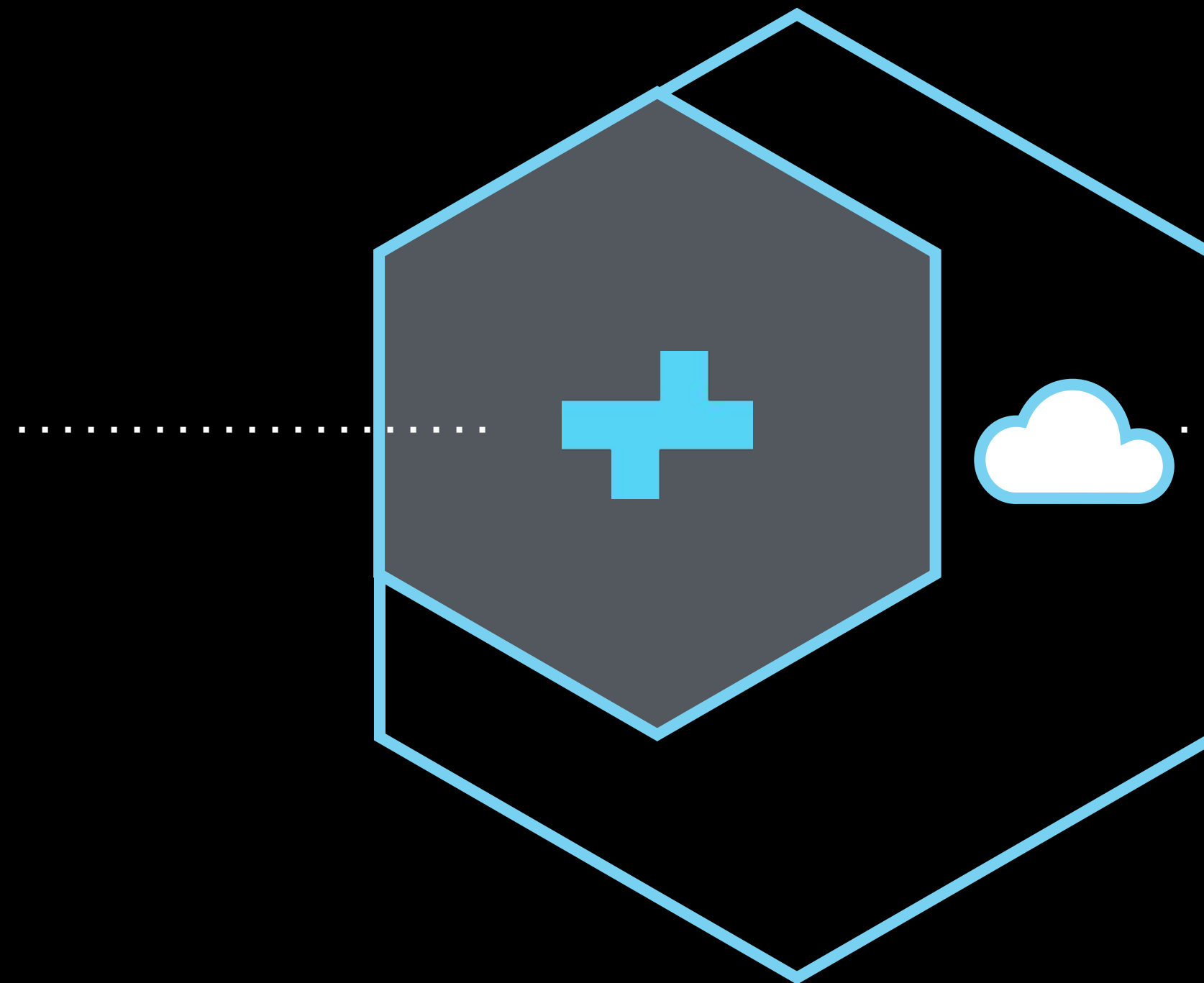# CRATE.IO

Crate.io
Unlimited Scale for Machine Data

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