

# SIMPLIFYING GRAB'S DATA PIPELINE

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The iguazio Continuous Data Platform deployed at Southeast Asian ride-hailing giant Grab – which facilitates more than 3 million rides per day – simplifies its data pipeline, accelerates performance and reduces costs.

## OVERVIEW

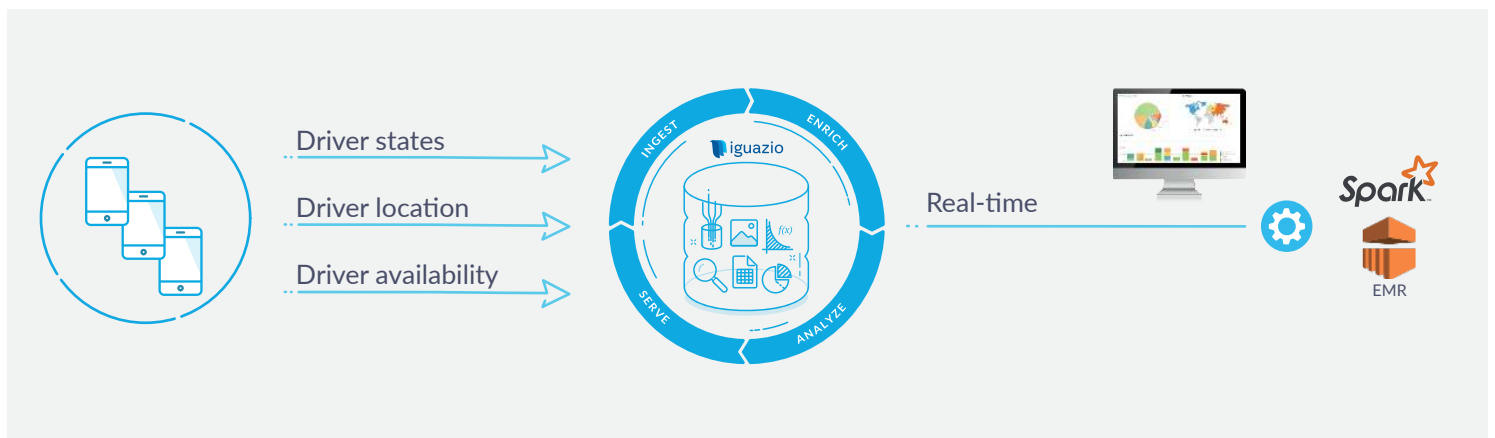
iguazio delivers a Continuous Data Platform to power continuous analytics and event-driven applications. The solution enables customers to ingest, enrich and analyze data in real-time, all in one simple, fast and secure platform. It accelerates the deployment of a variety of analytics services, eliminating data pipeline complexities and reducing time to insights. iguazio's Unified Data Platform can run anywhere: on the public cloud, on-premises or at the network edge. It supports multiple APIs, data sources and types, big data applications/analytics and cloud services, addressing a broad range of customer requirements.

## A SIMPLIFIED DATA PIPELINE

The iguazio continuous data platform enables Grab to ingest data directly to a single data store in different formats such as stream, object/file and database records. Grab streams data directly from the application to iguazio using common REST APIs (e.g. DynamoDB and S3), eliminating the need for a dedicated streaming cluster. In this simplified pipeline, Grab generates real-time analytics using Spark jobs

running on top of iguazio's NoSQL database as opposed to previous hourly batch operation methods. Based on the analyzed data, Grab can generate the following real-time reports:

- Monitoring driver incentives to determine driver bonuses in real-time, by analyzing and increasing driver effectiveness, the number of runs during peak driving times and rider satisfaction
- Maximizing driver profits while reducing passenger wait times by optimizing the driver decision-making process using advanced real-time supply and demand heat maps
- Optimizing surge pricing, which correlates passenger demand data with external data sources, such as news, local weather conditions and social media

