



Art of the Possible with MongoDB + Microsoft



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Cloud Solutions Architect
Microsoft

New Partnership



Microsoft



MongoDB®

5 Year Agreement (signed Feb 2023)

“Developers, Developers, Developers!”



Satya Nadella,
CEO



Scott Guthrie, EVP



Dev Ittycheria, CEO

The Microsoft and MongoDB Partnership

10⁺

years of active partnership in the cloud



2019

Launched MongoDB Atlas on Azure

2022

Joined the Microsoft Intelligent Data Platform partner ecosystem

2023

Expanded partnership with multiyear strategic partnership agreement

2025

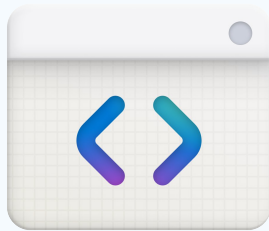
MongoDB Atlas as an Azure Native Integration



Satya Nadella speaking at Microsoft Build 2024

MongoDB Atlas + Azure = better together

Migrate and build on the fully managed developer data platform, MongoDB Atlas, for enhanced agility and scalability.



Build on a unified
developer data
platform



Reduce complexity
and sprawl



Limitless innovation
with Azure

Agent-Aware Predictive Maintenance

Today's demonstration showcases an integrated agent-driven approach to predictive maintenance that transforms traditional reactive operations into proactive, intelligent decision-making.

Proactive Predictive Maintenance Agent

Continuously monitors fleet telemetry, raises intelligent alerts, and proposes evidence-based corrective actions automatically

One-Click Execution

Approve & Execute workflow sends control commands to field devices and creates auditable maintenance tickets simultaneously

AI Field Operations Agent

Analyzes operational context on-demand, synthesizes multi-metric risk assessments, and generates executable action plans

Integrated Reporting

Fabric/Power BI delivers real-time troubleshooting dashboards per meter and comprehensive operations management views

Measurable Outcome: Faster Mean Time To Action (MTTA), safe load reduction protocols, and complete audit trail through integrated ticketing system.

Why This Matters

The Challenge

Non-human IoT actors generate massive volumes of noisy telemetry data, leading to missed early warning signals and delayed response times in critical infrastructure

Operational Requirements

Operations teams need multi-metric risk assessment, explainable AI-driven actions, and unified system of record for compliance and efficiency

Our Solution Promise

Complete workflow automation: Detect anomalies → Explain root causes → Propose solutions → Execute safely → Report outcomes

Traditional reactive maintenance costs energy companies billions annually through unplanned downtime, emergency repairs, and safety incidents. This agent-aware approach transforms operations from reactive firefighting to proactive optimization.



Live UI Overview: Smart Meter Dashboard

Time-Series Visualization

Real-time telemetry chart with optional Curated (filled) overlay toggle for gap-filled, quality-assured data visualization

AI Field Operations Agent Panel

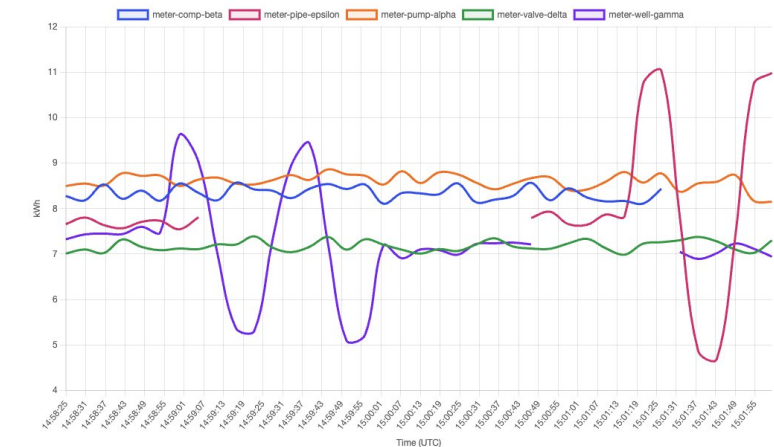
Interactive workflow: Analyze current conditions → Generate action plan → Approve & Execute with one-click deployment

PM Alert System

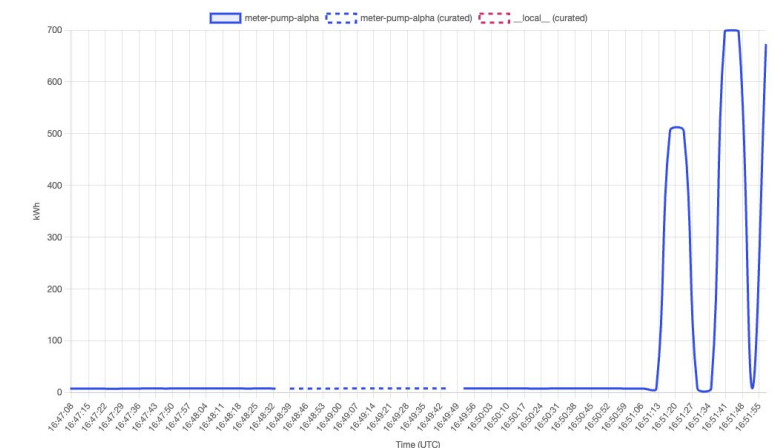
Red notification bell in header triggers side drawer with predictive maintenance alerts and recommendations

Technical Implementation: React frontend with Chart.js visualization, configurable API endpoints, and direct "Open in Fabric" workspace integration for seamless reporting transition.

Consumption For All Assets (Realtime)



Consumption For Meter-Pump-Alpha (Realtime)



Agent #1: Field Operations Agent

Pull-model architecture enabling on-demand operational analysis and action planning.



Analyze Phase

Calls `/api/AutonomousAgent` with `allowActions=false` for risk assessment without execution permissions

Plan Generation

AI generates proposed action plan based on current telemetry, historical patterns, and operational context

Approve & Execute

Human-in-the-loop approval switches to `allowActions=true`, triggering `control_simulator` and `create_maintenance_ticket` functions

This agent empowers field operators with AI-driven insights while maintaining human oversight for critical decisions. The two-phase approach ensures safety through deliberate human approval before any control actions.

AI Field Operations Agent

We've detected an unusual energy spike on **meter-well-gamma**.

At September 18, 2025 at 8:52 AM, the meter recorded 687.890 kilowatt-hours.

For context, the system's normal operating range is about 5.113–8.398 kWh, with an average of 39.07 kWh. This spike was roughly 17.6× the average.

Review the proposed actions below and approve if you'd like the agent to execute them.

Proposed plan

Reduce Load

Set **meter-well-gamma** to **25%** for 2–5 minutes to stabilize.

Create Ticket

Critical priority with numeric evidence.

Executed Actions

- control_simulator — OK (status 200)
- create_maintenance_ticket — OK (status 200)

Hide Evidence

- Mean: **39.07** kWh
- p90: **8.40** kWh
- Range: **4.268–687.890** kWh
- Spikes: **687.890** @ 2025-09-18T06:52:11.236Z, **687.890** @ 2025-09-18T06:52:16.930Z

Analyze & Formulate Plan

Approve & Execute Plan

Agent #2: Predictive Maintenance Supervisor

Push-model architecture for proactive fleet monitoring and automated alert generation.

Continuous Scanning

Timer-triggered scans call `/api/pmfeatures` across entire meter fleet, evaluating risk thresholds continuously

Interactive Response

UI polls `/api/getalerts`; notification bell opens PM drawer with summary, top signals, and troubleshooting links

