



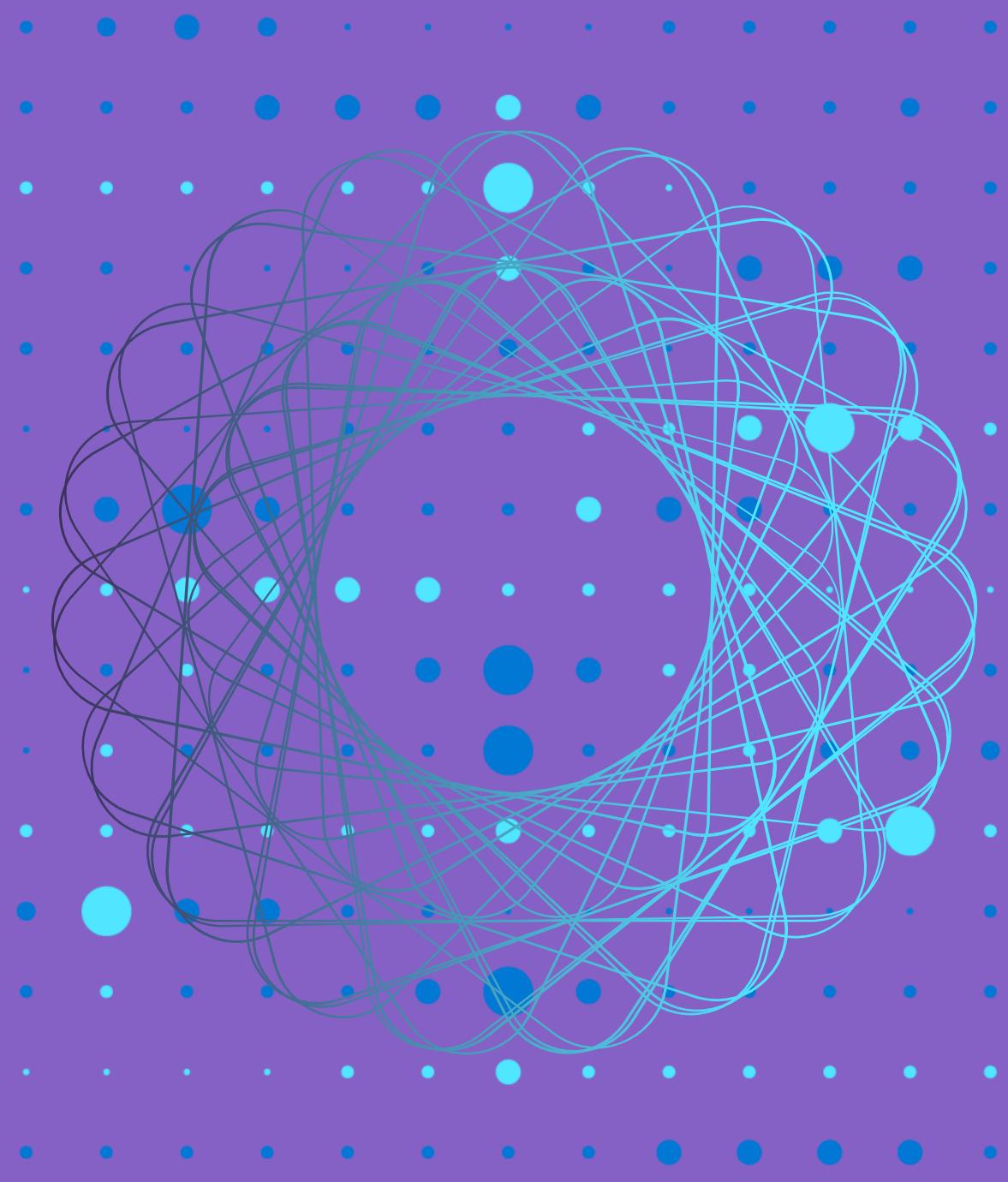
Frederic Gisbert
Cloud Solution Architect
Data & Analytics



Ali Bouhaddou
Cloud Solution Architect
Data & Analytics

Training session

DP900



DP-900 Partner Academy

Agenda

Describe analytics workloads

- describe transactional workloads
- describe the difference between a transactional and an analytics workload
- describe the difference between batch and real time
- describe data warehousing workloads
- determine when a data warehouse solution is needed

Describe the components of a modern data warehouse

- describe Azure data services for modern data warehousing such as Azure Data Lake Storage Gen2, Azure Synapse Analytics, Azure Databricks, and Azure HDInsight
- describe modern data warehousing architecture and workload

Describe data ingestion and processing on Azure

- describe common practices for data loading
- describe the components of Azure Data Factory (e.g., pipeline, activities, etc.)
- describe data processing options (e.g., Azure HDInsight, Azure Databricks, Azure Synapse Analytics, Azure Data Factory)

Describe data visualization in Microsoft Power BI

- describe the role of paginated reporting
- describe the role of interactive reports
- describe the role of dashboards
- describe the workflow in Power BI

Describe analytics workloads



describe transactional workloads



describe the difference between a
transactional and an analytics workload



describe the difference between batch and
real time

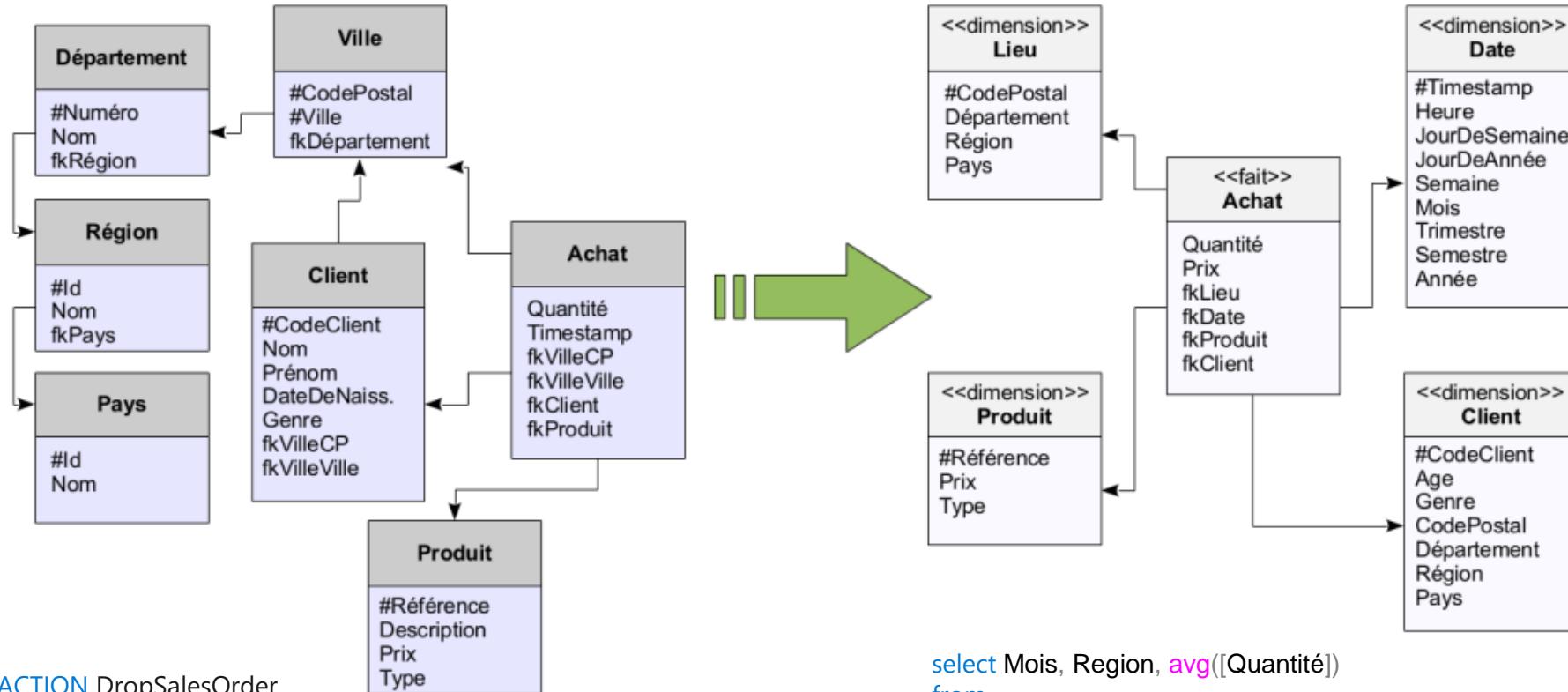


describe data warehousing workloads



determine when a data warehouse solution is
needed

Difference between Transactional & analytical models

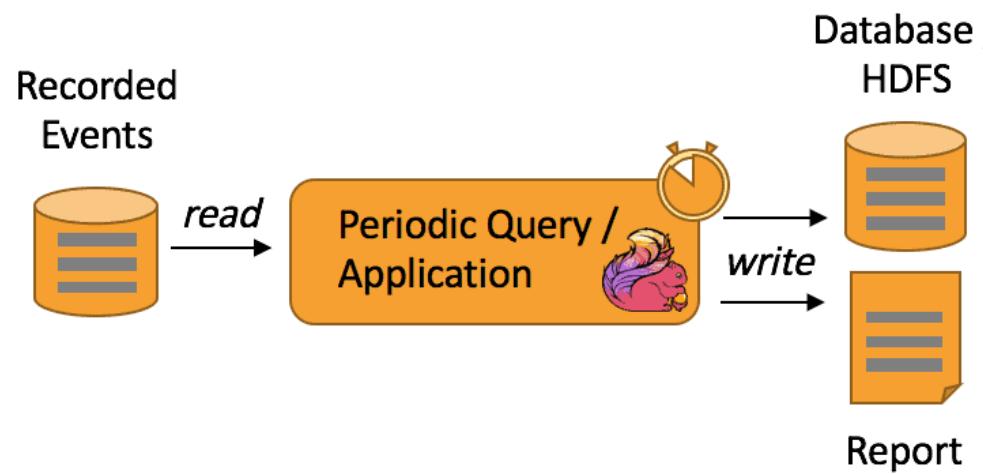


```
BEGIN TRANSACTION DropSalesOrder
    WITH MARK N'Deleting a sales Order';
GO
USE SalesDB;
GO
DELETE FROM SalesDB.OrdersSchema.SalesOrders
    WHERE ClientID = 13;
GO
COMMIT TRANSACTION DropSalesOrder;
GO
```

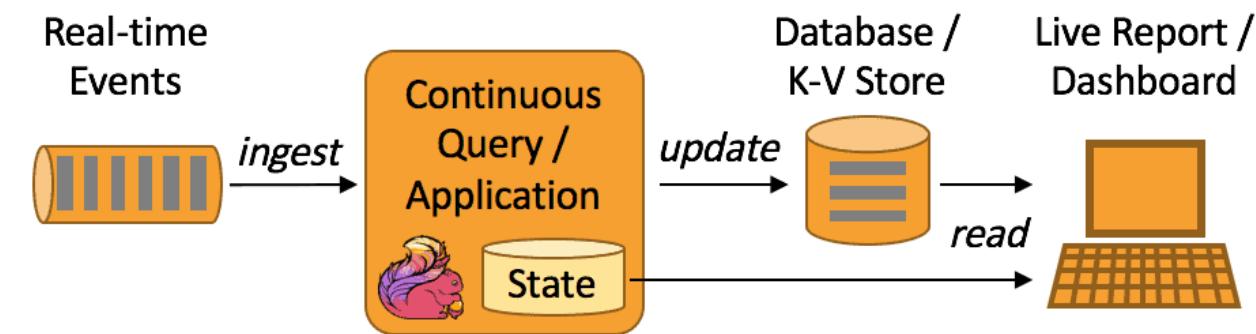
```
select Mois, Region, avg([Quantité])
from
(
    select
        Date.Mois, Achat.Quantité, Lieu.Region
    from Achat
    left join Date on Achat.Date = datedimension.Date
    left join Lieu on Achat.Lieu = Lieudimension.CodePostal
) for_daily_quantity_byregion
group by Mois, Region
order by Mois, Region
```

Difference between Batch & Realtime processing

Batch Processing

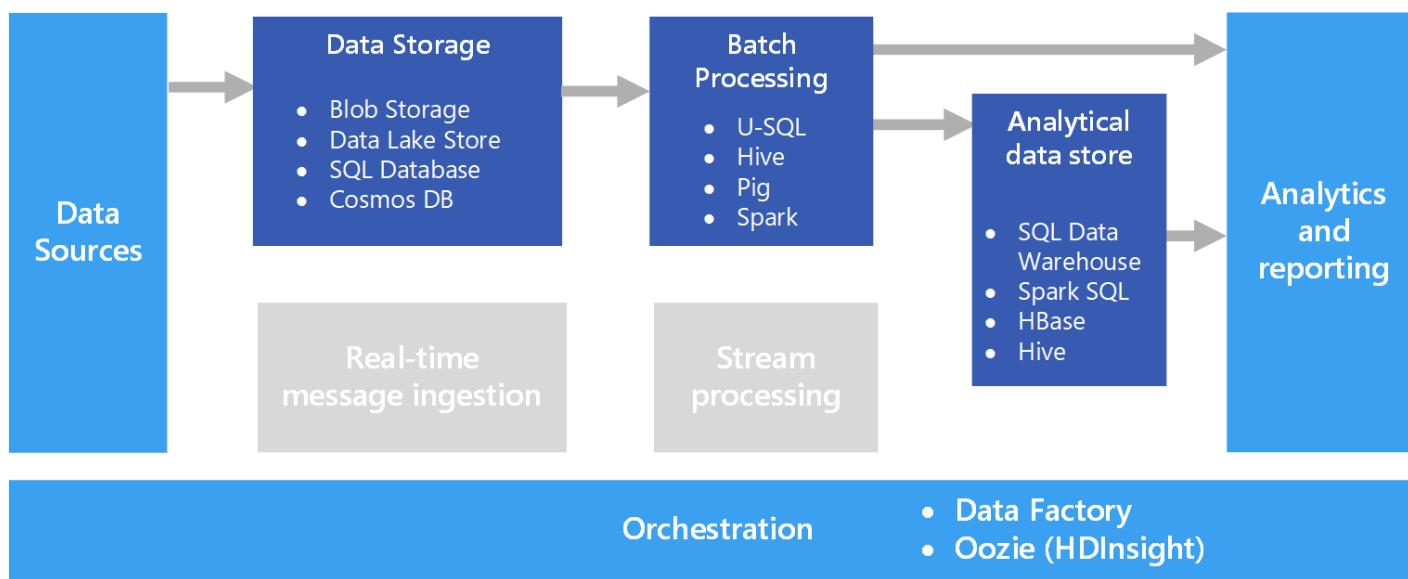


Stream Processing



Batch processing architecture

Batch processing is used in a variety of scenarios, from simple data transformations to a more complete ETL pipeline. In the context of big data, batch processing may operate over very large data sets, where the computation takes a significant amount of time.

