Microsoft

Azure Data Factory
Hybrid data integration, at global scale

There are barriers to getting value from data

⚠️

Data silos

⚠️

Incongruent
data types

⚠️

Complexity of
solutions

⚠️

Multi cloud
environment

⚠️

Rising costs

Derive real value from your data

Data silos	Incongruent data types	Performance constraints	Complexity of solutions	Rising costs
One hub for all data	Support for diverse types of data	Unlimited data scale	Familiar tools and ecosystem	Lower TCO

On-premises, hybrid, Azure

Organizations that harness data, cloud, and AI outperform

Nearly double operating margin

$100M in additional operating income

AZURE DATA FACTORY

Hybrid data integration, at global scale

PRODUCTIVE

HYBRID

SCALABLE

TRUSTED

✓ Drag & Drop UI

✓ Codeless Data Movement

✓ Orchestrate where your data lives

✓ Lift SSIS packages to Azure
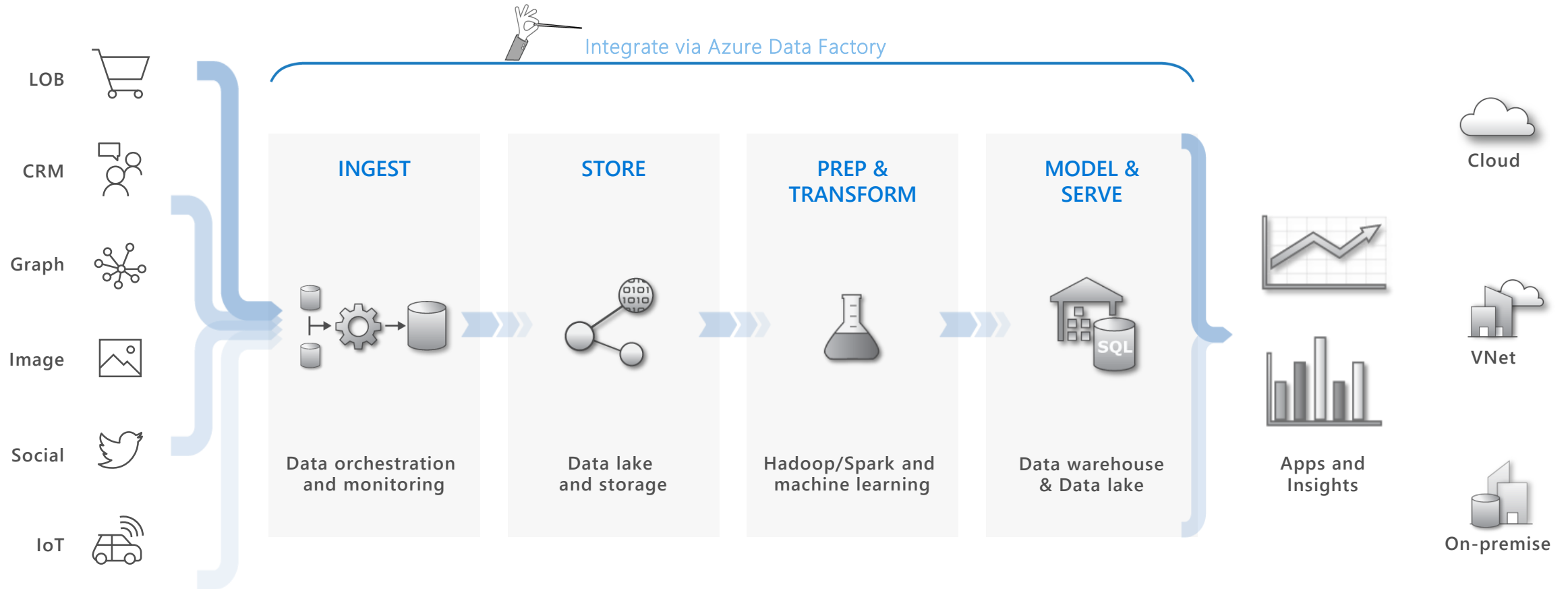
✓ Serverless scalability with no infrastructure to manage
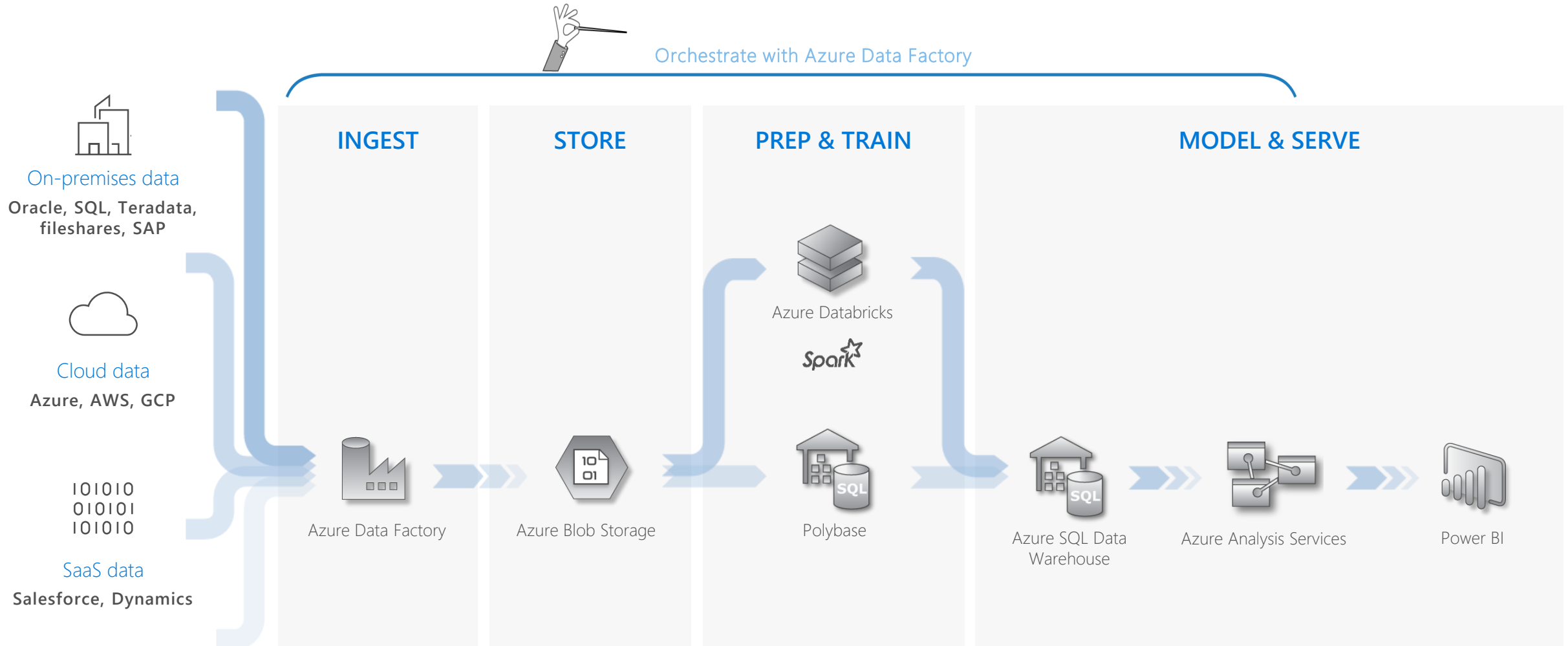
✓ Certified compliant Data Movement

