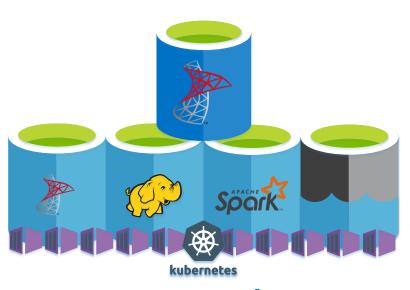
Paul Andrew | Senior Data Analytics Consultant & Data Platform | Microsoft Most Valuable Professional | Myr Microsoft | Micros



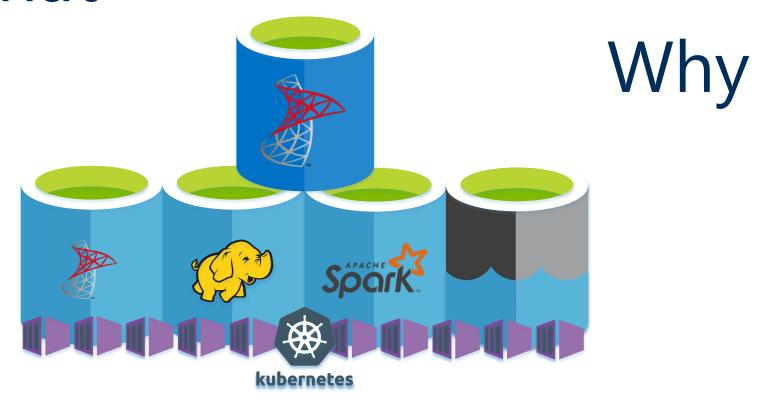




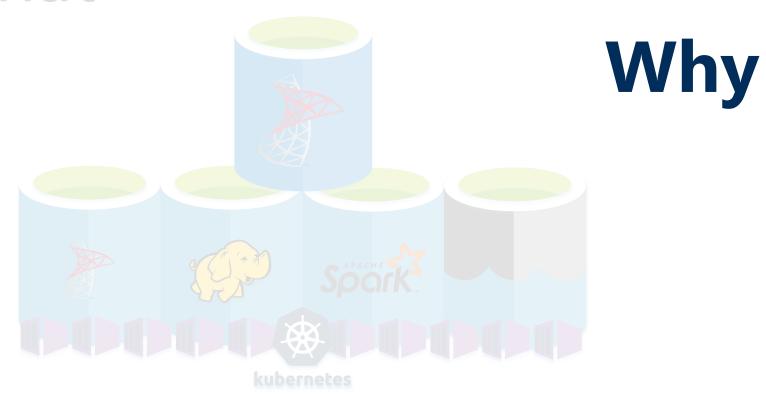
