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July 20 & 21 2017

Tulsa OK



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Big Data in Azure

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About Me



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Session Objective

This session will provide an overview of the different big data services available in Azure. We will discuss how they can be used together to provide a complete big data workflow for both human-born and machine-born data.

Tools

Ingestion



Data Factory



HDInsight Sqoop



Event Hub



HDInsight Apache Kafka



Stream Analytics



HDInsight
Apache Storm

Store



Storage



SQL Database



Data Lake Store

Preparation



Data Lake Analytics



HDInsight Hadoop/Spark



SQL Data Warehouse



Analysis Services



Machine Learning

Visualization



Power BI Pro
Power BI Embedded

What about?

SQL Server SSIS Tableau Oracle SSRS SAP Business Objects MySQL

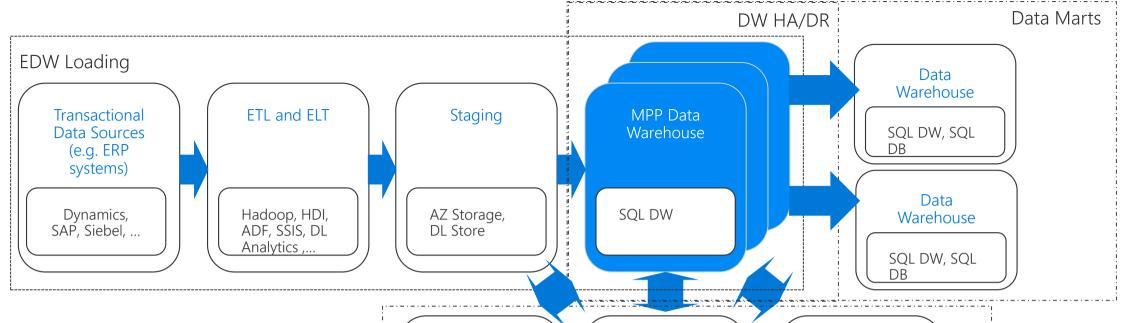
(your favorite tool here)

Qlik

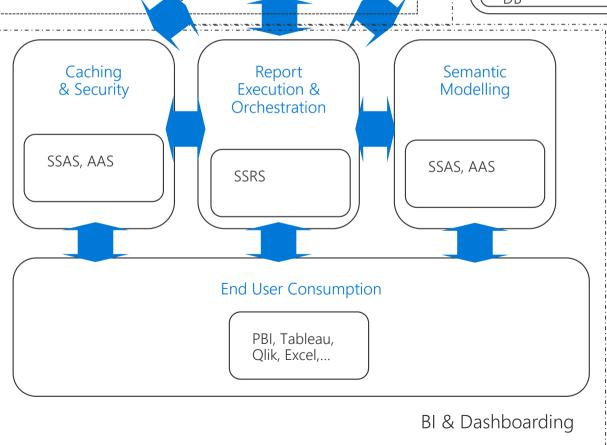
Patterns

Human-Born Pattern

- · Examples: orders, sales, financial, customers, marketing
- · Modeling: Dimensional models (e.g. Kimball)
- · Queries: Star joins with grouping and aggregation
- · Loading: Periodic incremental load batches

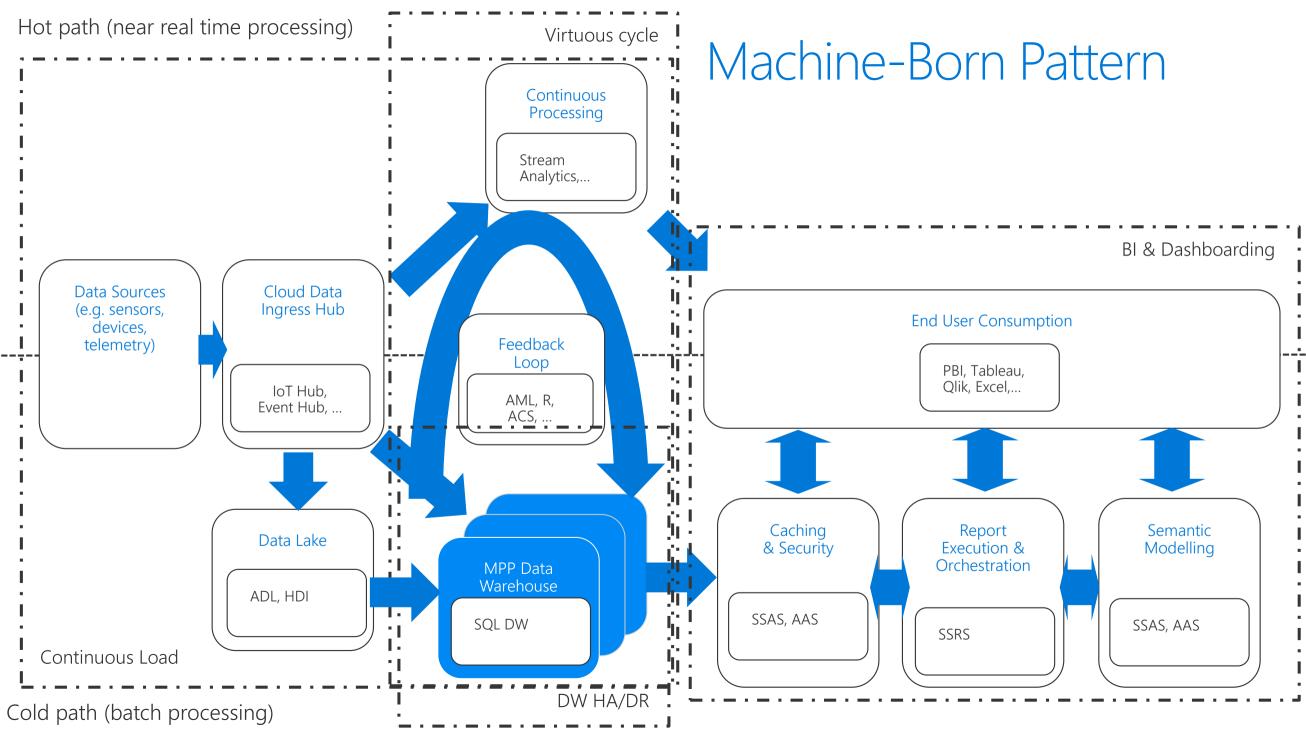


Human-Born Pattern



Machine-Born Pattern

- · Examples: device telemetry, log records, IoT data
- · Modeling: Oftentimes de-normalized
- Queries: Data ranges combined with string and pattern search
- Loading: Ideally continuous loads



Wrap up

Call to Action

- Play with these services in Azure
- · Let us know what you think http://feedback.azure.com
- · Evaluate workloads that you have that this would help with

Thank you! Your Feedback is Important

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