AZURE DATA FACTORY

Hybrid data integration, at global scale

Integrate via Azure Data Factory

LOB

CRM

Graph

Image

Social

IoT

INGEST	STORE	PREP & TRANSFORM	MODEL & SERVE
Data orchestration and monitoring	Data lake and storage	Hadoop/Spark and machine learning	Data warehouse & Data lake

SQL

Cloud

VNet

On-premise

Apps and Insights

SCENARIOS

AZURE DATA FACTORY

Modernize your enterprise data warehouse at scale

Orchestrate with Azure Data Factory

On-premises data
Oracle, SQL, Teradata, fileshares, SAP

Cloud data
Azure, AWS, GCP

101010
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SaaS data
Salesforce, Dynamics

INGEST	STORE	PREP & TRAIN	MODEL & SERVE

Azure Databricks

Spark

Azure Data Factory

Azure Blob Storage

Polybase

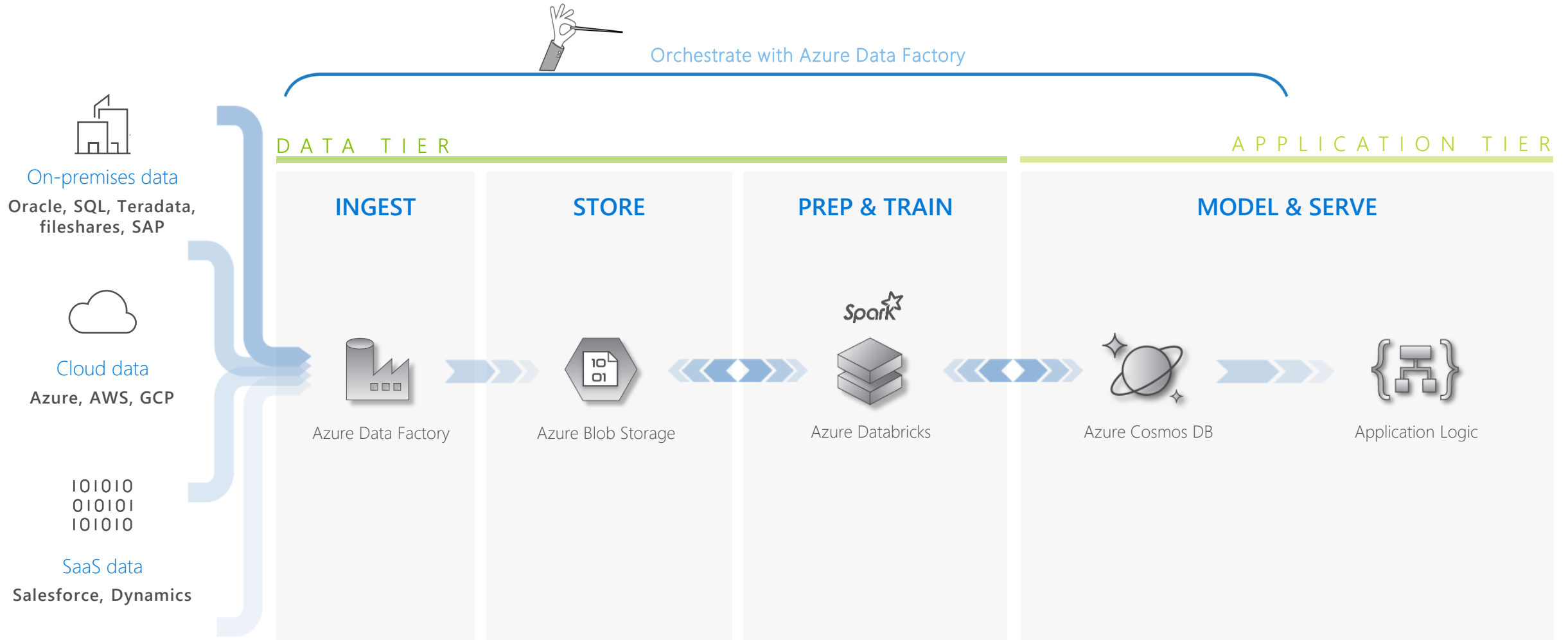Azure SQL Data Warehouse

Azure Analysis Services

Power BI

Microsoft Azure also supports other **Big Data** services like **Azure HDInsight**, **Azure SQL Database** and **Azure Data Lake** to allow customers to tailor the above architecture to meet their unique needs.
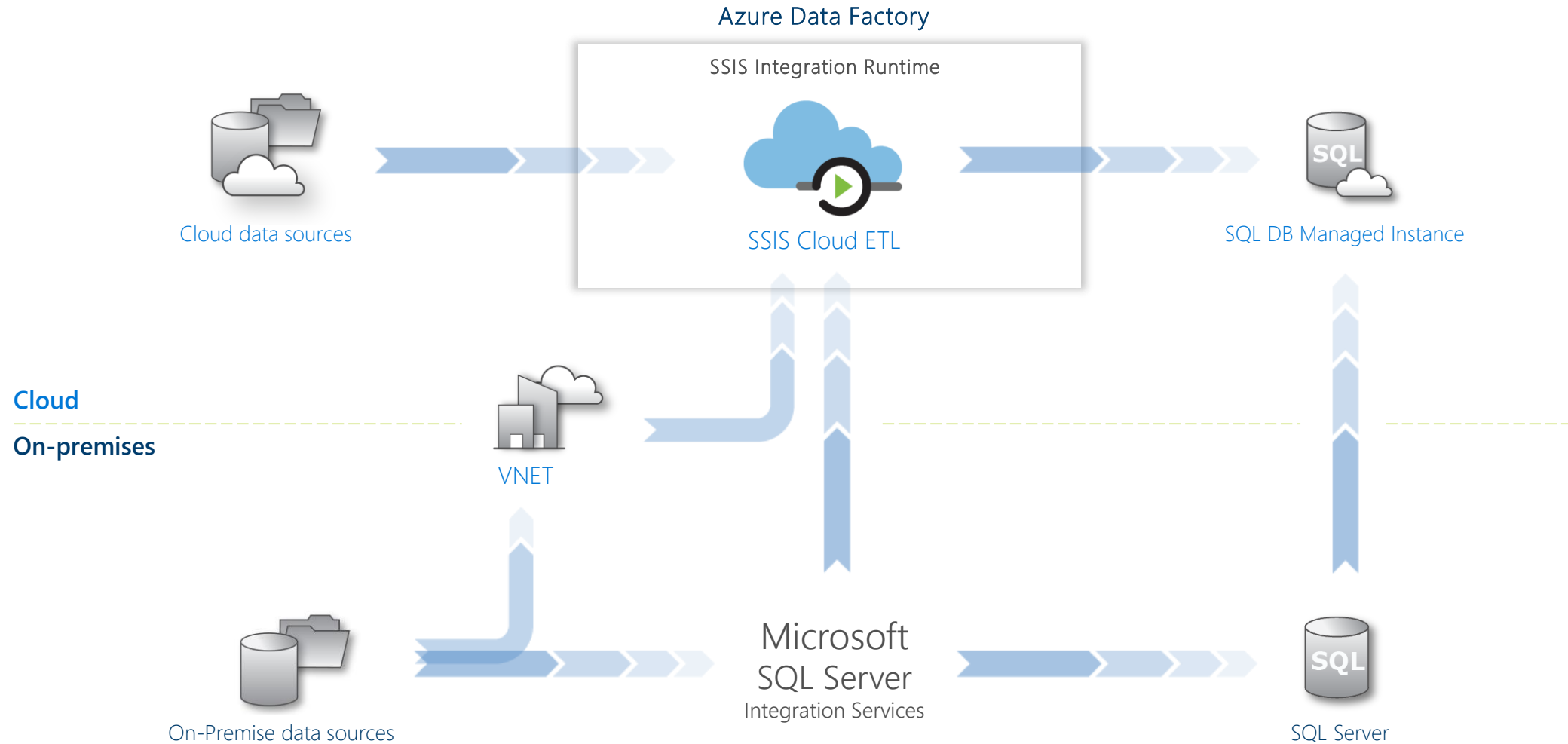
AZURE DATA FACTORY

