Andre Essing

Azure Databricks, the data swiss army knife

From Datawarehouse, across BI, to modern data analysis and artificial intelligence

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A customer case

Andre Essing

Cloud Solution Architect

Microsoft Deutschland GmbH

Andre advises customers in topics all around the Microsoft Data Platform. Since version 7.0, Andre gathering experience with the SQL Server product family. Today Andre concentrates on working with data in the cloud, like Modern Data Warehouse architectures, Artificial Intelligence and new scalable database systems like Azure Cosmos DB.

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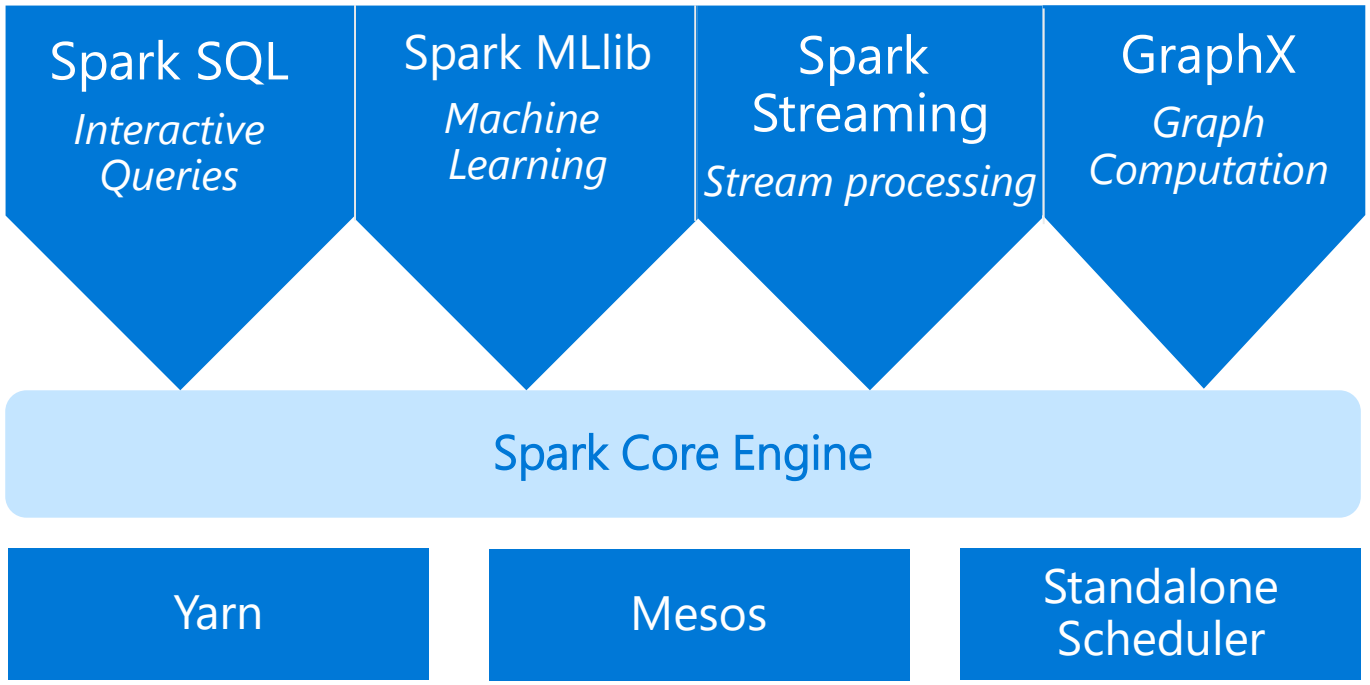
The problem