April 2019

Our offering

CrateDB
DB container
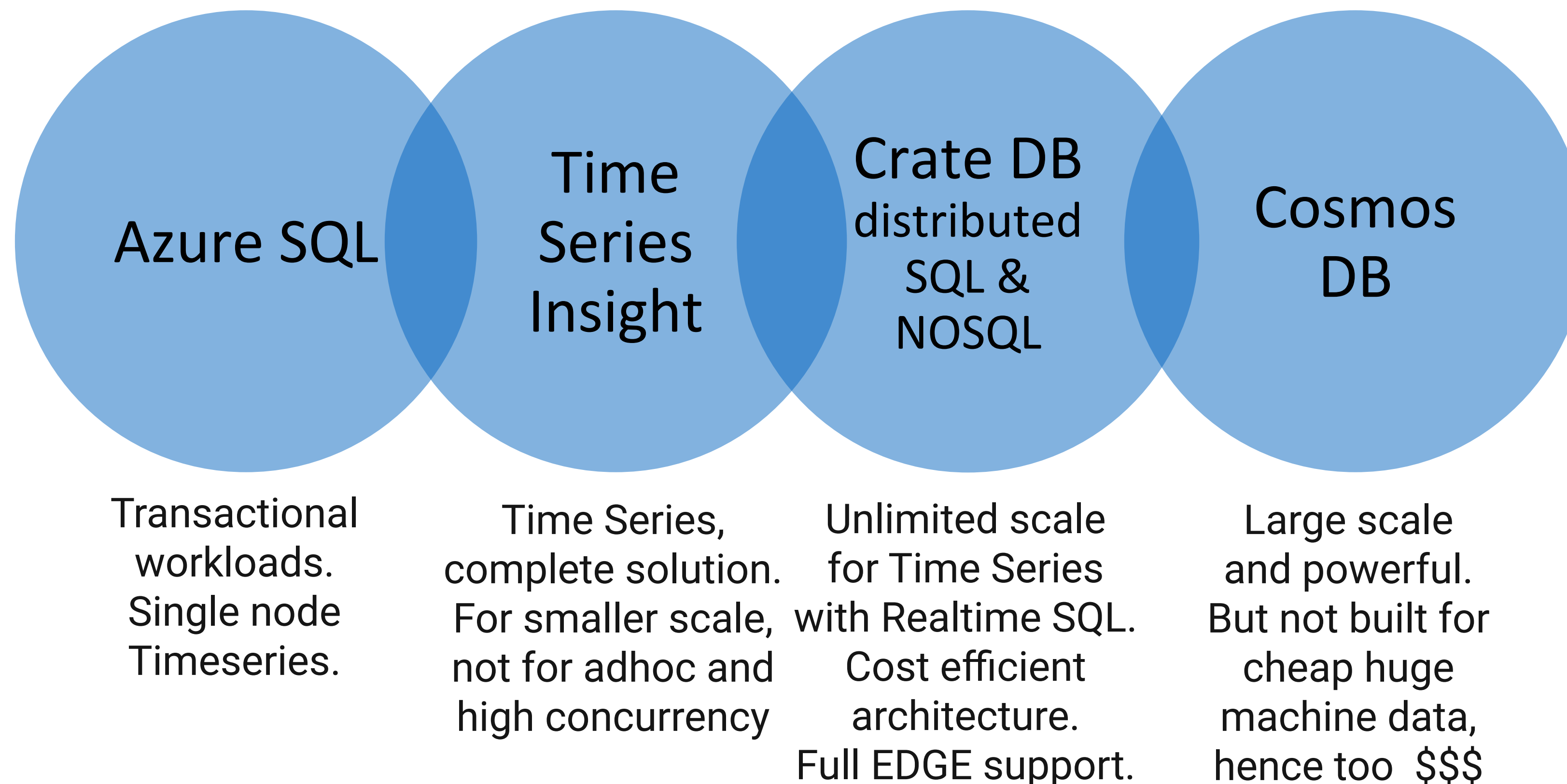deploy on EDGE
and CLOUD

