ΟΙΚΟΝΟΜΙΚΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΑΘΗΝΩΝ

ATHENS UNIVERSITY OF ECONOMICS AND BUSINESS

MSc in Business Analytics – DMBI
Assignment #3

Azure Stream Analytics

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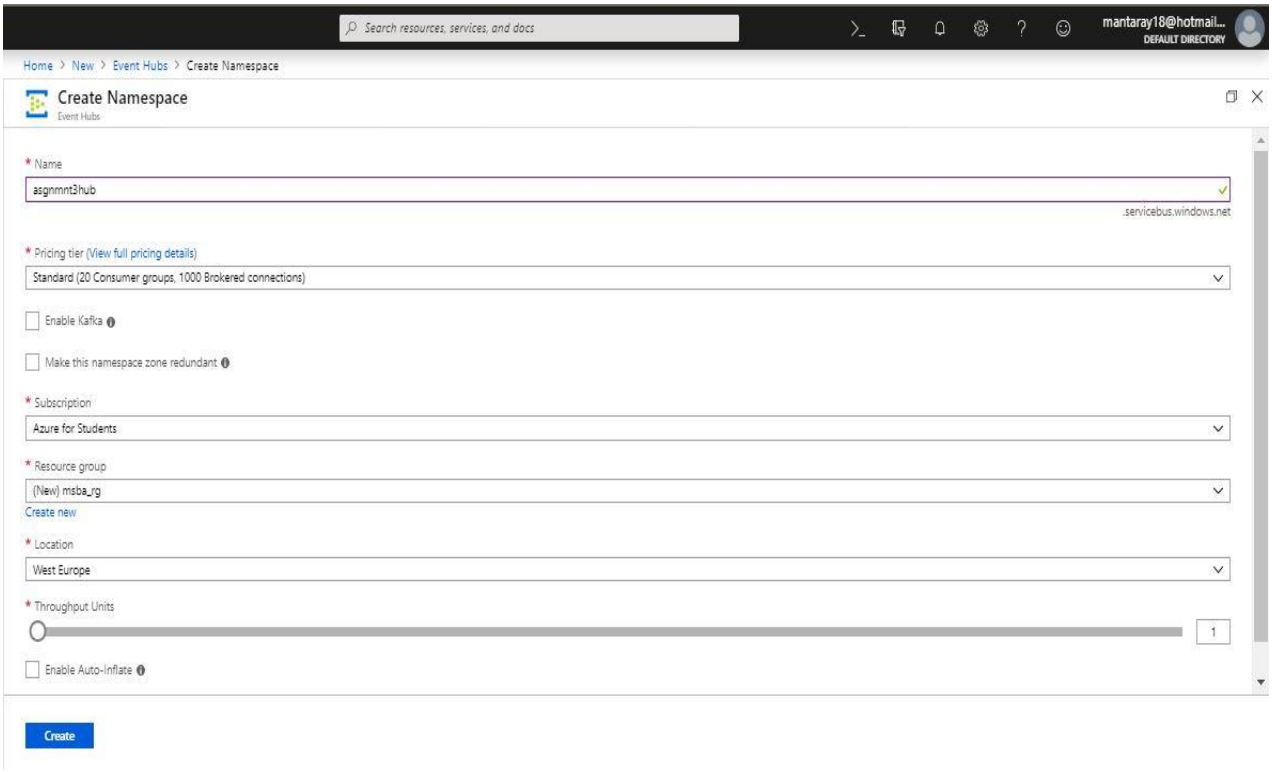
Fall Quarter Pt. 2018

