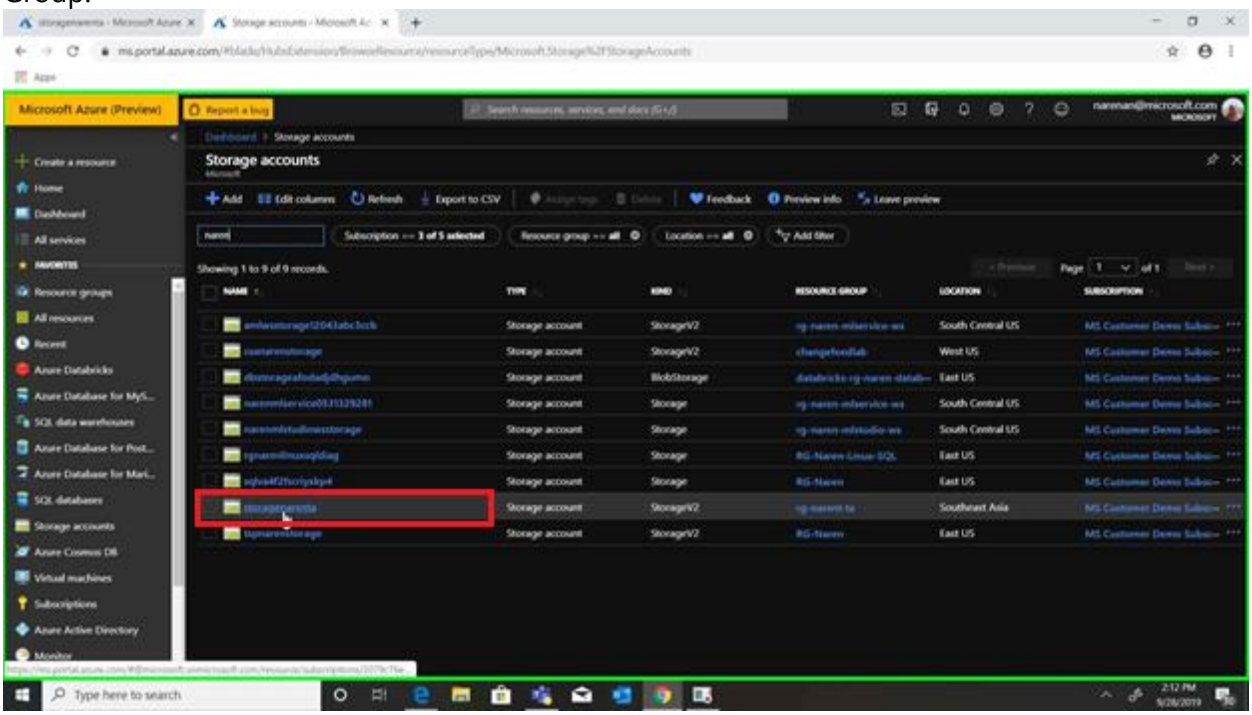
Contents

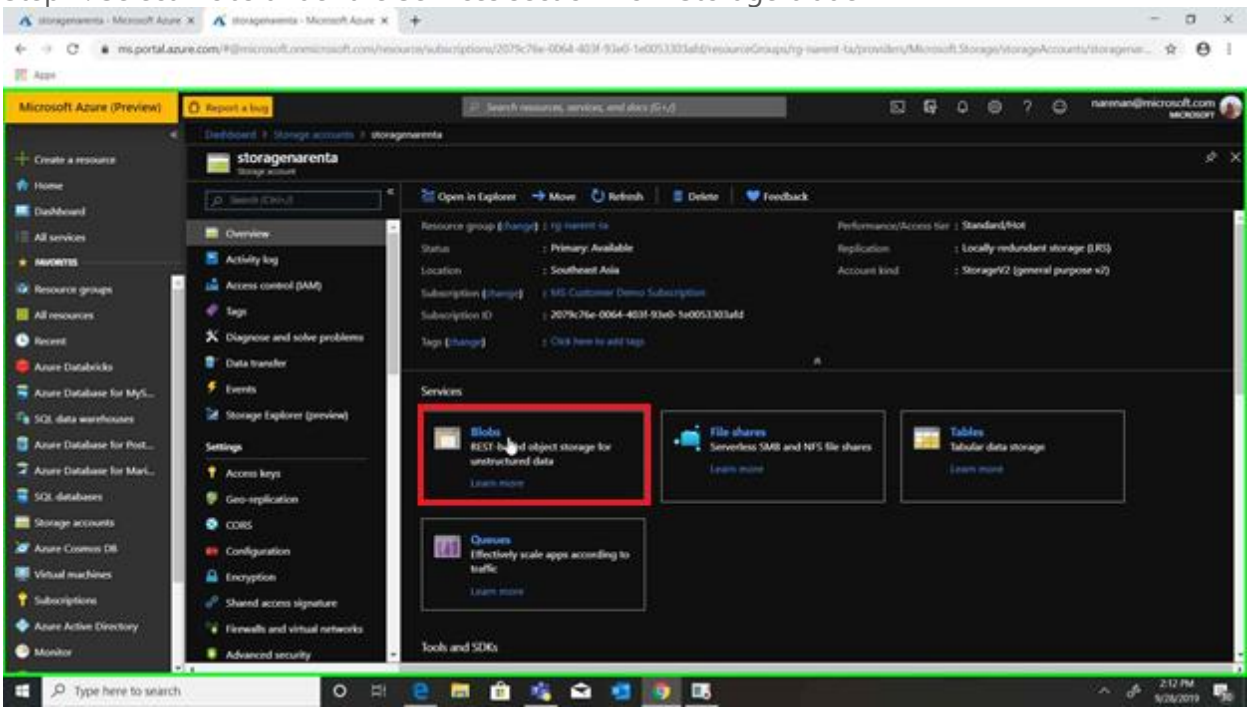
Create Blob Container in Azure Blob Storage for Tweet Analytics

To work on Tweet analytics demo we will use Azure Blob Storage and create the container required for this demo.

