Microsoft

Microsoft GSI Partner Enablement

Empowering Business Growth: Modernizing Data and Analytics with Microsoft Fabric in the AI Era

<Presenter>

<Date>

Technofocus

Your trainers today

Presenter 1

Presenter 2

Course Plan and Learning Objectives

Morning session

Time	Topic
0830-0900	Check-in & registration
0900-0915	Introduction and housekeeping
0915-0945	Explore end to end analytics with Microsoft Fabric
0945-1030	Real-time Analytics Overview **Lab: Ingesting Data using RTA**
1030-1045	**Break**
1045-1145	From KQL to power BI Reports: Data Visualization **Lab: Building reports from KQL**
1145-1230	**Lunch Break**

Afternoon session

Time	Topic
1230-1330	Data Science in Fabric **Lab: Getting started with Building a ML Model in Fabric**
1330-1400	Synapse Data Warehouse Overview
1400-1430	Lakehouse Architecture in Fabric
1430-1500	**Break, Q&A**
1500-1530	**Lab: Building a DW using Pipelines**
1530-1630	**Lab: Building a Data Lakehouse**
1630-1700	Continuing the Learning Journey Q&A

Target Audience
Technical

Course Prerequisites
Prior knowledge of Azure Data platform

Suggested Supplementary Certification
DP-203

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01
What we're hearing from our customers

Today's data and analytics challenges

Scaling data and analytics across the organization while reducing costs and optimizing existing data and management

Growing BI adoption to drive a data-driven organization across LOBs and teams

Making data more accessible to technical and non-technical users in a governed and secure way

Breaking down data siloes and eliminating unnecessary data sprawl

Modernizing your data and analytics platform is critical for resilient business transformation

Siloed, incomplete data	→	Integrated, unified data and governance
Technical platform that requires advanced analytics skills	→	Accessible insights that scale with ease
Costly integration and ongoing maintenance	→	Transparent, cost-optimized SaaS solution

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02

Introducing Microsoft Fabric

Introducing Microsoft Fabric

Microsoft Fabric enables you to manage your data in one place with a suite of analytics experiences that work together seamlessly, including:

- Data Factory

- Synapse Data Engineering

- Synapse Data Warehouse

- Synapse Data Science

- Synapse Real-Time Analytics

- Power BI

- Data Activator

Microsoft Fabric does it all—in a unified solution

An end-to-end analytics platform that brings together all the data and analytics tools that organizations need to go from the data lake to the business user

Data Integration	**Data Engineering**	**Data Warehouse**	**Data Science**	**Real Time Analytics**	**Business Intelligence**	**Observability**
Data Factory	Synapse	Synapse	Synapse	Synapse	Power BI	Data Activator

Unified data foundation
OneLake

UNIFIED

| SaaS product experience | Security and governance | Compute and storage | Business model |
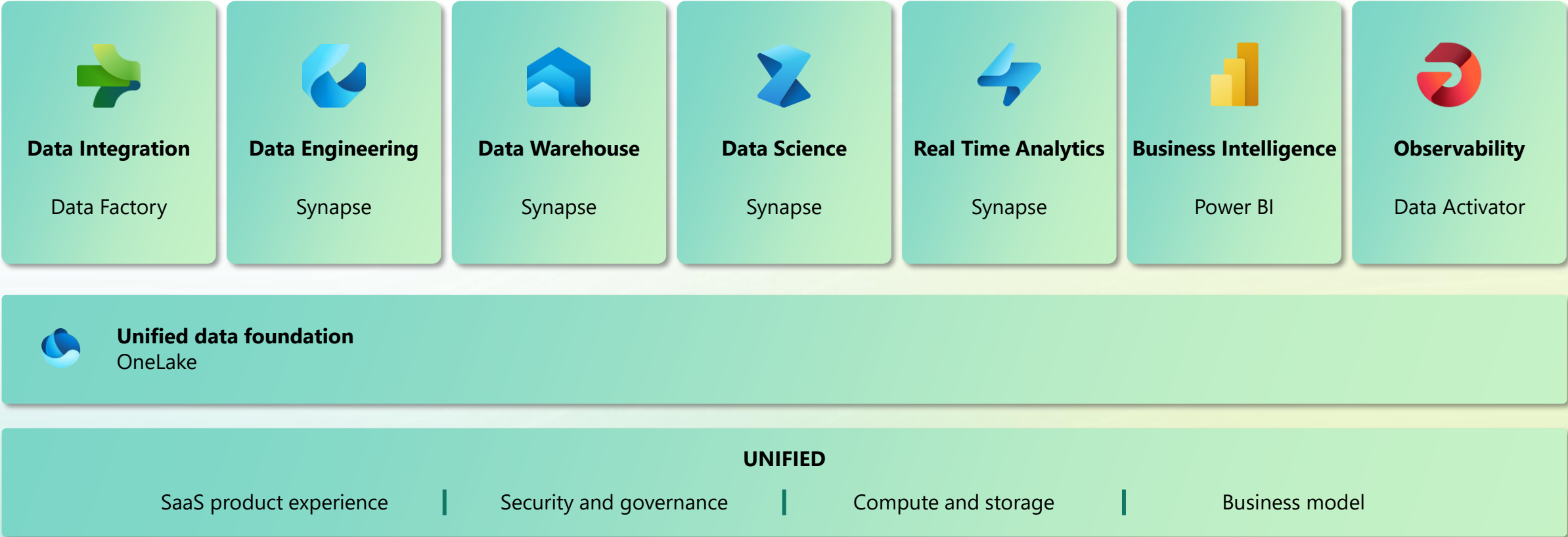
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03
**Microsoft Fabric
capabilities**

Align teams within a governed source of truth

Lake-Centric and Open

- Eliminate the integration tax with an open data format at every layer

- Ensure your teams are using the most accurate, trusted, and up-to-date data even more real-time scenarios

- Stay in control of your department's data

- Keep your data protected with out-of-the-box security, compliance, and governance

- Use native integration with Microsoft Graph Data Connect and Dataverse to transform and analyze all your Microsoft data
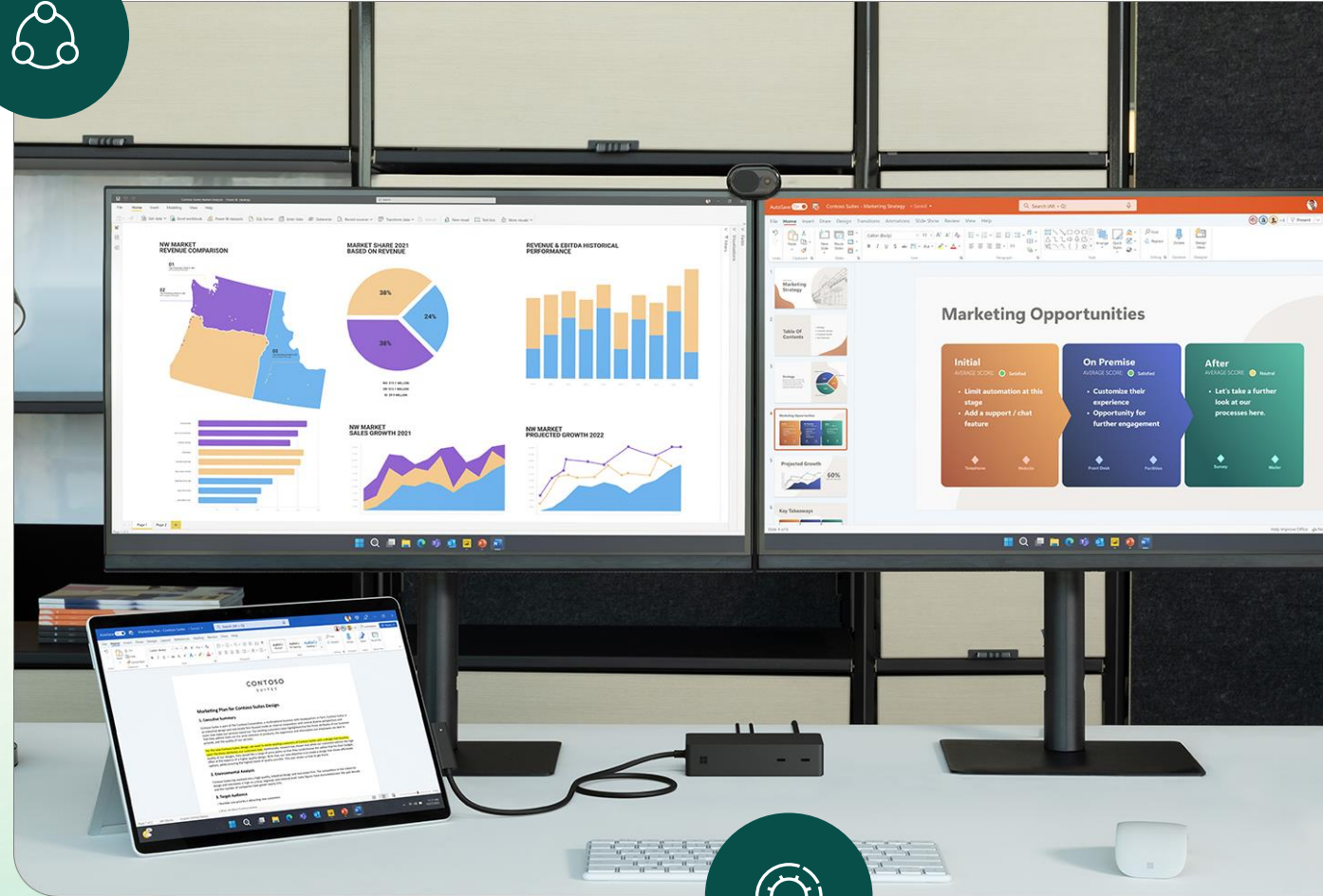
Enable secure, democratized insights across your organization

Center of Enablement for Every User

- Equip your data professionals with role-specific, self-serve tools in a unified experience to reduce time to insight

- Use conversational language to create dataflows/pipelines, generate code, build machine learning models, or visualize results at the speed of thought with Copilot in Microsoft Fabric

- Securely infuse intelligence where business users work everyday with unmatched integration with Microsoft 365 to drive better decisions and actions

