

Tensorflow on Azure

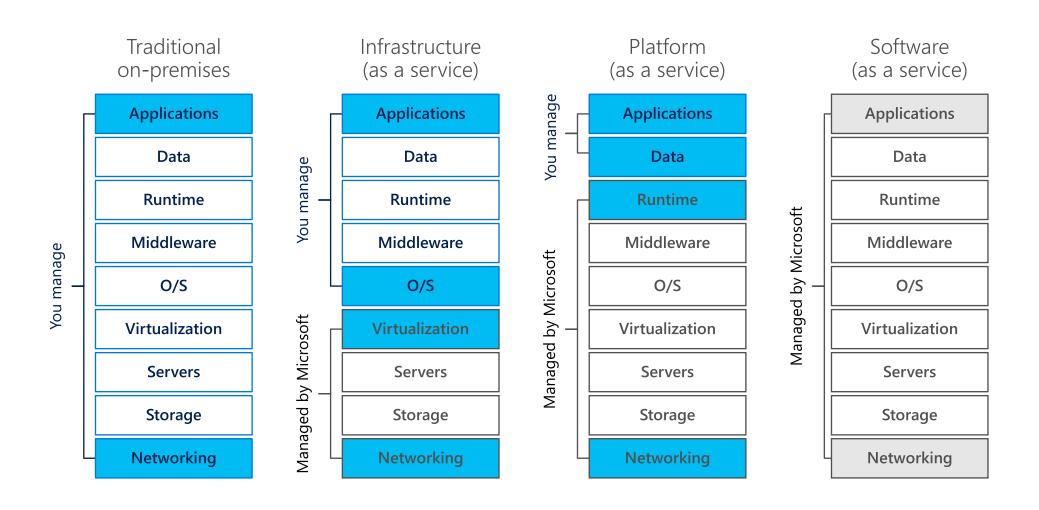
Luiz Fernando Braz - <u>luiz.braz@microsoft.com</u>

in https://www.linkedin.com/in/lfbraz/

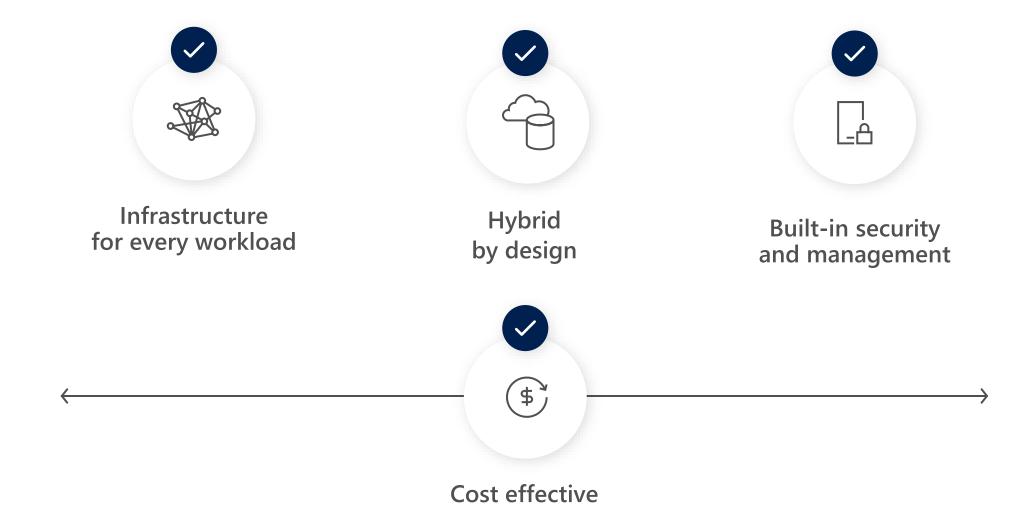
https://github.com/lfbraz

Microsoft Azure

Infrastructure Overview



Azure infrastructure for your needs





Azure: Productive



Integrated tooling for developers



100+ cloud services



Unified management for IT admins

Use the open source tools you like

DevOps

Nagios'

