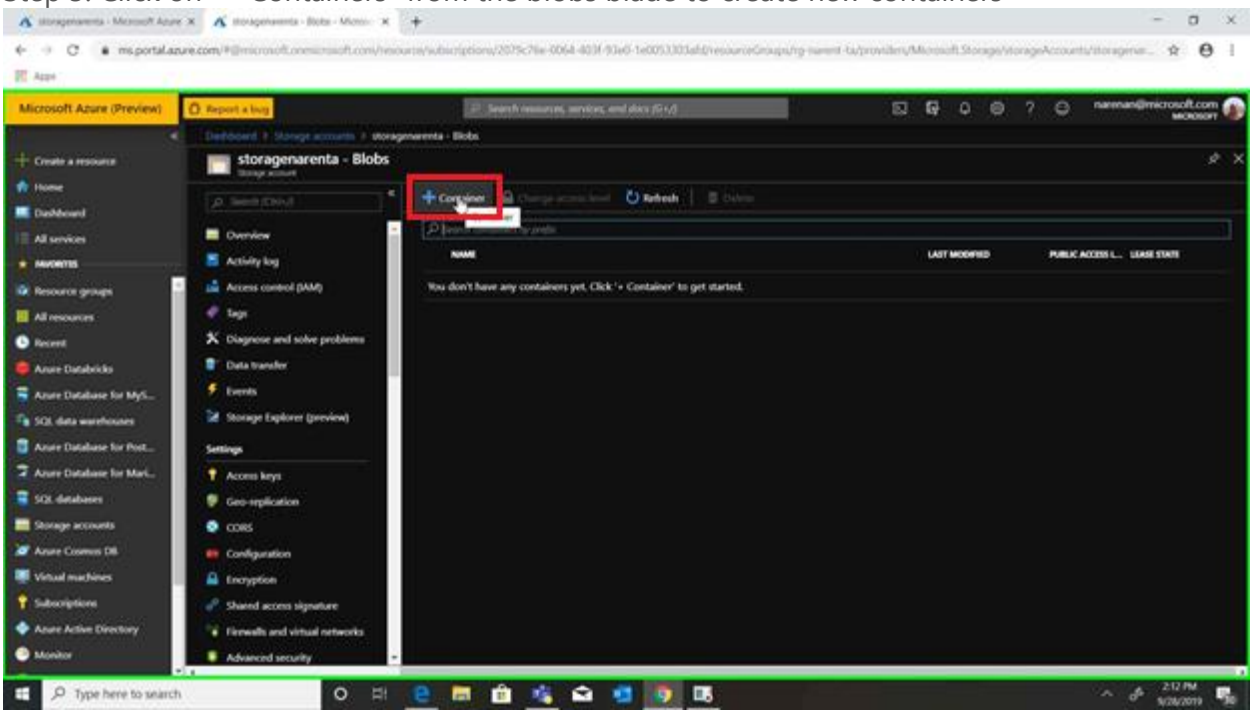
Step 1: Open Azure Portal and select Storage Account from the Resource Group which you have created for the Tweet Analytics Demo. In my case I have created rg-narent-ta as a Resource Group.