Leverage a powerful solution with flexibility in cost and usage

Accelerated Time to Value

- Optimize spend through a flexible, SaaS-based pricing model

- Achieve simplified, transparent cost management

- Increase adoption through seamless sign-up, onboarding, and access to data

- Maintain and seamlessly integrate partner and/or third-party solutions
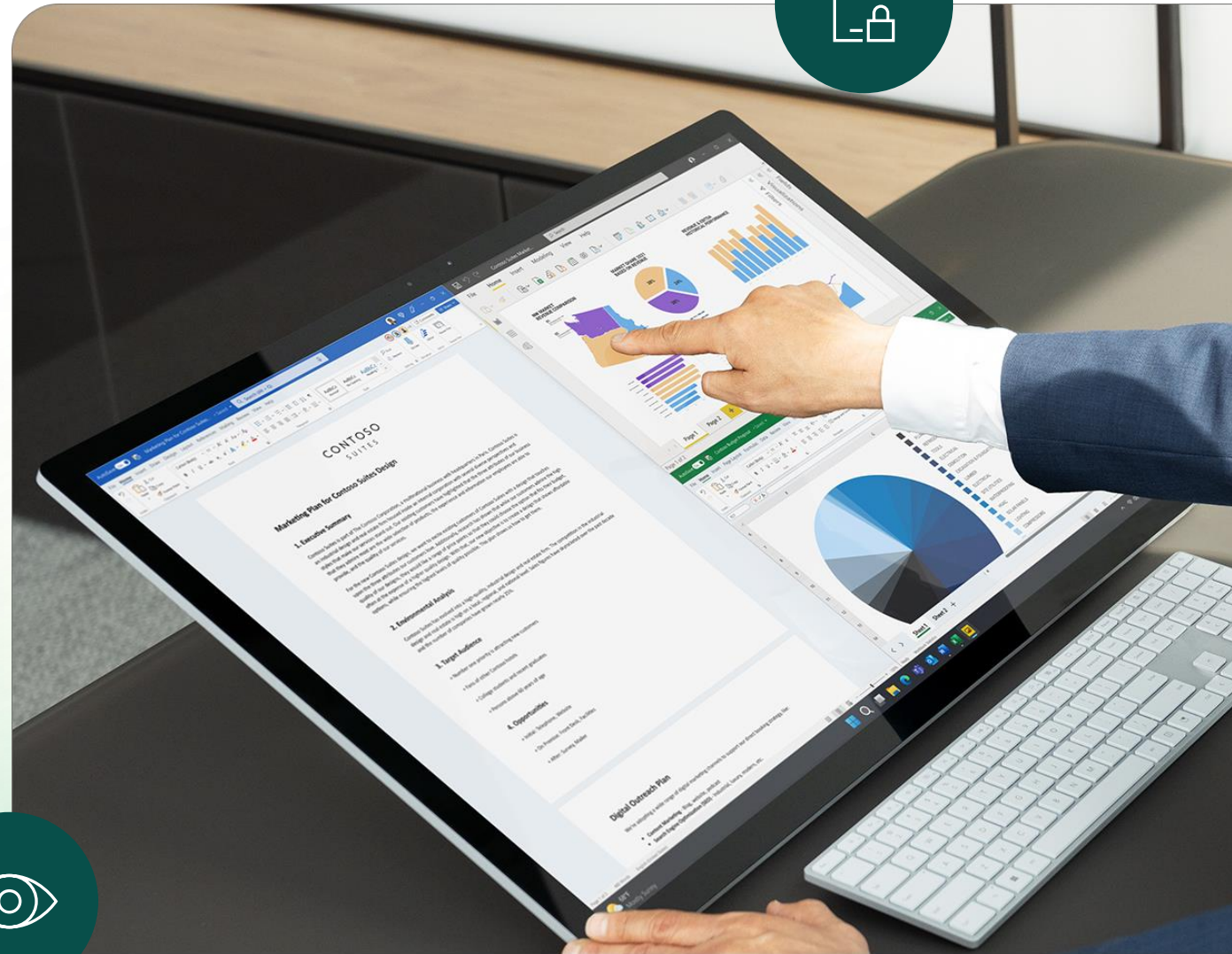
Microsoft

04
The business value you can expect

Get more done and accelerate time to insights with Copilot in Microsoft Fabric

- Turn your words into dataflows and data pipelines so you can intelligently integrate data from anywhere

- Get suggestions for code and entire functions in real-time

- Get a guided machine learning model creation experience to unlock more insights in your data.

- Create and tailor Power BI reports in seconds, generate DAX calculations, create narrative summaries, and ask questions about your data

- Even create your own conversational experiences that combine Azure Open AI models and your organization's data and publish as plug-ins.

- Most importantly, Microsoft Cloud runs on trust which means your data always remains your data

Future-proof your business by doing more with less

Ease of deployment and management

Spend less time with maintenance, and more time uncovering insights

Flexible, transparent pricing model

Optimize cost management and pricing

Secure, self-service data and analytics

Enable teams to self-serve data and analytics while maintaining security and compliance

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05
Getting started

Empower your data professionals to move faster and unlock more value from your data

Data Engineers

- **Execute faster** with the ability to spin up a Spark VM cluster in seconds, or configure with familiar experiences like Git DevOps pipelines for data engineering artifacts
- **Streamline your work** with a single platform to build and operate real-time analytics pipelines, data lakes, lake houses, warehouses, marts, and cubes using your preferred IDE, plug-ins, and tools.
- **Reduce costly data replication** and movement with the ability to produce base datasets that can serve data analysts and data scientists without needing to build pipelines

Supporting experiences:

- Data Factory
- Data Warehouse
- Data Engineering
- Real-time analytics

Data Scientists

- **Quickly tune a custom model** by integrating a model built and trained in Azure ML in a Spark notebook
- **Work faster** with the ability to user your preferred data science frameworks, languages, and tools
- **Bypass engineering dependencies** with the ability to use your preferred no-code ML Ops to deploy and operate models in production
- **Tap into proven-at-scale models and services** to accelerate your AI differentiation (AOAI, Cognitive Services, ONNX integration, etc).

Supporting experiences

- Data Science
- Azure ML

→ Serve data via warehouse or lakehouse →

Data Analysts

- **Avoid slow, progress-stagnating data wrangling** by seamlessly triggering a workflow that can unlock data engineering tools and capabilities quickly.
- **Accelerate your work** with visual and SQL based tools for self-serve data transformations and modeling as well as self-serve tools for reporting, dashboards, and data visualizations
- **Turn data into impact** with industry-leading BI tools and integration with the apps your people use everyday like Microsoft 365

Supporting experiences

- Data Warehouse
- Real-time analytics
- Power BI

→ Serve transformed data →

Data Citizens

- **Make more data-driven decisions** with actionable insights and intelligence in your preferred applications
- **Maintain access to all the data you need**, without being overwhelmed by data ancillary to your role thanks to fine grain data access management controls

Supporting experiences

- Power BI
- Microsoft 365

→ Serve insights via embedding →

Serve data via warehouse or lakehouse

Data Stewards

- **Maintain visibility and control of costs** with a unified consumption and cost model that provides evergreen spend optics on your end-to-end data estate
- **Gain full visibility and governance** over your entire analytics estate from data sources and connections to your data lake, to users and their insights

Paradigm shift in Data Consumption

- Big Data Platforms

- Terabytes of data

- Low latency

- High freshness

- Streaming technologies

- Index everything by default

Enterprises are still behind in handling real-time data consumption

Time for a Digital Transformation

High complexity

High costs of the existing solutions

High Skill

Integration between different teams

Time for a Digital Transformation
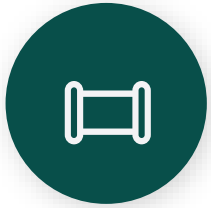
- Few experts to generate reports

- Long waiting lists

- Outdated data

Time for a Digital Transformation

As enterprises rely more on digital technologies for operations and customer interactions, monitoring and analyzing IT systems in real-time have become essential.

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Real-Time Analytics in Fabric
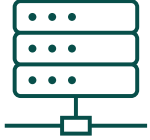
With Real-Time Analytics in Fabric, we help organizations scale up their analytics solution and democratize data for advanced and citizen data scientists.

Real-Time Analytics is built on top of Azure Data Explorer Engine

Real-Time Analytics in Fabric - Reducing Complexity

- One Logical Copy

- By-default streaming ingestion

- By-default indexing everything

- Time and Hash based data partitioning

- Native support for structured, semi-structured and free text data

- In-place transformation

Real-Time Analytics in Fabric - Simplifying

Tightly integrated with Fabric experiences

Mirroring to Lakehouse

By-default integration with event streaming sources

By-default integration with Power BI

Real-Time Analytics in Fabric

Auto-managed scale

Cross workload solutions

Easy onboarding with friendly UX

Managed experiences

Solving the Single Source of Truth problem

Highlighted industry scenarios
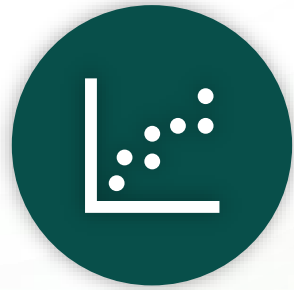
IOT Analytics

Log analytics (security)

Highlighted industry scenarios

- Cybersecurity

- Asset tracking and management

- Predictive maintenance

- Supply chain optimization

- Customer experience

- Energy management
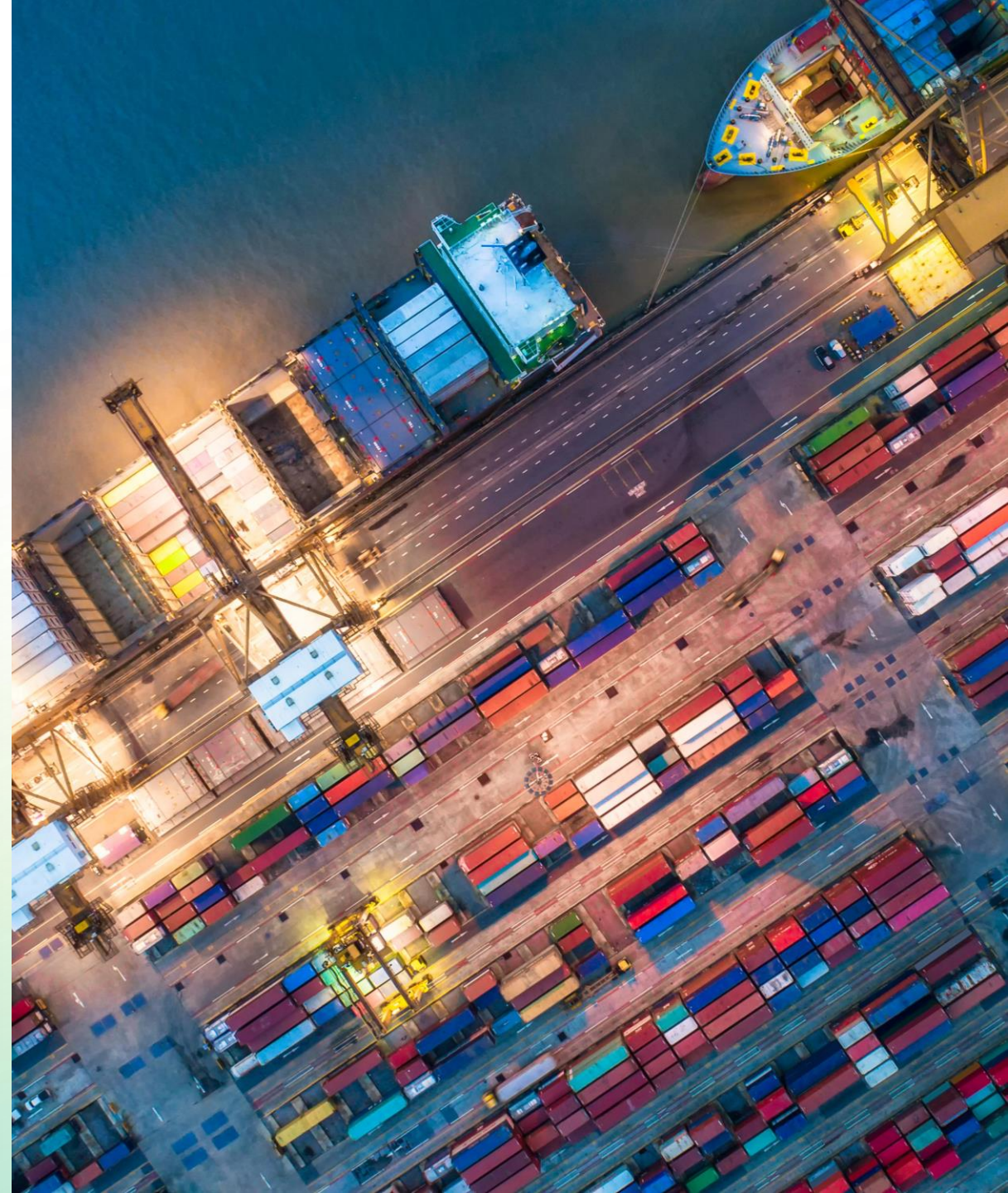
Highlighted industry scenarios