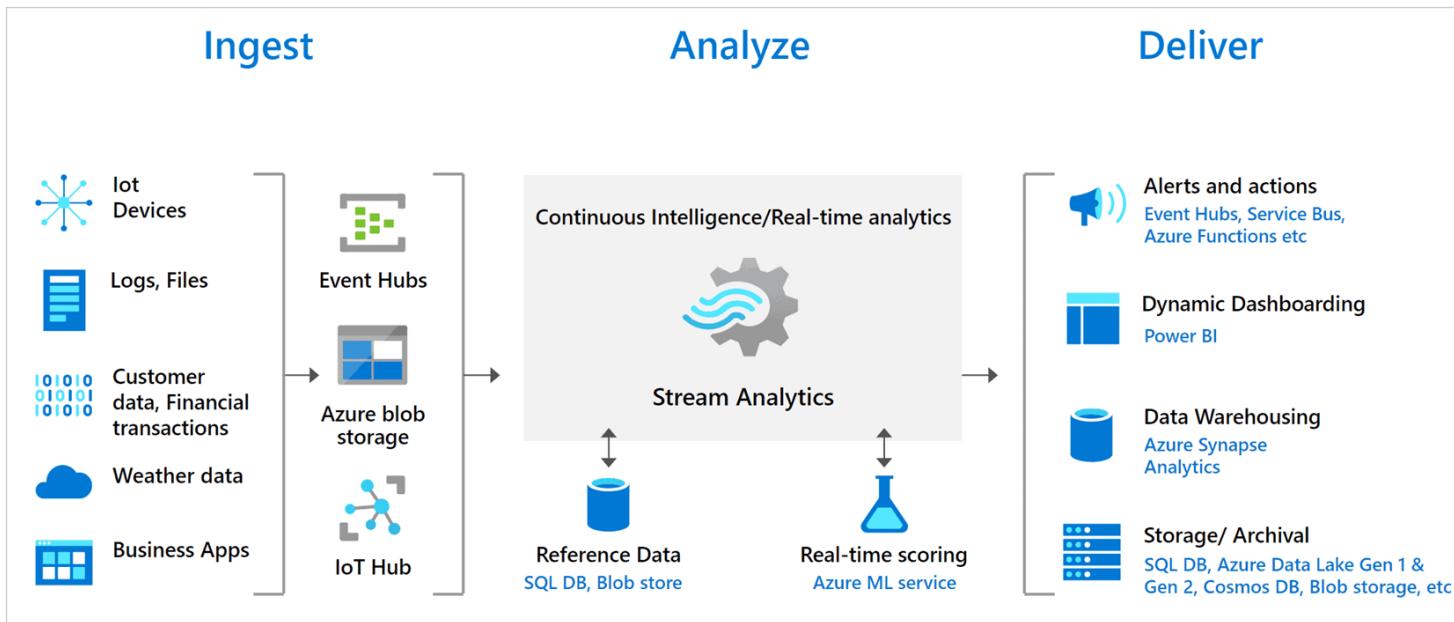


Technology Choices For Batch Processing:

- Azure Synapse Analytics:** It is an analytics service that binds enterprise data warehousing and Big Data analytics.
- Azure Data Factory:** It is a fully managed, serverless data integration service. Easily construct ETL and ELT processes code-free in an intuitive environment or write your own code.
- HDInsight:** It is an open-source analytics service in the cloud that consists of open-source frameworks such as Hadoop, Apache Spark, Apache Kafka, and more.
- Azure Databricks:** It allows us to integrate with open-source libraries and provides the latest version of Apache Spark.

Stream processing architecture

Stream processing is useful for tasks like fraud detection, social media sentiment analysis, log monitoring, analyzing customer behavior, and more.



Technology Choices For Stream Processing:

1. Azure Stream Analytics: It is real-time analytics and event-processing engine designed to analyze and process high volumes of fast streaming data from multiple sources.

2. HDInsight with Storm: Apache Storm is a distributed, fault-tolerant, and open-source computation system which is used to process streams of data in real-time with Apache Hadoop.

3. Apache Spark in Azure Databricks

4. Azure Kafka Stream APIs

5. HDInsight with Spark Streaming: Apache Spark Streaming provides data stream processing on HDInsight Spark clusters.

Describe the components of a modern data warehouse

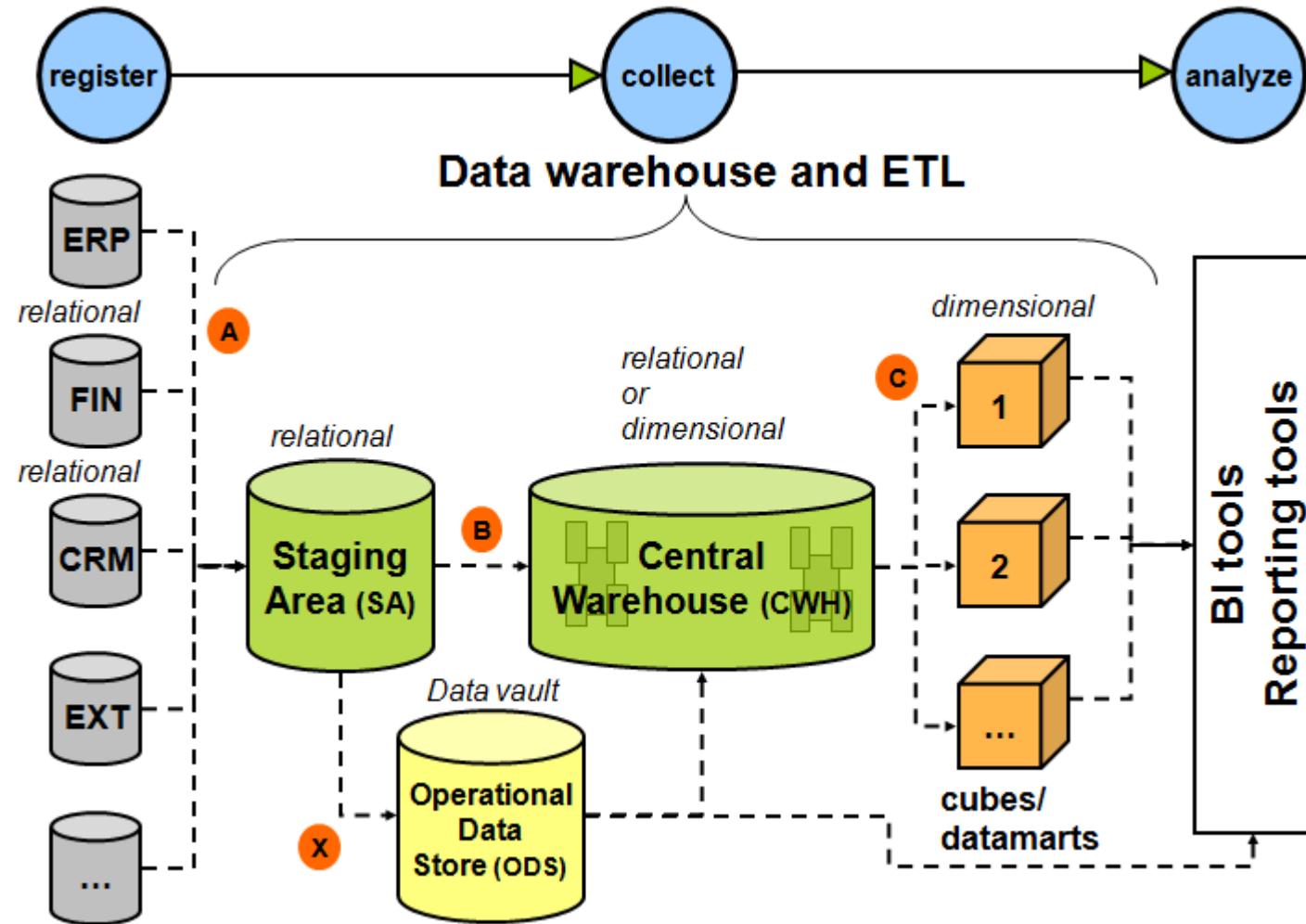


Describe modern data warehousing architecture and workload

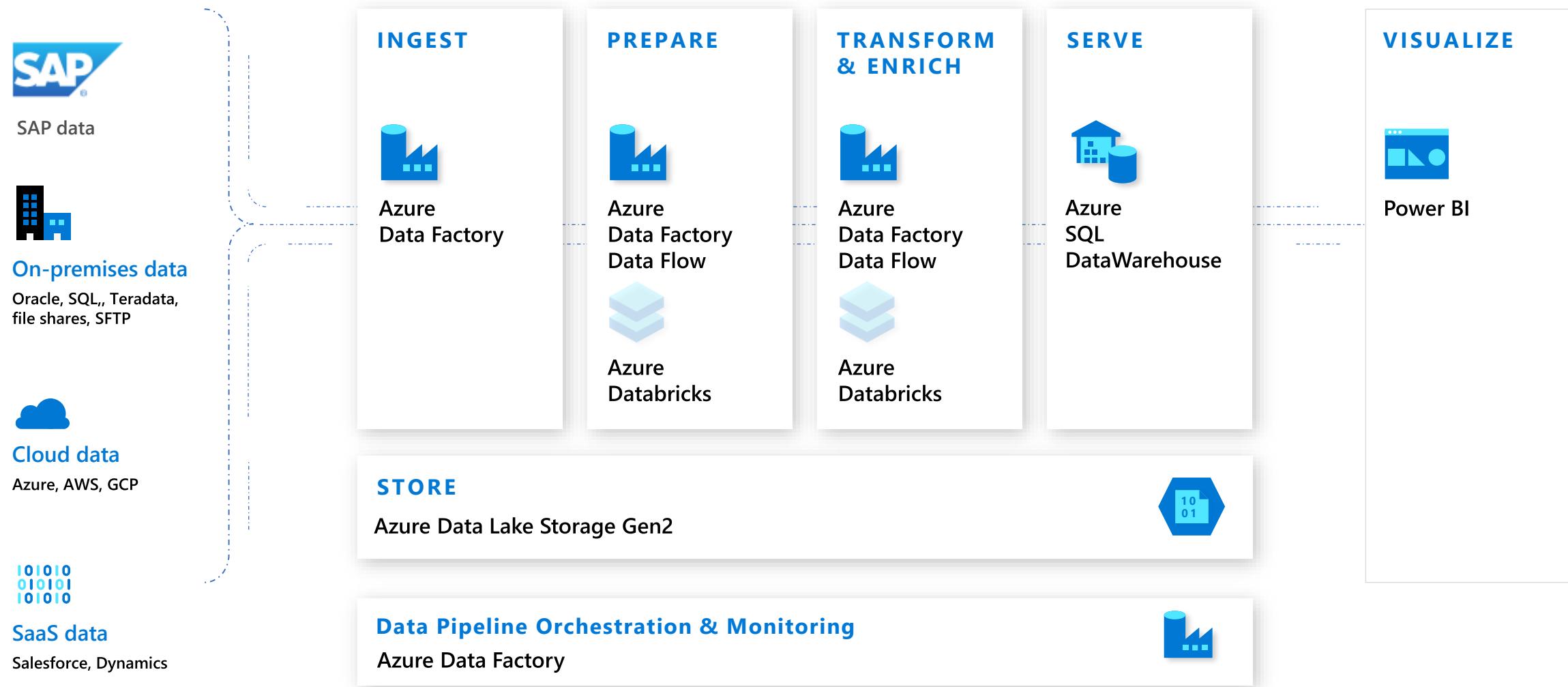


Describe Azure data services for modern data warehousing such as Azure Data Lake Storage Gen2, Azure Synapse Analytics, Azure Databricks, and Azure HDInsight

Traditional DWH stages



Modern Data Warehouse



Describe Azure data services for modern data warehousing



Azure Data Lake Storage Gen2

Azure DataFactory



Azure Synapse Analytics

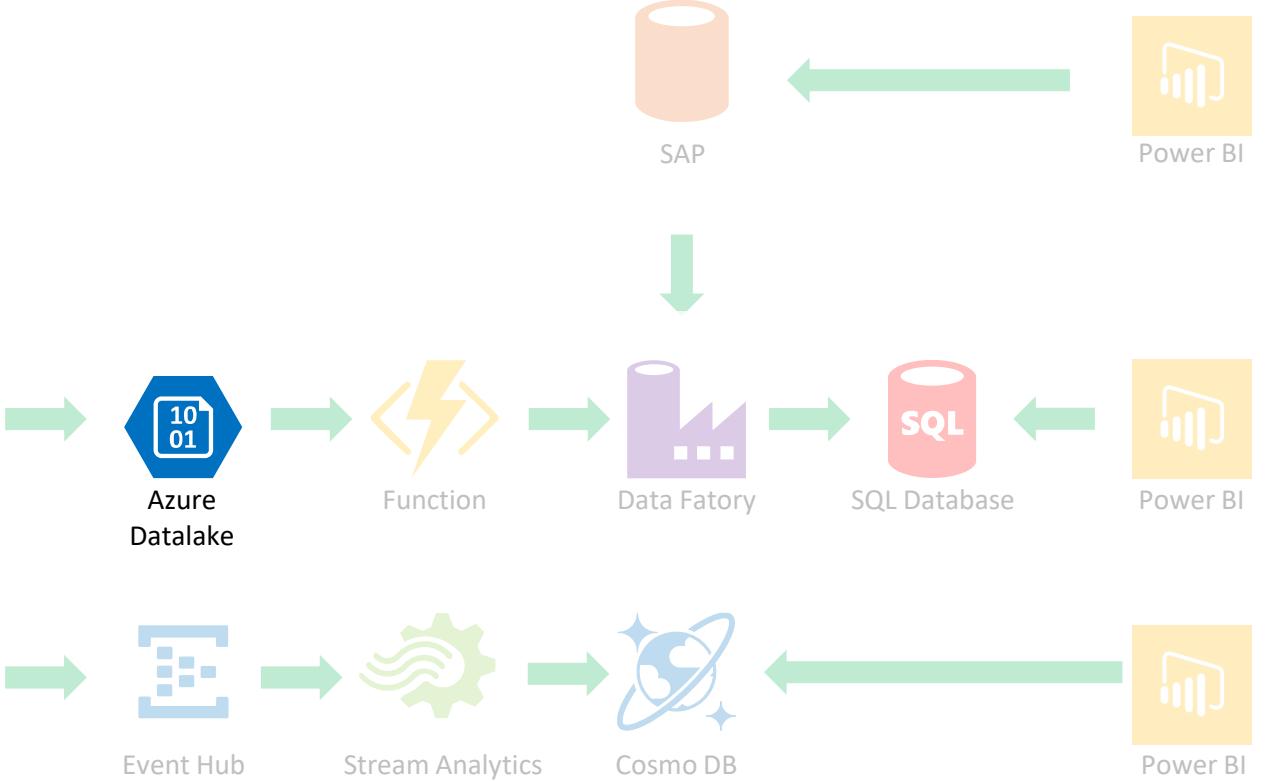


Azure Databricks



Azure HDInsight

Du Transactionnel à l'analyse des données



Storage for big data scenarios



Blob API

Object store

Emulate hierarchical store



Table API

Key/value store



Queue

Pub/Sub



File Storage

Pub/Sub

High throughput

Elastic scale-out

Local redundancy



Datalake store Gen2

Hierarchical storage – web HDFS



Azure Managed Disk

SSD

Geo replication

Data reuse & sharing
Across applications



Azure SQLDB

Horizontal & vertical
sharding cross databases



Azure SQL

Datawarehouse

Sharding over #nodes



Azure CosmosDB

object store

Separation of compute
And storage layers

Security

Azure storage account General Performance

500 TiB	Max storage account capacity ¹	200	Number of storage accounts per region per subscription, including both standard and premium accounts	No limit	Max number of blob containers, blobs, file shares, tables, queues, entities, or messages per storage account	20,000 query/second	Maximum request rate ¹ per storage account
---------	---	-----	--	----------	--	---------------------	---