APACHE SPARK

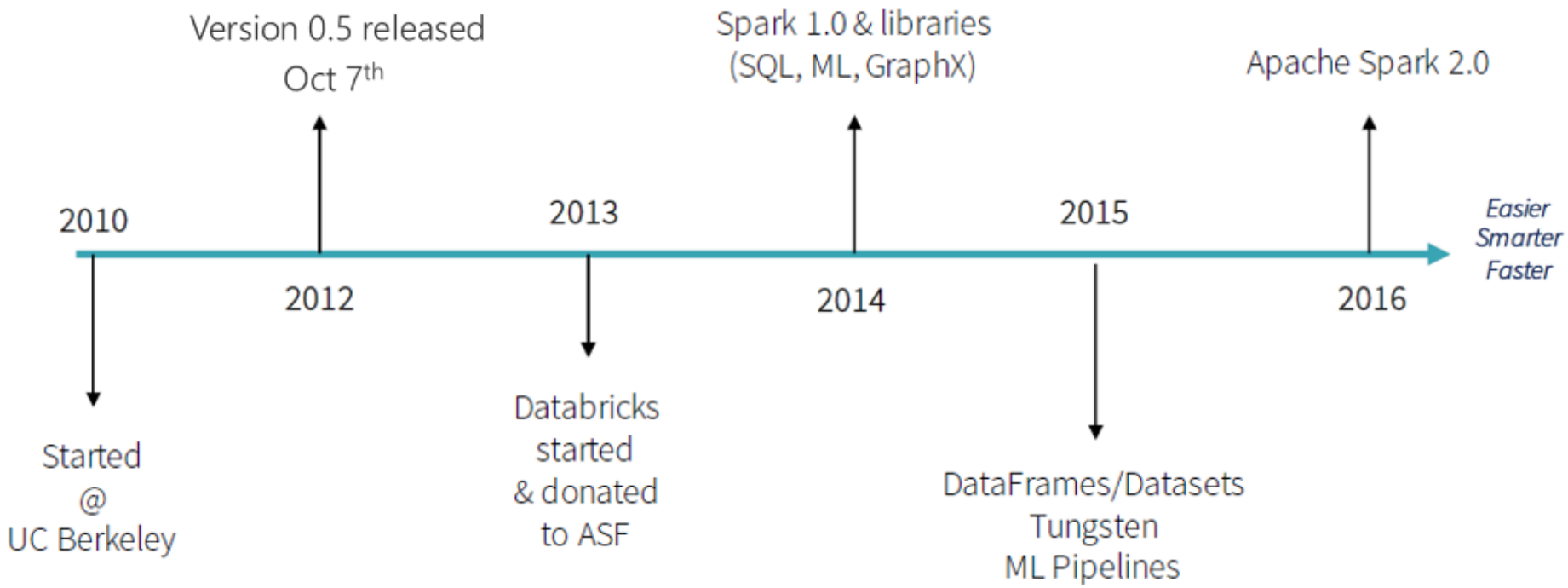
An unified, open source, parallel, data processing framework for Big Data Analytics

Spark Unifies:

- Batch Processing
- Interactive SQL
- Real-time processing
- Machine Learning
- Deep Learning
- Graph Processing

