

1# Create a resource group

The screenshot displays the Microsoft Azure portal interface. On the left is a navigation sidebar with various service categories. The main area is divided into two panes. The left pane, titled 'Resource groups' for 'Game On Media Ltd.', shows a list of 15 existing resource groups. The right pane, titled 'Resource group', contains a form to create a new resource group.

Resource groups (Game On Media Ltd.)

Filter by name...

15 items

NAME	
DefaultResourceGroup-NET	...
GameOnMedia-Test	...
sparkzeppelin-demo	...
sparkzeppelin-demo	...
testPuppet	...
api_services	...
kingdom-hearts	...
DefaultResourceGroup-NET	...
GameOnMedia-Test	...
sparkzeppelin-demo	...
sparkzeppelin-demo	...
sparkzeppelin-demo	...
sparkzeppelin-demo	...
sparkzeppelin-demo	...
sparkzeppelin-demo	...
sparkzeppelin-demo	...
sparkzeppelin-demo	...

Resource group
Create an empty resource group

* Resource group name: streamingdemo ✓

* Subscription: Beta Projects Dev/Test

* Resource group location: North Europe

Create

#2 Create streaming analytics job

Microsoft Azure New > Stream Analytics job > New Stream Analytics Job

Search resources, services and docs

Stream Analytics job

Azure Stream Analytics is a fully managed, cost effective real-time event processing engine that helps to unlock deep insights from data. Stream Analytics makes it easy to set up real-time analytic computations on data streaming from devices, sensors, web sites, social media, applications, infrastructure systems, and more.

With a few clicks in the Azure portal, you can author a Stream Analytics job specifying the input source of the streaming data, the output sink for the results of your job, and a data transformation expressed in a SQL-like language. You can monitor and adjust the scale/speed of your job in the Azure portal to scale from a few kilobytes to a gigabyte or more of events processed per second.

Stream Analytics leverages years of Microsoft Research work in developing highly tuned streaming engines for time-sensitive processing, as well as language integrations for intuitive specifications of such.

IoT Hub → Stream Analytics → Dashboard, Alerts, Storage

Create

New Stream Analytics Job

* Job name: streamjobdemo ✓

* Subscription: Beta Projects Dev/Test

* Resource group: Create new Use existing streamingdemo

* Location: North Europe

Hosting environment: Cloud Edge

☐ Pin to dashboard

Create Automation options

3# create event hub

Microsoft Azure New > Event Hubs > Create namespace

Search resources, services and docs

Event Hubs

Azure Event Hubs is a highly scalable publish-subscribe service that can ingest millions of events per second and stream them into multiple applications. This lets you process and analyze the massive amounts of data produced by your connected devices and applications.

Use Event Hubs to:

- Log millions of events per second in near real time.
- Connect devices using flexible authorization and throttling.
- Use time-based event buffering.
- Get a managed service with elastic scale.
- Reach a broad set of platforms using native client libraries.
- Pluggable adapters for other cloud services.

Event Hubs namespace

Create namespace

* Name: streamhubdemo ✓

* Pricing tier: Standard

* Subscription: Beta Projects Dev/Test

* Resource group: Create new Use existing streamingdemo

* Location: North Europe

Throughput Units: 1

☐ Enable auto-inflate?

Specify Upper Limit: 20

☐ Pin to dashboard

Create Automation options

3.1 In streamhubdemo (Event Hub tool) create add an event hub. Click on “+ Event hub” in the menu.

streamhubdemo
Event Hub

Search (Ctrl+/)

+ Event Hub Delete

Resource group (change)
streamingdemo

Status
Active

Provisioning state
Succeeded

Created
Wednesday, December 13, 2017

NAMESPACE CONTENTS
1 EVENT HUB

PRICING TIER
STANDARD

NAMESPACE STATUS
ACTIVE

THROUGHPUT UNITS
1 UNIT

Requests Messages Throughput

3.2 click in the new event hub

streamhubdemo
Event Hub

Search (Ctrl+/)

