

Takeoff Data Migration

SoftServe incorporated a group of team members into Takeoff's data lake and BI teams, where they worked together in alignment with Takeoff's processes governance. SoftServe facilitated an end-to-end migration flow from Snowflake to GCP.

The challenge

Takeoff needed to build a brand new DataOps-driven data platform on GCP based on site reliability engineering best practices while preserving the same functional requirements of the Snowflake data warehouse. Takeoff wanted to improve operational efficiency of the new data platform, automate all the processes as much as possible, have service level objectives for data maintaining data quality.

The solution

The team implemented data ingestion and processing logic into a new GCP environment using the latest best practices. Monitoring services and metrics were put in place to control the new platform's stability, guaranteeing service level objectives.

The results

Decreased total cost of ownership by switching to the latest GCP tools. Deployment process is fully automated in GitHub Workflows to optimize processes. Historical data were successfully migrated from Snowflake into GCP BigQuery. Data lakehouse is controlled by an infrastructure-as-code approach using Terraform and an on-call process based on 5-level severities Opsgenie alerts.

“(SoftServe’s project leaders) did an amazing job understanding our needs (...) always making sure to surface questions and concerns in a timely manner to de-risk unexpected issues in our migration. (The team) designed an elegant data architecture solution that both met our business needs and allowed for maximum scale with minimal effort. (...)” David Chang, Director of Engineering, Big Data Domain



About Takeoff Technologies, Inc.

Takeoff Technologies is eGrocery solutions, including hardware, cloud orchestration, industrial AI, data-driven analytics, partnership & support, all together aiming to streamline the retail automation. Core service is Micro Fulfilment Center.

Industry: Software & Internet

Primary project location: United States

softserve

About Softserve Inc.

SoftServe is a digital authority that advises and provides solutions at the cutting-edge of technology.



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