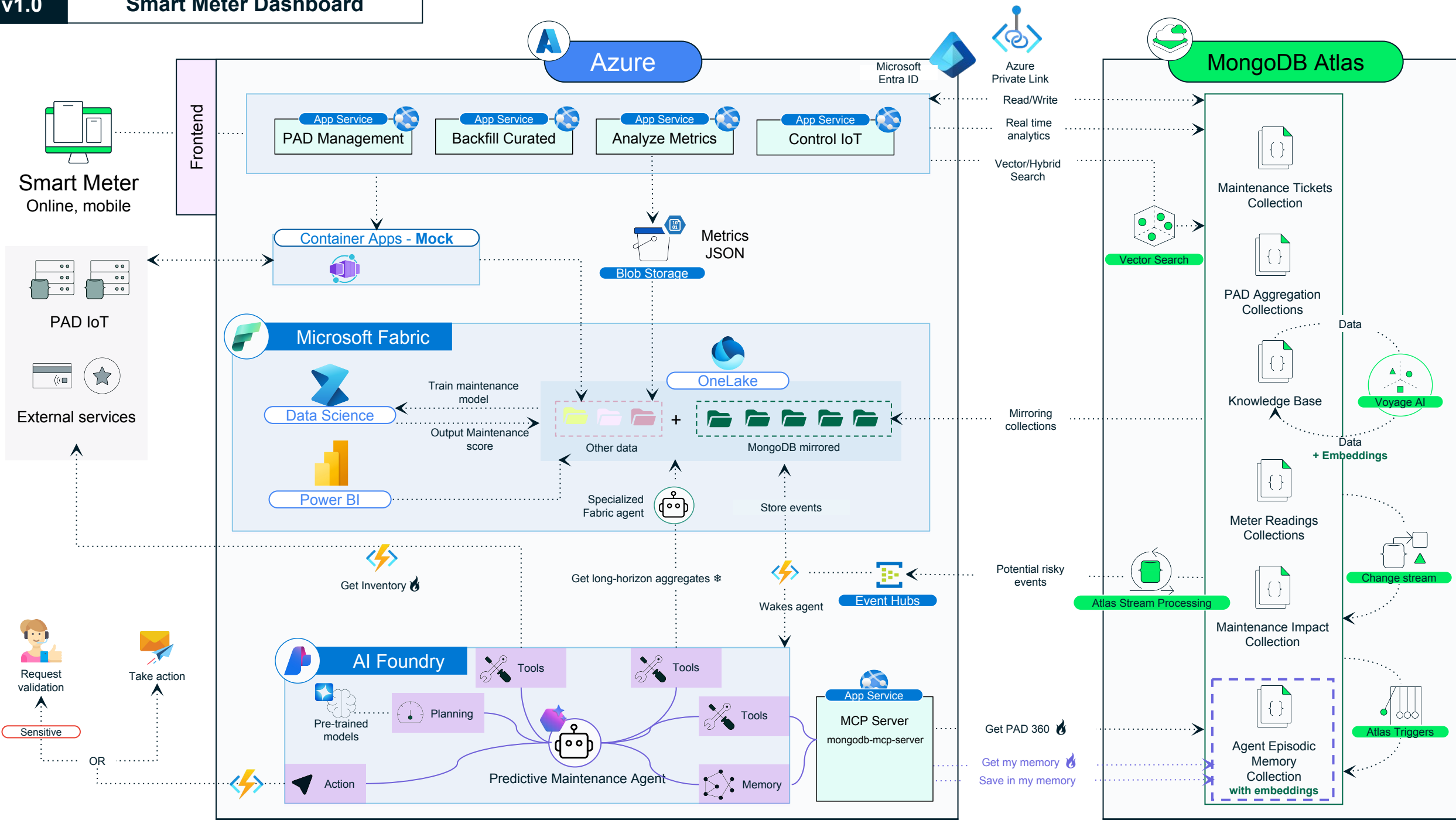
Alert Generation

High/Critical risk conditions automatically trigger `/api/createmaintenancealert` with detailed evidence package

Execution & Tracking

Post-approval execution via `/api/executealertplan` calls ControlSimulator + CreateMaintenanceTicket with full audit trail

The PM drawer displays inline execution results including HTTP status codes and raw JSON responses for complete transparency and debugging capability.



Smart Meter Dashboard

Now: 0 critical | 5 watch | \$5.5k protected | 0.04 t CO₂e | 0 actions

Pad-3 balance: **IMBALANCE** (Δ 98.4%)



Filter by Asset

All Assets

Select Time Range

Day Hour Realtime

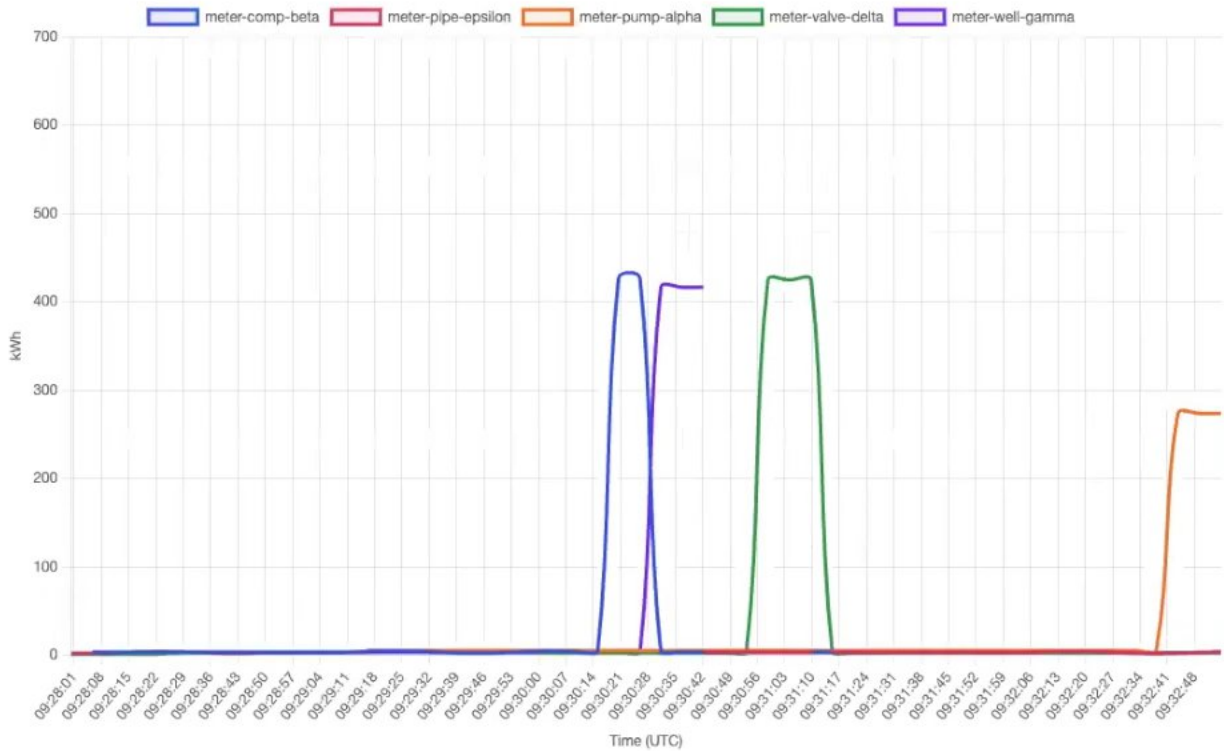
Show Curated (filled)

Open in Fabric

Build Curated (demo)

Curated overlay (local) built for window

Consumption For All Assets (Realtime)



AI Field Operations Agent

Click *Analyze & Formulate Plan* to engage the agent.

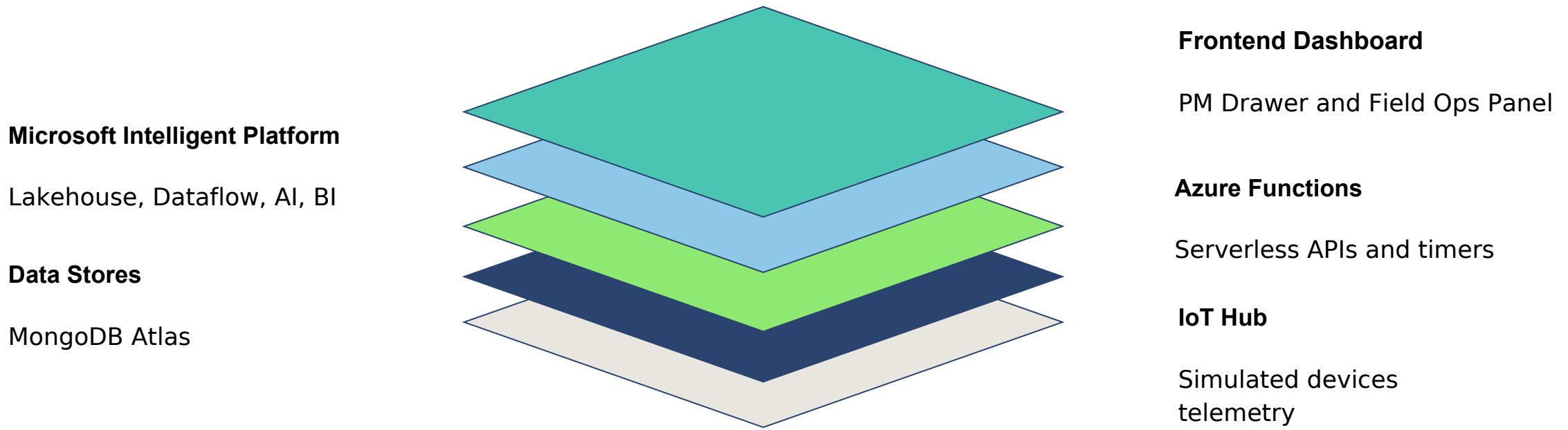
Analyze & Formulate Plan

Approve & Execute Plan

Live Maintenance Log

Critical Open Asset: meter-valve-delta | Issue: PM ticket: Critical risk (100/100)

System Architecture



This cloud-native architecture leverages **Azure AI Foundry** for agentic intelligence and tool-orchestrated predictive maintenance, **Azure Functions** for serverless compute, **MongoDB Atlas** for flexible data persistence, and **Microsoft Fabric** for enterprise-grade analytics and reporting.

Key Benefits

- **Real-time** — Atlas time-series + Azure AI Foundry agents turn fresh signals into actions in seconds.
- **Agile** — Schema-flexible Atlas lets you add sources and evolve rules; compose new Foundry tools at product speed.
- **Integrated** — MongoDB Atlas ↔ Microsoft Fabric ↔ Azure AI Foundry: zero-ETL to OneLake with AI grounded in live data.
- **Secure** — Atlas encryption & RBAC, Fabric governance, and Foundry guardrails with a full audit trail.
- **Everywhere** — Azure's global footprint + Atlas on Azure power wide IoT distribution, from edge sites to multi-region scale.