Step 2: Select Blobs under the Services section from Storage blade

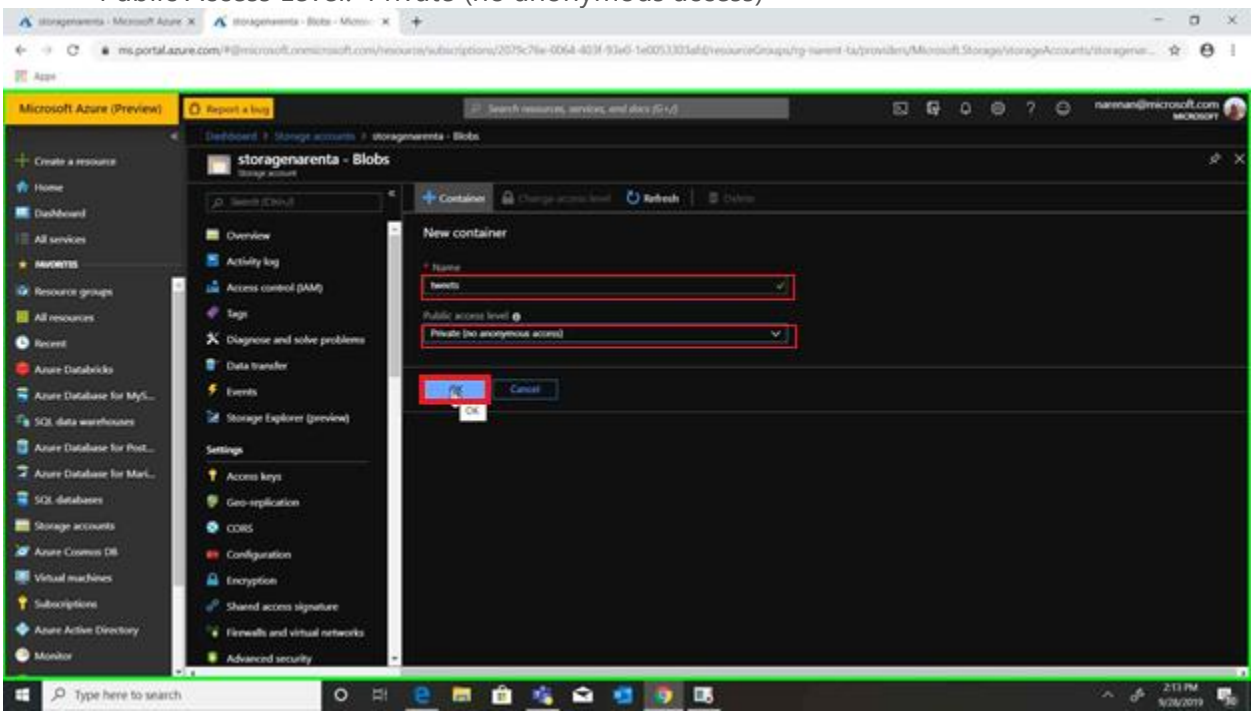


Step 3: Click on "+ Containers" from the blobs blade to create new containers

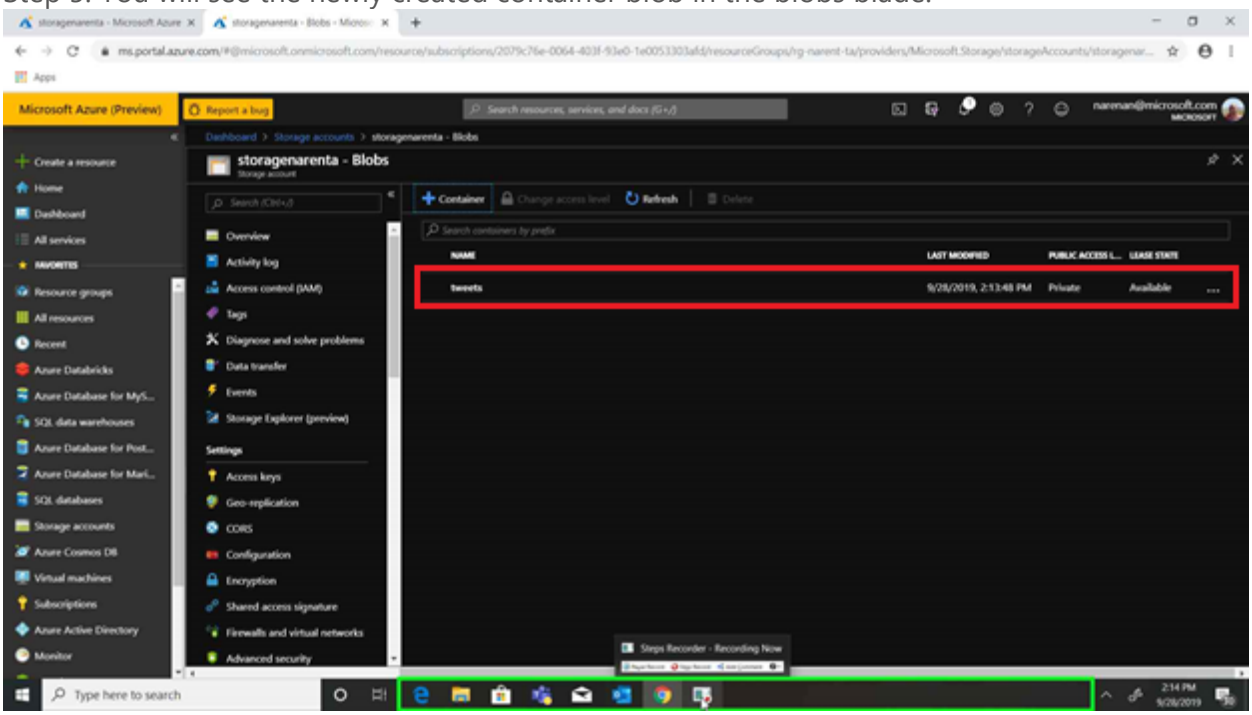


Step 4: In new Container Window, enter the following details to create new container and click OK button

- Name: <Enter the Name>
- Public Access Level: Private (no anonymous access)



Step 5: You will see the newly created container blob in the blobs blade.

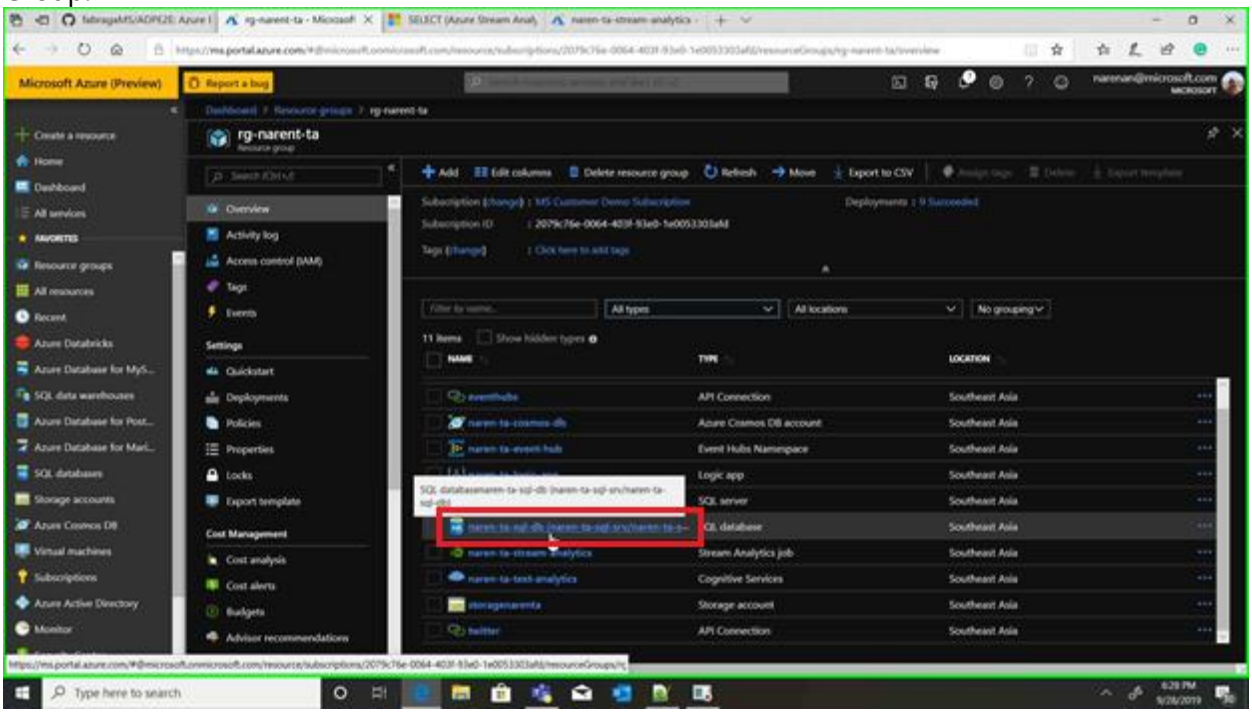


Congratulations! Blob Container got created successfully.

