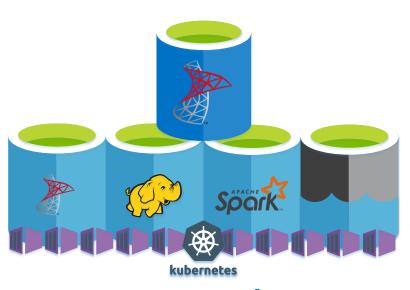
Paul Andrew | Senior Data Analytics Consultant & Data Platform | Microsoft Most Valuable Professional | Myr Microsoft | Micros



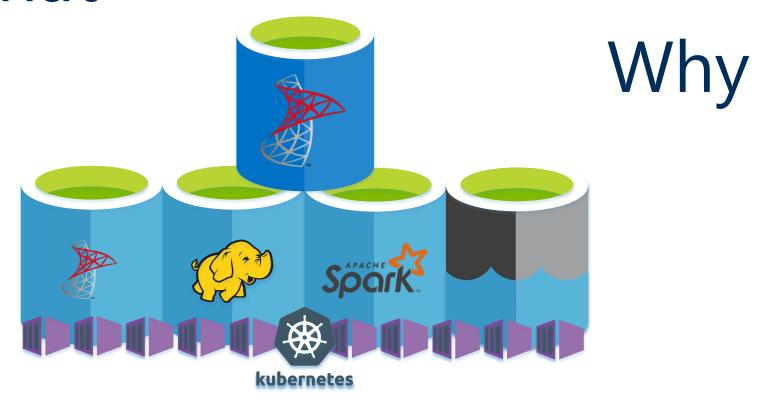




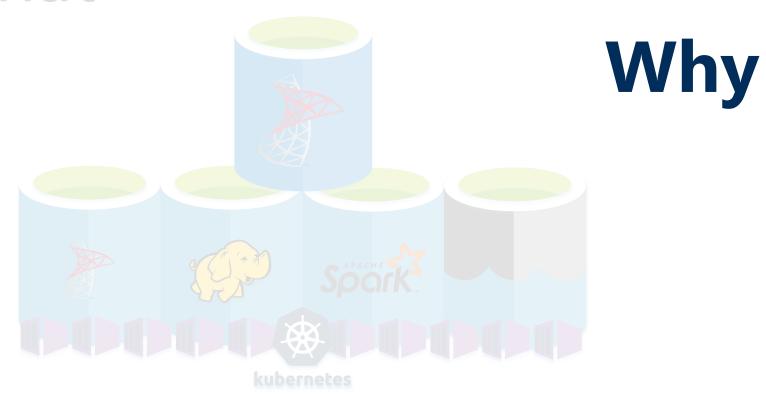
Big Data Clusters





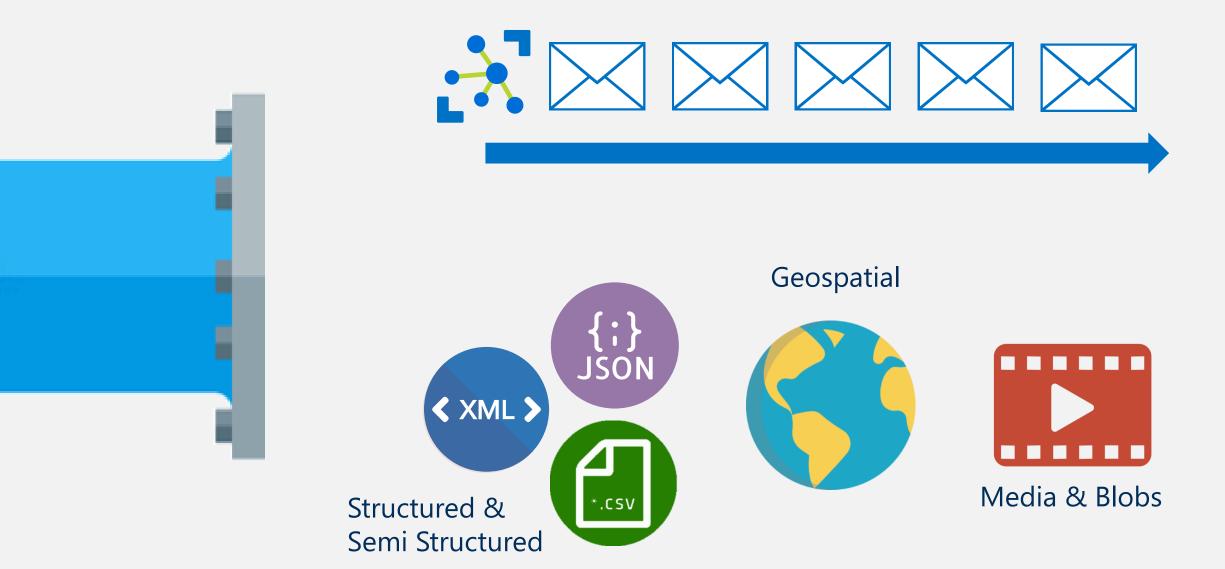




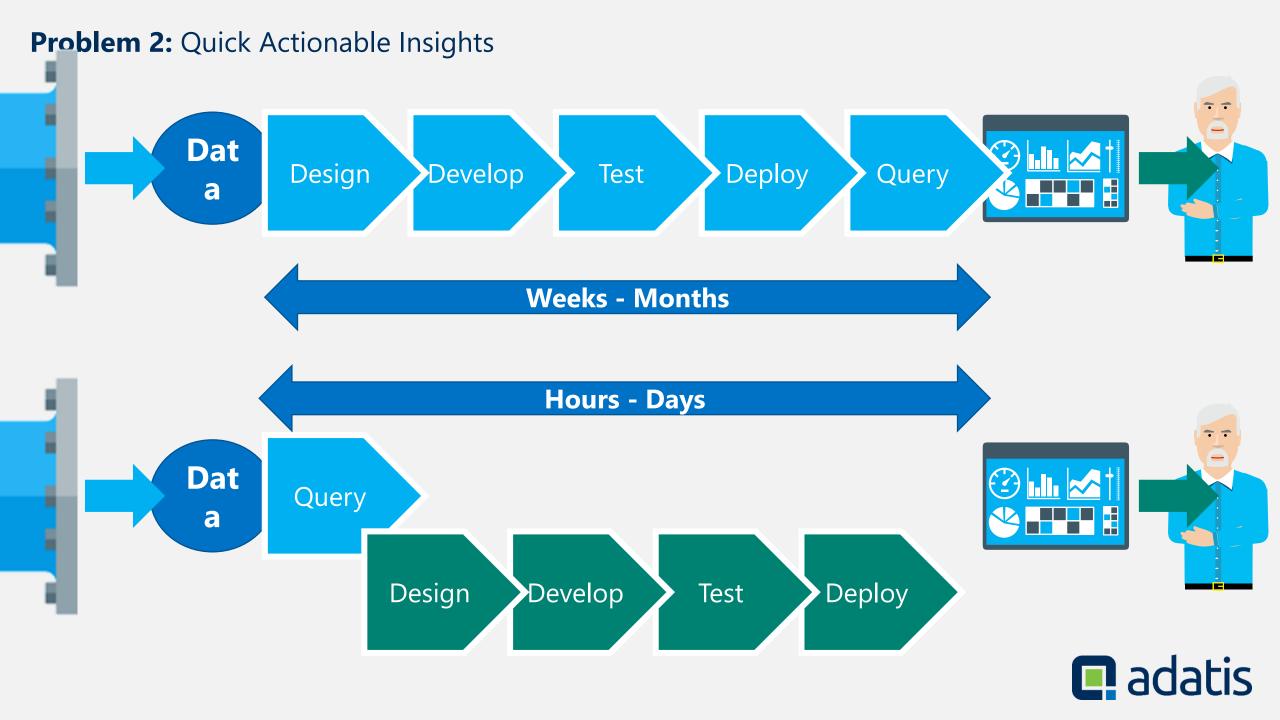




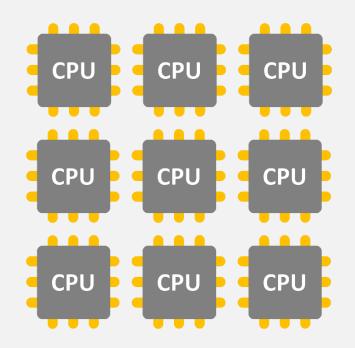
**Problem 1:** All Forms of Data Structure

