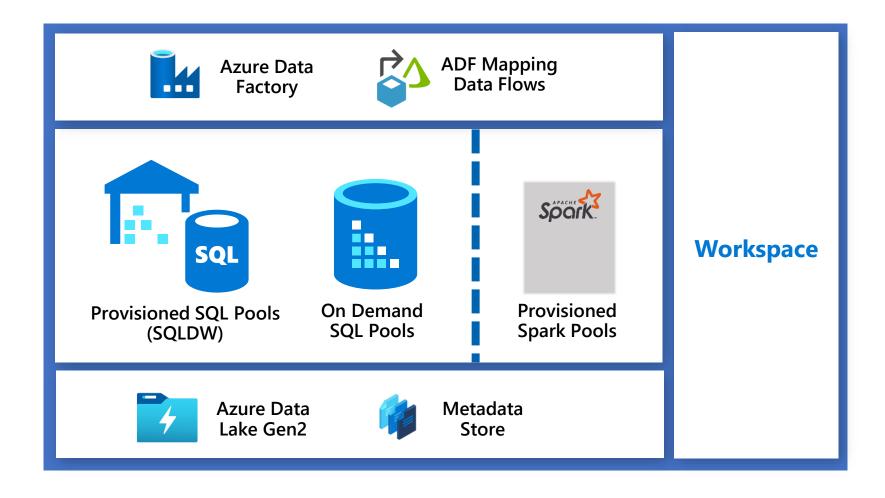




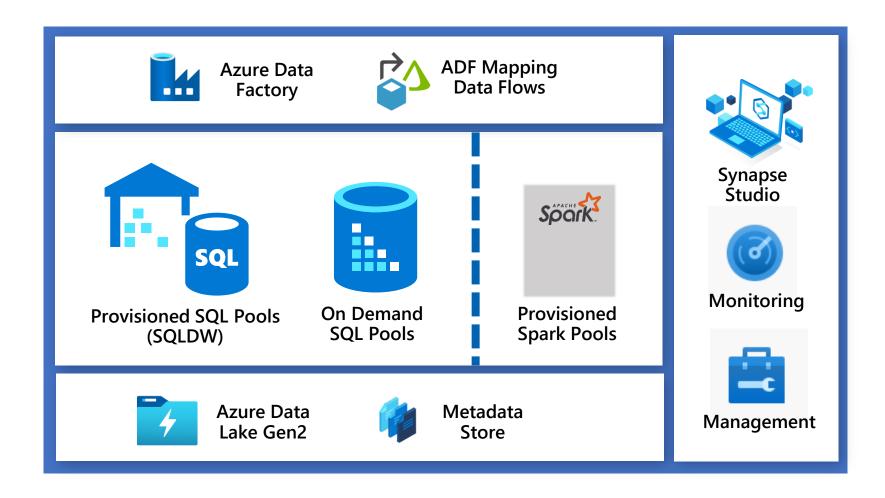
















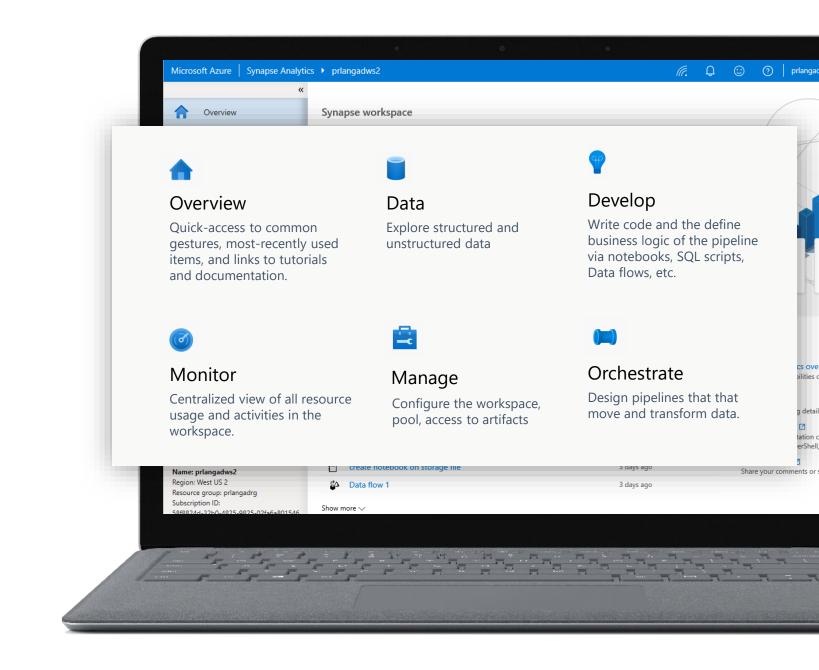
Azure Synapse Analytics Synapse Studio



Synapse Studio

Synapse Studio se divide en **Activity hubs**

