

# Logic Apps on Microsoft Azure

Logic Apps helps you to build complex workflows in simple steps using any of its 200+ connectors. As the Logic Apps are serverless, you do not need to worry about server sizing. The platform will scale to meet your demand and you will be charged only for what you use. Logic Apps provides a drag and drop developer experience in which pretty much any level of developer can drag shapes on to a UI and create a really powerful solution.

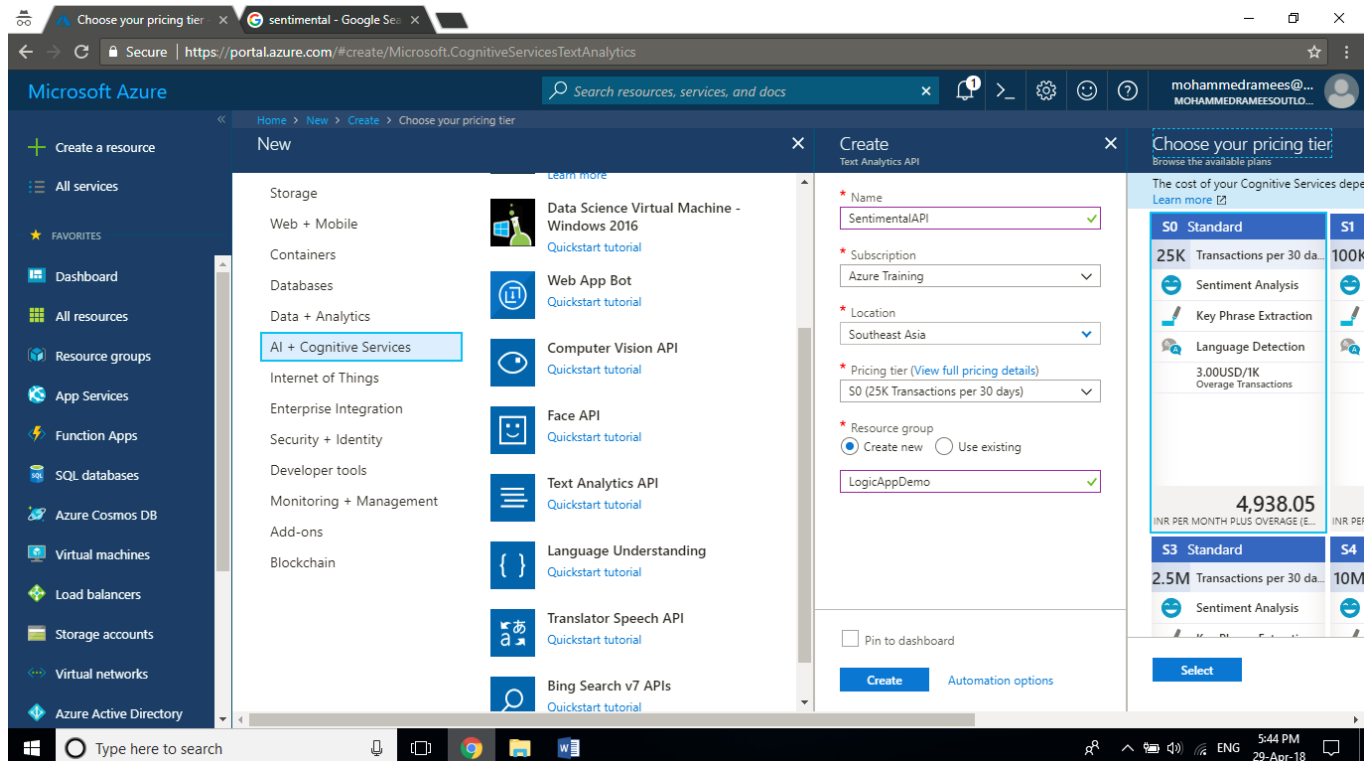
This document will show you on how you can build a logic app that checks twitter to detect negative feedback and get a mail on receiving one.

Connectors to be used:

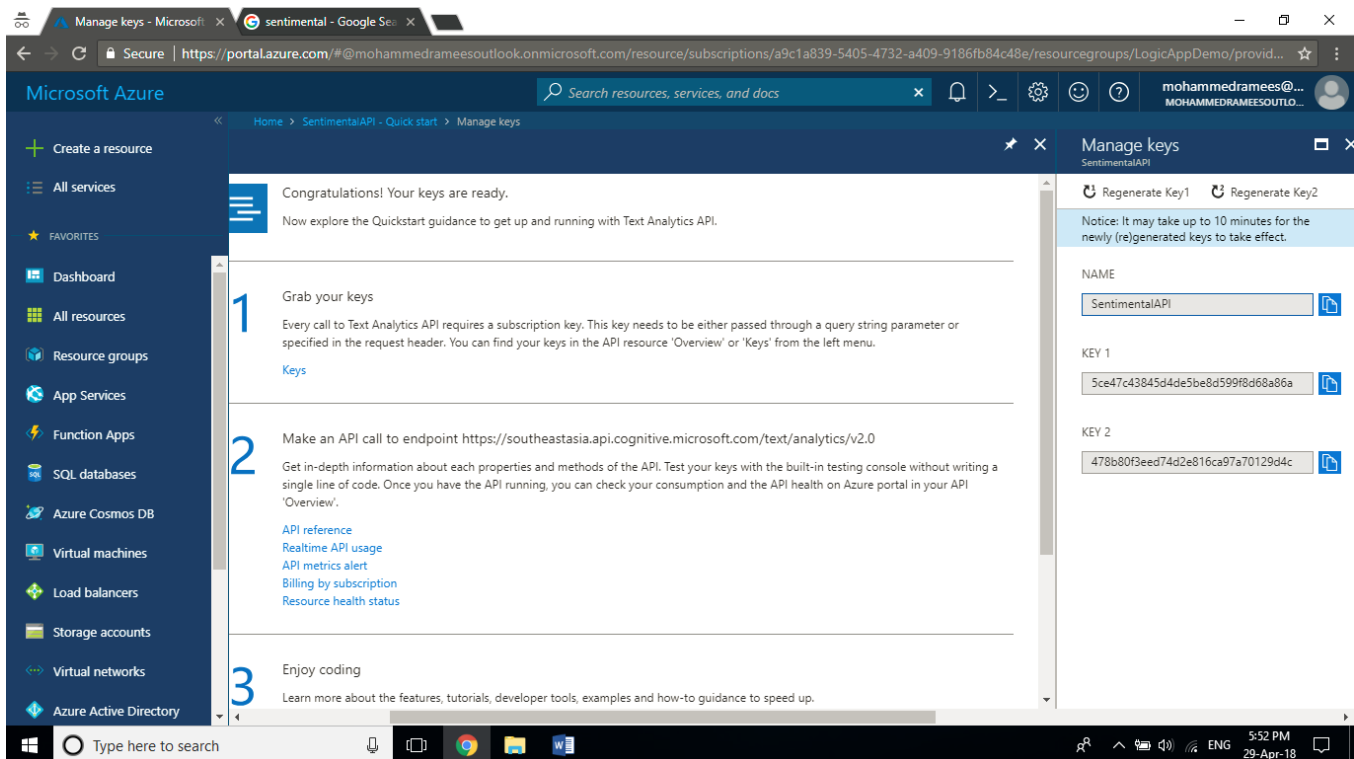
- **Twitter** connector to monitor twitter feed for a new message is posted with a specific hashtag
- **Cognitive Services**, a service inside Microsoft Azure, to do sentiment analysis on the text which returns a value between 0 and 1 as to the positive or negativity
- **Email** connector in order to send an email

Here in this tutorial the logic app is going to be triggered when a new tweet is posted with the hashtag, #LetsLearnLogicApp.

