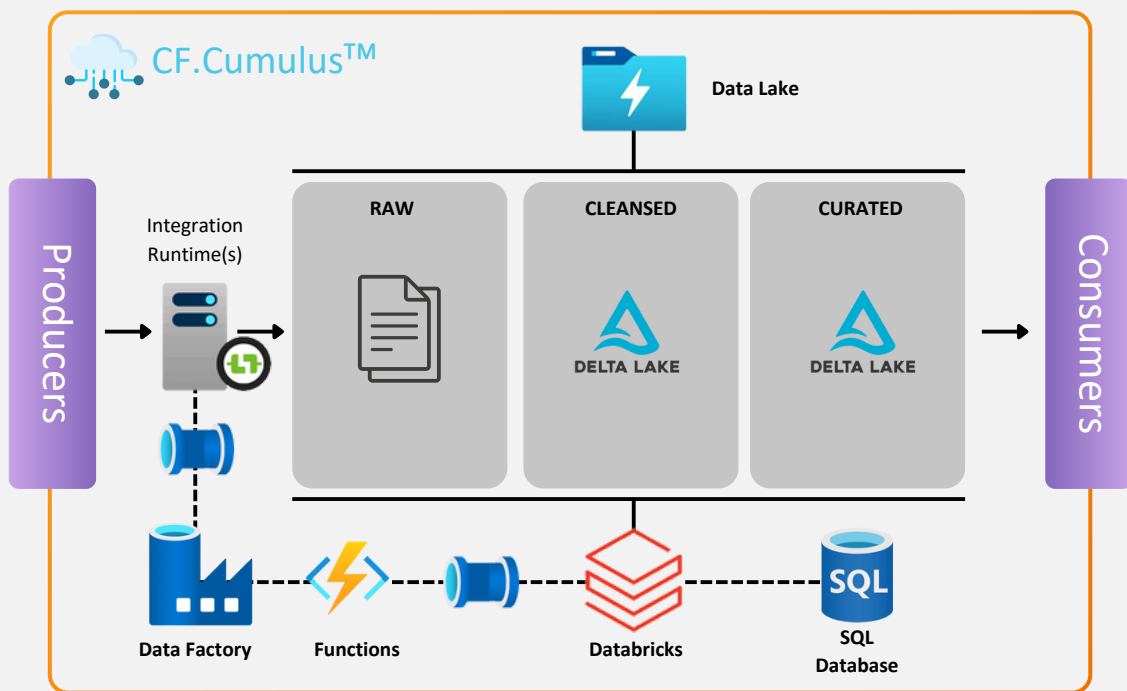


Implementing a Metadata-Driven Data Lakehouse on Azure with CF.Cumulus

Leveraging ready-to-go pipelines, connections and metadata to accelerate the delivery process of a cloud data platform



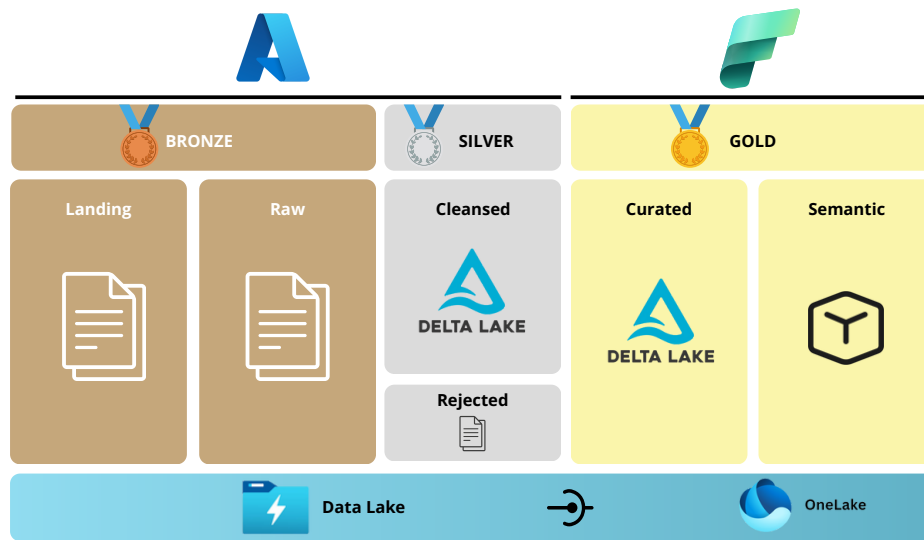
Cloud Formations utilised our open-source metadata-driven Lakehouse data platform accelerator, CF.Cumulus™, to rapidly ingest data from Oracle and Dynamics 365, leveraging Microsoft Analytics Platform technologies to deliver use cases for a large London based housing association.



Technologies

Using Microsoft Azure cloud native resources, a data mesh architecture is being designed using the following compute and storage components:





Solution Overview

Using the CF.Cumulus accelerator provided rapid deployment of a best practice Lakehouse data platform with seamless integration, meeting networking and governance requirements of the client. The pre-built product connections and out-of-the-box CF.Cumulus pipelines in Azure Data Factory saved weeks of development effort facilitating deeper collaboration with the client and enabling self-service of the platform.

Data is then served through Microsoft Fabric for a unified business user experience meeting the strategic ambitions of the organisation and enable consumers to explore and self-serve from trusted, curated datasets. The solution uses the best of all products to deliver a complete 'medallion architecture'.

Key Features

- Metadata-driven data ingestion framework
- Intelligent data loading through CDC logic and data load history
- Cost-efficient compute implementation for both development and production experiences
- Resilient and restartable orchestration pipelines



Outcome

The solution provided the business with:

- Datasets ingested from source with little configuration efforts by development team
- Repeatable framework and training provided to ingest additional data sources

Our Services

- Data Platform Design
- CF.Cumulus Deployment
- Technical Oversight
- Architecture Review
- End to End Training

Check out our website

