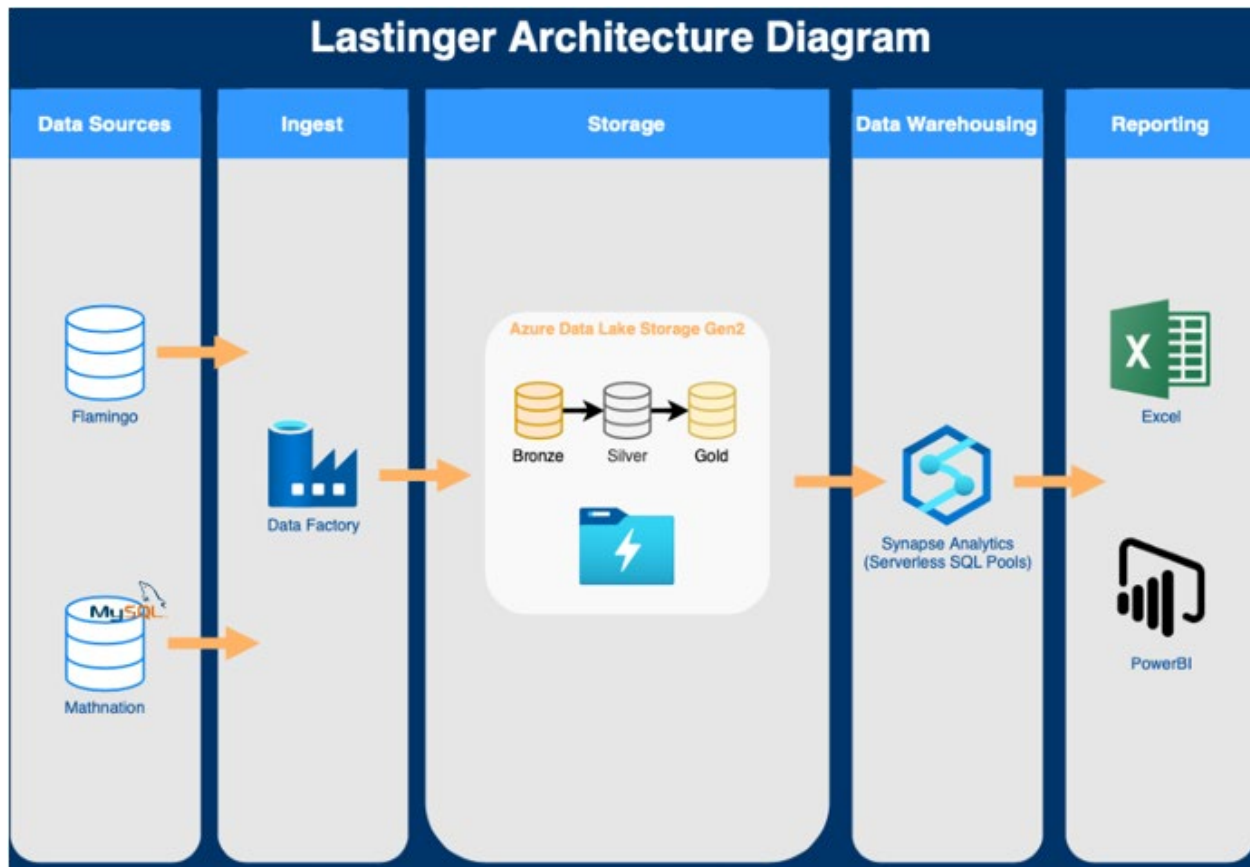# Data Lagoon Azure Platform Architecture

Five main components were utilized in this solution:

- Azure Data Factory

- Azure Data Lake

- Azure Synapse Analytics

- Power BI

- Azure Blob Storage

The following diagram outlines the high-level architecture and Azure resources utilized for this solution:

Data Lagoon Azure Platform Architecture

Azure Data Factory

Azure Data Factory (ADF) is Azure's cloud ETL service for scale-out serverless data integration and data transformation. Specific to this deployment ADF is being used to pull data from the Lastinger Center's learning applications, then store it in the Azure Data Lake.

Azure Data Lake

Azure Data Lake is a scalable and secure data lake for your high-performance analytics workloads. This is the storage location for all data collected from learning applications.

Azure Synapse Analytics

Azure Synapse Analytics is a limitless analytics service that brings together data integration, enterprise data warehousing, and big data analytics.

Power BI

Power BI is a collection of software services, apps, and connectors that work together to turn unrelated sources of data into coherent, visually immersive, and interactive insights.

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