

Business Case

A Global Research and Advisory Company is in a journey to migrate data from on-premise applications to Azure to maintain and enhance its EDW, reporting and analytics applications in order to provide accurate and timely data to users and ensure data availability for Reporting and BI functions.

Client Challenges / Requirement

- Limited capacity to convert legacy ETL code from Informatica jobs and PL/SQL procedures to Azure Data Factory (ADF) on Azure within defined timeframe.
- Over 800 Informatica jobs to convert to ADF.
- Over 300 PL/SQL procedures to convert to T-SQL.
- Need to match Orchestration features and functionality in ADF.

Bitwise Solution

Bitwise migration services using proprietary automated ETL Conversion solution and PL/SQL script analyzer and workflow solution to accelerate migration timeline within budget requirements.

- Conversion completed over 3 iterations to accelerate time-to-production.
- Build a custom scheduler for ADF pipelines on Azure to meet the features/functionality provided by DAC for the implementation.
- Bitwise utility that reads ARM templates from a directory and provides individual ARM templates for each resource of type pipeline, dataflow or dataset in a folder structure similar to Bitbucket repository.
- Bitwise utility that adds a standard web activity to multiple pipelines by directly updating the pipelines in ADF.

Tools & Technology

- Bitwise ETL Converter
- Informatica PowerCenter
- PL/SQL
- Azure Data Factory (ADF)
- T-SQL

Key Results

- 1 hour effort savings per ADF pipeline using Bitwise utility for ARM template splitting
- 0.5 effort savings per ADF pipeline using Bitwise utility for adding activity to pipelines in ADF
- Fully converted and unit tested code delivered with ~40% overall time efficiency

About Bitwise

Bitwise delivers technology solutions that leverage data to enable business insights. By deploying our breakthrough technology innovations, we help our global clients maximize their competitive advantage. We are the industry's most experienced and dedicated team of data professionals, focusing on Data Warehousing, Business Intelligence, Analytics, Big Data, Cloud Computing, QA Testing and Web/Mobile Application Development. We optimize value for our clients through our global-delivery model and with our proprietary technology tools that reduce the time, complexity, and cost of data initiatives. Together, our people and technology provide the insights clients need to continue to lead their fields. Bitwise is headquartered in Chicago, USA with office London, UK and delivery centers in Pune, India.