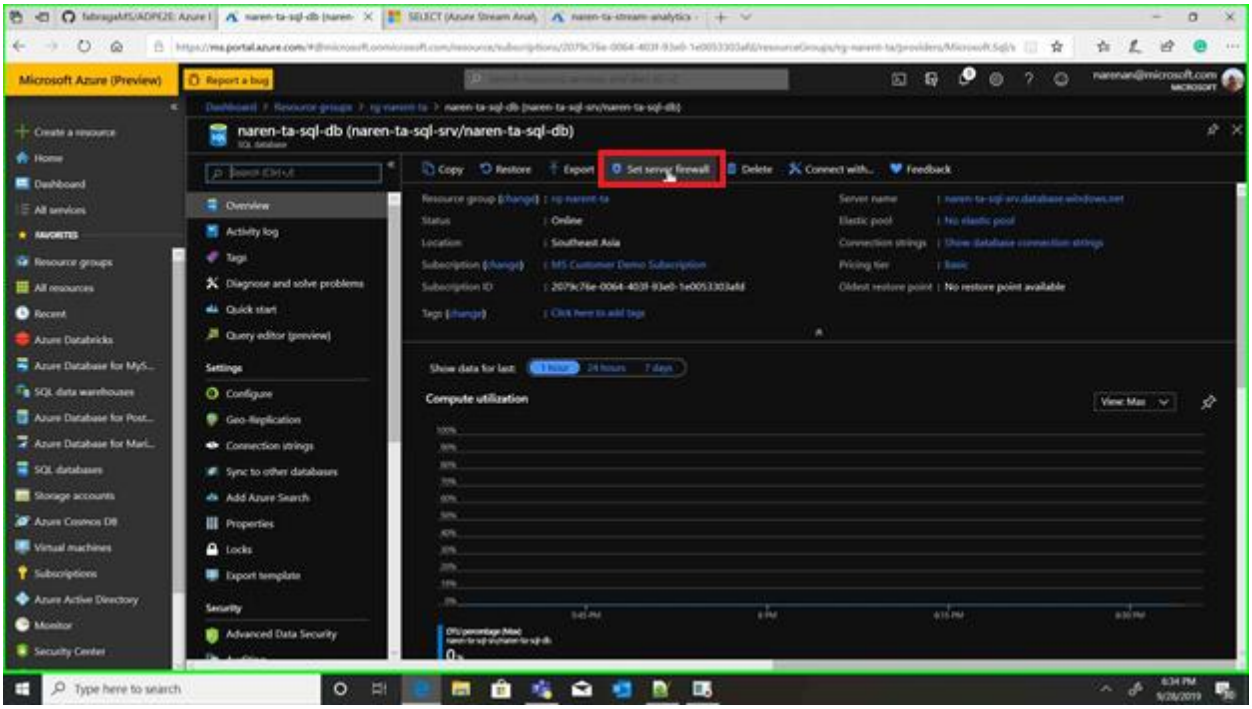
Create Table in Azure SQL Database for Tweet Analytics

To work on Tweet analytics demo we will use SQL Database in Azure and create the required table.

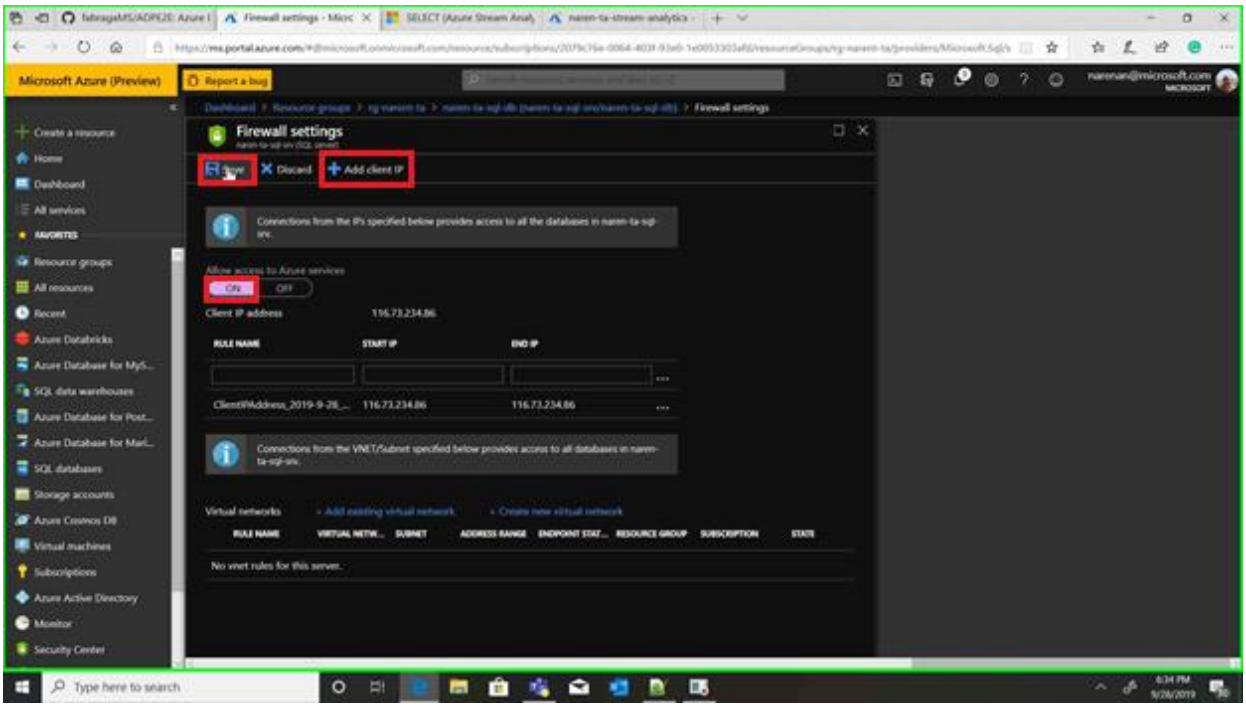
Step 1: Open Azure Portal and select SQL Database from the Resource Group which you have created for the Tweet Analytics Demo. In my case I have created rg-narent-ta as a Resource Group.



