

MSc in Business Analytics – DMBI Assignment #3

Azure Stream Analytics

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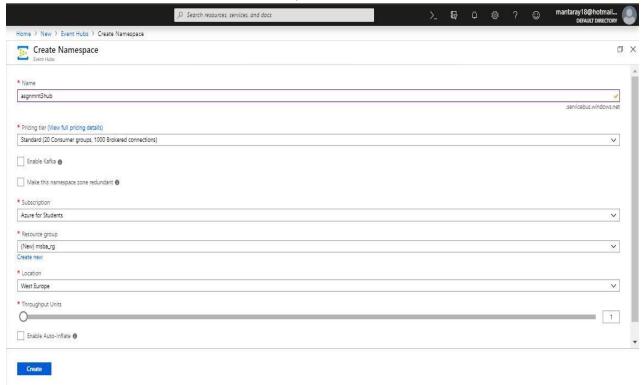


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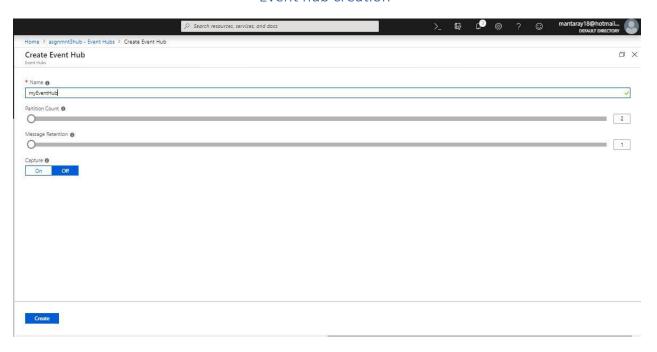
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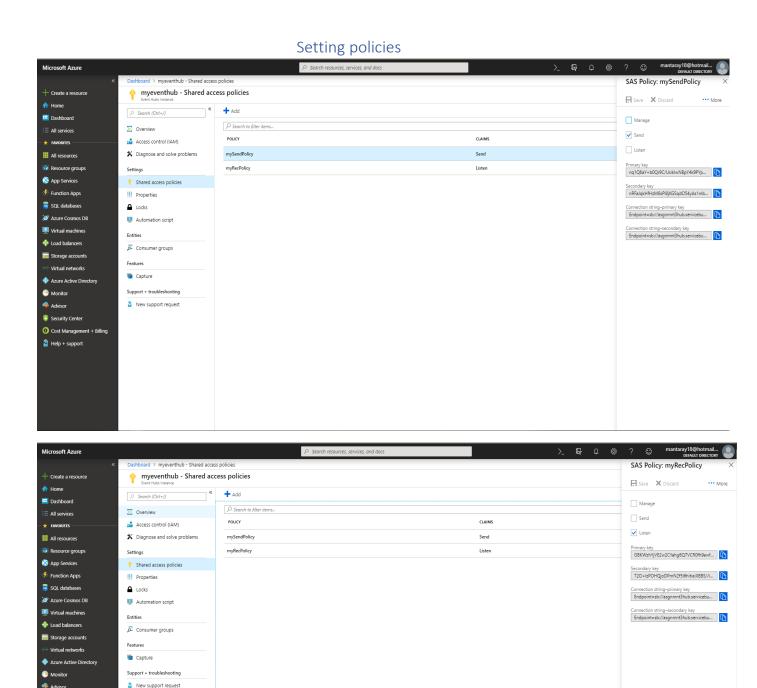
Steps of the procedure

Namespace creation



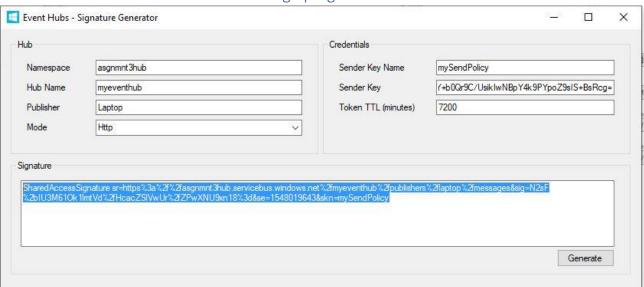
Event hub creation





Security CenterCost Management + BillingHelp + support

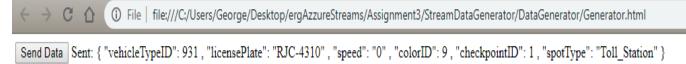
Setting up signature



Editing html configuration

```
/***********/
/*** CONFIG ***/
/************
//Use the signature generator: https://github.com/sandrinodimattia/RedDog/releases
var sas = "SharedAccessSignature sr=https%3a%2f%2fmscba-aueb.servicebus.windows.net%2feventhubdemo%2fpublishers%2flaptop%
var serviceNamespace = "mscba-aueb";
var hubName = "eventhubdemo";
var deviceName = "Laptop";
```

