PROJECT OVERVIEW

1
2
3
4
5

BUSINESS SCENARIO

Business Case for the project

SOLUTION REQUIREMENTS

Solution needs of the business

ARCHITECTURAL PATTERN

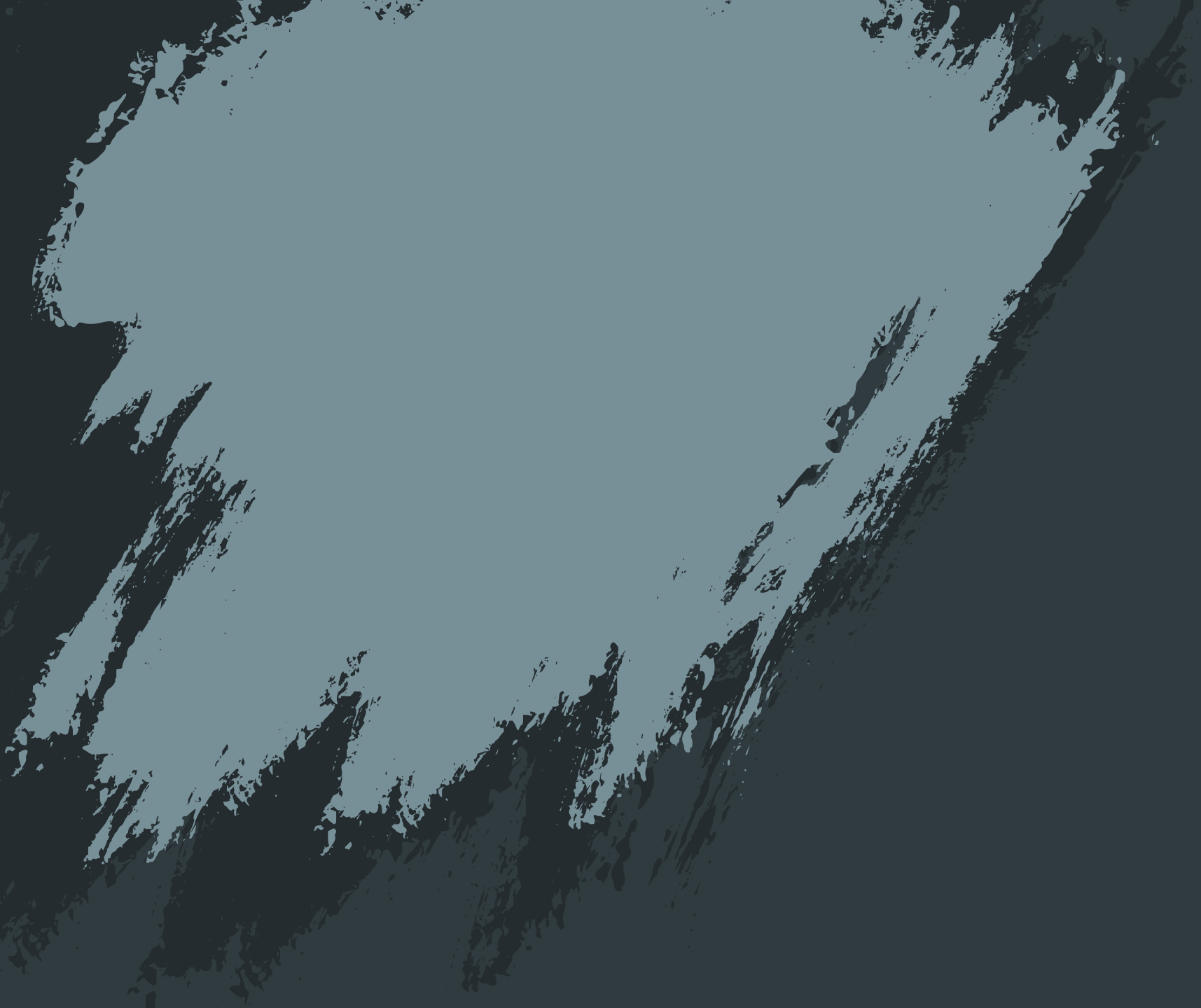
Architectural pattern for an analytics solution

HANDS-ON PROJECT ARCHITECTURE

Architecture for the Hands-On Project

REPOSITORIES

Review of the project repositories



SECTION 1

BUSINESS SCENARIO

BUSINESS OVERVIEW OF VINO WORLD

01

HISTORY

Vino World - Italian Wine Retailer

- *3 Online Stores opened 1 year ago on different Websites*

- *Arancione sells wines with a score > 95*
- *Verde sells wines with a score Between 90 and 95*
- *Celeste sells wines with a score Between 85 and 89*

BUSINESS SCENARIO

Business challenge for Vino World

02

ANALYTICS

- Lack of an Analytics System
- Online sites provide monthly sales data in different formats
- Integrating data and deriving insights takes a lot of time

- Which Products sell the most?
- Which stores contribute the most?
- Do Vintage and Score influence sales?

