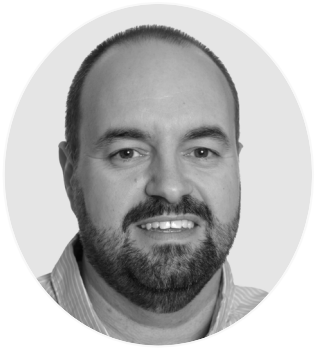
INTRODUCTION

Create Real-time Data Pipelines with Azure EventHubs and Azure Stream Analytics



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Creating a Real-time Data Pipeline

IoT sensors are generating thousands of air pollution readings per day

We need to ingest these events and process them in real-time

Azure EventHubs to ingest events

Azure Stream Analytics to process them in real-time

CLIP 1

Azure EventHubs

A fully managed and scalable, real-time data ingestion service

EventHub Namespace

Scoping container

Can house multiple Event Hubs

Gives us a unique FQDN

CLIP 2

Download Air Pollution Sensor Generator

https://github.com/evangeloper/pluralsight-integrating-data-azure

CLIP 3

Creating a Real-time Data Pipeline

- Transform and enrich received events on the spot
- Store events received from the IoT devices
- Provide this data to the monitoring department in real-time

Azure Stream Analytics

A server-less, real-time event processing engine

Designed for mission-critical workloads

Allows us to run real-time analytics on multiple streams of data

- IoT devices
- Websites
- Apps

Learn More About Azure Stream Analytics

https://azure.microsoft.com/en-us/services/stream-analytics/

CLIP 4
NO SLIDES

CLIP 5
NO SLIDES

CLIP 6
NO SLIDES

CLIP 7

Learn More About Stream Analytics Query Language

https://docs.microsoft.com/en-us/stream-analytics-query/stream-analytics-query-language-reference

CLIP 7
NO SLIDES

SUMMARY

Summary

Configuring EventHubs to ingest real-time events

Created a Stream Analytics job with inputs, outputs, and a query