- Inventory management

- Quality control

- Environmental monitoring

- Fleet management

- Health and safety

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Hands on labs

AMD
together we advance_data analytics

The Workshop

Ingesting Data using RTA

Building reports from KQL

Getting started with Building a ML Model in Fabric

Building a DW using Pipelines

Building a Data Lakehouse

**Module 0
Introduction to Real-
time Analytics and Setup**

Common Real-time Analytics Patterns

Data Source

Lakehouse & Data Warehouse

Structured / Unstructured

Event Streaming

ML Model

Ingestion

CI & Shortcuts

Pipeline & Dataflows

Store

Kusto DB

Mirror
Lakehouse & Data Warehouse

Expose

PBI

Kusto Query

Notebook
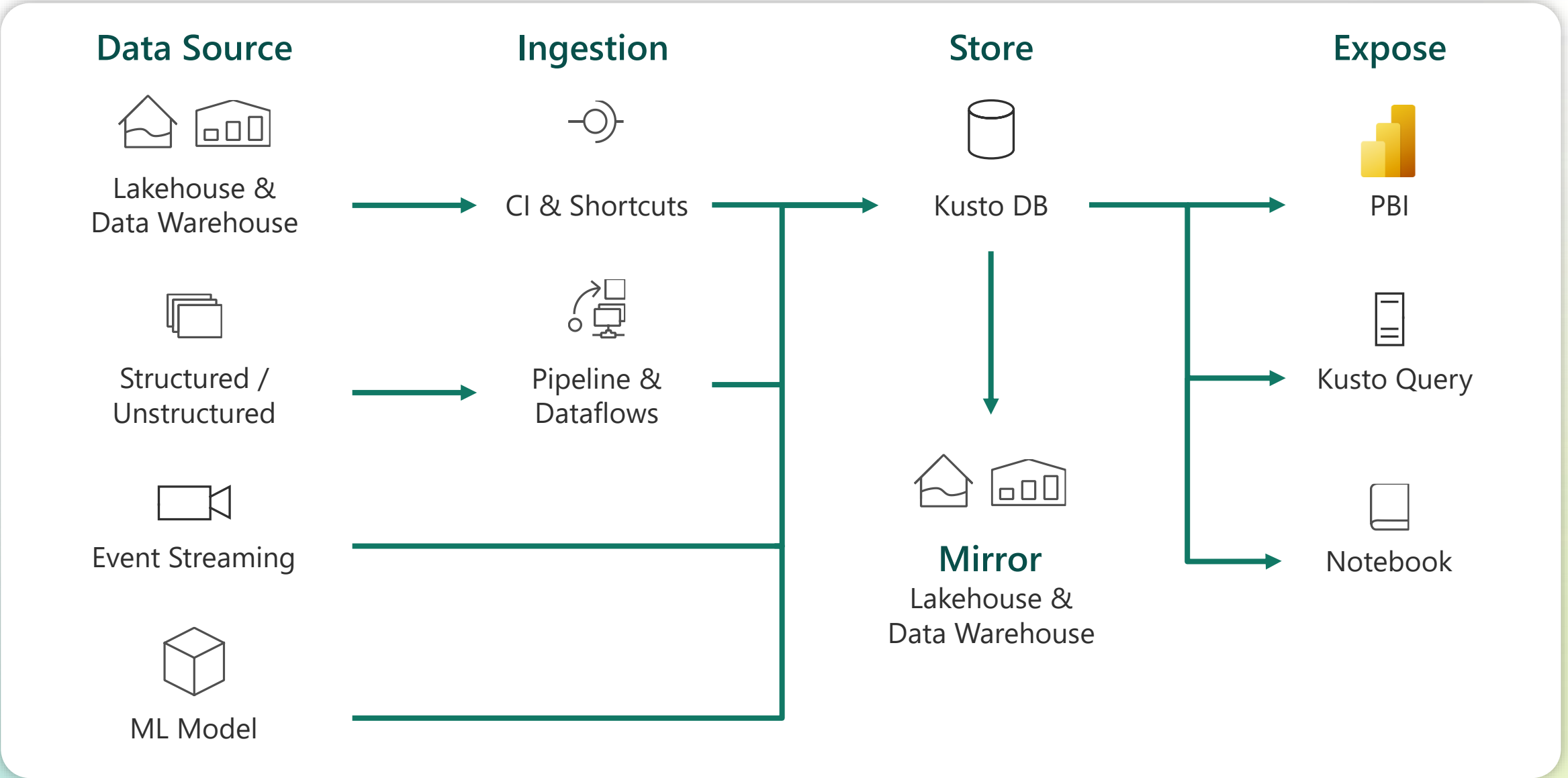
Eventstreams

Key Capabilities

Centralized place for event data
Capturing, transforming, and routing event data.

Various source connectors
Fetch event data from diverse source, such as Custom Apps to push into Eventstreams, Azure Event Hub or Samples.

No-code experience
Drag and drop makes it intuitive and easy to use. Build an end-to-end data flow diagram.

Multiple destinations
Lakehouse, KQL Database, Custom App, Data Activator (Reflex)
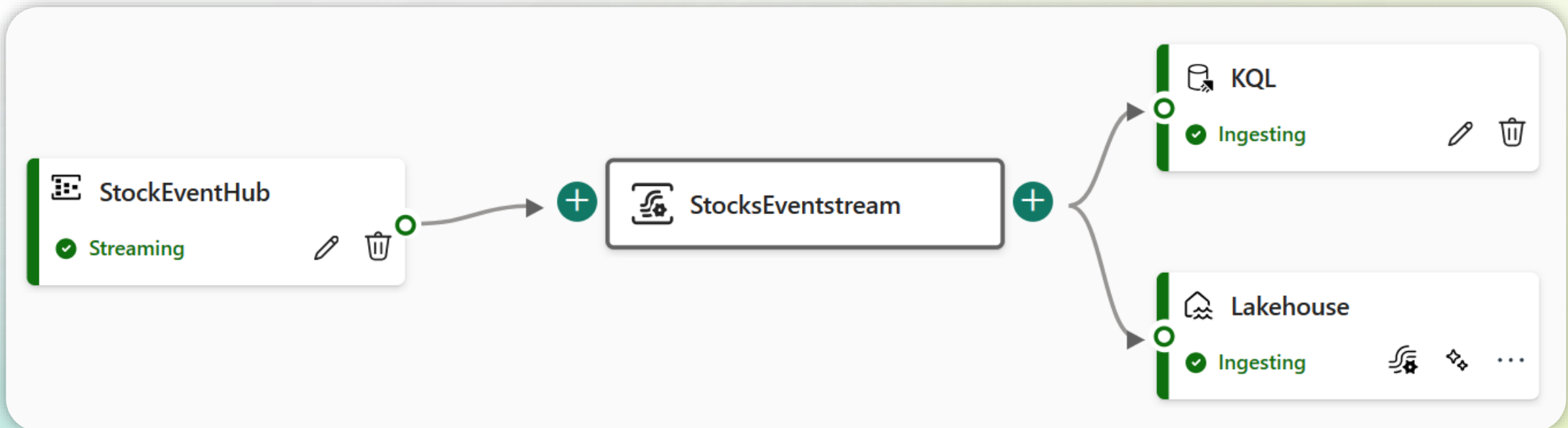
Scenario Overview

A ficticious financial company named "**AbboCost**", would like to set up a stock monitoring platform to monitor price fluctuations and report on historical data.

Throughout the workshop, we'll look at how every aspect of Microsoft Fabric can be incorporated as part of a larger solution -- by having everything in an integrated solution, we'll be able to quickly and securely integrate data, build reports, create data warehouses and lakehouses, forecast using ML models, and more.

Scenario Overview

AbboCost Financial is a small firm that monitors several volatile stocks. Their current data feed provides stock prices in real time. This feed is all you have to work with.

Your goal: support the development of this fledgling company by developing a modern data analytics solution.

Microsoft Fabric End-to-End Real-Time Analytics Workshop

We'll start by rapidly generating real-time data and understanding how that data can be processed and visualized in Microsoft Fabric

In different modules we'll explore –

- Real-time analytics
- Data warehousing
- Data lakehouse architecture
- Data science

Designed to be cohesive but flexible - all modules involve the same core scenario

