Data Modernization Practice
Automated Data Migration to Azure

bitwise

Data Platform Cloud Modernization Suite

**End-to-End solution comprised of Bitwise Automation Tools, Frameworks and Experience
to accelerate migration of Data Warehouse and Business Intelligence to Cloud Platform**

ETL/ELT Modernization Practice

End-to-end migration methodology with automation at every phase

Accelerators
- Automated Source ETL/ELT Analyzer
- Automated ETL/ELT Converter
- ETL/ELT Validation Framework

Data Migration Practice

Systematic approach for accelerated and seamless data warehouse migration

Accelerators
- Database Object Analyzer
- Database Object Converter
- Data Migration Framework
- CDC Framework
- Data Validation Framework

AIML & Generative AI Practice

Leverage machine learning algorithms, statistical analysis and deep learning for delivering predictive and NLP solutions. Harness the power of Generative AI to revolutionize migration & modernization projects.

Accelerators
- Code Optimizer
- Code Documenter
- Code Converter

BI Modernization Practice

Migration framework to efficiently re-engineer legacy BI reporting in the cloud

Accelerators
- BI Migration Framework

Data Governance Practice

Successful cloud migrations start with a Cloud Data Strategy focused on data governance and data quality. Bitwise helps develop and implement the right strategy and tools for driving successful business outcomes with data.
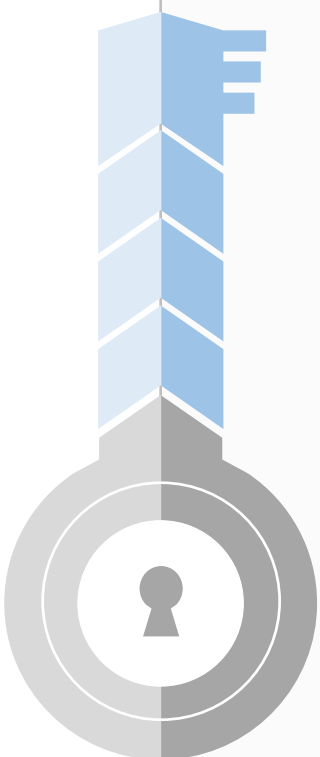
Data Engineering Practice

