



Case Study

Driving Migration Certainty:

Exploring Microsoft Fabric with a Structured PoC & Governance Framework in 6 Weeks

Client Overview

Leading healthcare institutions manage highly complex, hybrid data landscapes where legacy on-premises systems and modern cloud applications often create operational silos. This case study details a focused, 6-week Microsoft Fabric Proof of Value (PoV) and enterprise governance framework executed for the organisation. The initiative successfully addressed platform feasibility doubts, integrated disparate data pipelines, and delivered an empirical, metrics-backed roadmap that allows leadership to commit to large-scale modernization with complete certainty.

The Challenge?



System Fragmentation

Navigating complex data integration across scattered on-premises environments and cloud-hosted data structures.



Migration Uncertainty

A complete lack of documented migration pathways or performance benchmarks to transition securely from established Azure Data Factory and Tableau investments.



Governance Vulnerabilities

Absence of unified CI/CD pipelines, capacity modeling, and enterprise data governance to safely scale adoption across sensitive clinical and research areas.

Solution Delivered



Empirical Proof of Value Layer

A production-grade testing environment used to validate Microsoft Fabric against actual enterprise workloads and high-volume data scenarios over a strict 6-week timeline.



Secure Hybrid Ingestion Engine

Automated ingestion pipelines deployed across SQL, Oracle, APIs, S3, and local servers, backed by enterprise-grade secure gateway protocols.



Unified Release & Governance Framework

A comprehensive framework detailing standardized naming conventions, scalable design patterns, and automated CI/CD engineering via GitHub.



Cognitive Analytics Readiness

A detailed operational evaluation mapping out Power BI semantic modeling, AI-powered Copilot reporting, and role-based workspace permissions.

The Impact

Increased Data Velocity

Demonstrated an approximate **20%** increase in pipeline execution speeds inside Microsoft Fabric versus existing Azure Data Factory configurations.

Optimized Reporting Analytics

Generated a **25%** improvement in reporting performance and strict SLA adherence compared to the legacy Tableau and Power BI architectures.

Risk-Free Enterprise Scaling

Established a formal, highly governed Fabric adoption roadmap that completely removes architectural guesswork from future expansions.

Decisive Strategic Alignment

Provided concrete evidence and robust data security protocols, enabling corporate leadership to confidently commit to the platform migration.

Outcome

Shifting from a fragmented, multi-tool data ecosystem to a unified, governed analytics platform does not require taking on operational risks. By validating actual enterprise workloads through a tightly structured, 6-week Proof of Value, The institute successfully replaced technical uncertainty with clear performance data. This engagement provides the exact security, velocity, and architectural control required to eliminate implementation roadblocks, accelerate clinical data insight, and build an enterprise analytics environment that is scale-ready.



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