Big Data Clusters



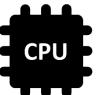






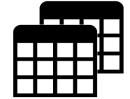






## Distributed Computing





All Forms of Data Structure



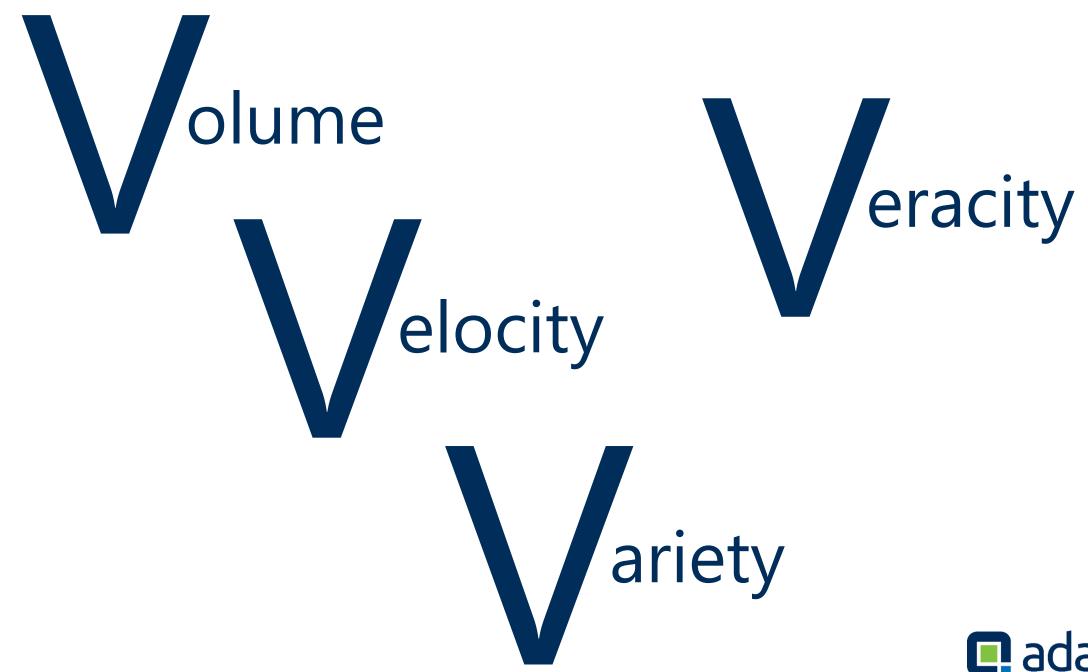
Storage Management Overheads