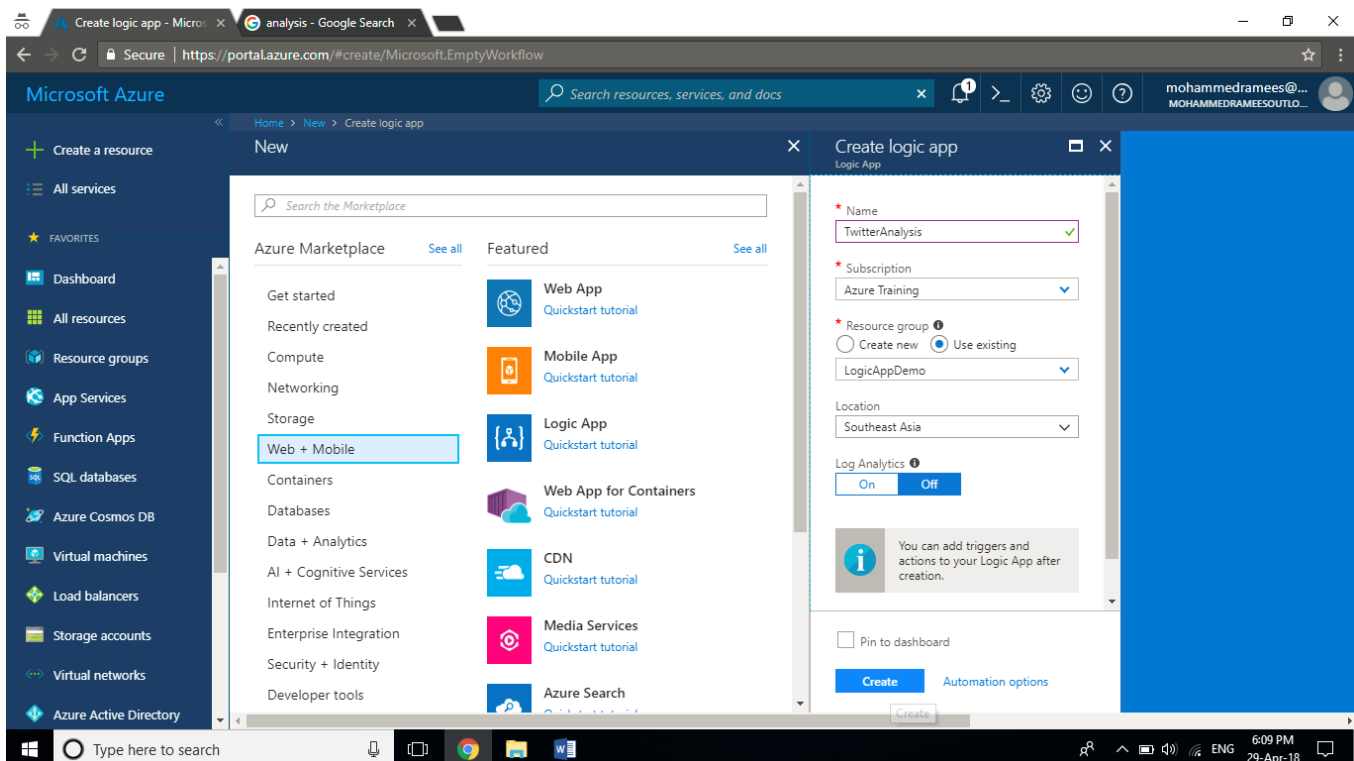
**Step 1:** Login to your Microsoft Azure portal, click on **Create new resource** and select **Text Analytics API** from **AI + Cognitive** category to enable sentimental analytics. Enter the **Name**, what **Subscription** you want it to belong to, what **Pricing Tier** and the **Resource Group**, here we are creating a new resource group. Wait for a few minutes for that to be created



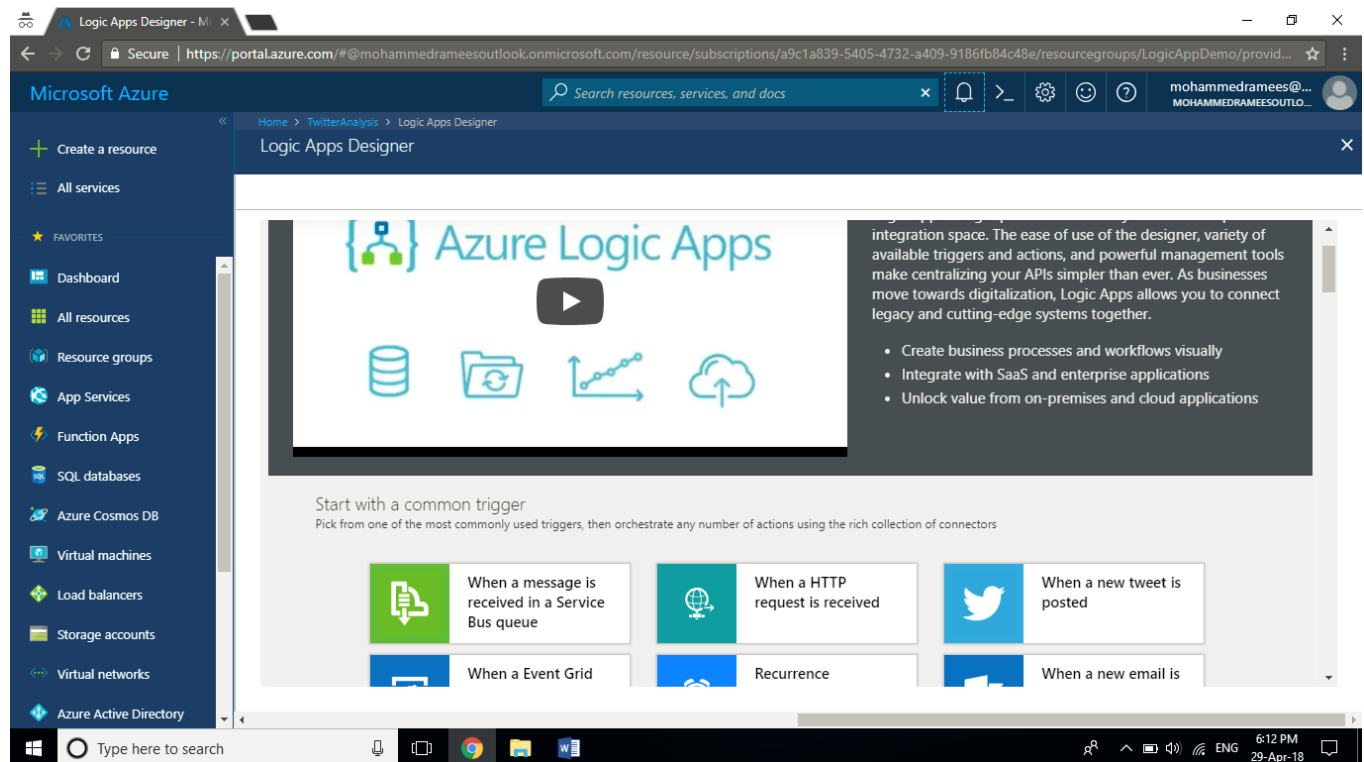
**Step 2:** Once the deployment is succeeded, open the resource and obtain the **Keys**, to interact with this service. You will be having a primary and a secondary key where you can regenerate both in case one is compromised. Take **note of any key** to be used in the Logic App



