

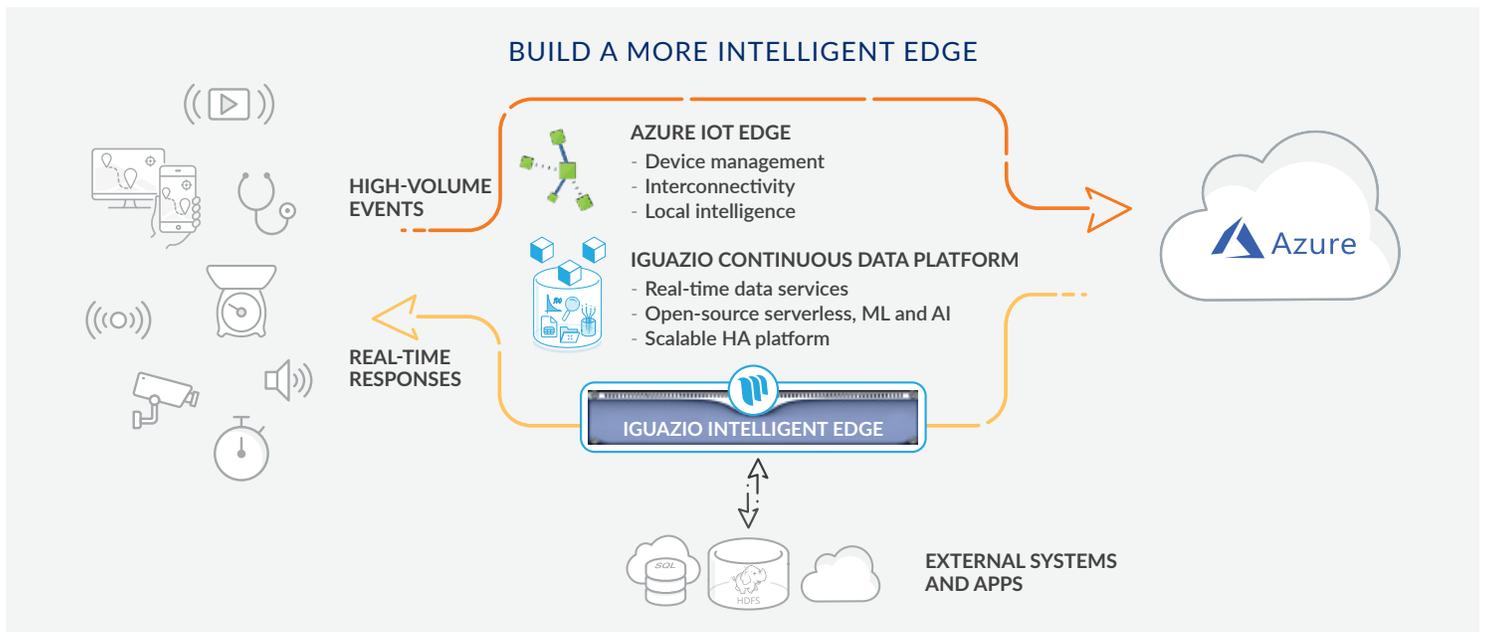
BUILDING THE INTELLIGENT EDGE

EXTENDING AZURE IOT WITH IGUAZIO'S CONTINUOUS DATA PLATFORM

Businesses today are discovering exciting new uses of data that can transform the way they deliver mobility, telecommunications, media, finance, insurance, medical and other services. However, with many of these transformations come massive data ingest volumes and stringent real-time response needs. Microsoft has made major strides toward solutions with Azure, Azure IoT and IoT Edge, but still faces limitations.

Iguazio has partnered with Microsoft to enhance the capabilities of Azure at the edge by providing additional data services and application deployment tools. This gives customers and machines millisecond responsiveness, ensured security and selective ingest of data into Azure to control

