2 Streaming and Change Data Capture

Microsoft Azure

Source	Ingest	Transform	Query and Process	Serve	Analysis		Integration

Data Intelligence Platform on Azure

Federation
- Synapse
- SQL Server
- ...

ETL
- Sensors and IoT (unstructured)
- RDBMS (structured) — CDC
- Files / Logs (semi-structured)
- Media (unstructured)
- Business Apps (structured)
- Other clouds

Orchestration
- Workflows

Batch & Streaming

Data Science & Gen AI

Processing, ETL, Real-time Analytics
- Delta Live Tables
- Spark / Photon

Data Warehousing

Batch & Streaming
- Azure IoT Hub
- Azure Event Hub

Structured Streaming

Data Intelligence Engine
- Assistant
- DatabricksIQ

Data and AI Governance
- Catalog & Lineage
- Access Control
- Unity Catalog
- Lakehouse Monitoring

Data
- Delta Lake — *AutoLoader*
- bronze → silver → gold

Collaboration

Event Hub Capture

Azure Data Lake Storage

Storage

Dashboards

Operat. DBs
- SQL DB
- Cosmos DB

Integration

ID Provider
- Entra ID

Governance
- Purview

Key
- Domain
- Key capability