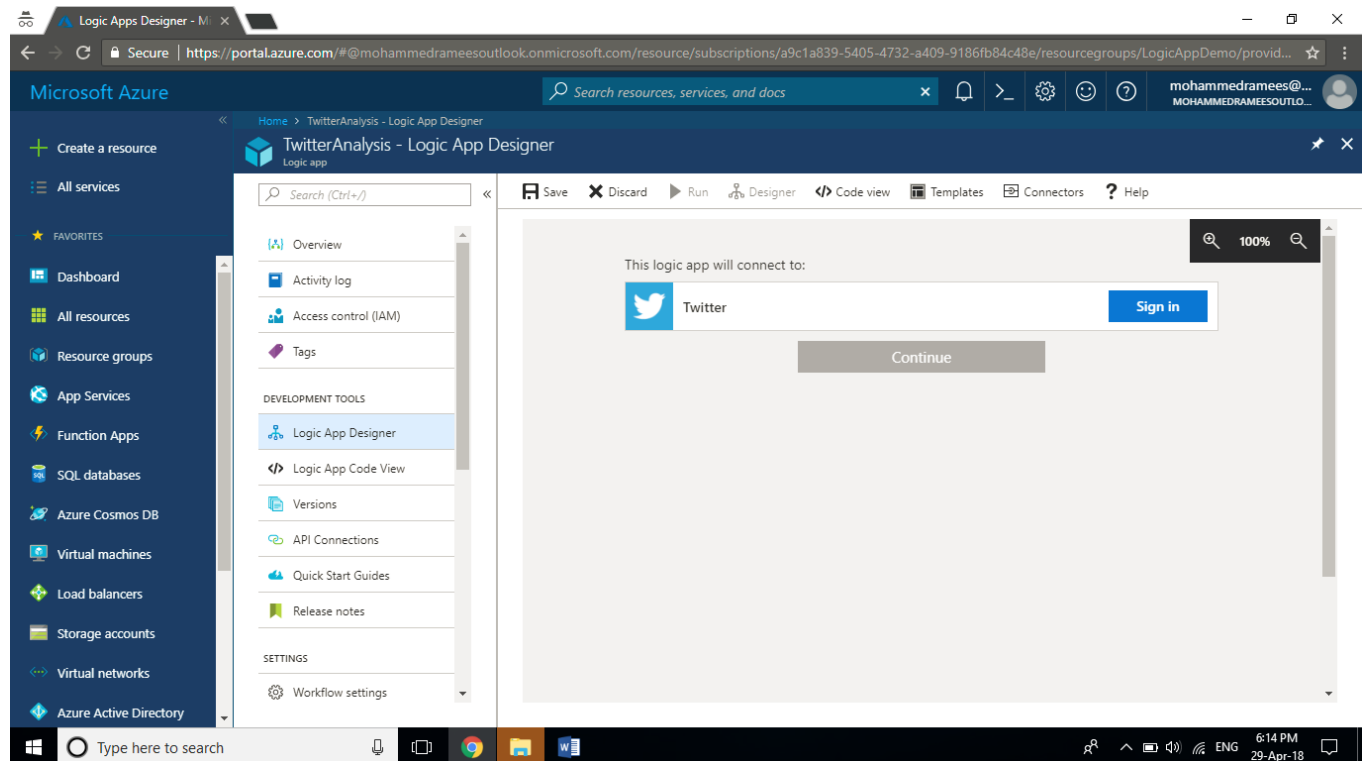
**Step 3:** Create a **Logic App**, from the **Web + Mobile** category. Give it a **Name**, set your **Subscription**, and here we are using our existing **Resource Group** in the same **Location**. Click on **Create** and wait for few minutes.



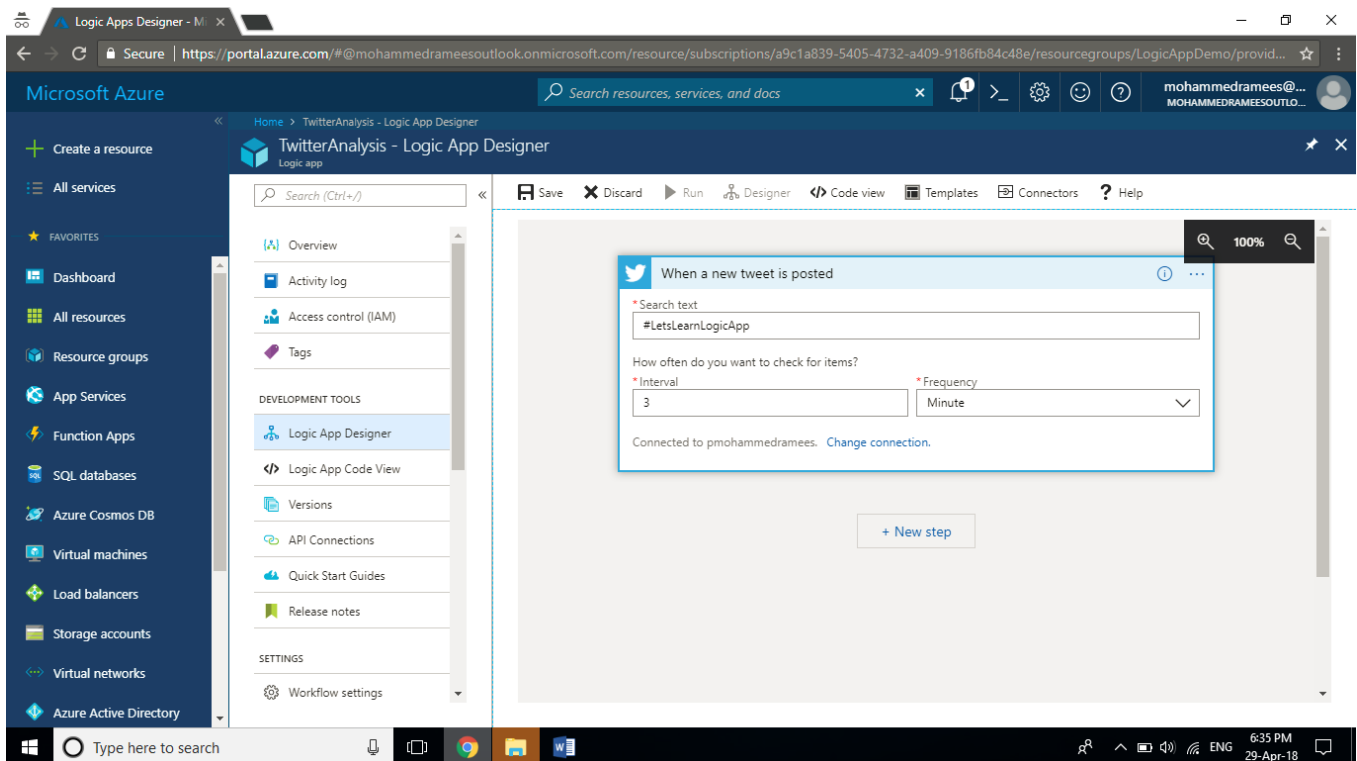
**Step 4:** Once the deployment is completed, open your Logic App, which will take you right into the **Designer**.



