Delivery Hero - Speeding Up Decision-making with Google Cloud

In collaboration with Delivery Hero's teams, Aliz addressed the challenge of providing a "cache" layer in front of Delivery Hero's BigQuery data warehouse, in order to improve the speed of delivering data for applications.

The challenge

At food delivery companies, efficiency is key. For example, in warehouses Picker Managers need to see what the pickers have been busy with recently, to make decisions based on this data. When Delivery Hero's Picker Manager opened the app, it could take 20 seconds for the large amount of data to load from BigQuery. If they quit the app before the data loads, they make the decision without data.

The solution

To enable fast response-generation, Aliz built a cache layer for the data, with the source data stored in BigQuery. They created a Cloud Dataflow pipeline that transforms source data, and configured triggers to initiate the pipeline when source data changes. Cloud Functions was deployed to clean up outdated data, and Cloud Firestore was used as the target collection for the cache layer data.

The result

Balancing speed and accuracy while managing high order volumes can be complex. The low-cost data middleware solution on Google Cloud implemented by Aliz has led to optimal efficiency in order picking and packing. It significantly improved the speed of delivering large data for applications: Data now refreshes in the cache layer hourly within 5 minutes, and query time went below 1 second.

> **"** Collaboration between Delivery Hero's teams and Aliz Tech was smooth and agile and Aliz team proved to be a great partner in delivering the solution. **"**
>
> Abhushan Sahu, Senior Manager, Data Engineering

About Delivery Hero SE

As the world's leading local delivery platform, Delivery Hero works with a large global ecosystem of riders, restaurants, shops and partners. From prepared meals to groceries, flowers, coffee, medicine… They deliver whatever you need – fast, easy, and to your door.

Vertical/horizontal solution: Other

Primary project location: Germany

About Aliz Tech GmbH

Aliz is the proven Google Cloud partner for a smooth cloud journey, with specialisations in Data Analytics, ML, Infrastructure, and Cloud Migration

Products

Google Cloud Platform