MongoDB + Microsoft Integrations



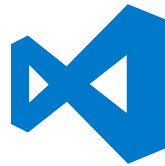
Microsoft Fabric
All-in One Analytics



Azure AI Foundry
AI Innovation Platform



Power Apps
Low Code Development



VS Code Extension
Rapid Prototyping



GitHub Copilot
AI Coding Assistant



Azure Databricks
Unified Analytics



Azure VNET
Virtual Network



Microsoft Entra ID
Identity & Access Management



Azure Blob Storage
Object Storage



Power BI
Data Visualization



Purview
Unified Data Governance



Power Automate
Process Automation



Semantic Kernel
LLM Framework



Entity Framework Core
Object Relation Mapper



Azure Functions
Serverless Functions



Azure PrivateLink
Private Connectivity



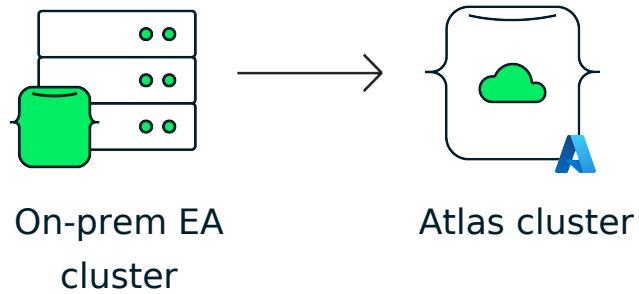
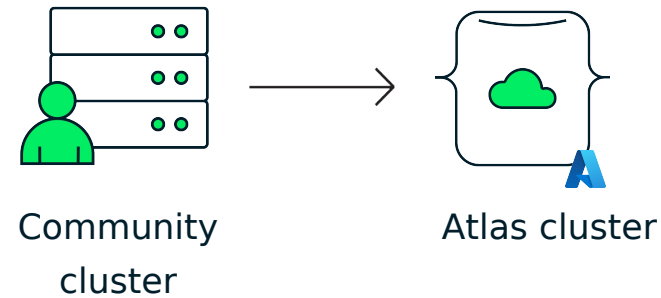
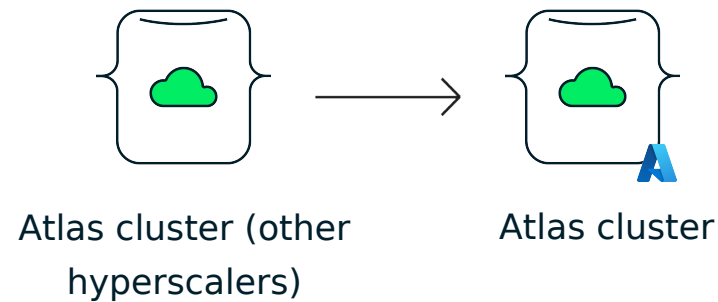
Azure Key Vault
Secure Secrets Store



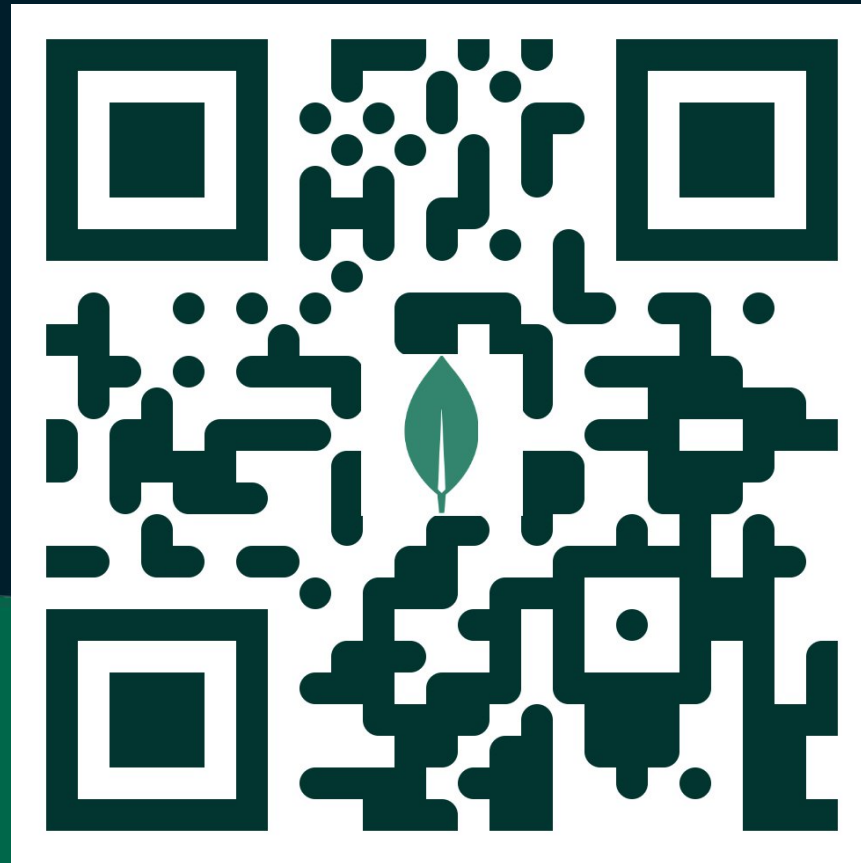
Azure OpenAI
Generative AI

Microsoft Cloud Accelerate Factory

Accelerate MongoDB migrations to Atlas on Azure safely and deliver best practices runbooks for Community & EA workloads.



Thank You



Data Resilience: Curated Overlay

Short-gap filling algorithm ensures continuous data quality for reliable predictive analytics.

Sampling Analysis

Algorithm automatically infers expected sampling intervals from historical patterns to identify genuine data gaps

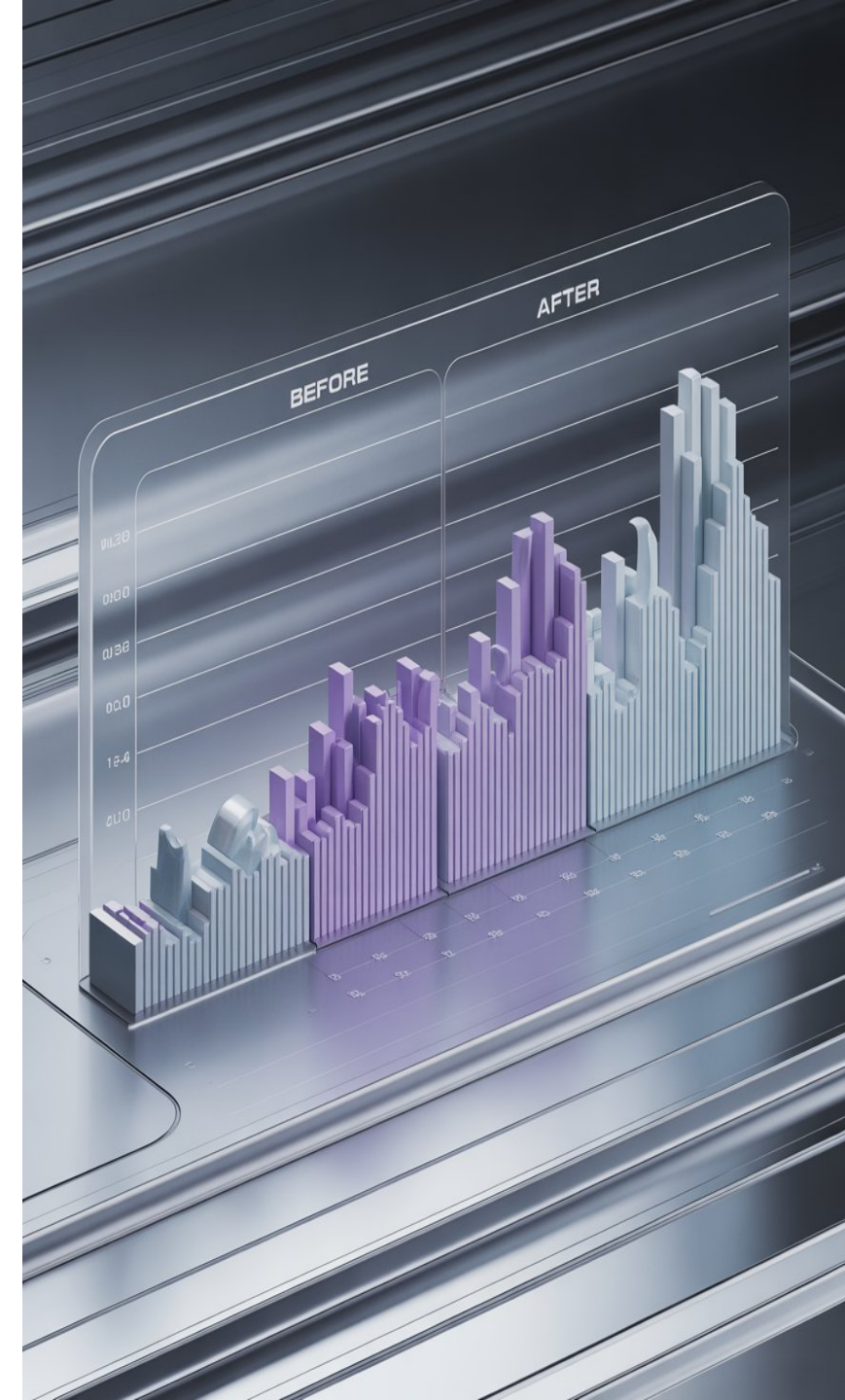
Smart Interpolation

Linear interpolation fills only short gaps (configurable threshold), preserving data integrity while maintaining analytical continuity

Quality Flagging

All interpolated points are marked with quality indicators, ensuring transparency in downstream analysis and reporting

Implementation Detail: Timer job rebuilds the last 15 minutes of curated data continuously, writing to dedicated curated collection/table for real-time dashboard overlay.