SALES ANALYSIS

03

04

PRODUCT CATEGORY

- Which type of wine, vintage, and score should we focus on?
- Which type of store products should we focus on?
- Which province‘s wines should we focus on?

SECTION 2

SOLUTION REQUIREMENTS

SOLUTION REQUIREMENTS

What kind of solution Vino World needs?

05

NO ON-PREMISE INFRASTRUCTURE

ANALYTIC DASHBOARDS

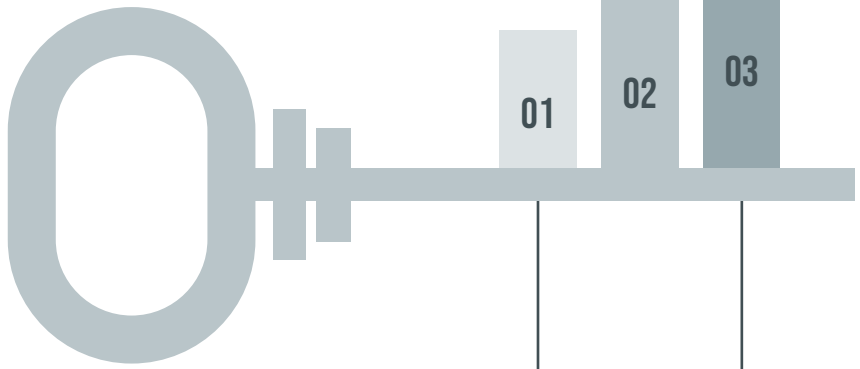
NO SOFTWARE MANAGEMENT

LOW CODE / NO CODE

DATA INTEGRATION

SOLUTION REQUIREMENTS

Keys to the solution



AZURE DATA FACTORY

Low Code / No Code

Data Integration with multiple sources