Management





















Applications



















App frameworks & tools

















Databases & middleware





















Infrastructure















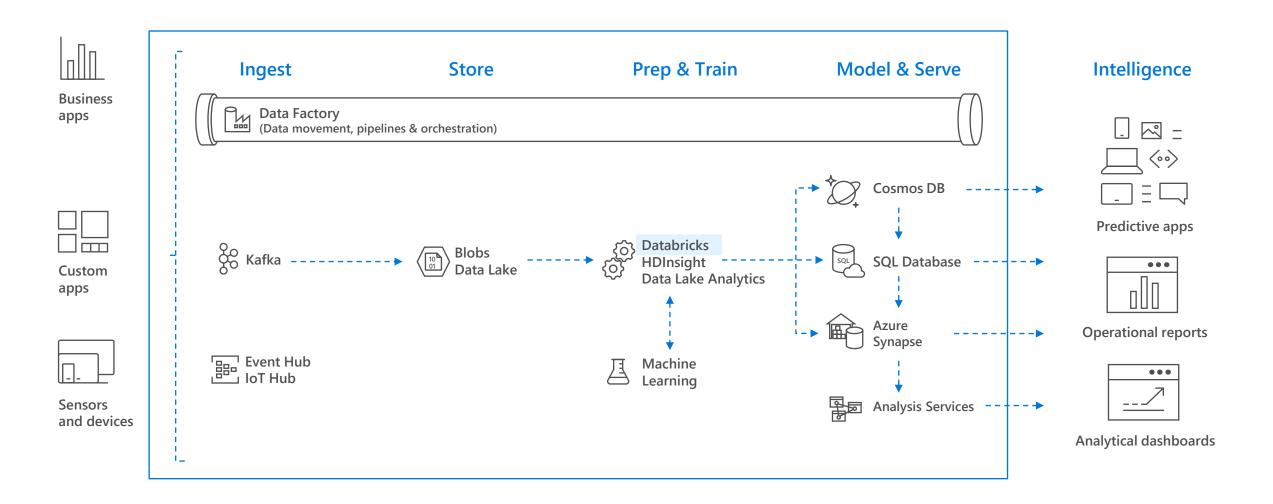






Big Data & Advanced Analytics in Azure

BIG DATA & ADVANCED ANALYTICS AT A GLANCE



Azure Databricks Powered by Apache Spark

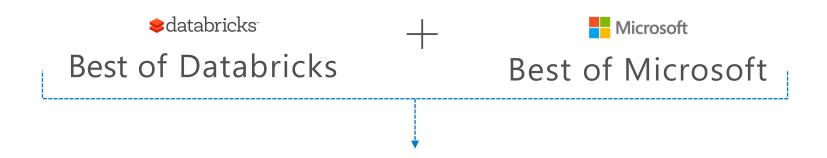
Why Spark?



- Open-source data processing engine built around speed, ease of use, and sophisticated analytics
- In memory engine that is up to 100 times faster than Hadoop
- Largest open-source data project with 1000+ contributors
- **Highly extensible** with support for Scala, Java and Python alongside Spark SQL, GraphX, Streaming and Machine Learning Library (Mllib)

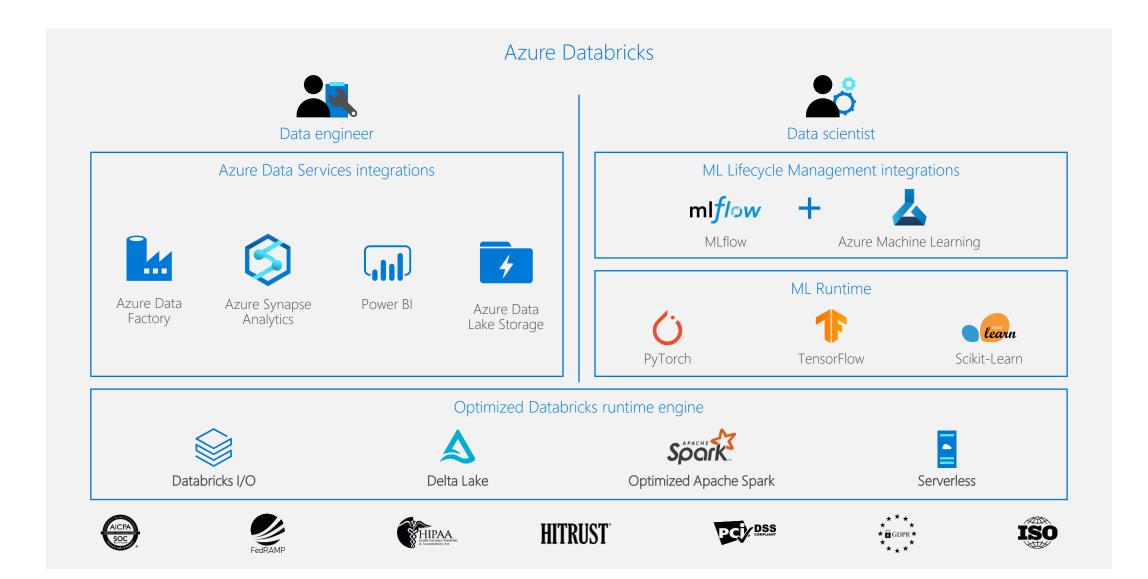
What is Azure Databricks?