Action Plan Cards

Standardized UX components provide consistent interaction patterns across both agent workflows.

Reduce Load

Set **meter-well-gamma** to **25%** for 2–5 minutes to stabilize.

Reduce Load Control

Sets target meter to 25% capacity for approximately 5 minutes, providing safe operational margin during anomaly investigation

Create Ticket

Critical priority with numeric evidence.

Create Maintenance Ticket

Generates High/Critical priority tickets with numeric evidence, statistical analysis, and relevant knowledge base attachments

Executed Actions

- `control_simulator` — OK (status 200)
- `create_maintenance_ticket` — OK (status 200)

Pre-Approval State

Cards display proposed actions with detailed parameters and expected outcomes for review

Execution Phase

Post-approval cards show real-time status pills indicating progress and completion states

Results Display

Inline raw JSON responses provide complete execution transparency with HTTP status codes and API responses

System of Records: Maintenance Tickets & Alerts

Unified data model consolidates alerts and tickets in single MongoDB collection for comprehensive audit trail.

Live Maintenance Log

Critical Open **Asset:** meter-comp-beta | **Issue:** Spike detected at 2025-09-22T11:40:06.429Z (650.348 kilowatt-hours). Normal range is 5.959–8.271 (mean: 27.65, p90: 8.27). This is $\approx 23.5\times$ the average.

▼ Evidence

- Mean: 27.65 kWh
- p90: 8.27 kWh
- Range: 4.549–650.348 kWh

Spikes: 650.348 @ 2025-09-22T11:40:06.429Z, 523.061 @ 2025-09-22T11:38:06.493Z, 523.061 @ 2025-09-22T11:38:12.067Z

Analyzer: AutonomousAgent | Analyzed at: 2025-09-22 11:40:14.214 UTC

Ticket #68d135fab15320274b38314d created 2025-09-22 11:41:46.345 UTC

High Open **Asset:** meter-comp-beta | **Issue:** Abnormal consumption on meter-comp-beta — mean 7.49 kWh; p90 8.18 kWh.

▼ Evidence

- Mean: 7.49 kWh
- p90: 8.18 kWh
- Range: 6.748–8.232 kWh

Analyzer: AutonomousAgent | Analyzed at: 2025-09-22 08:34:25.191 UTC

Ticket #68d10a17eb41b224f9f2ce40 created 2025-09-22 08:34:31.019 UTC

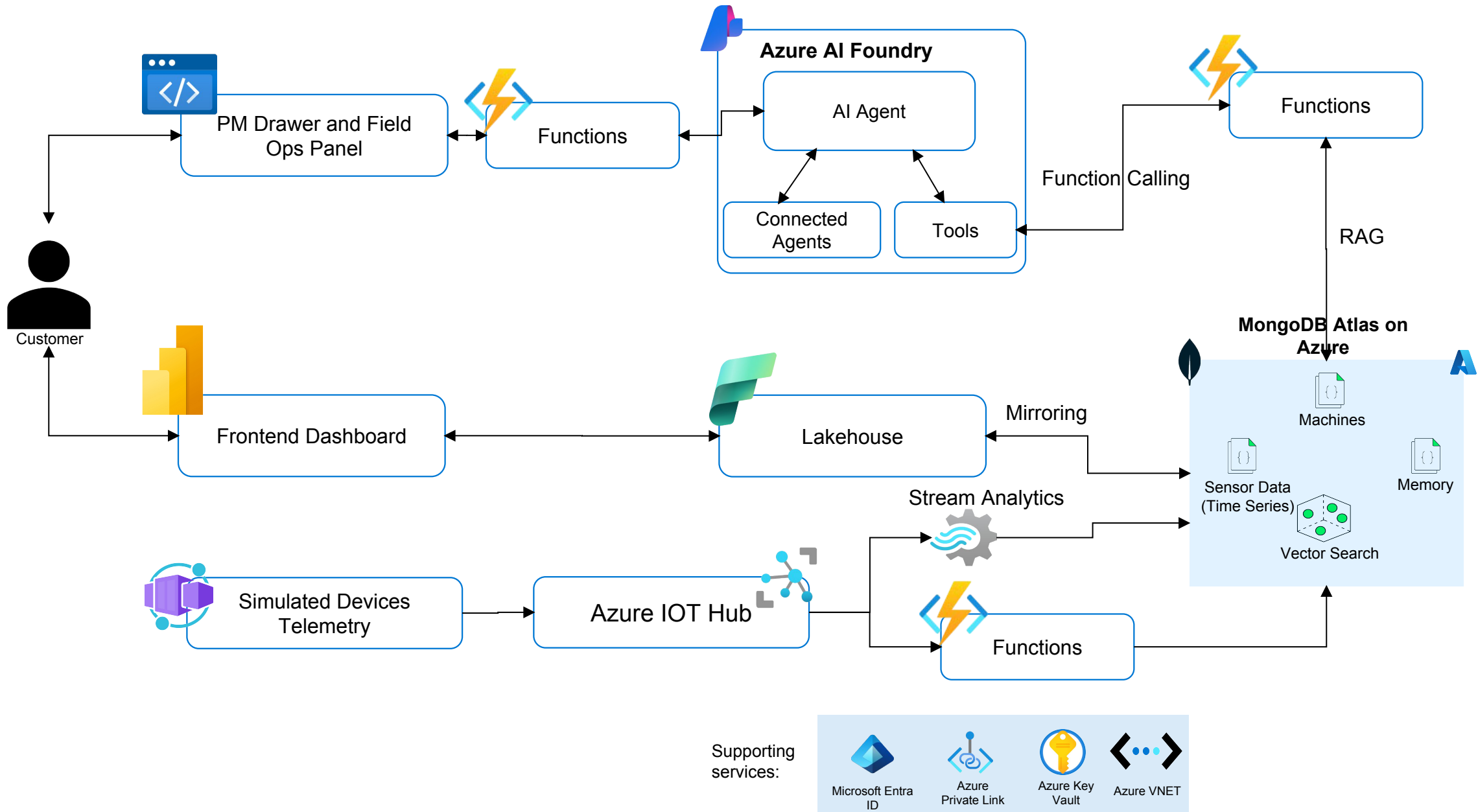
Evidence Package: Each ticket contains statistical analysis, anomaly spikes, knowledge base IDs, analyzer timestamps, and complete execution audit trail for regulatory compliance.

Demo Storyboard

Step-by-step demonstration flow showcasing complete agent-aware workflow from detection to reporting.

Baseline & Curation	Field Operations Agent	Predictive Maintenance Alert Response
Display normal telemetry chart, then toggle Curated overlay to demonstrate gap-filling capabilities and data quality improvements	Execute Analyze → Plan → Approve workflow, observing real-time card animations and status updates during execution	Wait for predictive maintenance alert bell, open side drawer to review automated risk assessment and recommendations
Fabric Integration	Execution & Audit	System of Record
Click Troubleshooting link to open Power BI report filtered to specific meter, demonstrating seamless analytics integration	Return to drawer, execute Approve & Execute, observe status pills and raw JSON responses in both action cards	Open Live Maintenance Log to verify new ticket creation with complete audit trail and evidence package
Operations Overview		
Launch Operations Manager Power BI report to show cumulative fleet metrics and KPI updates reflecting recent activity		