With Bitwise Data Engineering Practice, we assess your existing environment and assist you to select appropriate cloud data platform, architecture and tool set to take full advantage of the target cloud platforms with state-of-the-art frameworks, best practices and expertise along with in-house accelerators to seamlessly convert, optimize, and comprehensively document data engineering workloads using Large Language Models that deliver value for your stakeholders.
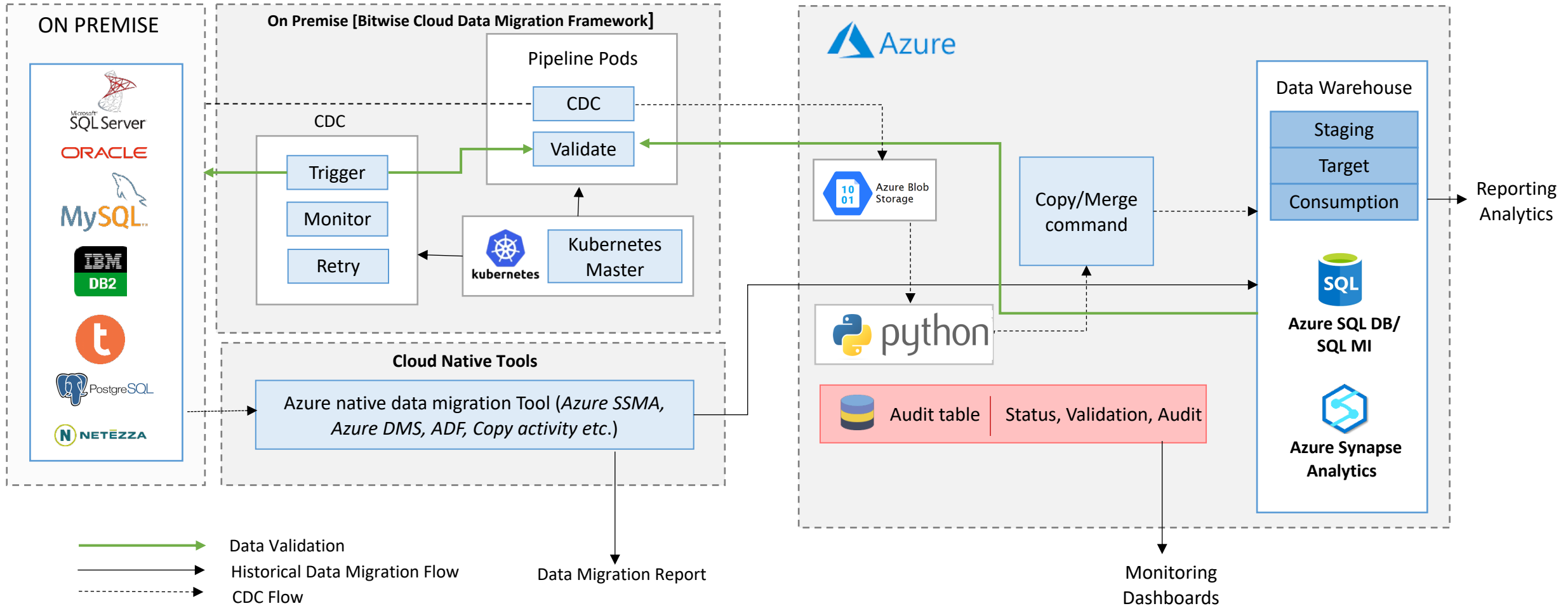
Data Migration Framework

Data Migration Framework leverages cloud native migration tools, data ingestion tools complimented by Bitwise Data Migration utilities for Data Validation etc. to seamlessly migrate Data to the Cloud.

Key Features

- Achieving cloud data migration is possible through various approaches, including:
  - Cloud ETL Tools (ADF)
  - Cloud Native Data Migration Offering (SSMA, Azure DMS etc.)
  - Copy Activity
- Bitwise tailors its selection of these approaches based on the distinct requirements of individual customer scenarios.
- We employ a data validation accelerator driven by Python to ensure thorough schema and data validation, thereby enhancing the migration process.
- Our Bitwise Change Data Capture accelerator can be leveraged for migration of incremental loads wherever the cloud native migration tools lacks CDC feature.