Cada Hub organiza las distintas tareas para crear Soluciones analíticas

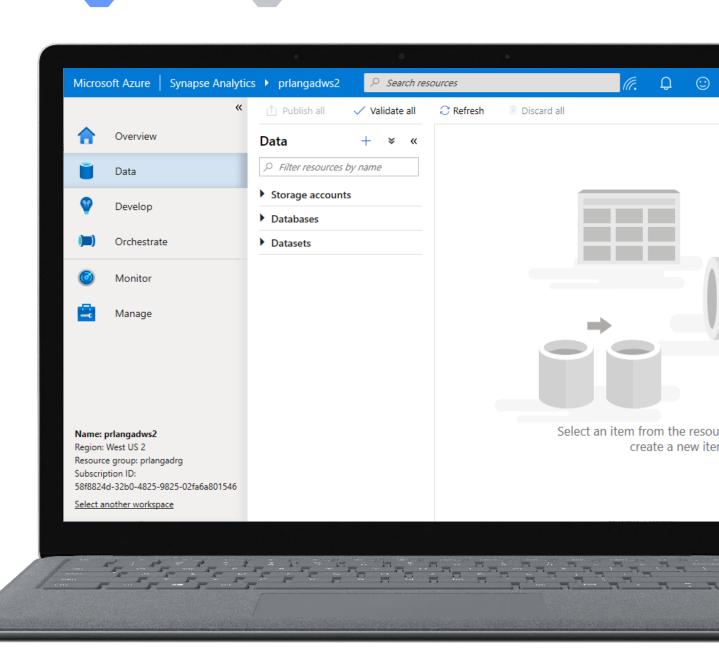




Synapse Studio Data hub

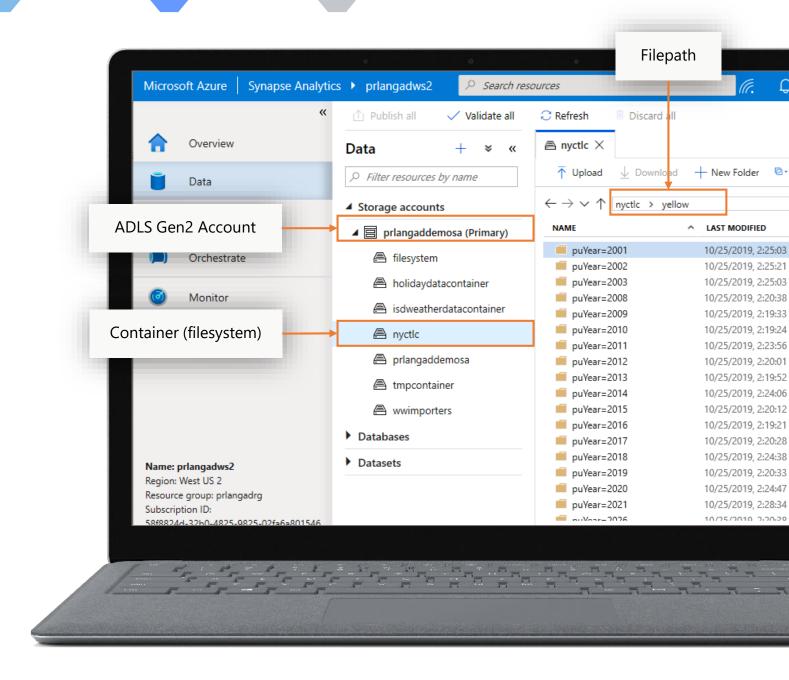
Data Hub

Explorar la información de las fuentes de datos dentro del workspace y las Cuentas de almacenamiento conectadas