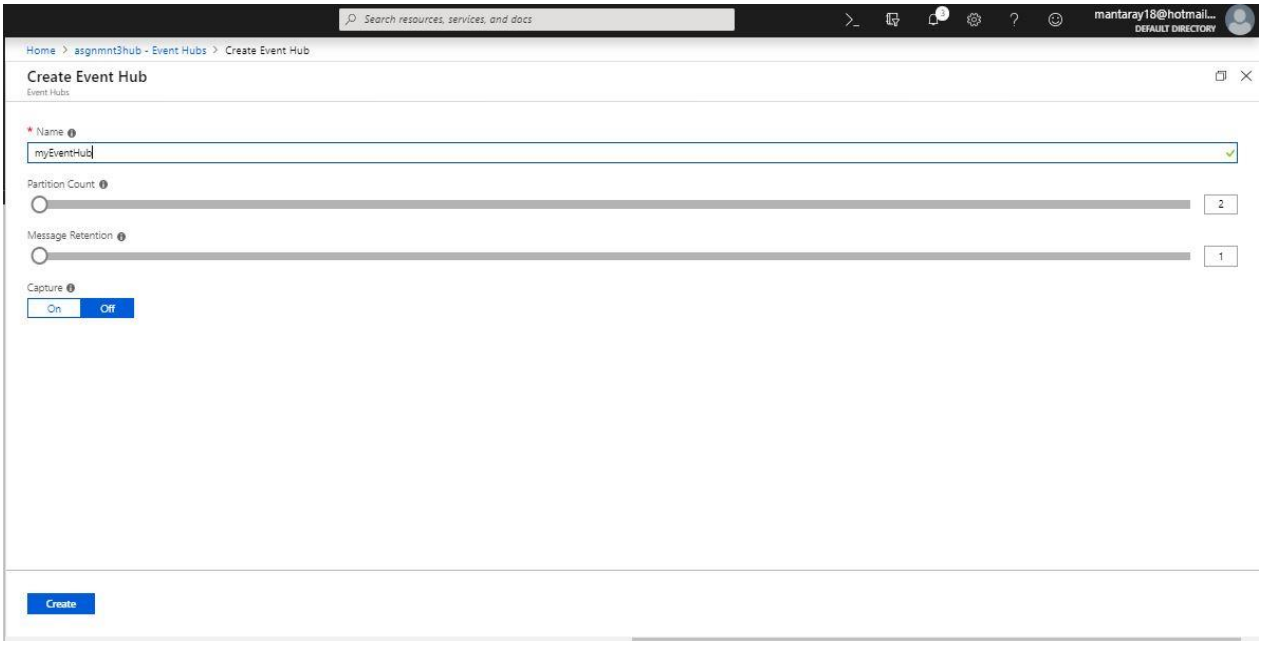
Contents

Steps of the procedure

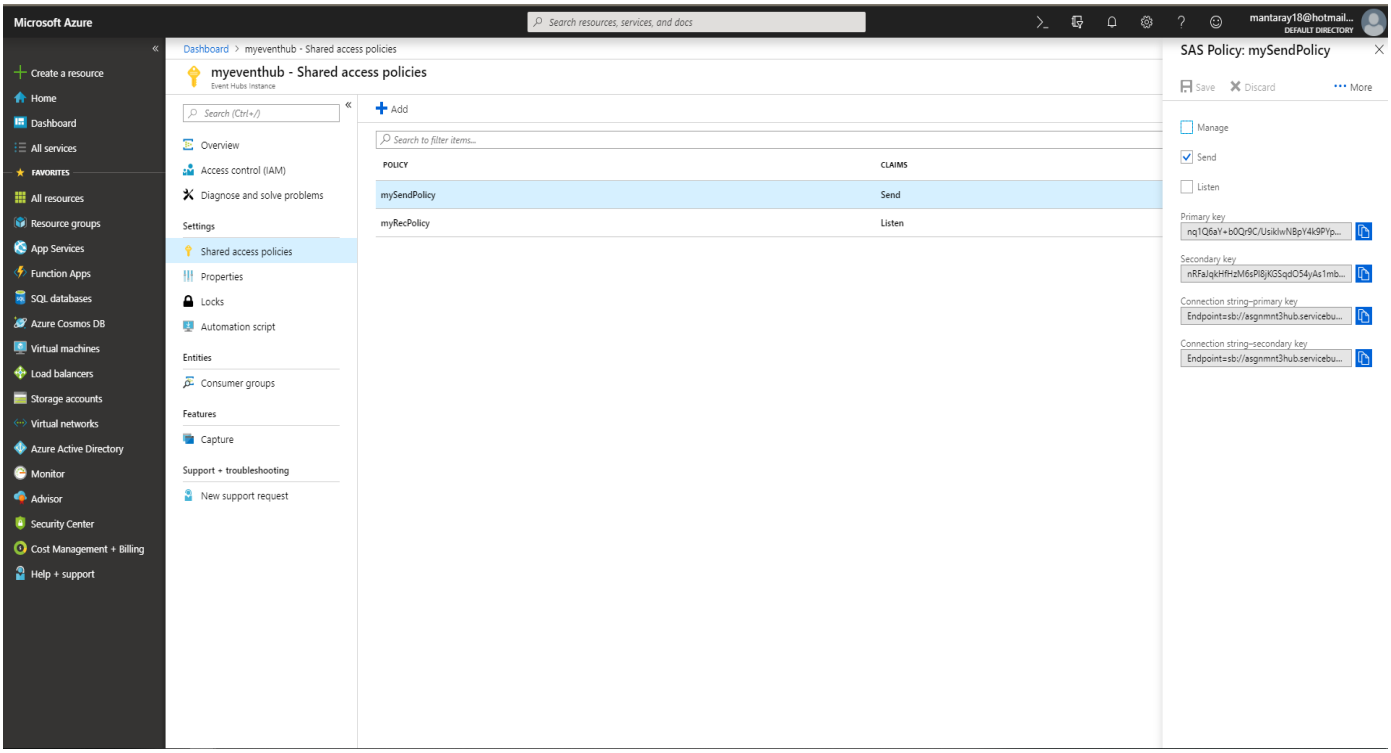
Namespace creation

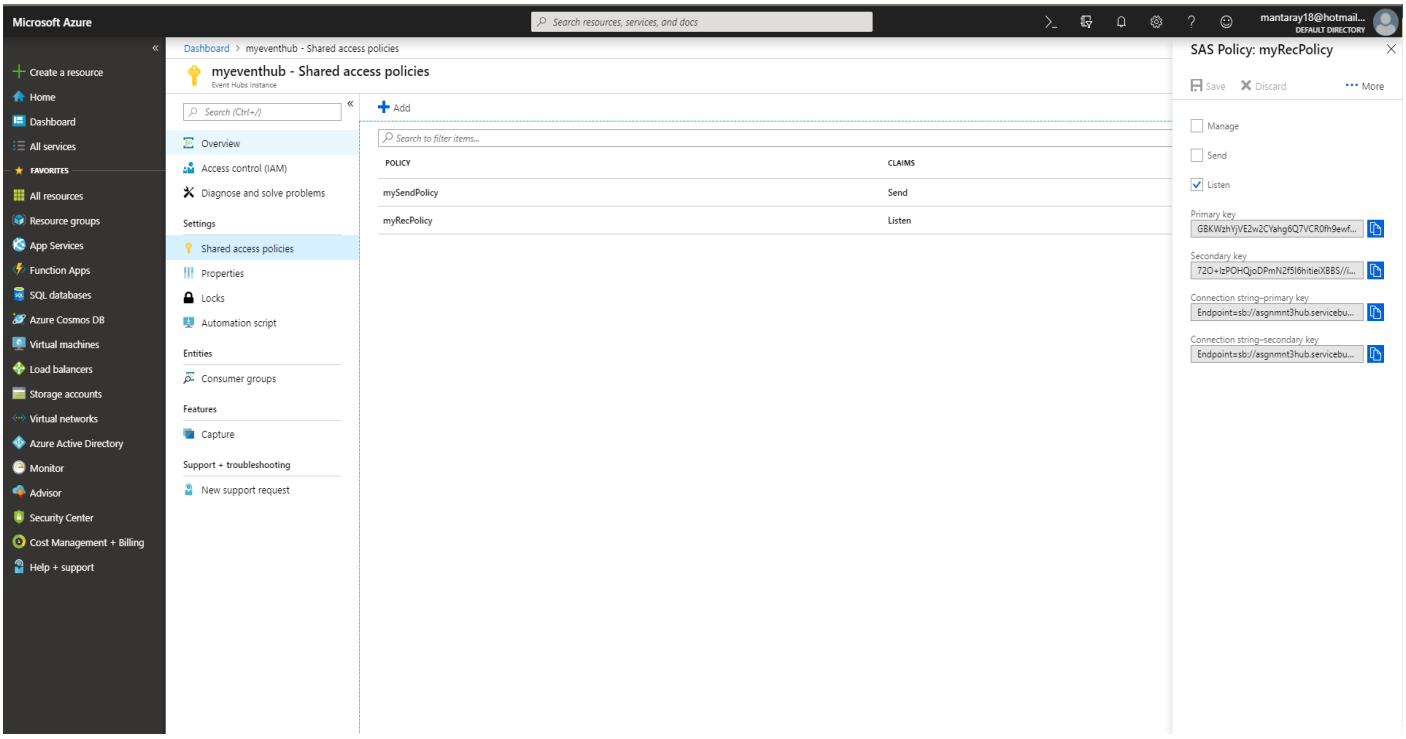


Event hub creation

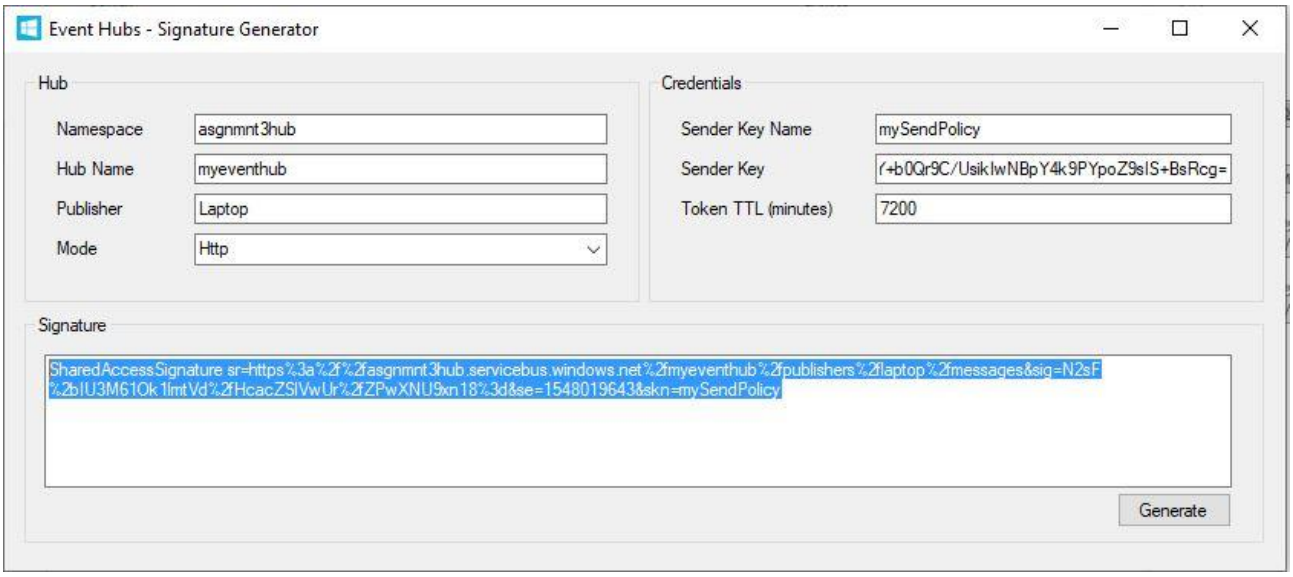


Setting policies