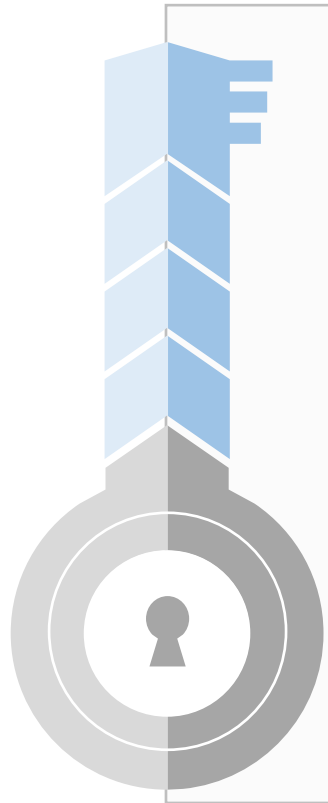# Data Migration Framework – Using Azure Native Services
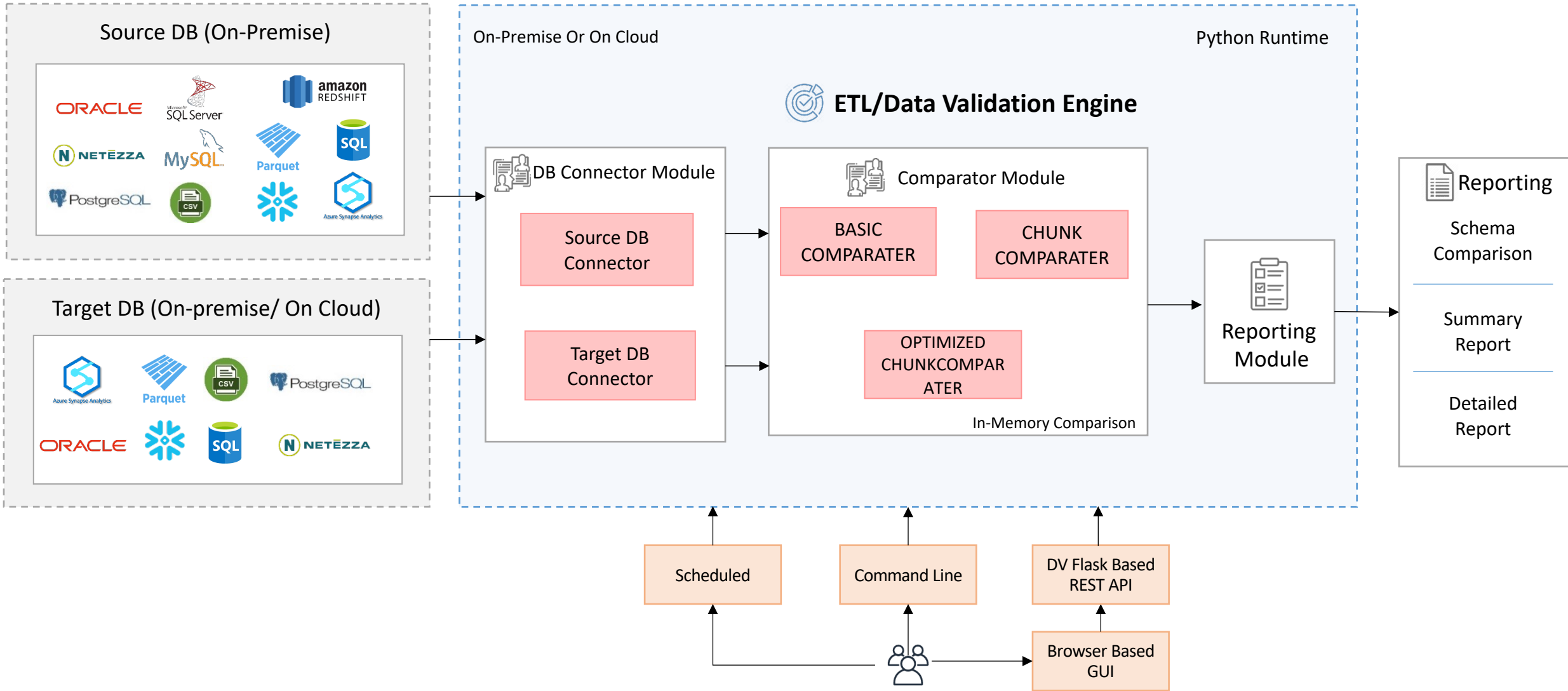
ETL/Data Validation Accelerator

Python based automated validation utility which helps to perform Schema and Data validation during ETL migration from source to target, also can be leveraged for Stored Procedure, View, MV migration testing.

Key Features

- Automate Testing of **Relational**, **Flat Files**, **NoSQL**, Cloud **Databases**.
- Support for **Full** and **Sample** Validation.
- Support **Schema** Validation
- High **Performance** and highly **Scalable**.
- Support for **Multiple database**.
- **Comprehensive** comparison and summary **report**
- Support **Manual** or **Scheduled** execution
- **GUI**, **Command Line** Interface
- Easy Integration with any **CI/CD tools** and **schedulers**
- **Platform agnostic** (can be hosted on Windows, Linux, On-premises or Cloud)
- **Minimal** System Requirements.

ETL/Data Validation Accelerator - Architecture

Thank You!

Inquiries?

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