Synapse Lightning

Simplifies and accelerates migration of Azure data services into Synapse Analytics

- Automated swift migration of large-scale Data factory pipelines to synapse pipelines.

- Common Data Lake for Raw Data management.

- Multi Enterprise data integration.

- Automated swift migration of large-scale Azure Databricks scripts to Azure Synapse – Spark Pool.

Customer Challenges:

- Deriving meaningful insights from data and converting knowledge into action.

- Accelerating speed to discover and validate industry-specific business problems.

- Simplifying technological complexity leveraging Azure data services and Databricks.

- High TCO for usage of Azure Databricks and Azure Data services.

- Building self-learning models targeted to specific use cases and implementing swiftly/readily to build management's confidence in investing to gain scale.

- Capturing wide variety of data with ease while facilitating real-time, large-scale data processing and analysis.

Tools and Technologies:

- Data Orchestration: Synapse Data integration
- Data Lake: Azure Data Lake Storage
- Data Catalogue: Azure Data Catalogue
- Data warehouse: Azure Synapse – SQL Pools/Serverless Pools
- Streaming: Apache Kafka
- Batch: Spark ETL

- ML & Ops: Azure ML Services
- Big Data Environment: Azure Synapse Analytics

Our Offerings:

Accelerator to ease the migration for small, medium and large-scale Azure Synapse analytics transformation

Challenges	Our offerings	Benefits
Data factory pipelines — Medium and large scale ADF pipeline migration to Synapse Analytics is cumbersome	**ADF to Synapse Pipelines** — • Lift and shift migration • Azure DevOps integration • Logging, monitoring and exception handling	Reduce Cost : 30 %
Databricks scripts — Migration complexity of Azure Databricks scripts to Azure Synapse – spark pool	**ADB to Spark Pool** — • Lift and shift migration • Notebook chaining • Azure DevOps integration • Logging & exception handling	Efficiency : 50%
Delta Lake Migration — Bulk migration and conversion of Parquet files to Delta lake	**Delta Migrate** — • Lift and shift migration • Notebook chaining • Azure DevOps integration • Logging & exception handling	
EDW migration & modernization — Complexity on migrating from On-Premise/Azure SQL DW to Azure Synapse SQL Pool or Serverless pool	**Synapse Pathway** — • Lift and shift migration of On-Prem/Azure SQL DW to Azure Synapse SQL dedicated pools or Serverless pools • Lift and shift migration of cosmosdb to Azure Synapse SQL • Azure DevOps integration • Logging & exception handling • Automated Reconcilation testing	

Benefits:

- Accelerator to ease the migration for small, medium, and large-scale Azure Synapse analytics transformation

- Data factory Pipelines: Medium and large scale ADF pipeline migration to Synapse Analytics is cumbersome. Easily lift and shift to Synapse data integration at scale.

- Azure Databricks scripts: Migration complexity of Azure Databricks scripts to Azure Synapse – spark pool. Lift and shift migration at scale to Synapse spark pool, Notebook chaining, Azure DevOps integration, Logging & exception handling.

- Delta Lake Migration: Bulk migration and conversion of Parquet files to Delta Lake.

- Reduced costs by 30% and Efficiency improvements by 50%.