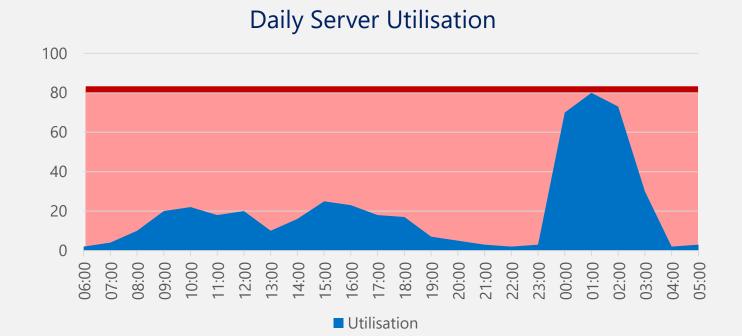






#### **Problem 3:** Infrastructure Costs & Scalability



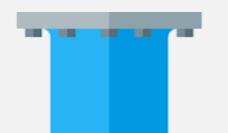




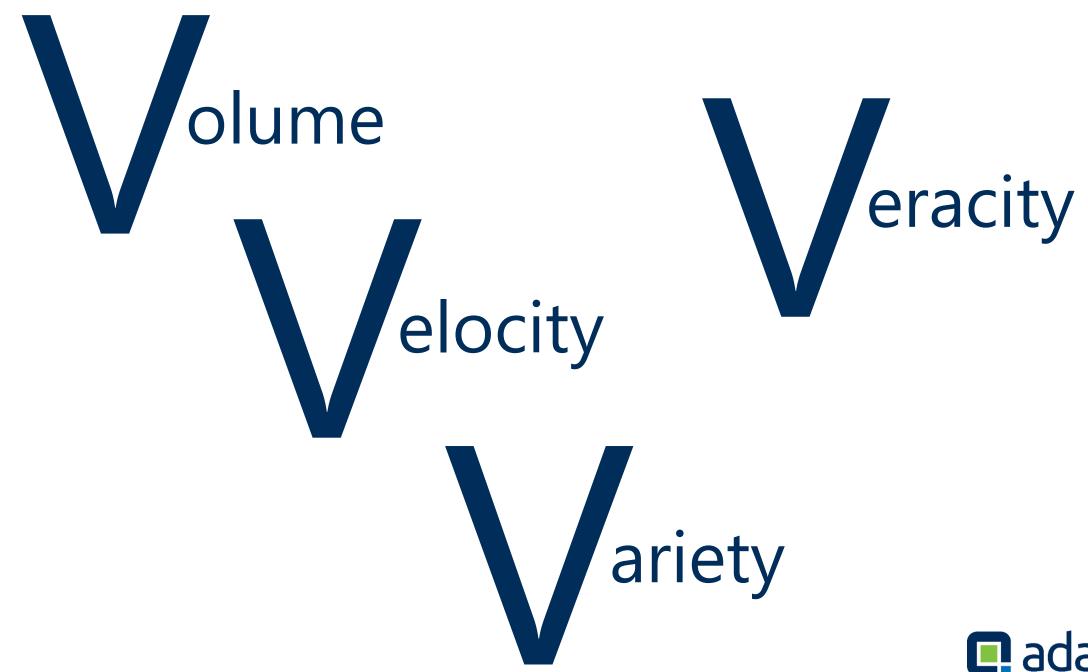




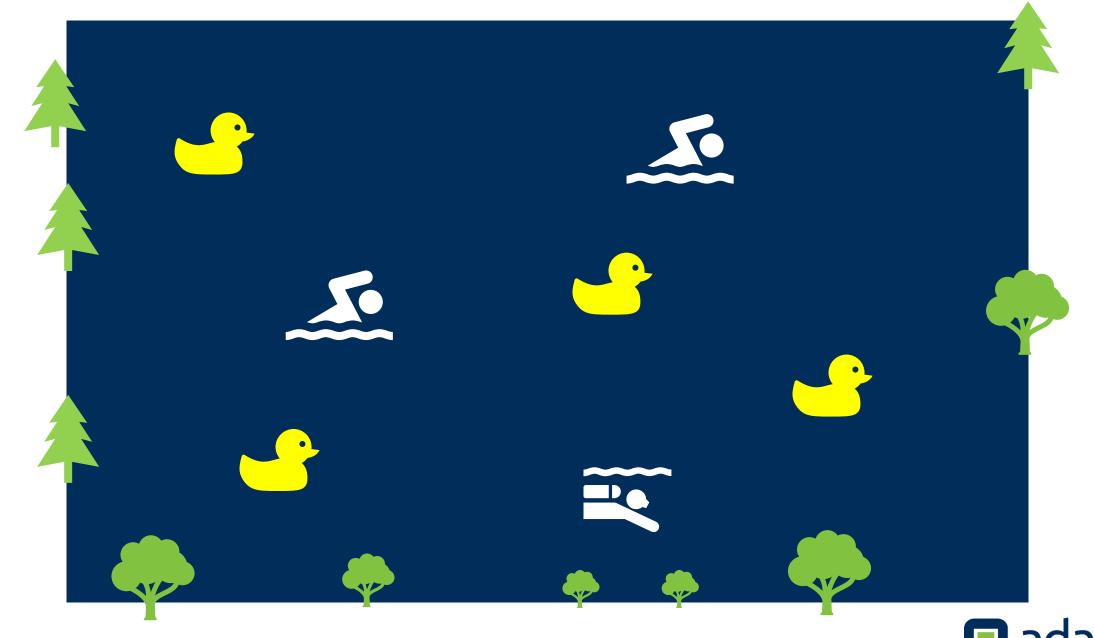








