Configure Azure Stream Analytics with Event Hub and Blob Storage Inputs



Reza Salehi CLOUD CONSULTANT

@zaalion linkedin.com/in/rezasalehi2008



Overview



Overview of Azure Stream Analytics inputs

Input categories

- Reference and stream inputs

Supported reference inputs

- Azure Blob and Azure SQL Database

Supported stream inputs

- Azure Event Hubs, IoT Hub, and Blob

Steps to configure inputs

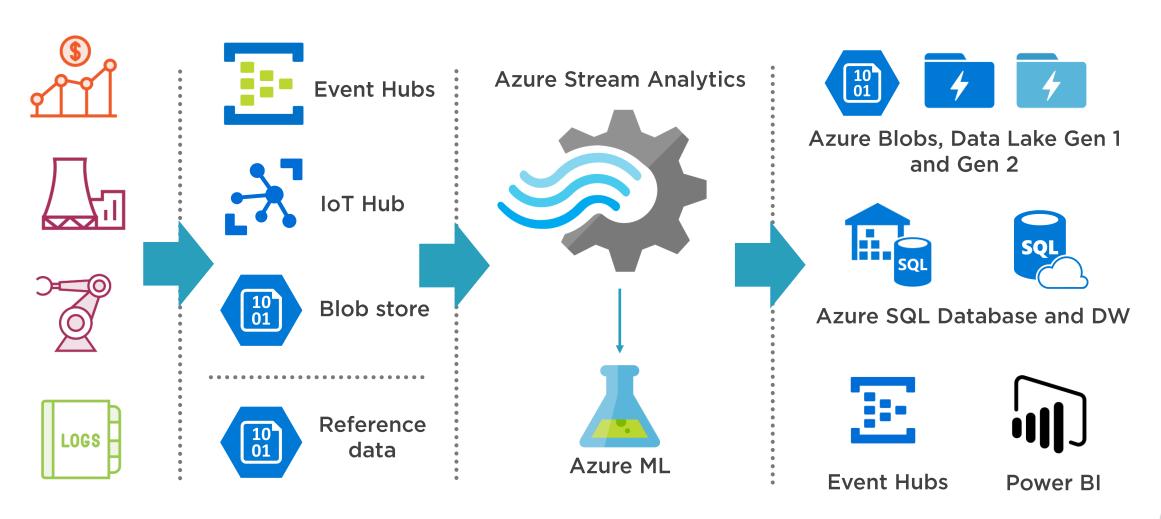
Demo: Working with Azure Stream Analytics inputs



Azure Stream Analytics Data Flow

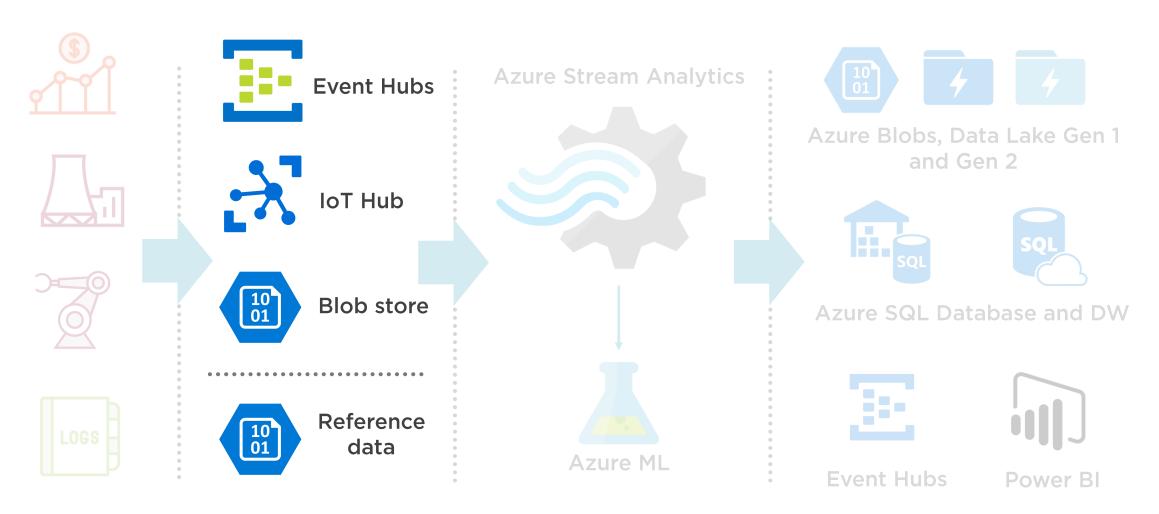


Azure Stream Analytics Data Flow





Azure Stream Analytics Inputs





Azure Stream Analytics Input Categories

Data stream input

Reference data input



Data Stream Input

Any data stream which you need to process in real-time and act upon.