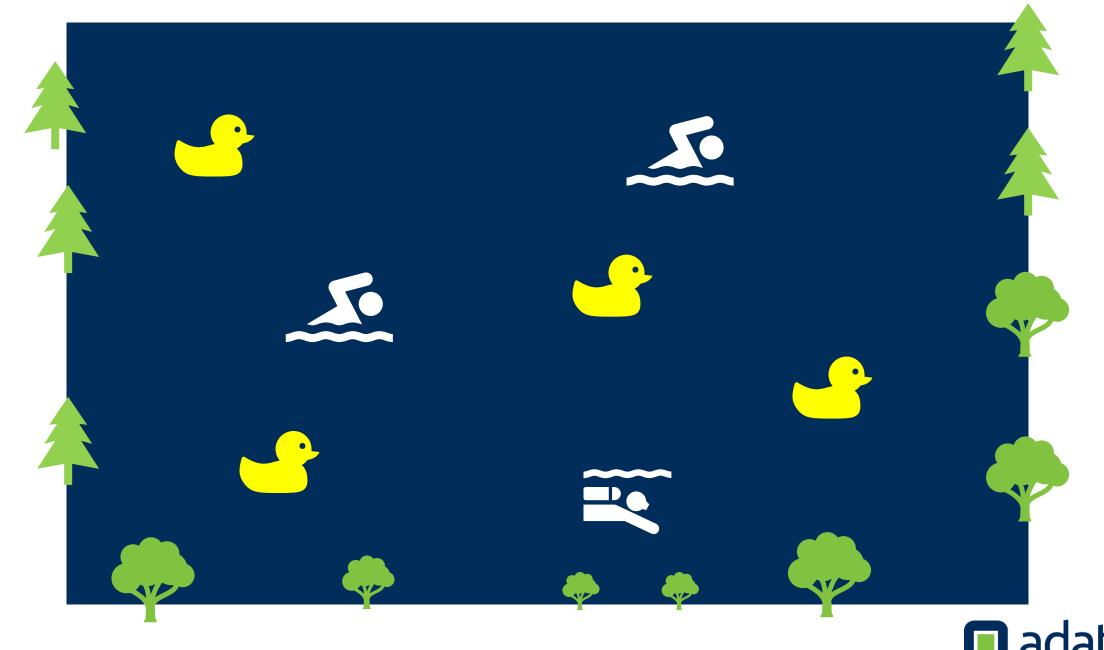
Sampling & Data Quality







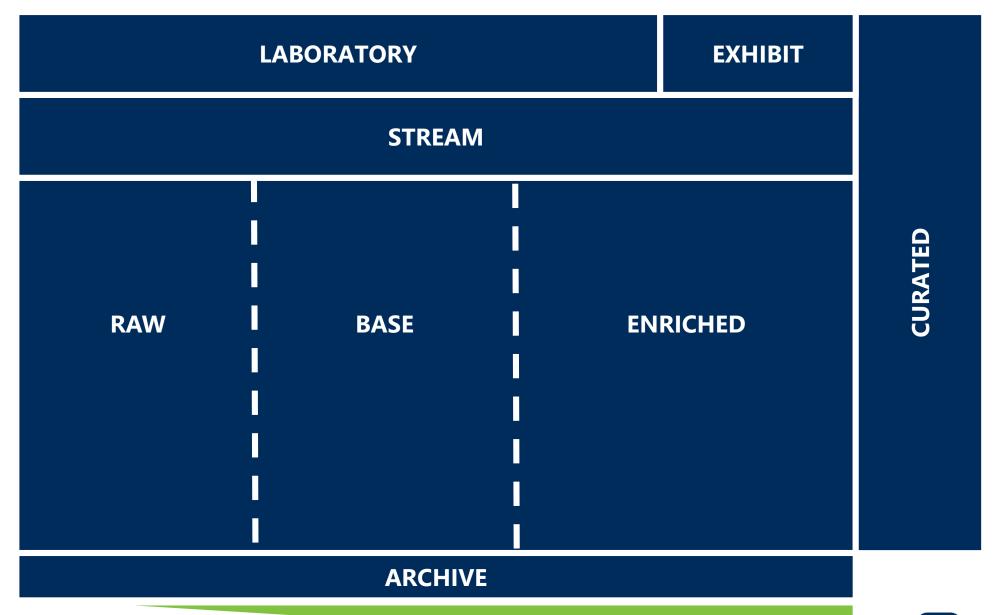




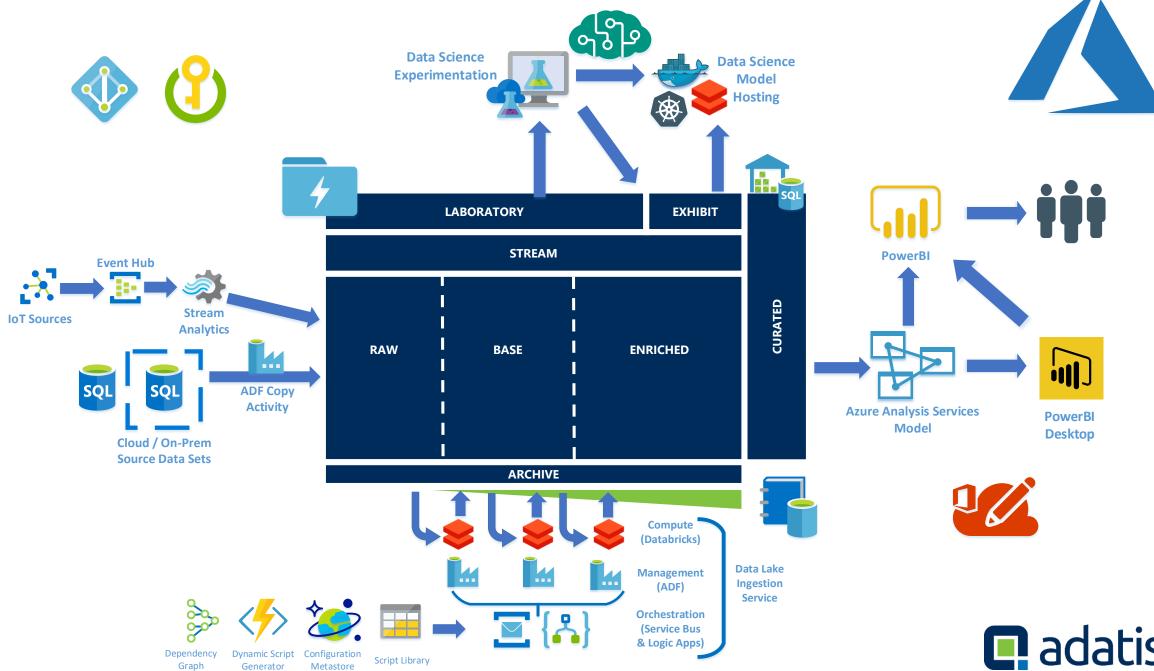




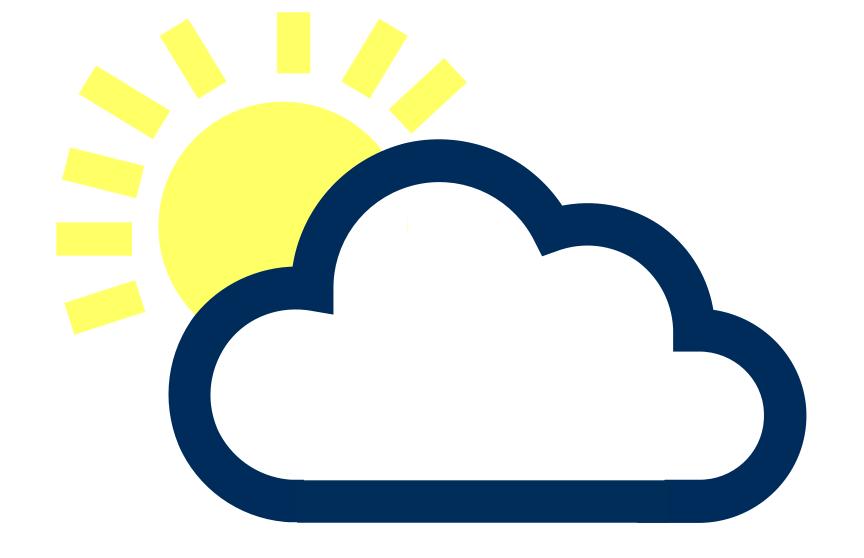










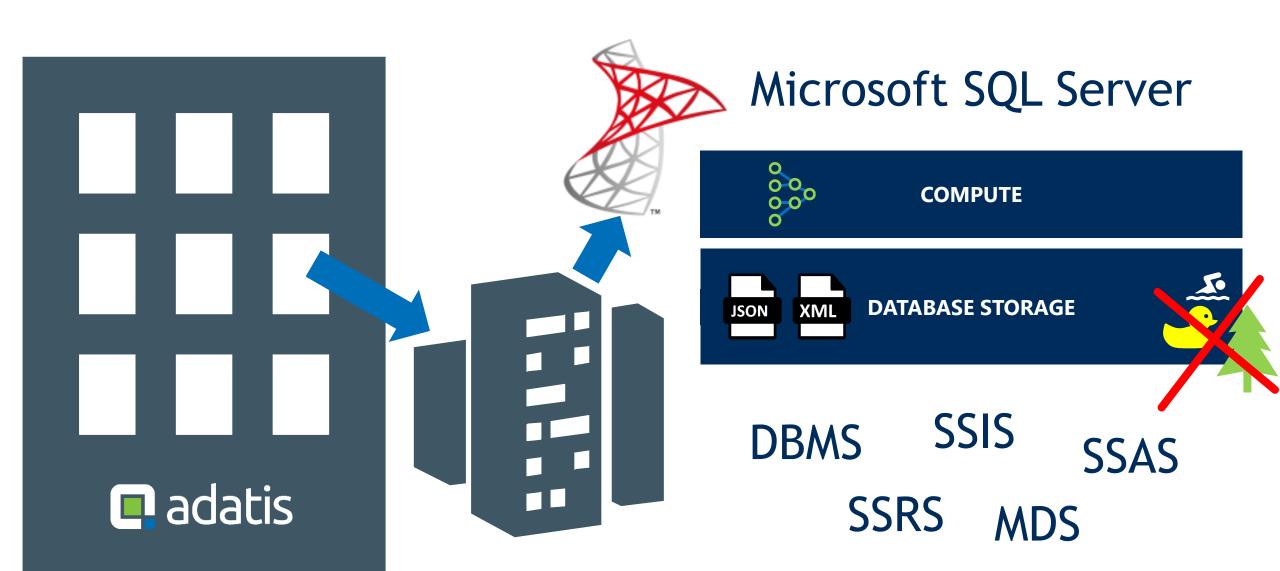