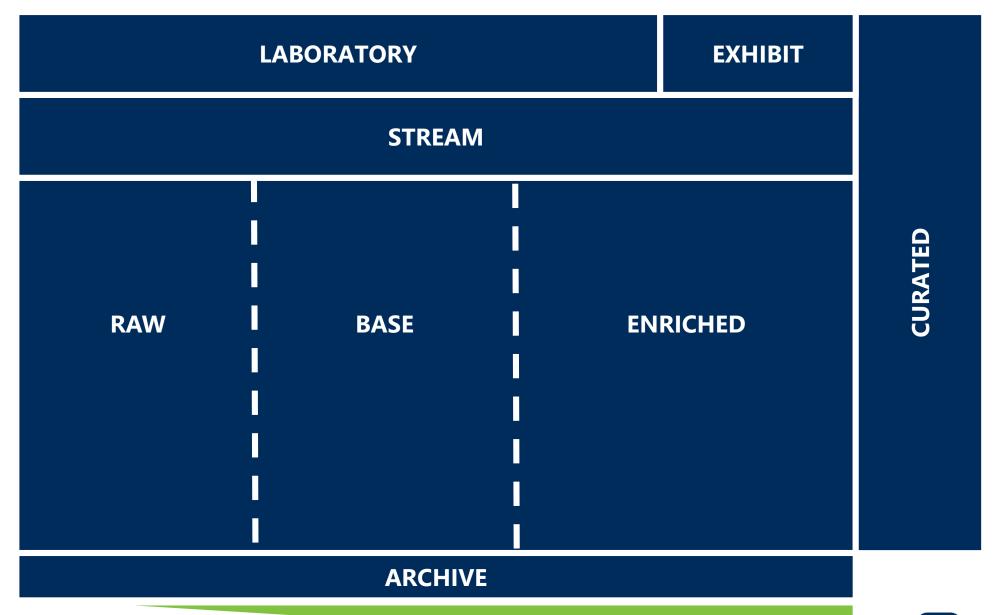




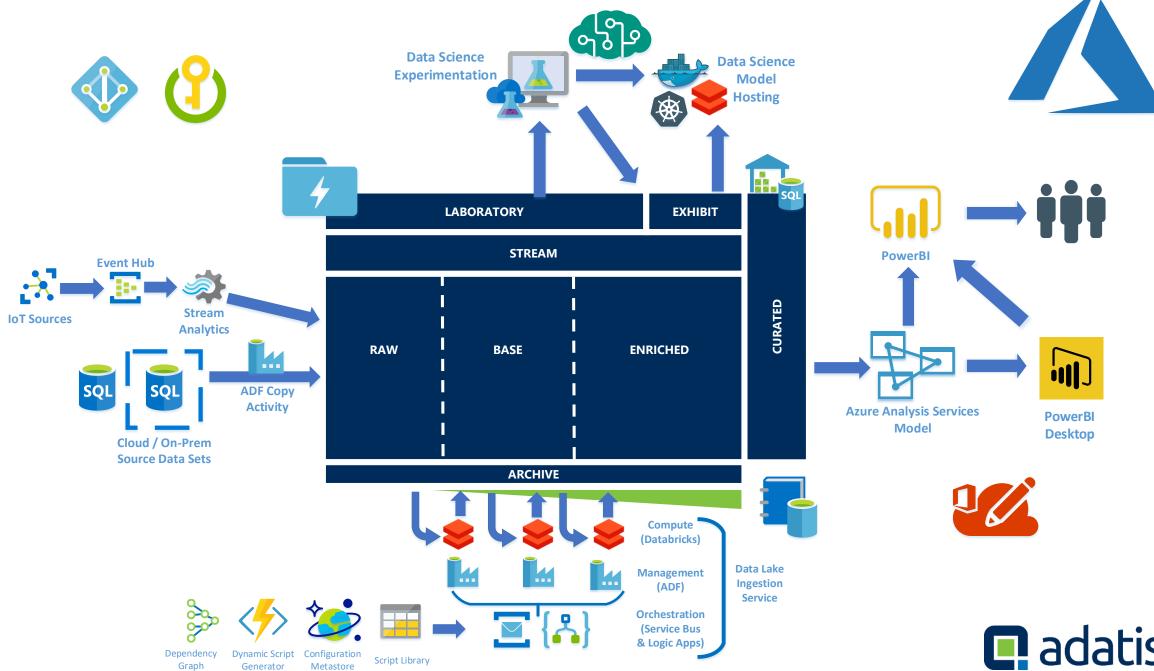




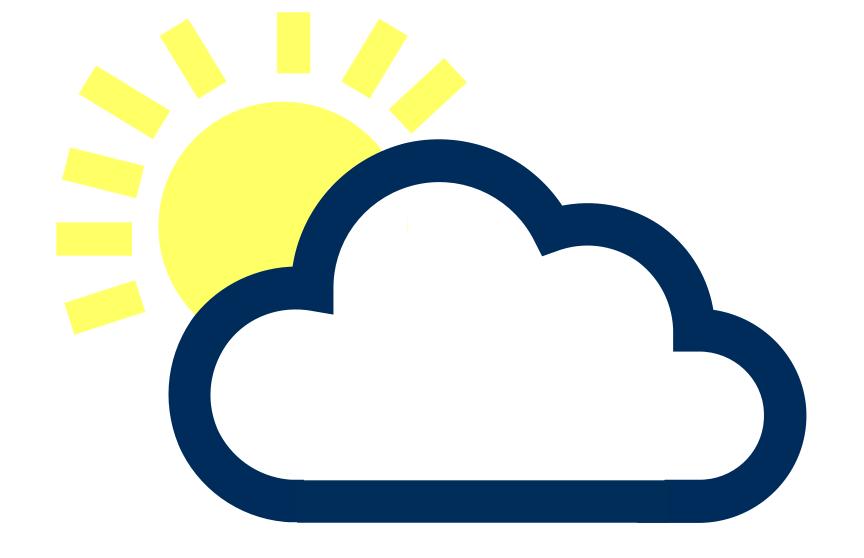










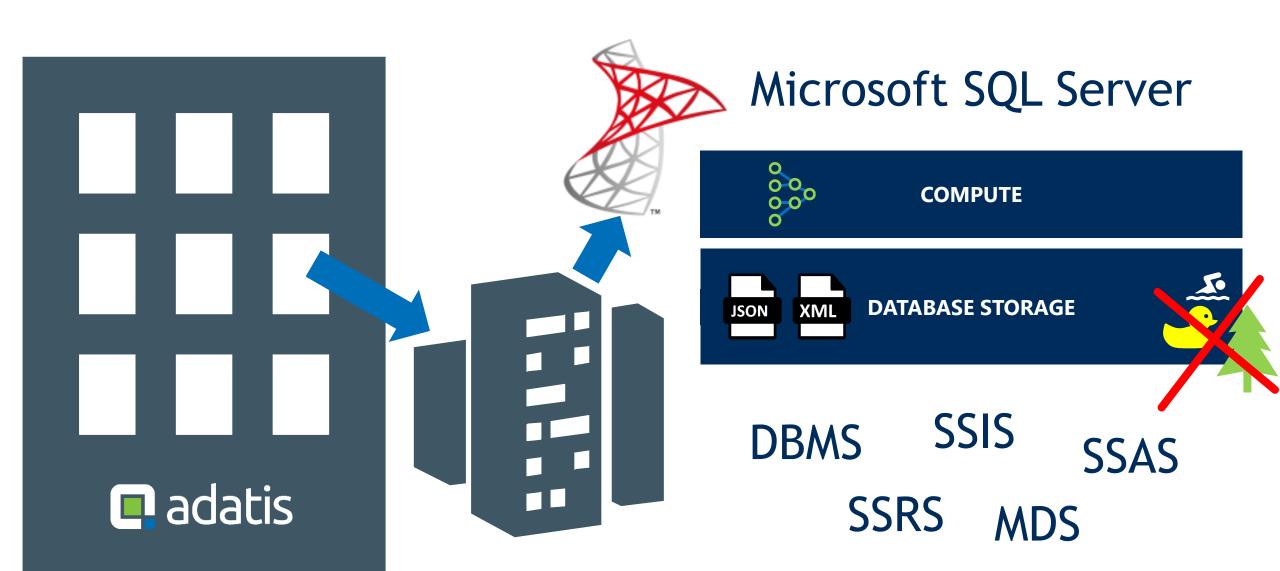


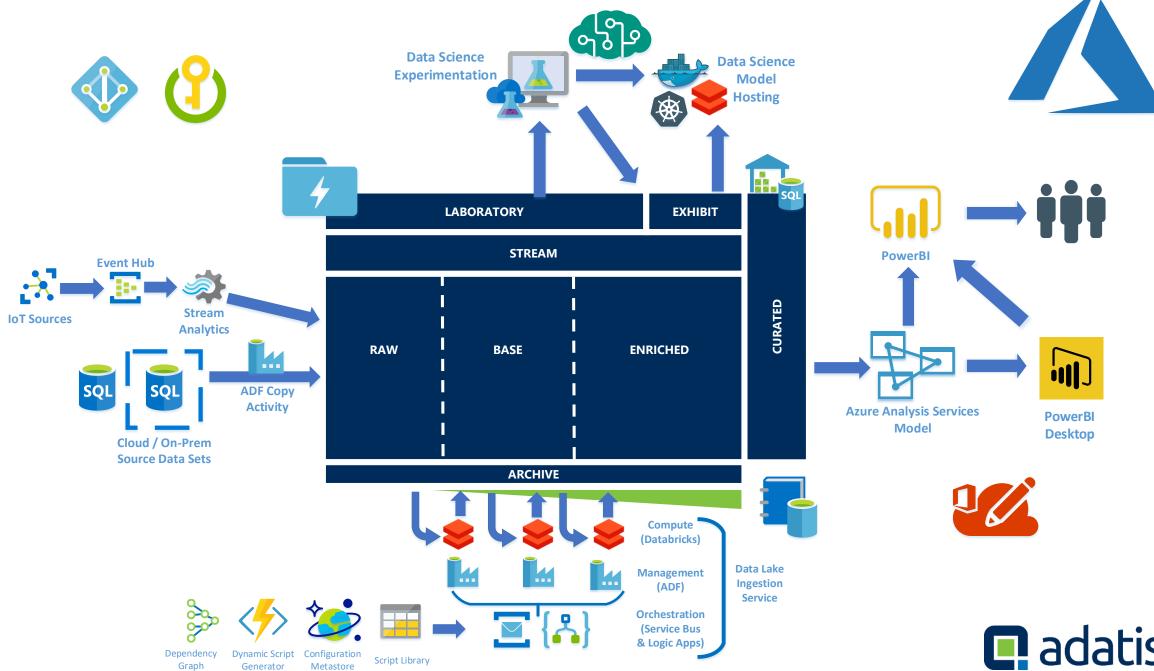




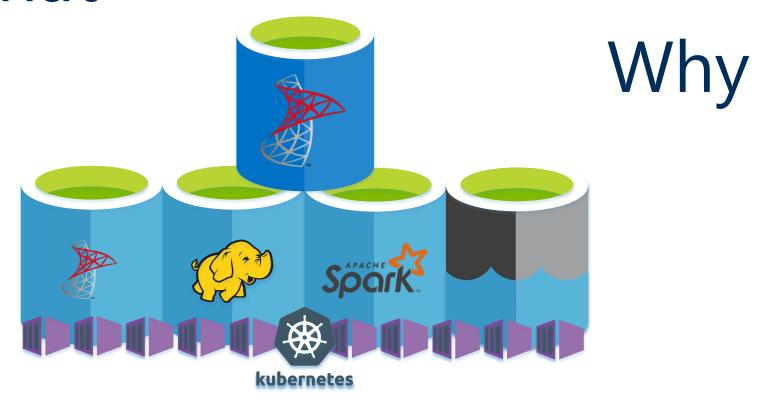