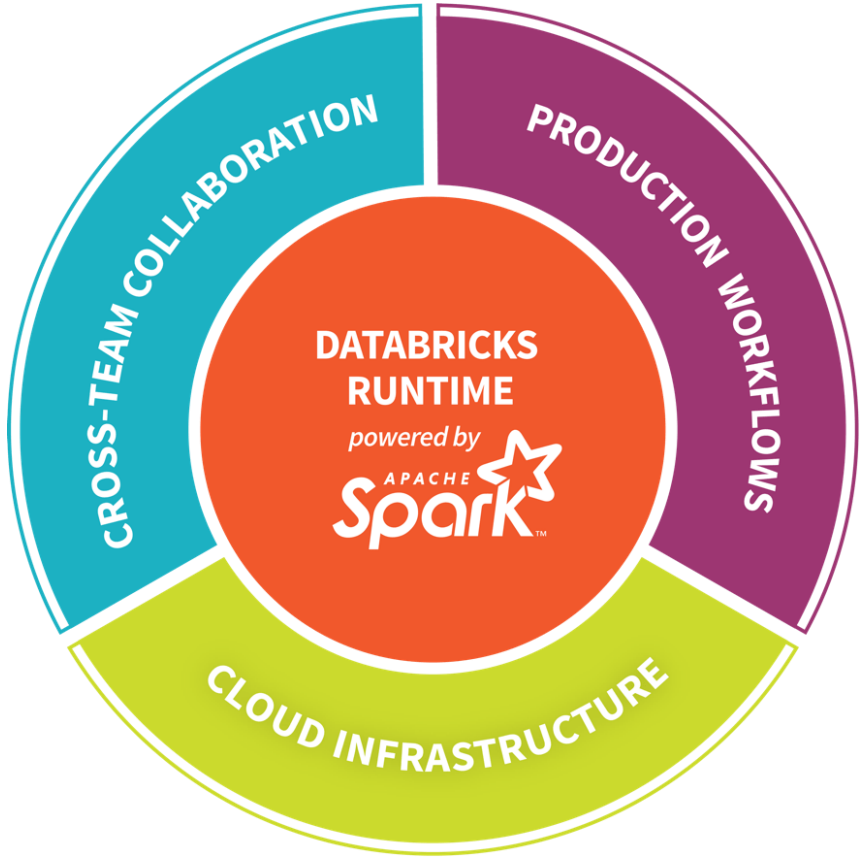


SPARK: A BRIEF HISTORY



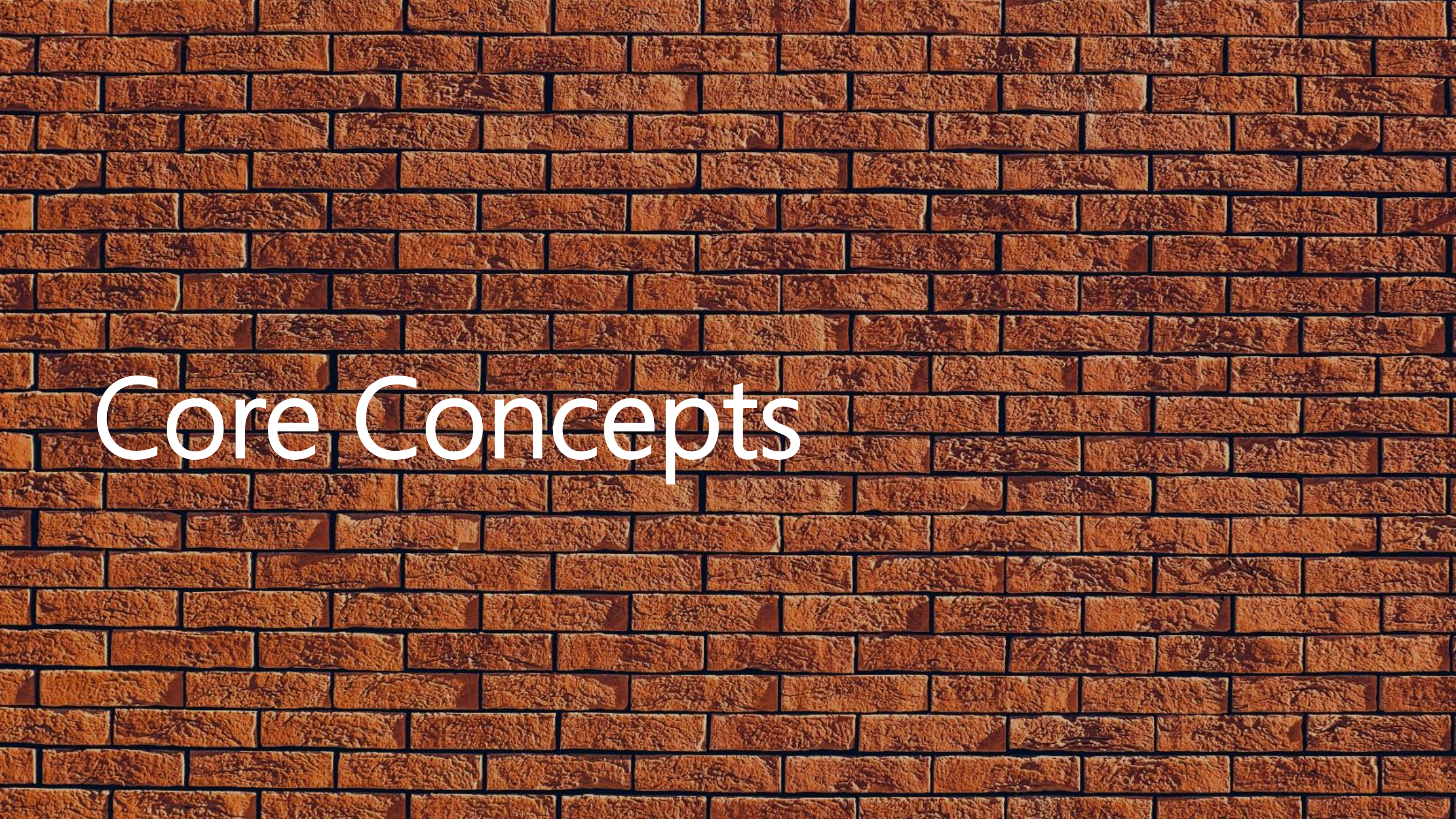
DATABRICKS - COMPANY OVERVIEW

- Founded in late 2013
- By the creators of Apache Spark, original team from UC Berkeley AMPLab
- Largest code contributor code to Apache Spark