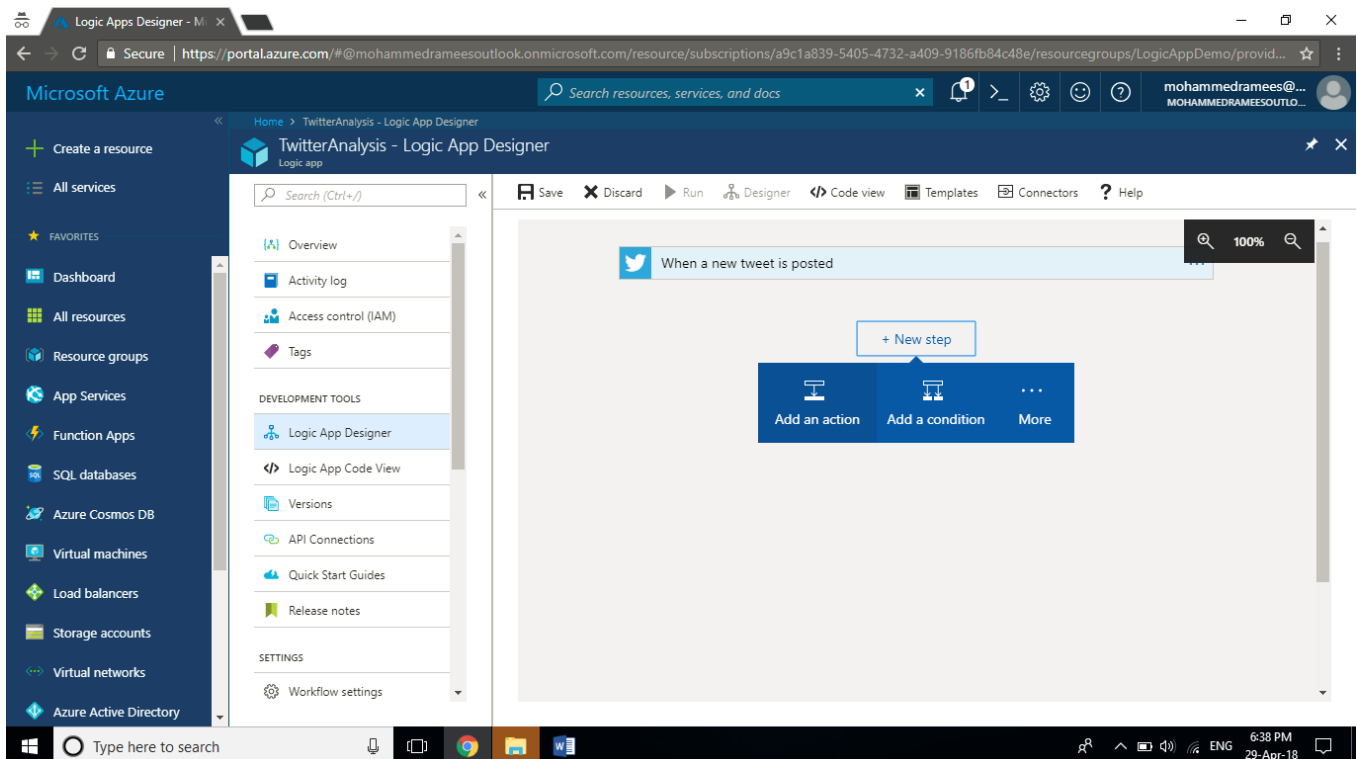
**Step 5:** Select the **When a new tweet is posted** trigger from the common trigger which will create a logic app that already uses the Twitter connector as our trigger.

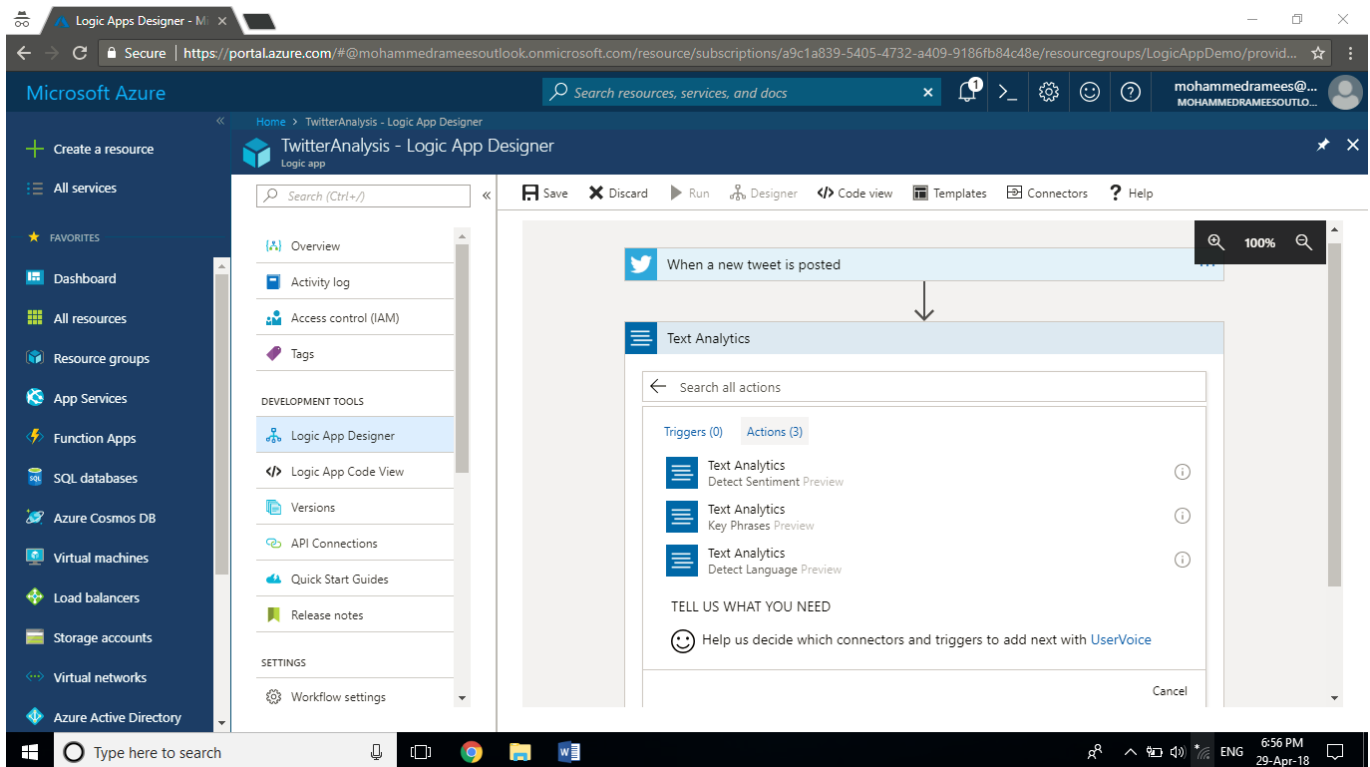
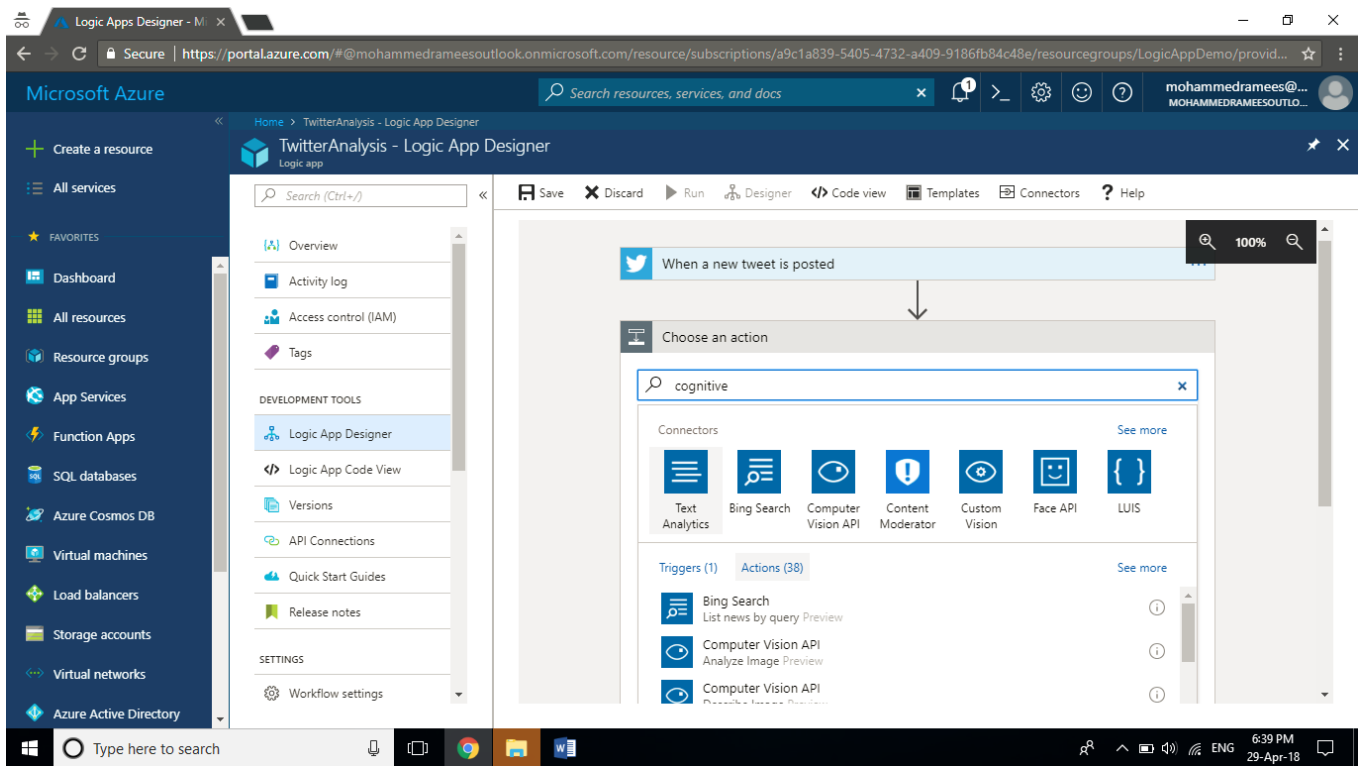


