

# REAL TIME INTERACTIVE ANALYTICS FOR IOT, EVENTS AND TELEMETRY DATA



Introducing Real-Time Interactive Analytics for IoT, Events, and Telemetry Data Solution in Azure!

This solution is designed to provide a powerful and scalable way to process and analyze large amounts of real-time data generated by IoT devices, events, and telemetry data. It utilizes Azure Event Hub and Azure Data Explorer (ADX) to collect, store, and analyze data in real-time, providing valuable insights and actionable information to improve decision-making.

## Brief about the solution main services:

Azure Event Hub - is a scalable data streaming platform that can ingest millions of events per second. It can handle high velocity, high volume, and real-time data from multiple sources such as IoT devices, social media, logs, and clickstreams. With Azure Event Hub, you can capture data from anywhere, process it in real-time, and send it to various destinations such as Azure Data Explorer, Azure Blob Storage, or Azure Stream Analytics for further analysis.

Azure Data Explorer - is a fast and highly scalable analytics service designed for real-time data exploration and analysis. It is optimized for ad-hoc queries, complex analytics, and interactive data exploration. ADX can store and query large volumes of structured, semi-structured, and unstructured data, and provide insights into your data in seconds.

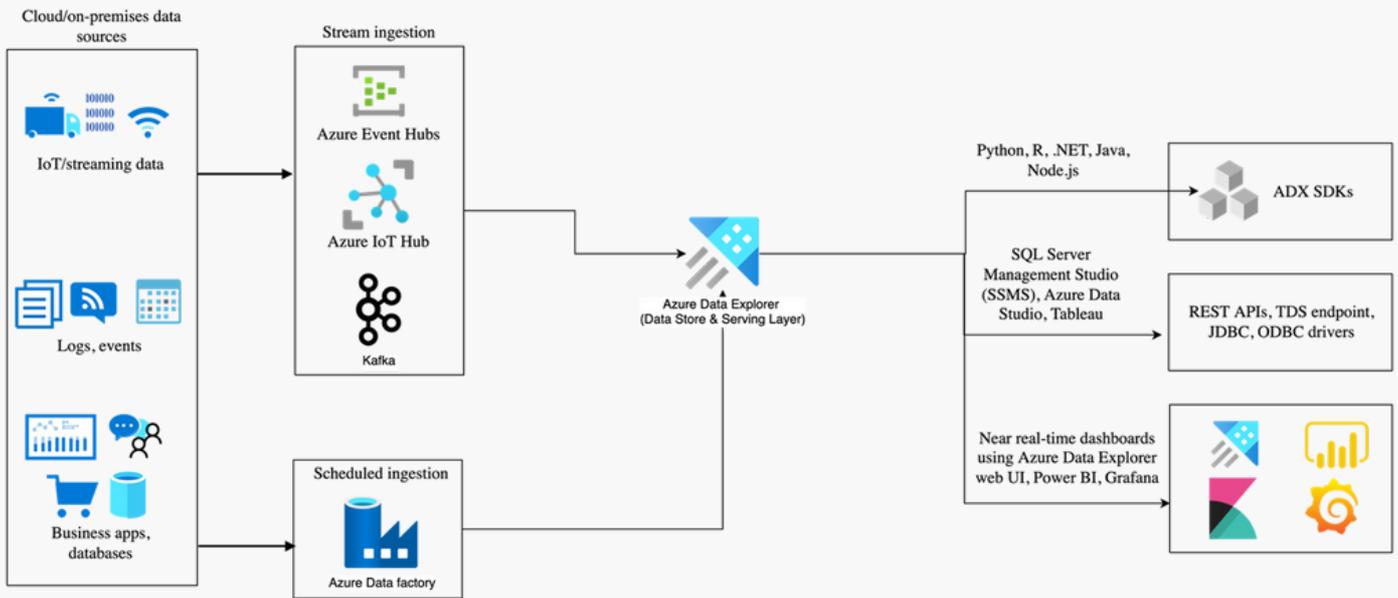
## Solution Benefits:

- Ingest and process millions of events per second from any source.
- Store large volumes of structured, semi-structured, and unstructured data.
- Analyze data in real-time, providing valuable insights and actionable information
- Fast query time compare to other solutions on the market as Splunk, big query etc.
- Visualize data in real-time using Power BI, Excel, or other data visualization tools.
- Improve decision-making with real-time insights and predictive analytics.
- Scale up or down as needed to meet changing business needs.
- Integrate with other Azure services such as Azure Stream Analytics, Databricks, Azure Functions, and Azure Machine Learning to boost capabilities.
- Being cost effective while handling huge volumes of data from different sources.

## HARNESSING THE POWER OF STREAMING DATA FOR BETTER INSIGHTS AND DECISION-MAKING

Real-Time Interactive Analytics for IoT, Events, and Telemetry Data Solution in Azure is a powerful and scalable solution that can help you process, analyze, and gain insights from real-time data generated by IoT devices, events, and telemetry data.

It provides a fast, reliable, and scalable way to ingest, store, and analyze large amounts of streaming data, and enables you to make better decisions based on real-time insights and predictive analytics.



### Sectors:

Real-time interactive analytics for IoT, events, and telemetry data solution in Azure can be used in various sectors that generate a large amount of streaming data:

**Manufacturing:** Manufacturing plants can use this solution to collect real-time data from IoT devices and sensors installed in their factories. They can analyze this data to monitor machine performance, detect anomalies, and predict maintenance issues.

**Energy:** Energy companies can use this solution to collect data from smart meters, weather sensors, and other IoT devices. They can analyze this data to optimize energy consumption, predict demand, and prevent power outages.

**Healthcare:** Hospitals and healthcare providers can use this solution to collect and analyze data from wearables, medical devices, and patient monitoring systems. They can use this data to improve patient outcomes, predict disease outbreaks, and optimize resource allocation.

**Retail:** Retailers can use this solution to collect and analyze data from in-store sensors, mobile devices, and e-commerce platforms. They can use this data to optimize store layouts, personalize offers, and improve customer experience.

**Transportation:** Transportation companies can use this solution to collect data from vehicles, traffic sensors, and GPS devices. They can use this data to optimize route planning, reduce fuel consumption, and improve fleet management.

## AZTEK TECHNOLOGIES

Aztek Technologies is a trusted Microsoft Solution Partner that offers Cloud Professional Services and comprehensive Microsoft-based solutions to various B2B industries. Our specialized team excels in designing, executing, supervising, and maintaining Microsoft-based cloud environments, particularly Microsoft Azure. We build and manage harmonized technological ecosystems that perfectly align with your organizational requirements, featuring automated user interfaces, end-client connectivity, fault monitoring systems, budget and timeline management, data migration procedures, license administration, advanced data security, and other valuable services. Our commitment lies in adopting cutting-edge technologies, as long as they meet our high standards of excellence.

### Our Services:



#### Azure

- Architecture Design
- Migration & Transformation
- DevOps & Automation



#### FinOps

- Cloud Financial Operation
- Licensing agreements optimization



#### Data & AI

- Architecture & Assessments
- Data Migration & Modernization
- Managed Data Solutions



#### Modern Workplace

- Architecture Design
- Implementation



#### App & Dev

- Application Modernization Assessment & Migration
- Cloud Application Development Projects
- Cloud Native Dev & DevOps



#### Security & Compliance

- Consultancy and assessment
- Complete suite and component Integration & implementation

### Microsoft Advanced Specializations:

- Analytics on Microsoft Azure
- Data & AI
- Identity and Access Management
- Security Modernization of Web Applications
- Windows Server and SQL Server Migration



We provide a One Stop Shop solution that gives our clients the best manage service, by delivering enterprise-level IT services but with the agility and personality of a closely trusted partner.

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