

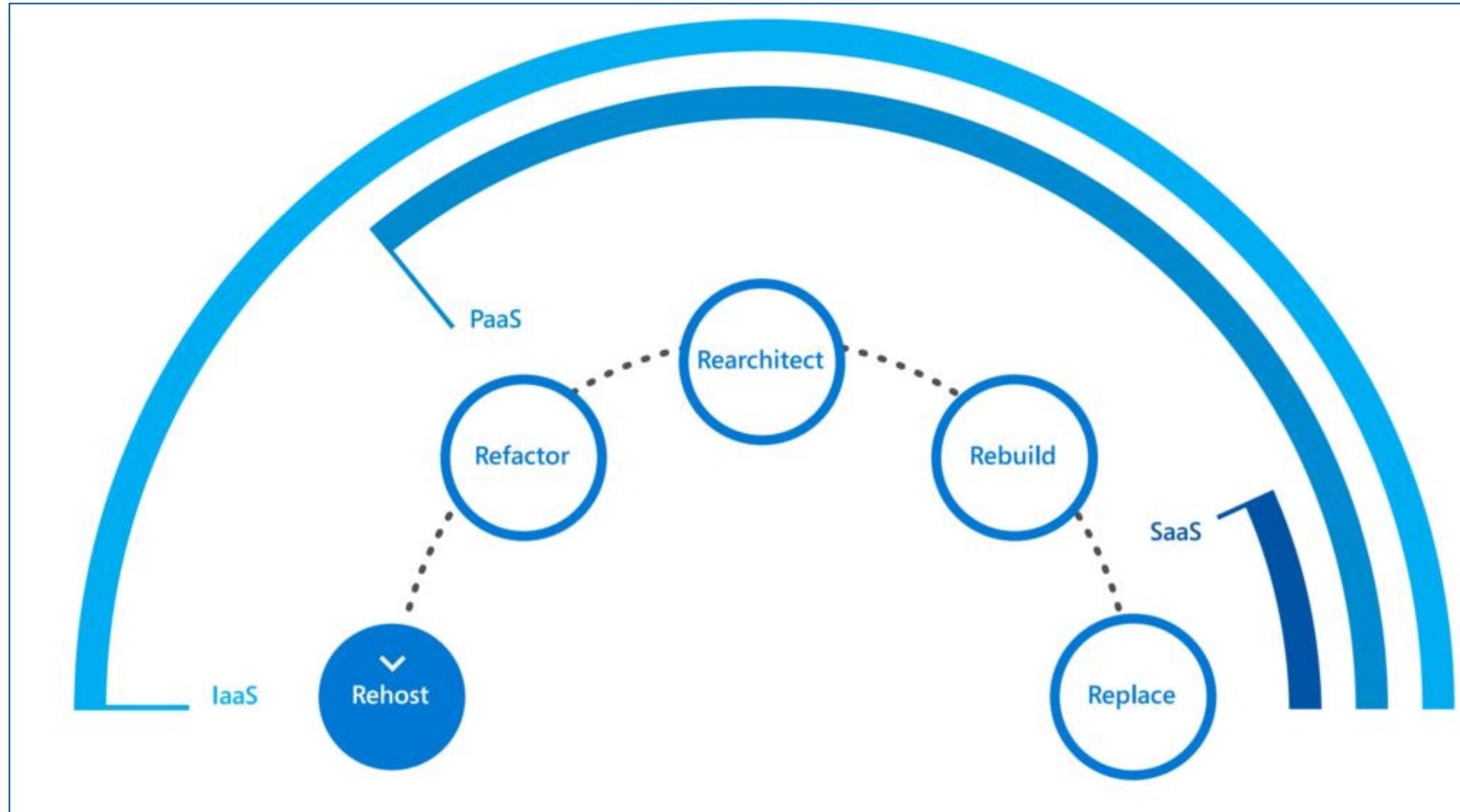
LUXEMBOURG

From SQL On-Premises to the Cloud

Making the Move to Azure

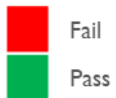
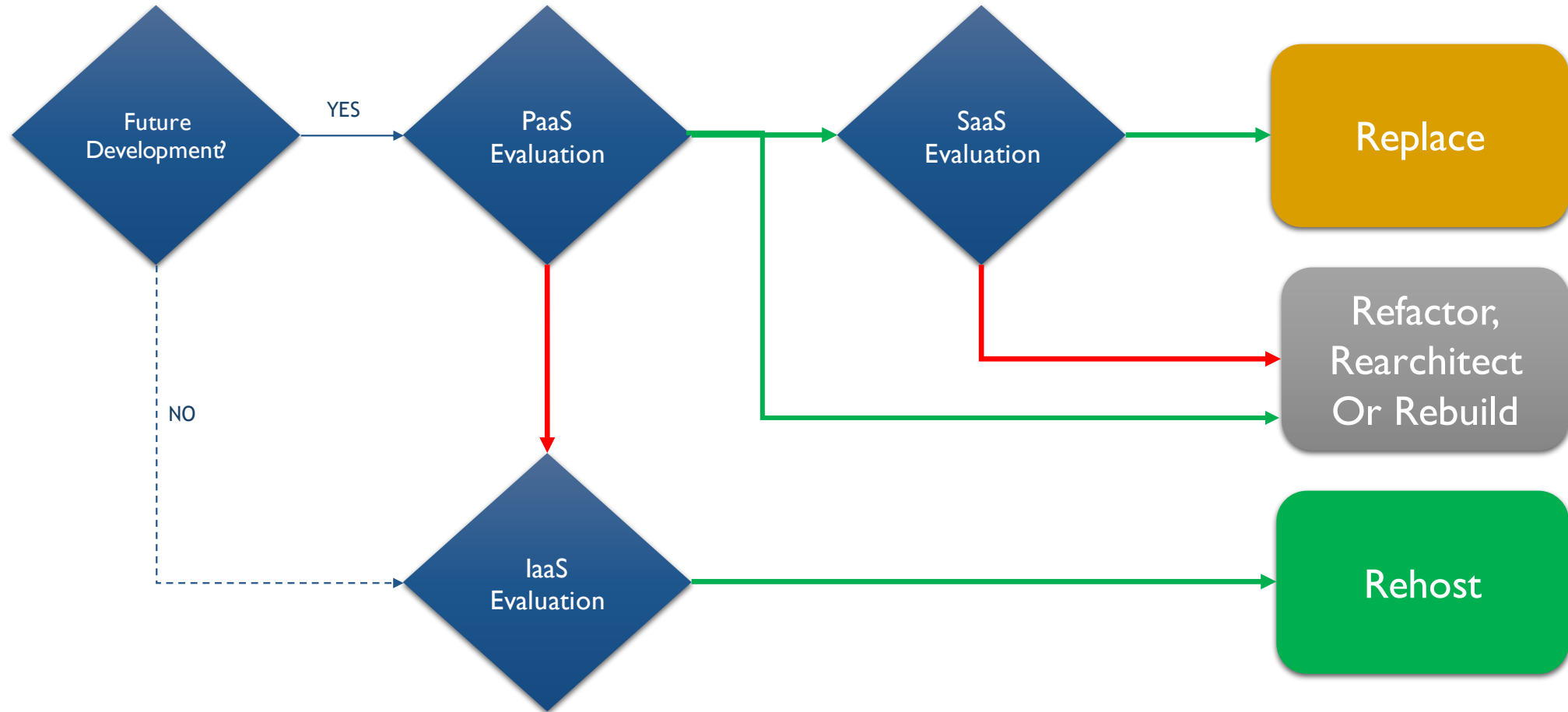
**Azure Database Migration
Service for SQL on-premises
Migration**

Strategies for Migrating to Azure



*Migration Strategies

Strategies for Migration: Defining Your Best Option



*Migration Process Decision

Key Phases of a Data Migration Process



Evaluate the needs

Create a migration plans

Evaluate the costs

Evaluate the resource needed
(CPU, memory & storage)

Migration plan

Choose the type of migration

Configure cloud environment

Migration of the server

Migration of the data

Migration of the analytical tools

Optimize the costs

Review schedule process

Reinvest time and resources no
longer used

Get to know the security in
Azure : user management,
access,...

