

Ideanomics: Telematics Platform on GCP

Qarik provided hands-on technical and advisory services in collaboration with Ideanomics teams to validate and implement new GCP environments that transmit and receive telematics data. Qarik shared GCP expertise with the platform team.

The challenge

Ideanomics wanted to rapidly capitalize on a new strategic partnership with GCP by creating a new GCP-based platform that would enable all Ideanomics Operating Companies, acting somewhat independently, to have a common platform for ingesting, analyzing, and making decisions from data.

The solution

Utilize cloud build to reduce build times and to prove out GCP-based design for transmitting/receiving vehicle telematics data via the industry standard MQTT protocol. Utilize Google Cloud's operations suite for monitoring and logging to monitor the services that are responsible for message transformation. Utilize artifact registry to manage container images and language packages.

The result

Ideanomics team was enabled to deliver a telematics platform that was able to ingest real data presented in a usable way. Improved GKE environment and standards including updating org structure to operate GCP securely. Built 3 Looker dashboards and built Look semantic layer integrations to BigQuery. Completed load testing with 100,000 messages in single node. Satisfied proof of concept for MQTT.

“ Qarik excelled as a partner for us. They brought their deep GCP knowledge, engineering skills, and customer-centricity. Throughout our partnership, Qarik was an extension of our team, working with us to navigate through key decisions & pivots. Together, we are building a scalable, secure telematics & energy platform that will drive new value for our customers & boost 2023 revenue. ”

Nigel Walker, VP IT, Software and Telematics, Ideanomics



About Ideanomics

Headquartered in New York, Ideanomics is a global group with a simple mission: to accelerate the commercial adoption of electric vehicles.

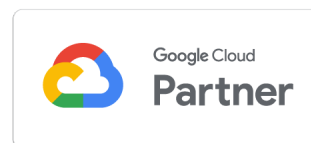
Vertical/horizontal solution: Automotive

Primary project location: United States



About Qarik Group LLC

Qarik is a Google Cloud Premier Partner on a mission to help our clients advance further and faster along their modernization/transformation journeys.



Products

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