+ Event Hub Delete

Resource group (change)
streamingdemo

Status
Active

Provisioning state
Succeeded

Location
North Europe

Subscription (change)
Beta Projects Dev/Test

Subscription ID
c0936746-f46c-48e6-875a-a9cf9b48d592

Created
Wednesday, December 13, 2017

Updated
Wednesday, December 13, 2017

Connection Strings
Connection Strings

NAMESPACE CONTENTS
1 EVENT HUB

PRICING TIER
STANDARD

NAMESPACE STATUS
ACTIVE

THROUGHPUT UNITS
1 UNIT

Show metrics data for the last: 1 hour 6 hours 12 hours

Requests Messages Throughput

INCOMING REQUESTS...
19

SUCCESSFUL REQES...
19

SERVER ERRORS (P...
--

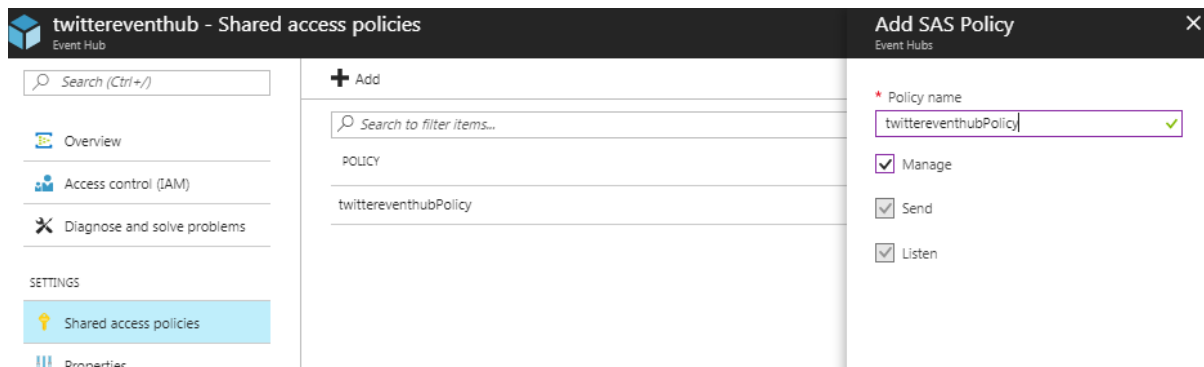
USER ERRORS (PRE...
--

THROTTLED REQUEST...
--

Search to filter items...

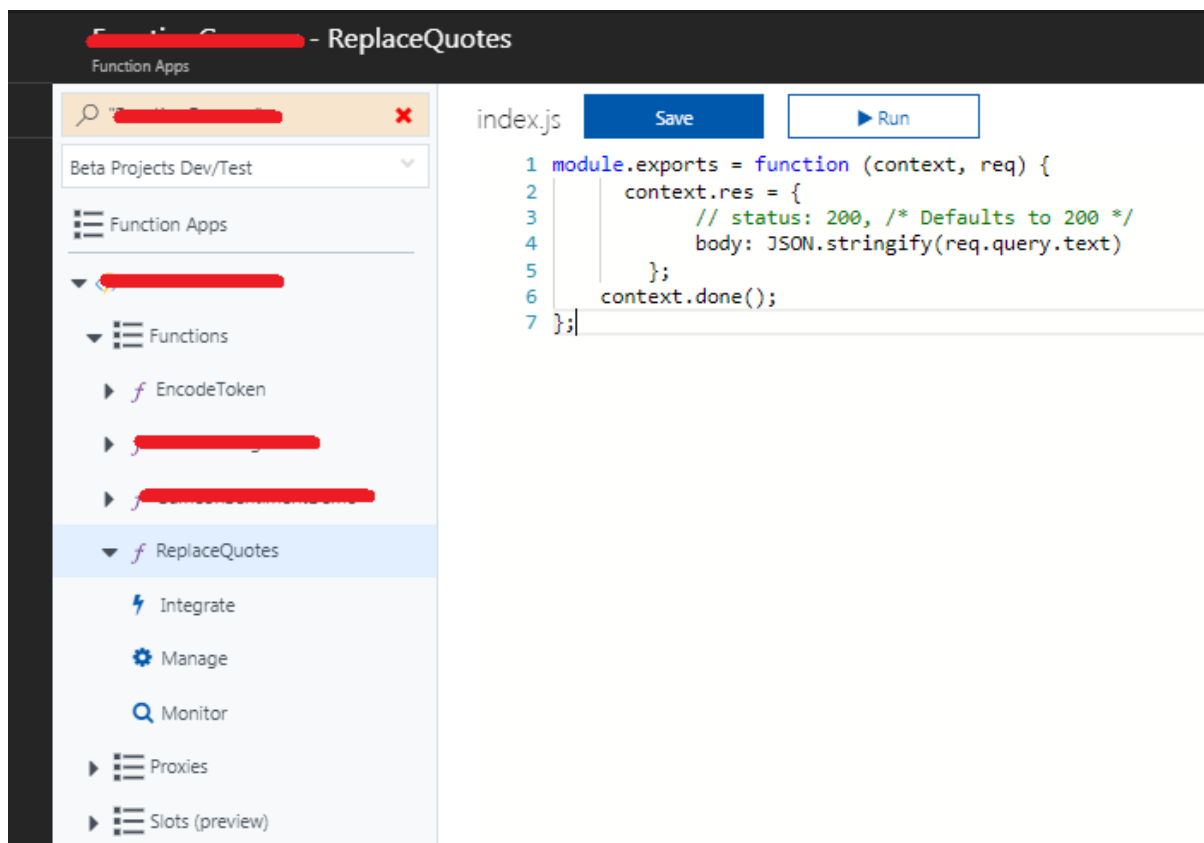
NAME	STATUS	MESSAGE RETENTION	PAI
twittereventhub	Active	1	2