10 Gbps if RA-GRS/GRS enabled, 15 Gbps for LRS/ZRS	Max egress ¹ per storage account (Non-US regions)	5 Gbps if RA-GRS/GRS enabled, 10 Gbps for LRS/ZRS ²	Max ingress ¹ per storage account (Non-US regions)
20 Gbps if RA-GRS/GRS enabled 30 Gbps for LRS/ZRS	Max egress ¹ per storage account (US Regions)	10 Gbps if RA-GRS/GRS enabled 20 Gbps for LRS/ZRS ²	Max ingress ¹ per storage account (US Regions)

Azure storage account Datalake Gen2



SECURE

- ✓ Support for fine-grained ACLs, protecting data at the file and folder level
- ✓ Multi-layered protection via at-rest Storage Service encryption and Azure Active Directory integration



MANAGEABLE

- ✓ Automated Lifecycle Policy Management
- ✓ Object Level tiering



FAST

- ✓ Atomic file operations means jobs complete faster
- ✓ High throughput



SCALABLE

- ✓ No limits on data store size
- ✓ Global footprint (50 regions)



COST EFFECTIVE

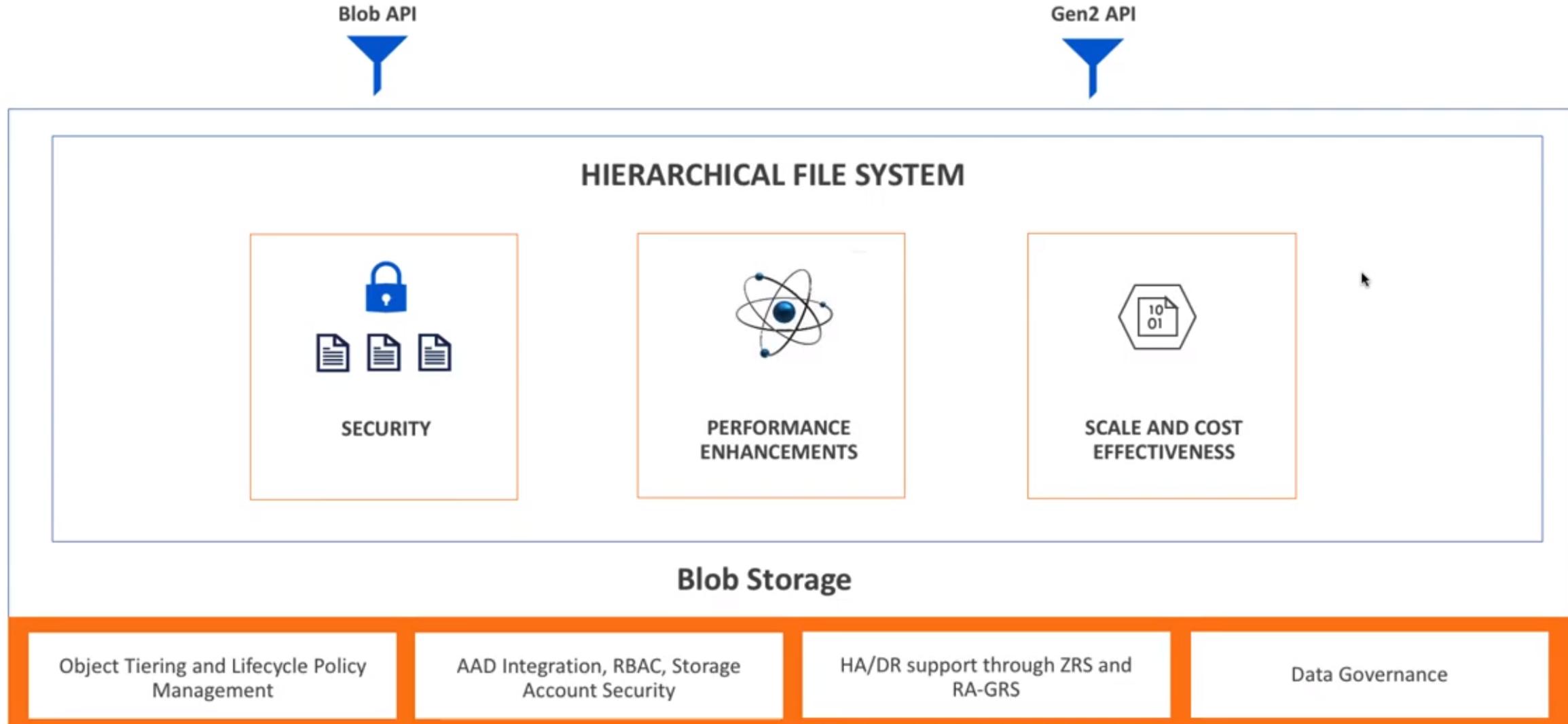
- ✓ Object store pricing levels
- ✓ File system operations minimize transactions required for job completion



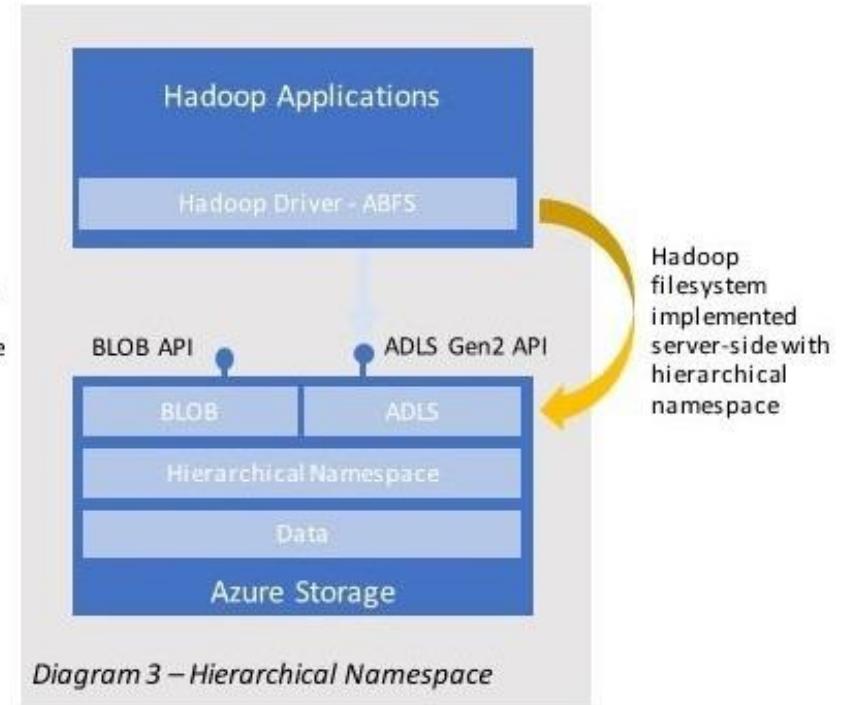
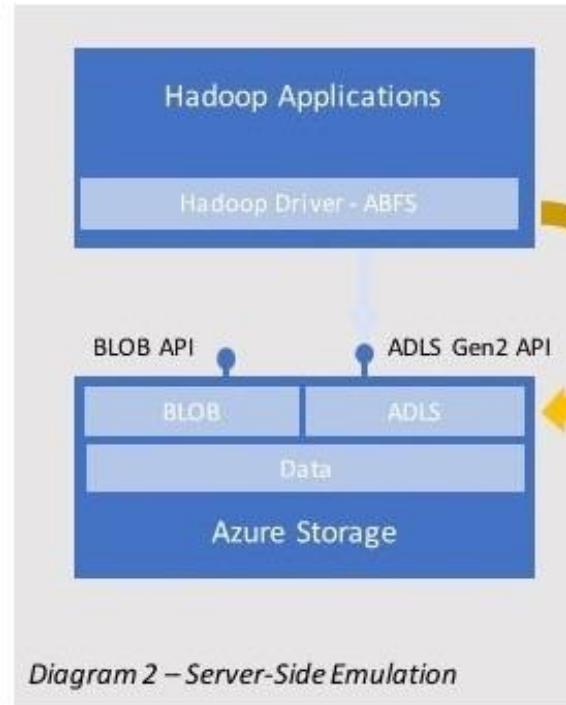
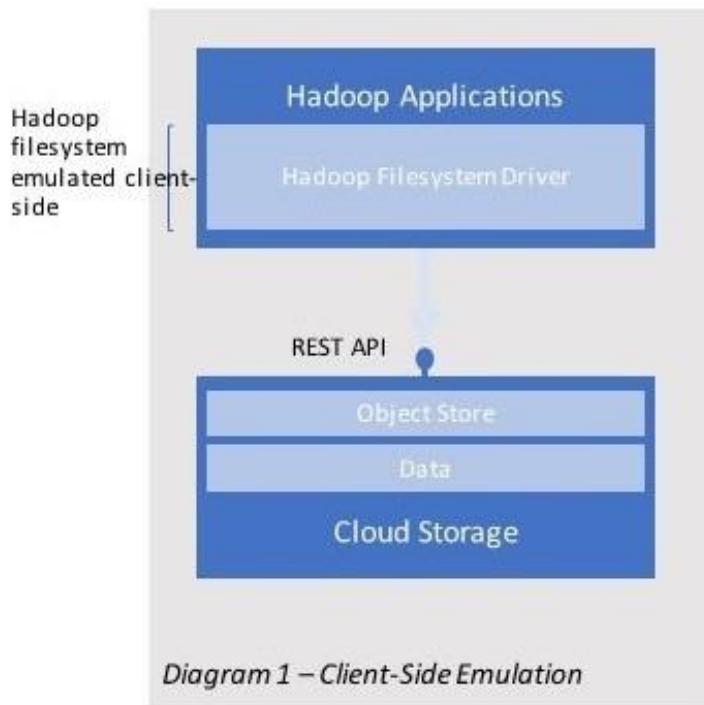
INTEGRATION READY

- ✓ Optimized for Spark and Hadoop Analytic Engines
- ✓ Tightly integrated with Azure end to end analytics solutions

Azure storage account Datalake Gen2

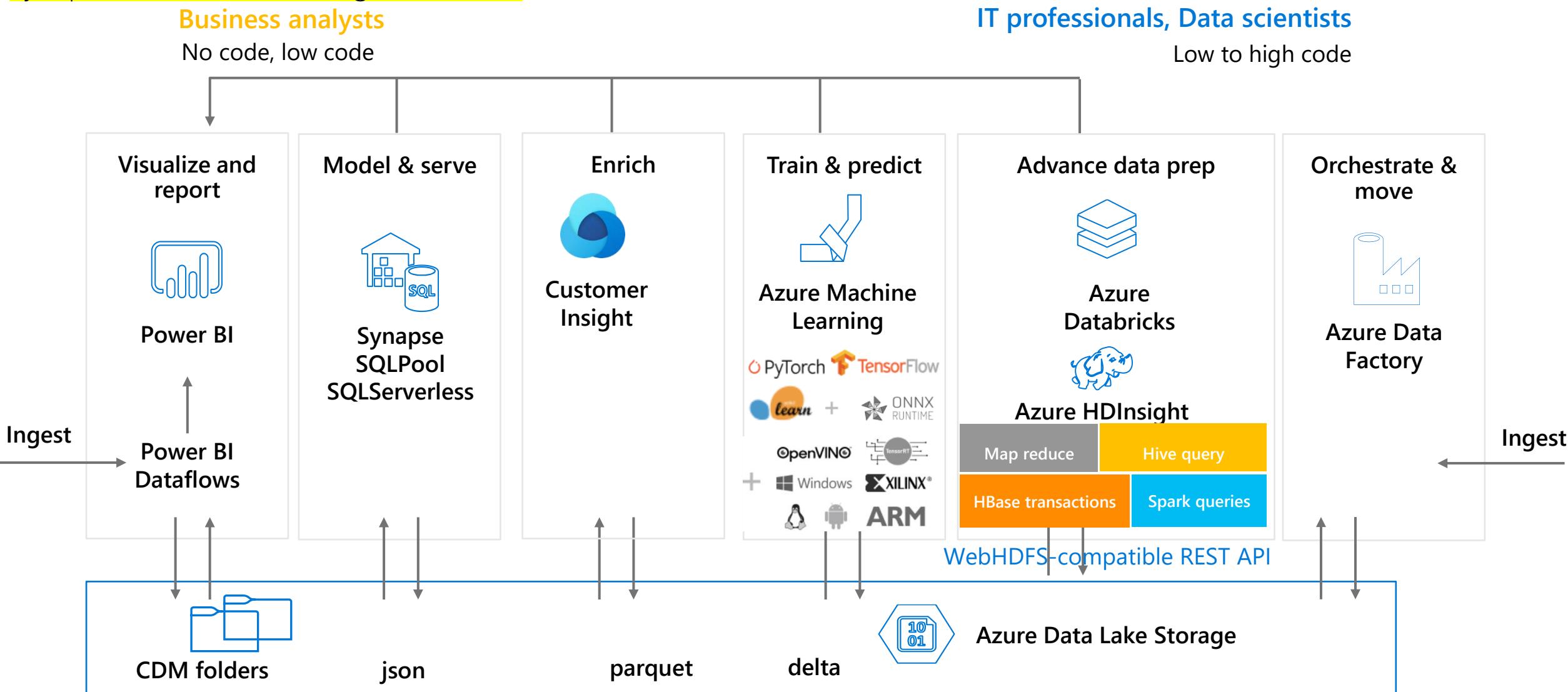


Azure Datalake Gen2 Hierarchical namespace



Azure Datalake Gen2 Benefits

With a WebHDFS endpoint Azure Data Lake is a Hadoop-compatible file system that integrates seamlessly with Azure Synapse, Databricks, HDInsight, AzureML