Discover tools : Azure Key Vault,
Azure Sentinel, Microsoft
Security,...

Put measure in place :
encryption, backups, disaster
recovery

Monitor performance of traffic
and compute

Refactor / Repackage

Scenario: Moving an application to Azure with some code changes but not a major overhaul of the application.

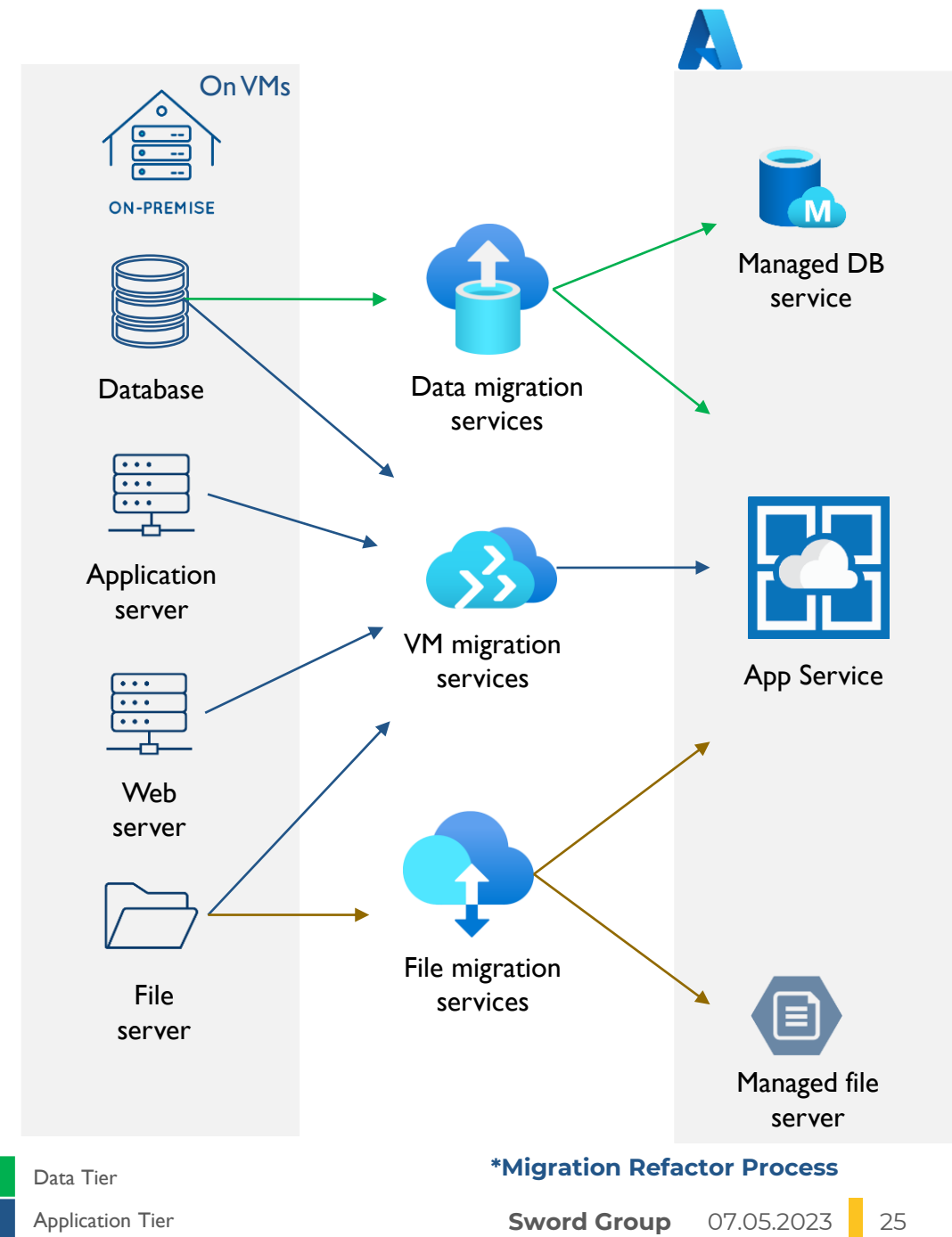
Suitable for: Sensitive and business-critical applications where disruption of ongoing functionality is a concern, but there is a need to modernize or improve infrastructure.