A fast, easy and collaborative Apache® Spark™ based analytics platform optimized for Azure



- Spark Designed in collaboration with the founders of Apache Spark
- One-click set up; streamlined workflows
 - Interactive workspace that enables collaboration between data scientists, data engineers, and business analysts.
- Native integration with Azure services (Power BI, SQL DW, Cosmos DB, Blob Storage)
- Enterprise-grade Azure security (Active Directory integration, compliance, enterprise-grade SLAs)

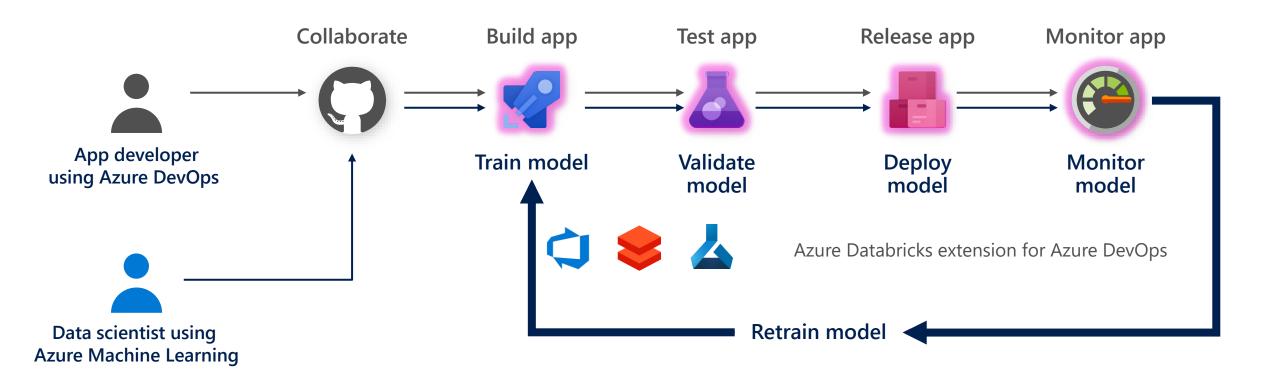
Azure Databricks



Azure Databricks and Azure ML are better together



MLOps with Azure Machine Learning + Databricks



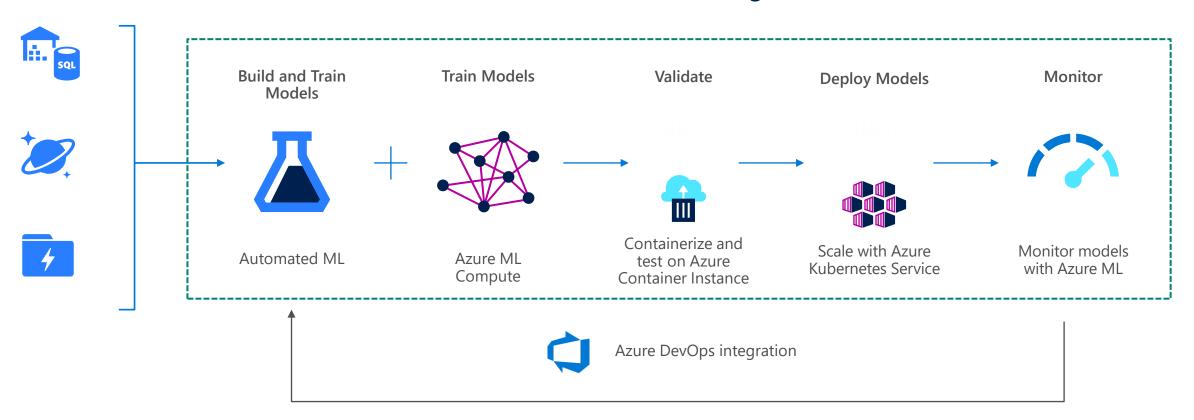




Demo Tensorflow on Azure Databricks

Deploy machine learning models at scale

Azure Machine Learning service



CI/CD and model retraining MLOps



Thank you!!:)