3.3 create a Shared policy, with all the checkbox selected

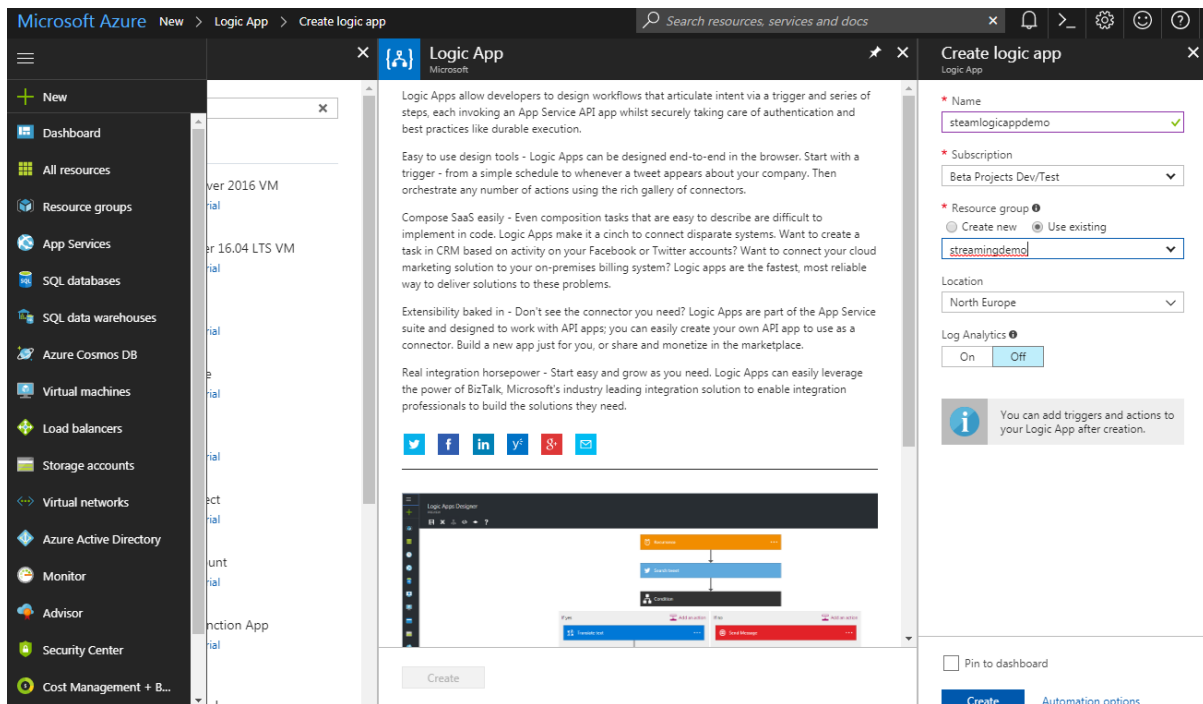


4# Some of the tweets have quotes so in order to not break the json we need a function to cover us, in this case an javascript one, base on a GET method. Note: if you don't have time or you don't mind skip those tweets you can go to number 5 step.