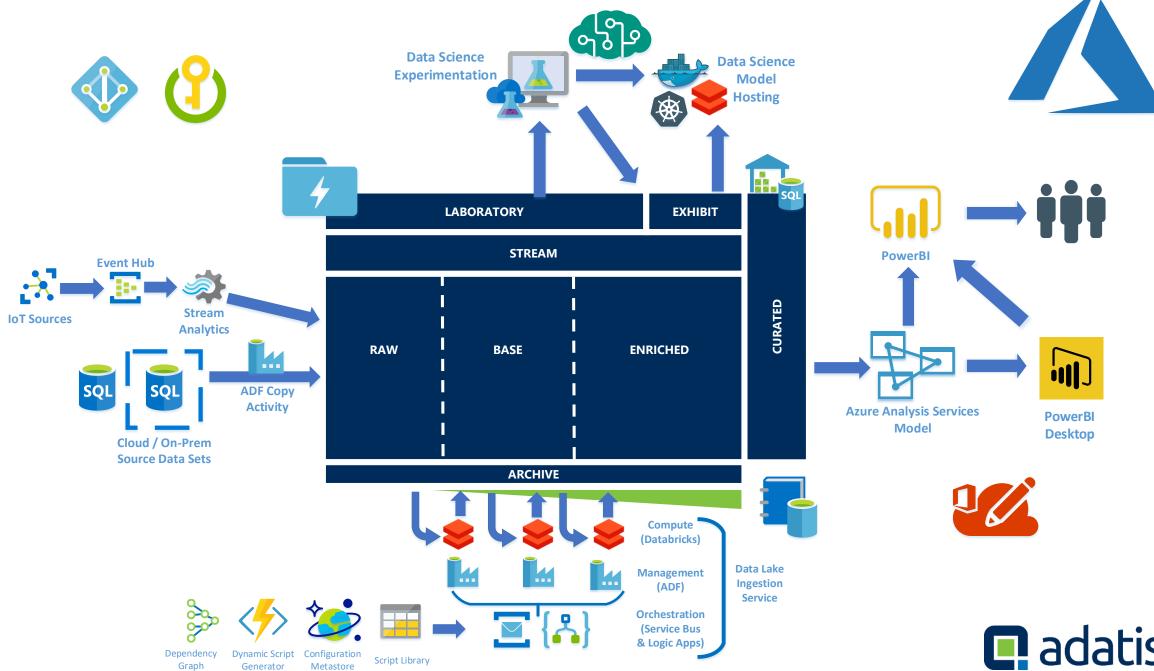




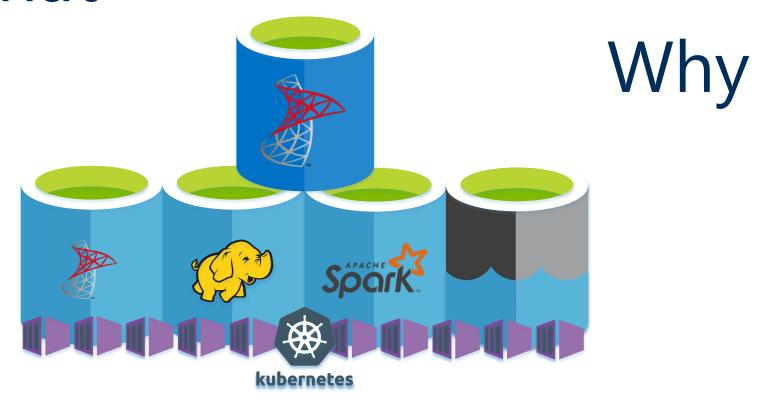


#### On Premises

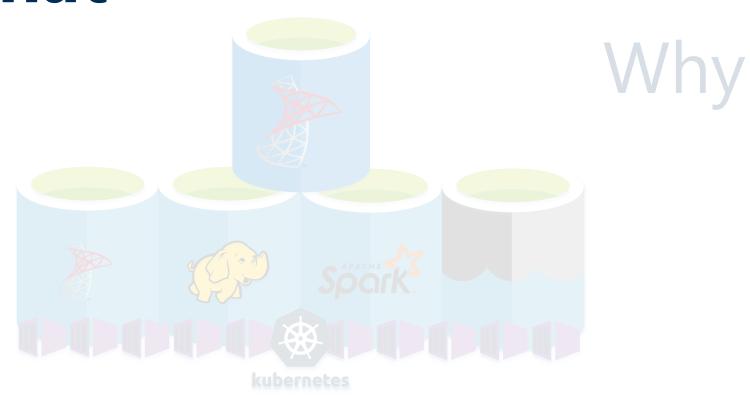














#### **SQL Server - Product Evolution**

Azure SQL Database (SQLDB)