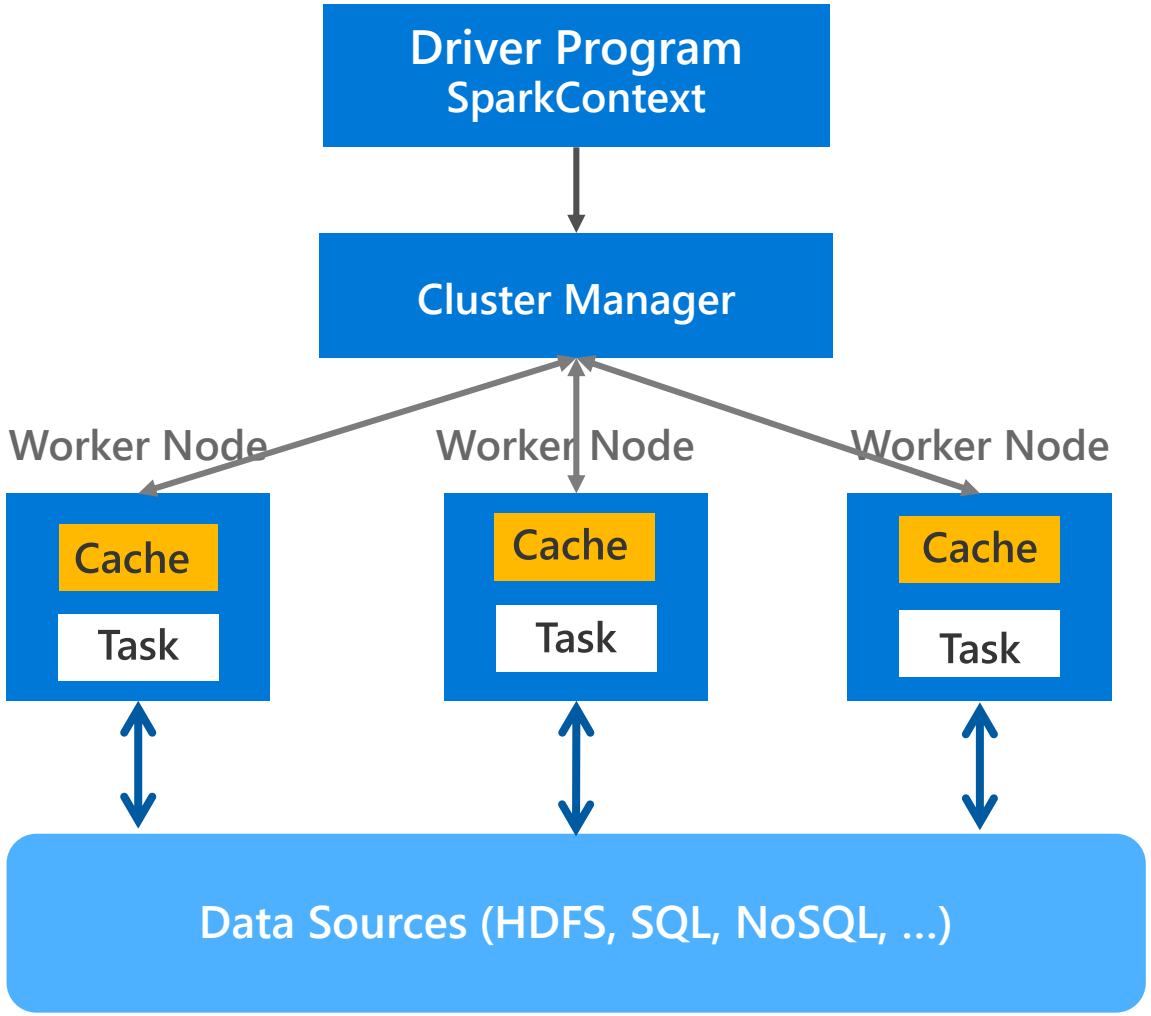


AZURE DATABRICKS

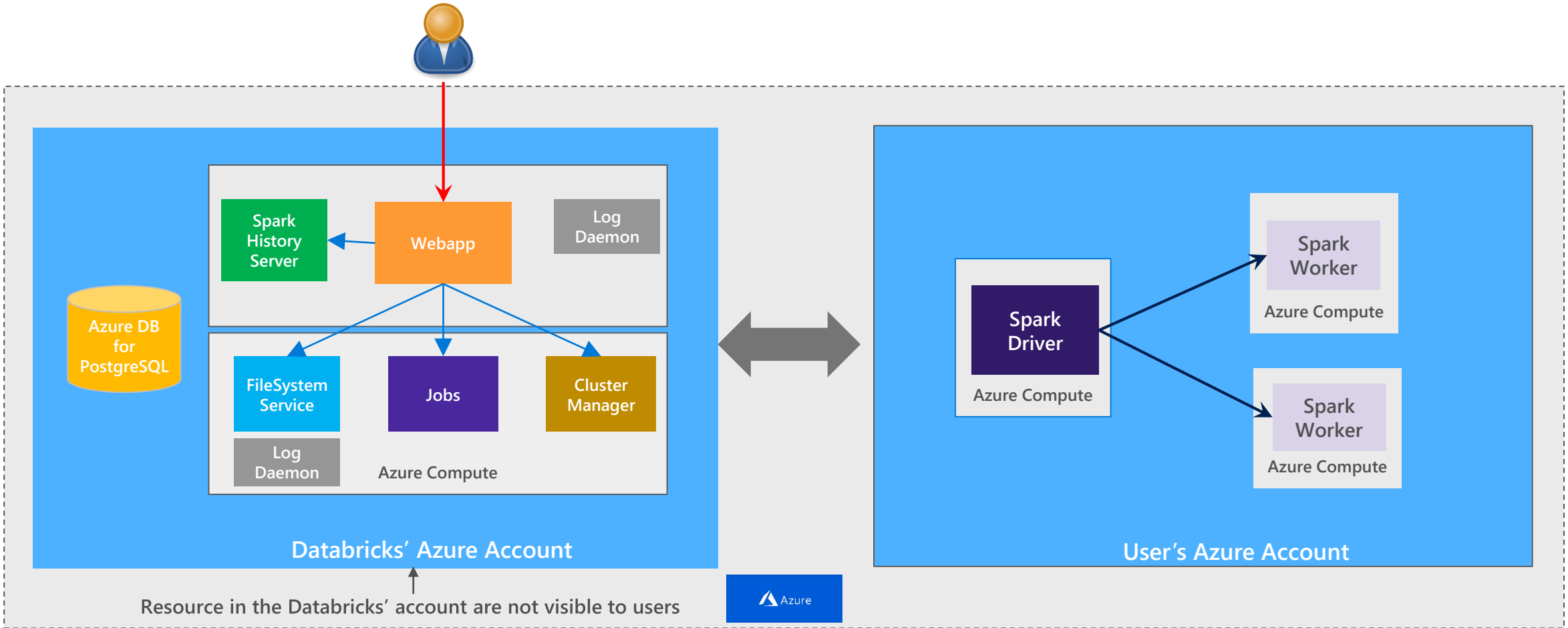
- Azure Databricks is a **first party** service on Azure
- Azure Databricks is integrated seamlessly with Azure services
- Eliminates need to create a separate account with Databricks