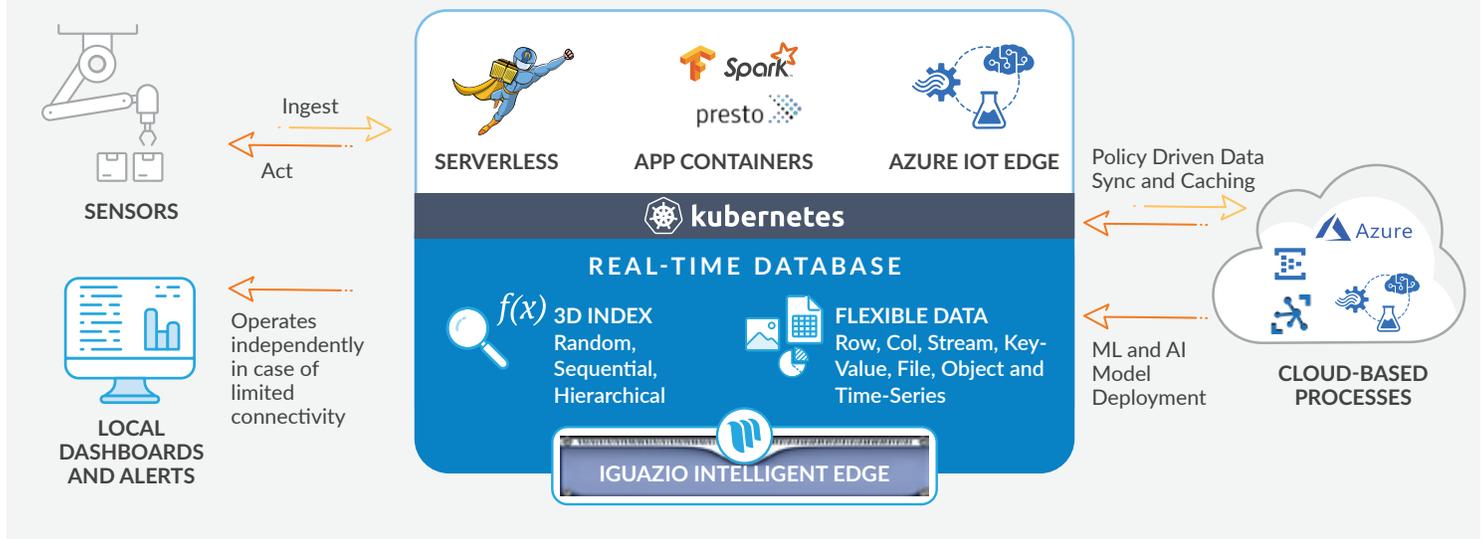
operational expenses. Users can tackle high volume and speed problems by placing more of their data storage, transformation, enrichment, filtering and aggregation tasks at the edge, while using Azure as the host for the core services of the business.



Iguazio delivers a Continuous Data Platform (CDP) to simplify the development and deployment of intelligent real-time applications across cloud, on-premises and edge. At the edge, the CDP augments Microsoft's IoT products to more effectively ingest, enrich and analyze data in large volumes from various sources using one fully managed solution. The platform combines a high performance scalable database, built-in open-source tools for AI and serverless and self-service management. Iguazio offers the most complete edge solution:

- Direct, private, high-speed connectivity to Azure
- Real-time data services for key-value, files, objects, Spark, streams and time-series data
- Fast and open serverless platform
- Expanded analytics and data engineering with AI tools including Spark, Tensorflow, R and Python
- Remote deployment and administration
- In-memory speeds at the scale and cost of Flash
- Density, reliability, privacy, power efficiency and scale

IGUAZIO CDP + IOT EDGE: COMPREHENSIVE SERVICES



The solution places strategic control points next to users, clouds and networks to simplify the data pipeline. Businesses leverage the cloud's agility and simplicity to create, train,

persist and containerize machine learning models in Azure, while automatically deploying, integrating, running predictive models and taking immediate action at the edge.

BUILD A TRUE INTELLIGENT EDGE

Integrate edge applications with Azure to employ elastic compute and archiving resources in the public cloud, while securely ingesting, enriching and acting upon massive event streams in real-time at the edge.

ASSURE DATA INTEGRITY WITH FINE-GRAINED SECURITY

Ensure data privacy and governance across edge, on-premises and hybrid cloud data; fine-grained access control, backups, auditing, service levels and other custom operations.

DELIVER REAL-TIME INSIGHTS

Reach in-memory speed without compromising high density and cost efficiency. Run data services requiring fast response times on the Iguazio platform, while running non-critical data services in the public cloud.

SIMPLIFY DEVELOPMENT AND DEPLOYMENT

Accelerate development and deployment using Nuclio, the real-time open-source serverless engine, to build pipelines and apply machine learning models created using Microsoft ML Workbench, Apache Spark, Tensorflow, R and Python.

SIMPLIFY ADMINISTRATION

Enjoy Peace-of-mind made possible with Iguazio's self-service management, which automates IT ops and reduces the administrative burden for data pipelines.

STOP UNNECESSARY "CLOUD SPRAWL"

Manage Azure data ingest costs by retaining, filtering and analyzing data at the edge, and then scale your infrastructure using container swarms running atop Iguazio's Kubernetes cluster at the edge.

USE CASES

NETWORK OPTIMIZATION

The Iguazio CDP processes high message throughput of time-series data from multiple streams correlated with historical data, at a rate of more than 50K events per second. Machine learning models developed in Azure detect abnormal events to prevent outages and intelligent insights are served in real-time via interactive dashboards, alerts and automated actions.

INDUSTRIAL IOT: PREDICTIVE MAINTENANCE

High-volume data is ingested in real-time from devices and is rapidly enriched with contextual data in real-time. Machine learning models built in Azure are rapidly deployed at the edge to detect equipment abnormalities and insights are served via interactive dashboards and actions such as activating or shutting off machinery.