**Step 6: Sign in** to your twitter account using your credentials, **authorize** the logic app to work with twitter account and click on continue and provide the **Search Text** there. Here we are going to monitor hashtag #LetsLearnLogicApp and we can **define how often it want to check for the items**, which we are going by default.

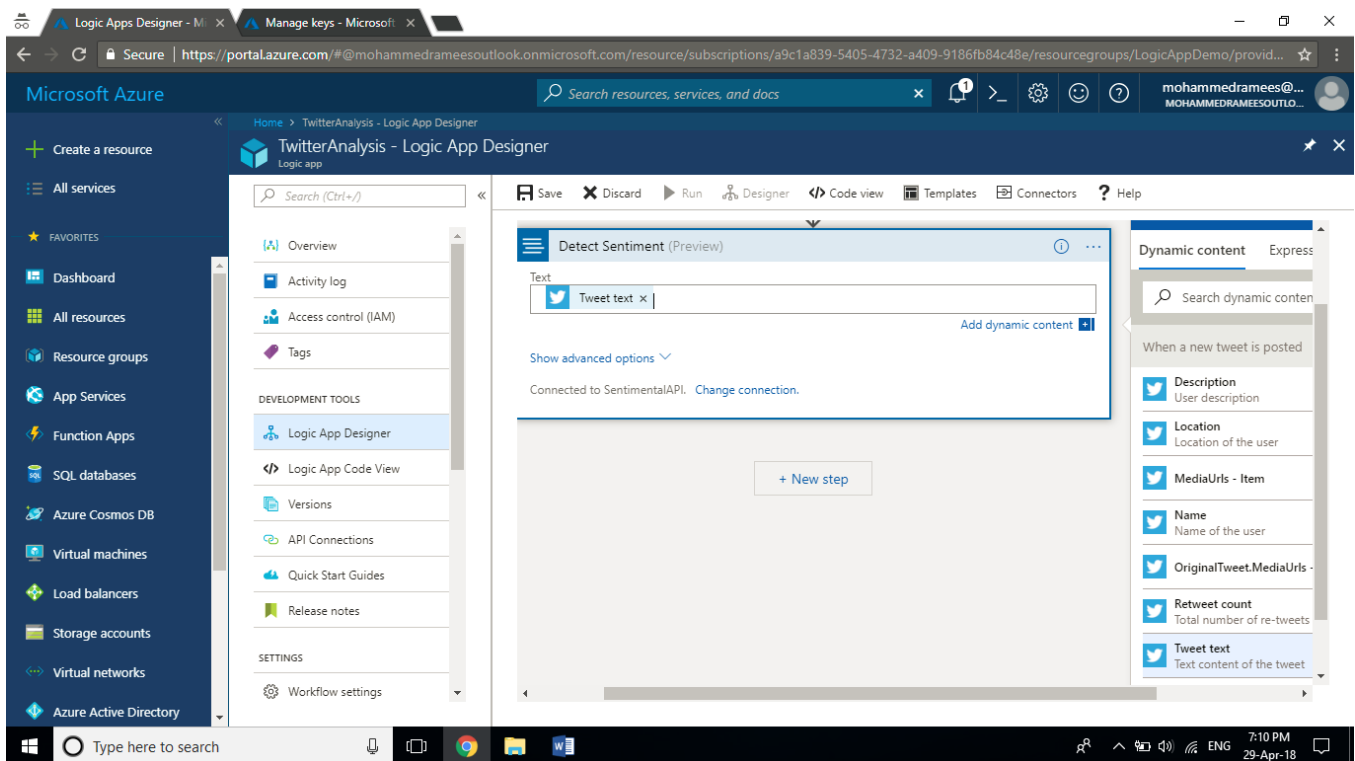
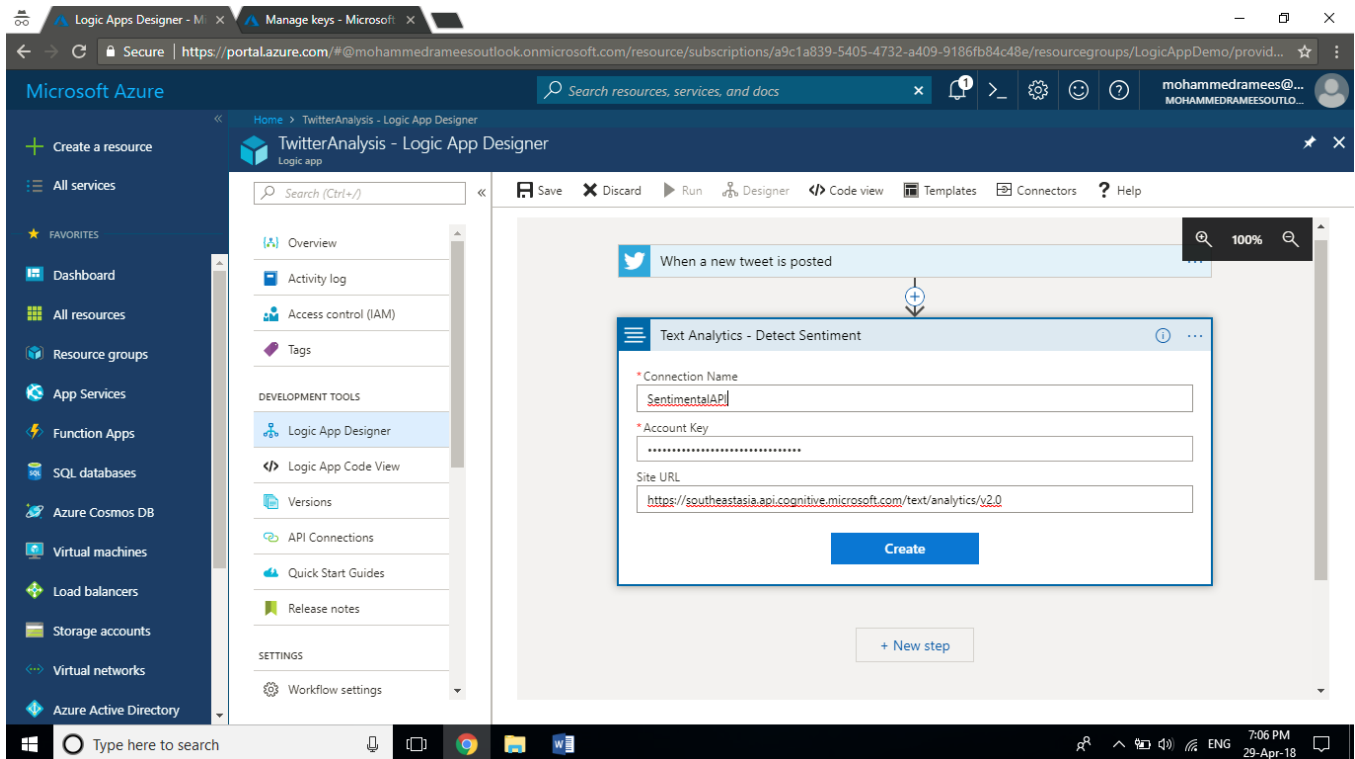


