Microsoft Azure Databricks

A Unified Analytics Platform with Databricks and Apache Spark

databricks | Microsoft | Cloud offering by: carahsoft.

Public Sector Agencies

Azure Databricks is the platform optimized for Azure to deliver data engineering, data science, analytics, and machine learning.

Challenges

Government customers have access to large amounts of data from many different systems. User need to be able to holistically analyze data from disparate sources and systems in order to make real time, mission critical decisions.

As the amount of data available to government users continues to increase, so does the necessity to quickly and easily access that data to make real time, mission critical decisions.

Ideal Solution

Azure Databricks is offered as a fully integrated Azure-native service. A unified analytics platform allows users to analyze data from multiple sources and enable real time, enterprise-wide collaboration.

Leverage the power of accessing all of your data in one place combined with the integration of Azure services to access a secure, scalable, single platform.

Desired Outcomes

Azure Databricks builds on the capabilities of Spark by providing a zero-management cloud platform that includes, fully managed Spark clusters, optimized runtimes, interactive workspace for exploration and visualization and enterprise security.

Public Sector leaders need to harness the power of AI and big data to improve government services and make real time, data-driven decisions.

databricks Microsoft carahsoft

Azure Databricks - Features

Leverage data analytics, machine learning and AI to make smarter, faster decisions with Azure Databricks.

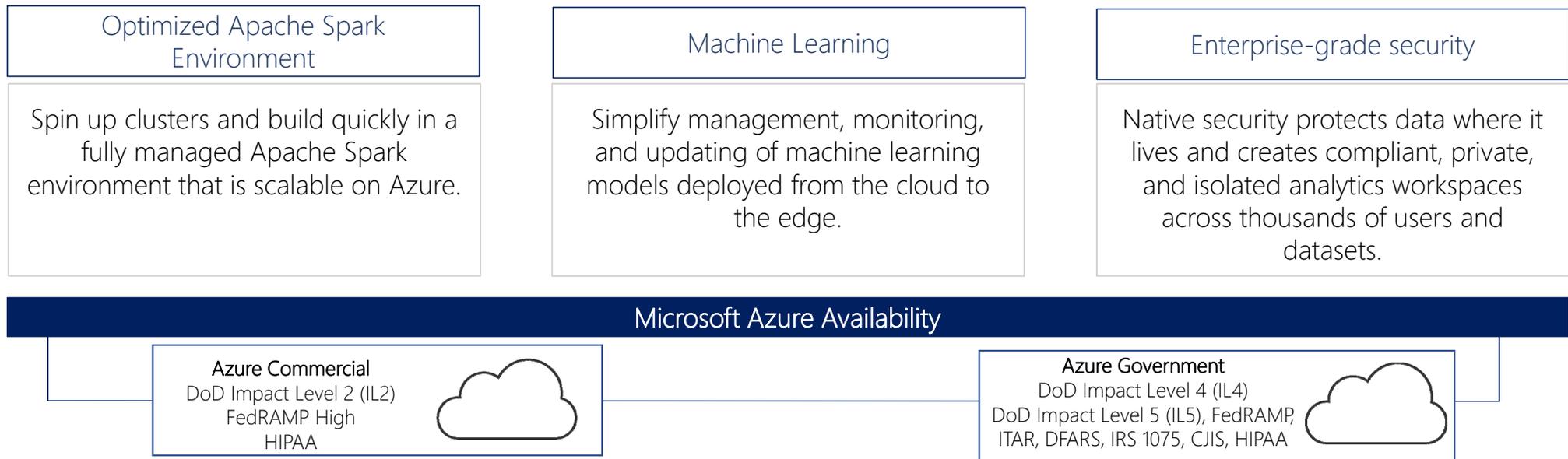| Optimize	Analyze	Collaborate	Integration
Large-scale data processing for batch and streaming workloads. • Built on top of Apache Spark and optimized for Azure. • Deploy auto-scaling compute clusters with highly-optimized Spark that perform up to 50x faster.	Enable analytics and ML on the most complete and recent data. • Modern data lakes handling all structured and unstructured data in a central repository. • Fast data for downstream streaming analytics, data science exploration, and model training.	Simplify and accelerate access to data science on large datasets. • Interactive dashboards to create dynamic reports. • Schedule notebooks to automatically run data transformations, modelling, and share up to date results.	Azure Databricks is optimized for the Azure platform. • Integration with Azure Services like Azure Active Directory, Dev Ops, Azure ML, Data Factory. • Single unified bill and the ability to leverage cost management tools to optimize savings.

Azure Databricks builds on the capabilities of Spark by providing a *zero-management* cloud platform that includes, fully managed Spark clusters, optimized runtimes, interactive workspace for exploration and visualization and enterprise security.

databricks   Microsoft   carahsoft

Azure Databricks - Solution

Data and AI service for data engineering, data science, analytics, and machine learning.

Optimized Apache Spark Environment	Machine Learning	Enterprise-grade security
Spin up clusters and build quickly in a fully managed Apache Spark environment that is scalable on Azure.	Simplify management, monitoring, and updating of machine learning models deployed from the cloud to the edge.	Native security protects data where it lives and creates compliant, private, and isolated analytics workspaces across thousands of users and datasets.

Microsoft Azure Availability

Azure Commercial
DoD Impact Level 2 (IL2)
FedRAMP High
HIPAA

Azure Government
DoD Impact Level 4 (IL4)
DoD Impact Level 5 (IL5), FedRAMP,
ITAR, DFARS, IRS 1075, CJIS, HIPAA

Seamlessly integrate to Azure data stores and services with specialized connectors for fast data access and simplified management across your environment. This makes it easy to setup security controls, manage environments, and process all your Azure data.

databricks | Microsoft | Connect&Bring by carahsoft.

Customer Success Story

slalom

Win Results

A healthcare information exchange wanted to analyze its data faster and curate deeper insights. Together, Slalom and CRISP built an Azure Data Lake. The results forever changed how CRISP serves its stakeholders—and its local community now benefits from some of the most reliable, insightful healthcare information in the US.

With Slalom DC's Azure Data Platform Accelerator—which uses Databricks and other Azure services—the teams deployed the basic infrastructure speedily and put their energy straight into creating datasets. The big difference with using the accelerator, says Steve Dowling, senior consultant at Slalom DC, is that "we can take on the first use case and solve a problem right away while we're also making the platform better and bigger and stronger."

The new platform—CRISP Insights—easily handles datasets of 400+ billion records and 30+ unique data sources. It automatically masters any data the teams need and provides a single, clean file that can be used for analysis and reporting

In the first 12 months, CRISP Insights has contributed to the following outcomes: hourly contact tracing with data already cross-referenced for individual risk factors, automated reporting on COVID hospitalizations.

Faster time to value. With the new Platform reporting time is down from 190 days to 3 days. They went from 12 hour day process to a couple of hours process

databricks Microsoft carahsoft.

Thank You
Microsoft@Carahsoft.com