Basic Architecture of sample workshop solution
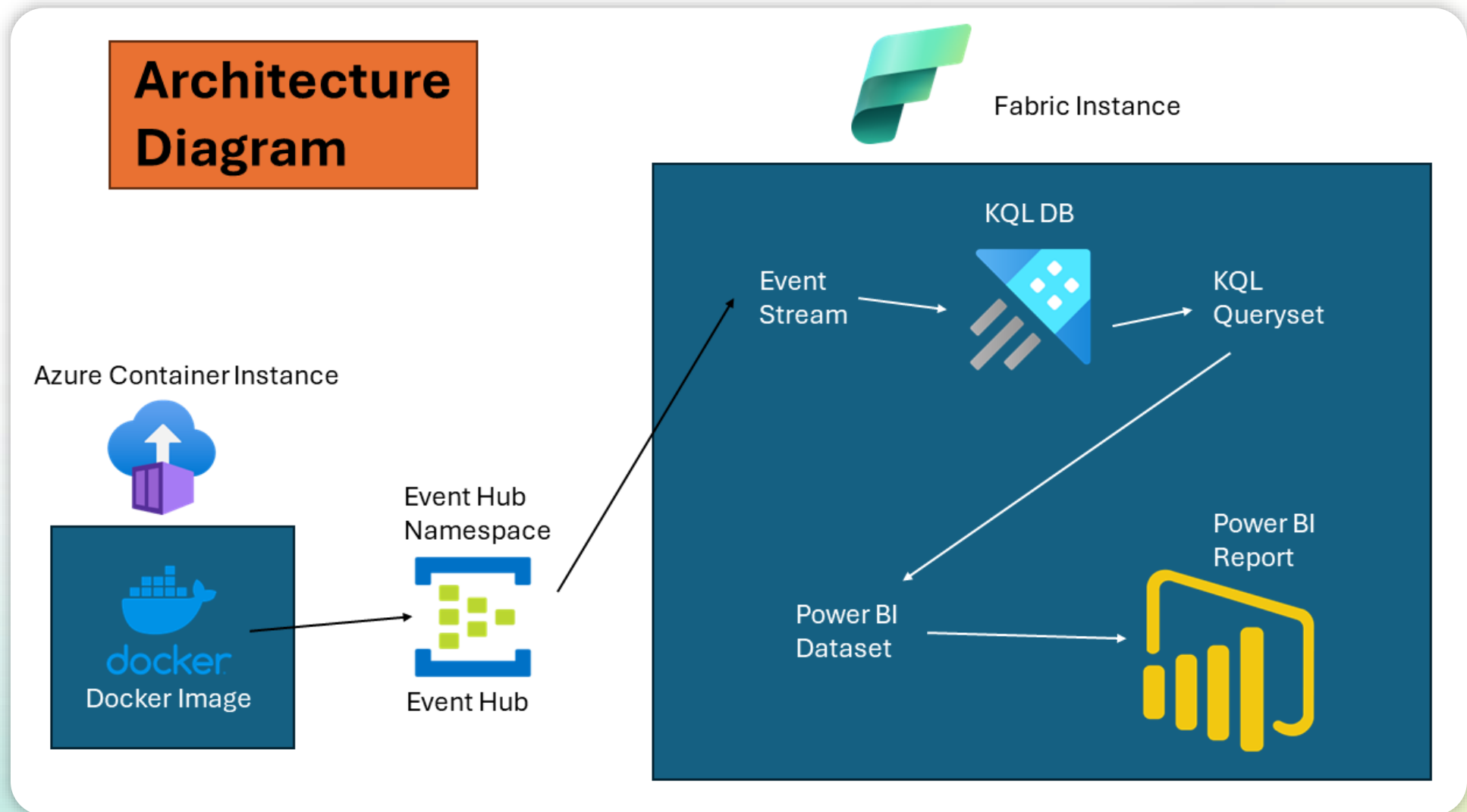
Module 0 – Introduction & Setup

Goals: Understand the solution and deploy the stock price feed generator.

Choice: Decide to deploy the generator as an Azure container or run in a Jupyter notebook.

In general, we recommend deploying as an Azure container if possible, but this requires an Azure subscription.

The data feed will produce 3 pieces of information: stock symbol, current price, and timestamp.
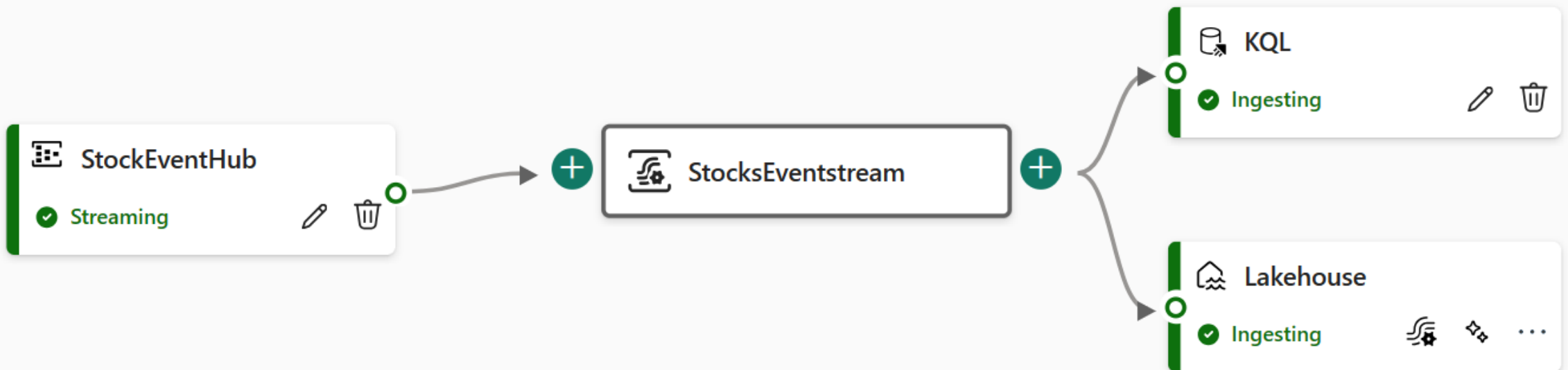
Module 0 – Introduction & Setup

Here are two ways to deploy this application:

- Option 1 - Deploy the app via Jupyter notebook

- Option 2 - Deploy the app via Azure Container Instance

When possible, we recommend deploying the stock price generator via Azure Container Instance (option 2).

- This is because the default Spark cluster will consume a large number of resources.

Module 0 – Introduction & Setup

Instructor-led Shared Environment:

Obtain the following information from the instructor:

- The Event Hub namespace

- The Event Hub name

- The name of the SAS key

- The primary key of the SAS key

- The consumer group name to use, which is unique to each participant

Module 0 – Introduction & Setup

Instructor-led Shared Environment:

- The Event Hub namespace:

- The Event Hub name:

- The name of the SAS key:

- The primary key of the SAS key:

- The consumer group name:

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**Module 1
KQL Database**

KQL Database

Unlimited Scale (query, ingestion, storage)	Any data source	Any data format
Structured Semi-Structured Free-text	Real-time data Transformation of complicated data structure	Streaming analytics in NRT
High performance Low latency High freshness	Timeseries database	Everything is indexed and partitioned

Module 1 – KQL Database Setup

Goals: Create and configure a KQL database to ingest data

With data being fed to the Eventstream, this module focuses on creating and KQL database as a data sink.
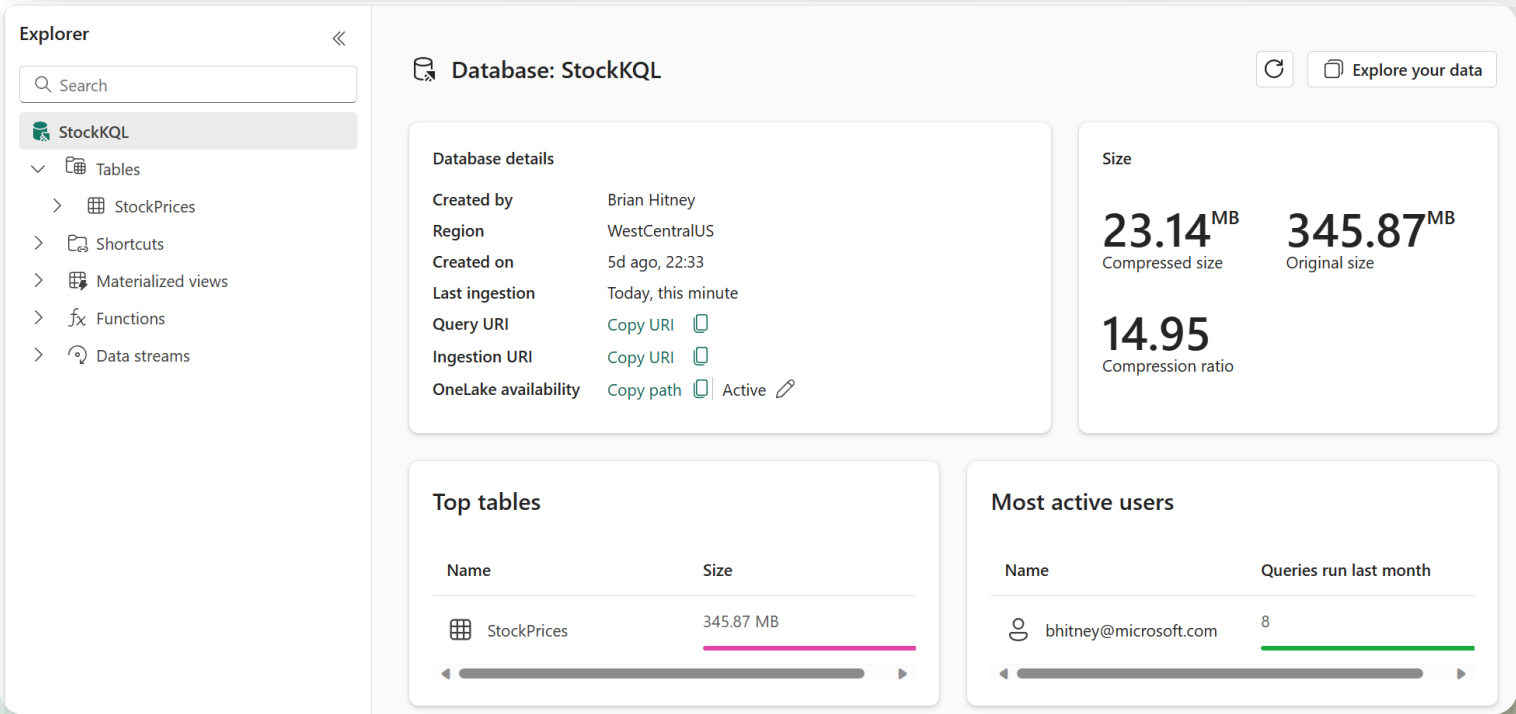
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Module 2
KQL Queries

KQL Queryset

Overview

Uses the Kusto Query Language (KQL) for **creating queries**, views, functions, control commands, customize results and also supports many SQL functions.

Tabs in the KQL queryset can be associated with a different KQL database.

Save queries for later use or share with others to collaborate on data exploration.

You can also change the KQL database associated with any tab, allowing you to run the same query on data in different states.

What is a Kusto query?

A **Kusto query** is a read-only* request to process data and return results.

Has one or more query statements and returns data in a tabular or graph format.

Statements are sequenced by a pipe (|). **Data flows, or is piped, from one operator to the next.**

It's like a funnel, where you start out with an entire data table.

The data is filtered/manipulated at each step and then fed into the following step.

Each time the data passes through another operator, it's filtered, rearranged, or summarized.

