Databricks Data Intelligence Platform on AWS

aws

| Sources | Ingest | Transform | Query / Process | Serve | Analyse | Integrate |

Data Intelligence Platform

Automation & Orchestration

- Workflows
- CI/CD tools
- DataOps
- MLOps

Apps
- Databricks Apps

ETL

Sources:
- Files / Logs (semi-structured)
- Sensors and IoT (unstructured)
- RDBMS (structured)
- Business Apps (structured)
- Media (unstructured)
- Other clouds

Federation
- Amazon Redshift …

Batch & Streaming
- Auto Loader
- Lakeflow Connect

Batch & Streaming
- Amazon AppFlow
- AWS Glue
- AWS IoT Core
- Amazon Kinesis
- AWS DMS

Data Science & Machine Learning (Mosaic AI)
- AI Gateway
- Feature Engineering
- Classic ML
- Gen AI
- Feature Serving
- Vector Search
- Model Serving

Date Engineering & Processing
- Delta Live Tables
- Spark / Photon

Data Warehousing
- AI Functions
- Databricks SQL

Data Intelligence Engine (Databricks IQ)
- Predictive IO
- Predictive optimization
- Assistant

Data and AI Governance (Unity Catalog)
- Lakehouse Federation
- Catalog & Lineage
- Access Control
- AI Assets*
- Lakehouse Monitoring

Data Management
- Delta Lake
- UniForm
- bronze → silver → gold

Collaboration
- Delta Sharing
- Market place

Operat. DBs
- Amazon RDS
- Amazon DynamoDB

Data Analysis
- AI/BI Dashboards
- AI/BI Genie

BI
- Amazon QuickSight

Business Apps
- Business/AI App

3rd party
- Data Consumer

Integrate
- ID Provider
  - ID Provider
- Governance
  - Enterprise Catalog
- AI Services
  - Hugging Face
  - Amazon Bedrock …
- Orchestration
  - External Orchestrator

Amazon S3

Storage

* features, models, functions

Key | Domain / Key capability