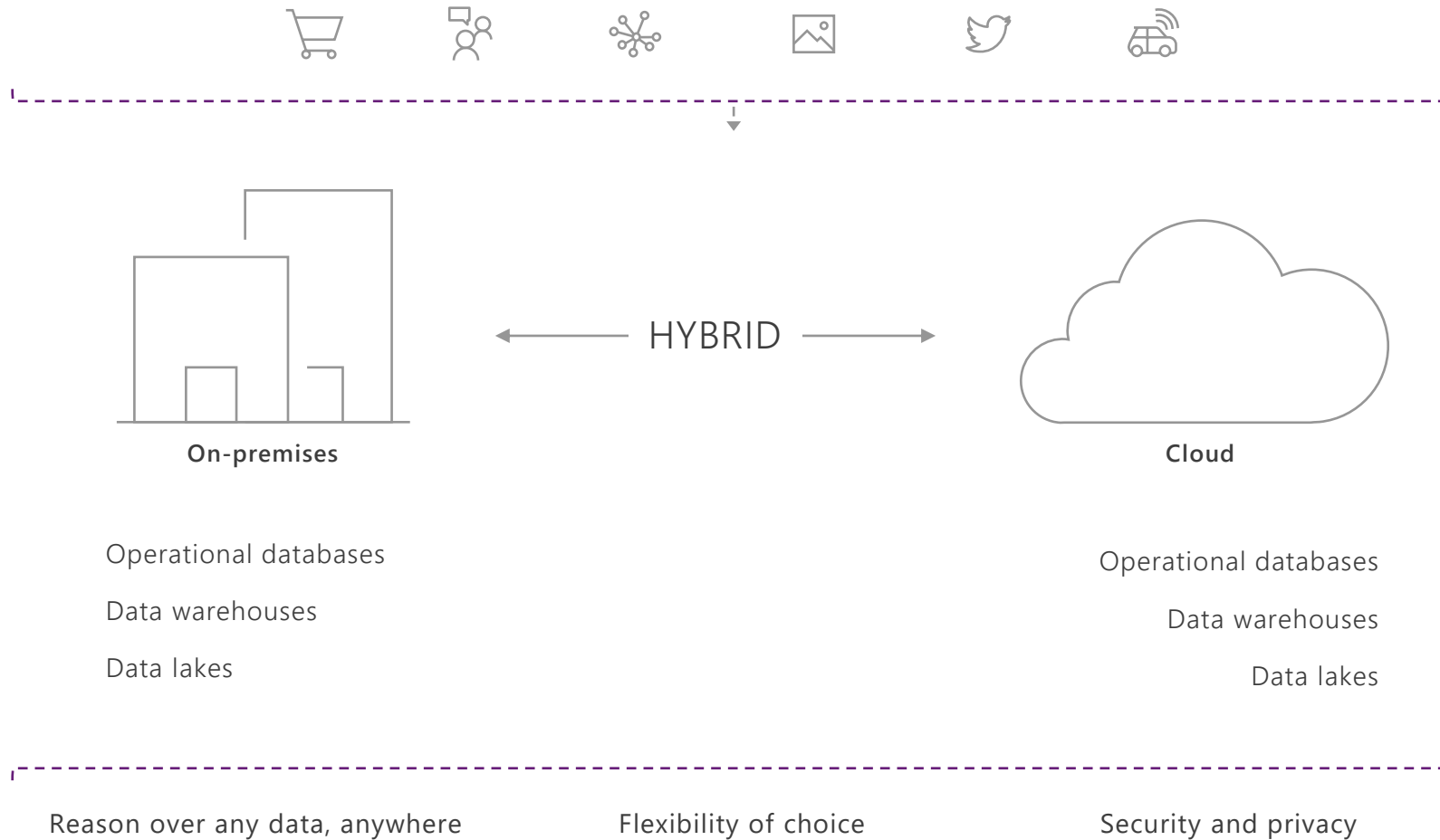


Modern Data Management on Azure

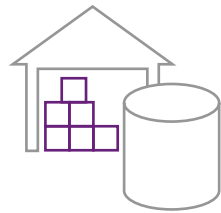
“Simple ETL”