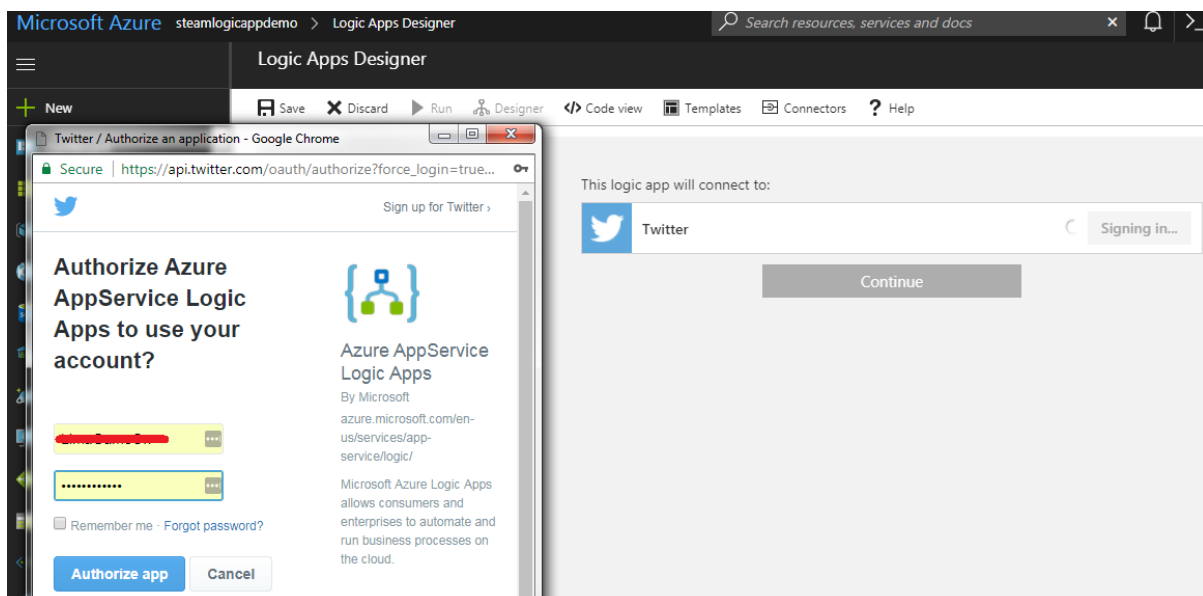
Code in the file "ReplaceQuotes.txt"