Automated / Easily extensible

AZURE CLOUD

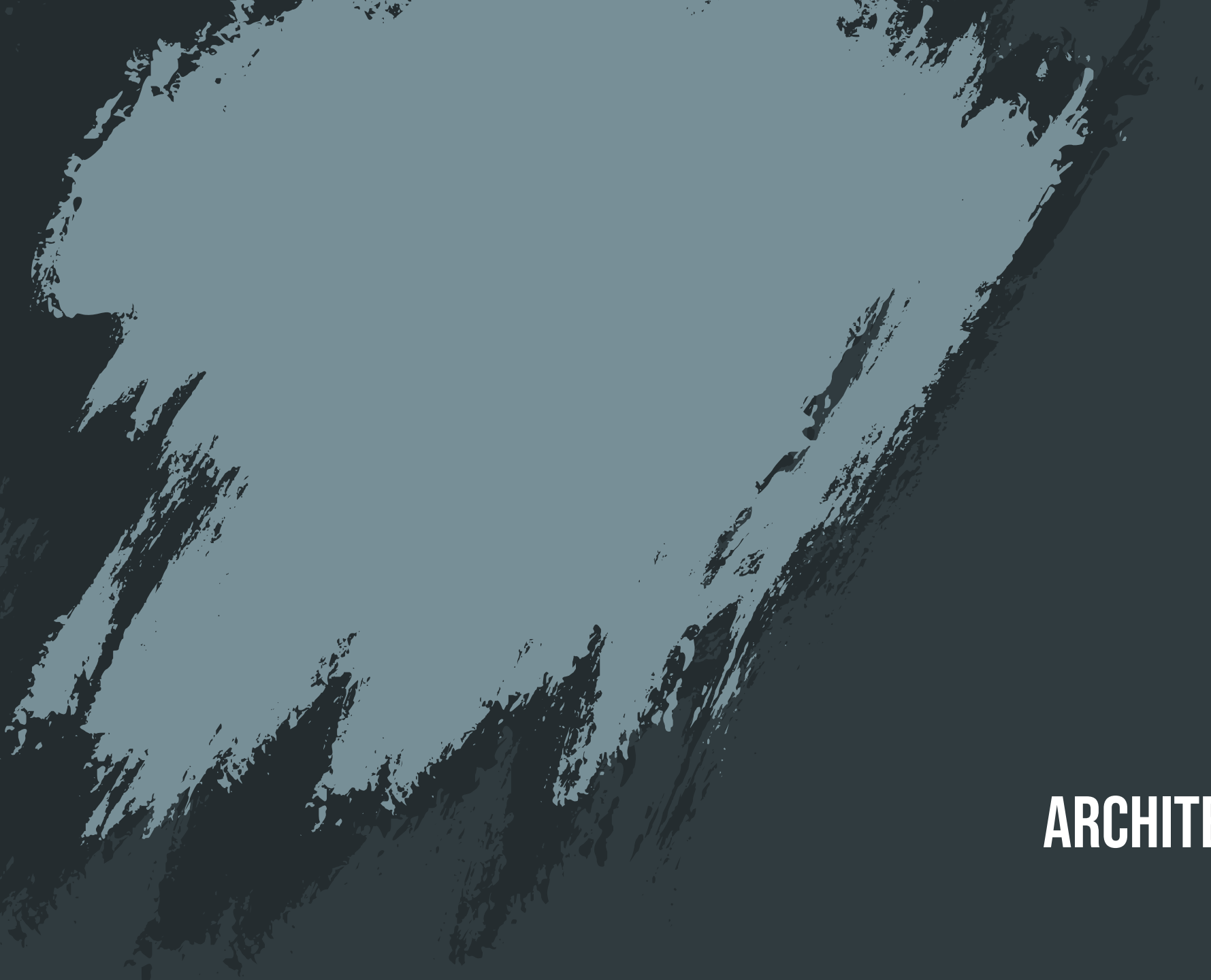
No On-Premise Infrastructure

No Software Installation and Management

AZURE SQL DB / POWERBI

Datawarehouse for consolidate data

Dashboards for Analytics

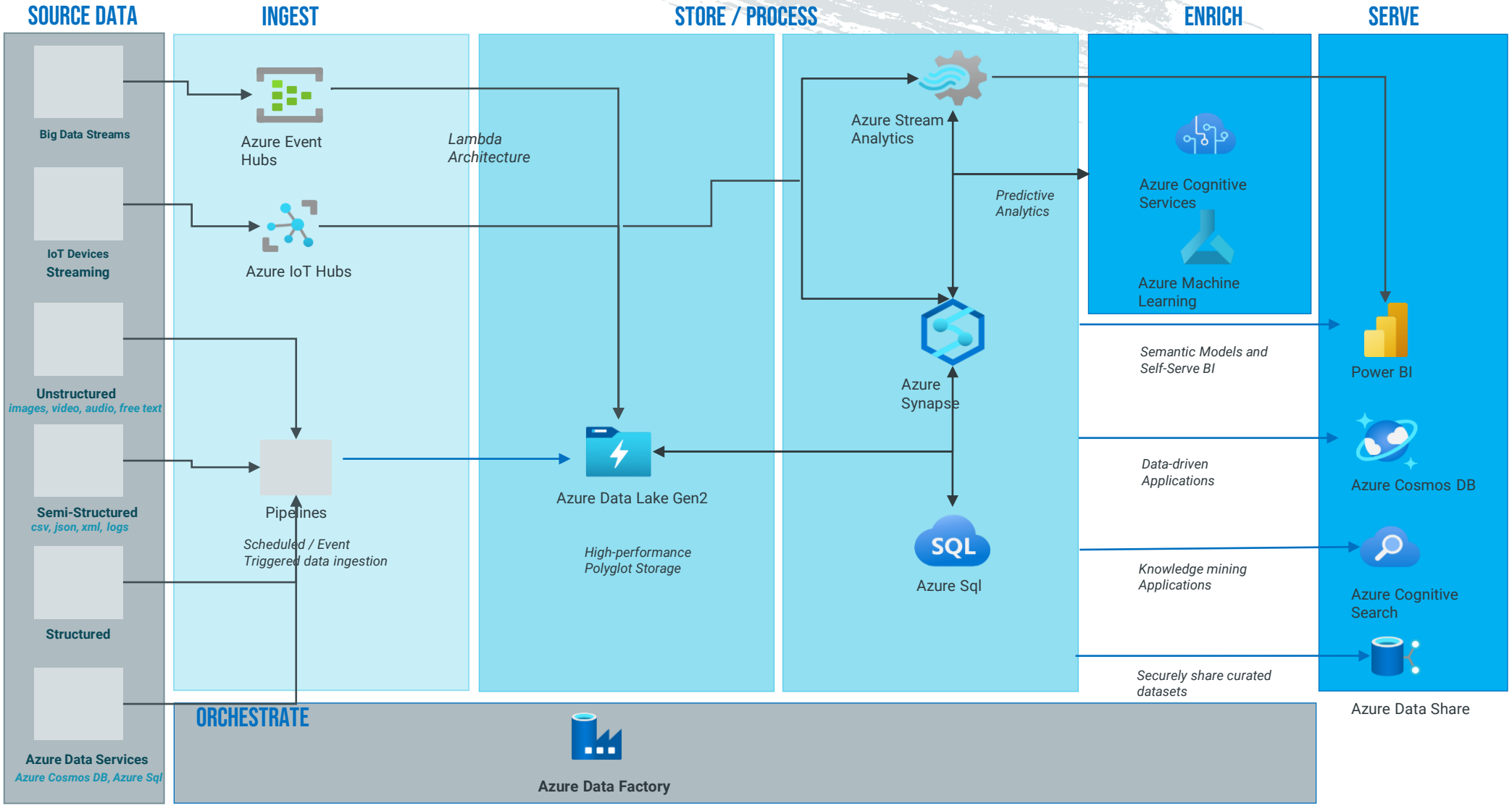