The modern data estate

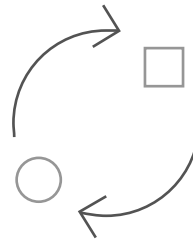


Azure Data Factory

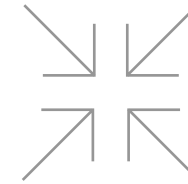
Fully-managed data integration service in the cloud



Flexible
Data integration



Hybrid
Data orchestration

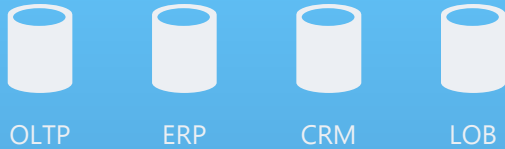


Data movement
As-a-service

Security and compliance

HYBRID DATA INTEGRATION AT SCALE

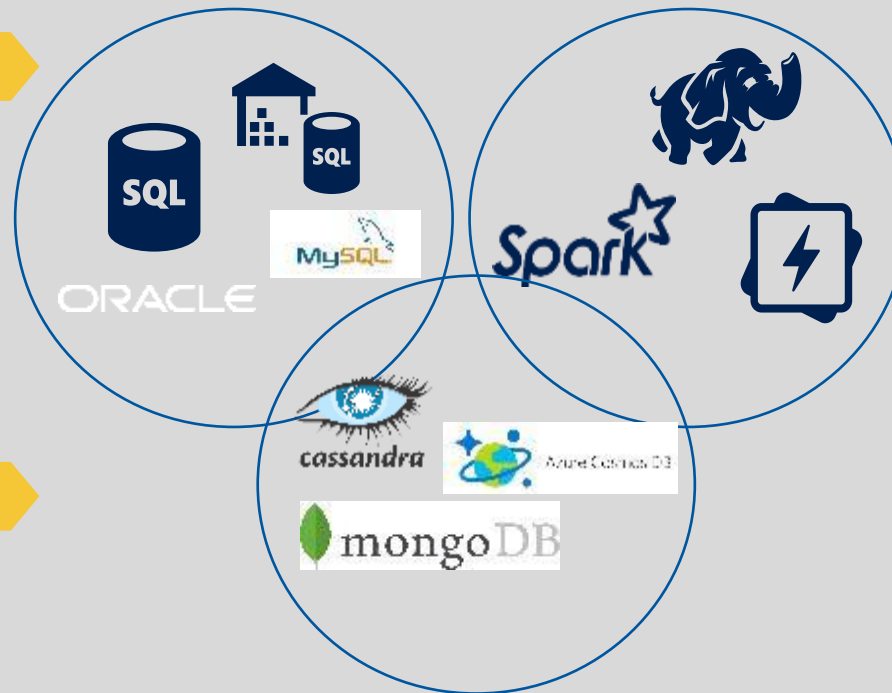
Relational data



Non-relational data



Data Processing & Movement



Any BI tool



Dashboards | Reporting
Mobile BI | Cubes

Advanced Analytics



Machine Learning
Stream analytics Cognitive | AI

Any language



.NET | Java | R | Python
Ruby | PHP | Scala

CLOUD



V-NET



ON-PREMISE



Access all your data

- Hybrid connectivity using self-hosted IR: on-prem & VNet

Azure	Database		File Storage	NoSQL	Services and Apps		Generic
Azure Blob Storage	Amazon Redshift	SQL Server	Amazon S3	Couchbase	Dynamics 365	Salesforce	HTTP
Azure Data Lake Store	Oracle	MySQL	File System	Cassandra	Dynamics CRM	Salesforce Service Cloud	OData
Azure SQL DB	Netezza	PostgreSQL	FTP	MongoDB	SAP C4C	ServiceNow	ODBC
Azure SQL DW	SAP BW	SAP HANA	SFTP		Oracle CRM	Hubspot	
Azure Cosmos DB	Google BigQuery	Informix	HDFS		Oracle Service Cloud	Marketo	
Azure DB for MySQL	Sybase	DB2			SAP ECC	Oracle Responsys	
Azure DB for PostgreSQL	Greenplum	MariaDB			Zendesk	Oracle Eloqua	
Azure Search	Microsoft Access	Drill			Zoho CRM	Salesforce ExactTarget	
Azure Table Storage	Hive	Phoenix			Amazon Marketplace	Atlassian Jira	
Azure File Storage	Hbase	Presto			Magento	Concur	
	Impala	Spark			PayPal	QuickBooks Online	
	Vertica				Shopify	Xero	
					GE Historian	Square	
					Web table		