Setting up signature

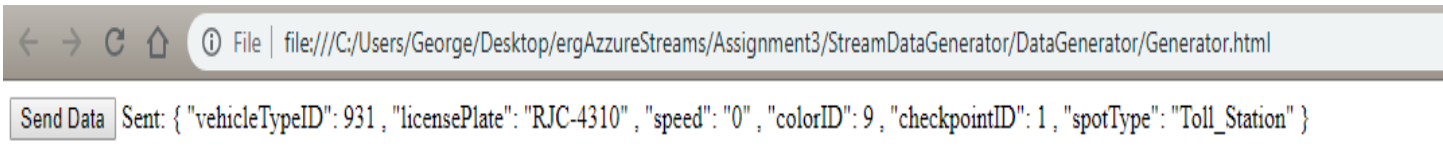


Editing html configuration

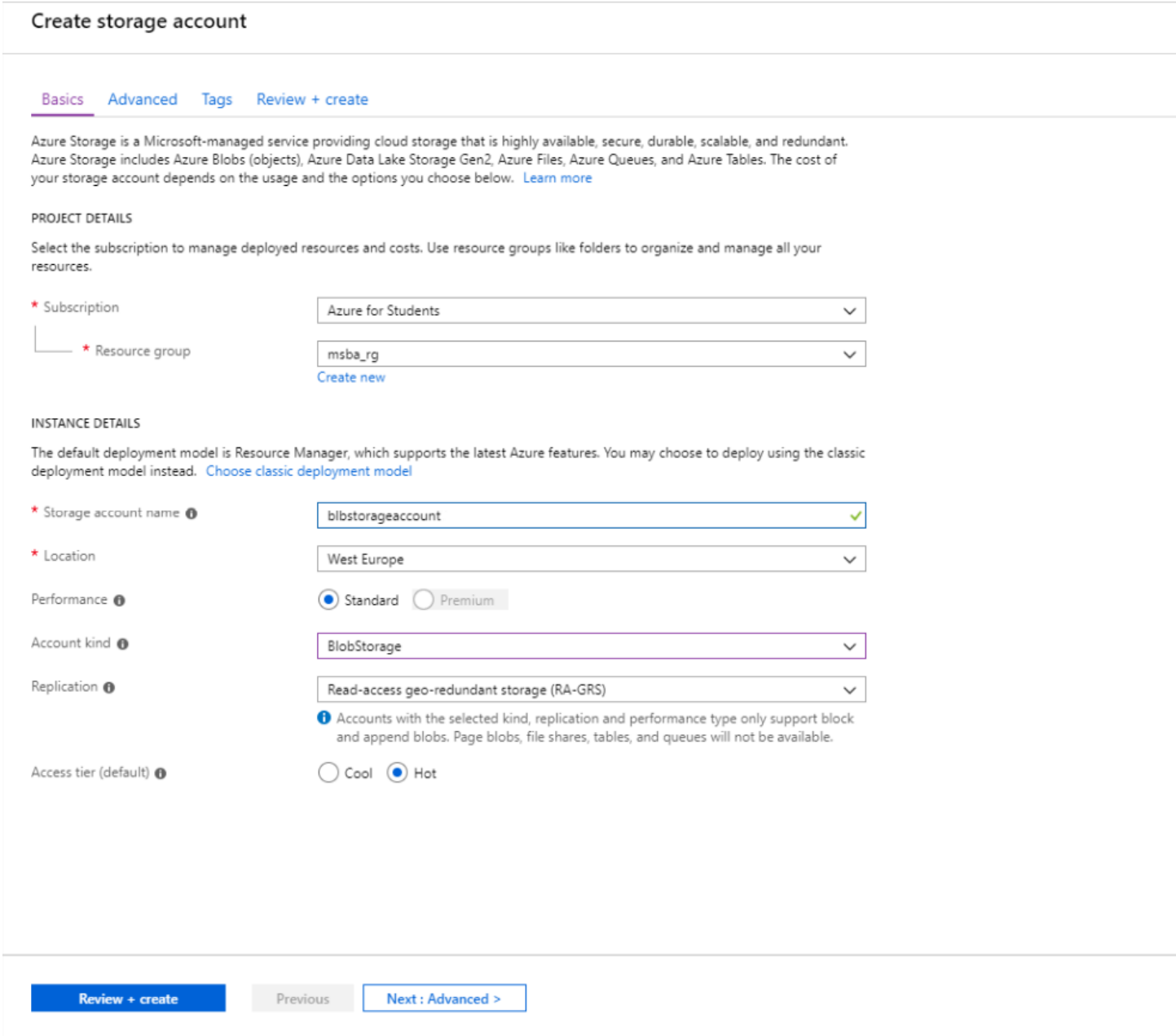
```
/**************/
/*** CONFIG ***/
/**************/

//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";
```