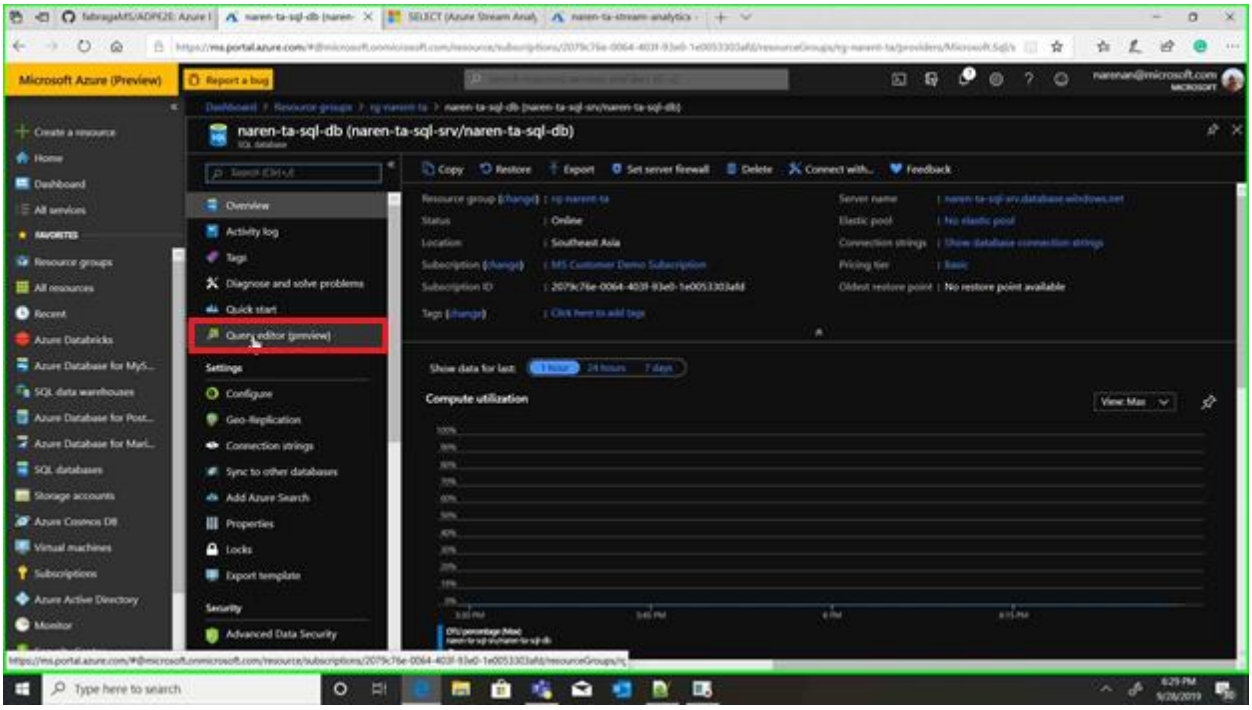
Step 2: On the SQL Database blade click on SQL Server Firewall to add current client IP and to allow azure services and resources to access this server.



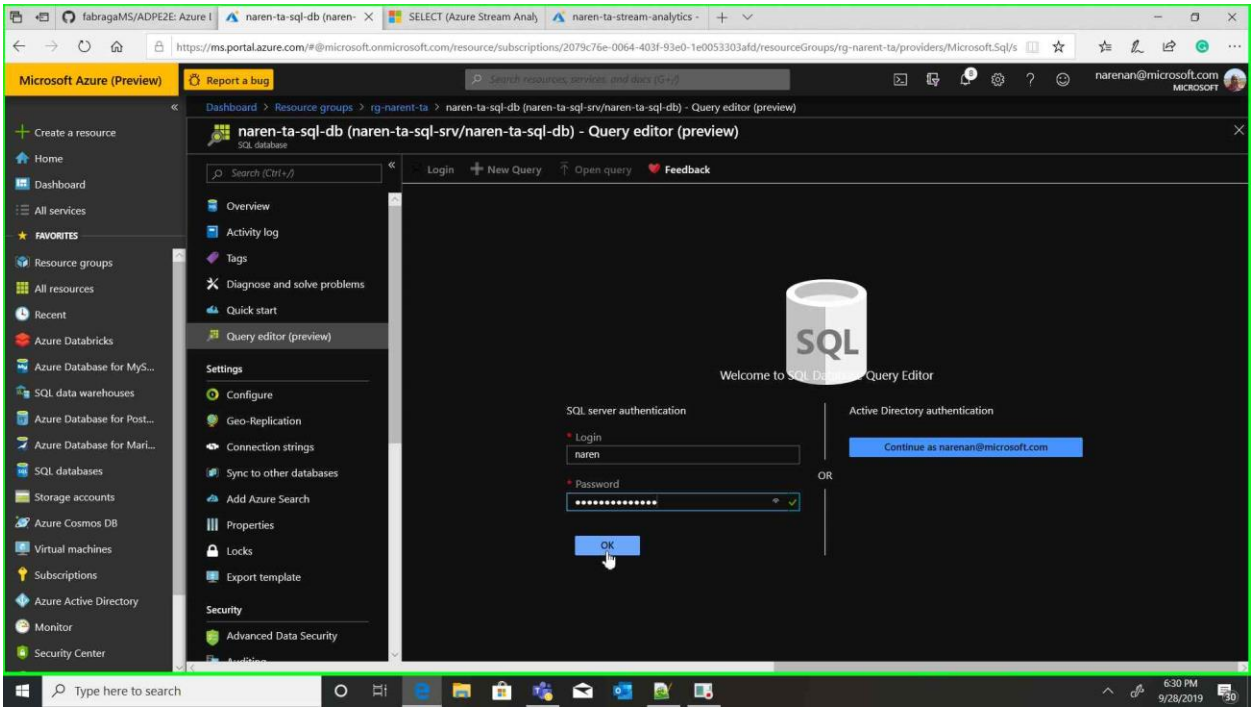
Step 3: Click on Add client IP to add current client IP address and Enable the option which allow access to Azure Services then click on Save button.



Step 4: Open Query Editor from the SQL Database blade to create a table which is required to save the tweet related information.