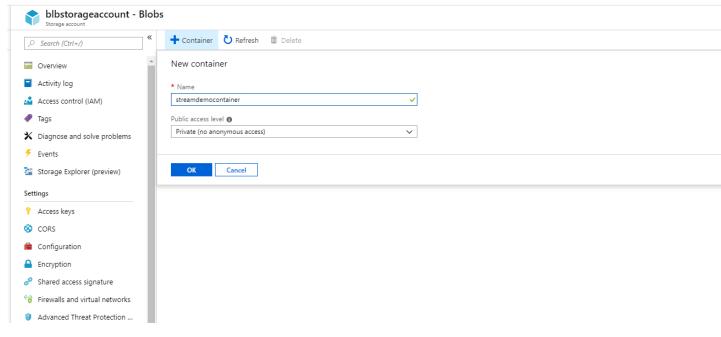
Feeding event hub with Generator.html



Blob Storage Account Creation

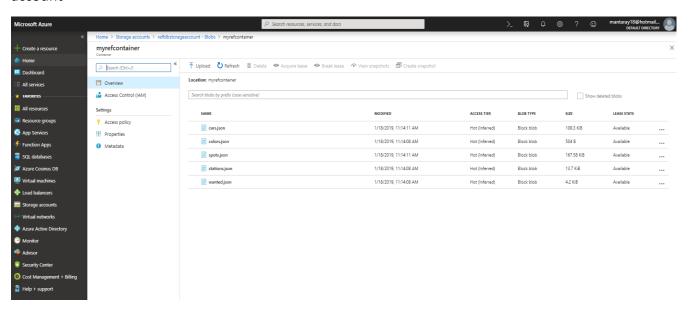
Create storage account Basics Advanced Tags Review + create Azure Storage is a Microsoft-managed service providing cloud storage that is highly available, secure, durable, scalable, and redundant. Azure Storage includes Azure Blobs (objects), Azure Data Lake Storage Gen2, Azure Files, Azure Queues, and Azure Tables. The cost of your storage account depends on the usage and the options you choose below. Learn more PROJECT DETAILS Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources. * Subscription Azure for Students * Resource group msba_rg Create new INSTANCE DETAILS The default deployment model is Resource Manager, which supports the latest Azure features. You may choose to deploy using the classic deployment model instead. Choose classic deployment model * Storage account name **1** blbstorageaccount * Location West Europe Standard Premium Performance 1 Account kind 6 BlobStorage ~ Replication ₍₁₎ Read-access geo-redundant storage (RA-GRS) 1 Accounts with the selected kind, replication and performance type only support block and append blobs. Page blobs, file shares, tables, and queues will not be available. Cool Hot Access tier (default) 6 Review + create Previous Next : Advanced >

Storage account container creation

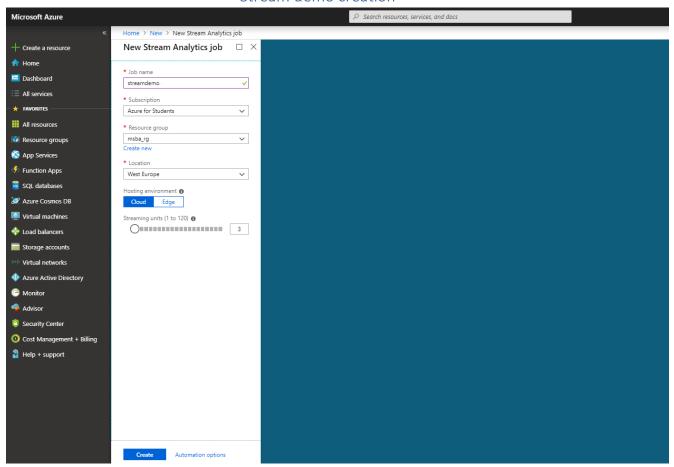


Reference data files

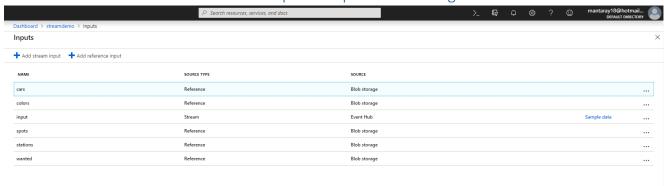
To make better use of our reference data files we first had to convert the txt files to csv via Exel and then to json with the help of an online converter. Particularly for the txt with the wanted license plates we had to add a "column" name on the beginning of the file to convert to a valid json file. After the transformations we uploaded our json reference file to another blob storage account