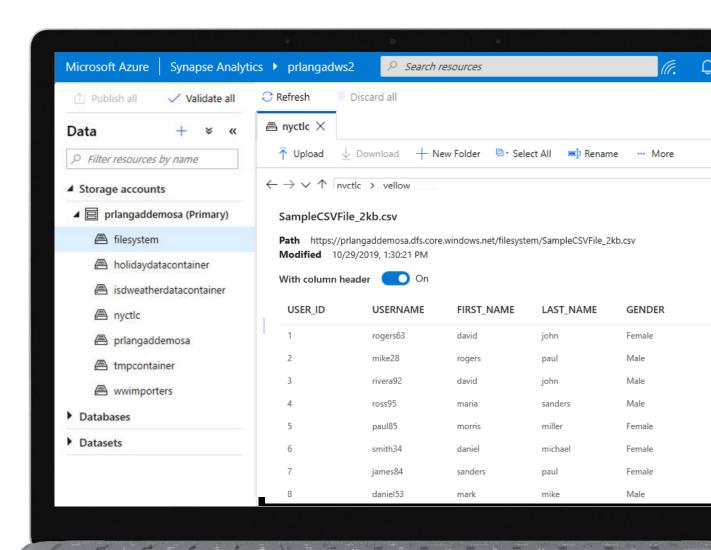
Data Hub

Explorar la información de las fuentes de datos dentro del workspace y las Cuentas de almacenamiento conectadas



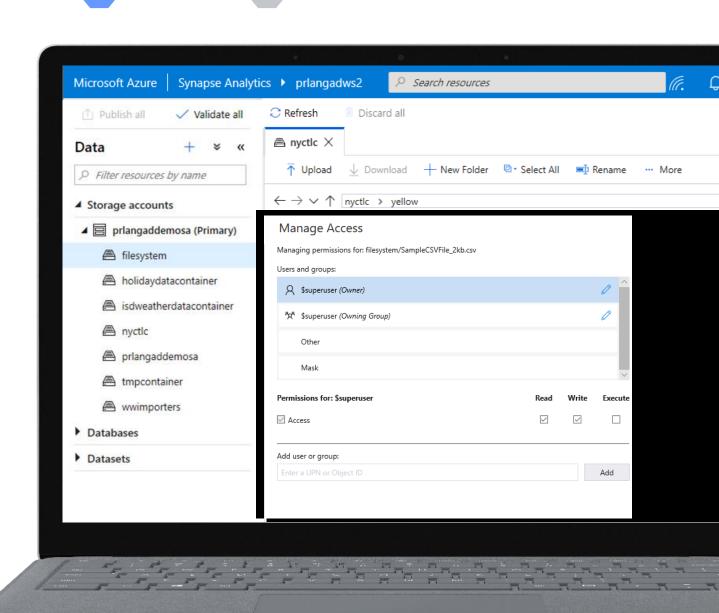
Data Hub – Storage accounts

Preview de los datos



Data Hub – Storage accounts

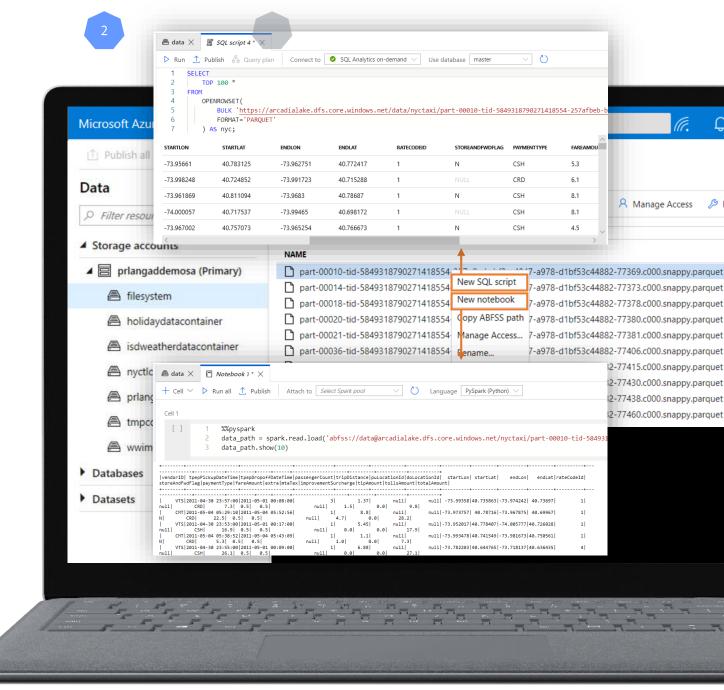
Administrar acceso y configurar políticas de seguridad standard POSIX ACLs en archivos y carpetas