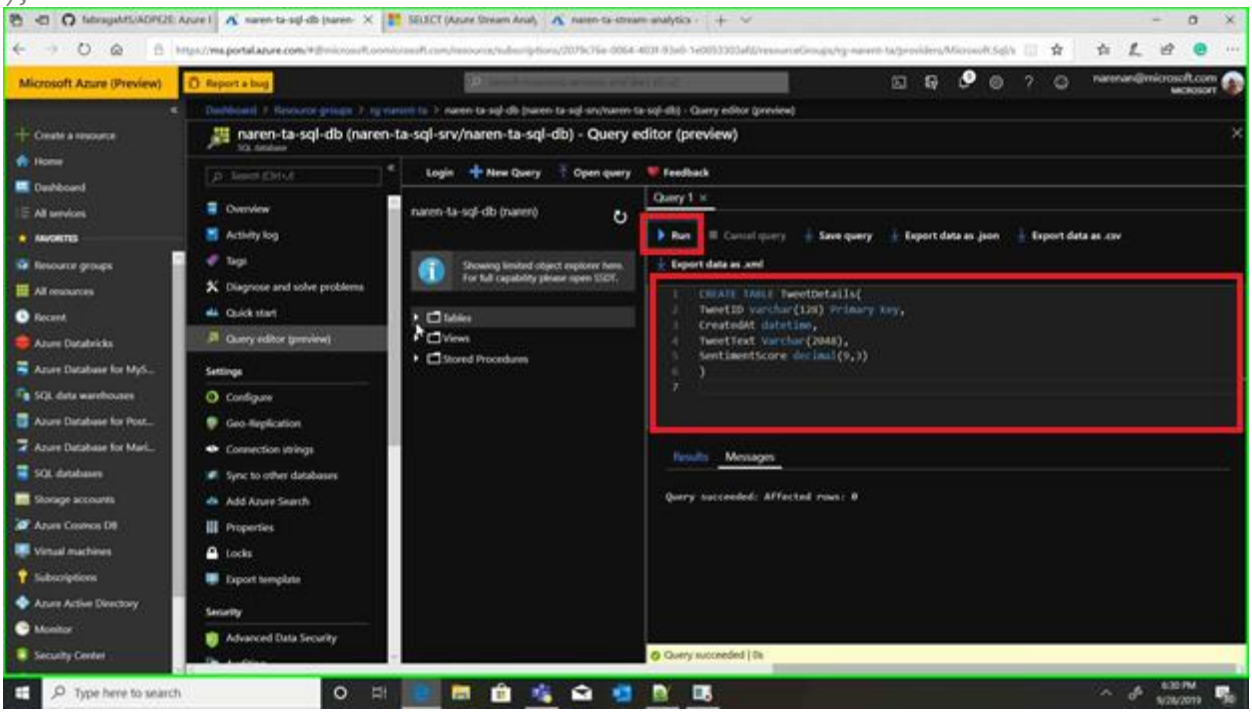


Step 5: Enter SQL login and password to connect and execute query from the Query editor. Here I am using SQL Authentication to connect SQL Database. You can also use Azure Directory Authentication instead.

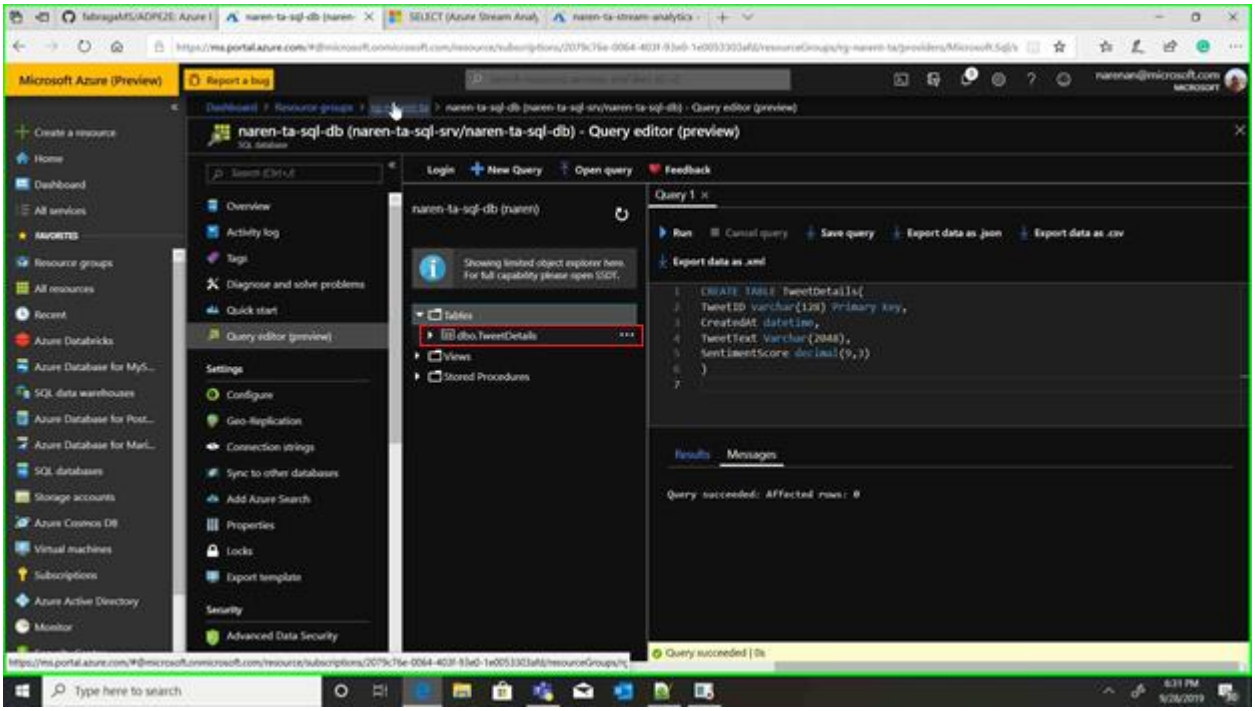


Step 6: After successful login, paste the below given query to create TweetDetails Table and click the run button to execute the query.

```
CREATE TABLE TweetDetails
(
	TweetID varchar(128) Primary Key,
	CreatedAt datetime,
	TweetText Varchar(2048),
	SentimentScore decimal(9,3)
);
```



Step 7: After successful execution of the query you will notice that TweetDetails table get added under the tables folder.