#### On Premises

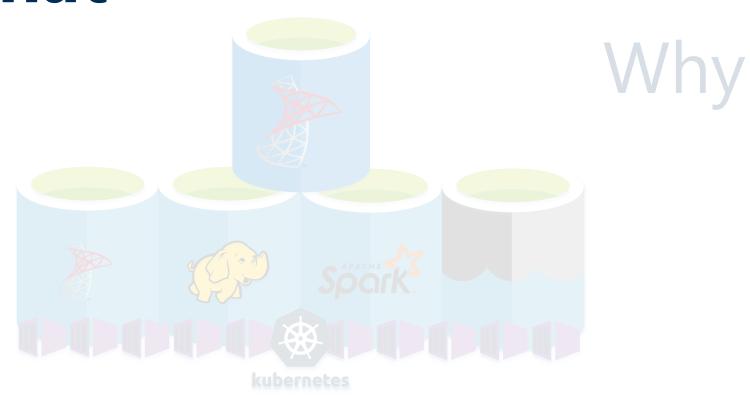




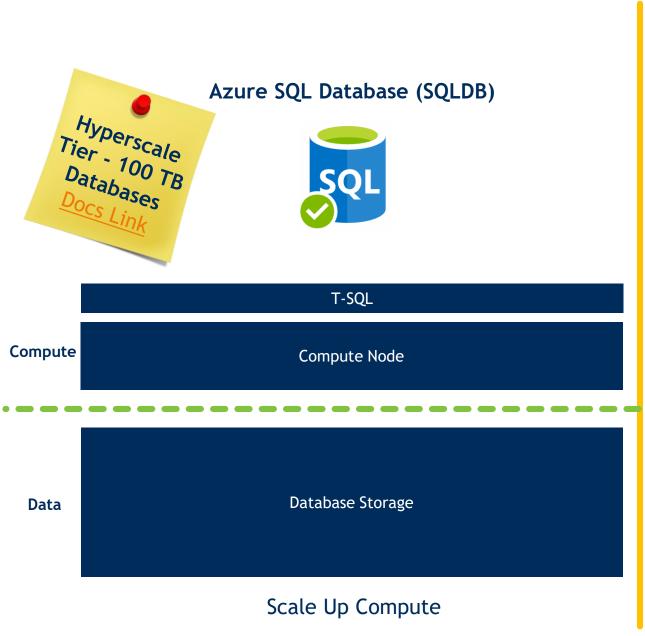






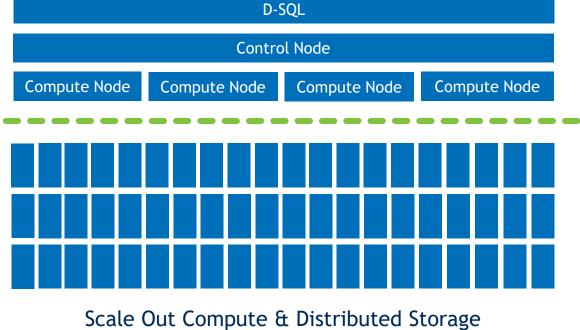


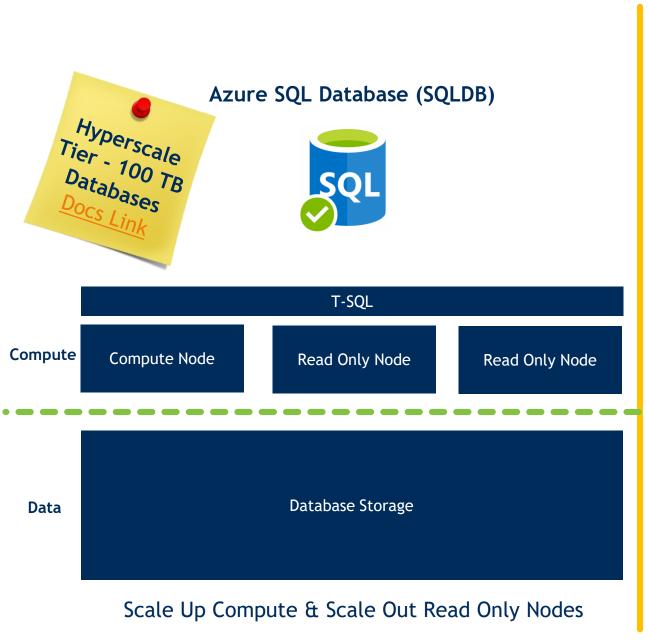




Azure SQL Data Warehouse (SQLDW)

