Databricks Data Intelligence Platform on Azure

Fuel Your Data-Driven Enterprise with Azure Databricks

The ability to harness the power of data can drive business transformation by enabling timely insights, decisions and proactive strategies aided by:

Unified analytics, data engineering & data science to break workflow silos

AI infused data platform with NLP for faster insights

Large scale distributed computing for high performance & cost efficiency

Unified governance for your entire data, analytics, AI-ML estate

4-Week Proof of Concept (PoC) on Azure-Databricks Data Intelligent Platform

Our four-week PoC on Data Modernization with Azure-Databricks Data Intelligence Platform will help you put together a foundational architecture and solution to demonstrate the capabilities of a scalable AI-infused data and analytics solution tailored to your business needs with selected Databricks, Microsoft Fabric, and Azure data and AI services.

This PoC is designed to demonstrate the power of natural language-based understanding of the semantics of all your business data, which can be governed by just one tool—Unity Catalog for all your data and AI assets along with Delta Sharing for your data products.

WinWire's **Solution Accelerators** for building a modern data platform with Azure-Databricks will be leveraged during the PoC implementation:

Migration as a Service (MaaS)

Reduce migration risk by a comprehensive assessment of the current data estate environment

End-to-end migration acceleration, data, integration to reporting

Deliver extended capability of unity catalog, delta sharing through migration services

MLOps: Operationalize Machine Learning Models

Improved collaboration between Business, IT, Data Scientists with end-to-end model Governance

Increase in productionized ML use cases due to higher velocity in model development

Optimized integration with Cloud services & cost management

Metadata Driven Data Ingestion & Data Quality (DIDQ)

Up to 50% reduction in data onboarding

Schema Agnostic capability delivering reusable assets

Metadata Driven Ingestion using Control & Configuration Tables

Scope of Services

Based on a joint planning workshop, PoC scope to be determined from the following services:

Azure-Databricks Adoption - Business Case Development, PoC, Sandbox & Implementation Roadmap with Databricks, Microsoft Fabric & Azure services

Unified governance with Unity Catalog & Microsoft Purview (optional) for your data estate.

DevOps and MLOps integration.

Development of Machine Learning Models – GenAI, AI-ML model serving with Databricks /Azure services.

Lakehouse Architecture - Data Engineering, Streaming/Batch with Scala, Python & SparkSQL.

Data ingestion & processing with batch/streaming processes with Fabric, Azure & Databricks services.

Migration of Hadoop framework components such as Hive, HBase, Pig, MapReduce to Azure-Databricks.

Visualization with AIBI of Databricks or Microsoft Power BI or connect to your existing tools.

Key Benefits

Cost Saving: Native integration with Azure ecosystem; a unified experience with integrated security & governance to ensure significant cost savings.

Tailored to Your Business
The PoC caters to your specific data, KPIs, and business goals.

Rapid Implementation
Get a working Azure-Databricks environment in only 4 weeks, with actionable insights.

Scalable Solution
Establish a scalable, high-performance solution to handle growing data volumes & complex use cases.

PoC Week-wise Activities

Week 1 — Discovery and Assessment

Week 2 — Architecture and Design

Week 3 — Implementation & Migration

Week 4 — Validation, Testing & Finalization, Enterprise-wide roll-out planning

Outcome

An integrated & validated Azure-Databricks environment enabling citizen developers.

Customer Story

WinWire helped a multinational software firm known for pioneering graphic design, video editing, and digital experience solutions, widely used across creative industries, to migrate 200 PB of Data from Cloudera Hadoop to Databricks on Azure and helped them built a Data-Platform-as-a-Service on Databricks that saves multi-million US dollars annually.