* Feb 2024: Update command now in preview

StormEvents 59066 records

| where StartTime >= datatime(2007-11-01)

| where StartTime <= datatime(2007-12-01)

| where State == 'FLORIDA'

| count

23
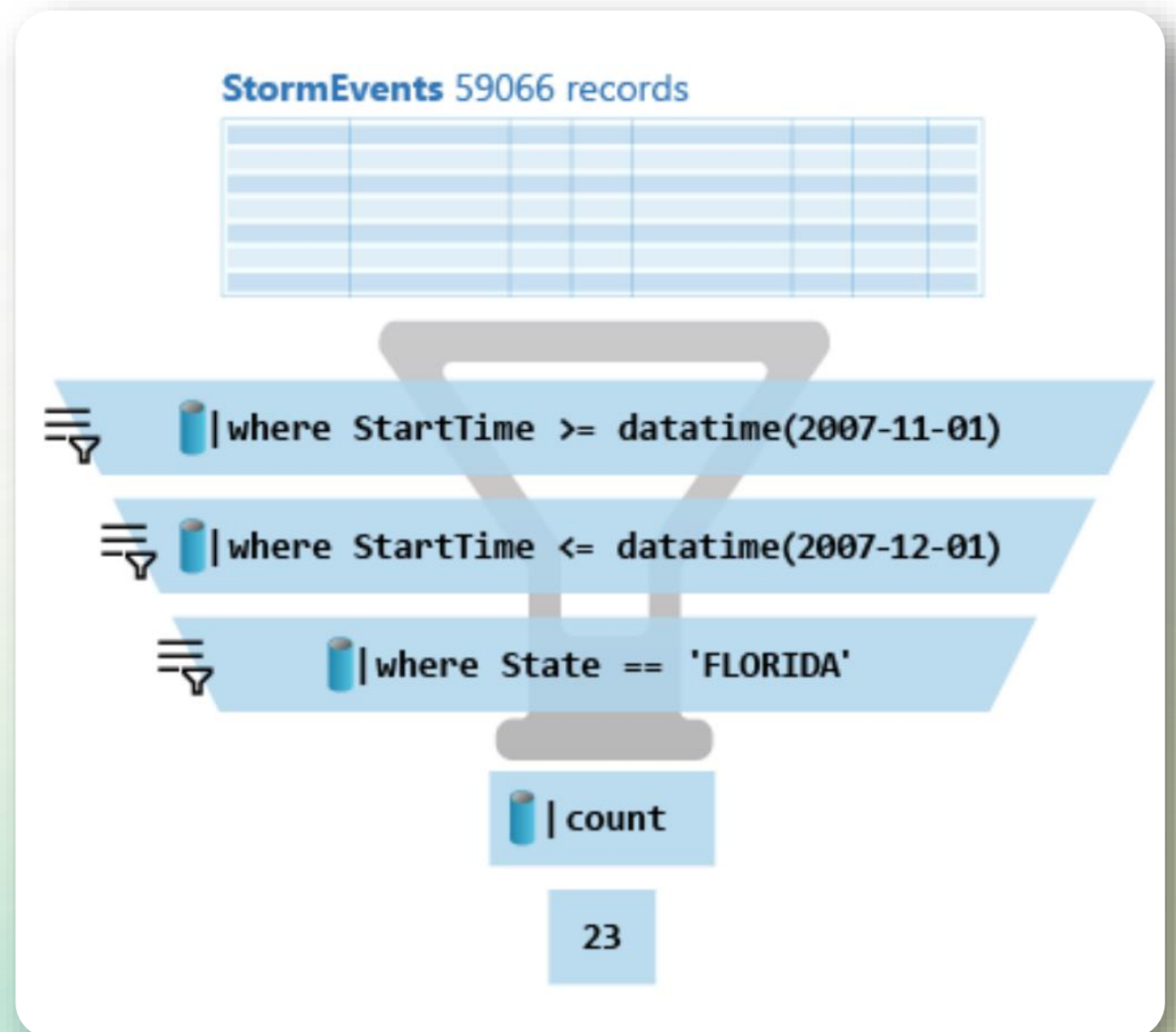
KQL Basic Operations

... | count

   Counts records in input table (e.g. T)

... | take 10

   Get few records - to familiarize yourself with the data. No actual order ensured.

... | where Timestamp > ago(10m) and UserId == 'abdcdef'

   Filtering on a specific fields

... | project Col1, Col2, ...

   Choose some columns (great if input table has dozens of columns)

... | extend NewCol1=Col1+Col2

   Introduces new calculated columns

... | sort by Timestamp ASC

   Sorts result (also can use Order By)

... | render timechart

   Render data into a visual plot while exploring

KQL Capabilities

Schema is

Relational, Lightweight, Dynamic

Databases

Authorization boundary

Transaction boundary

But not query boundary!

Supporting cross-database and cross-cluster queries

Tables

Rectangular

Columns

Supported types: boolean, integer, real, decimal, dates, timespan, string, dynamic (JSON)

Shortcuts (external data)

Stored functions (views)

Materialized views

Module 2 – KQL Querysets

○ **Goals:** Interact with the underlying data via KQL queries

○ Begin writing queries to summarize data using Kusto Query Language. Similar to T-SQL, KQL is designed for data exploration and summarization.

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Module 3
Power BI

Power BI: The bridge between data and decisions

Data Warehouse

Lakehouse

Kusto
(real-time analytics)

**Power BI
service**

Interactive reports,
real-time dashboards,
and paginated reports

Custom visualizations

AI-infused insights and
intuitive data exploration
using natural language query

Sharing and collaboration

Consumption

Web

On-premises

Mobile

Embedded

Teams

PowerPoint

SharePoint

Excel

Microsoft
Power Platform

∞ "…"

Module 3 – Reports in Power BI

- **Goals:** Build a reports in Power BI to display real-time data.

- KQL is the ideal engine to power fast, real-time dashboards. Using a combination of KQL summarizations and Power BI functions, compelling visuals can be created.
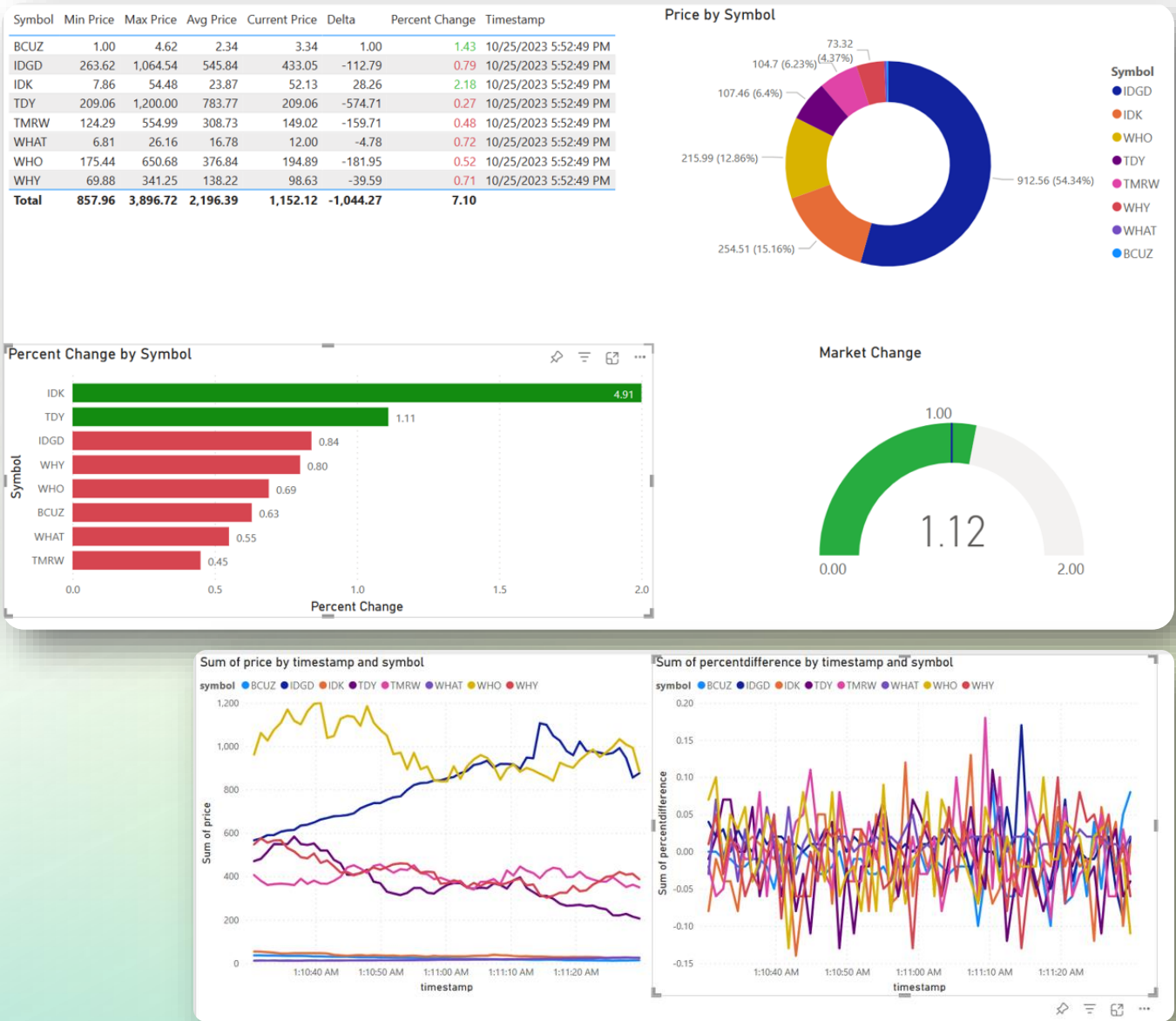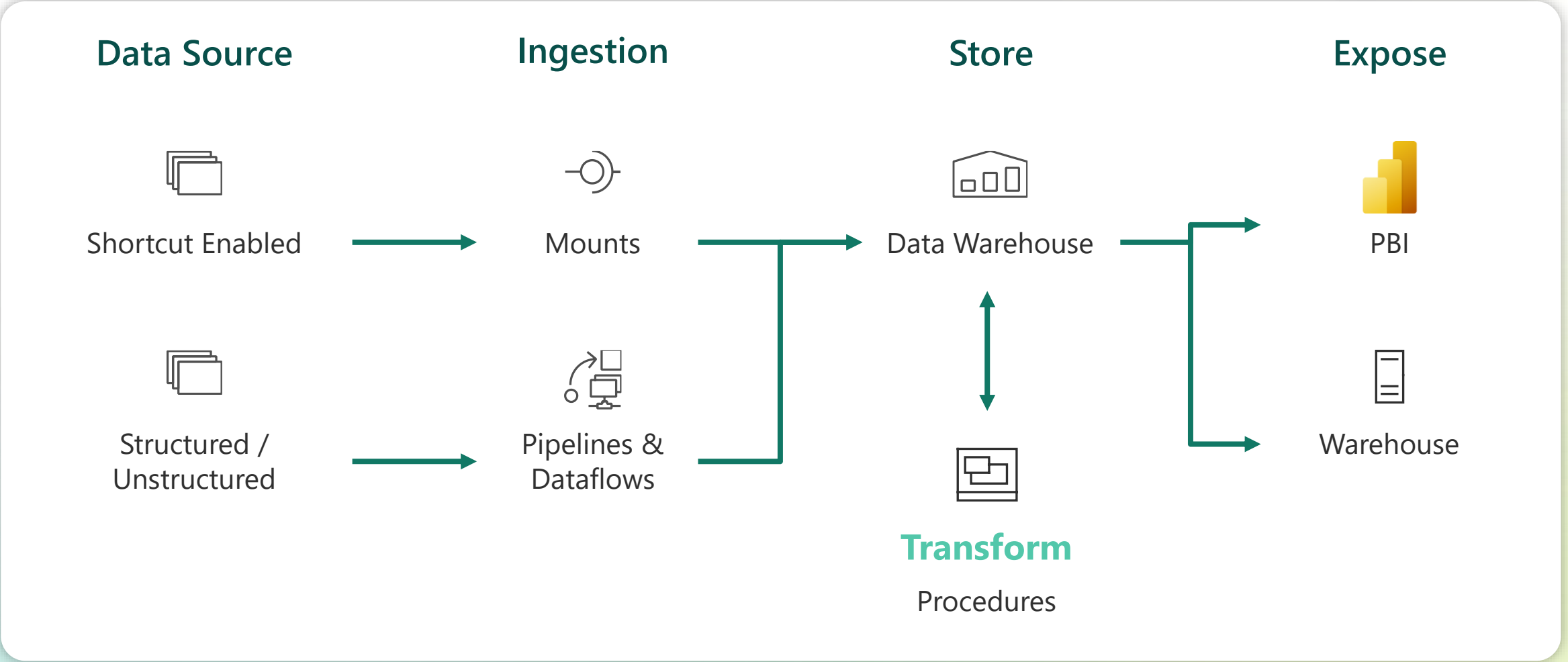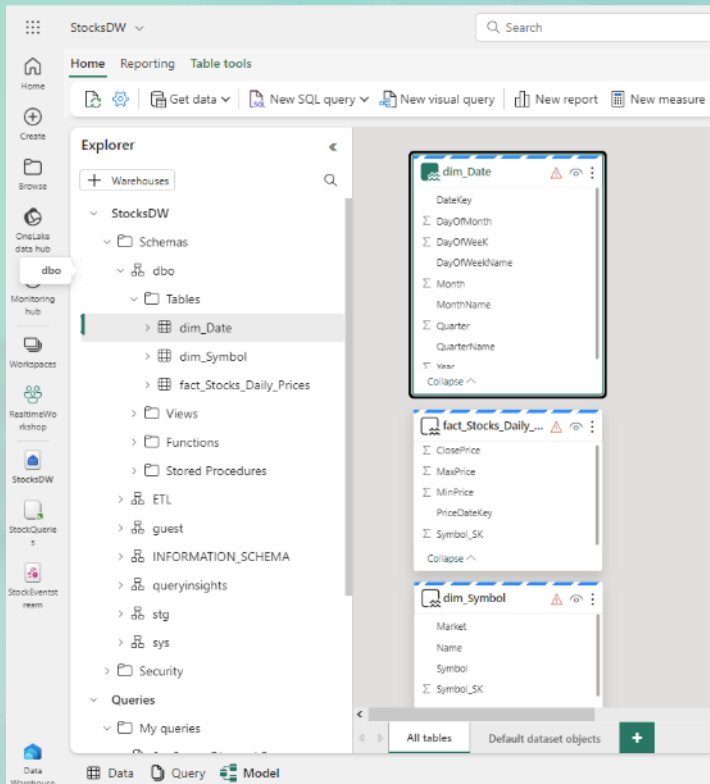
Module 4
Synapse Data
Warehouse

