

CLOUD EXPERIENCE AT THE EDGE

iguazio is a Gartner
Cool Vendor in Data
Management, 2017

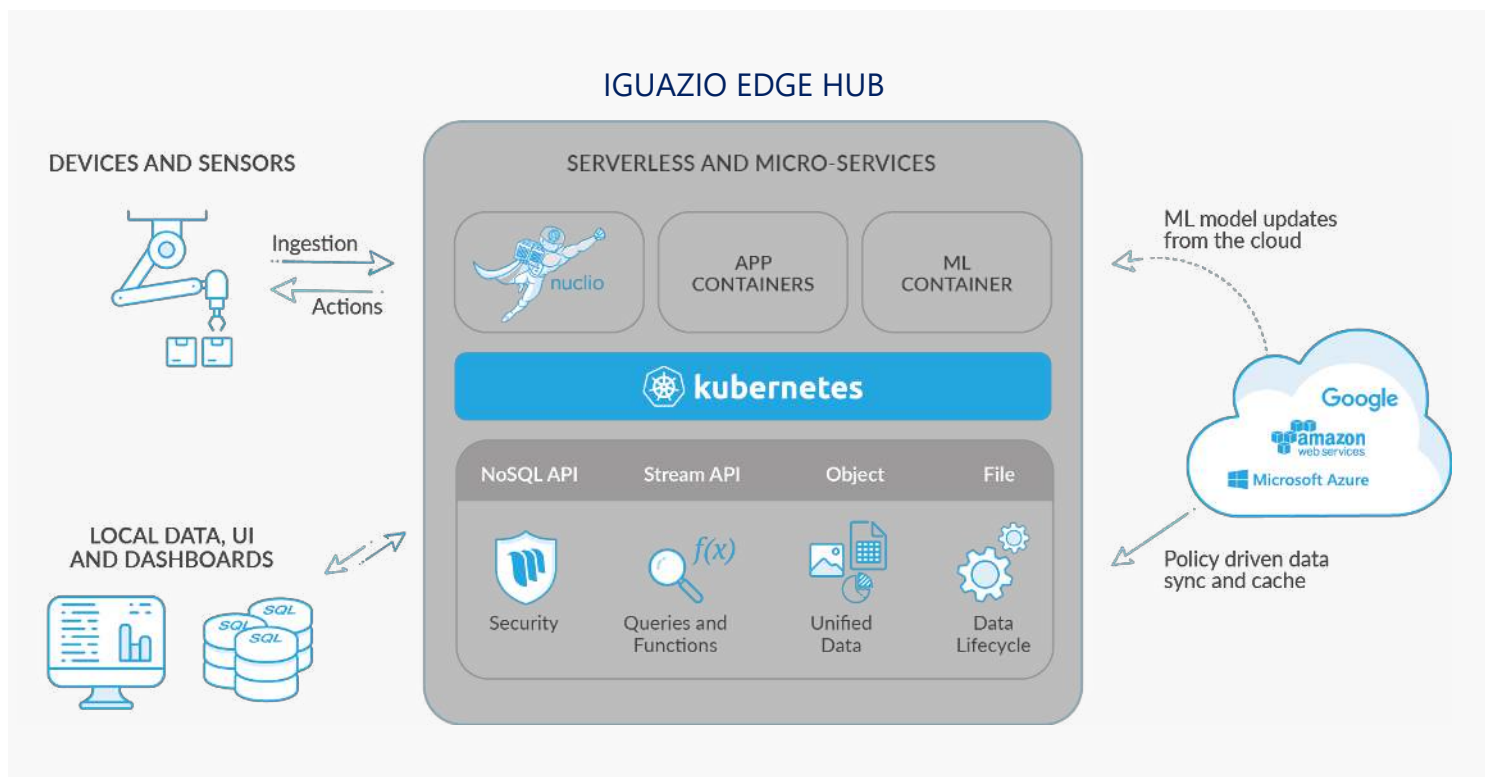
Gartner
Cool
Vendor
2017

OVERVIEW

Edge analytics and processing perform data collection and analysis at the edge of the network, near the source of data. Edge data sources can be anything from a car to an industrial component which gathers data from several machines in a factory. Intelligence at the edge enables autonomous devices, which process and analyze data closer to the source and respond immediately to real-time events.

IGUAZIO EDGE

The iguazio edge node was designed specifically to handle unprecedented volumes of data, aggregated from many devices in real-time. It offloads various analytics scenarios, providing fine-grained token-based access control and building dense and low-cost solutions. The platform enables edge deployment across multiple locations in order to analyze data closer to its sources and boost response time. iguazio's customers process millions of real-time events per second combined with historical data in a small footprint and low cost, coupled with analytics and machine learning tools. Devices and services running at the edge are managed in the same iguazio portal, making it easy to monitor the continuous data pipeline.



Various industrial use-cases require decisions in fractions of seconds, and there just isn't time to send the data to the cloud and back. The iguazio edge solution empowers customers to make faster and smarter decisions, while reducing bandwidth costs by sending only critical information to the cloud for further analysis.

USE CASES

INDUSTRIAL IOT

Factories require immediate response time to stop operations when an equipment failure is predicted or detected by local intelligence, or to ensure employee safety in case of an accident.

TELECOMMUNICATIONS

Telcos use iguazio's edge solution to monitor and predict network health in real-time. This is achieved by processing high message throughput from multiple streams correlated with historical data at the edge.

SURVEILLANCE

Sending videos from surveillance cameras to the cloud for processing can cause serious delays. Local processing becomes crucial in sensitive use-cases where decisions must be made immediately.



"iguazio provides a distributed cloud near the edge for the greater simplicity, performance, security and agility required by next generation applications." – Ingo Ramesohl, RBVC Technology Managing Director

TECHNICAL SPECIFICATIONS

Specifications	IGZ Edge
Transaction/sec	Up to 200K iops/sec
Read/Write Throughput	12 Gbps
Form Factor	2RU
Data Nodes	4 blade servers
Storage Capacity	7-43 TB NVMe
Power Consumption	700 W typical
Application Nodes	4

Supported APIs

- Files & Objects: S3+ | HDFS | Linux File System
- Streaming: Kinesis | Kafka | Spark Streaming
- SQL / ML: Spark SQL | Spark ML | Presto | H2O | TensorFlow
- NoSQL: Rest API (DynamoDB)
- Serverless: nuclio



ABOUT IGUAZIO

The iguazio Continuous Data Platform simplifies the development and deployment of data-driven applications by extending the cloud experience at the edge and on-premises. iguazio's customers operate in a wide range of industries such as IIoT, smart mobility, telco, financial services and cyber security. 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.