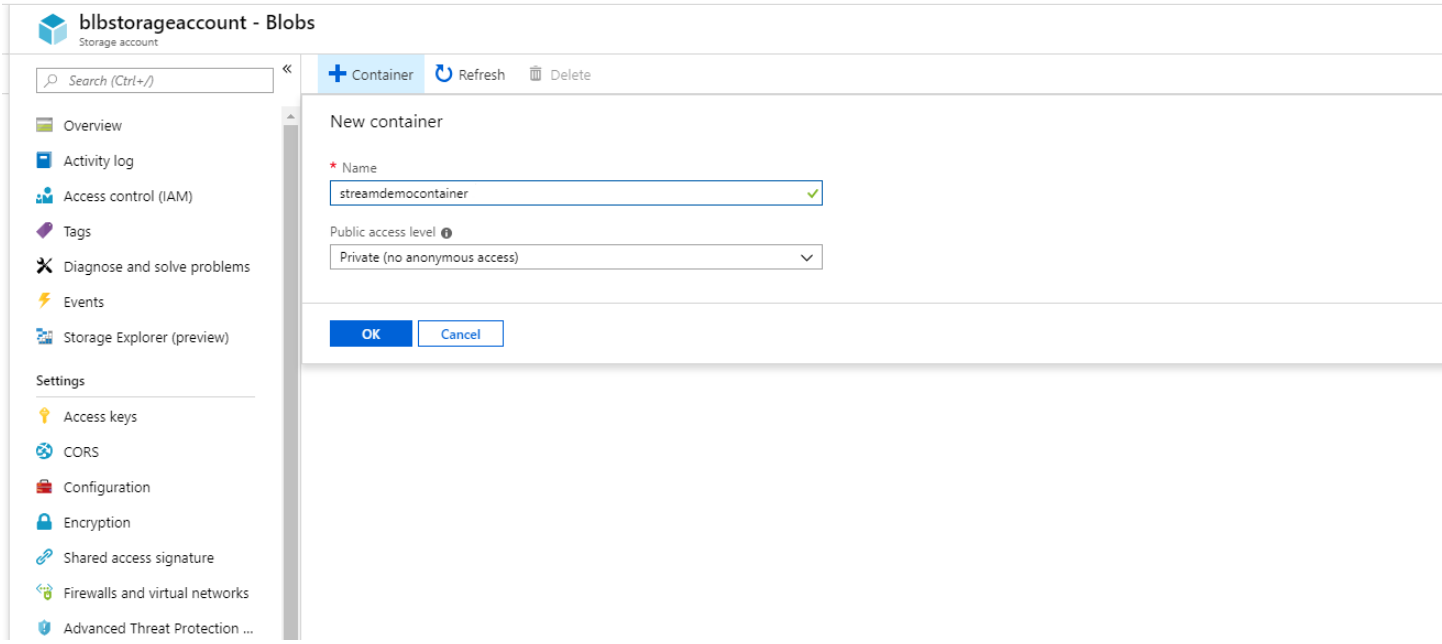
Feeding event hub with Generator.html



Blob Storage Account Creation

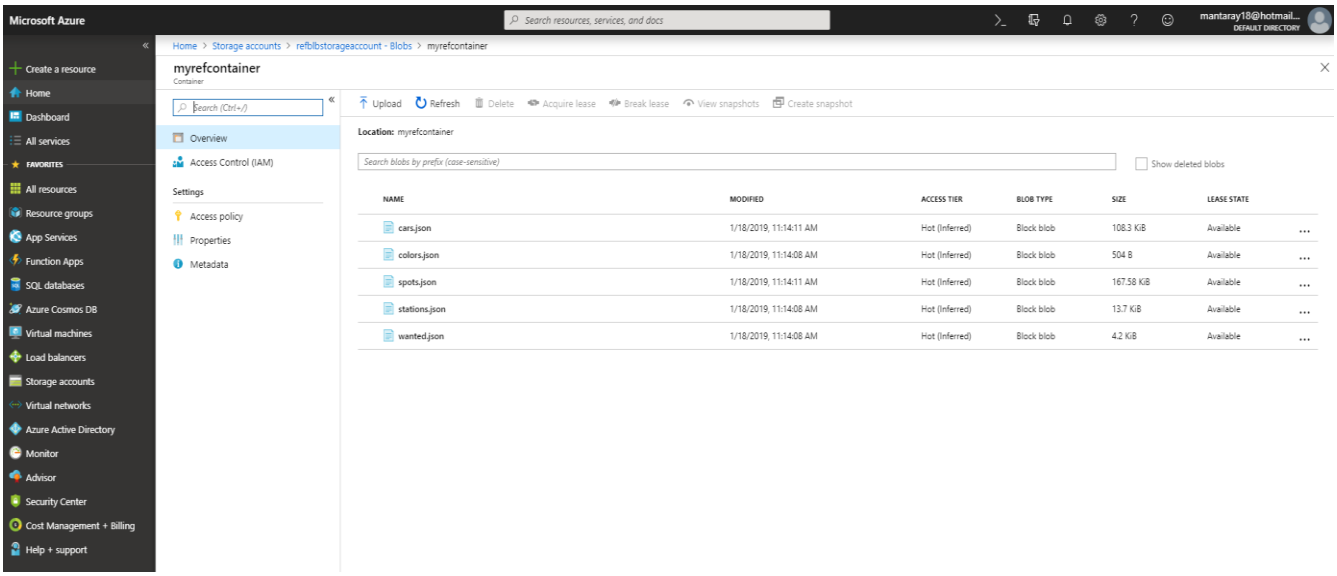


Storage account container creation

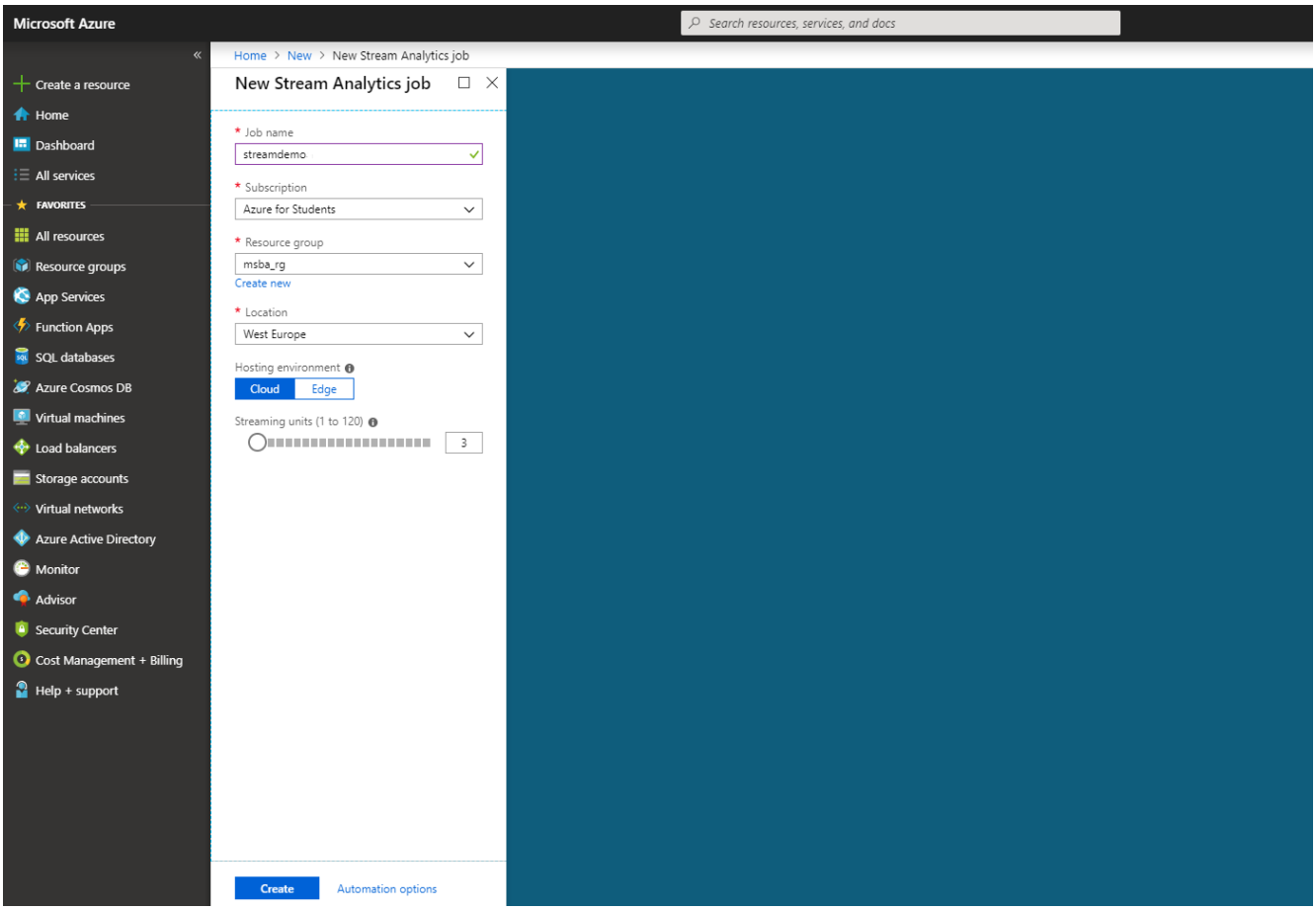


Reference data files

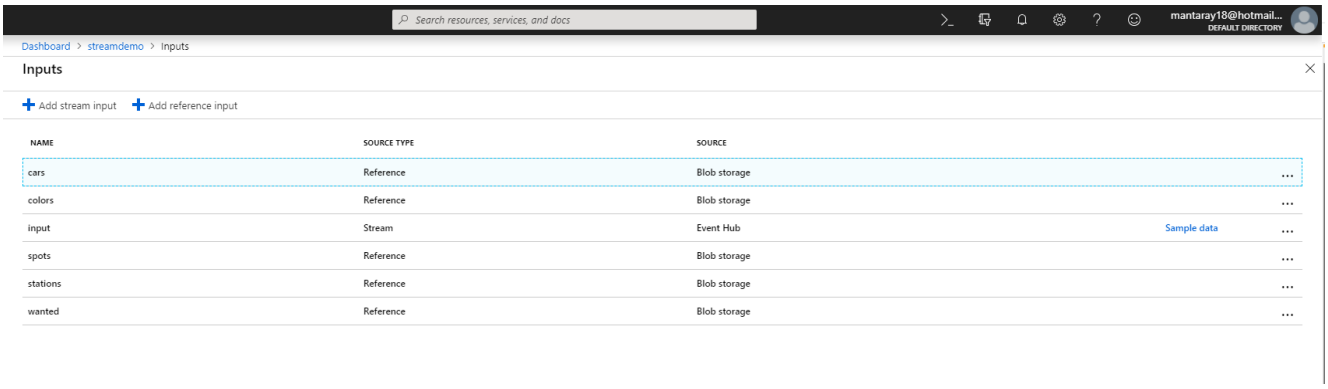
To make better use of our reference data files we first had to convert the txt files to csv via Exel and then to json with the help of an online converter. Particularly for the txt with the wanted license plates we had to add a “column” name on the beginning of the file to convert to a valid json file.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