Data Hub – Storage accounts

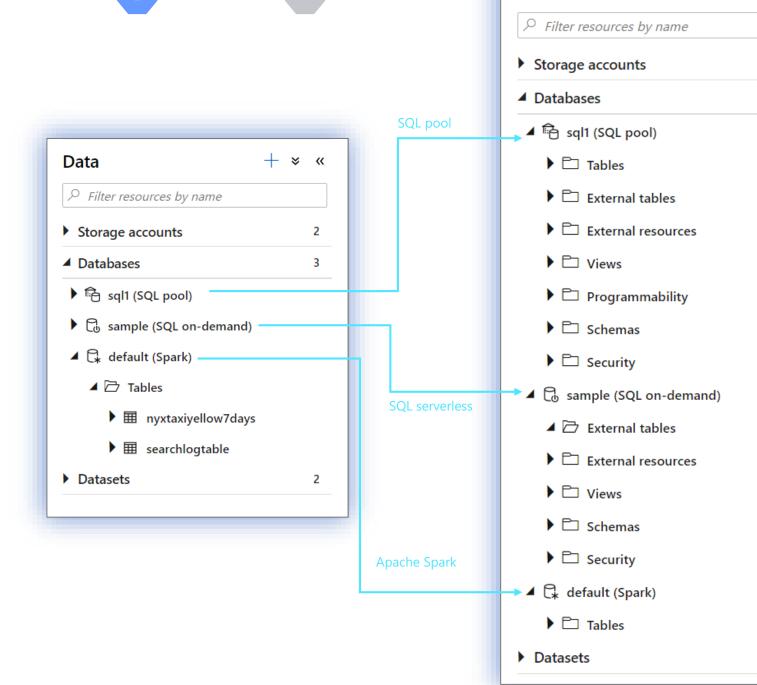
Analizar con SQL scripts ó notebooks con dos simples clicks