Core Concepts

GENERAL SPARK CLUSTER ARCHITECTURE

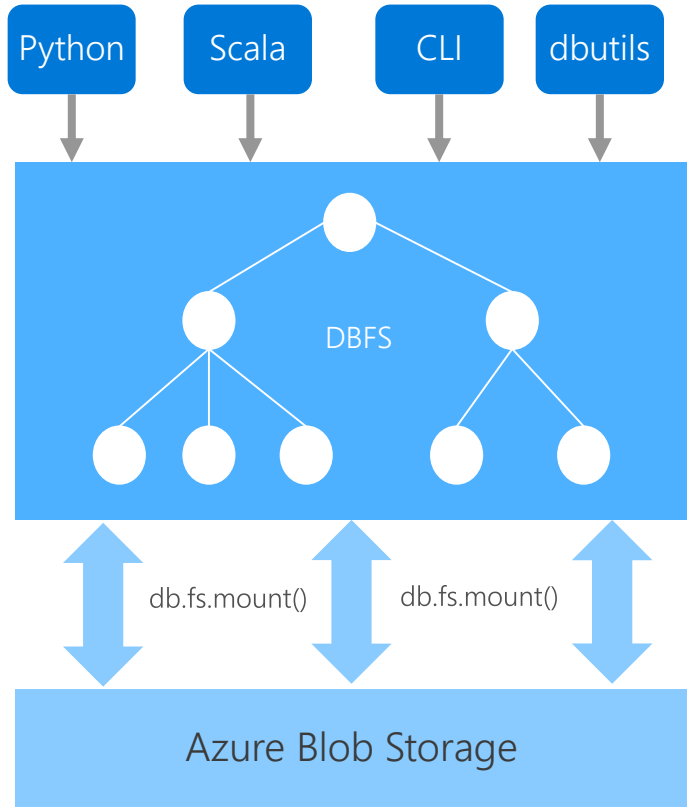


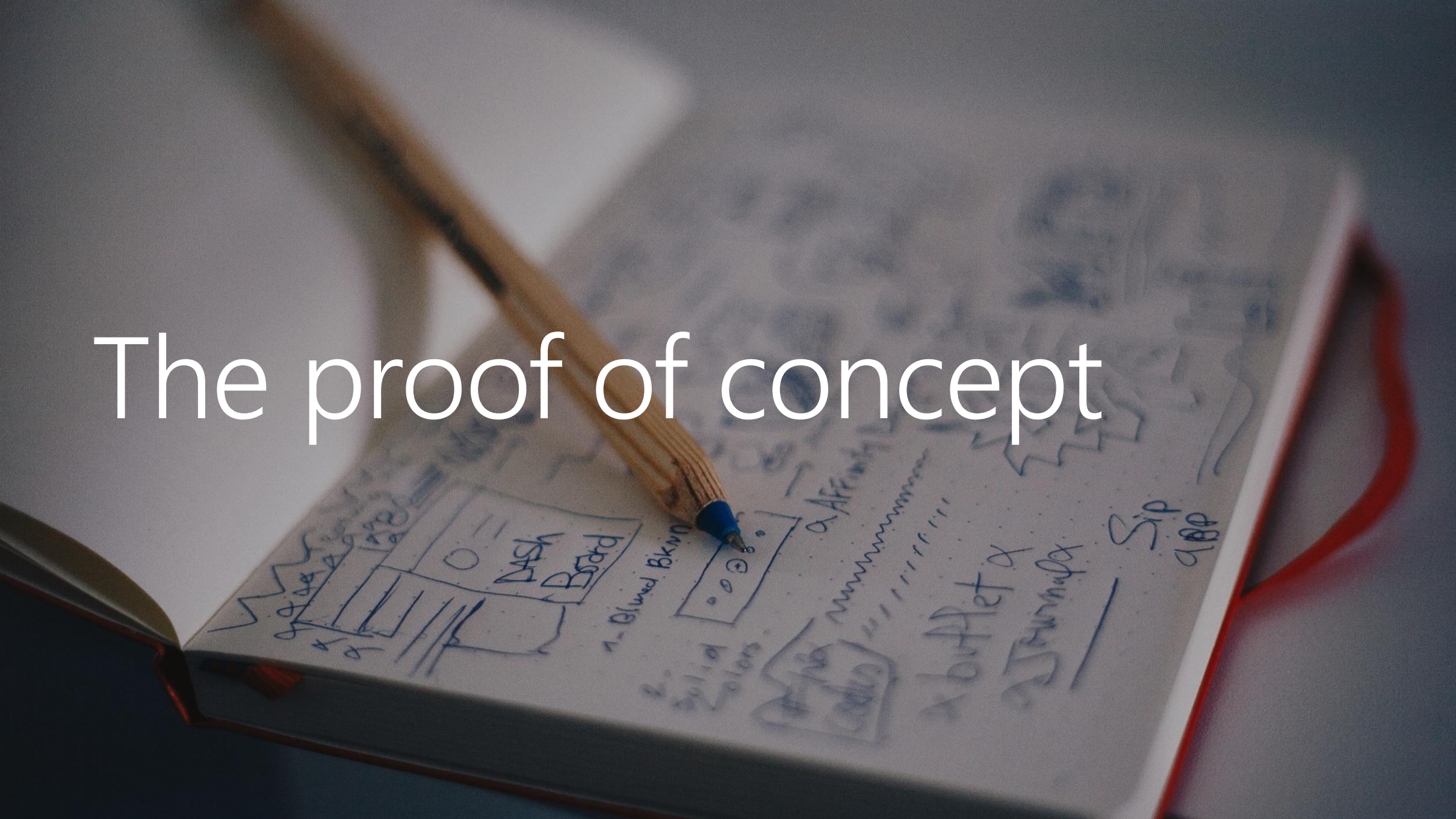
AZURE DATABRICKS CLUSTER ARCHITECTURE



DATABRICKS FILE SYSTEM (DBFS)

Is a distributed File System (DBFS) that