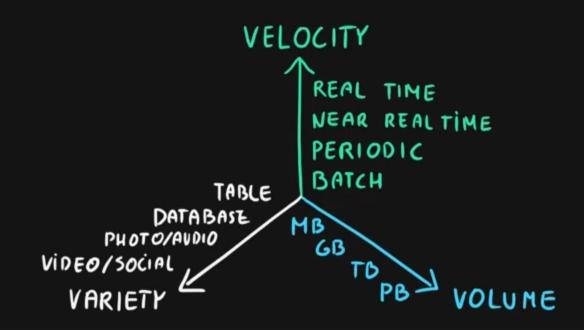
Big Data and Analytics

Skills Learned

- Describe Big Data and Analytics products such as
 - Azure Synapse Analytics
 - Azure HDInsight
 - Azure Databricks

Big Data is a field that of technology that helps with extraction, processing and analysis of information that is too large or complex to deal with traditional software.





Azure Synapse Analytics

Azure Synapse Analytics PIPELINES STUDIO Spork SYNAPSE SQL SERVE SERVE B DEVELOPMENT

Key Characteristics

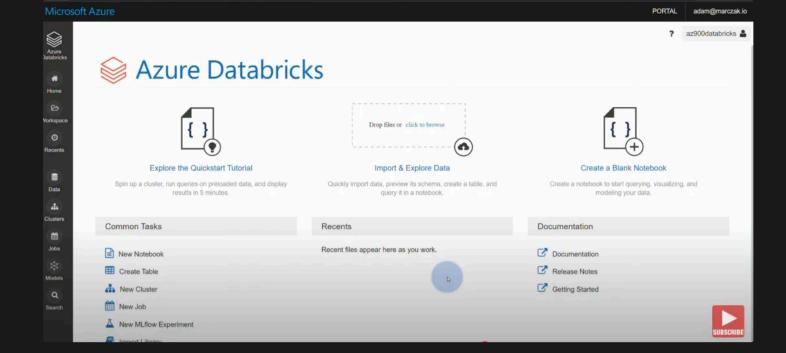
- Big data analytics platform (PaaS)
- Multiple components
 - Spark

DATABASES

- Synapse SQL
 - SQL pools (dedicated pay for provisioned performance)
 - SQL on-demand (ad-hoc pay for TB processed)
- Synapse Pipelines (Data Factory ETL)
- Studio (unified experience)







Key Characteristics



- Big data collaboration platform (PaaS)
- Unified workspace for notebook, cluster, data, access management and collaboration
- Based on Spark
- Integrates very well with common Azure data services

Summary



- Azure Synapse Analytics Modern workspace for end-2-end enterprise data warehousing & analytics with a lot of integrated tools like Data Factory, Spark, SQL, etc.
- Azure HDInsight Fully-managed open source analytics service with a lot of supported frameworks & tools like Hadoop, Spark, Kafka, Hive, etc.
- Azure Databricks Apache Spark based analytics platform for data transformation and collaborative analytics