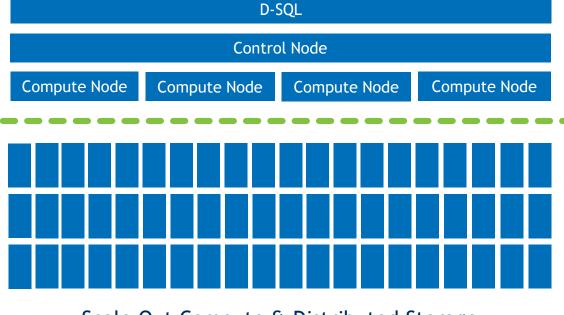




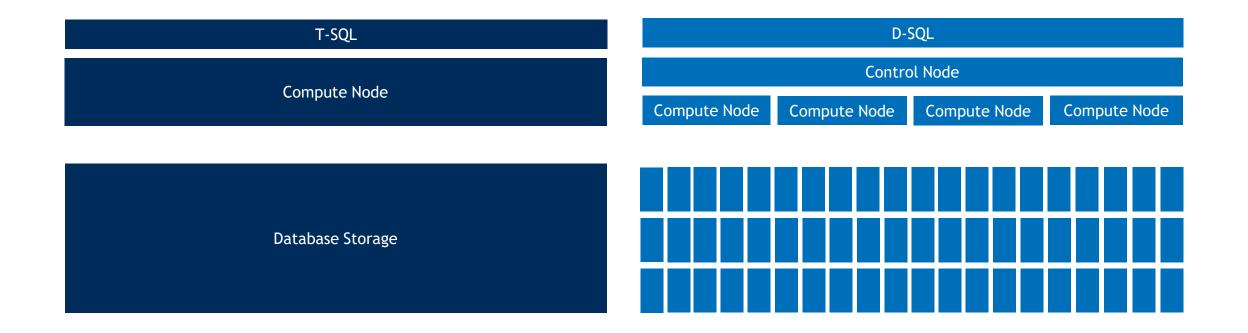


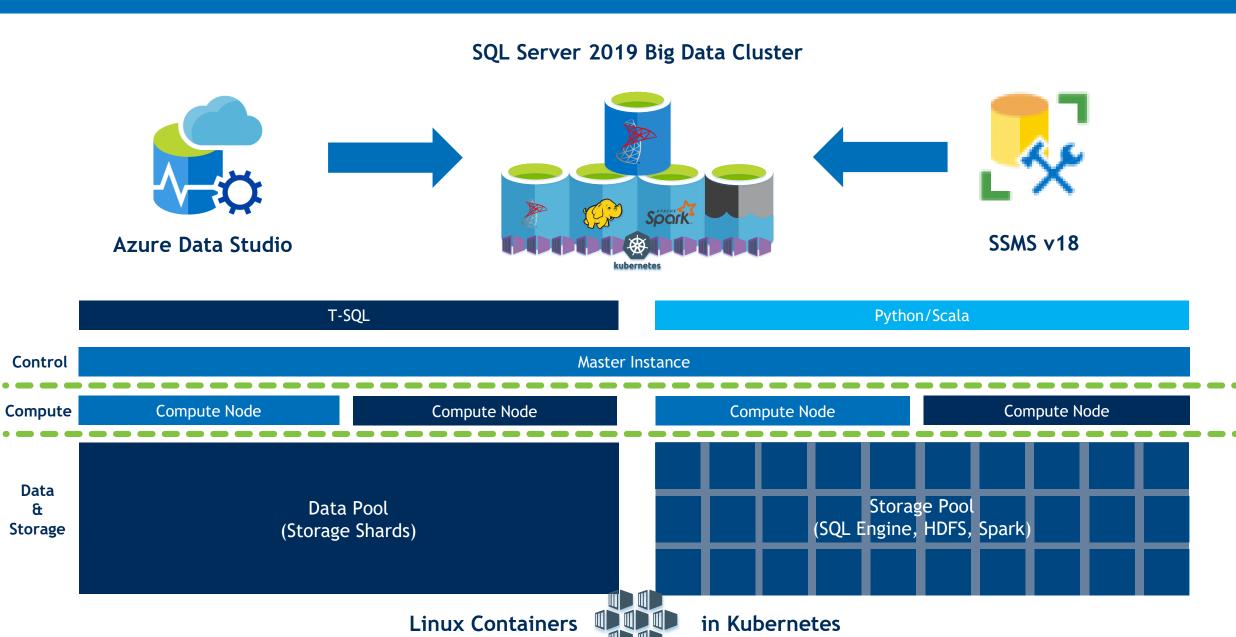
Azure SQL Data Warehouse (SQLDW)