* Supported file formats: CSV, AVRO, ORC, Parquet, JSON

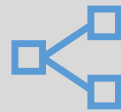


Overview of Azure Data Factory

Azure Data Factory Concepts

Pipelines

Activities



Linked Services



Datasets



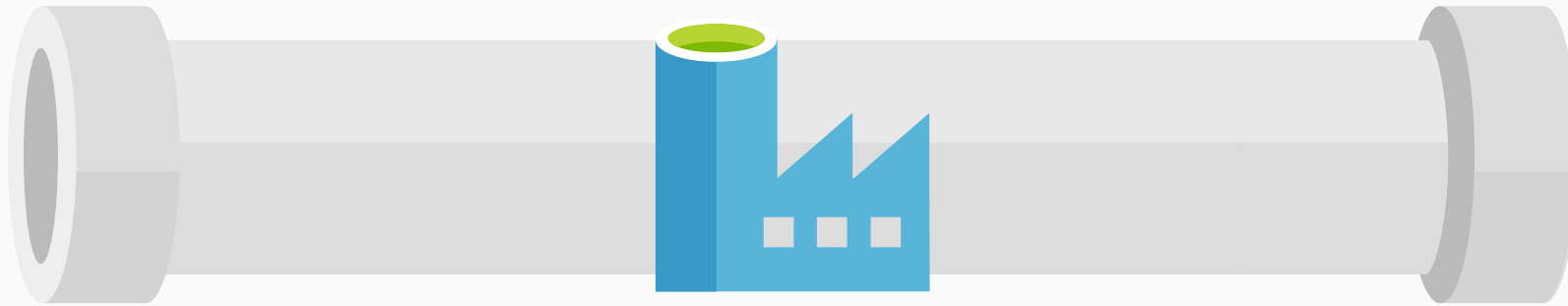
Triggers



Integration Runtime



Azure Data Factory



Visual UI