Describe Azure data services for modern data warehousing



Azure Data Lake Storage Gen2



Azure DataFactory



Azure Synapse Analytics



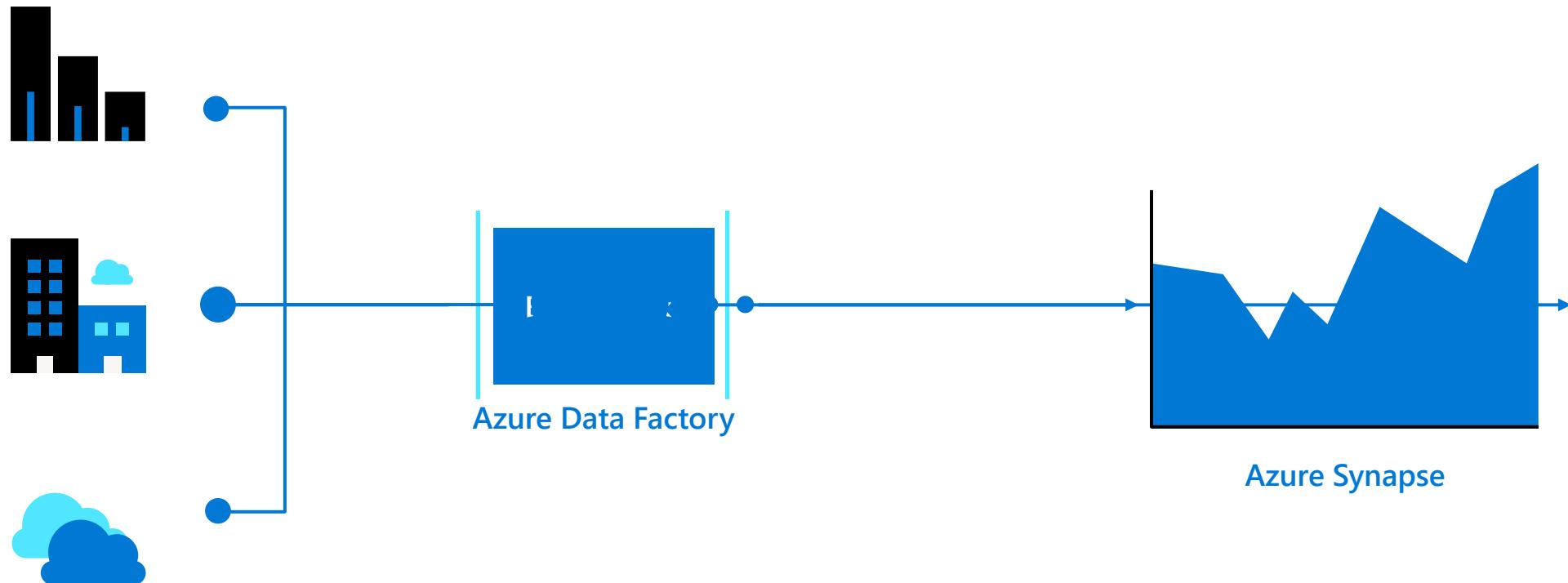
Azure Databricks



Azure HDInsight

Introducing Azure Data Factory

Accelerate data integration and simplify ETL at scale



Azure Data Factory

Hybrid data integration, simplified



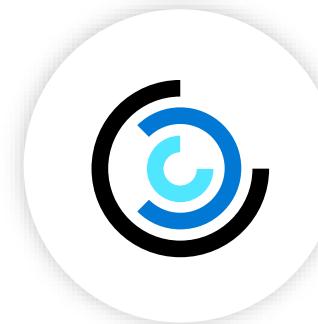
Easy-to-use

- Code-free ETL/ELT
- Rehost SSIS in a few clicks
- Built-in Git & CI/CD



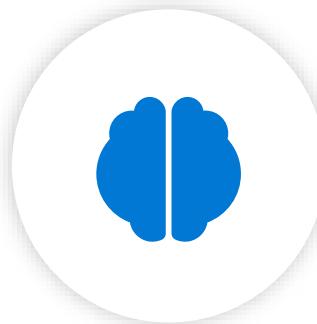
Cost-effective

- Pay-as-you-go
- Fully managed, serverless
- Scales on demand



Powerful

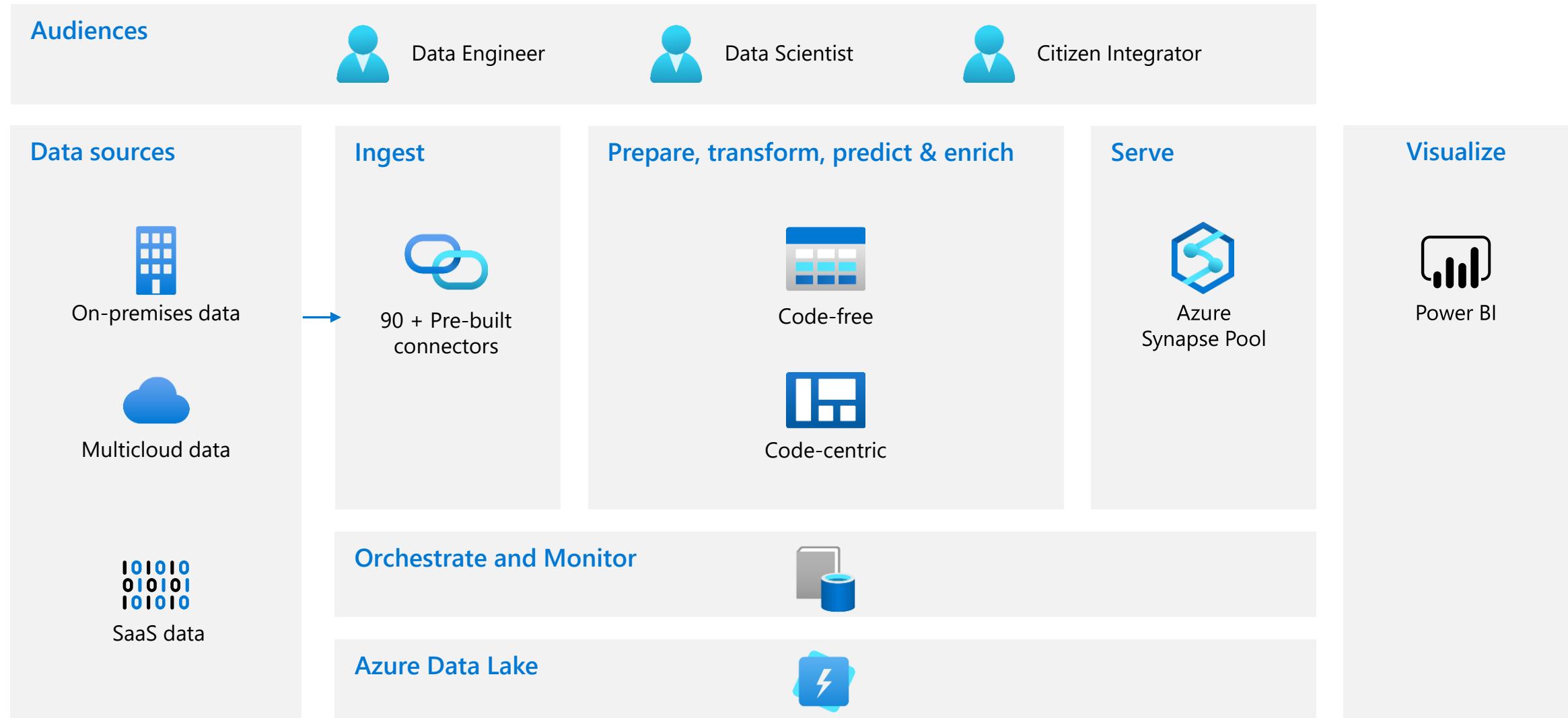
- 90+ built-in connectors
- Orchestrate and monitor at scale



Intelligent

- Autonomous ETL
- AI based intent-driven copy
- Predictive pipelines

Azure Data Factory overview



Data Factory customer scenarios

A photograph of a woman with long dark hair, wearing a light-colored sweater over a blue collared shirt, looking thoughtfully at a computer monitor. She is positioned on the left side of the slide. In the background, there are large windows with white horizontal blinds, and a desk with multiple computer monitors on the right.

1

I want to unlock insights from all my data with analytics

2

I want to migrate SSIS to the cloud to realize cost savings

3

I want to build SaaS apps with optimal time to market

Data Factory customer scenarios

A photograph of a woman with long dark hair, wearing a light-colored sweater over a collared shirt, looking thoughtfully at a computer monitor. She is positioned on the left side of the slide. In the background, there are large windows with white horizontal blinds, and another computer monitor is visible on the right.