Common Data Warehouse Patterns

Data warehouse | Overview

Enterprise scale data warehouse with open standard format

No knobs performance with minimal set-up and deployment, no configuration of compute or storage needed

Key Capabilities

- Simple and intuitive warehouse experiences for both beginner and experienced data professionals

- Lake-centric warehouse **stores data in OneLake in open Delta format** with easy data recovery and management

- Fully integrated with all Fabric workloads out-of-the box

- Data loading and transforms at scale, with full multi-table transactional guarantees provided by the SQL engine

- Virtual warehouses with cross-database querying and a fully integrated semantic layer

- Enterprise-ready platform with end-to-end performance and usage visibility, with built-in governance and security

- Flexibility to build data warehouse or data mesh based on organizational needs and choice of no-code, low-code, or T-SQL for transformations

Fabric Data Warehouse
vs
Fabric Lakehouse

Decision Guide

https://learn.microsoft.com/en-gb/fabric/get-started/decision-guide-data-store

Search for: Fabric Warehouse Decision Guide

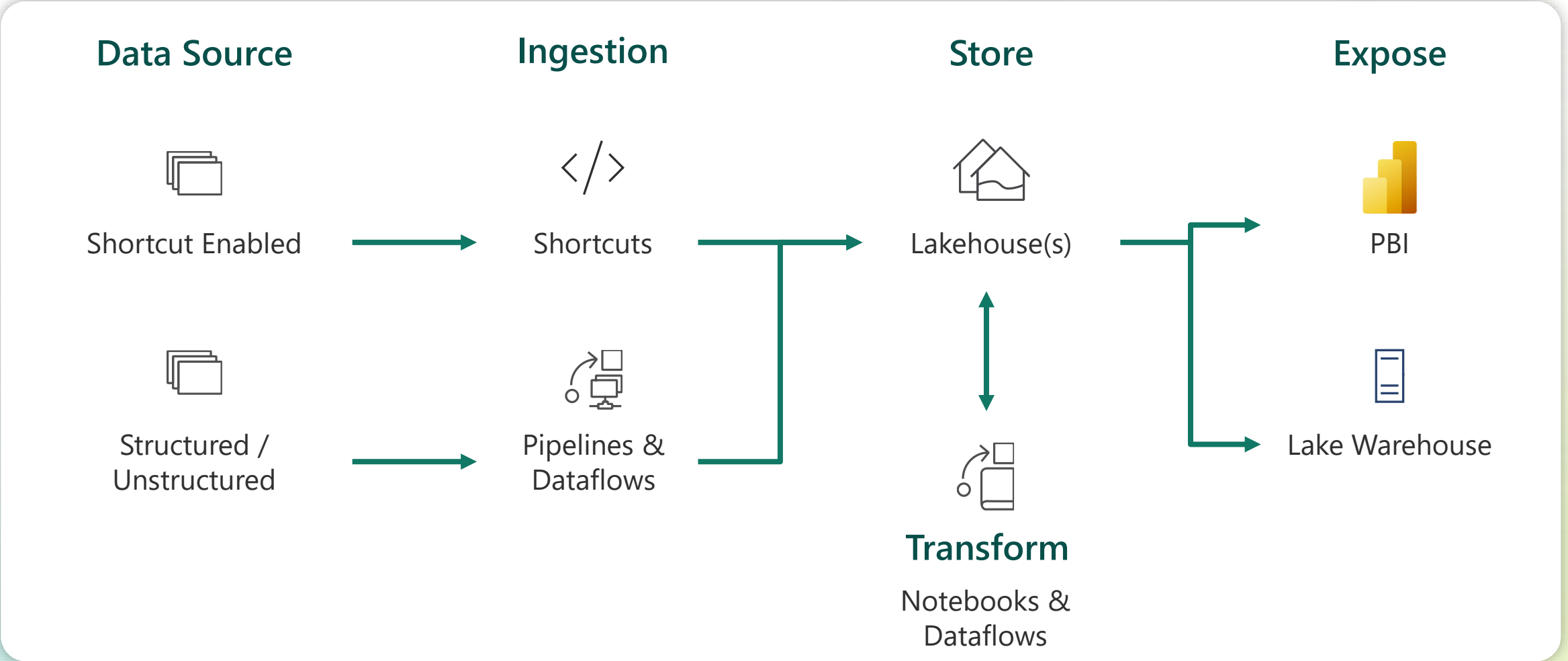|	Data warehouse	Lakehouse	Power BI Datamart	KQL Database (Eventhouse)
Data volume	Unlimited	Unlimited	Up to 100 GB	Unlimited
Type of data	Structured	Unstructured,semi-structured,structured	Structured	Unstructured, semi-structured, structured
Primary developer persona	Data warehouse developer, SQL engineer	Data engineer, data scientist	Citizen developer	Citizen Data scientist, Data engineer, Data scientist, SQL engineer
Primary developer skill set	SQL	Spark(Scala, PySpark, Spark SQL, R)	No code, SQL	No code, KQL, SQL
Data organized by	Databases, schemas, and tables	Folders and files, databases, and tables	Database, tables, queries	Databases, schemas, and tables
Read operations	T-SQL, Spark (supports reading from tables using shortcuts, doesn't yet support accessing views, stored procedures, fuctions etc.)	Spark,T-SQL	Spark,T-SQL,Power BI	KQL, T-SQL, Spark, Power BI
Write operations	T-SQL	Spark(Scala, PySpark, Spark SQL, R)	Dataflows, T-SQL	KQL, Spark, connector ecosystem
Multi-table transactions	Yes	No	No	Yes, for multi-table ingestion. See update policy.
Primary development interface	SQL scripts	Spark notebooks,Spark job definitions	Power BI	KQL Queryset, KQL Database
Security	Object level (table, view, function, stored procedure, etc.), column level, row level, DDL/DML, dynamic data masking	Row level, table level (when using T-SQL), none for Spark	Built-in RLS editor	Row-level Security

Module 5
Data Lakehouse

Common Lakehouse Patterns

Data Source	Ingestion	Store	Expose

Data Source

Shortcut Enabled

Structured / Unstructured

Ingestion

Shortcuts

Pipelines & Dataflows

Store

Lakehouse(s)