Drag and Drop

Code Support

Python, .NET, ARM

Control Flow

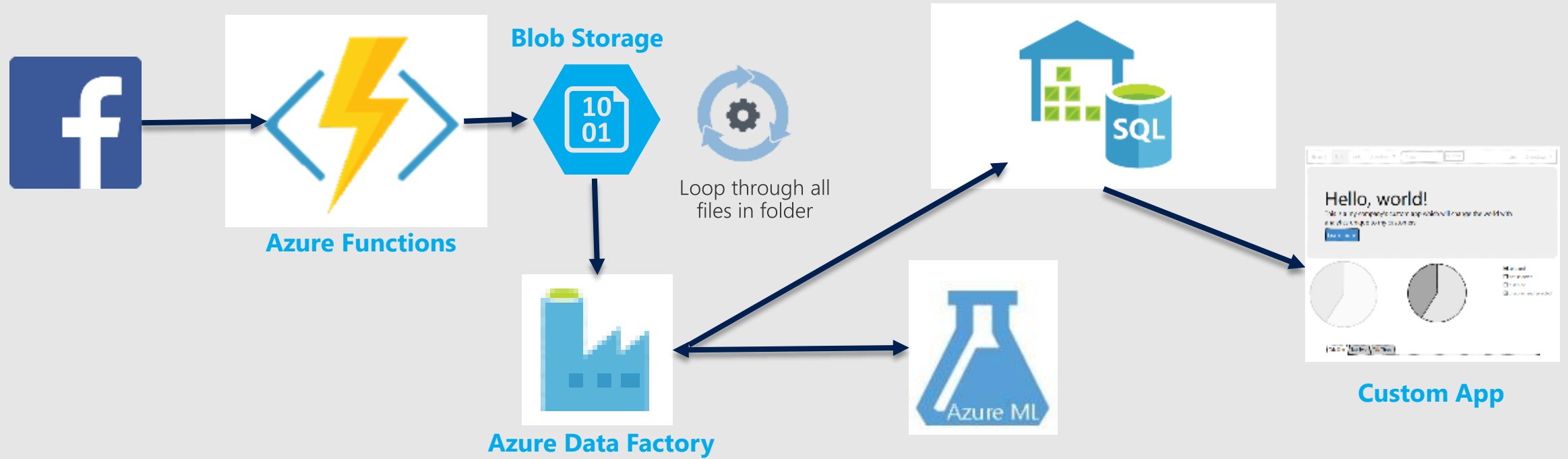
Loop, Branch, If

SSIS Execution

Lift and Shift

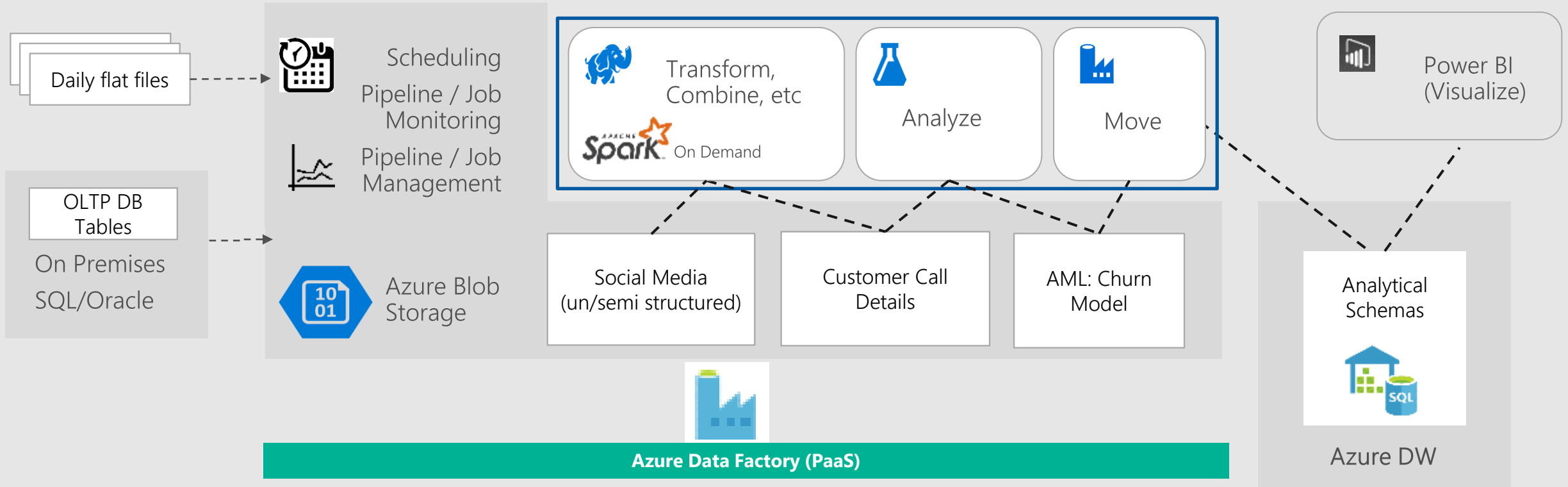
Hybrid Data Integration Pattern 1:

Data-Driven SaaS App: Sentiment Analysis w/Machine Learning



Hybrid Data Integration Pattern 2:

Modern Data Warehouse



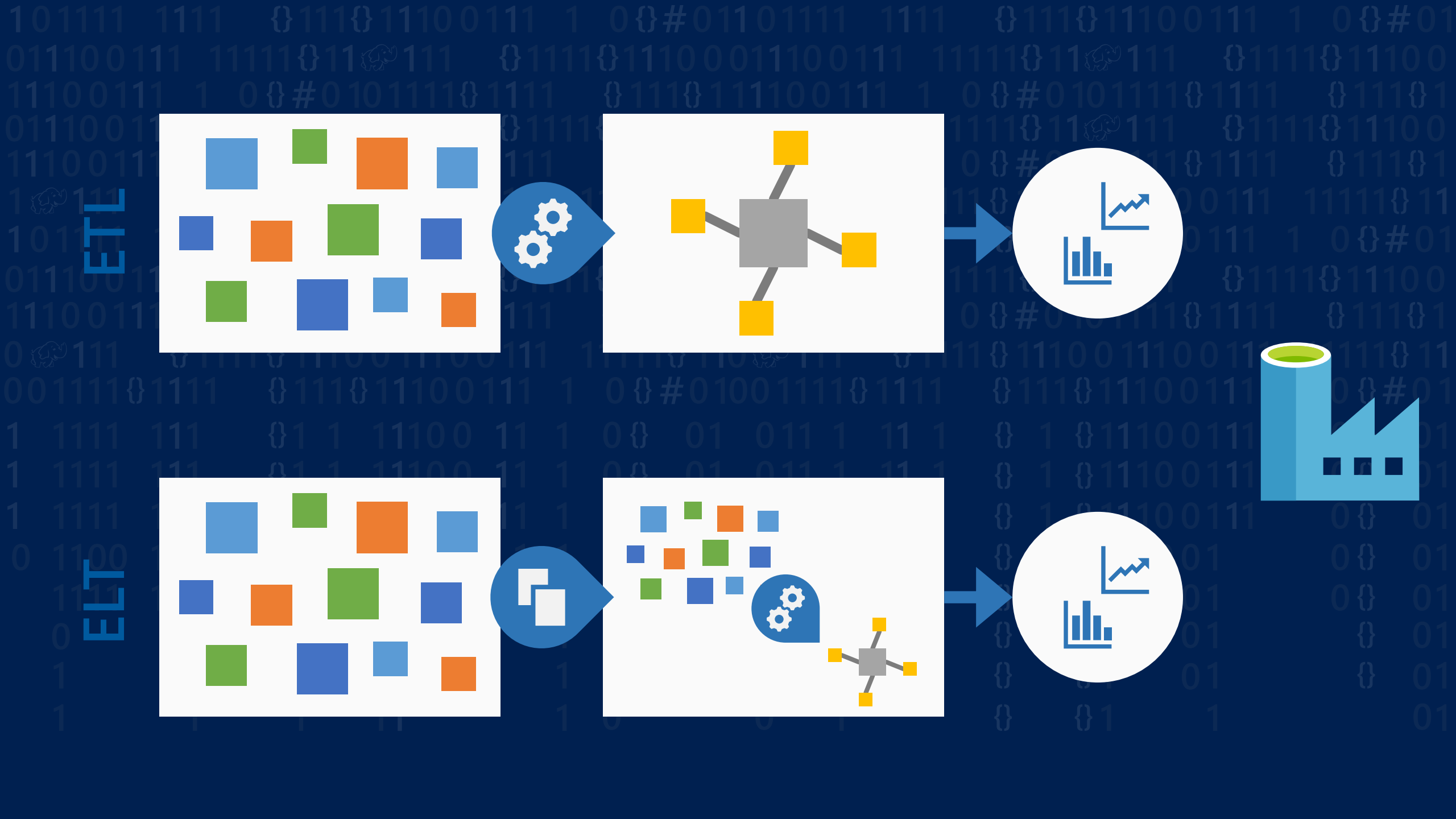
ETL vs ELT...

 **ELT** should be considered in these cases :

- There are large data volumes.
- The source database and the target database are the same.
- The database engine is well adapted for this kind of processing, such as [Azure SQL DW](#), which is great at loading massive amounts of data very quickly.