✓ Fast and relatively easy, but lets you improve your infrastructure.

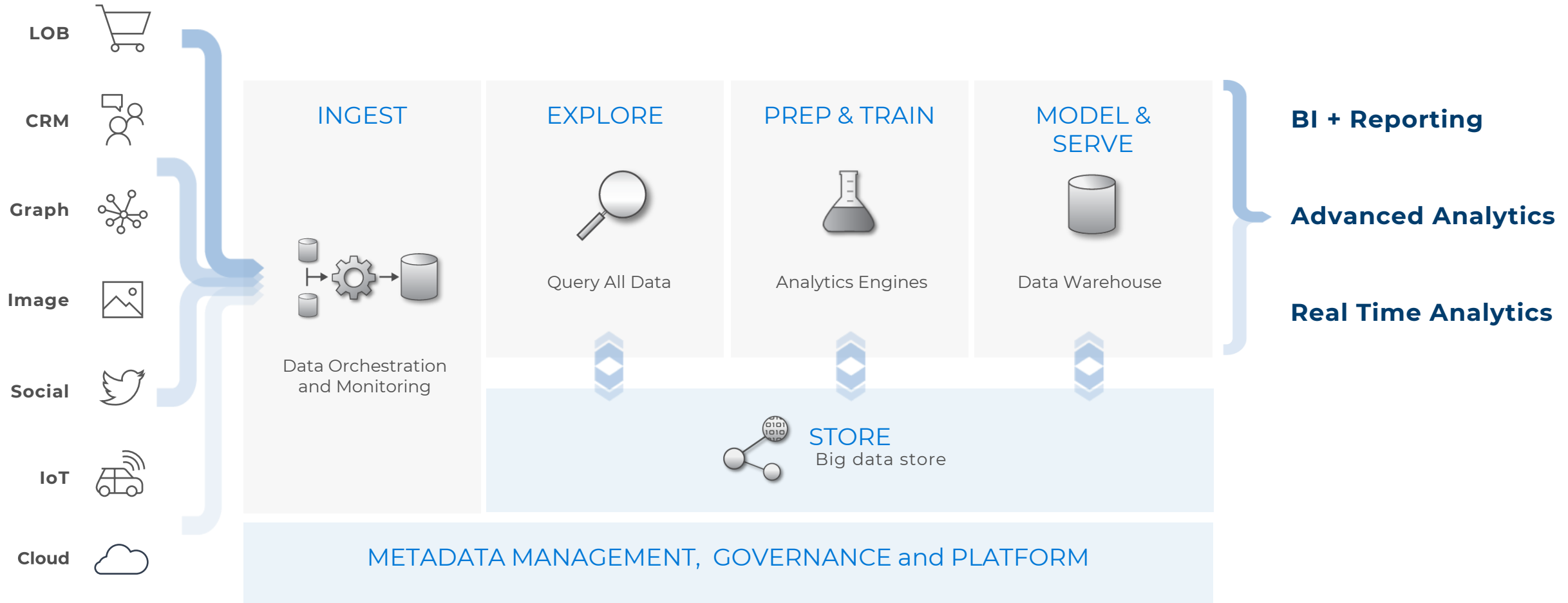
✗ Cannot make major architectural changes

Steps to refactor SQL Server to Azure:

1. Analyze the codebase.
2. Creation of a plan for migrating prepare a backup.
3. Update the codebase, the database connection code, queries, stored procedure, ...
4. Testing phase



Essential Modern Data Warehouse Architecture Basics



*Modern Data Warehouse – Logical Architecture