SECTION 3

ARCHITECTURAL PATTERNS

ARCHITECTURAL PATTERNS

Architectural Pattern for an Analytics Solution

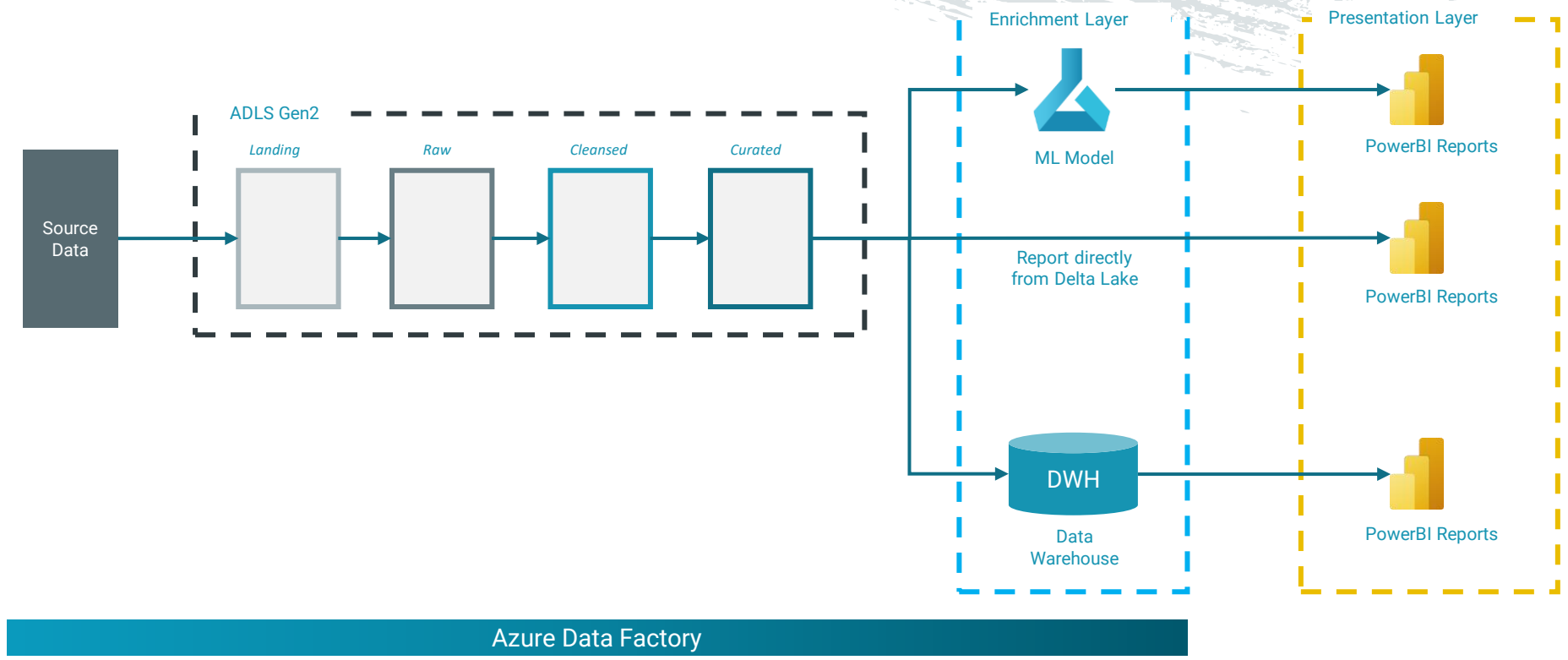


SECTION 4

HANDS-ON PROJECT ARCHITECTURE

ARCHITECTURE

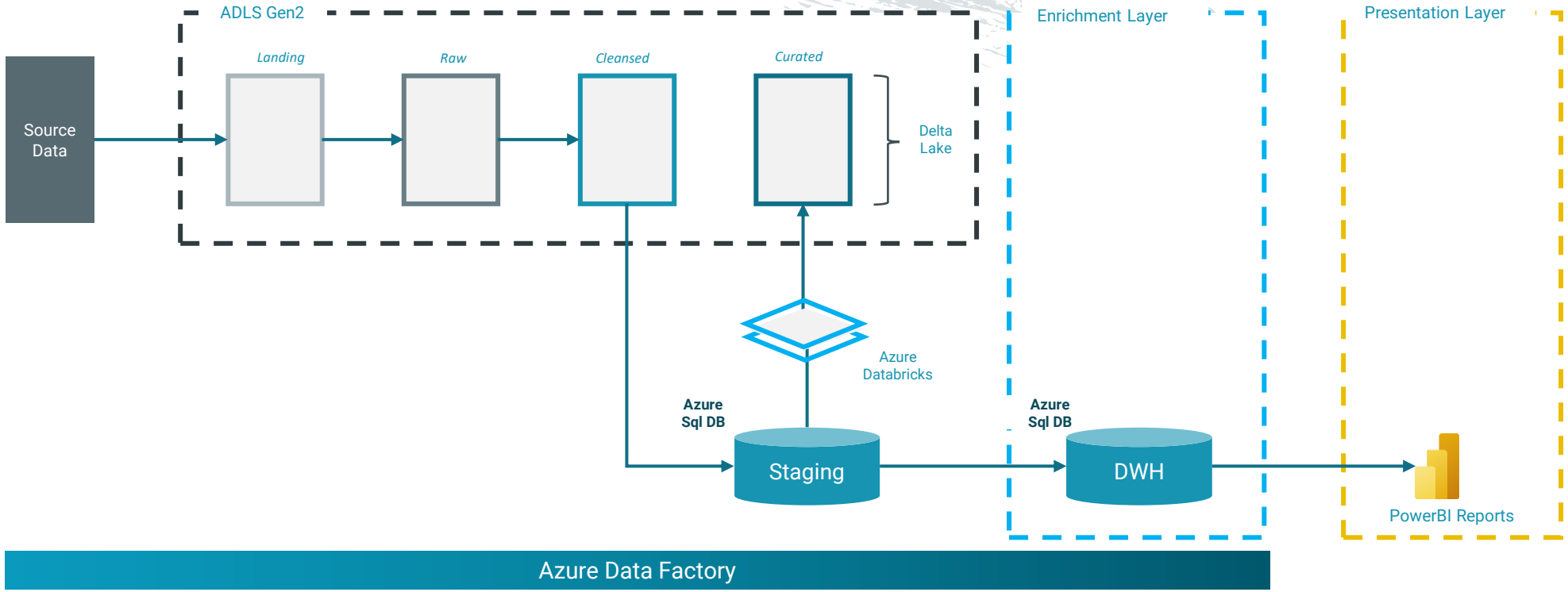
Typical Modern Data Warehouse Architecture