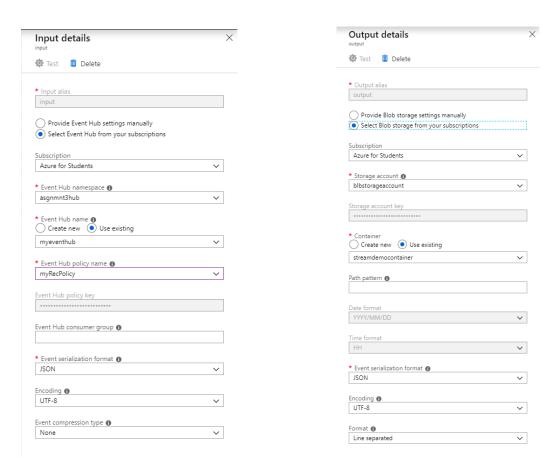


Stream demo creation



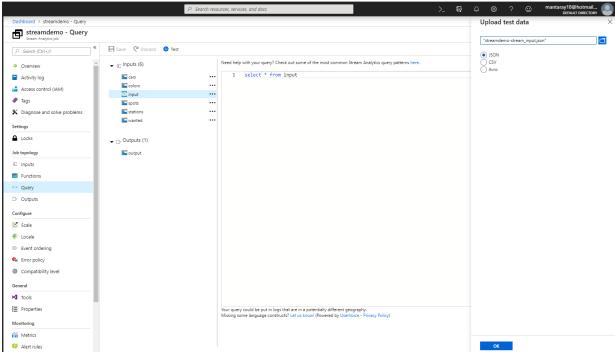
Stream Demo Inputs Outputs and Settings



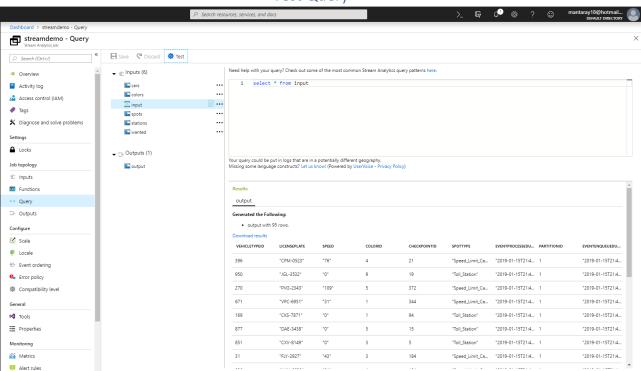


Input sample data for stream demo

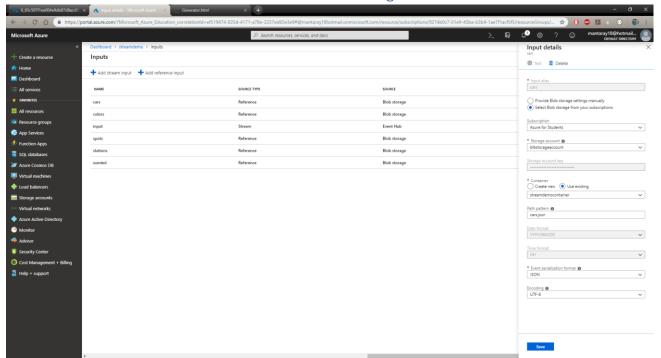
Upload input file for stream demo



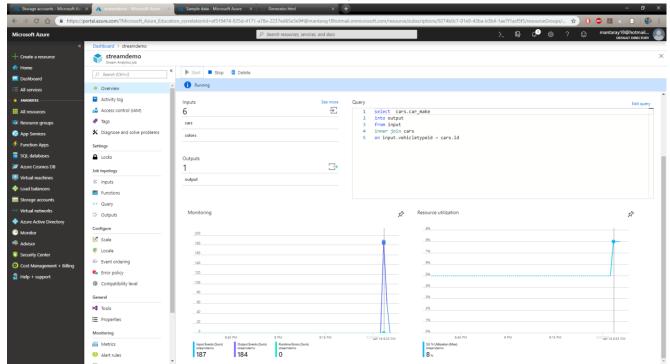
Test Query



Reference Data Settings



Stream Output



Generated Blob