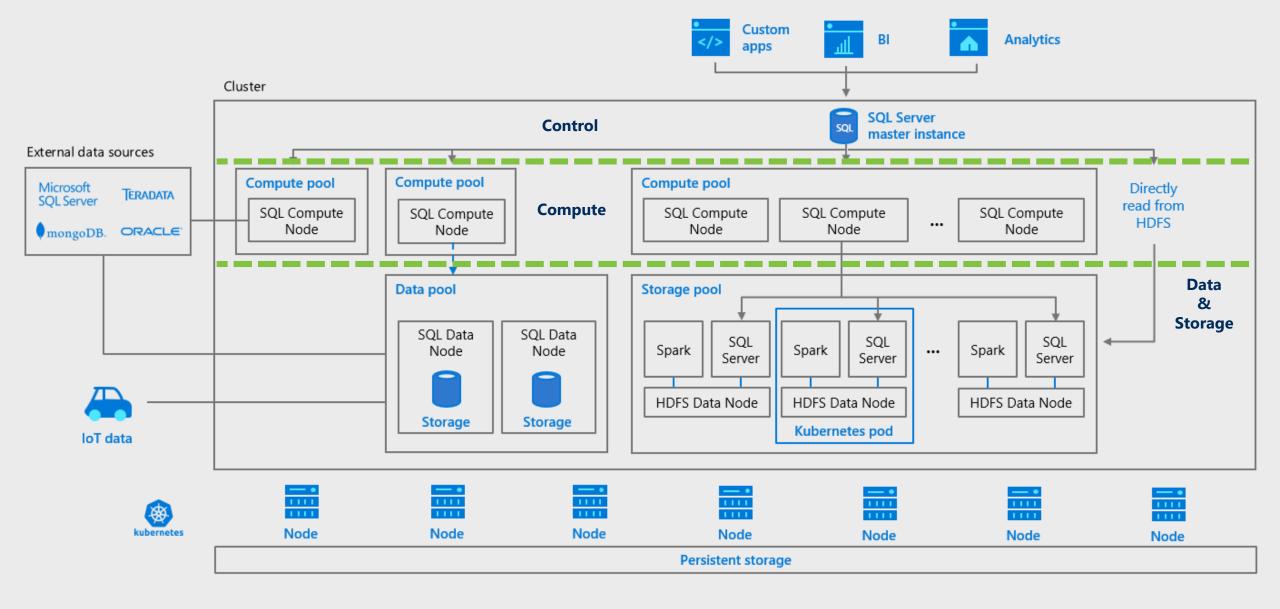




Scale Out Compute & Distributed Storage

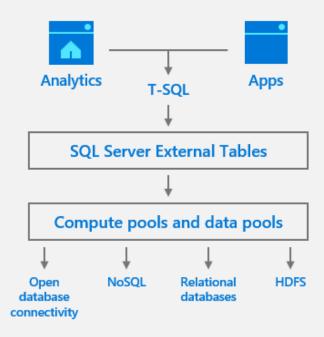








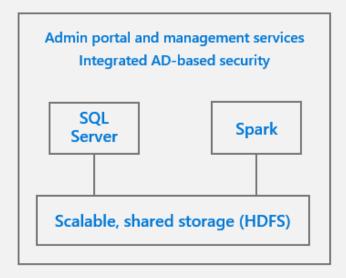
#### **Data virtualization**



Combine data from many sources without moving or replicating it

Scale out compute and caching to boost performance

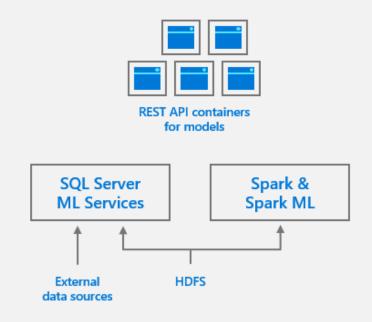
#### Managed SQL Server, Spark, and data lake



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

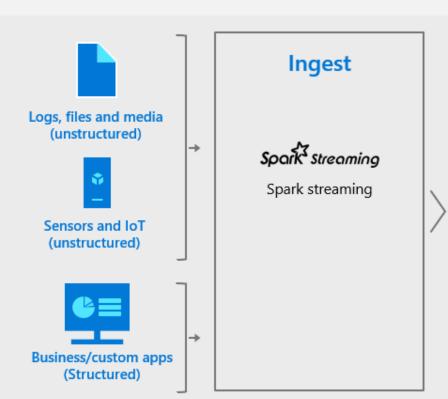
#### Complete AI platform

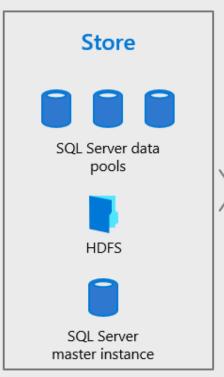


Easily feed integrated data from many sources to your model training

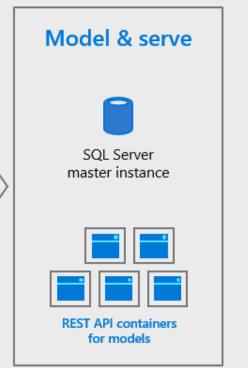
Ingest and prep data and then train, store, and operationalize your models all in one system