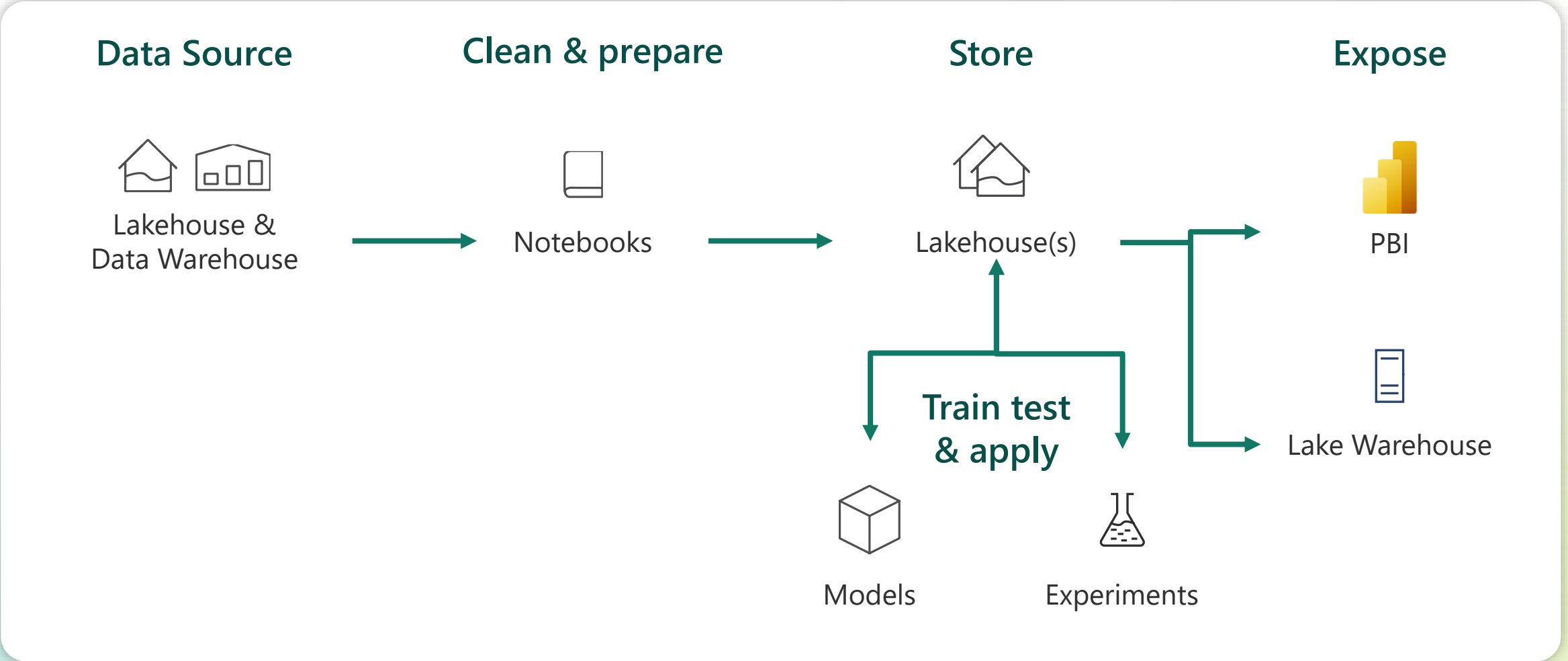**Transform**

Notebooks & Dataflows

Expose

PBI

Lake Warehouse

Module 6
Data Science

Common Data Science Patterns

Explore, clean and prepare

Faster exportation, cleansing and transformation of data with built-in experiences as part of the data science workload

Data Science workloads supports data cleansing, transformation, exploration, and featurization by leveraging built-in experiences on Spark as well as Python based tools

Key Capabilities:

- Accelerate tedious and mundane tasks with Data Wrangler, a code tool to prepare data and generate Python code

- Simplify data analytics, capture and exploit data semantics as users perform transformations on datasets

- Leverage pre-installed open-source libraries for building visualizations like matplotlib, seaborn, Plotly, and more

Machine Learning with MLflow

Built-in model & experiment tracking enables data scientists to track and compare their different experiment runs and model versions

Train, evaluate, and score machine learning models by using built-in Experiment and Model artifacts

Key Capabilities:

- Seamless integration with MLflow for experiment tracking and model registration/deployment

- Automatically capture model pemtrics & parameters with built-in support for MLflow auto-plogging

- SynapseML integration with Azure OpenAI service makes it easier to use Apache Spark to process millions of prompts and scale workflow

- Model registry powered by AzureML

Azure ML vs Fabric Data Science

Azure Machine Learning is an E2E managed ML platform for building, fine-tuning, prompt-engineering, deploying, and operationalizing ML models responsibly at scale.

Microsoft Fabric is a unified solution for analytics, encompassing data integration, data engineering, data warehouse, data science, observational analytics, and business intelligence—all built on open, lake-centric foundations. Within Fabric, there is Data Science in Microsoft Fabric, a SaaS experience to build and use ML models to enrich data as part of data and analytics workflows.

Together you get a seamless Data & AI stack for your entire Data & AI team; from your data scientists, data engineers and machine learning engineers.

Your organization is invested in Azure ML	**Your organization is invested in PBI and seeking impro data implementations**		**Your organization is invested in Azure Databricks**
Choose Azure Machine Learning. Attach Microsoft Fabric for your data workloads. Optionally, Fabric DS can be used for EDA and feature engineering.	**If you'd like to deploy models through managed endpoints, towards MLOps?** Choose Azure ML for ML workload. Attach Fabric for data workloads. Optionally, Fabric DS can be used for EDA and feature engineering.	**If you'd like to deploy models through one-click flows in Fabric DW/Lakehouse or Power BI?** Choose Fabric DS for ML workload. Attach Azure ML for MLOps (CI/CD, model monitoring, etc.)	Your choice for data and ML workload to be on ADB or Fabric + AML. Attach Azure ML if you'd like to fine-tune, prompt-engineer, and deploy pre-built LLMs (Hugging Face, AOAI, Meta).

AzureML & Fabric: Top-line product differentiation

Azure Machine Learning

Value proposition

Azure Machine Learning is a managed end-to-end machine learning platform for building, fine-tuning, deploying, and operating ML models, responsibly at scale.

Ideal personas in your organization

Machine Learning Engineers, Data Scientists

Key capabilities

- ML model building and training with any types of compute including Spark and GPUs for cloud-scale large AI workloads
- Automated ML and drag-and-drop UI
- End-to-end MLOps and repeatable ML pipelines
- Prompt experimentation and LLM fine-tuning
- Model deployment with REST API endpoints, real-time and batch inference

Microsoft Fabric

Value propositions

Microsoft Fabric is a unified solution for analytics—data integration, data engineering, data warehouse, data science, observational analytics, and business intelligence—all built on open, lake-centric foundations.

Ideal personas in your organization

Data Engineers, Data Analysts, ITPros, DBAs, Data Scientists, Cloud Architects

Key capabilities

- Data lake/data warehouse modernization
- Data transformation and unification
- Data visualization
- ML model building and training

AzureML & Fabric: Top-line product capabilities

Azure Machine Learning

Value proposition

Azure Machine Learning is a managed end-to-end machine learning platform for building, fine-tuning, deploying, and operating ML models, responsibly at scale.

Ideal personas in your organization

Machine Learning Engineers, Data Scientists

Key capabilities

- ML model building and training with any types of compute including Spark and GPUs for cloud-scale large AI workloads
- Automated ML and drag-and-drop UI
- End-to-end MLOps and repeatable ML pipelines
- Prompt experimentation and LLM fine-tuning
- Model deployment with REST API endpoints, real-time and batch inference

Data Science in Microsoft Fabric

Value propositions

Data Science in Microsoft Fabric empowers your data professionals to build and use machine learning models to enrich data as part of their data and analytics workflows, all built on top of secured and governed data in Microsoft Fabric.
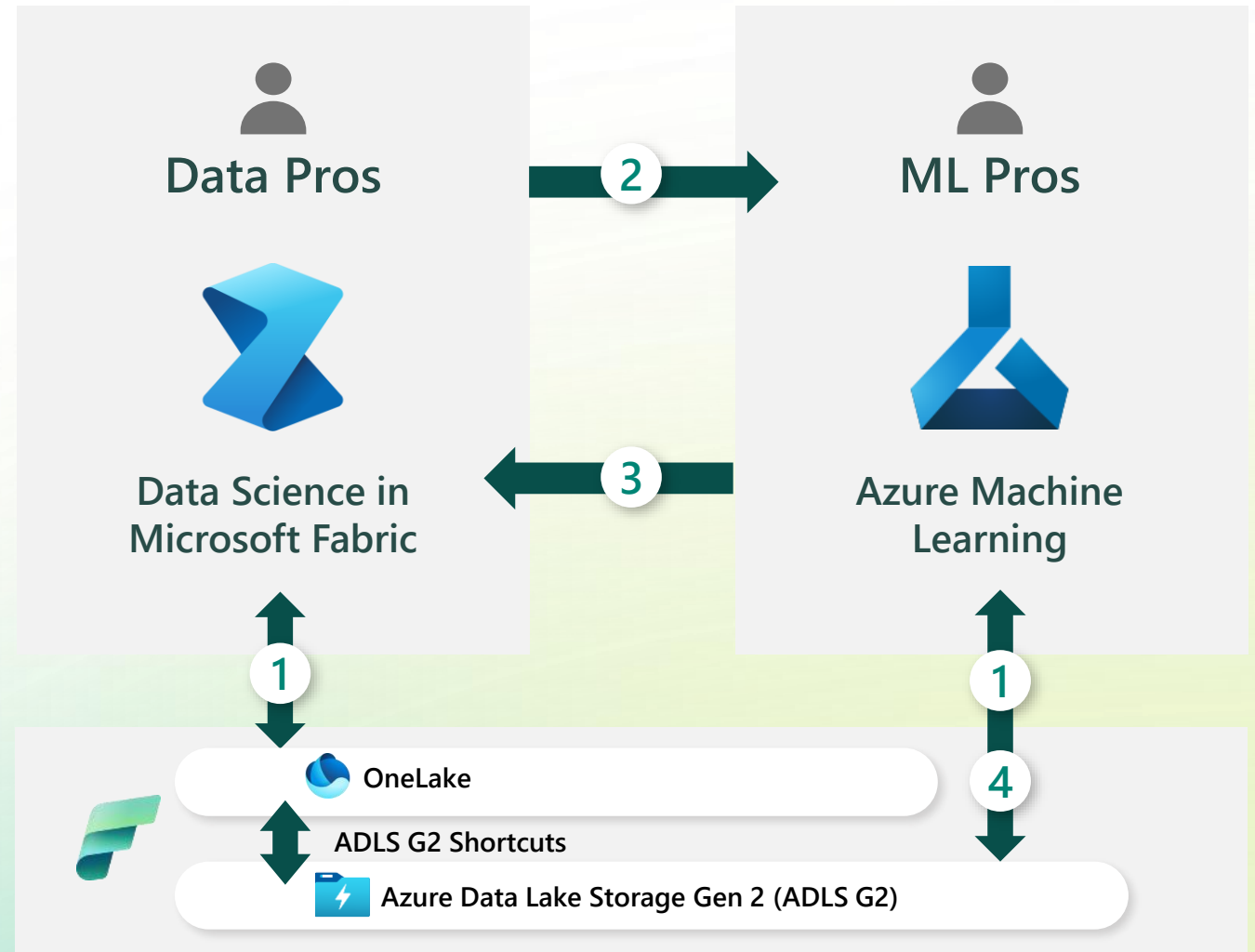
Ideal personas in your organization

Data Scientists, Data Engineers, Data Analysts

Key capabilities

- Data prep and code generation with Data Wrangler
- Enrich data in your Lakehouse with scalable PREDICT function
- ML model building and training with SynapseML (simple and distributed ML for Spark) with open-source libraries and 1P Azure AI services
- Serving predictive insights through BI

AzureML & Fabric: 1000ft view of product integration

1 Data Pros and ML Pros access data items across all stages of the ML lifecycle by reading from and writing to OneLake. ADLS Gen 2 Shortcuts to OneLake can be used reference data from ADLS Gen 2 into OneLake.

2 Data Pros can train with Spark and access ML models in Fabric and deploy models using AzureML online and batch endpoints for production.

3 ML Pros can export models from AzureML to Fabric to enrich lakehouse or data warehouse serving data as part of analytics workflows.