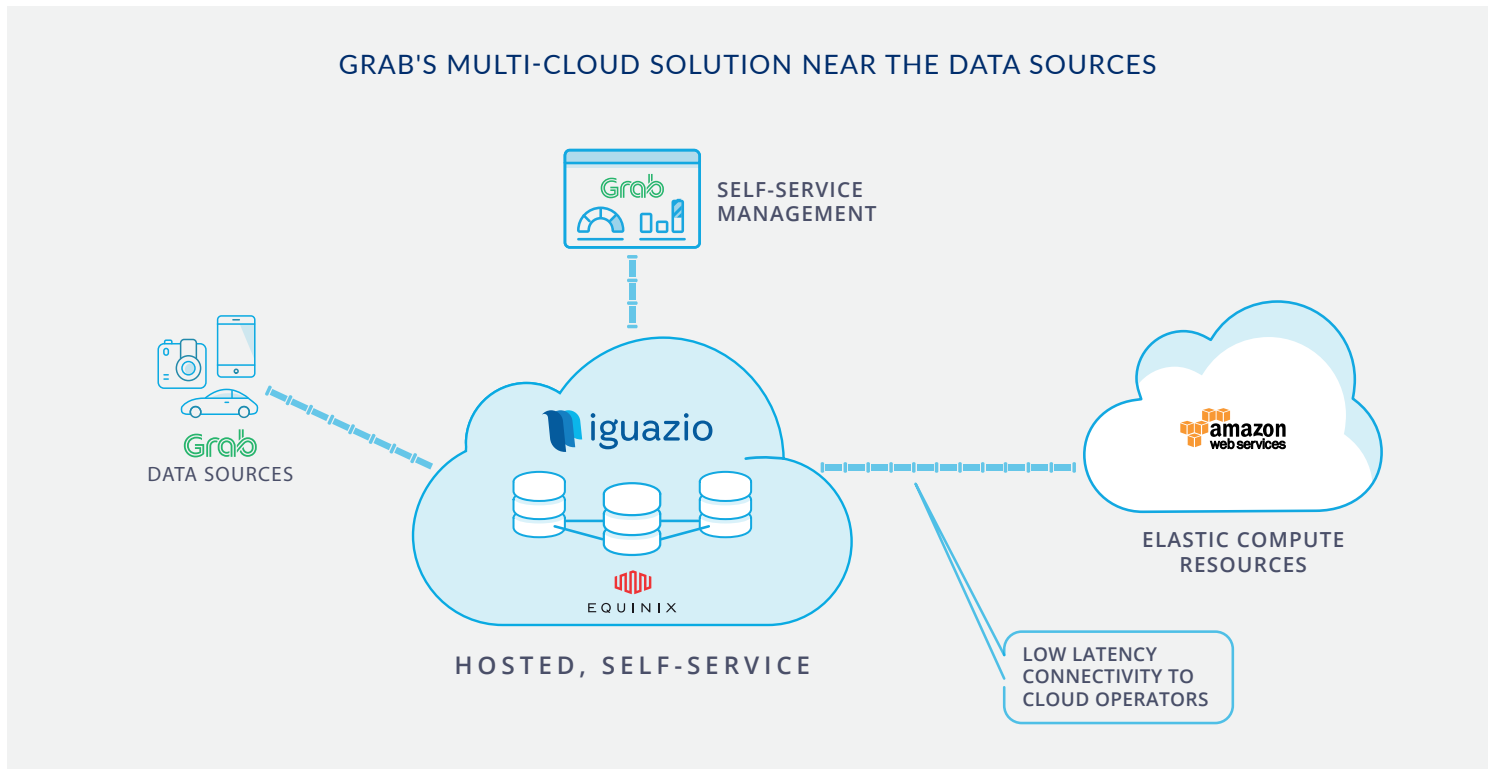


## A HYBRID/ MULTI-CLOUD

iguazio provides Grab with a hybrid/multi-cloud solution which enables it to run compute on multiple cloud service providers (CSPs), while accessing advanced data services running on iguazio at Equinix. iguazio works out of Equinix's International Business Exchange (IBX) data centers, leveraging Equinix's fast connectivity to CSPs and delivering a secure, real-time turnkey platform near Grab's data sources.

iguazio securely accesses latency-sensitive data from AWS's Elastic Map Reduce (EMR Spark Cluster) with minimum data modeling time-to-insight. In addition, iguazio integrates with other AWS data stores to enhance Grab's performance,

such as object storage residing in S3, streaming data from Kinesis, data warehousing from Redshift and key-value from DynamoDB. The Equinix/iguazio/CSP infrastructure is a true hybrid/multi-cloud environment, offering compute in the cloud and data services close to the data source (see diagram below). iguazio spans on-premises, cloud compute and data services, opening the door for customers like Grab, which need the flexibility to "burst up" their compute capacity for analyzing large stored data sets. This allows Grab to save on capital expenditures for computational capacity that may often sit idle and unused.



"Grab's business thrives because of our ability to manage a continuous stream of data that facilitates real-time matching, booking, payment and location services. iguazio will enable us to continue offering new innovative services at a faster time to market." - Ditesh Gathani, Director of Engineering at Grab

## ABOUT IGUAZIO

iguazio is pioneering a fresh approach to the data challenges faced by today's enterprises. The iguazio Unified Data Platform provides a new turnkey data stack to support continuous analytics and event driven applications. iguazio's customers operate in a wide range of industries such as financial services, IoT, cyber security and telematics. Backed by top VCs and strategic investors, the company is led by serial entrepreneurs and a diverse team of seasoned innovators in the USA, Singapore and Israel.