1

I want to unlock insights from all my data with analytics

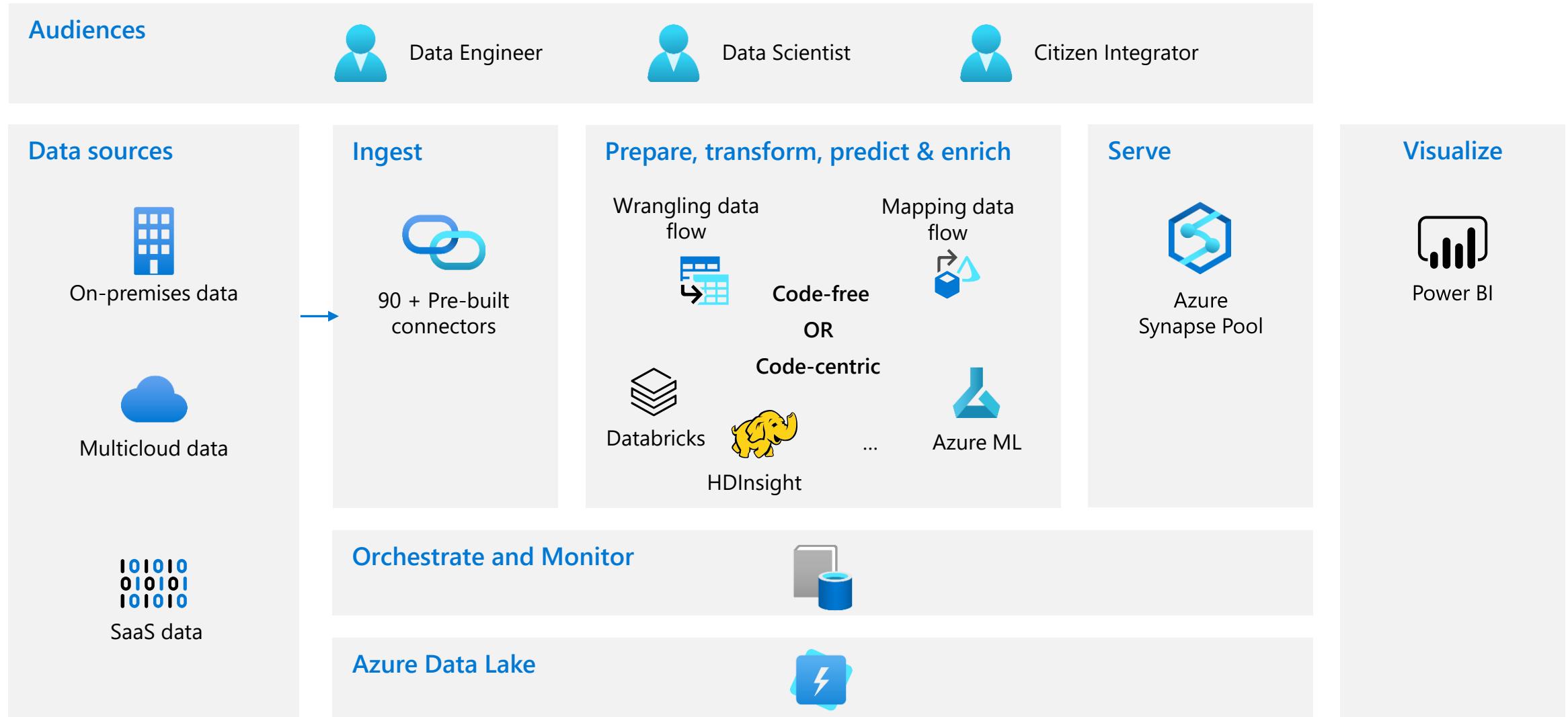
2

I want to migrate SSIS to the cloud to realize cost savings

3

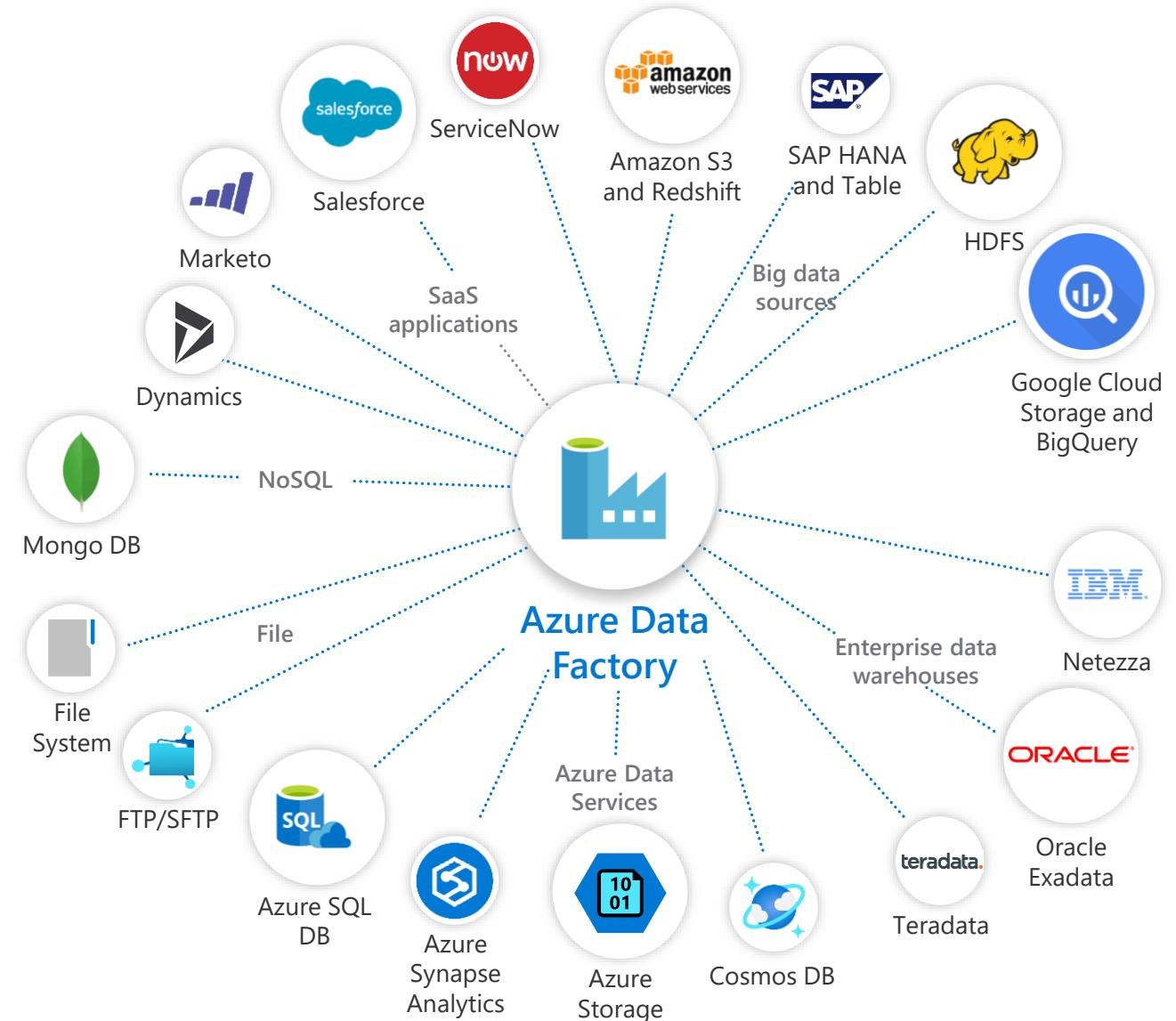
I want to build SaaS apps with optimal time to market

Get the most out of your analytics



Ingest all your data with 90+ built-in connectors

- 90+ built-in connectors to ingest.
 - Big Data - Amazon Redshift, Google Big Query, HDFS
 - EDW - Oracle Exadata, Teradata
 - SaaS apps - Salesforce, Marketo, ServiceNow
 - All Azure Data Services
- Leverage up to **5 GB/sec** network bandwidth
- **Unified** data integration solution to power up operational databases, machine learning, BI/Analytics and app modernization



Prepare with Wrangling Data Flows

- Perform code-free, agile data preparation at scale via Spark execution
- Get started easily with familiar Microsoft Excel like UI
- Choose from a variety of wrangling functions like combining tables, adding columns, and reducing rows
- Create, debug, schedule, and monitor the wrangling data flow in a one-stop-shop

The screenshot shows the Azure Data Factory Wrangling Data Flow interface. On the left is a table view with columns: LastName, City, ZIP, Email, State, and BasePay. The table contains 25 rows of Harry Potter character data. On the right, the 'Applied steps' pane is visible, listing the following steps:

- Source
- Renamed columns
- Merged queries
- Renamed CustomerID
- Removed columns (highlighted in blue)

LastName	City	ZIP	Email	State	BasePay
Potter	Bellevue	98004	harryk@fabrikam.com	WA	90000
Potter	Bellevue	98004	harryk@fabrikam.com	WA	90000
Granger	Wilmington	19801	hermione@fabrikam.com	DE	100000
Granger	Wilmington	19801	gamalfoyl@fabrikam.com	DE	100000
Voldemort	Billings	59115	lordc@fabrikam.com	MT	110000
Dumbledore	Newyork	12345	albusd@fabrikam.com	NY	120000
Snape	Columbus	56789	severus@fabrikam.com	OH	130000
Malfoy	Houston	91019	dracoh@fabrikam.com	TX	140000
Elf	Salt Lake Ci...	11128	dobbyz@fabrikam.com	UT	150000
Weasley	Las Vegas	51527	ronag@fabrikam.com	NV	160000
Black	Providence	61623	hcblack@fabrikam.com	RI	170000
Lovegood	Kansas City	68692	lunal@fabrikam.com	MO	180000
Hagrid	Boston	98052	gamalfoyl@fabrikam.com	Malfoy	190000
Lestrange	Los Angeles	78965	mlestrange@fabrikam.com	CA	200000
Weasley	Redmond	98052	ginnyw@fabrikam.com	WA	210000
Longbottom	Bothell	98053	nevillea@fabrikam.com	WA	220000
Moody	Renton	98054	albusd@fabrikam.com	WA	230000
Malfoy	Bellevue	98004	luciusmalfoy@fabrikam.co...	WA	240000
Diggory	Seattle	98989	cedricp@fabrikam.com	WA	250000
Flitwick	Cambridge	144129	eremusw@fabrikam.com	UK	260000

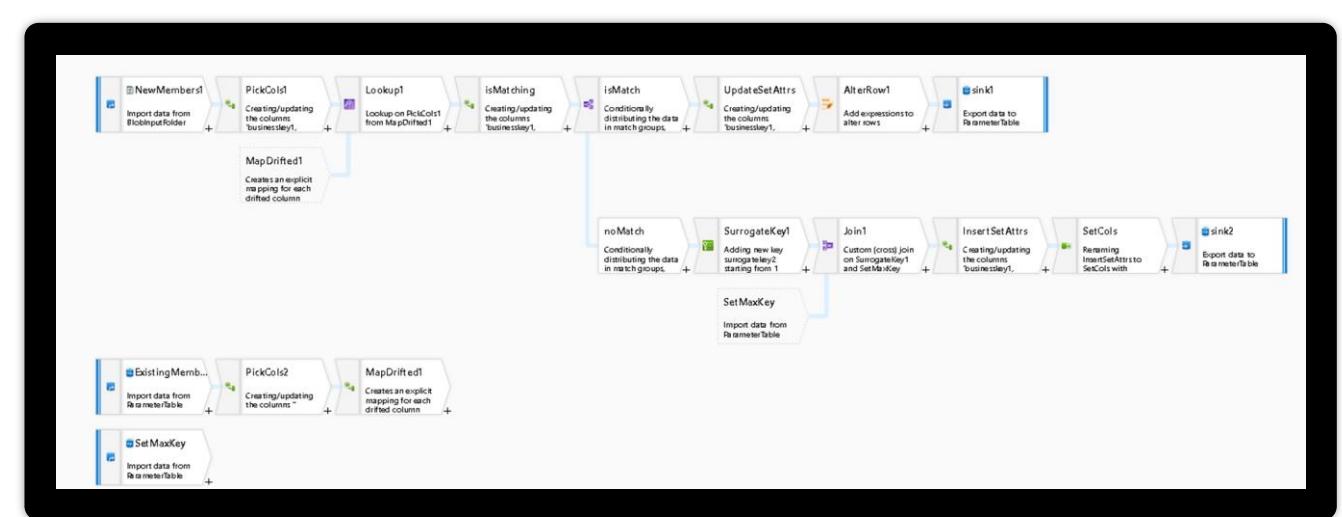
Transform code-free and/or code-centric, you choose

Code-free transformation at scale with Mapping Data Flow

Construct and perform ETL and ELT processes in an intuitive environment

Spend less time on design, testing, and maintenance, while focusing on business logic

- Data cleansing, transformation, aggregation, and conversion
- Cloud scale via Spark execution
- Resilient, easily built data flows



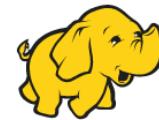
Transform code-free and/or code-centric, you choose

Fully contained operationalization for code-centric computing

ADF comes with completely integrated external compute engines



Azure Databricks
Notebook, Jar, Python



Azure HDInsight
Hive, Pig, Spark, MapReduce,
Streaming



**Synapse SQL Pool,
Azure SQL DB & SQL Server**
Stored Procedure



Machine Learning
Batch Execution, Update Resource



Azure Functions
Function calls

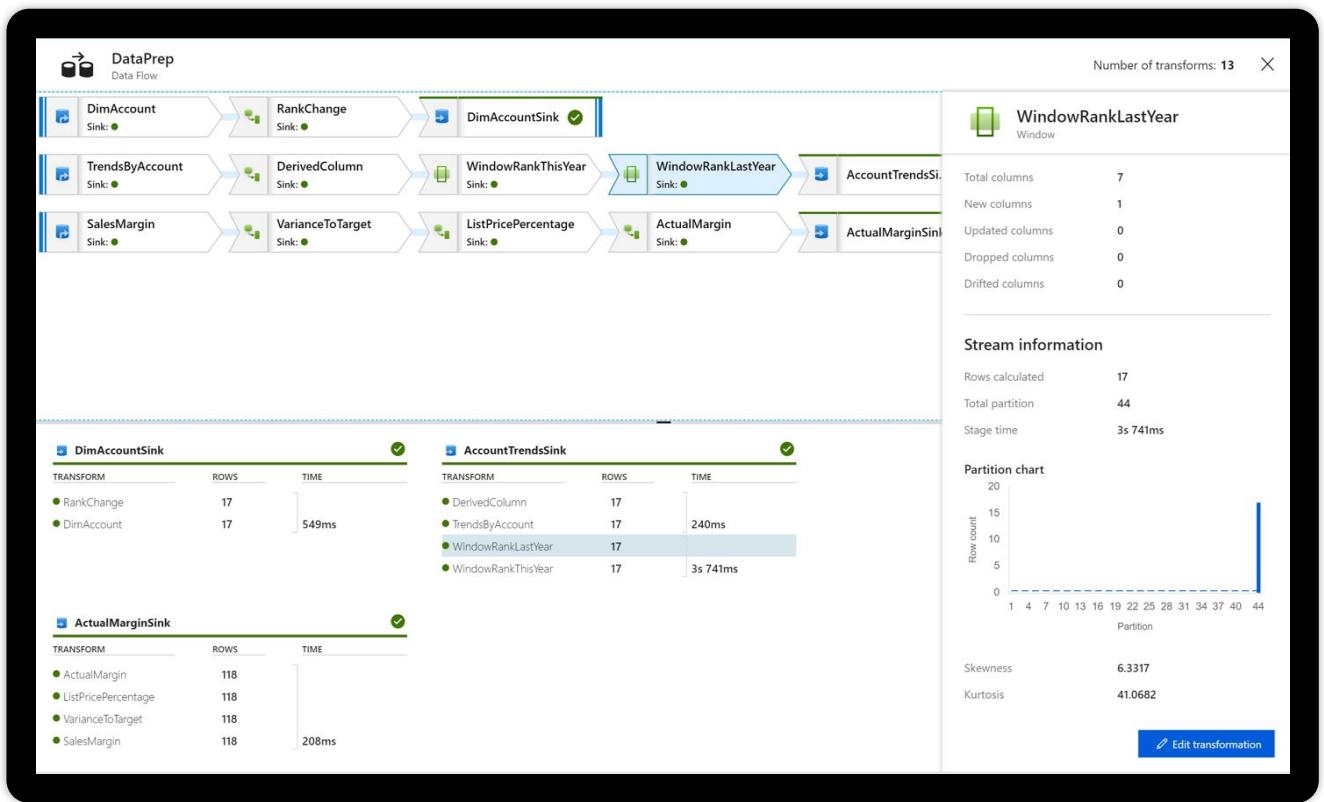


Azure Batch
Custom Executable

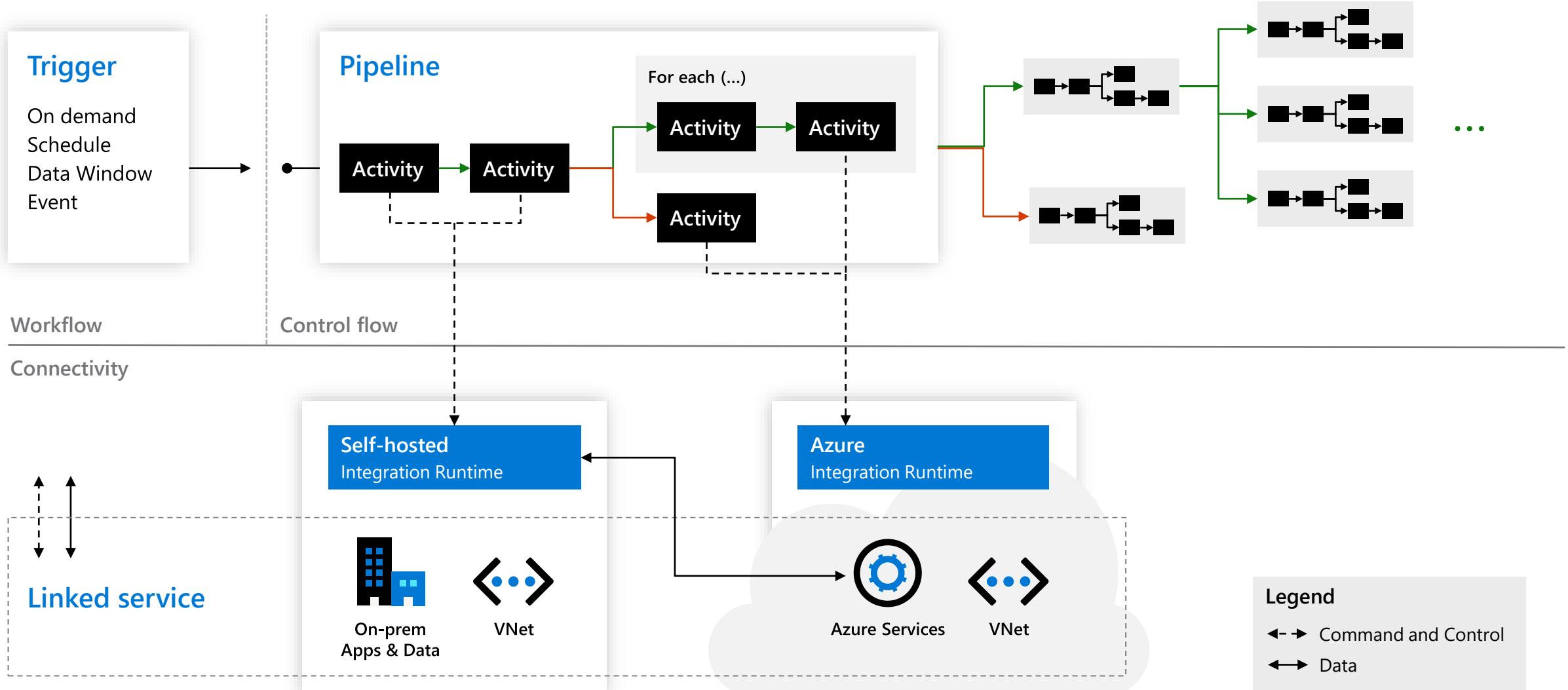
Monitor: Best-in-class management

Lower your cost of deployment, testing, and maintenance by monitoring pipeline and activity runs with pre-built templates and UI-based views