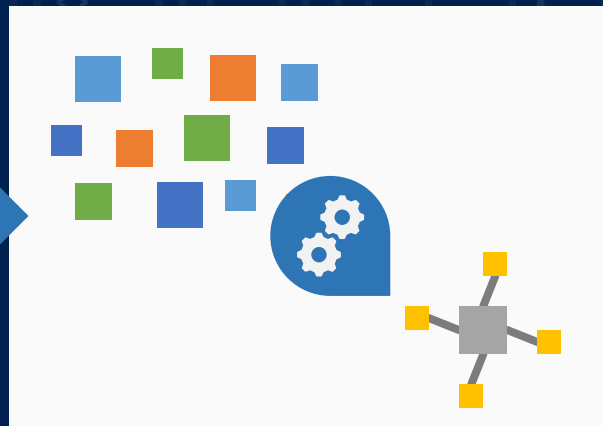
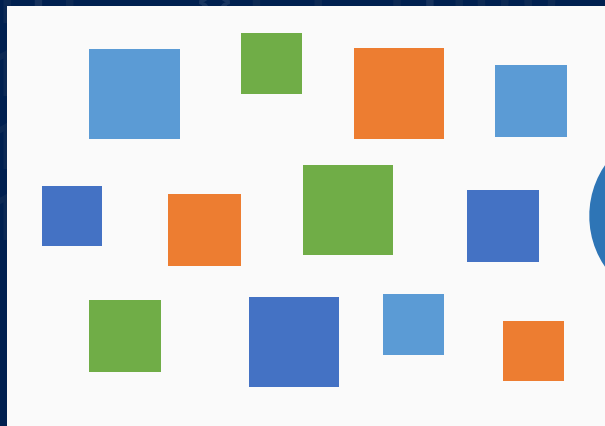
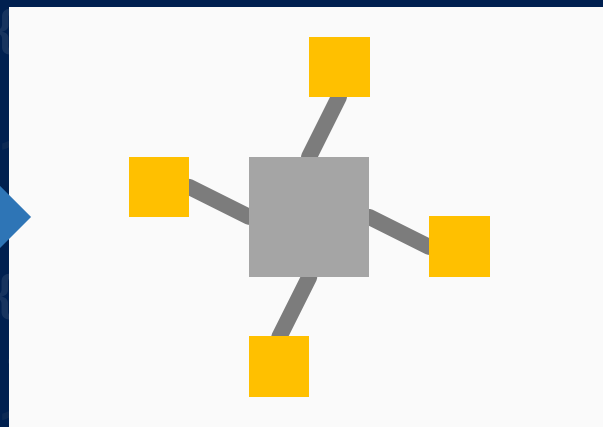
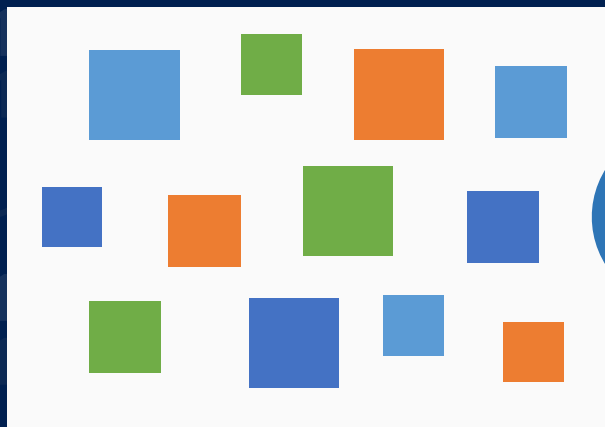
ETL = Transformations are processed by ETL tools. Data movement is usually required.

ELT = Transformations are processed by the target data source.



ETL

ELT





Delivery Manager



Delivery Man



Blob Storage



Customer.csv



Linked Service



Dataset



Copy Activity



Dataset



Linked Service



SQL



Customer Table

Azure Calculator


Microsoft Azure

[CONTACT SALES](#) [MY ACCOUNT](#) [PORTAL](#)

[Why Azure](#) [Solutions](#) [Products](#) [Documentation](#) [Pricing](#) [Training](#) [Marketplace](#) [Partners](#) [Blog](#) [Resources](#) [Support](#) [FREE ACCOUNT](#)

Pricing calculator

Configure and estimate the costs for Azure products



Products

Select a product to include it in your estimate.

Featured

Compute

Networking

Storage

Web

Mobile

Containers

Databases

Analytics

AI + Machine Learning

Internet of Things

Integration



Azure Cosmos DB

Globally distributed, multi-model database for any scale



Azure SQL Database

Managed relational SQL Database as a service



Azure Database for MySQL

Managed MySQL database service for app developers



Azure Database for MariaDB

Managed MariaDB database service for app developers



Azure Database for PostgreSQL

Managed PostgreSQL database service for app developers



SQL Data Warehouse

Elastic data warehouse as a service with enterprise-class features



Azure Database Migration Service

Simplify on-premises database migration to the cloud



Azure Cache for Redis

Power applications with high-throughput, low-latency data access



SQL Server Stretch Database

Dynamically stretch on-premises SQL Server databases to Azure



Data Factory

Hybrid data integration at enterprise scale, made easy

Azure Data Factory

<https://azure.microsoft.com/de-de/services/data-factory/>

Quickstart Tutorials for Data Factory

<https://docs.microsoft.com/en-us/azure/data-factory/quickstart-create-data-factory-portal>

Migration Guide

<http://datamigration.microsoft.com/>

Azure Pricing Calculator

<https://azure.microsoft.com/en-us/pricing/calculator/>