5 #Create Azure logic apps

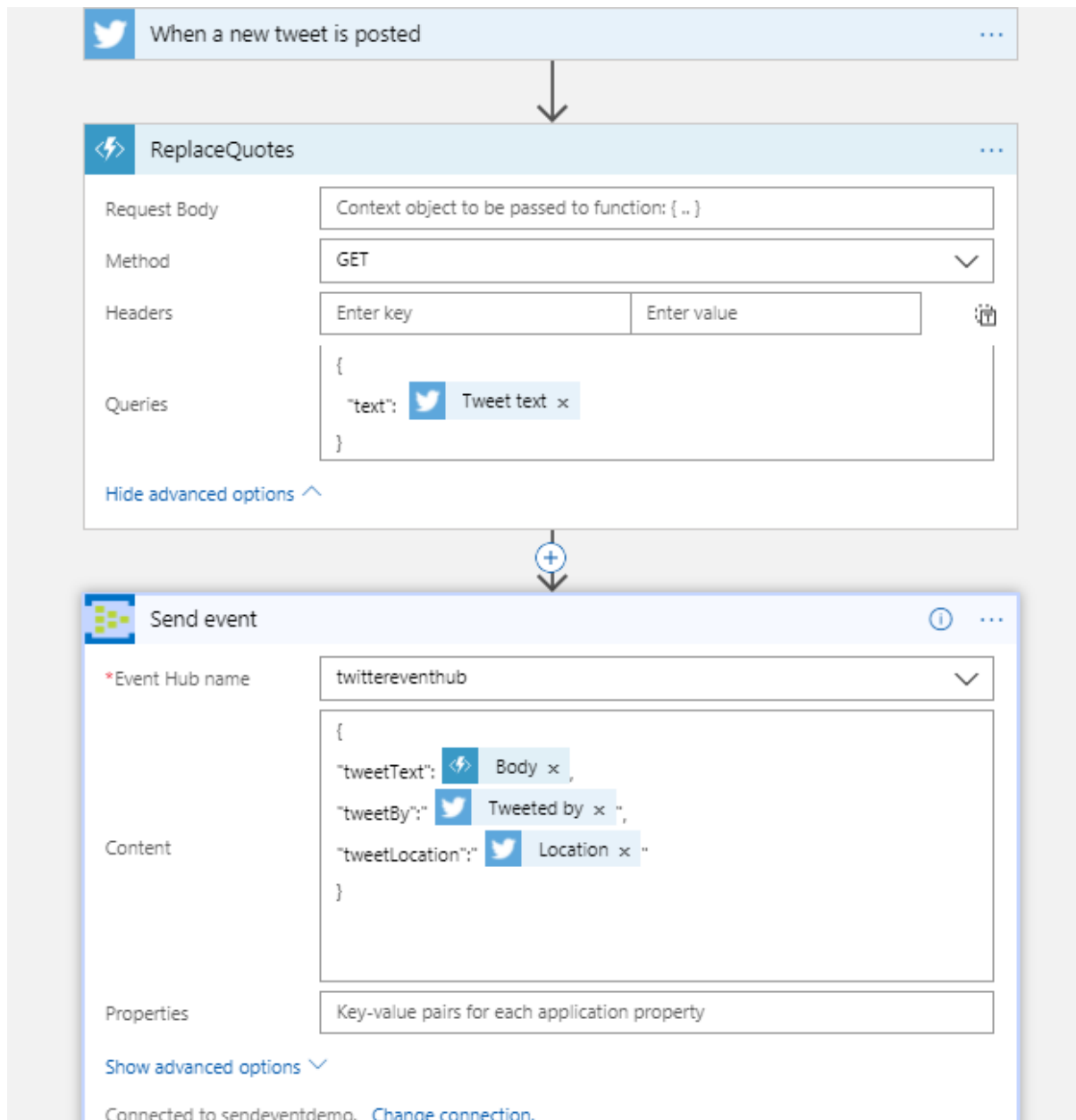


5.1 Create trigger using twitter, login in and authorize.



5.2 create an step with azure functions and use the method GET with the json format to call it.

Then, create an Event hub Send and write a connection name and select an event hub to send and click in the event hub policy, then click create. After that the event hub will change and you can put the content in a json format using the the tweet info and the body of the result of the function.



6. Create an input and output in the streaming job.

The input will be the event Hub and the output will be on PowerBI (The data set and the table will be created and if already exist will be rewritten).

Input details

⚙️ Test

📄 Sample Data

🗑️ Delete

⚠️ Warning

Could not deserialize the input event(s) from resource 'Position: [0], Offset: [1939728], SequenceNumber: [7437]' as Json. Some possible reasons: 1) Malformed events 2) Input source configured with incorrect serialization format

Inputs can't be added or edited while a job is running. You can stop the job to add or edit inputs.

★ Import option

Provide event hub settings manually

★ Service bus namespace ⓘ

streamhubdemo

★ Event hub name ⓘ

twittereventhub

★ Event hub policy name ⓘ

twittereventhubPolicy

Event hub policy key ⓘ

Event hub consumer group ⓘ

★ Event serialization format ⓘ

JSON

Encoding ⓘ

UTF-8

Event compression type ⓘ

None

Output detailsstreamtwitter

⚙️ Test

🗑️ Delete

ℹ️ Outputs can't be added or edited while a job is running. You can stop the job to edit the outputs.

Group Workspace

Loading...

★ Dataset Name

streamtwitter

⚠️ If the dataset or table already exists in your Microsoft Power BI subscription, it will be overwritten.

★ Table Name

streamtwitterTable

Currently authorized as: [redacted]

[redacted]

Authorization

Click the button below if you want to renew authorization, authorize with a different account, or modify the workspace.

Renew authorization

7. Open Power Bi, select the dataset and put the data, in this case we are gonna see people tweets base in the location using a map.