**Step 7: Now we have to take the response from Twitter and run it through our Text Analytics.** Add an Action in the next step and search for cognitive and select **Text Analytics** and select **Detect Sentiment**

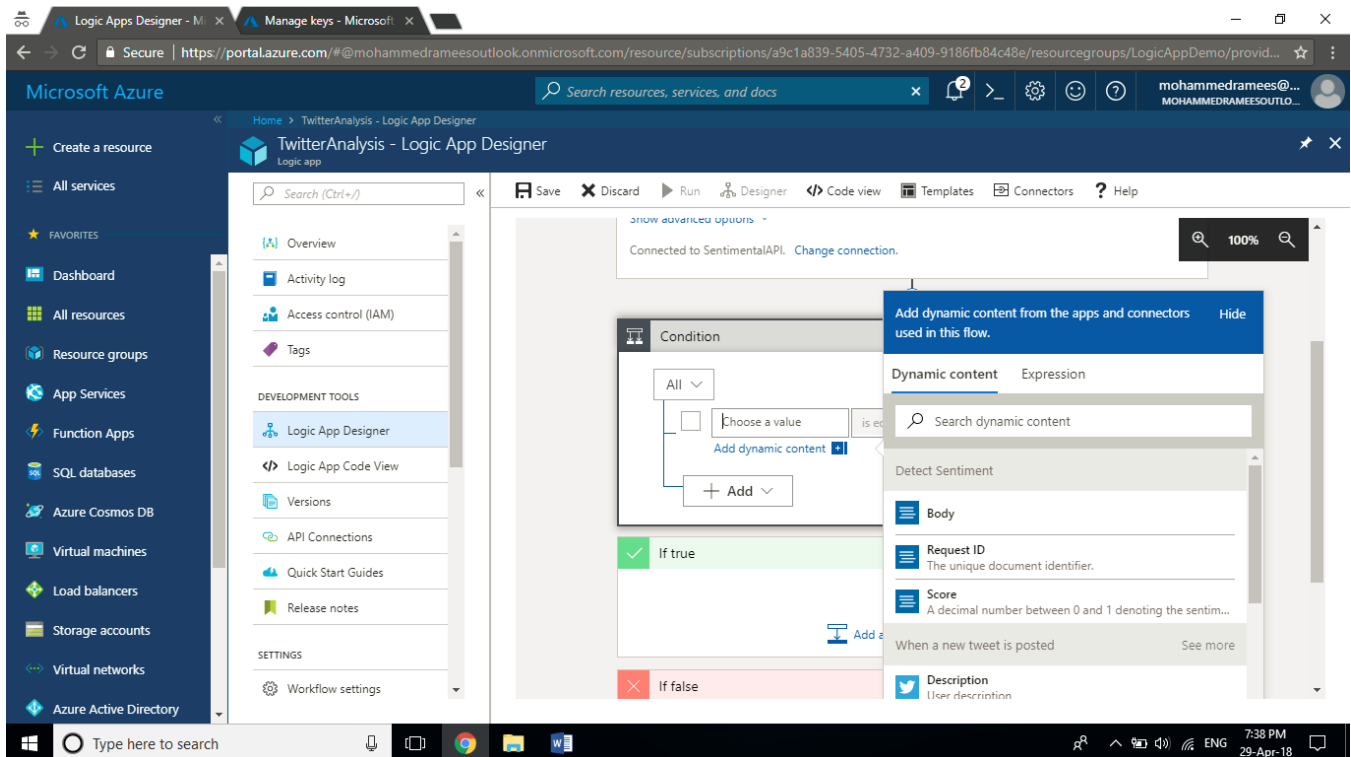
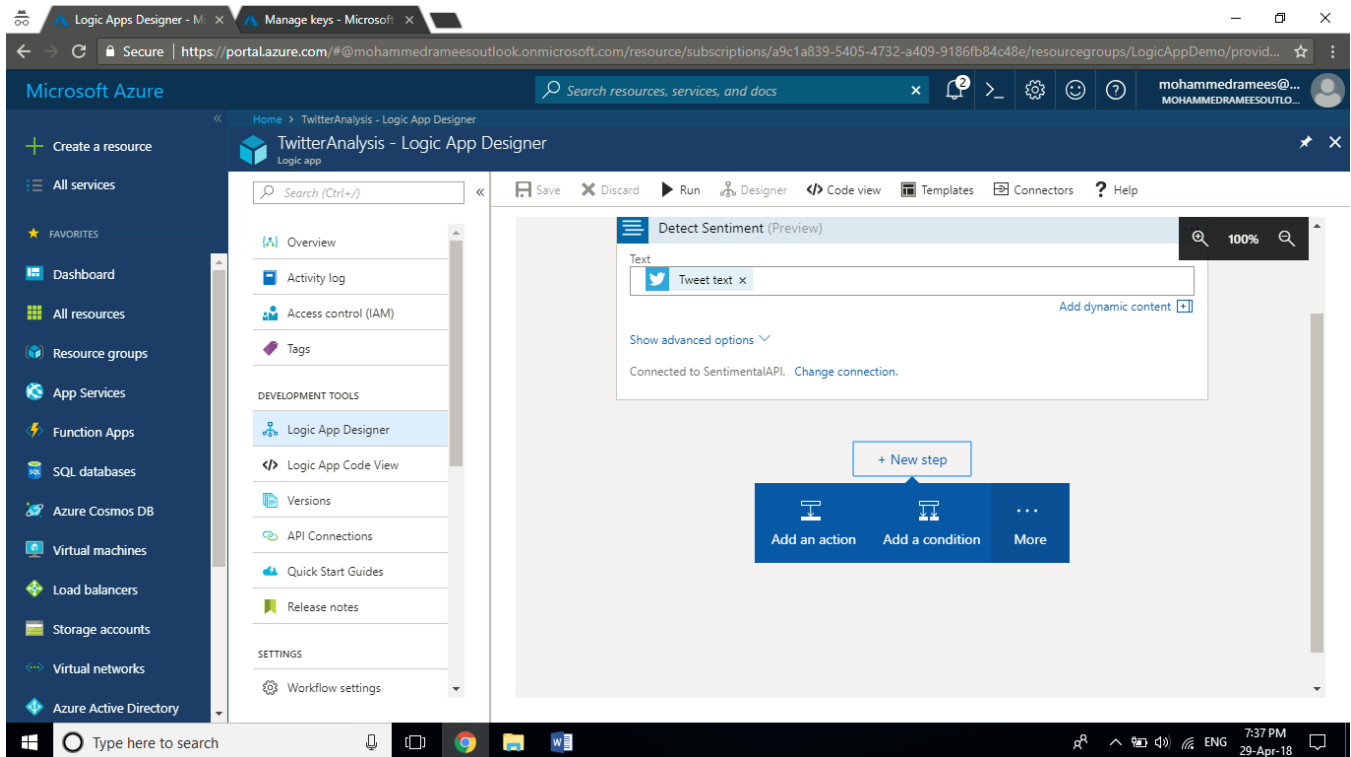