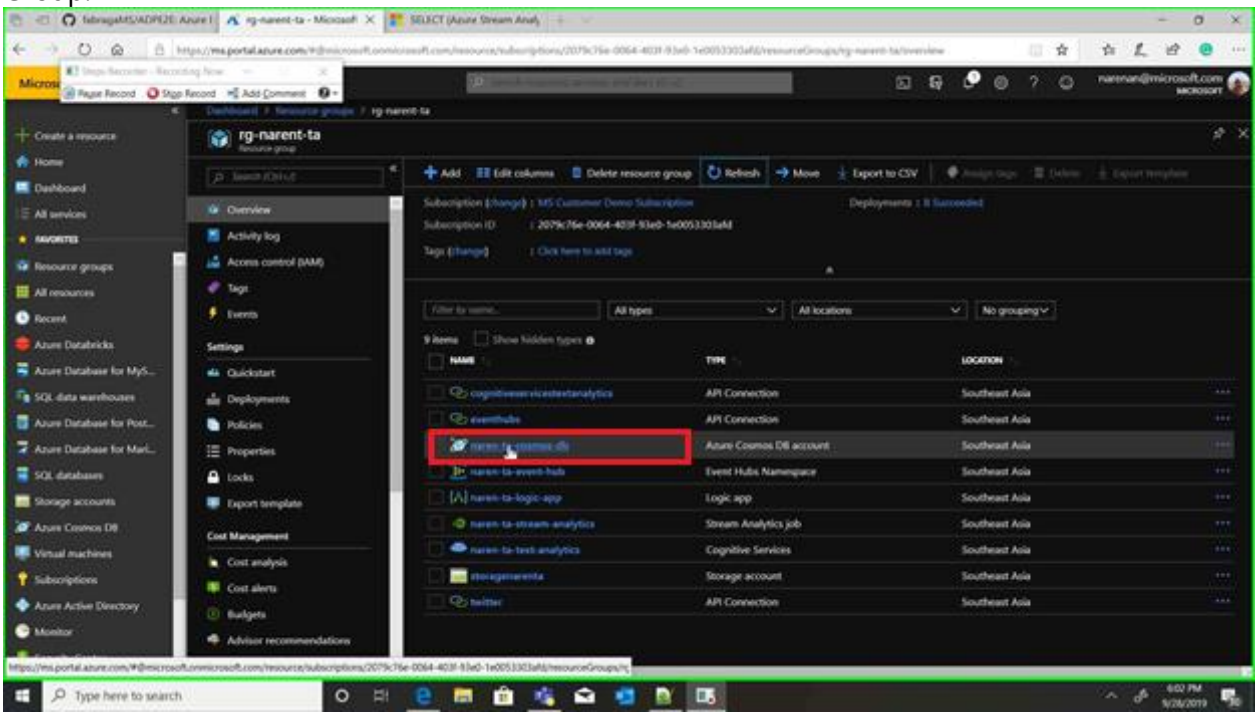


Congratulation! Required table for demo get created.

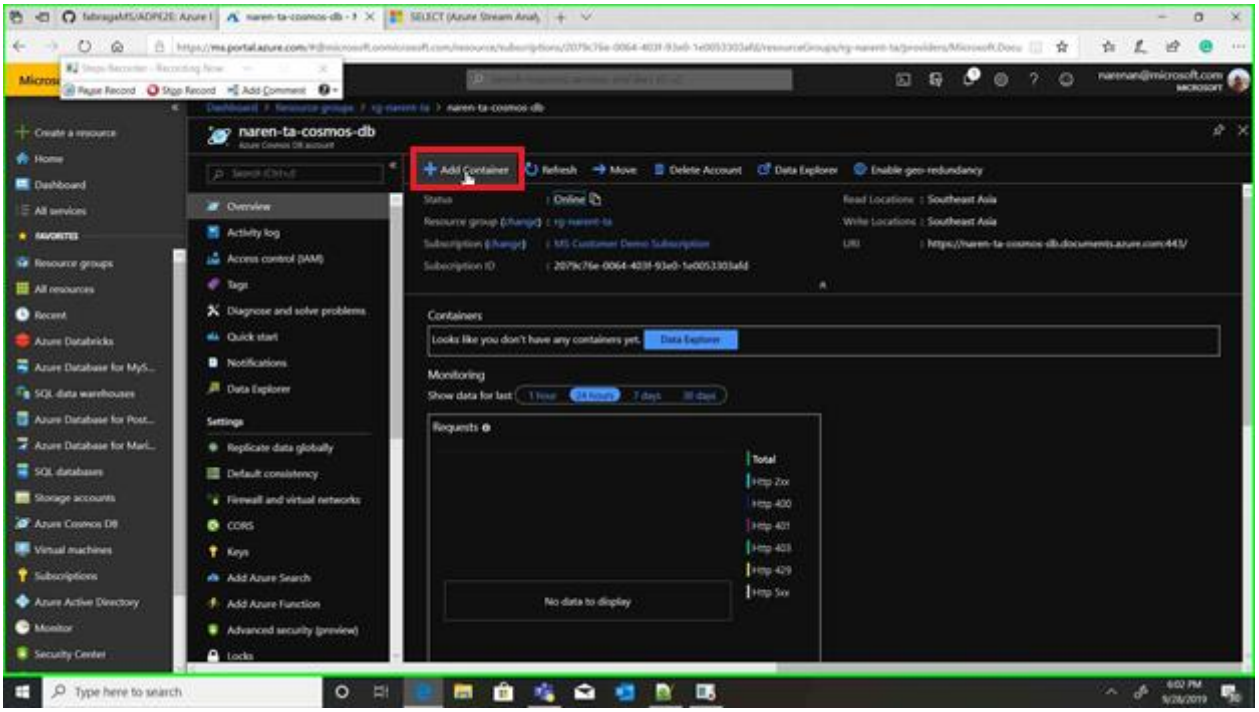
Create Database and Container in Azure Cosmos DB for Tweet Analytics

To work on Tweet analytics demo we will use Azure Cosmos DB and create the database and container required for this demo.

Step 1: Open Azure Portal and select Cosmos DB from the Resource Group which you have created for the Tweet Analytics Demo. In my case I have created rg-narent-ta as a Resource Group.

