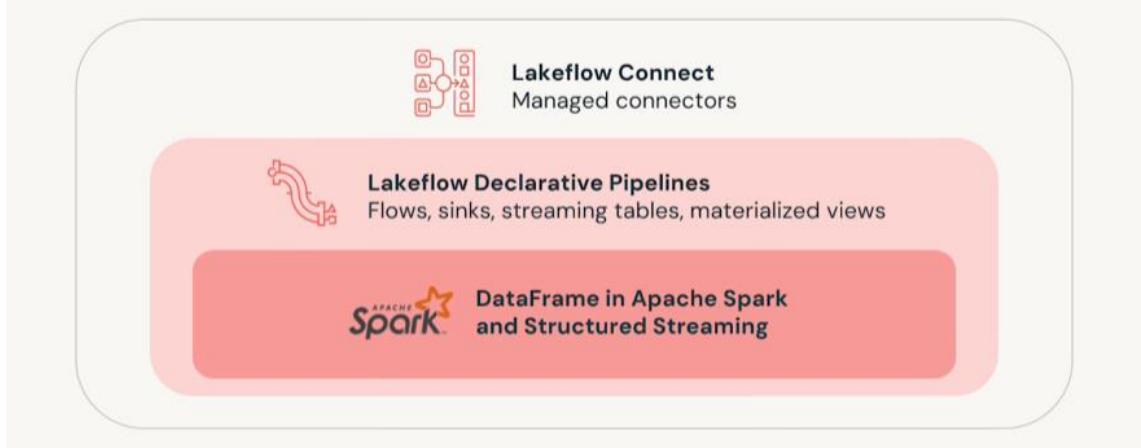


# Lakeflow connect and Auto CDC APIs

Next step generation of Autoloaders



**Structured Streaming**

**Declarative Pipelines**

**Fully managed connectors**

# Lakeflow

- Different levels of customization
- Structured Streaming is more customizable
- Lakeflow connectors are fully managed

# Structured Streaming

- Structured Streaming is an API for incremental stream processing in near real-time. It provides strong performance, scalability, and fault tolerance.
- Delta table streaming reads and writes
  - SCD1
  - SCD2

# Structured Streaming Demo

# Lakeflow declarative pipelines

- Lakeflow Spark Declarative Pipelines builds on Structured Streaming, offering a declarative framework for creating data pipelines. You can define the transformations to perform on your data, and Lakeflow Spark Declarative Pipelines manages orchestration, monitoring, data quality, errors, and more. Therefore, it offers more automation and less overhead than Structured Streaming.

Lakeflow  
Declarative  
pipelines  
Demo

# What is Lakeflow connect

Lakeflow Connect offers simple and efficient connectors to ingest data from local files, popular enterprise applications, databases, cloud storage, message buses, and more.



Option	Description
A fully-managed service	Out-of-the-box connectors that democratize data access with simple UIs and powerful APIs.
Fully-managed connectors	Fully-managed connectors build on Lakeflow Spark Declarative Pipelines, offering even more automation for the most popular data sources. They extend Lakeflow Spark Declarative Pipelines functionality to also include source-specific authentication, CDC, edge case handling, long-term API maintenance, automated retries, automated schema evolution, and so on. Therefore, they offer even more automation for any supported data sources.

# Lakeflow connect managed connectors

- Fully Managed schema evolution
- Lowers maintenance cost
- Lowers time to value



# Lakeflow Connector Demo