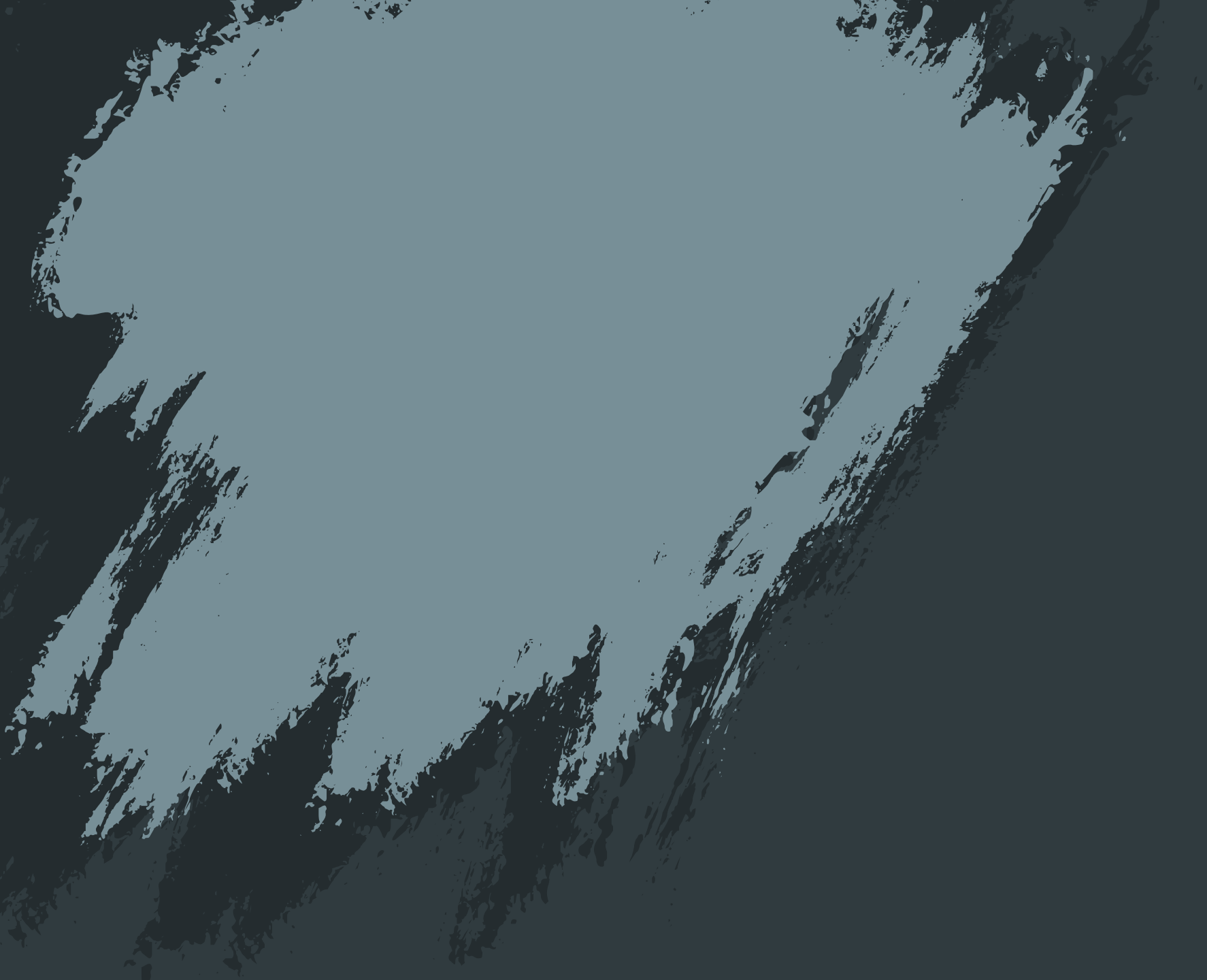
Typical Modern Data Warehouse Architecture with medallion layers for data refinement with Azure Components

HANDS-ON PROJECT

Architecture of Hands-on Project



What we will build in this course



SECTION 5

REPOSITORIES

REPOSITORIES

Code and Sample Data Repositories for this course

Materials for this course are available in the Git Repository

- https://github.com/aravindsuri/ADFTutorial

Here you will find:

- Sample data required for building the hands-on project
- Relevant PDF documents useful for the course
- Sql Scripts for building the Tables
- Python Notebooks
- ARM Scripts

MODULE SUMMARY

In this module we learnt

OVERVIEW

Overview of the Business and the challenges the business faces

The solution requirements of the business

ARCHITECTURE

We learnt about the typical architectural pattern for an Analytics solution

The architecture for the hands-on project

REPOSITORIES

We learnt about the available repositories for this course

REFERENCES

Modern Data Warehouse for small and medium businesses

Modern data warehouse for small and medium business - Azure Architecture Center | Microsoft Learn

Azure Data Architecture Guide

Azure Data Architecture Guide - Azure Architecture Center | Microsoft Learn

Data Warehousing in Microsoft Azure

Data warehousing in Microsoft Azure - Azure Architecture Center | Microsoft Learn