- Query Runs with rich language
- Reference operational lineage between parent-child pipelines
- Integrate Azure Monitor for diagnostics loggings, metrics and alerts, and events.
- Restate pipeline and activities



Orchestrate at scale



Describe Azure data services for modern data warehousing



Azure Data Lake Storage Gen2



Azure Synapse Analytics

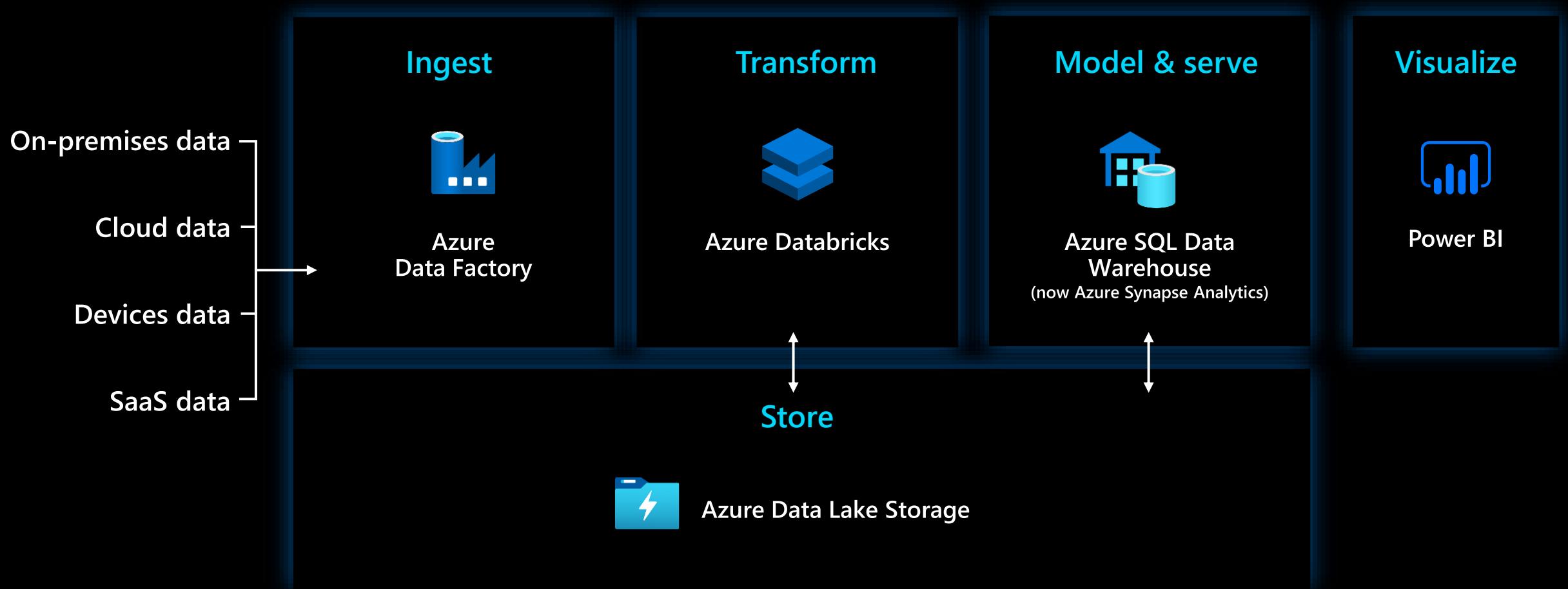


Azure Databricks

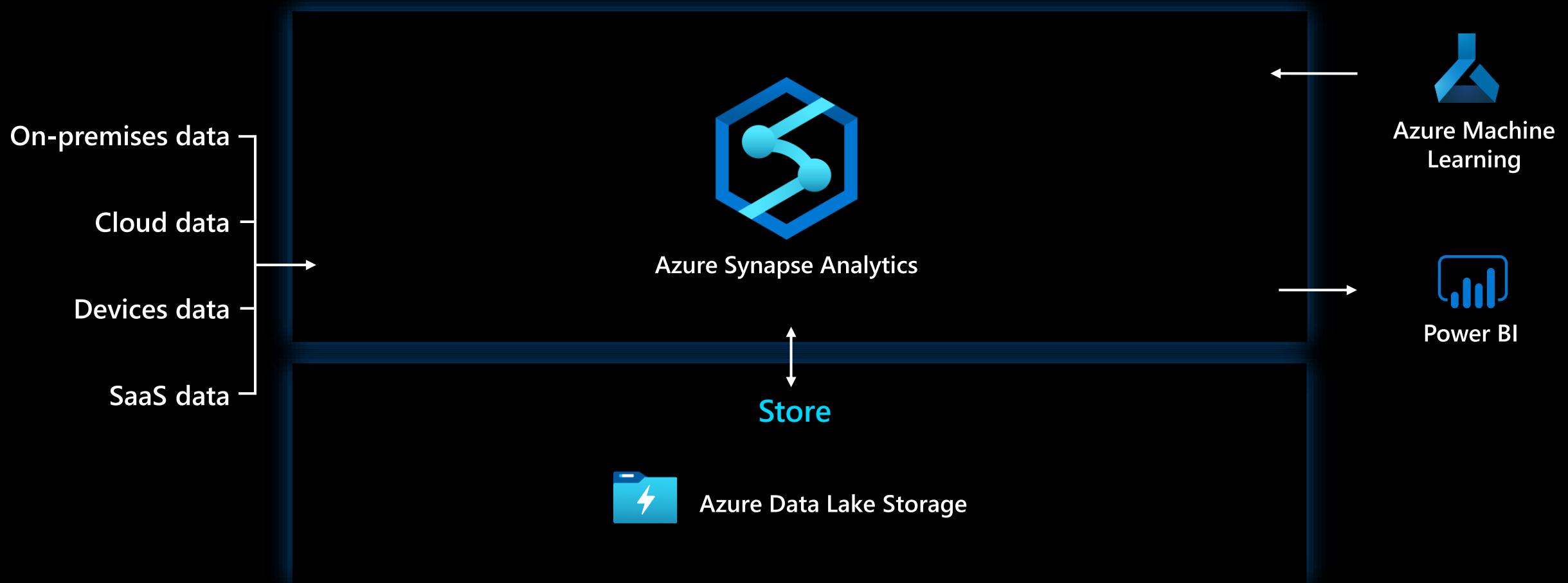


Azure HDInsight

Modern Data Warehouse



Azure Synapse Analytics



Azure Synapse Analytics



Synapse SQL



Apache Spark
for Synapse



Synapse Pipelines



Synapse Studio

Azure Synapse Analytics



Synapse SQL

Query and analyze data with T-SQL using both provisioned and serverless models



Apache Spark for Synapse

Quickly create notebooks with your choice of Python, Scala, SparkSQL, and .NET for Apache Spark



Synapse Pipelines

Build end-to-end workflows for your data movement and data processing scenarios

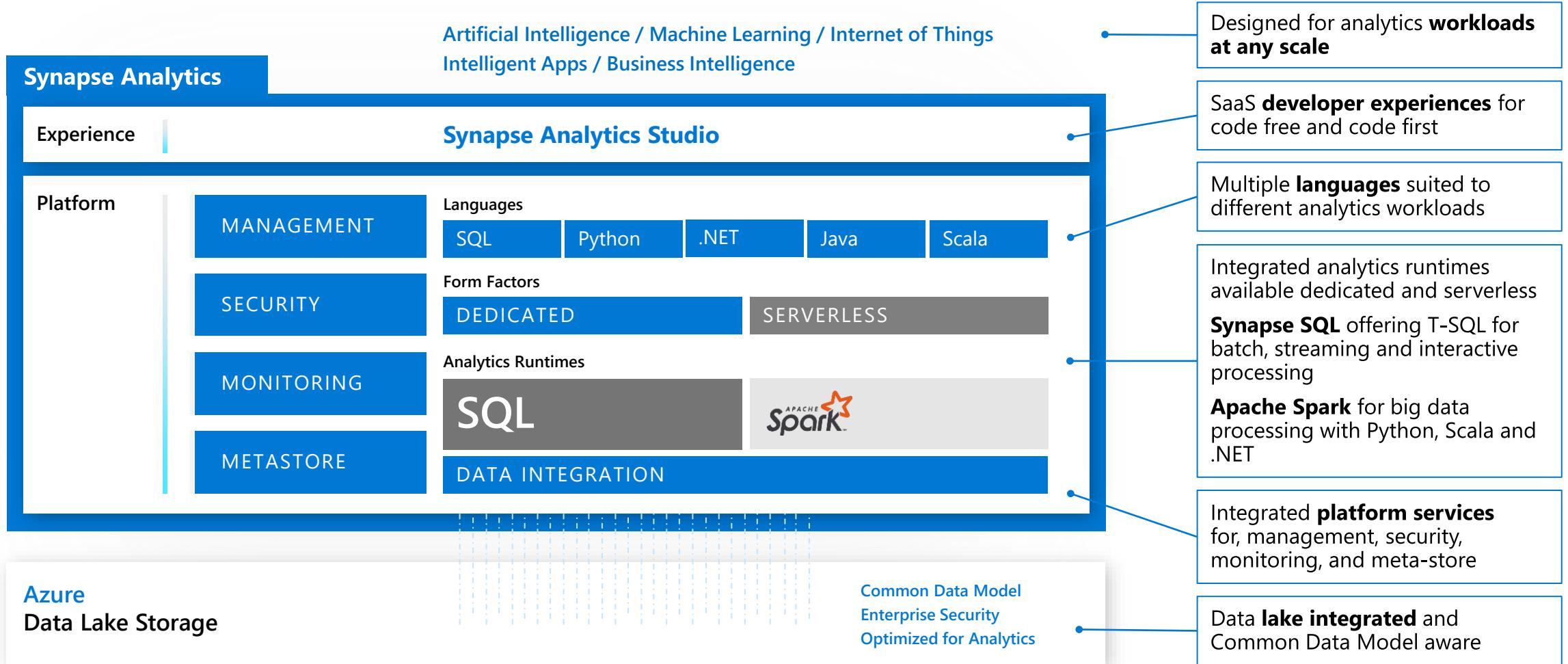


Synapse Studio

Execute all data tasks with a simple UI and unified environment

Azure Synapse Analytics

Limitless analytics service with unmatched time to insight



Describe Azure data services for modern data warehousing



Azure Data Lake Storage Gen2



Azure Synapse Analytics



Azure Databricks



Azure HDInsight



Optimized spark engine

Simple data processing on autoscaling infrastructure, powered by highly optimized Apache Spark™ for up to 50x performance gains.



Machine learning run time

One-click access to preconfigured machine learning environments for augmented machine learning with state-of-the-art and popular frameworks such as PyTorch, TensorFlow, and scikit-learn.



MLflow

Track and share experiments, reproduce runs, and manage models collaboratively from a central repository.



Choice of language

Use your preferred language, including Python, Scala, R, Spark SQL and .Net—whether you use serverless or provisioned compute resources.



Collaborative notebooks

Quickly access and explore data, find and share new insights, and build models collaboratively with the languages and tools of your choice.



Delta lake

Bring data reliability and scalability to your existing data lake with an open source transactional storage layer designed for the full data lifecycle.



Native integrations with Azure services

Complete your end-to-end analytics and machine learning solution with deep integration with Azure services such as Azure Data Factory, Azure Data Lake Storage, Azure Machine Learning, and Power BI.



Interactive workspaces

Enable seamless collaboration between data scientists, data engineers, and business analysts.



Enterprise-grade security

Effortless native security protects your data where it lives and creates compliant, private, and isolated analytics workspaces across thousands of users and datasets.



Production-ready

Run and scale your most mission-critical data workloads with confidence on a trusted data platform, with ecosystem integrations for CI/CD and monitoring.

Describe Azure data services for modern data warehousing



Azure Data Lake Storage Gen2

Azure DataFactory



Azure Synapse Analytics



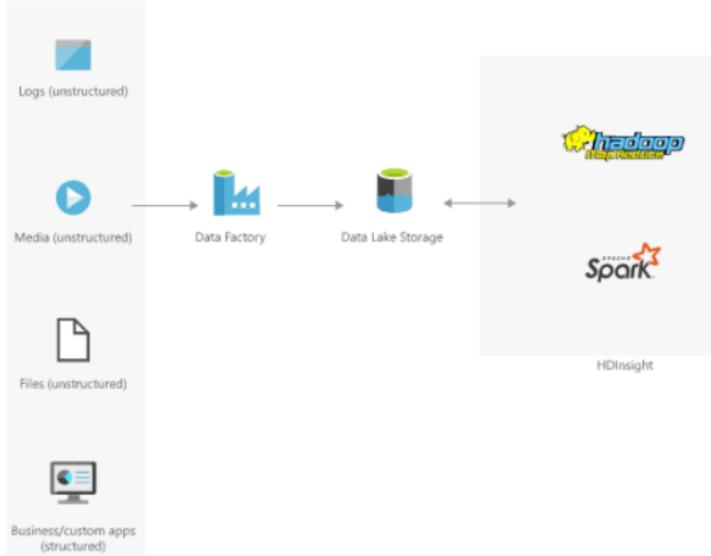
Azure Databricks

Azure HDInsight

open-source ecosystem



Integrate natively with Azure services

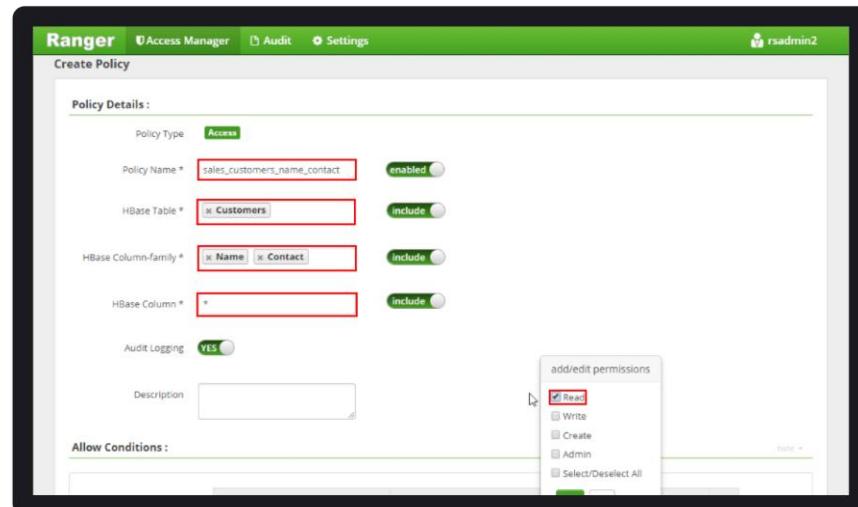


Get the flexibility of multiple languages and tools

A screenshot of Visual Studio Code showing an HDInsight workspace. The Explorer sidebar lists files like 'hbase_query.hql', 'hbase_query2.hql', and 'hbase_query3.hql'. The main editor shows HQL code for interacting with an HBase cluster. A preview pane shows the results of a query. The bottom status bar indicates the code is running on 'Azure HDInsight'.