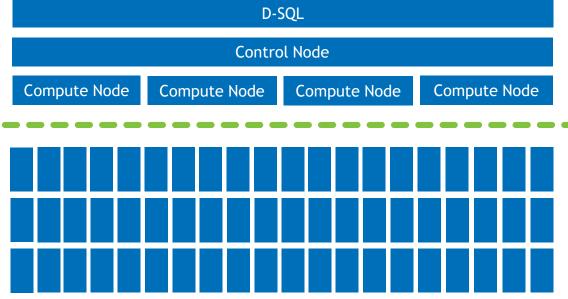
T-SQL

Compute Node

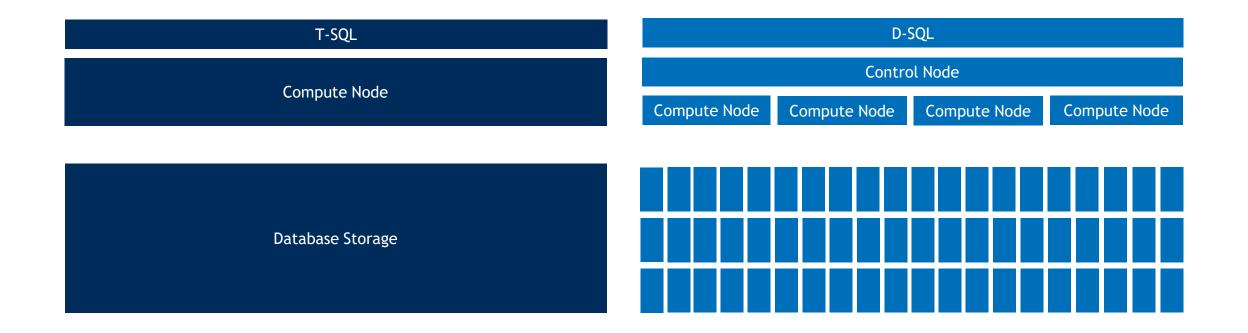


Azure SQL Data Warehouse (SQLDW)