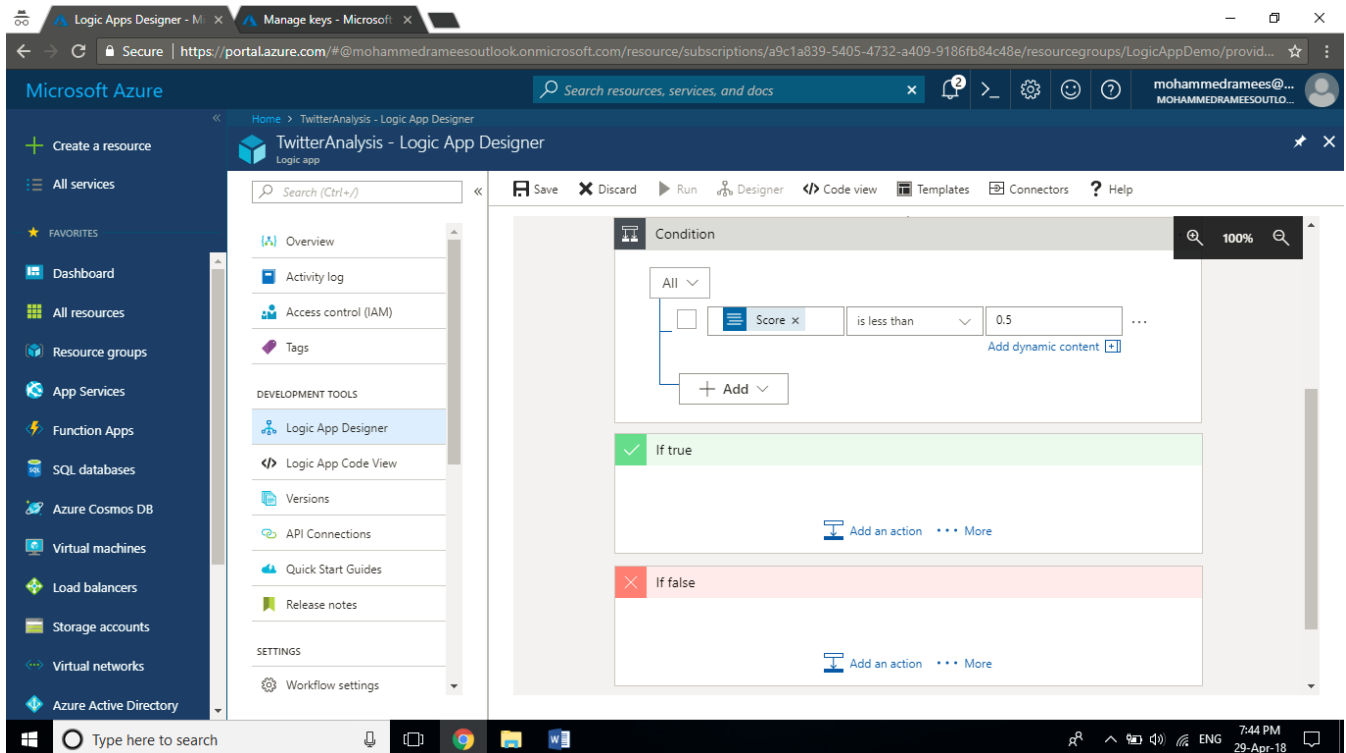


**Step 8:** Give a **Connection Name** and paste the **Account Key** from **Text Analytics** service that we created in the first step and the **Site URL** which also can be obtain from the overview tab of the cognitive service you created. Click on **Create** and finish configuring this action by telling it what **Text** I want it to analyze, which you have to select the **Tweet Text** from the **dynamic content** which will be populated based on the previous actions.

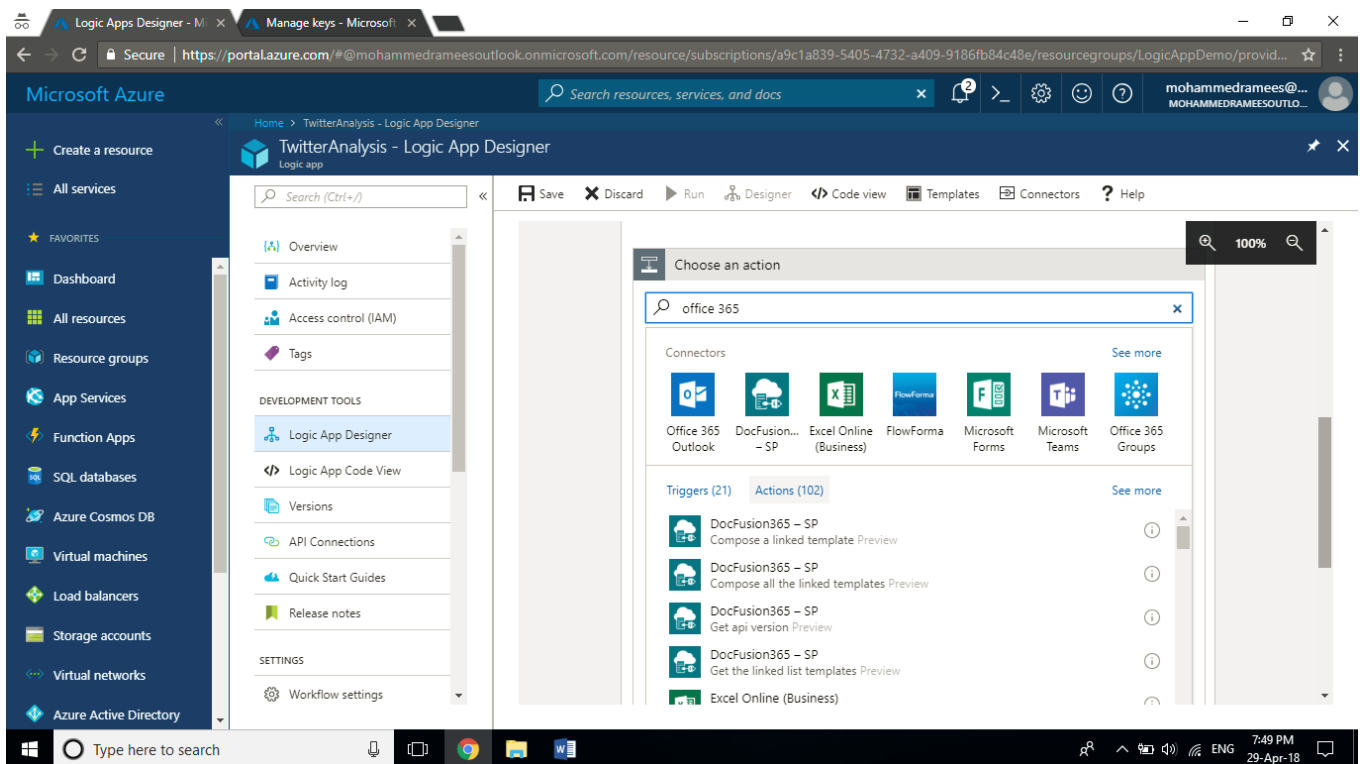


**Step 9:** Now we have to add a condition, only to mail in case of any negative sentiment as until now it will just return the score of the sentiment which is a value between 0 and 1, where closer to 0 tend to have a more negative sentiment. Click on **Add a Condition** as the next step and choose the value **Score** and the operator to be **less than** and provide the **value 0.5** to be checked with the score value.