Autogenerado T-SQL ó PySpark



Databases

Explorar las bases de datos del Workspace



Data





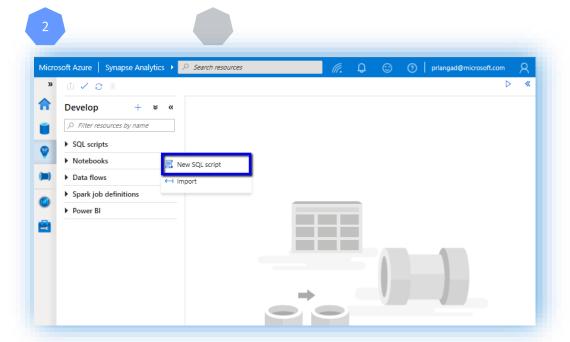
Synapse Studio | Develop Hub

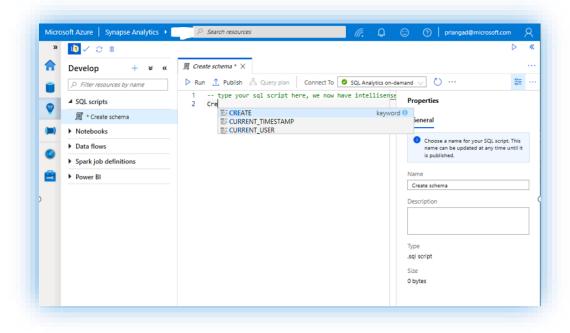
Develop hub

Crear SQL Scripts o Notebooks

Ejecutar SQL scripts en Pools de SQL o SQL Serverless

Soporte de Intellisense para los distintos lenguajes





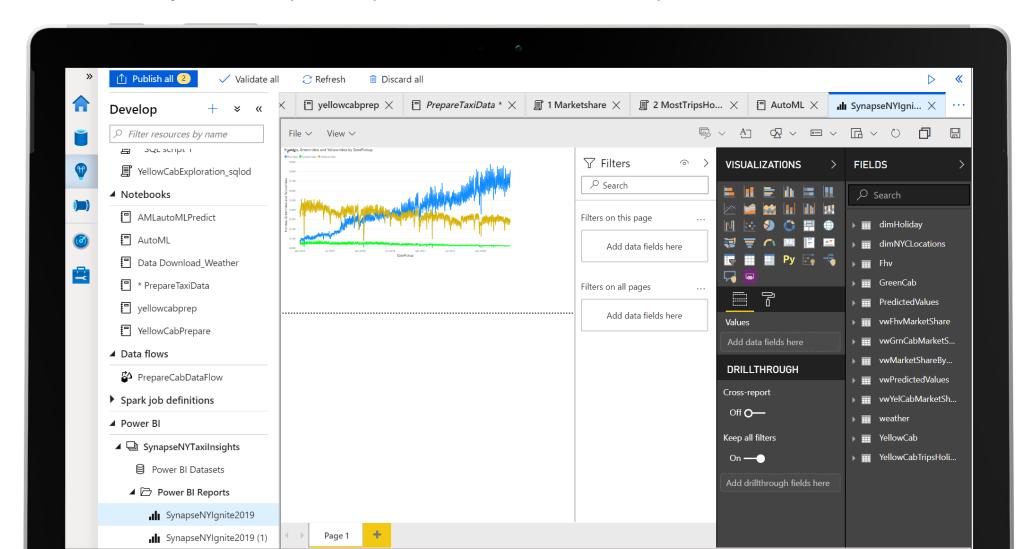




Integración | Power Bl

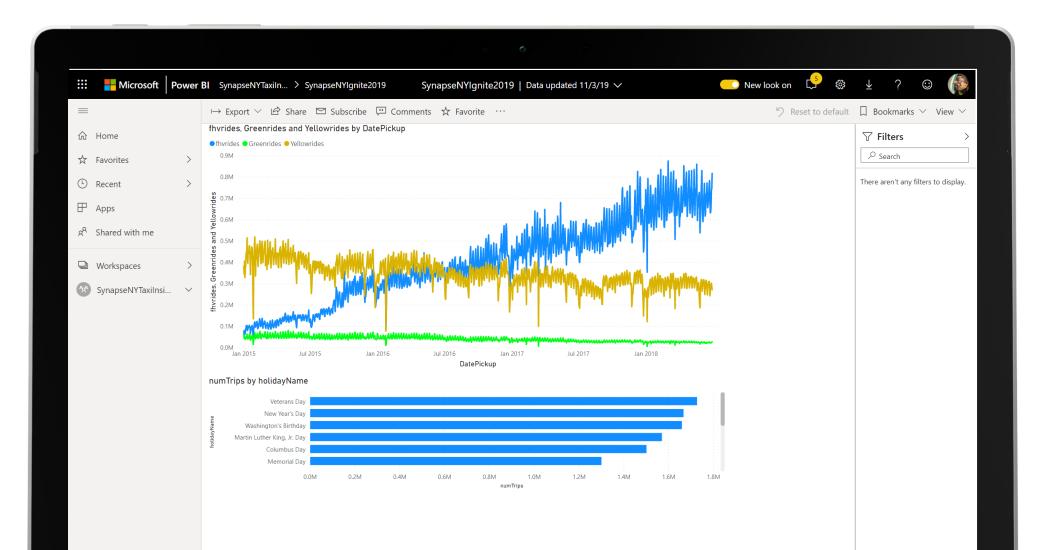
Azure Synapse + Power BI

Visualizar y Editar reportes publicados en un Workspace de Power BI



Azure Synapse + Power Bl

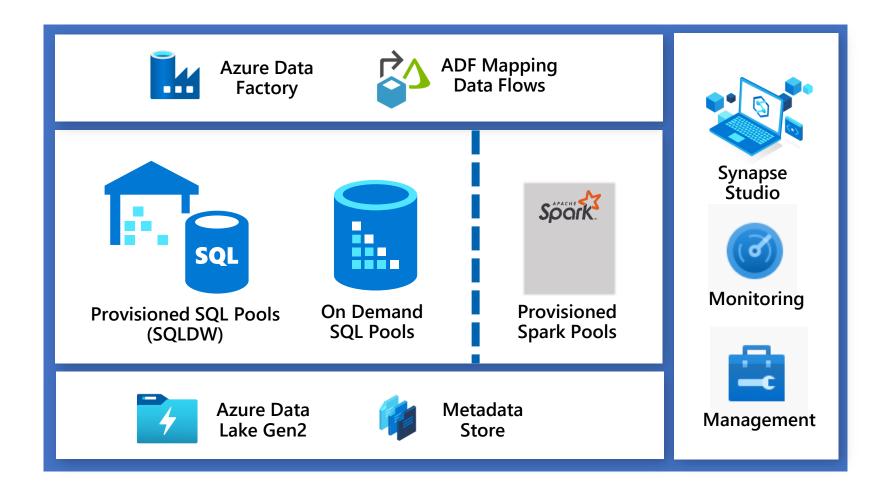
Publicación en Tiempo Real



Synapse Analytics

Como empezar a usarlo

Está listo?



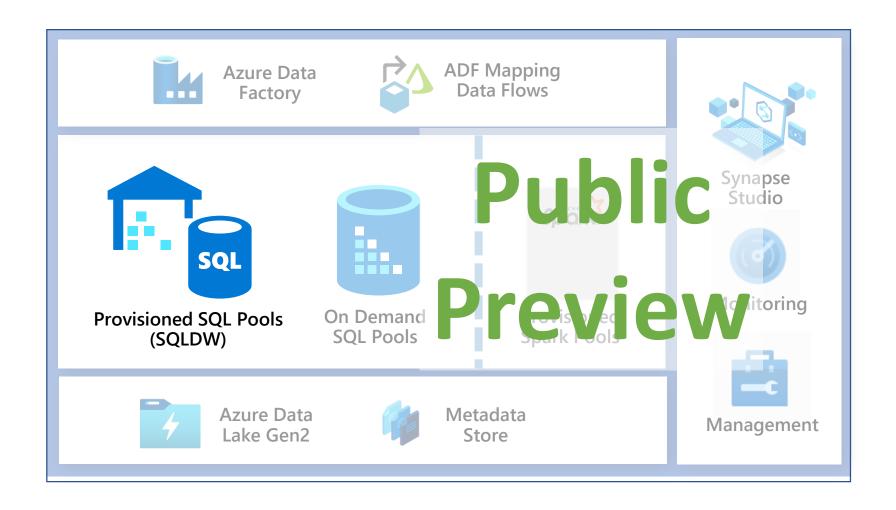


Está listo?





Está listo?





Qué opciones de Computo utilizar?



- Facturado por Hora
- T-SQL
- Grandes Volúmenes
- Modelado Relacional



Provisioned Spark Pools

- Facturado por Tiempo Uptime del Cluster Spark
- Scala, Python, C#, SQL, R
- Workflows dinámicos, ML &
 Tipos de Datos poco usuales



- Facturado Lecturas de TB
- T-SQL
- Ad-Hoc / Acceso ocasional



- Facturado Ejecución y Tiempo de Uptime del Cluster Spark
- GUI pero basado en Spark
- Transformaciones de Datos

Mas información



Crear una cuenta gratuita en Azure y comenzar a usar Azure Synapse Analytics: https://azure.microsoft.com/en-us/free/synapse-analytics/



Documentación y Tutoriales



https://docs.microsoft.com/es-es/azure/synapse-analytics/sql-data-warehouse/



Evento Virtual "How it Works":

https://aka.ms/synapse_register



Calcular costos con Azure Calculator

https://azure.microsoft.com/en-us/pricing/calculator/

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Gracias

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