Create intelligent data driven applications

Orchestrate with Azure Data Factory

On-premises data

Oracle, SQL, Teradata, fileshares, SAP

Cloud data

Azure, AWS, GCP

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SaaS data

Salesforce, Dynamics

DATA TIER

APPLICATION TIER

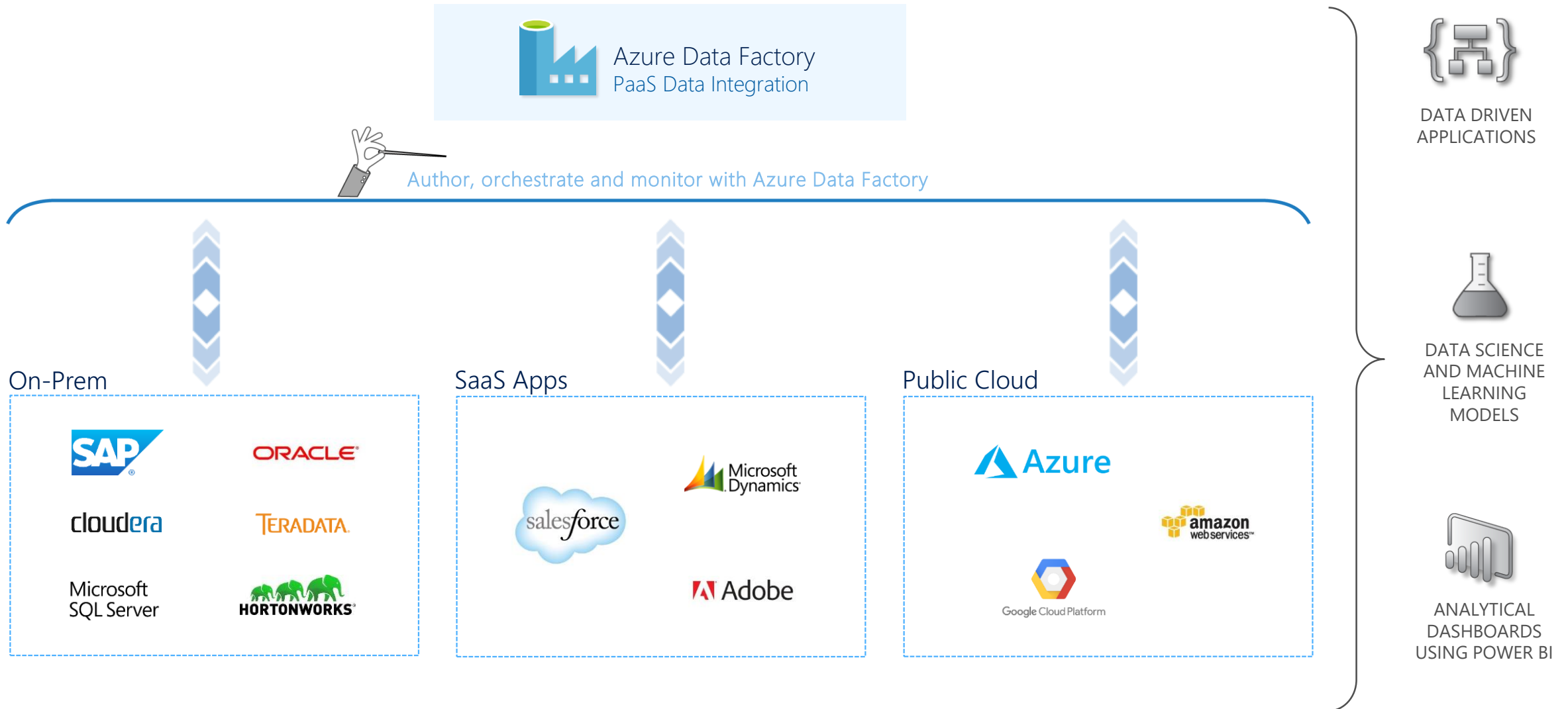| INGEST	STORE	PREP & TRAIN	MODEL & SERVE	
Azure Data Factory	Azure Blob Storage	Azure Databricks	Azure Cosmos DB	Application Logic

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AZURE DATA FACTORY

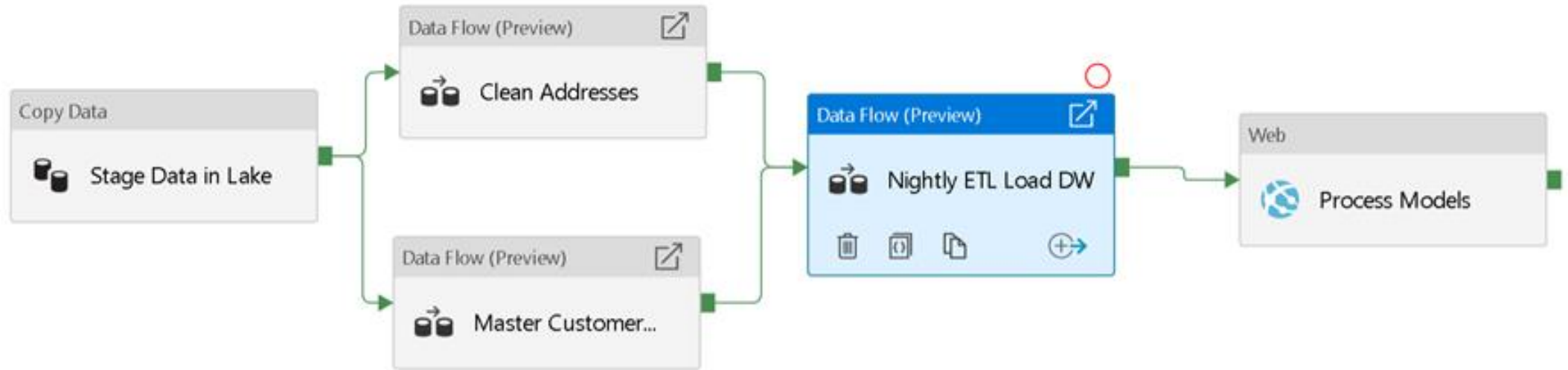## Lift your SQL Server Integration Services (SSIS) packages to Azure