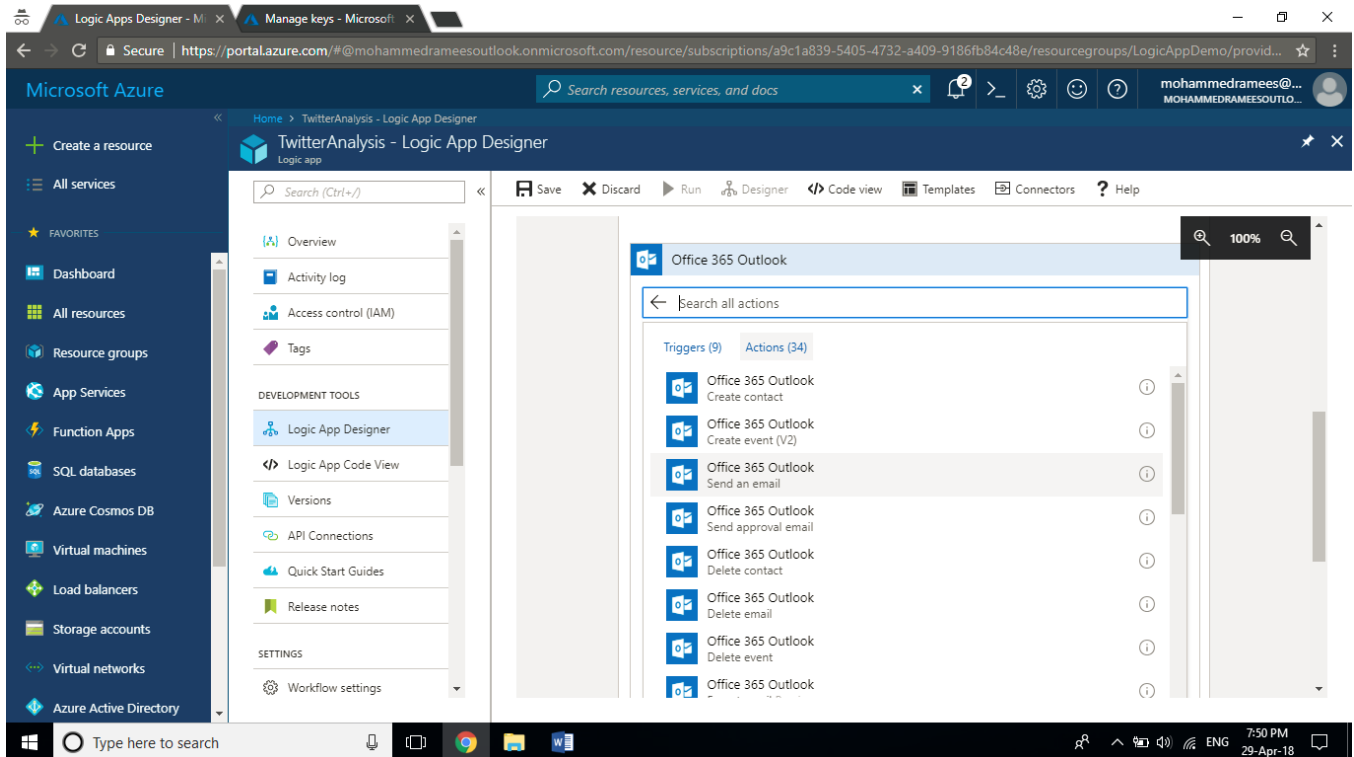




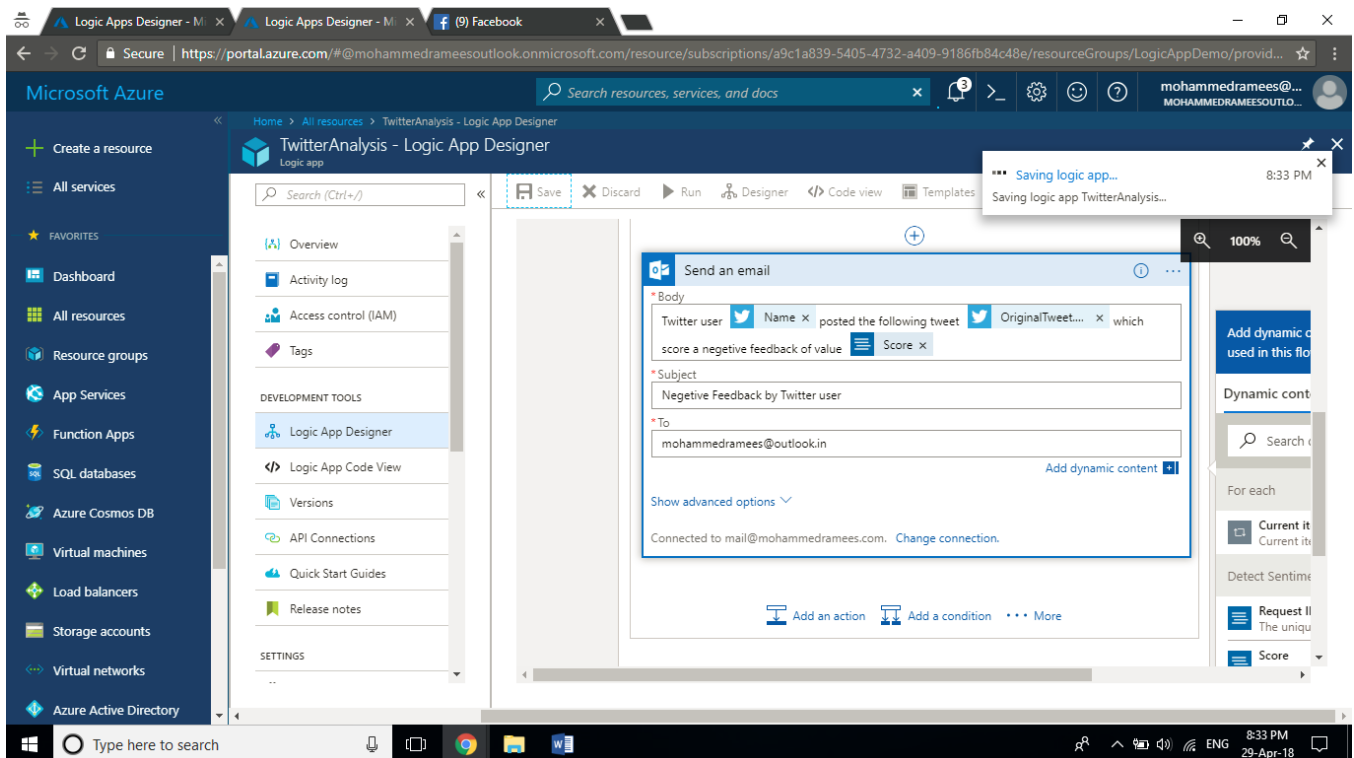
**Step 10:** On the condition **true**, **Add an Action** and search for office 365 and select the **Office 365 Outlook** connector and select **Send an email** action







**Step 11: Sign in** and create the connection using your credentials. Here I am using one of my other email account for this demo as **To** address, specify the **Subject** and in the **Body** I'm going to link the username of the twitter account and the score of sentiment. **Save** the Logic App



**Step 12:** The complete workflow should look like this. Post a tweet and check yourself. Please check for mails in junk folder also if not found in Inbox.

The screenshot shows the Microsoft Azure portal with the Logic App Designer open. The workflow is titled "TwitterAnalysis - Logic App Designer". The left sidebar contains navigation options like "Create a resource", "All services", and "FAVORITES". The main workspace displays the workflow steps: "When a new tweet is posted" (trigger), "Detect Sentiment (Preview)" (action), and a "Condition" step. The condition is set to "All" and "Score X" is "is less than" "0.5". If the condition is true, the workflow proceeds to "Send an email" (action). If false, it branches off. The bottom status bar shows the Windows taskbar with the search bar and system clock (9:01 PM, 29-Apr-18).

The screenshot shows the Microsoft Azure portal with the Logic App Designer open, displaying the "Logic app run" history. The workflow is titled "TwitterAnalysis - Logic App Designer". The left sidebar contains navigation options like "Create a resource", "All services", and "FAVORITES". The main workspace displays the workflow steps: "When a new tweet is posted" (trigger), "Detect Sentiment" (action), and a "Condition" step. The condition is set to "All" and "Score X" is "is less than" "0.5". If the condition is true, the workflow proceeds to "Send an email" (action). If false, it branches off. The bottom status bar shows the Windows taskbar with the search bar and system clock (9:27 PM, 29-Apr-18).