is a layer over Azure Blob Storage





The proof of concept

Please evaluate on your way out!

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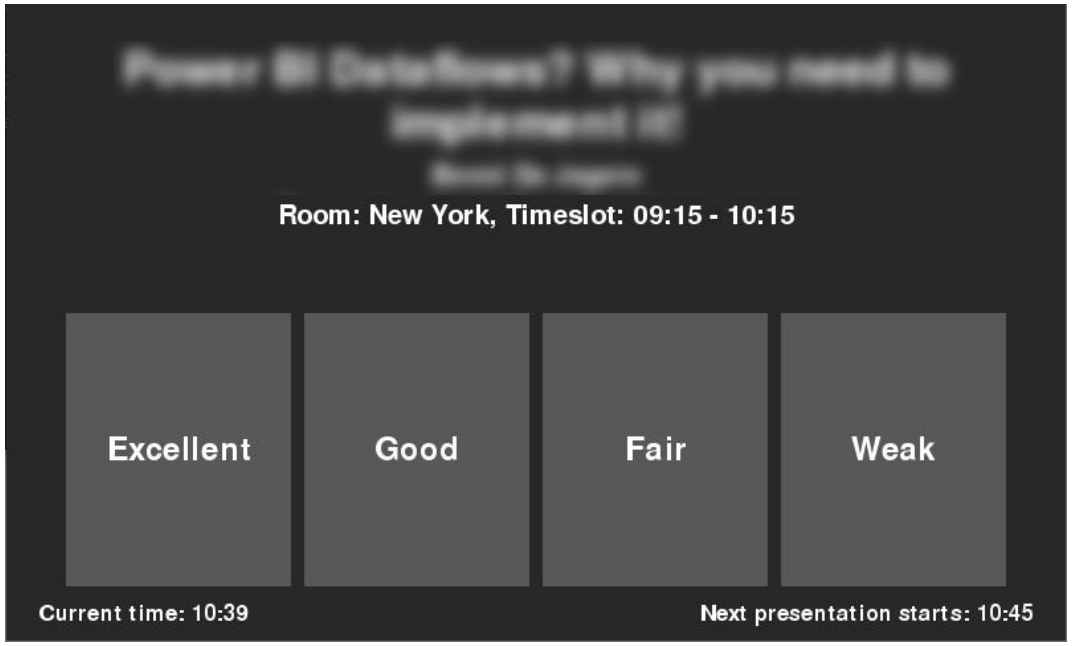

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