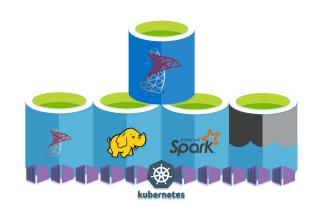


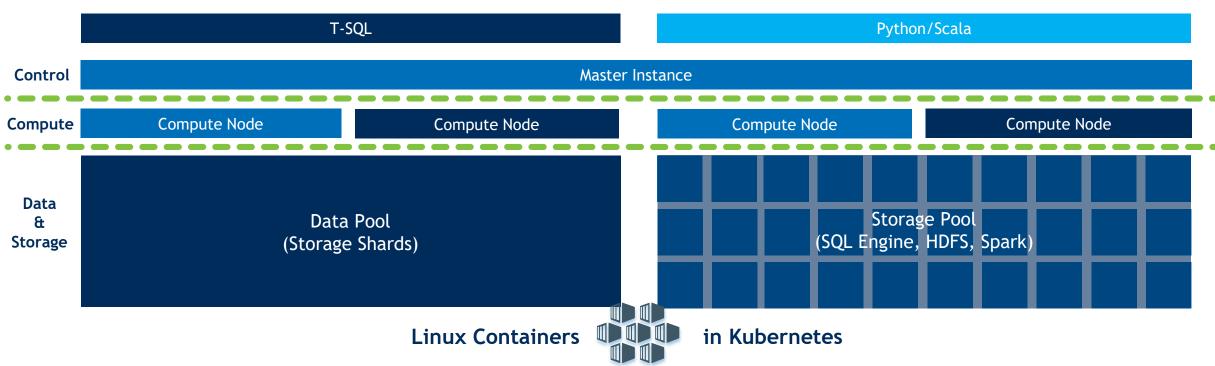
#### **SQL Server - Product Evolution**

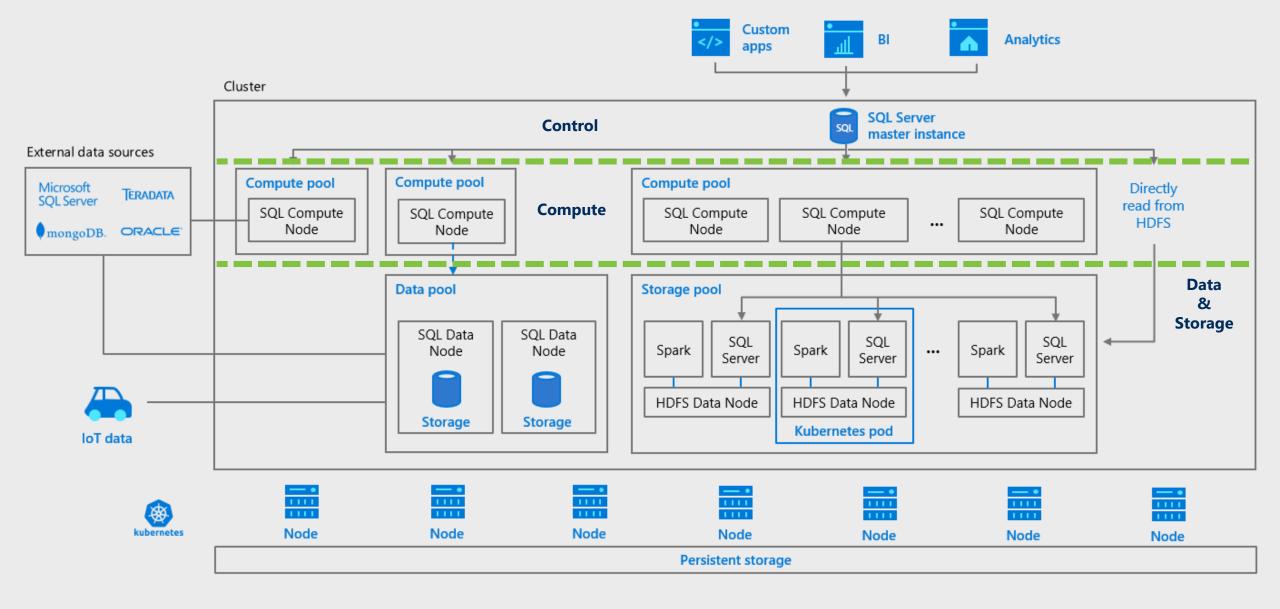


#### **SQL Server - Product Evolution**

#### **SQL Server 2019 Big Data Cluster**

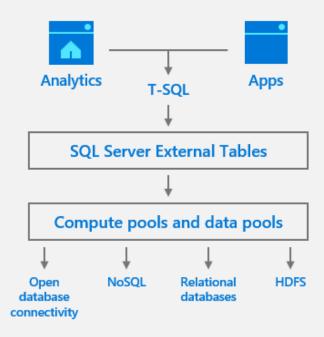








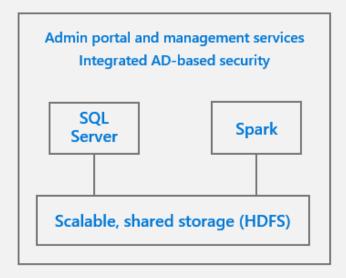
#### **Data virtualization**



Combine data from many sources without moving or replicating it

Scale out compute and caching to boost performance

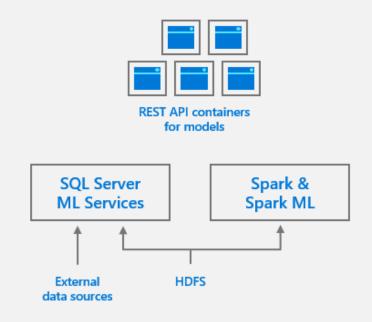
#### Managed SQL Server, Spark, and data lake



Store high volume data in a data lake and access it easily using either SQL or Spark

Management services, admin portal, and integrated security make it all easy to manage

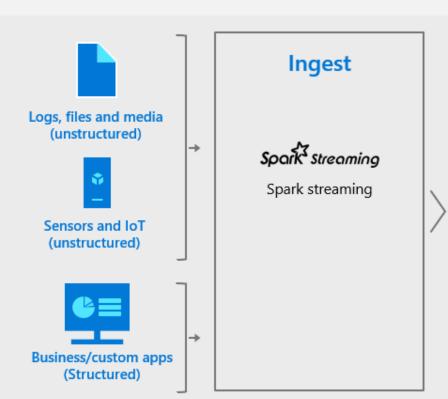
#### Complete AI platform

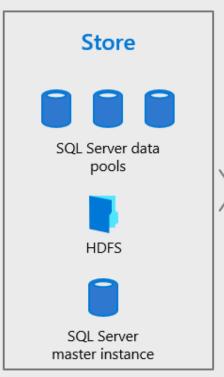


Easily feed integrated data from many sources to your model training

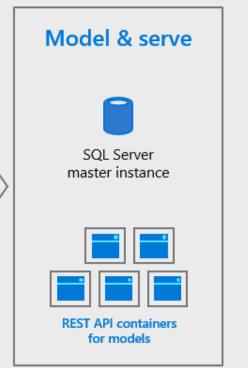
Ingest and prep data and then train, store, and operationalize your models all in one system