Use your preferred productivity tools, including Visual Studio, Eclipse, IntelliJ, Jupyter, and Zeppelin. Write code in familiar languages such as Scala, Python, R, JavaScript, and .NET.

End-to-end security for analytics workloads



- Secure your cluster with virtual network isolation and control outbound traffic using Azure Firewall and VNet.
- Sign in using your corporate domain credentials with Azure Active Directory (Azure AD) and multifactor authentication.
- Enforce fine-grained authorization policies using Apache Ranger. Enjoy the benefits of data masking and row-level filtering.
- Use your own encryption keys to protect end-to-end data with encryption in transit.

Describe data visualization in Microsoft Power BI



describe the role of paginated reporting



describe the role of dashboards



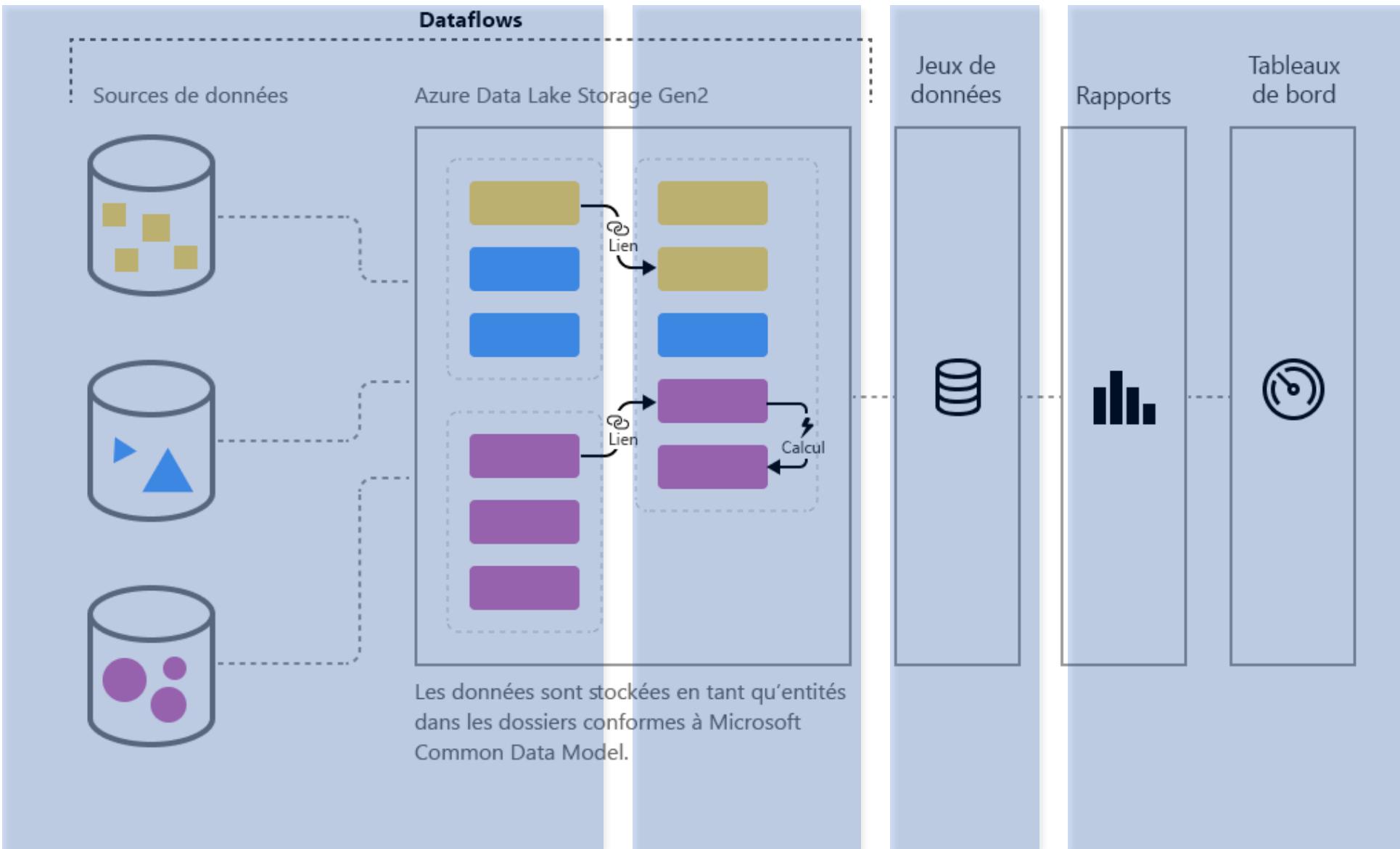
describe the workflow in Power BI



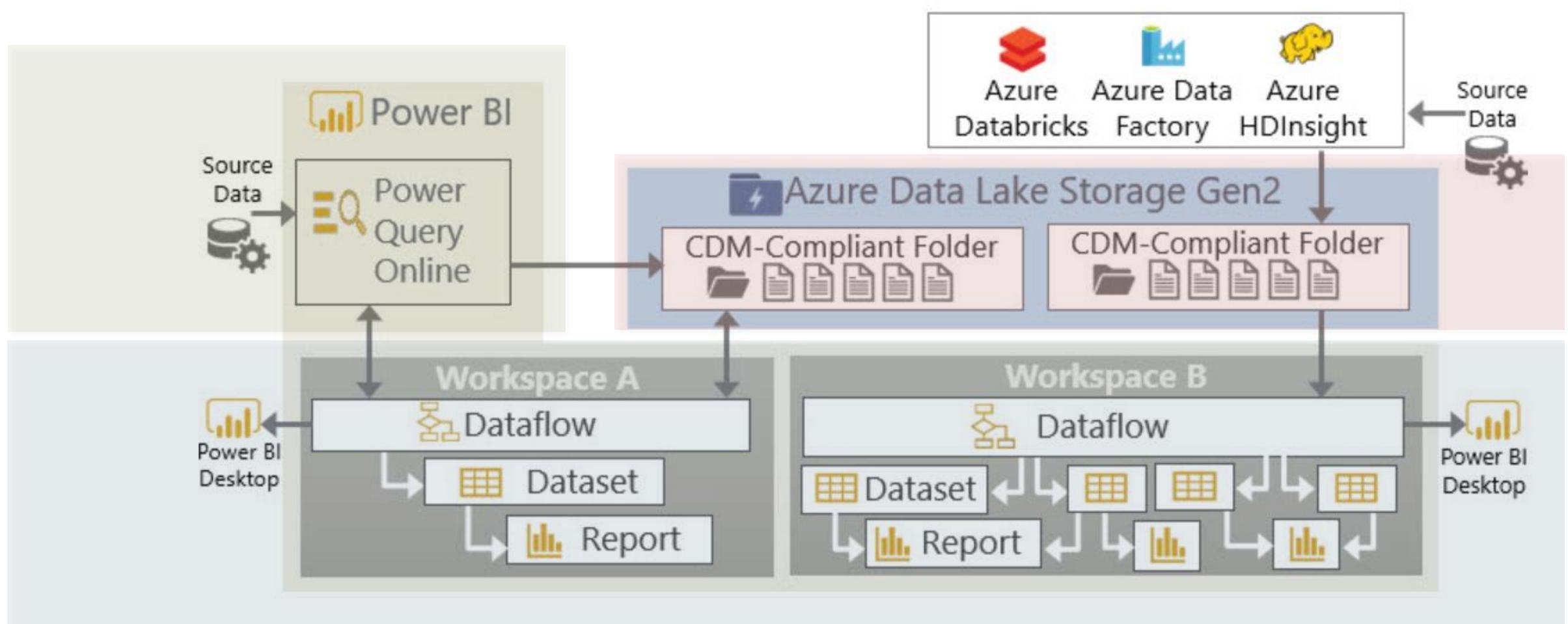
Data Producer / Data consumer

Data Analysts

INGEST → PREPARE → SERVE → VISUALIZE



Data producer / Data consumer – Azure Data services



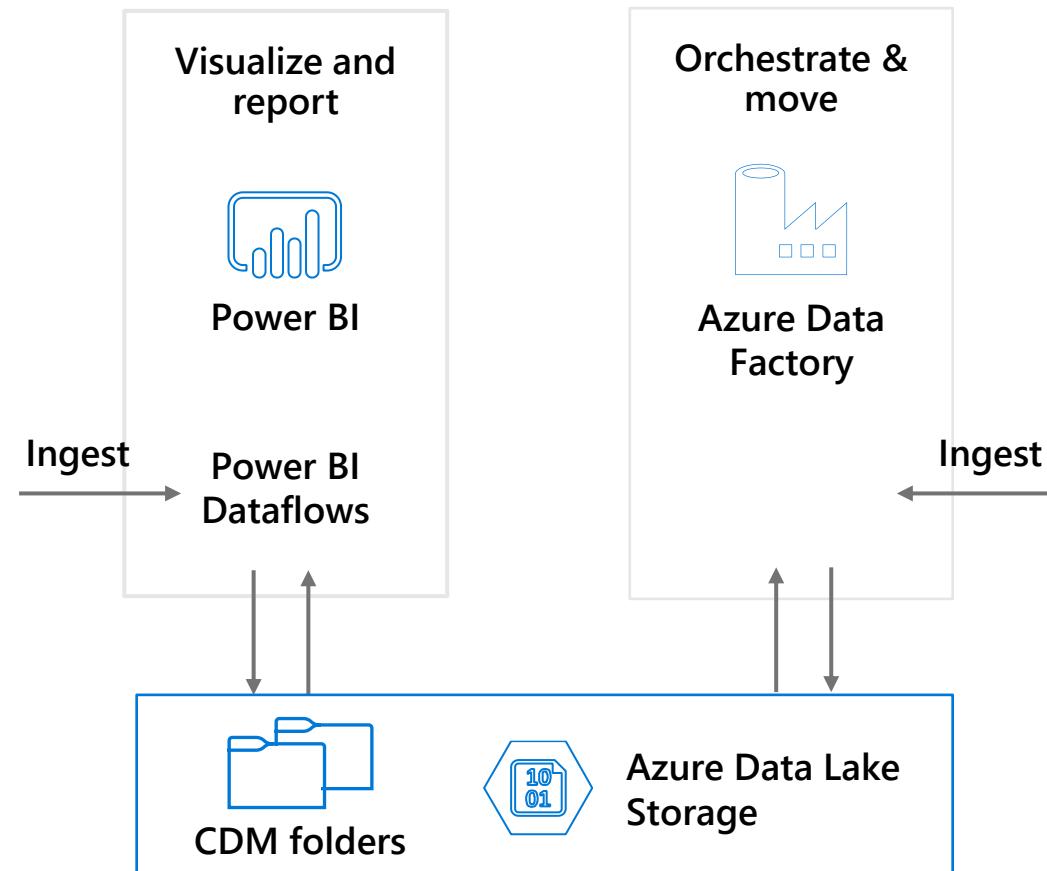
Unify data across your organization

Power BI + Azure Data Factory + Azure Data Lake Storage

Power BI Dataflows

Business analysts can create reusable ETL logic to ingest any data source with point and click simplicity

Can be configured to automatically store data in CDM format on Azure Data Lake Storage