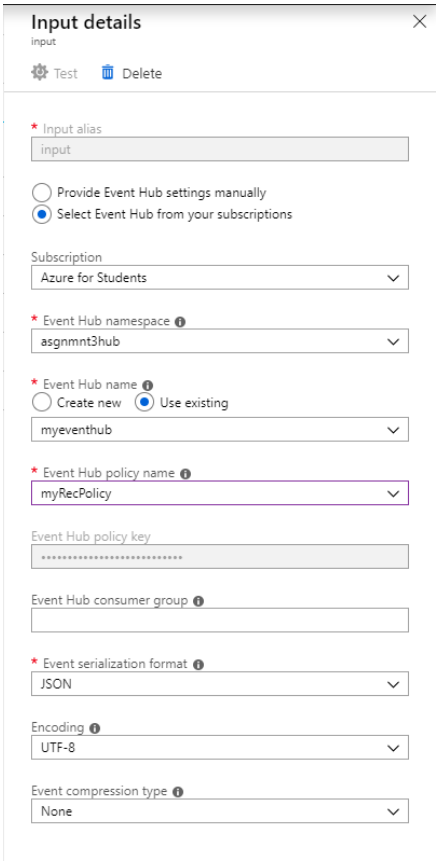


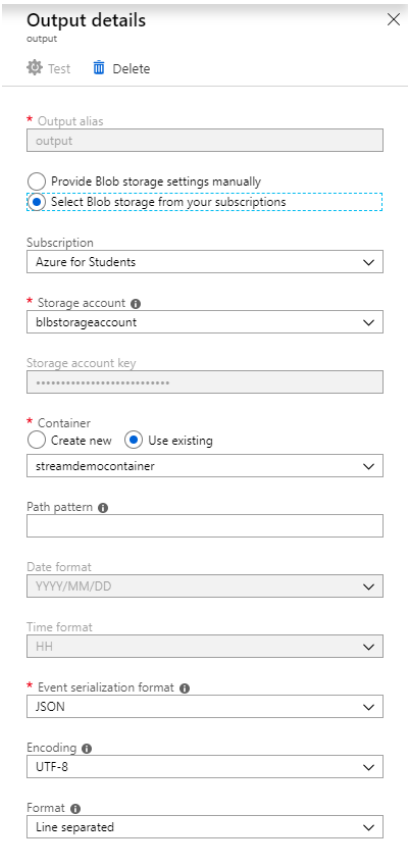
Stream demo creation



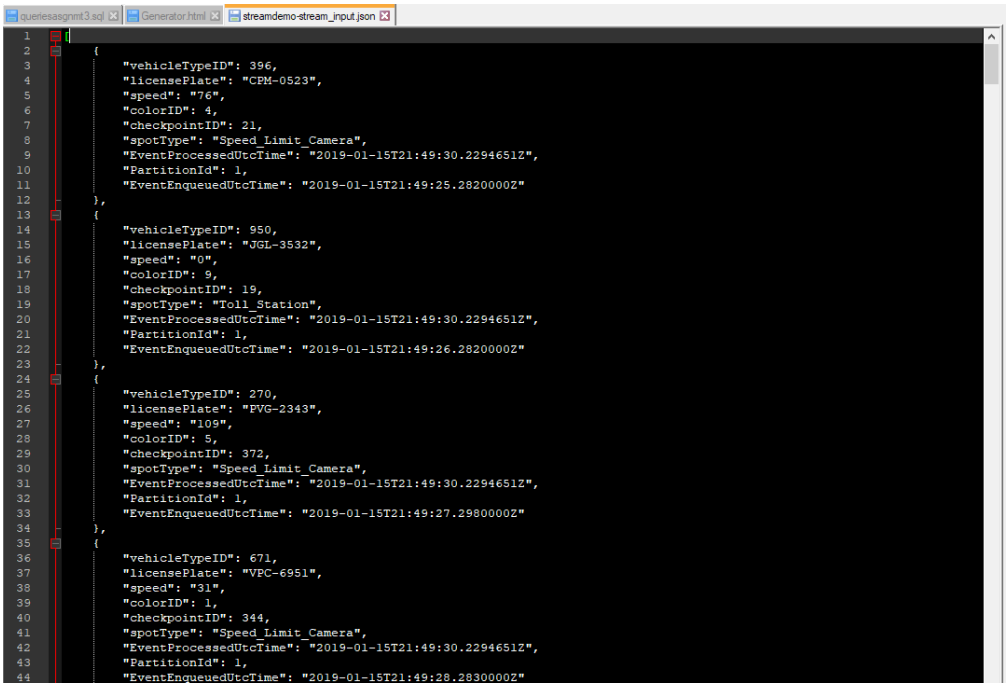
Stream Demo Inputs Outputs and Settings





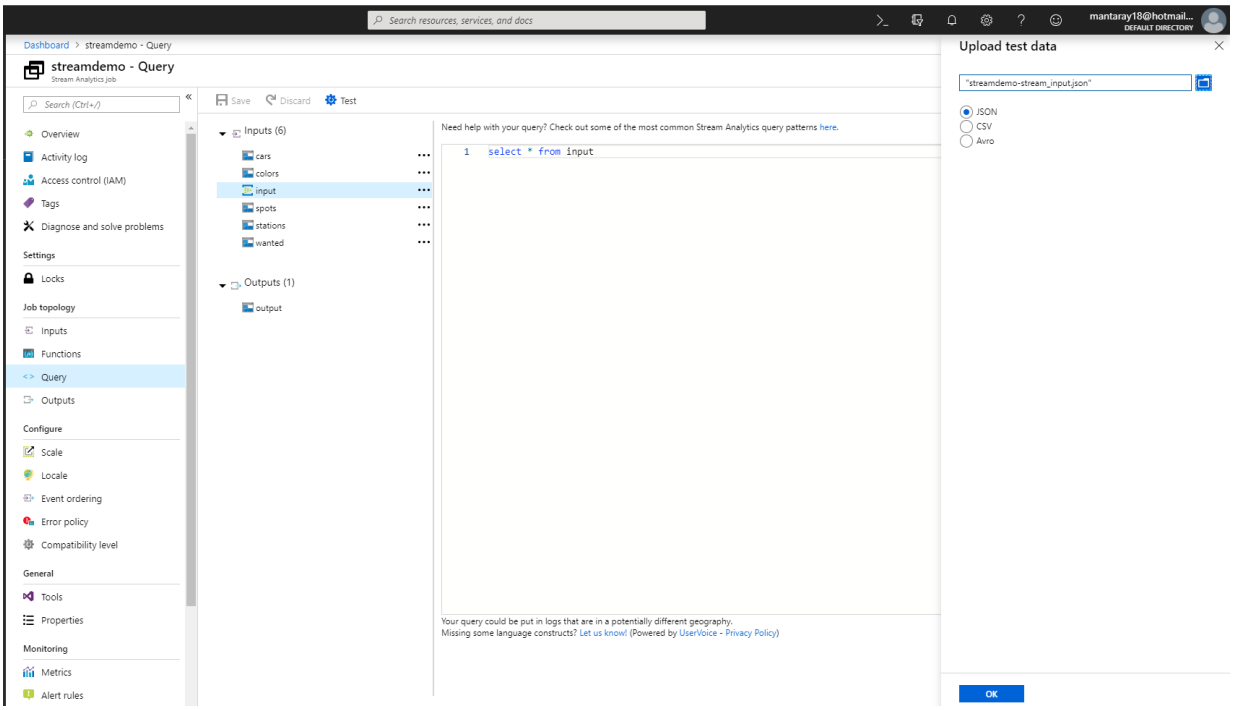


Input sample data for stream demo

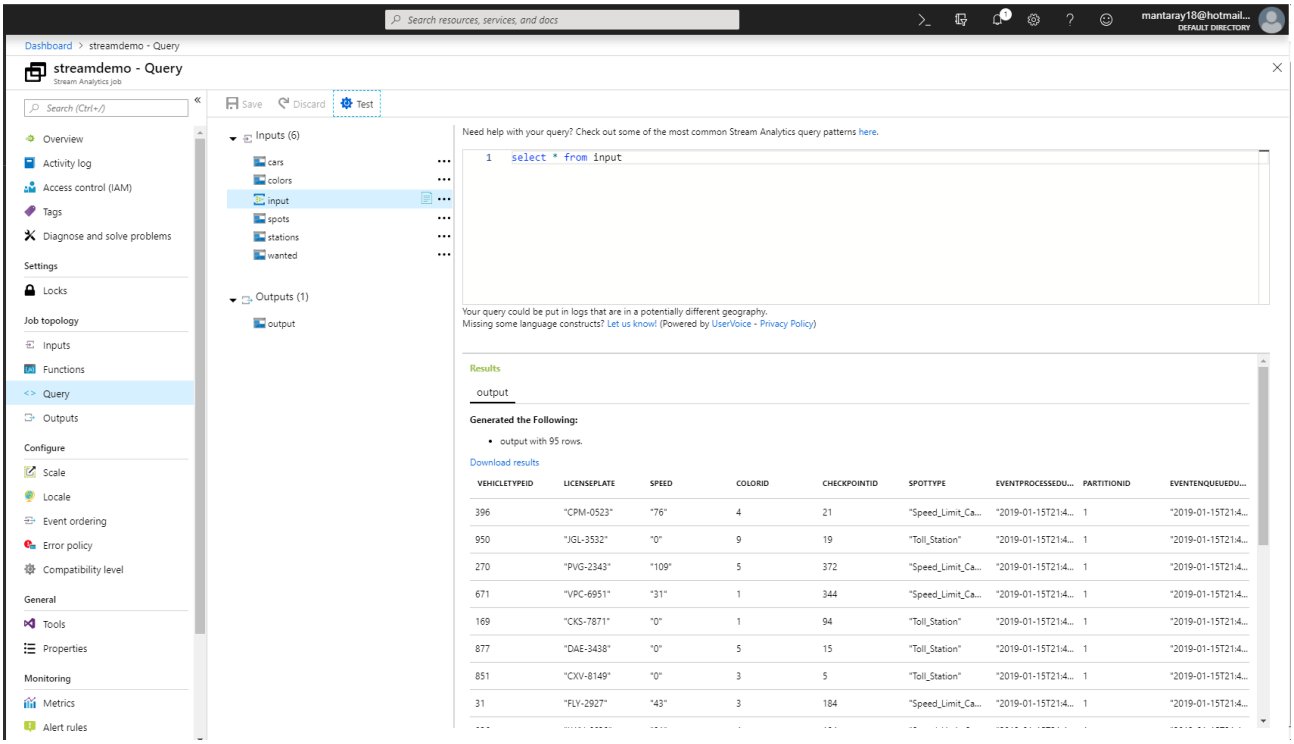


```
[
    {
        "vehicleTypeID": 396,
        "licensePlate": "CPM-0523",
        "speed": "76",
        "colorID": 4,
        "checkpointID": 21,
        "spotType": "Speed_Limit_Camera",
        "EventProcessedUtcTime": "2019-01-15T21:49:30.2294651Z",
        "PartitionId": 1,
        "EventEnqueuedUtcTime": "2019-01-15T21:49:25.2820000Z"
    },
    {
        "vehicleTypeID": 950,
        "licensePlate": "JGL-3532",
        "speed": "0",
        "colorID": 9,
        "checkpointID": 19,
        "spotType": "Toll_Station",
        "EventProcessedUtcTime": "2019-01-15T21:49:30.2294651Z",
        "PartitionId": 1,
        "EventEnqueuedUtcTime": "2019-01-15T21:49:26.2820000Z"
    },
    {
        "vehicleTypeID": 270,
        "licensePlate": "PVG-2343",
        "speed": "109",
        "colorID": 5,
        "checkpointID": 372,
        "spotType": "Speed_Limit_Camera",
        "EventProcessedUtcTime": "2019-01-15T21:49:30.2294651Z",
        "PartitionId": 1,
        "EventEnqueuedUtcTime": "2019-01-15T21:49:27.2980000Z"
    },
    {
        "vehicleTypeID": 671,
        "licensePlate": "VPC-6951",
        "speed": "31",
        "colorID": 1,
        "checkpointID": 344,
        "spotType": "Speed_Limit_Camera",
        "EventProcessedUtcTime": "2019-01-15T21:49:30.2294651Z",
        "PartitionId": 1,
        "EventEnqueuedUtcTime": "2019-01-15T21:49:28.2830000Z"
```