A data stream is an ongoing sequence of events over time

At least one data stream input for a Stream Analytics job

- Azure Event Hubs
- Azure IoT Hub
- Azure Blob storage



Data Stream Inputs







Azure Event Hubs

Any custom application

Azure IoT Hub
Optimized for Internet
of Things (IoT)

Azure Blob storage
Bulk data such as
log files



Data Stream Inputs

Stock trade data

Azure SQL Database activities

Data generated by a gaming engine

Online banking activities

Data from heat sensors in a power plant

Log files from a custom application

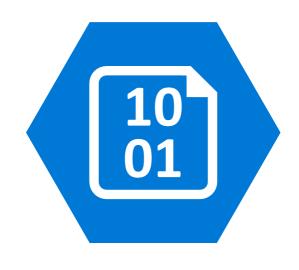


Reference Data Input

Data which does not change or changes very slowly, such as metadata lookups.



Reference Data Inputs



Azure Blob storage



Azure SQL Database



Reference Data Inputs

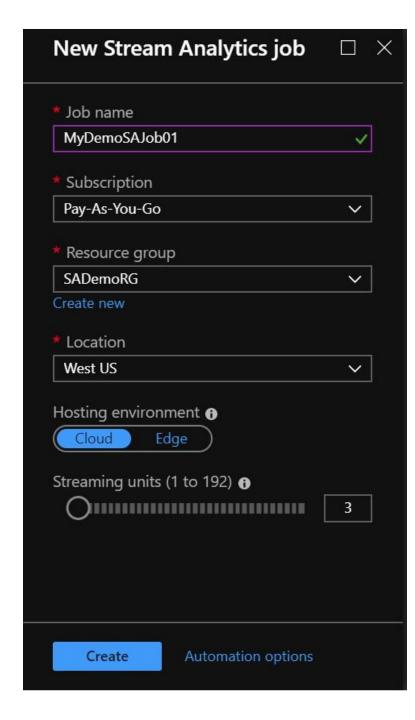
Metadata lookups (device capacity, name, etc.)

Trusted entities (registered devices)

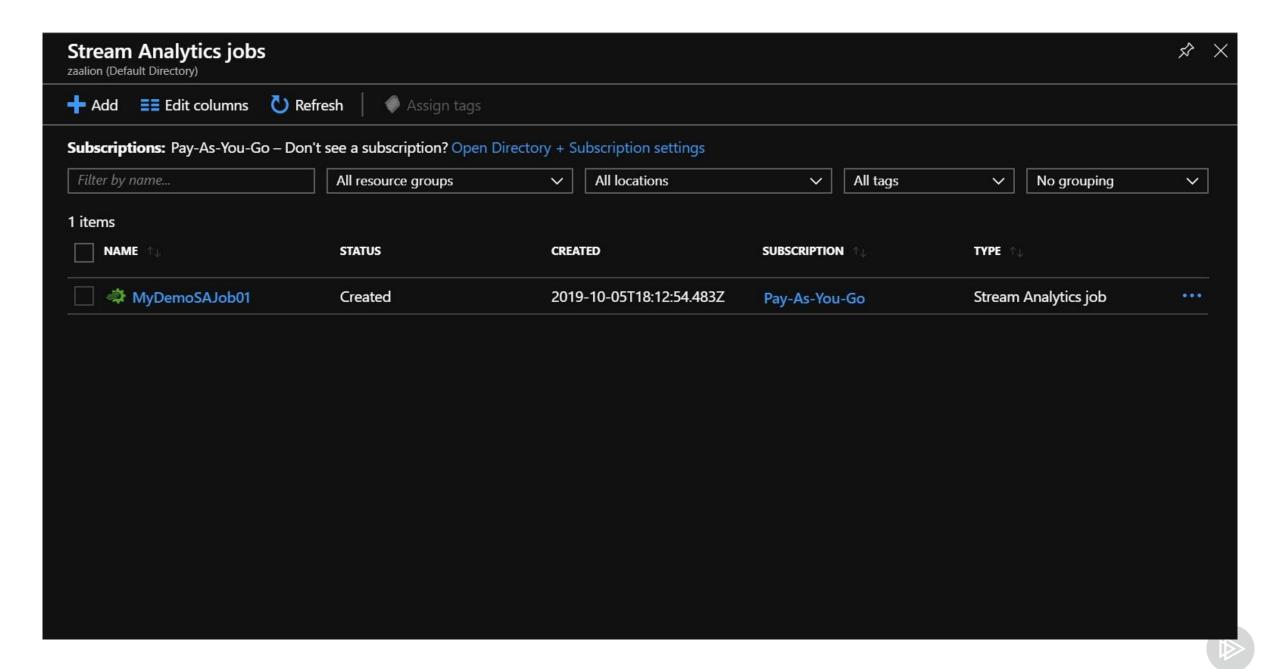
Acceptable thresholds (allowed temperature, etc.)