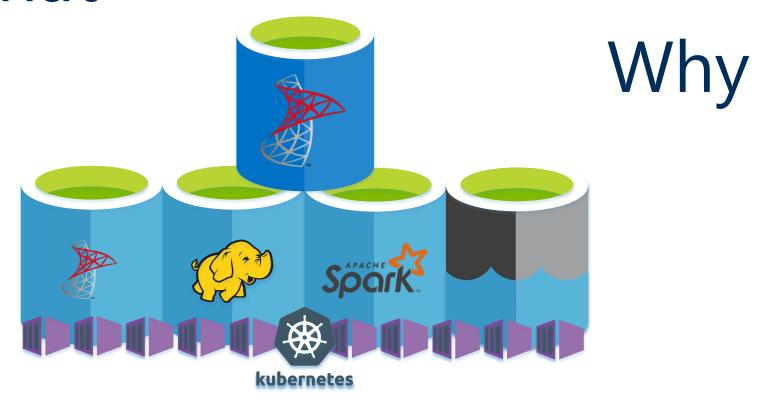




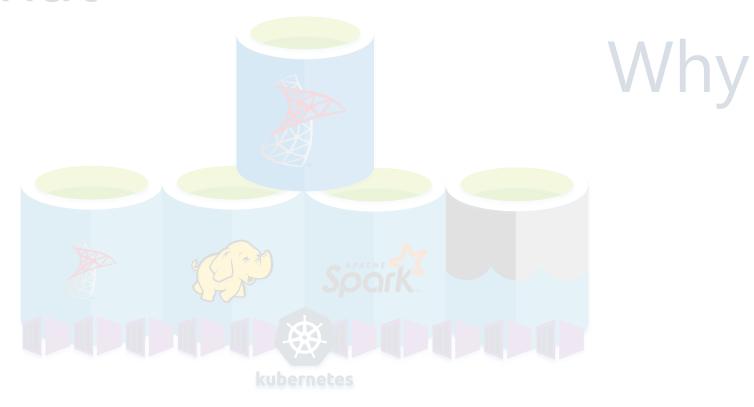










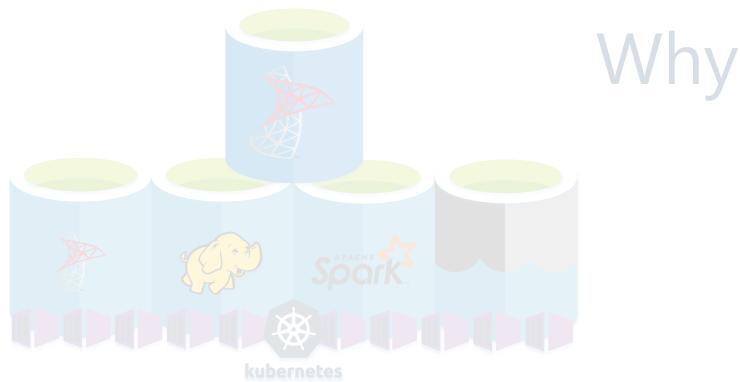




# What Why

How...does a SQL Server Big Data Cluster address our big data problems?
do we implement this new product architecture?

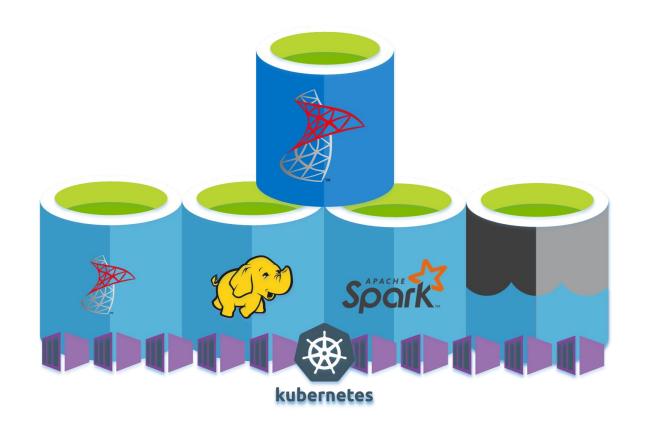
adatis



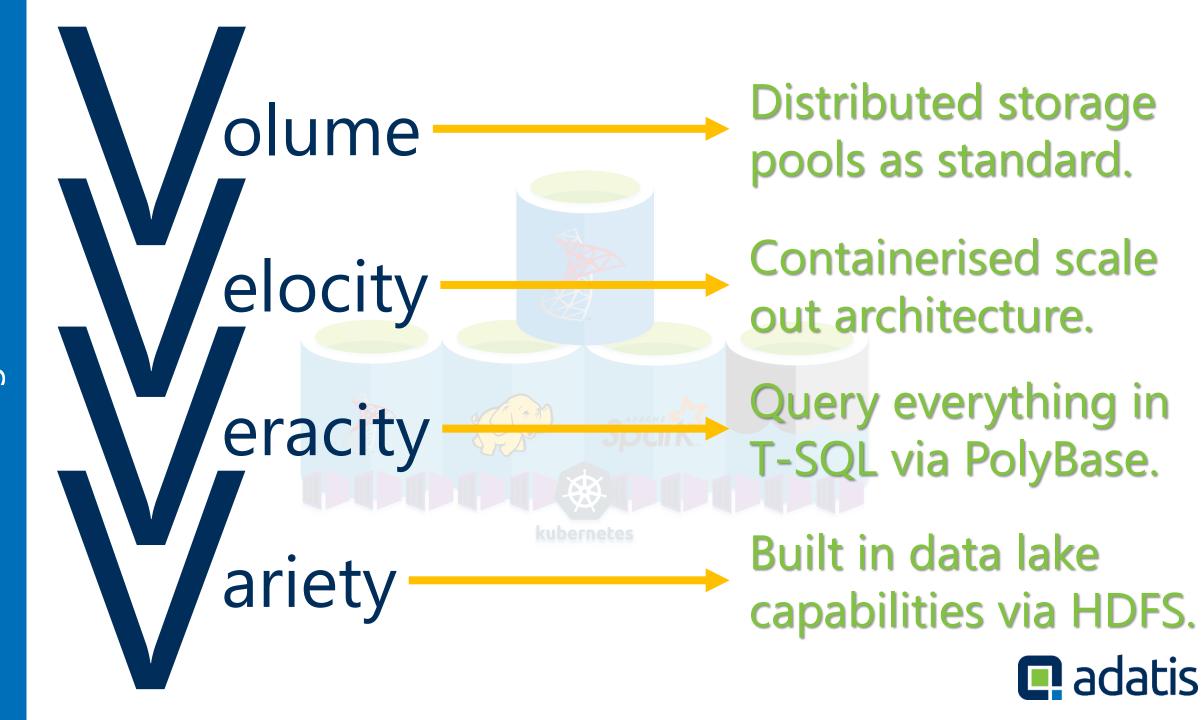
does a SQL Server Big Data Cluster address our big data problems?

do we implement this new product architecture?