Azure Data Factory

SSIS Integration Runtime

SSIS Cloud ETL

Cloud data sources

SQL DB Managed Instance

Cloud

On-premises

VNET

On-Premise data sources

Microsoft
SQL Server
Integration Services

SQL Server

Hybrid and Multi-Cloud Data Integration

Azure Data Factory
PaaS Data Integration

Author, orchestrate and monitor with Azure Data Factory

On-Prem

SAP
ORACLE®
cloudera
TERADATA.
Microsoft SQL Server
HORTONWORKS®

SaaS Apps

Microsoft Dynamics
salesforce
Adobe

Public Cloud

Azure
amazon webservices™
Google Cloud Platform

DATA DRIVEN APPLICATIONS

DATA SCIENCE AND MACHINE LEARNING MODELS

ANALYTICAL DASHBOARDS USING POWER BI

What's New in Azure Data Factory?

AZURE DATA FACTORY
Visual Data Transformation with Mapping Data Flow (in preview)

✓ Zero-code experience for data transformation

✓ Visually design, build, and manage transformation processes

✓ No understanding of Spark or distributed architecture needed

✓ Visual drag and drop interface

[Sign up for the preview of Mapping Data Flow >>>](#)

CUSTOMER EVIDENCE

Automatic Data warehouse generating firm cuts development time by a third

Challenge

Disparate data sources from hybrid and multi-cloud environments

As the customers varied in size, it was difficult to maintain scale without adding infrastructure

Maintenance of existing data warehouses increasingly required process updates to accommodate changes to data feeds

Solution

Build Software-as-a-service on Azure to automate data-driven workflows with SQL Server Integration Services in Azure Data Factory, creating an easy-to-use, cloud-based version of their data warehouse generator.

Customers can redeploy their existing SSIS packages from on premises environments to Azure with minimal modification in managed SSIS environment in Azure Data Factory.

Concentra®

Online retailer uses cloud database to deliver world-class shopping experiences

Challenge

Increasing amount of customer data in various forms and shapes and telemetry from disparate data sources

Building intelligent recommendations and monitoring and debugging transformations on big data compute was complex and time consuming.

Solution

With Azure Data Factory, ASOS can easily ingest data from disparate sources in a serverless manner and is now able to debug, monitor and manage the solutions from a single pane of glass.

ASOS easily integrated custom code to drive intelligent recommendation within the data factory pipeline.

asos
discover fashion online

Consumer goods firm empowers employees to work smarter using big data

Challenge

To make good decisions, salespeople, marketers, product developers, and executives all need data to understand what's going on with the business and the team realized that to gain those kinds of crystal-ball insights, RB needed more than just internal operational data, they needed third-party data.

Need to do a better job of helping employees make sense of proliferating data.

Solution

Use Microsoft Azure to build a modern data warehouse solution to replace AWS data warehouse and Hadoop components and save money in the process.

Bring together a variety of data from different sources using Azure Data Factory in Azure HDInsight and Azure SQL Data Warehouse and make it easily accessible in one view across the organization.

rb

HEALTH · HYGIENE · HOME

Improved Health Outcomes by integrating healthcare data

Challenge

Integration of Healthcare data from multiple hospitals and heterogenous sources

Transformation and orchestration of dataflow at scale

Increasing costs of scaling on-premise data pipelines

Solution

Built end-to-end data integration with Azure Data Factory, leveraging big data and compute offerings in Azure

Enabled data ingestion from hybrid sources of data

Orchestrated complex data workflows at scale

LUMEDX

Industrial automation firm cuts up to 90 percent of costs

Challenge

Manage data in excess of the existing data warehouse and systems capacity

Integrate data on-premises with cloud and batch processing with live streaming

Monitor a complex supply chain – undersea wells, refining facilities, gas stations

Solution

Integrated complex data systems with Azure Data Factory

Composed, orchestrated, and managed highly available data pipelines

Reduced up to 90 percent of costs

**Rockwell
Automation**

Actuarial firm unlocks the potential of human capital to drive business

Challenge

Increasing complexity of insurance products and regulations

Diversion from firm's core purpose

Rise in on-premises hardware investments to handle high-performance grid computing

Solution

Built software-as-a-service on Azure to address modeling and reporting of large, compute-intensive workloads and used Azure Data Factory to automate extract, transform, and load (ETL) processes

Gained real-time insight into financial data

Milliman   **INTEGRATE**

Get started with Azure Data Factory

https://azure.microsoft.com/en-us/services/data-factory/

View pricing

https://azure.microsoft.com/en-us/pricing/details/data-factory/

Hands-on-lab

https://aka.ms/adflab2