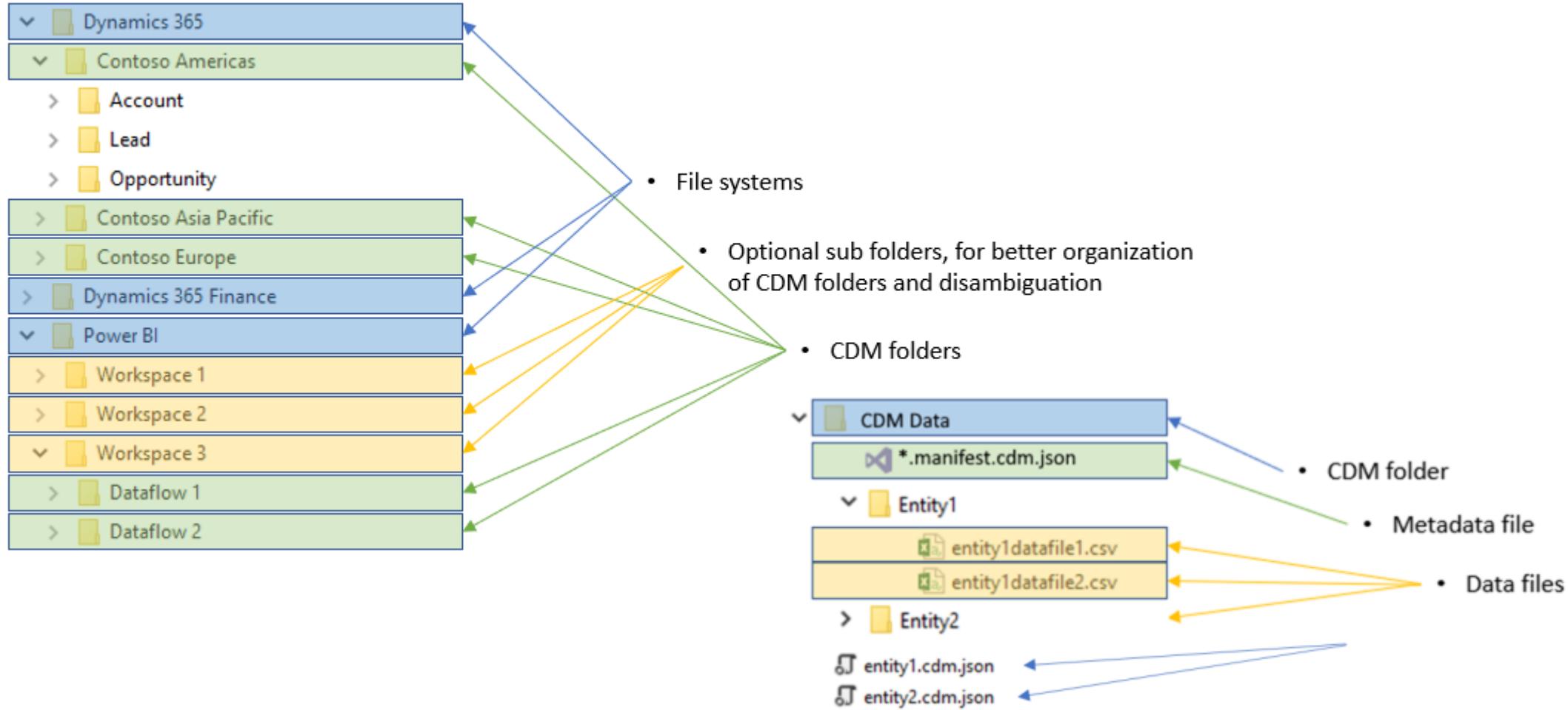


Integration Runtime

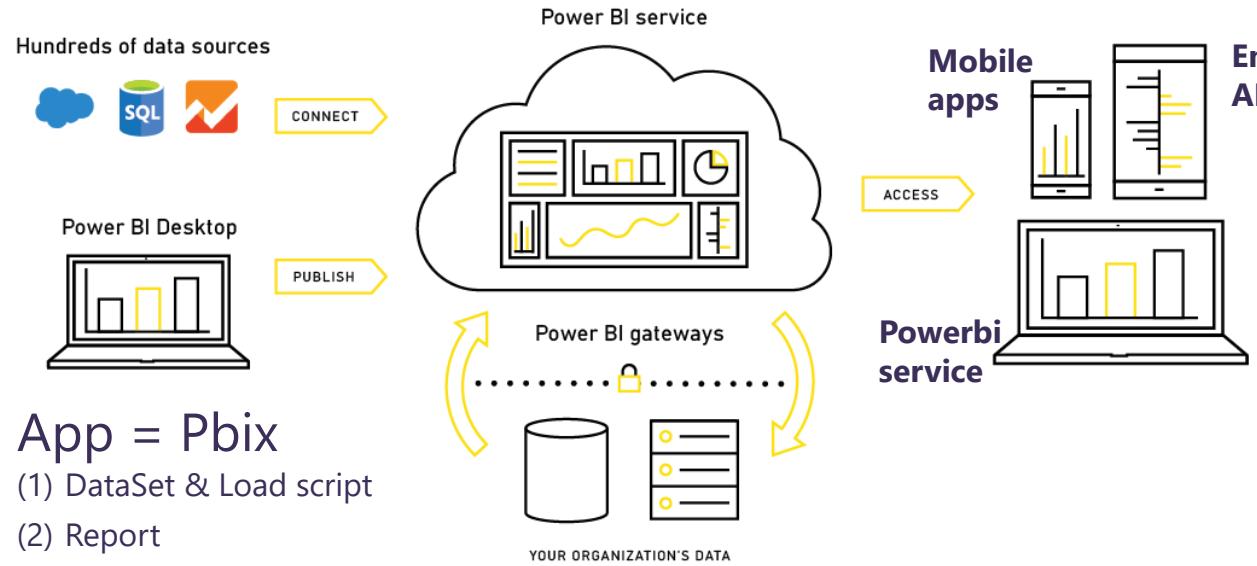
IT professionals can run SSIS packages natively in Azure Data Factory, so you don't have to recreate years of on-premise ETL logic

One lake for all data enables business analysts, IT professionals, and data scientists to collaborate without having to move the data around

Azure Data Lake Storage Gen2 Common Data Model



Shared datasets



App = Pbix

- (1) DataSet & Load script
- (2) Report

Workspace:
Sales Data

Sales
Analysis

Workspace:
Sales
Analytics

YTD Sales Revenue
Daily Sales Targets
Sales by Product

Sales
Trends

MoM Sales Trends
Regional Sales Trends

Allows users to create their own reports and dashboards based on an existing dataset. It can cross workspace boundaries.

Benefits

- ✓ Different people handle data modeling and reports
- ✓ Have as many or few report pages as needed
- ✓ Results in fewer datasets
- ✓ Less work to maintain (especially measures and rowlevel security)
- ✓ Easier for report creators to know which data to use
- ✓ Reduce number of dataset refreshes that run
- ✓ Lessen security & compliance concerns
- ✓ Reduce risk of inconsistencies & inaccurate data

Shared dataset - Endorsement

Allows users to create their own reports and dashboards based on an existing dataset. It can cross workspace boundaries.

The screenshot shows the 'self service' section of the Power BI interface. On the left, there's a sidebar with various icons and a list of options: 'New', 'Report', 'Visualize your data', 'Paginated Report', 'Build a paginated report', 'Dashboard', 'Build a single-page data story', 'Dataset', 'Create a dataset to use in a report', 'Dataflow', 'Prep, clean, and transform data', 'Streaming dataset', 'Build visuals from real-time data', and 'Upload a file'. At the bottom of this sidebar, it says 'workspace by m'. In the center, there's a search bar with the placeholder 'Search' and a list titled 'Select a dataset to create a report'. The list contains four items:

Name	Endorsement	Owner
Sales & Returns Sample v201912	<input checked="" type="checkbox"/> Promoted	Ali Bouhaddou
locationstream		Ali Bouhaddou
Prediction report for Churn[Prediction]		Ali Bouhaddou
Sales & Returns Sample v202007		Ali Bouhaddou

At the top right of the main area, there's a yellow button labeled 'Create app'.

Endorsement should:

- ✓ Convey trust in the data
- ✓ Use sanctioned data
- ✓ Be based on a process
- ✓ Be done by a subject matter expert

Shared dataset –Dataset Hub

Accueil

Favoris >

Récent >

Créer

Jeux de données

Applications

Partagé avec moi

Pipelines de déploiement

Apprenez

Espaces de travail >

Mon espace de tra...

Explorez les jeux de données de votre organisation pour trouver les données qui correspondent à vos besoins. [En savoir plus](#)

Jeux de données recommandés

Power BI Lifecycle Dataset Certifié

Baseline Erosion and New ACR Promue

E2E Deal Insights Promue

Intel vs AMD Promue

Tous les jeux de données Récent Mes jeux de données

Recher...

□	Nom	Approbation	Propriétaire	Espace de travail	Actualisé	Confidentialité
Power BI Lifecycle Dataset	Certifié	Tamas Zsolt Pol...	Power BI Lifecycle Data...	Il y a 13 heures	-	
MTC Insights Model	Promue	Scott Hulke	US MTC Reporting	Il y a 22 minutes	-	
Repair ItemTrend V0.1	Promue	Chat Mishra	IcM Business Metrics	Il y a 52 minutes	-	
TTA Trend Fundamental_V0.1	Promue	Chat Mishra	IcM Business Metrics	il y a une heure	-	
Intel vs AMD	Promue	Mark Aggar	CloudOTools	il y a une heure	-	
Outage_Livesite Excellence_V01	Promue	Chat Mishra	IcM Business Metrics	Il y a 2 heures	-	
TTM_Livesite Excellence_V0.1	Promue	Chat Mishra	IcM Business Metrics	Il y a 2 heures	-	
E2E Deal Insights	Promue	Vidya Sagar M...	ROC BI and Analytics	Il y a 3 heures	-	

Shared dataset – Build Permissions

Assign Build permissions:

- ✓ In dataset permissions (explicitly)
- ✓ When sharing a report or dashboard
- ✓ When publishing an app

The screenshot shows the Power BI service interface. On the left, there's a sidebar with navigation icons for Home, Dashboards, Reports, and Workbooks. Below these are sections for 'Related content' (empty), 'DASHBOARDS' (empty), 'REPORTS' (listing 'Sales & Returns Sample v2...' and 'Self service report'), and 'WORKBOOKS' (empty). The main area displays a 'Sales & Returns Sa...' dataset. A modal window is open, titled 'Sharing', showing the sharing settings for this dataset. It includes a search bar, a list of 'USERS AND GROUPS WITH ACCESS' (showing 2 recipient(s)), and a yellow 'Add user' button. The list contains two entries: 'Ali Bouhaddou' (admin@ads78500.onmicrosoft.com) with 'Admin (Owner)' permissions, and 'powerbidemo1 powerb...powerbidemo1@yahoo.com' with 'Member (Ow...' permissions.

USERS AND GROUPS WITH ACCESS	EMAIL ADDRESS	PERMISSIONS
Ali Bouhaddou	admin@ads78500.onmicrosoft.com	Admin (Owner)
powerbidemo1 powerb...powerbidemo1@yahoo.com		Member (Ow...

Reports - Collaboration

Apps

- ✓ Grant people access to a subset of available resources within the workspace

The screenshot shows the Power BI workspace interface. On the left, there's a sidebar with navigation links: Home, Favorites, Recent, Apps, Shared with me, Workspaces, and Sales Analytics. The Sales Analytics link is highlighted with a red box. The main area displays a list of items under the 'Reports' tab. Each item has columns for NAME, ACTIONS, OWNER, and INCLUDED IN APP. A red box highlights the first four items: Call Center Stats, Product Quantity Breakdown, Product Sales Analysis, and Sales Summary. All four items have the 'INCLUDED IN APP' switch set to 'Yes'. The fifth item, Severity Levels, has the switch set to 'No'.

NAME	ACTIONS	OWNER	INCLUDED IN APP
Call Center Stats	[Actions]	Sales Analytics	Yes
Product Quantity Breakdown	[Actions]	Sales Analytics	Yes
Product Sales Analysis	[Actions]	Sales Analytics	Yes
Sales Summary	[Actions]	Sales Analytics	No
Severity Levels	[Actions]	Sales Analytics	Yes

Workspace

- ✓ Manage access to resources globally to allow people discover related content (reports/dashboards/datasets/dataflows)

Sharing

- ✓ best suited to informal scenarios where content (reports/dashboards) is shared with just a few people who work closely together

The screenshot shows a Power BI dashboard titled 'Sales Analytics'. At the top right, there are three buttons: 'Export', 'Share' (which is circled in red), and 'Subscribe'. Below the dashboard, there's a sidebar with sections: Shared with me, Favorites, Recent, Apps, and Shared with me. The 'Share' button is highlighted with a red circle.

The screenshot shows the Power BI workspace permissions interface. On the left, the navigation bar includes 'Power BI' and 'dataflow'. The main area displays a list of reports under the 'Reports' tab. A context menu is open over the first report, 'Prediction report for Churn[Prediction]', showing options like 'Edit', 'Share', 'Copy', 'Delete', and 'More'. Two arrows point from the 'More' option to the 'Access' panel on the right and to a dropdown menu for selecting a role.

Access

dataflow

Add admins, members, or contributors. [Learn more](#)

Enter email addresses

Member

Admin
Member
Contributor
Viewer

NAME	PERMISSION
Ali Bouhaddou	Admin
Ali Bouhaddou	Admin
Ali Bouhaddou	Member
powerbidemo1 powerbidemo1	Member

Workspace permissions

Assign roles @workspace level to grant access to all resources within the workspace
Share specific content and define fine grained permissions



- Home
- Favorites
- Recent
- Apps
- Shared with me
- Deployment pipelines
- Learn
- Workspaces
- Commun

Search...

Dashboards Reports Workbooks Datasets Dataflows

NAME ↑	ENDORSEMENT	ACTIONS
Sales & Returns Sample v201912	--	

Sales & Returns Sample v201912

Allow users to personalize visuals in reports

+ Create



Settings for Sales & Returns Sa...

Export data

Choose the type of data you allow your end users to export.

Summarized data

Filtering experience

Allow users to change filter types



Enable search for the filter pane



Cross-report drill through

Allow visuals in this report to use drill-through targets from other reports



Comments

Allow users to add comments to this report.



Personalize visuals

Allow report readers to personalize visuals to suit their needs.



Shared datasets - paginated reports

offline/online distribution through

The screenshot shows a paginated report interface. At the top, there's a navigation bar with File, View, Export, Parameters, Print, Comments, Subscribe, and Share buttons. A dropdown menu says "Select to View Performance" with "Mickey" selected. A yellow "View report" button is also present. On the left, there's a sidebar with various icons. The main content area has a yellow header "Garage sale results report for Mickey". Below it, there's a section for "Badge Photo" (empty), "Age: 6", "Birthplace: Iowa", "Year Hired: 2016", and "Manager Comments: Bit of a troublemaker. Loves Paginated Reports". Underneath, there's a table titled "Items Sold" with columns for Category, 9/1/2018, 9/8/2018, and Total. The table data is as follows:

Category	9/1/2018	9/8/2018	Total
Electronics	\$32.00	\$75.00	\$107.00
Furniture		\$400.00	\$400.00
Handbag		\$6.00	\$6.00
Household Items	\$21.00	\$15.00	\$36.00
Kitchen Items		\$17.00	\$17.00
Toys	\$63.00	\$51.00	\$114.00
Total	\$116.00	\$564.00	\$680.00

At the bottom, a footer says "© 2018 Paginated Report Bear".

Subscribe to emails

SAMPLE PAGINATED REPORT

+ Add new subscription

sample paginated report Run Now On

Format

PDF (.pdf)

XML (.xml)

Comma Separated Values (.csv)

PDF (.pdf) **Selected**

Accessible PDF (.pdf)

Microsoft Excel (.xlsx)

Microsoft Word (.docx)

Microsoft PowerPoint (.pptx)

Include an optional message...

Frequency

Monthly

Every month on day(s)

3

Scheduled Time

4 00 PM (UTC+01:00) Brussels, Copenhagen

Dry run vendredi 1er ! :)

Test Options

Practice Mode allows you to specify your preferred testing environment. Use this mode to specify the objectives you want to include in your test, the timer length, and other test properties. You can also modify the testing environment during the test by selecting the Options button.

Follow the instructions below to specify the questions included in your test and how you want the test administered. Remember that simulation type questions are not available in mobile devices.

The following options may not be changed for this test instance once you submit this page:

Include * questions out of 148.

Custom duration of minutes.

Randomize the question order of your test.¹

* All fields are required

¹ The answers for each question will be randomized whether or not question order randomization occurs.

Continue