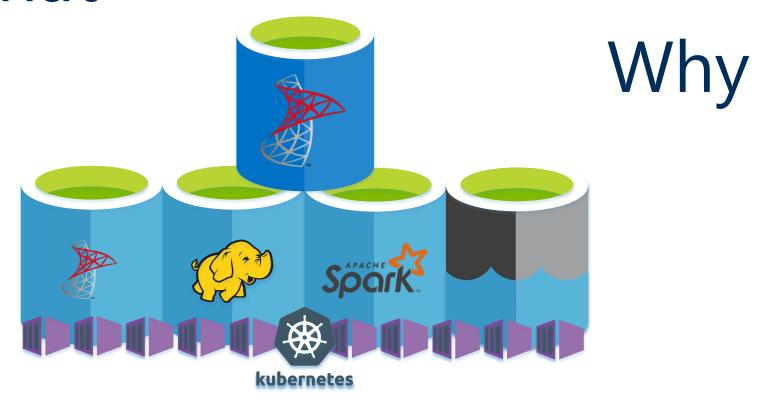




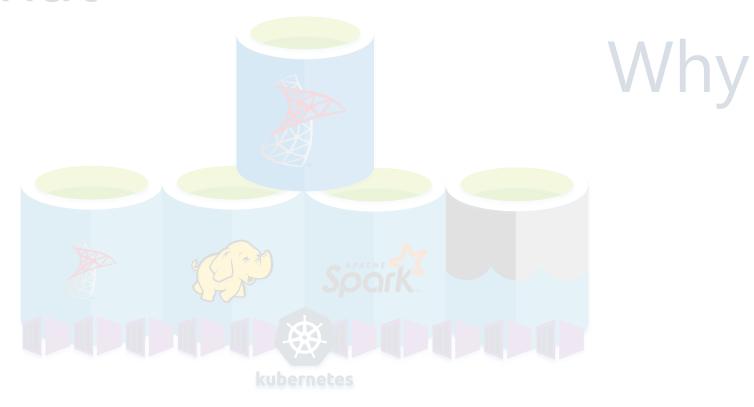










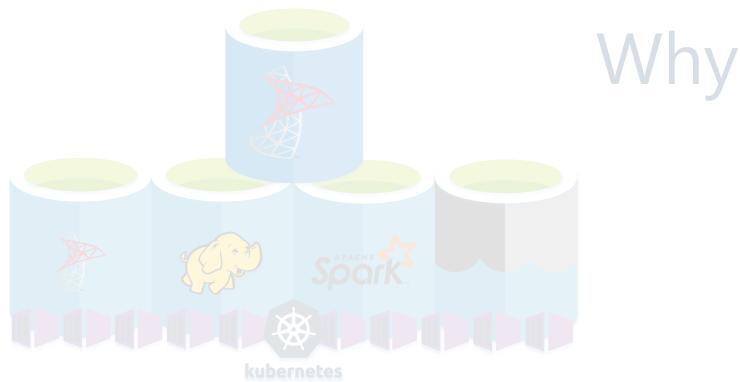




# What Why

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

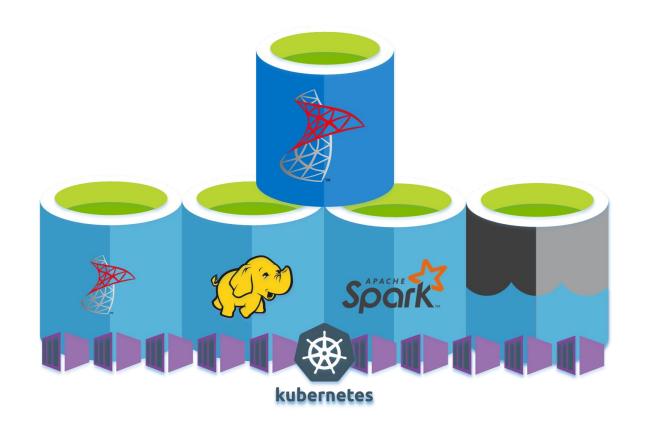
adatis



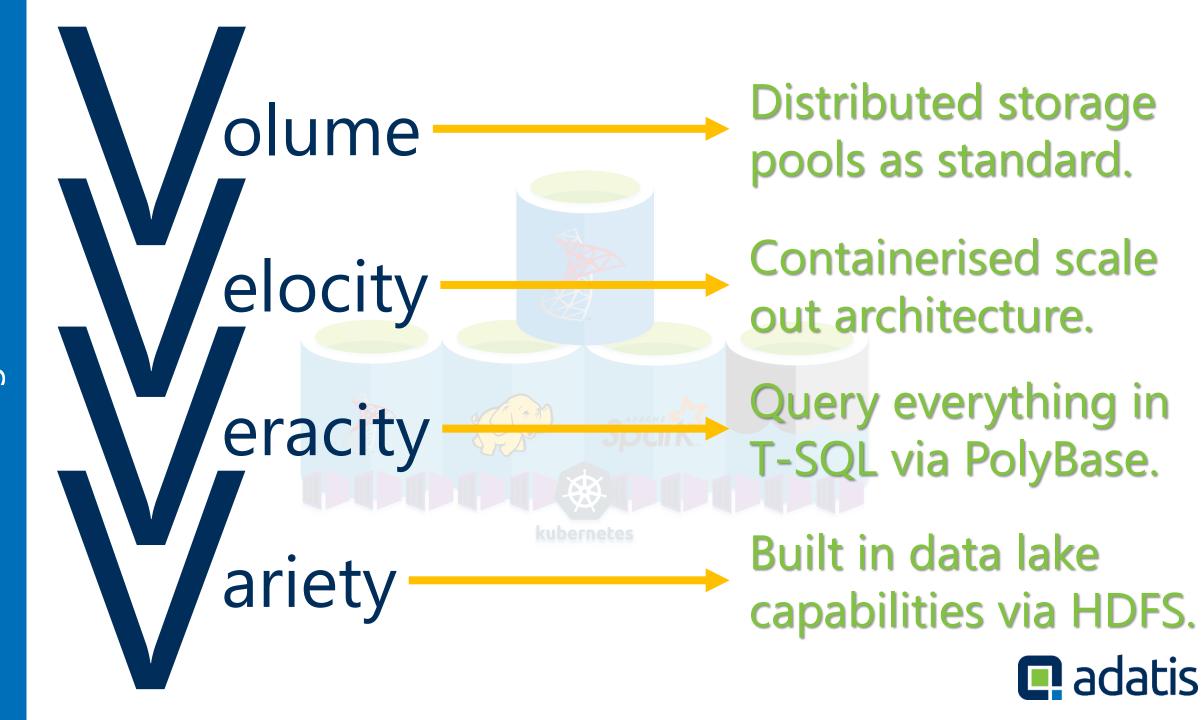
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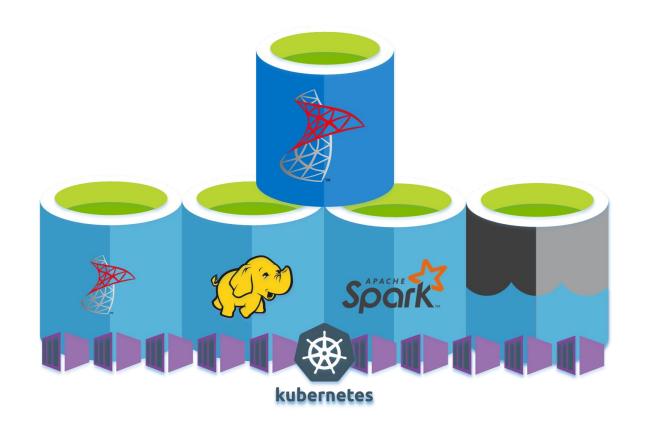


