



# The Microsoft Fabric Architect's Handbook

2026 Edition: Strategic Comparisons, Migration Guides,  
and Troubleshooting for Data Engineers

**>> CLICK HERE: Access the Interactive Tutorial Series**

# 1. Strategy & Architecture

*Decision frameworks for the modern data stack.*

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- [Fabric vs. Databricks \(Cost & Engine Comparison\)](#)
- [Fabric vs. Snowflake: When to Migrate?](#)
- [Fabric vs. Azure Synapse: The Full Transition Guide](#)
- [Apache Iceberg vs. Delta Lake: The Open Format War](#)
- [Lakehouse vs. Data Warehouse: Best Practices](#)
- [Fabric Pricing Calculator \(Capacity Estimation\)](#)

## CONSULTANT'S NOTE:

Don't just lift and shift. Use the 'Fabric vs Synapse' guide to understand where OneLake shortcuts can save you 40% on storage costs by avoiding duplication.

## 2. Engineering & Migration

*Technical guides for building robust pipelines.*

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- [Power BI Premium to Fabric Migration Guide](#)
- [Data Pipelines Masterclass \(Step-by-Step\)](#)
- [dbt Best Practices for SQL Transformations](#)
- [Data Mirroring: Real-Time Replication \(2025\)](#)
- [Eventstreams: Handling Real-Time Data](#)
- [Using Notebooks for Advanced Logic](#)

### CONSULTANT'S NOTE:

Using dbt? Review our 'SQL Transformation' guide. Fabric's Data Warehouse endpoint behaves differently than traditional SQL Server when handling large T-SQL transactions.

## 3. Security, Governance & AI

*Protecting data while enabling innovation.*

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- [Microsoft Fabric Data Governance Tutorial](#)
- [Cloud Security Tips for OneLake](#)
- [Capacity Optimization & throttling](#)
- [Fabric RAG Tutorial: Trustworthy AI](#)
- [AI Agents in Data Engineering](#)
- [Deepfake Detection & AI Integrity](#)

### CONSULTANT'S NOTE:

Security Alert: Default OneLake settings are open. Use the 'Cloud Security Tips' guide to lock down workspace roles before inviting external users.

## 4. The "Fix-It" Encyclopedia

*Specific solutions for common Fabric errors.*

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- [FIX: OneLake Shortcut Authorization Failed](#)
- [FIX: Dataflow Gen2 Error 20302](#)
- [FIX: 403 Forbidden in Airflow/Kubernetes](#)
- [FIX: Spark Shuffle Partition Optimization](#)
- [FIX: Copy Activity CSV Column Not Found](#)
- [FIX: Py4JJavaError Saving Delta Tables](#)

### CONSULTANT'S NOTE:

Bookmark this page. The 'Shuffle Partition' fix alone can reduce your Spark job runtime by 60% when dealing with skewed data distribution.