**CrateDB Cloud
for Azure IoT**
DBaaS on Azure

Microsoft Azure & CrateDB Cloud –

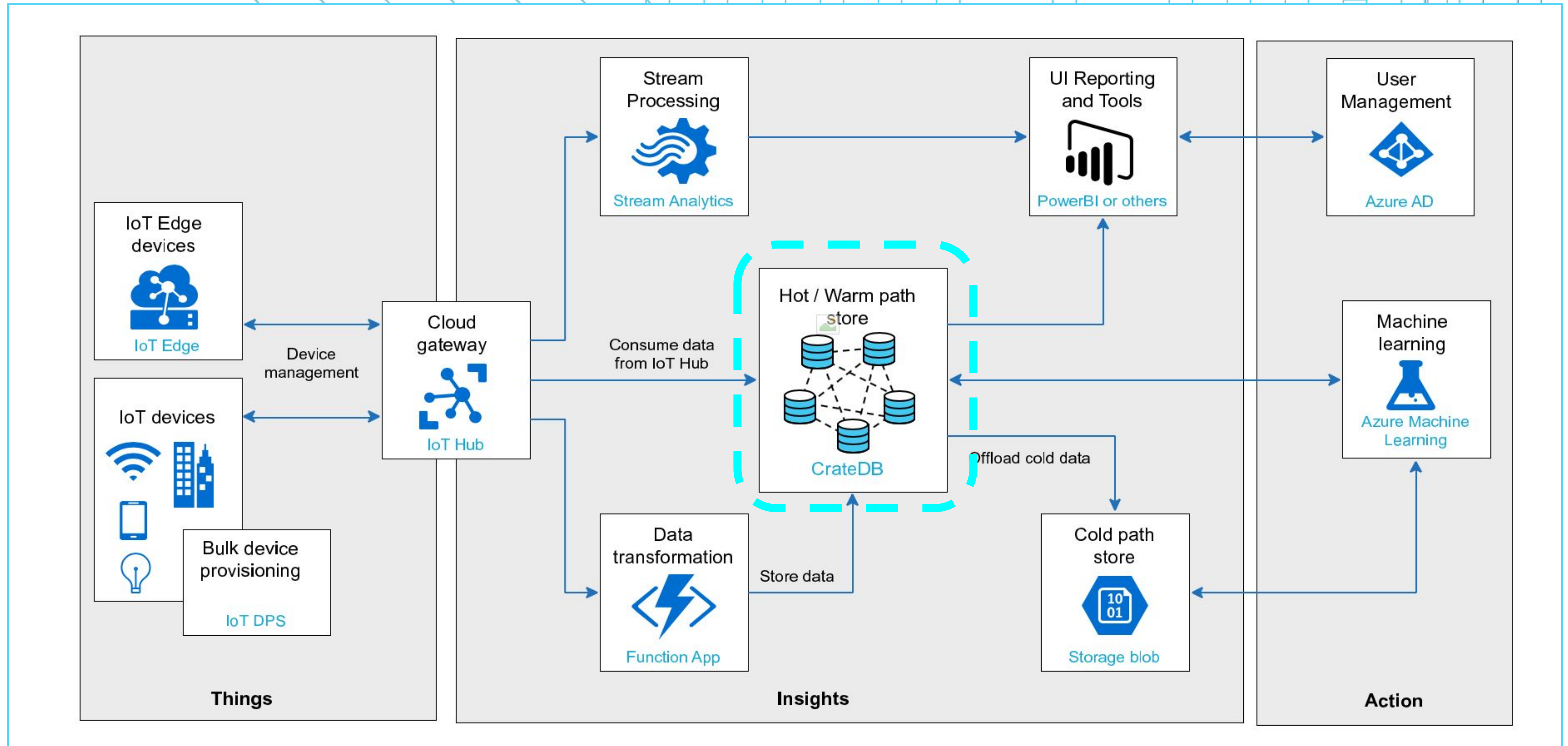Azure offers strong capabilities with different database offerings.

But there is a gap when it comes to industrial scale use-cases:

Time Series & relational data, real-time adhoc queries, large data volumes, high ingest speed, high concurrency, multi year retention, aggregations, SQL support and EDGE module.

Azure SQL	Time Series Insight	Crate DB distributed SQL & NOSQL	Cosmos DB
Transactional workloads. Single node Timeseries.	Time Series, complete solution. For smaller scale, not for adhoc and high concurrency	Unlimited scale for Time Series with Realtime SQL. Cost efficient architecture. Full EDGE support.	Large scale and powerful. But not built for cheap huge machine data, hence too $$$

IoT Solution Architecture
Microsoft IoT Hub & CrateDB Cloud for Azure IoT
–

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IoT Devices

IoT EDGE Devices

Azure IoT EDGE runtime

Azure Stream Analytics on IoT Edge

Data

Commands

Data

Deployment Configuration

Other IoT EDGE modules

Azure

Azure IoT Hub

Data

CrateDB Cloud
for Azure IoT
- Data integration
- Data storage
- Data query via SQL/Rest API
- Data aging/archival
- Backup & restore
- Systems monitoring & logging
- Scaling

Information

Rest API

- Custom Applications
- Data Science (AI/ML)
- Notification & Control

SQL

Standard tools for
- Dashboards
- Analytics (PowerBI)

Fully integrated in Azure stack - IoT Hub/ Event Hub connected