4 Write predictions back to OneLake via Shortcuts to ADLS Gen2 and surface insights through PBI reports with Direct Lake mode.

Data Pros

2 →

ML Pros

Data Science in Microsoft Fabric

← **3**

Azure Machine Learning

1

1

OneLake

ADLS G2 Shortcuts

4

Azure Data Lake Storage Gen 2 (ADLS G2)

Module 6 – Data Science

○ Goals: Use notebooks to build an ML model predicting the stock prices.

○ Using the library Prophet, data will be analyzed allowing for future predictions. These predictions will be stored in the lakehouse and integrated into the reports.
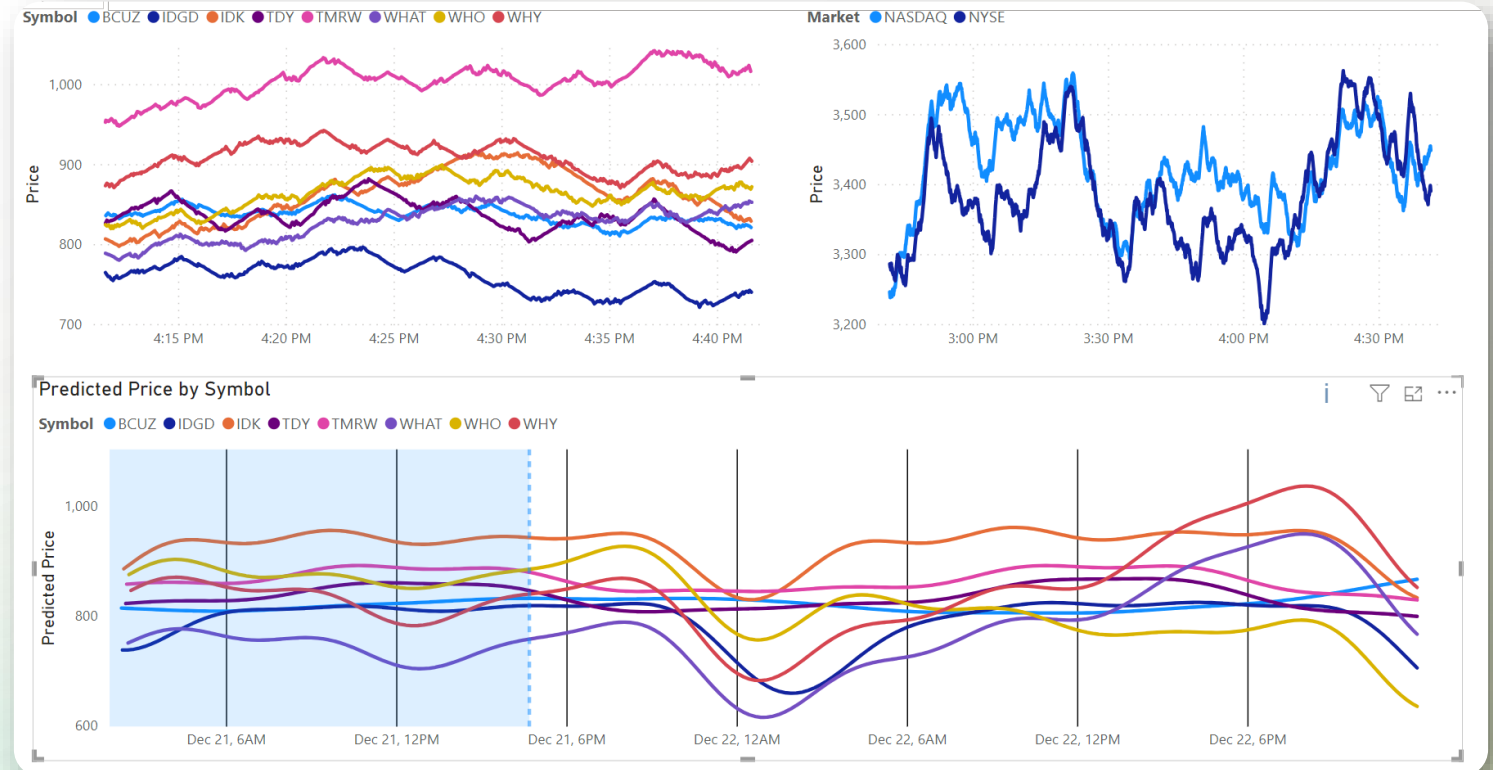
Module 4 – Data Warehouse

○ **Goals:** Build a dimensional model and data pipeline that stores aggregated data into a data warehouse.

○ Using the data warehousing capability, the data will be periodically loaded and summarized into a data warehouse for historic reporting. To accomplish this, we'll use data pipelines for orchestration of an ETL pipeline.
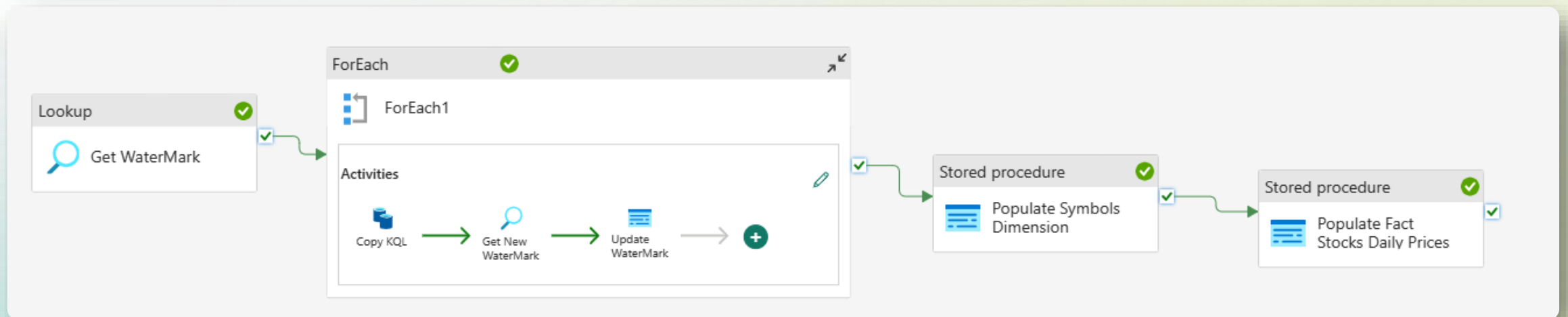
Module 5 – Data Lakehouse

○ **Goals:** Create a data lakehouse using data wrangler, notebooks, and Delta tables.

○ After modifying the Eventstream to copy data to the lakehouse, notebooks and data wrangler will be used to aggregate the data into tables that can be used for reporting and data science.
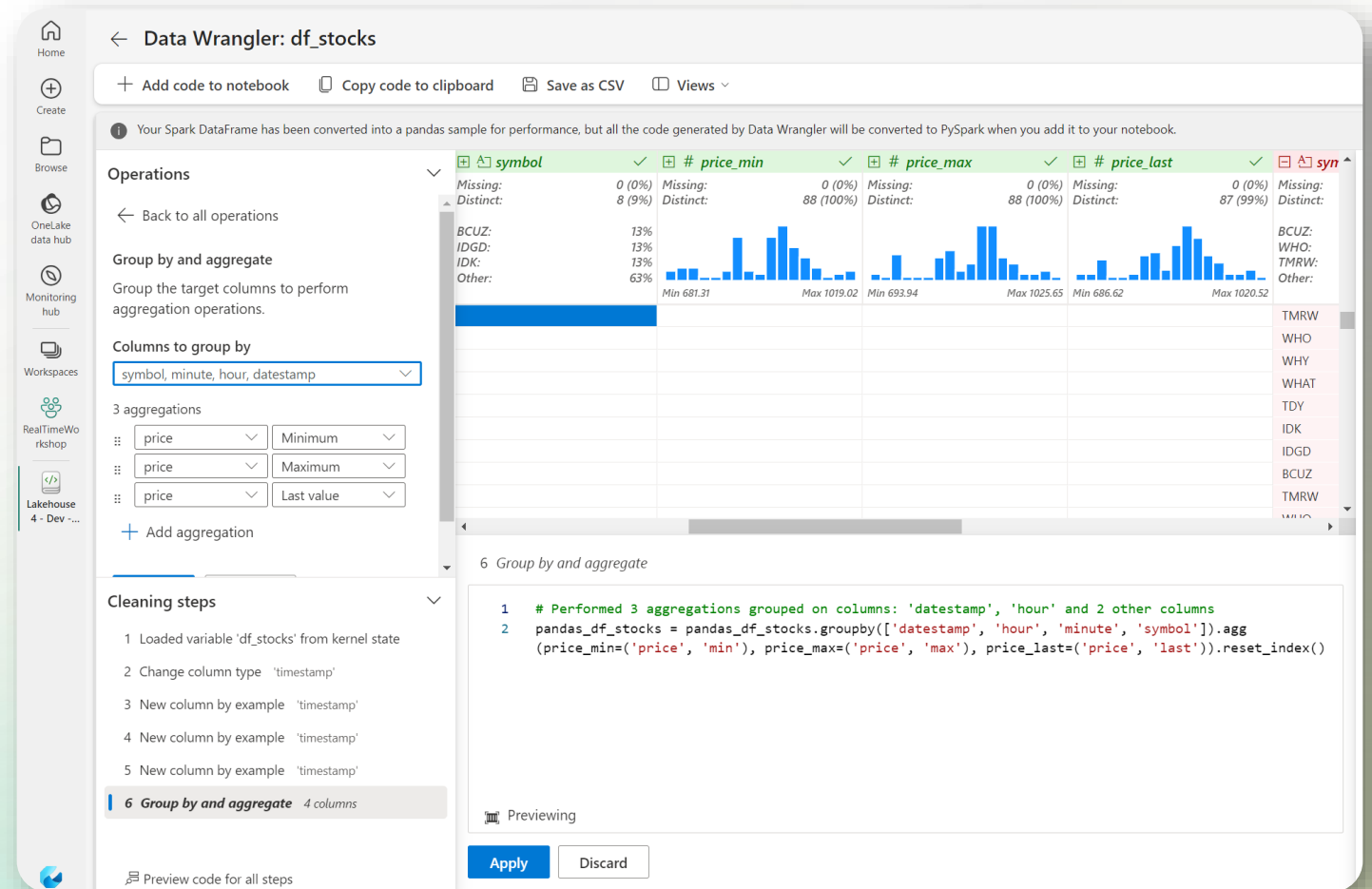
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Wrap-up, Q&A, & Feedback

Wrap-up

Thank you for attending! Check out the additional challenges throughout the modules, and the Extras module with unique add-ons.

Comments or suggestions? Please let us know.

Get your questions answered in the Microsoft Fabric webinar series: https://aka.ms/fabric-webinar-series

See the latest announcements in the Microsoft Fabric blog site: https://aka.ms/fabric-tech-blog

Read the implementation guide: https://aka.ms/Getting-Started-eBook

Microsoft Fabric Community Resources

Community Call to Action

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Thank you