

# Enterprise Data Warehouse to BigQuery Migration

## Smart Analytics

### Overview

Migrate your existing data warehouse workloads to BigQuery with the help of Google Cloud's experts. We advise and guide you on best practices for the architectural design and migration, as well as oversee the execution of the migration plan.

### Key activities



- **Google Cloud Platform data architecture deep-dive workshop**  
Review data architecture on Google Cloud Platform concepts, options, considerations, and objectives to enable your team to make informed decisions on the right approach for your organization.
- **EDW workloads inventory and assessment**  
Conduct high-level analysis and document pertinent details of your existing EDW workloads, associated business and technical use cases, and key functional and nonfunctional requirements. Perform a ranking exercise on known workloads against cost and complexity.
- **Critical data sources inventory**  
Review all existing current and future state data integration points and assess criticality for up to three initial workloads targeted for the first iteration of your migration.
- **Architecture and design discussion**  
Facilitate a discussion focused on sharing your team's best practices and arriving at your key decision points on how to design and deploy your EDW modernization target(s) onto Google Cloud Platform cloud. Work through design considerations for your organization on implementation topics such as data storage (both object and tabular data), data modeling and schema design, ETL / ELT pipelines, job orchestration, logging and monitoring, dataflow job creation and templating, and error handling.
- **Recommendations**  
Capture and share recommendations around new or adjusted practices, common obstacles or challenges to avoid, and other key considerations for determining an initial workload and subsequent workloads targeted for migration.

## Deliverables



- **Project charter** - the goals agreed on with key stakeholders, and expected outcomes of the migration program
- **Deployment progress reports** - reports on migration status at the beginning, middle, and end of the engagement
- **Technical assessment report** - aggregation of data and subsequent analysis of your existing EDW information into an actionable artifact to drive modernization efforts
- **Reference architecture** - reference architecture and high-level design documents depicting the solution recommended by Google Cloud PSO to support the iterative, scalable migration of existing EDW
- **Initial migration plan** - a plan depicting next steps and a recommended approach for delivery of initial iteration of the migration

## Engagement and details



- Prerequisites: Cloud Foundations
- The timeframe for the engagement is dependent on project scope and agreed upon in the project charter
- The typical team consists of cloud consultants and subject matter experts with technical expertise based on your specific needs
- Work can be performed onsite or offsite at your discretion
- Your team will provide business decision makers, data stewards and technical SMEs with knowledge of existing EDW implementation(s)
- Your team will provide technical subject matter experts and data stewards with knowledge of your existing EDW implementation(s) and access to Google Cloud Platform resources required throughout the engagement