System Architecture

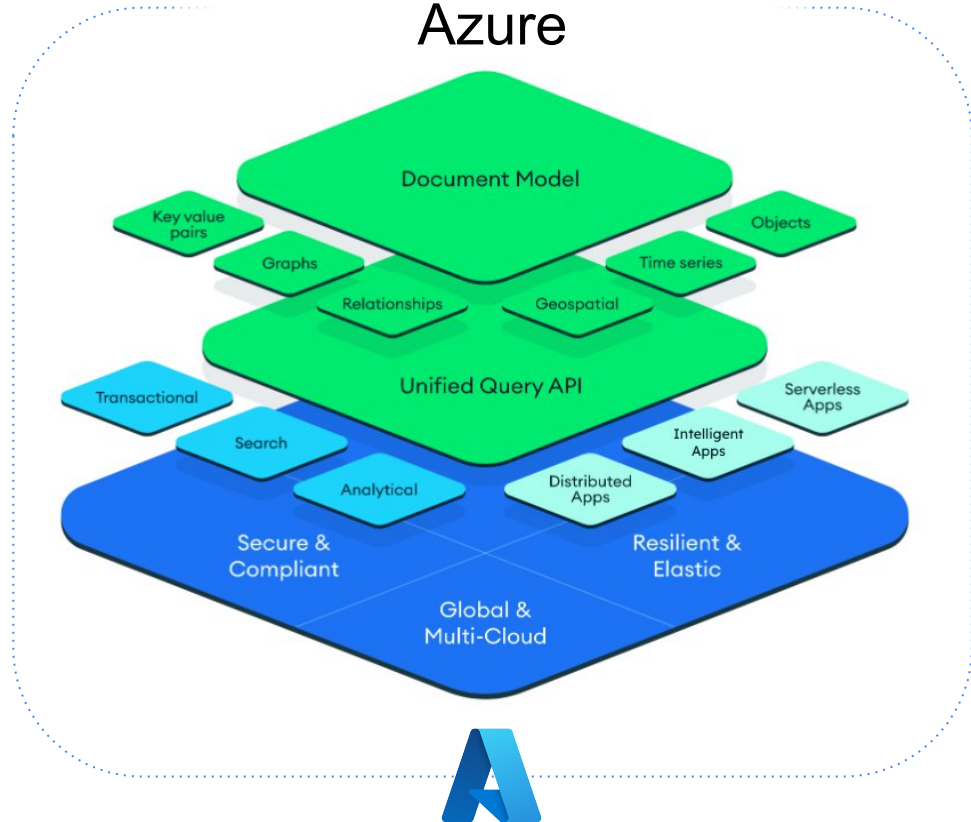




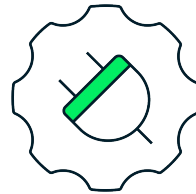
Integrations

Microsoft Power Platform

MongoDB Atlas on Azure



Atlas Data API



Certified Custom Connector (GitHub)

Premium Connector



Power Apps

Application Development

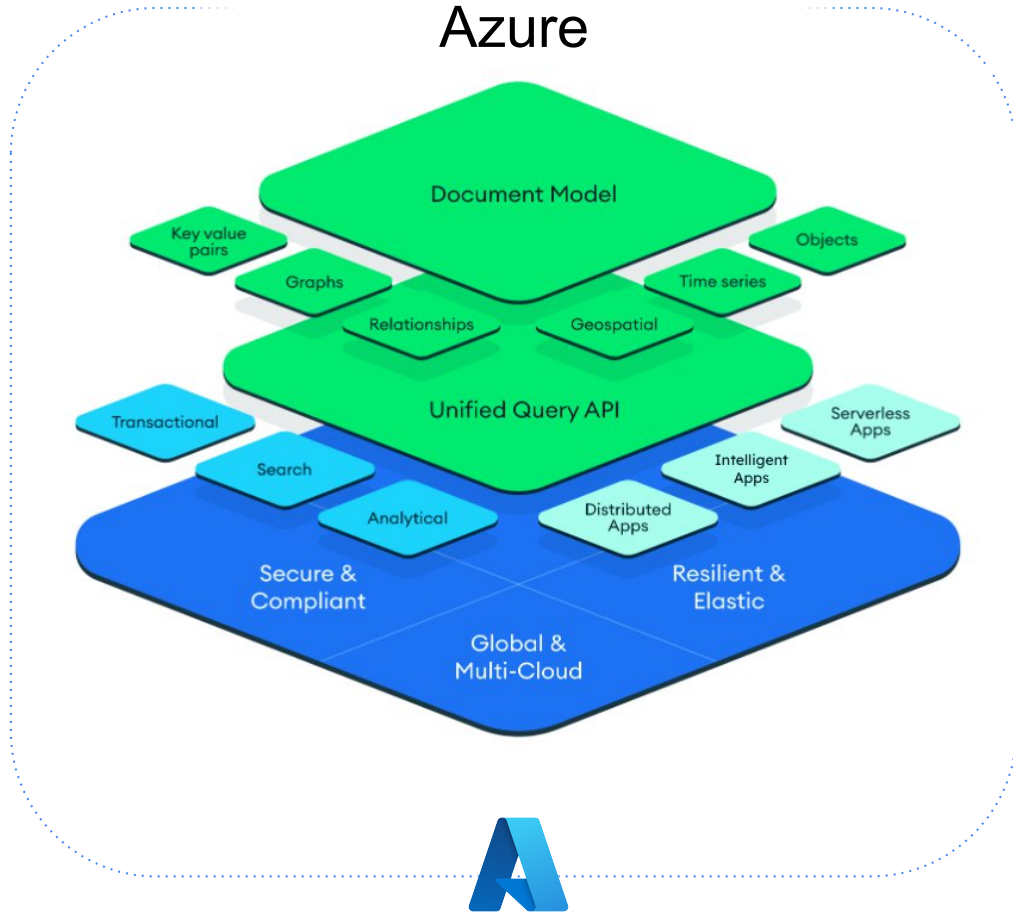


Power Automate

Process Automation

Developer Tools

MongoDB Atlas on Azure



IDE



VS Code
Extension



GitHub
Copilot

Frameworks



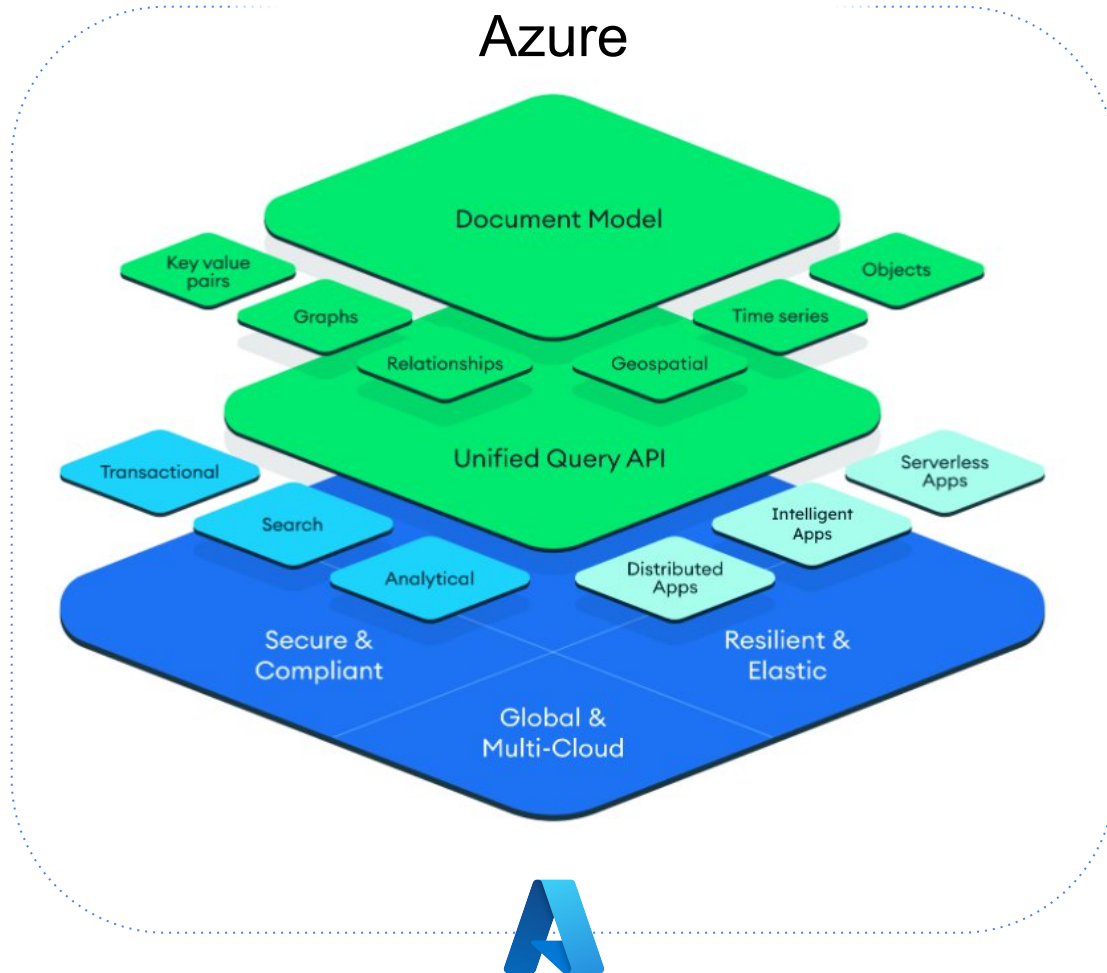
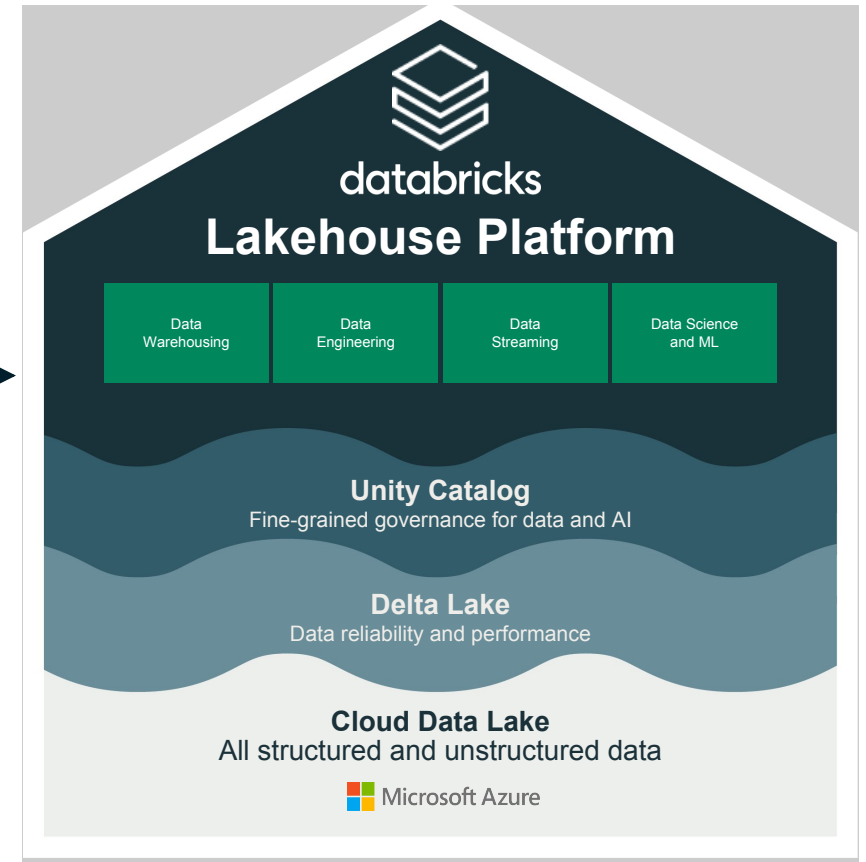
Semantic
Kernel