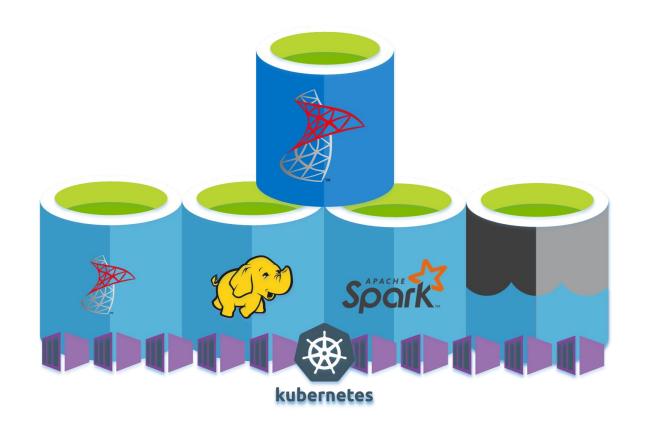


# What Why

**HOW.** does a SQL Server Big Data Cluster address our big data problems?

do we implement this new product architecture?







### kubernetes



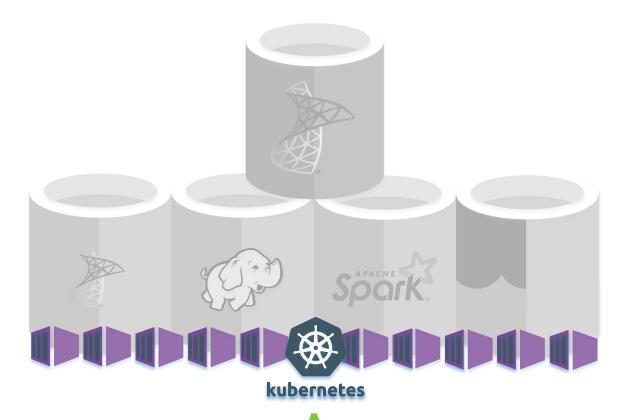
## minikube



### kubernetes











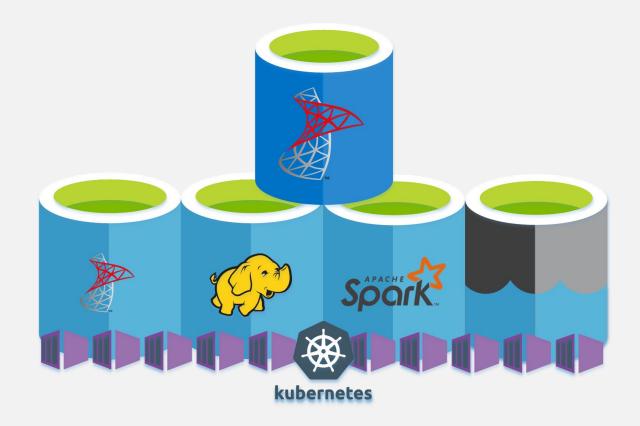


# adatis

#### **SQL Server 2019 Big Data Clusters**

Cloud tech, using cloud concepts, now available on premises.

Not only cloud.





#### **Reference Material**

What's new in SQL Server 2019?

https://docs.microsoft.com/en-us/sql/sql-server/what-s-new-in-sql-server-ver15?view=sql-server-ver15

SQL Server 2019 White Paper

https://info.microsoft.com/ww-landing-SQLDB-Microsoft-SQL-Server-WhitePaper.html

Introducing SQL Server 2019 Big Data Clusters – Travis Wright

https://cloudblogs.microsoft.com/sqlserver/2018/09/25/introducing-microsoft-sql-server-2019-big-data-clusters/

MS Ignite Session – The future of querying big data with PolyBase and SQL Server <a href="https://myignite.techcommunity.microsoft.com/sessions/66201">https://myignite.techcommunity.microsoft.com/sessions/66201</a>

MS Ignite Session – Deep dive on SQL Server and big data <a href="https://myignite.techcommunity.microsoft.com/sessions/65967">https://myignite.techcommunity.microsoft.com/sessions/65967</a>

How to deploy SQL Server big data cluster on Kubernetes <a href="https://docs.microsoft.com/en-us/sql/big-data-cluster/deployment-guidance?view=sql-server-ver15">https://docs.microsoft.com/en-us/sql/big-data-cluster/deployment-guidance?view=sql-server-ver15</a>

Deploy SQL Server big data cluster on Azure Kubernetes Service

https://docs.microsoft.com/en-us/sql/big-data-cluster/quickstart-big-data-cluster-deploy?view=sql-server-ver15

## Thanks for Listening

#### **Paul Andrew**







Email: paul@mrpaulandrew.com

**Blog:** mrpaulandrew.com

GitHub: github.com/mrpaulandrew

