INDUSTRY

Media & Entertainment

TECHNOLOGIES

Google Cloud Platform, Google BigQuery, Google Cloud Storage, Google Cloud Dataproc, Apache NiFi

BUSINESS NEED

A major online content network needed a customized analytics solution for their migration to Google Cloud Platform.

SOLUTION

Pythian designed and implemented a solution to meet the client's need to use their vast amount of data for a 360 degree view of their customers.

RESULT

The online content network now has a flexible, cost-effective data analytics solution, and a 360-degree view of the customer experience.

PYTHIAN HELPS A MAJOR ONLINE CONTENT NETWORK IMPLEMENT CLOUD-BASED ANALYTICS SOLUTION

Since its founding decades ago, a major US online content network has grown from relatively humble beginnings into a media heavyweight with over 1.5 billion viewers per year. The company earns more than \$500M in annual revenue from entertainment, music, video games, news and sports sources.

BUSINESS NEED

To improve efficiencies and reduce costs, the online content network needed to migrate their on-premises Teradata data warehouse to the public cloud. They also needed to improve their analytics capabilities to provide a 360-degree view of customer experience.

They chose Google Cloud Platform (GCP) as the basis for their new data hub because of the significant cost savings associated with not managing on-premises hardware and software, while it also enabled them to stay current with the latest technology without requiring in-house time and expertise. For their analytics engine, they chose Google BigQuery.

The challenge was to determine how to prepare and move multi-source customer data from their Teradata data warehouse to the Google BigQuery data analytics warehouse, while also integrating all their data sources in the new data hub.

They needed a partner with expertise in Google Cloud Platform, migrations from legacy systems, data analytics, and all the tools needed to build a pipeline for the data transfer. The partner also needed to be able to both design and implement a customized analytics solution.

SOLUTION

With unrivaled experience in migration planning and implementation, data analytics, and all the tools and required expertise, Pythian was uniquely qualified to act as advisor and resource hub. Pythian Analytics



Services were chosen to develop a cloud-based analytics solution. The Pythian team designed and implemented a data pipeline that used Apache NiFi to integrate data from approximately 60 sources, including:

- · MySQL database
- Oracle database
- A number of APIs
- Omniture DoubleClick for Publishers marketing and web analytics
- · Pardot B2B Marketing Analytics
- · Tableau reports
- · Neilsen ratings and viewing data

The data was exported from the Teradata data warehouse to Apache Hadoop Distributed File System orchestrated by Google Cloud Dataproc, then transferred to Google Cloud Storage and loaded into Google BigQuery.

Pythian also created a data dictionary using Apache Avro to define the company's various data types.

RESULT

Pythian's experience with migrations and analytics solutions, plus technical expertise in the selected technologies, resulted in a flexible and cost-efficient data analytics solution. In Google BigQuery the cost of storage and compute are kept separate, and on-demand pricing enables the customer to pay for only the storage and compute they use. Query response time is also better with Google BigQuery than Teradata, and BigQuery can adapt to any data type or format, plus convert formats, without additional charges.

The online content network now has a more effective analytics solution with higher performance, increased flexibility and lower costs. They also have a better view of the end-to-end customer experience, an irreplaceable competitive advantage.

ABOUT PYTHIAN

Pythian excels at helping businesses around the world use data and the cloud to transform how they compete and win in the data economy. From cloud automation to machine learning, Pythian leads the industry with proven innovative technologies and deep data expertise. For more than 20 years Pythian has built its reputation by delivering solutions to the toughest data challenges faster and better than anyone else.

WORLDWIDE OFFICES

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