Entity Framework
Core

Azure Databricks

MongoDB Atlas on Azure



Microsoft Power BI

MongoDB Atlas on Azure



MongoDB Atlas SQL & ODBC

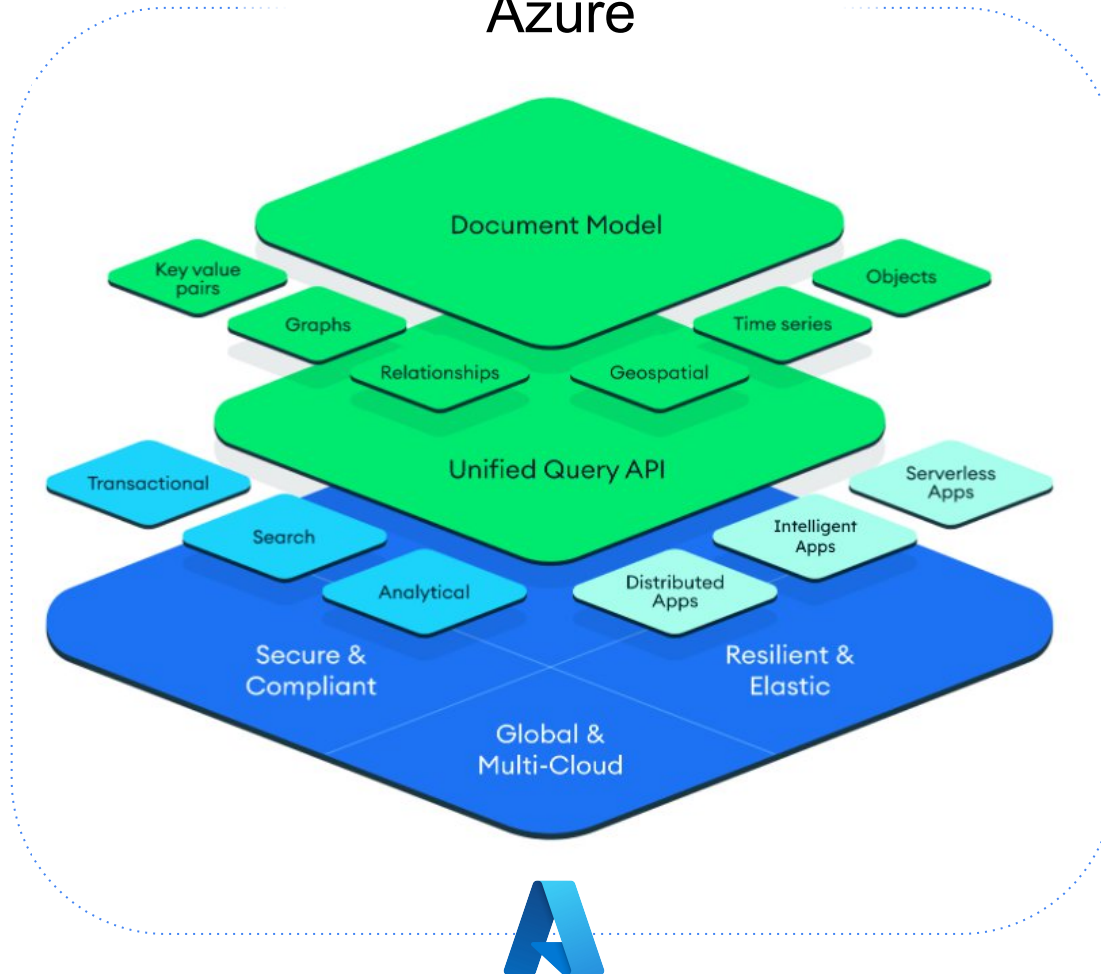
MSFT Fabric Dataflow Gen2



Power BI

Network & Security

MongoDB Atlas on Azure



Network & Security



Azure
VNET



Azure
PrivateLink



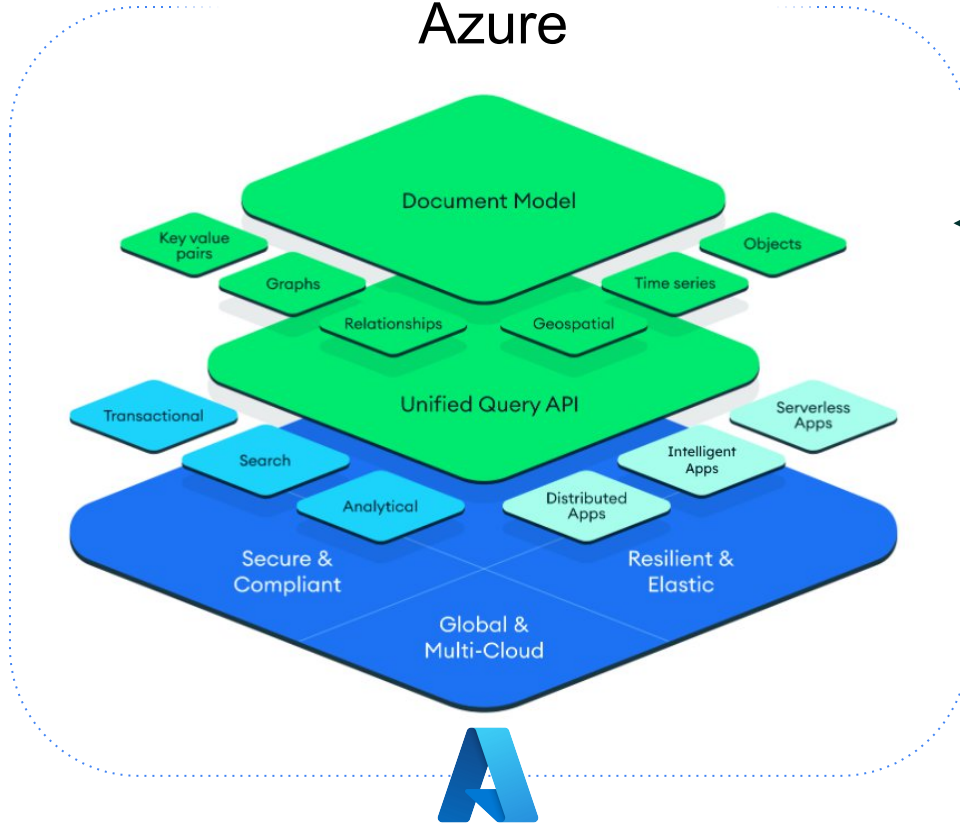
Azure Entra ID



Azure Key
Vault

Microsoft Purview

MongoDB Atlas on Azure

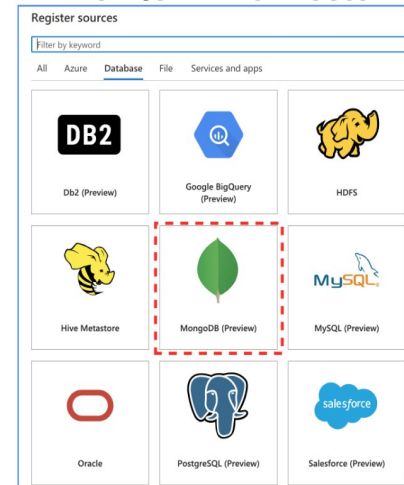


**Self-Hosted
Integration
Runtime**

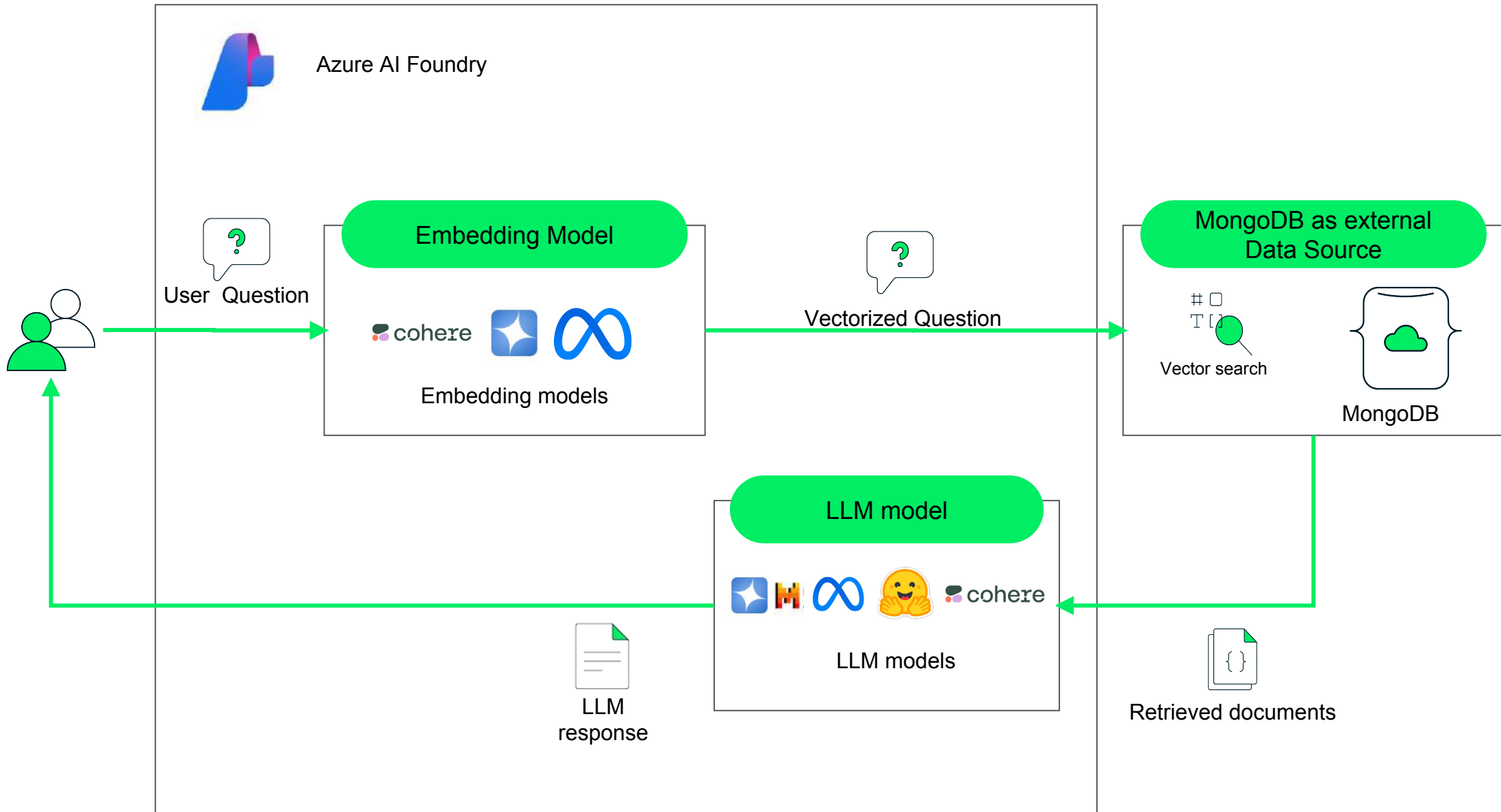


Purview

MongoDB Connector



RAG using MongoDB Atlas & Azure AI Foundry



Compass

{ } My Queries

CONNECTIONS (1)

Search connections

▼ azim-fabric-test.nvpj0.mongodb.net

▶ admin

▶ config

▶ local

▼ sample_mflix

▶ comments

▶ embedded_movies

▶ movies

▶ sessions

▶ theaters

▶ users

embedded_movies

sample_mflix



azim-fabric-test.nvpj0.mongodb.net > sample_mflix > embedded_movies

>_ Open MongoDB shell

Documents

3.5K

Aggregations

Schema

Indexes 1

Validation

Type a query: { field: 'value' } or [Generate query](#)

Explain

Reset

Find



Options

+ ADD DATA

EXPORT DATA

UPDATE

DELETE

25

1 - 25 of 3483

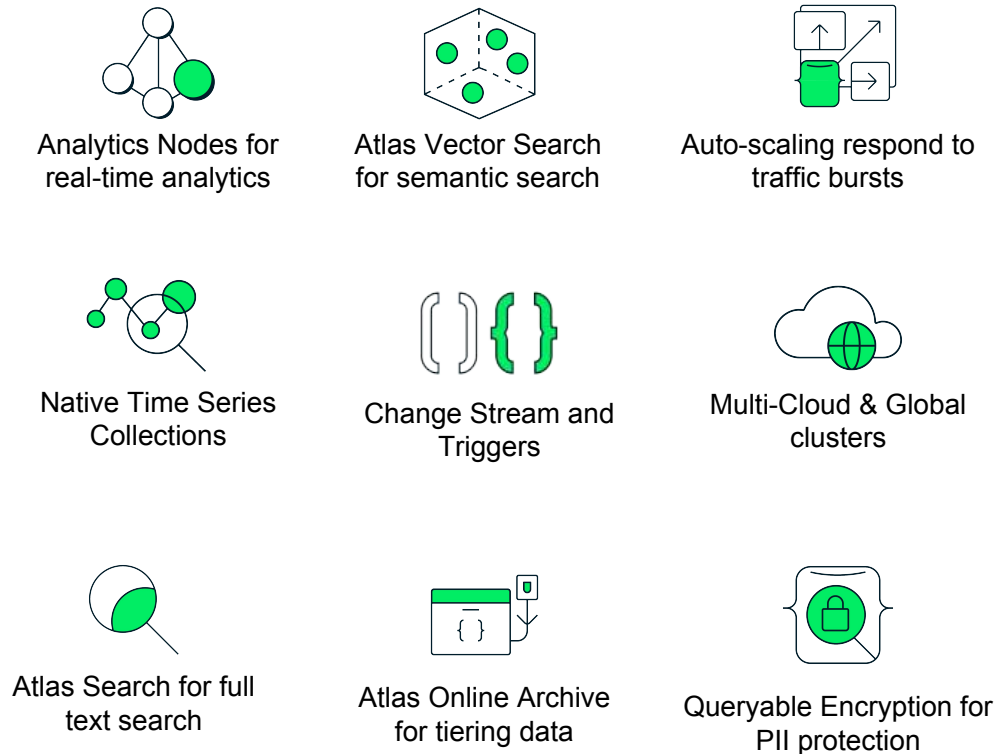


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  "plot": "Young Pauline is left a lot of money when her wealthy uncle dies. Howe...",
  "genres": Array (1)
    0: "Drama"
  "runtime": 199
  "cast": Array (4)
    0: "Pauline Goddard"
    1: "John Harrington"
    2: "John Harrington"
    3: "John Harrington"
  "num_mflix_comments": 0
  "poster": "https://m.media-amazon.com/images/M/MV5BMzgxdGk1Mzk2Ml5BMl5BanBnXkFtZT..."
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  "fullplot": "Young Pauline is left a lot of money when her wealthy uncle dies. Howe..."
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  "released": 1914-03-23T00:00:00.000+00:00
  "directors": Array (2)
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    1: "Paul Iribe"
  "writers": Array (5)
    0: "Paul Iribe"
    1: "Paul Iribe"
    2: "Paul Iribe"
    3: "Paul Iribe"
    4: "Paul Iribe"
  "awards": Object
    lastupdated: "2015-09-12 00:01:18.647000000"
    year: 1914
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  "type": "movie"
  "tomatoes": Object
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{
  "_id": ObjectId('573a1391f29313caabcd68d0')
}
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Converging Transactional and Analytical Workloads