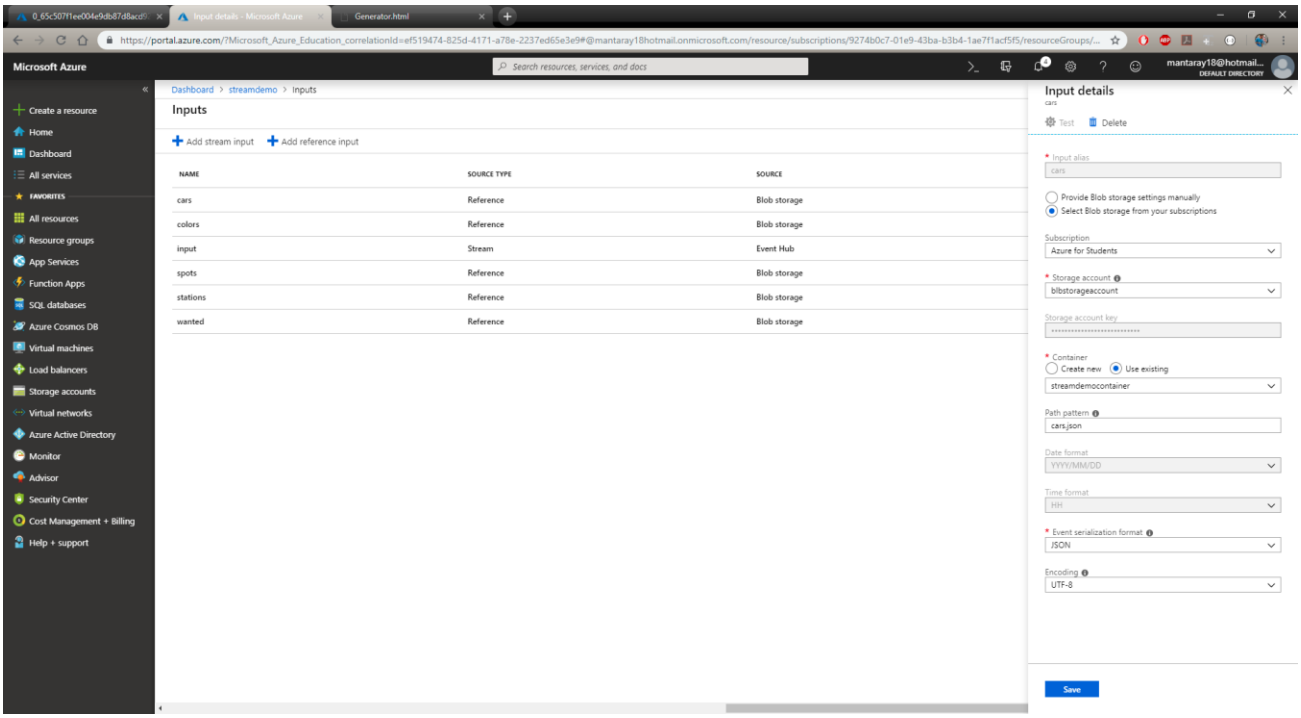
Upload input file for stream demo



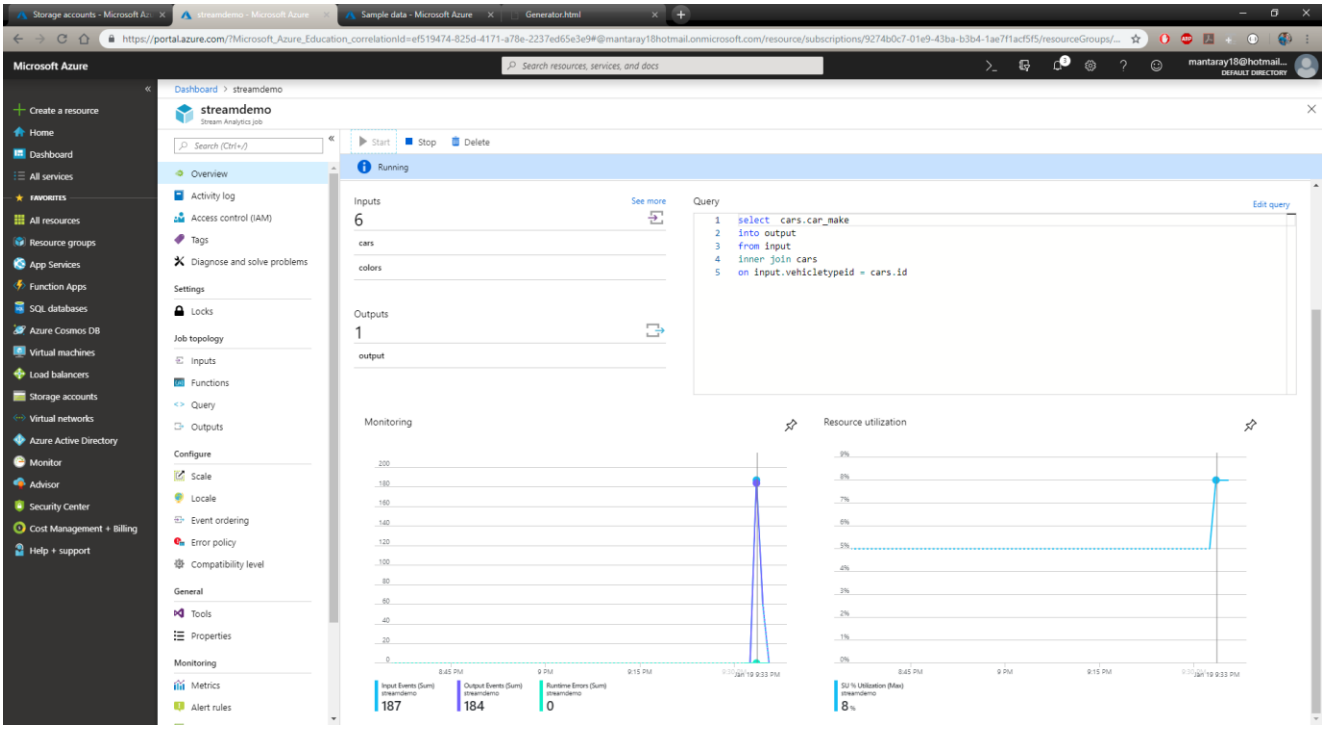
Test Query



Reference Data Settings



Stream Output



Generated Blob