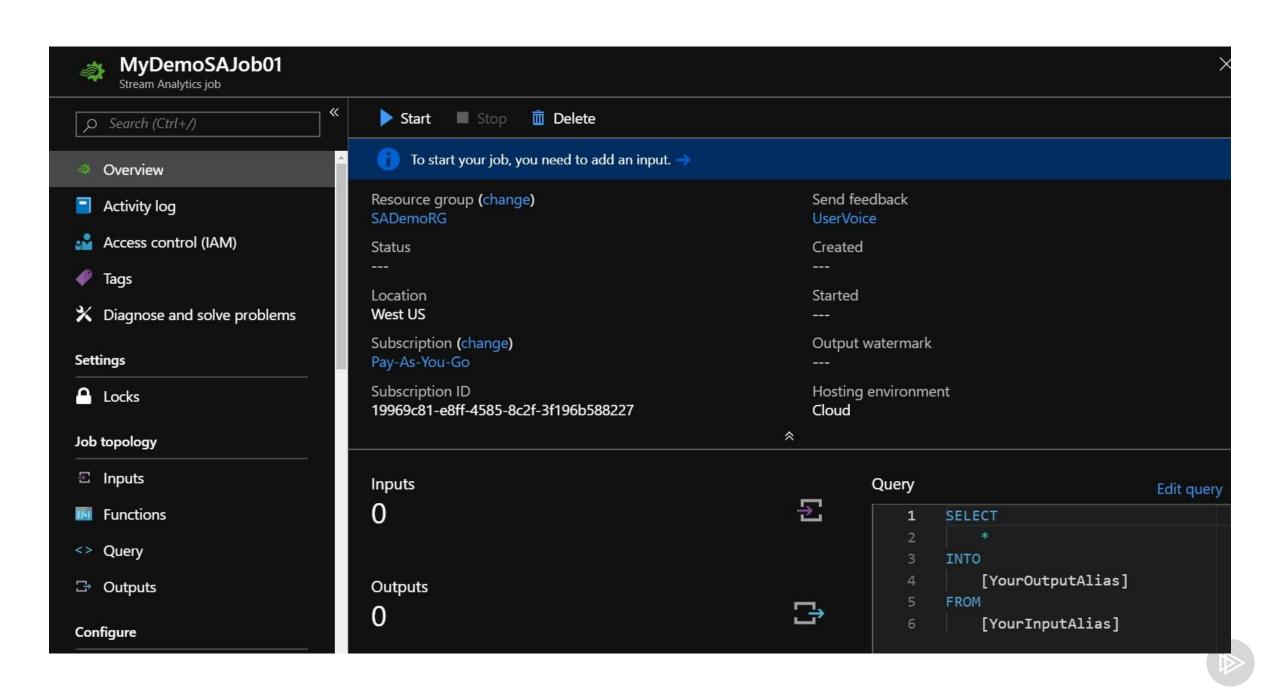
Any lookup or slow changing data

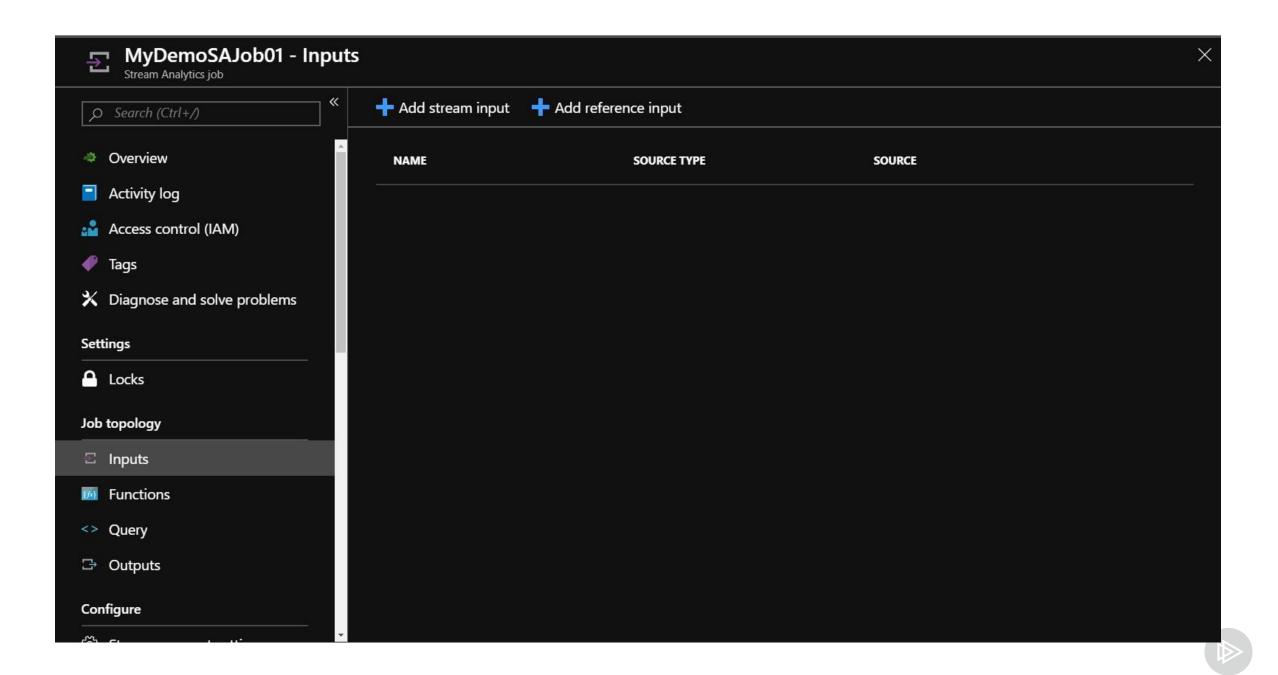


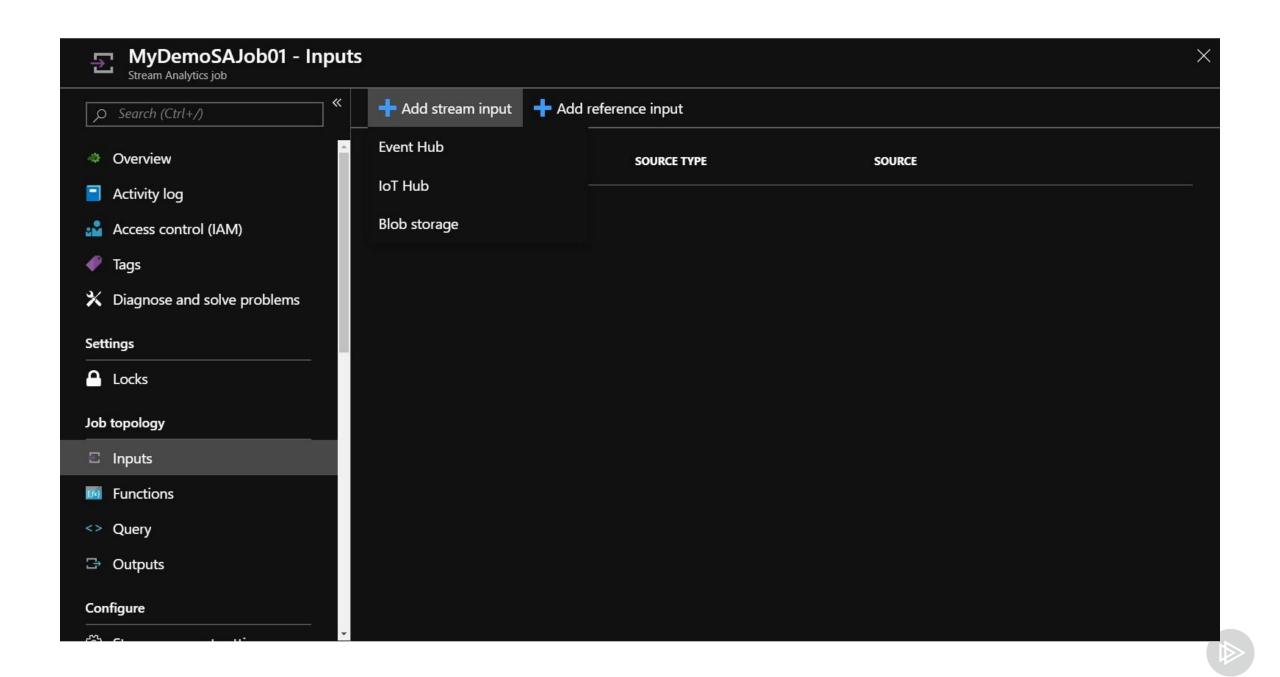


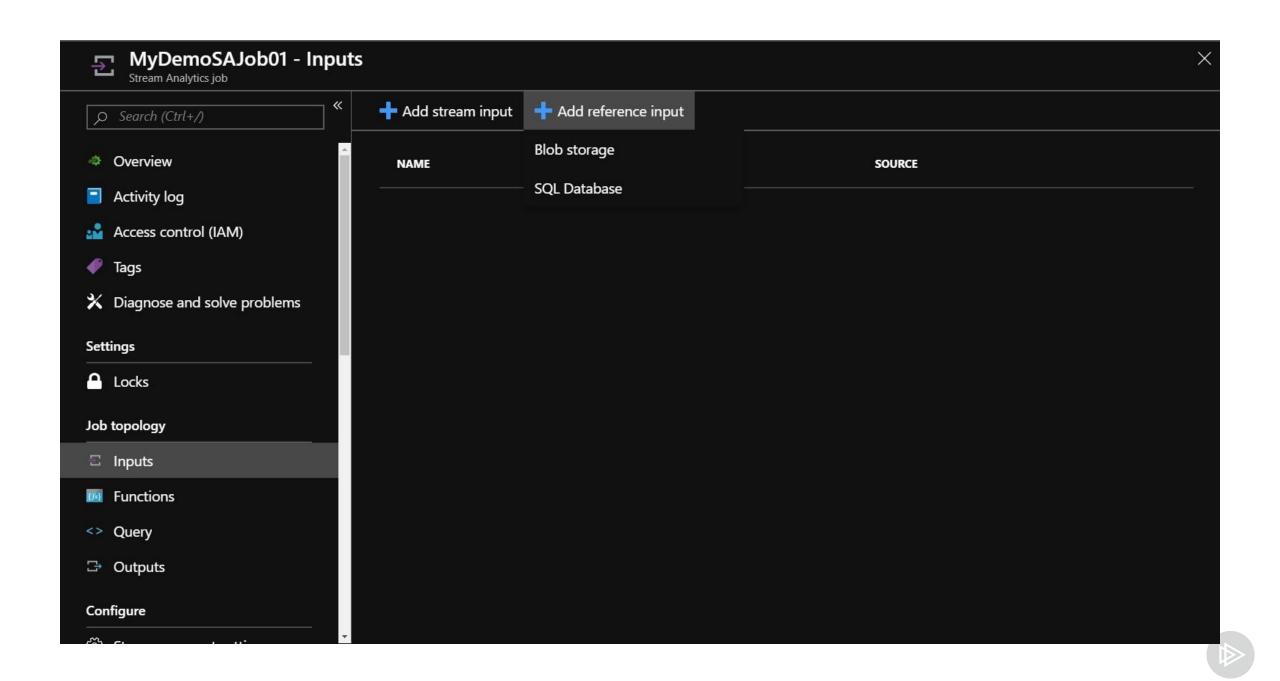


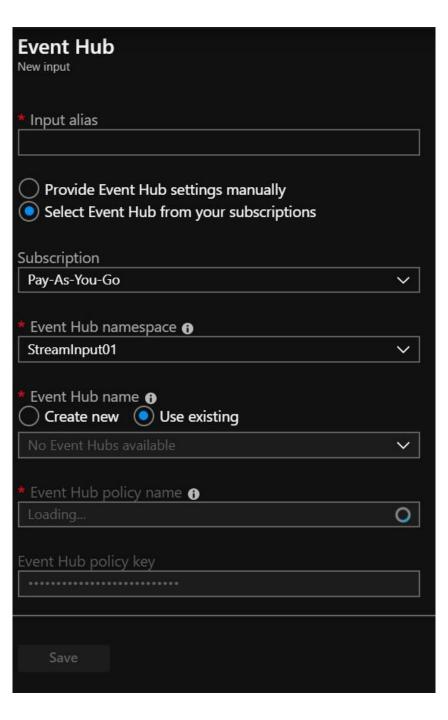














Demo



Setting the stage

- Provisioning an Event Hubs instance
- Creating a .NET application to send telemetry data to Azure Event Hubs



Demo



Configuring Azure Event Hubs input for Azure Stream Analytics



Summary



Overview of Azure Stream Analytics inputs

Input categories

- Reference and stream inputs

Supported reference inputs

- Azure Blob and Azure SQL Database

Supported stream inputs

- Azure Event Hubs, IoT Hub, and Blob

Steps to configure inputs

Demo: Working with Azure Stream Analytics inputs