MongoDB Atlas on Azure



Microsoft Fabric



Data Factory



Data Activator



Synapse



Power BI

OneLake



AMER
Workspace



EMEA
Workspace



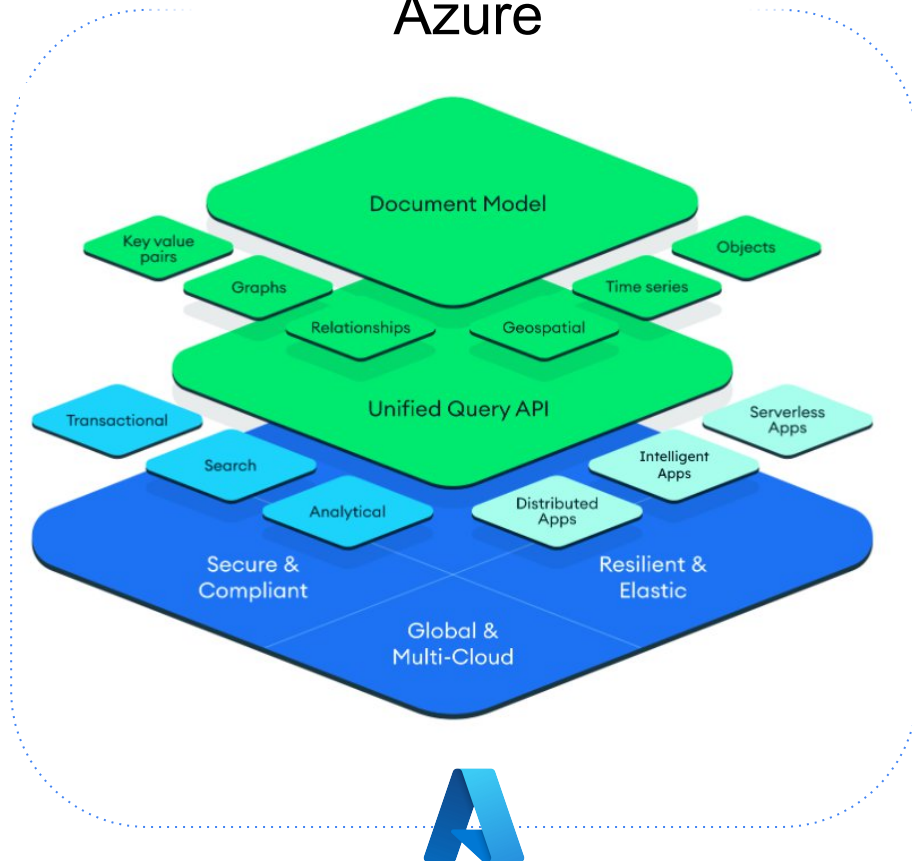
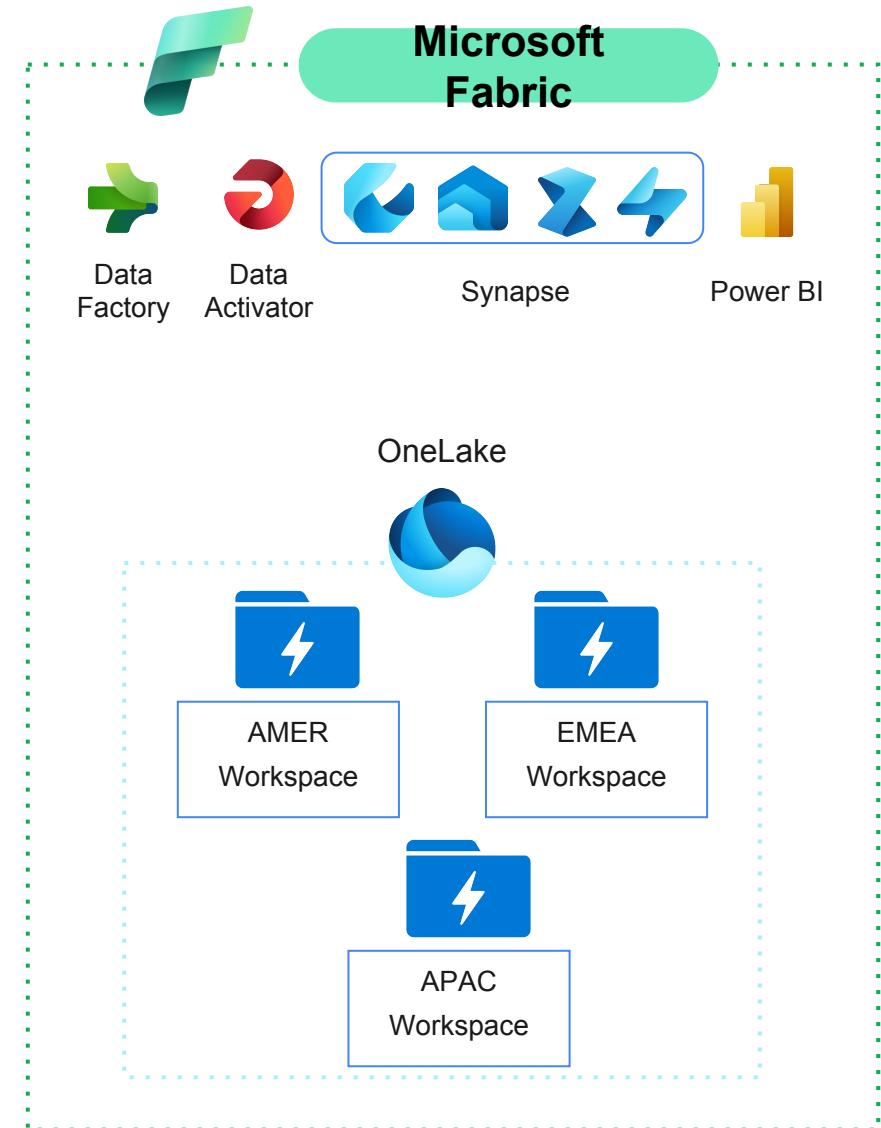
APAC
Workspace



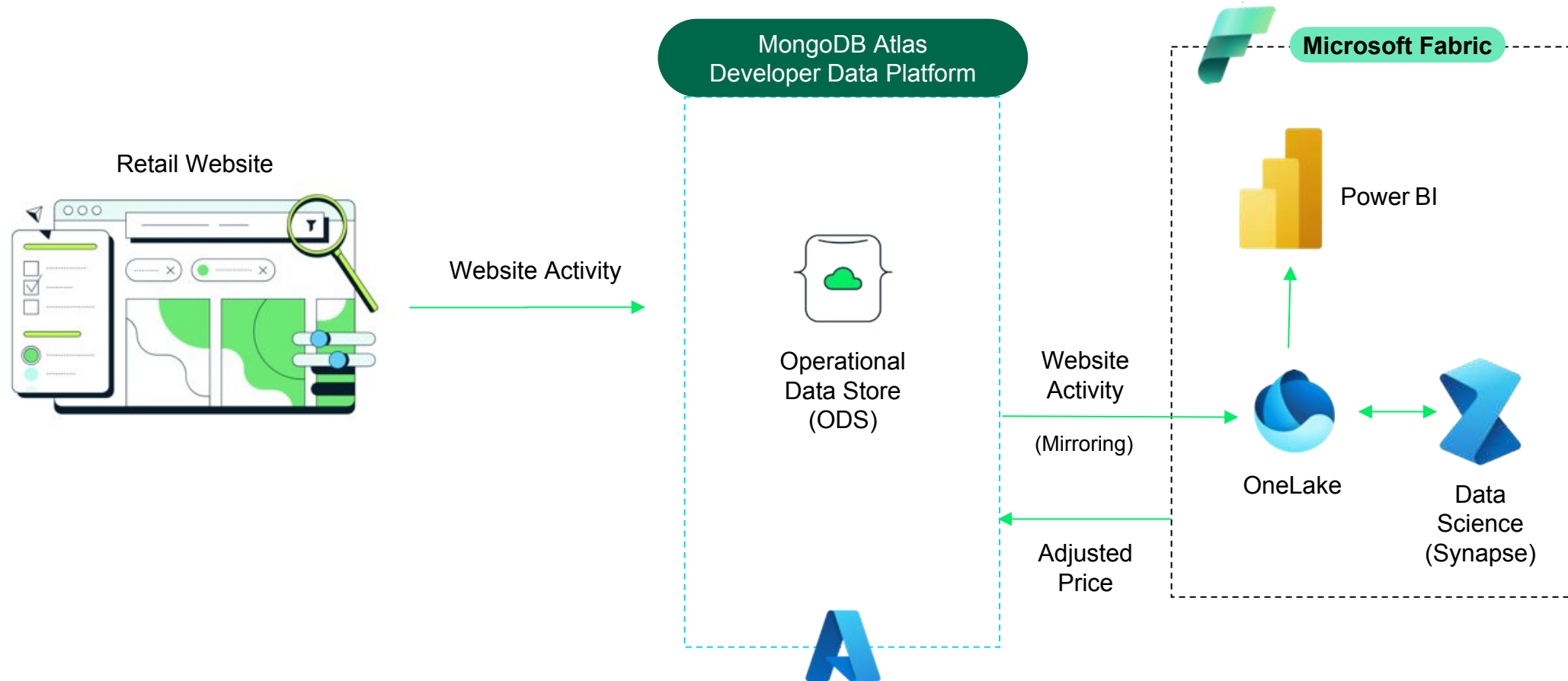
Azure AI Foundry

Microsoft Fabric

MongoDB Atlas on Azure



Retail Dynamic Pricing - High Level Architecture



Search results for handbag

Show
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Lino Perros Women Solid Tan Ha

Lino Perros

 \$345 
- 

Lino Perros Women Leatherette

Lino Perros

 \$273 
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OTLS Unisex Beige Bag

OTLS

 \$100 
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Mod'acc Women Pink & Beige Han

Mod'acc

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Kiara Women Beige & Yellow Han

KIARA

 \$267 
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Kiara Women Beige Handbag

KIARA

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