# What Why

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

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## kubernetes



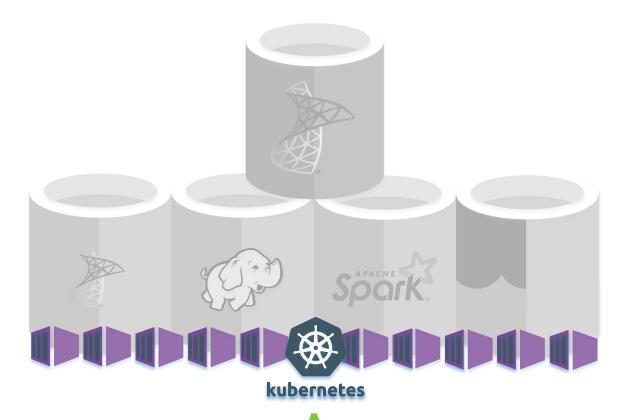
## minikube



### kubernetes











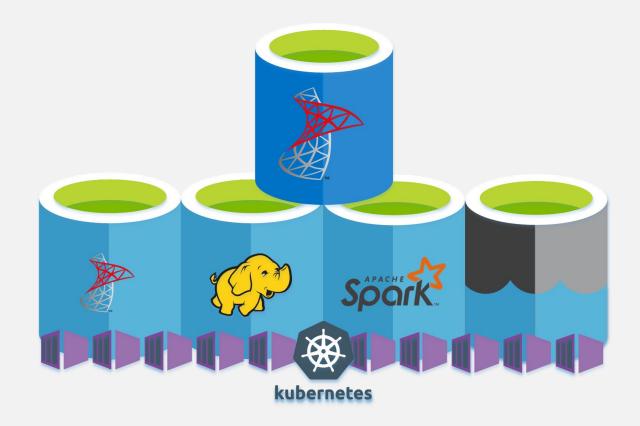


# adatis

#### **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

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GitHub: github.com/mrpaulandrew