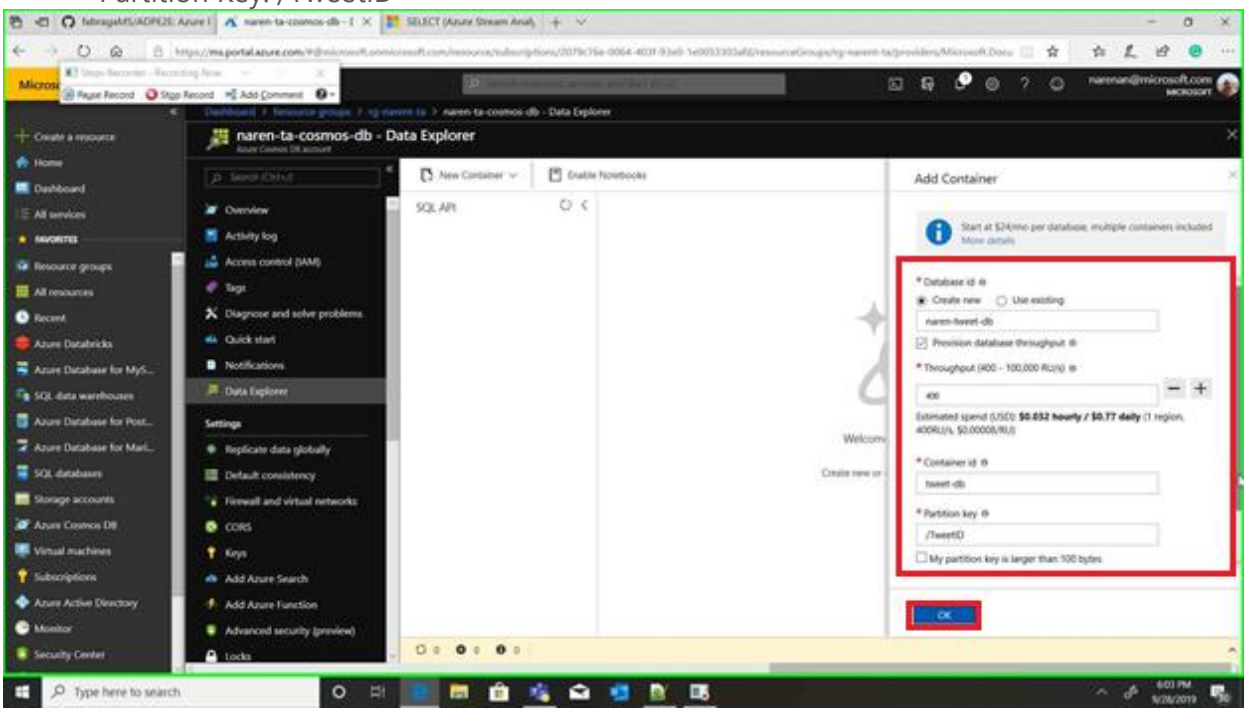


Step 2: On Cosmos DB blade click on Add Container button to create container to store tweet details.

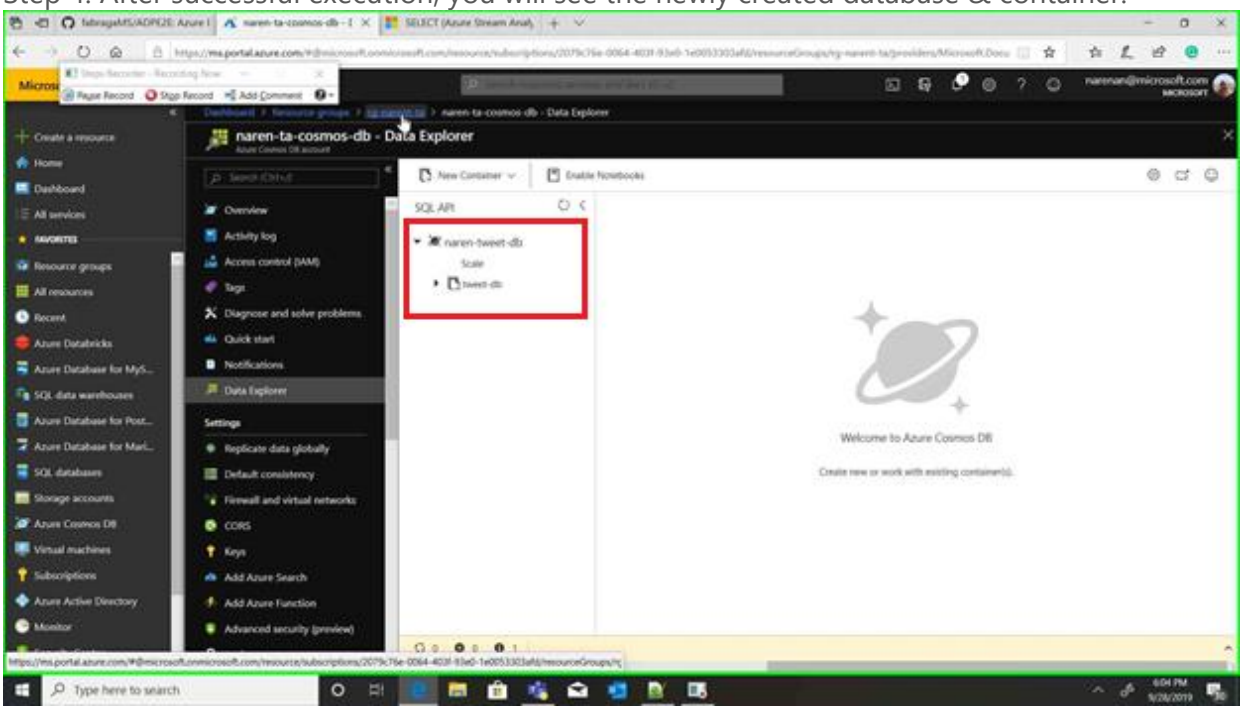


Step 3: On Add container blade enter the following information and click Ok button to create the container.

- "Create New" Check box is True
- Database ID: <Enter Database ID>
- Throughput: 400
- Container ID: <Enter Container ID>
- Partition Key: /TweetID



Step 4: After successful execution, you will see the newly created database & container.

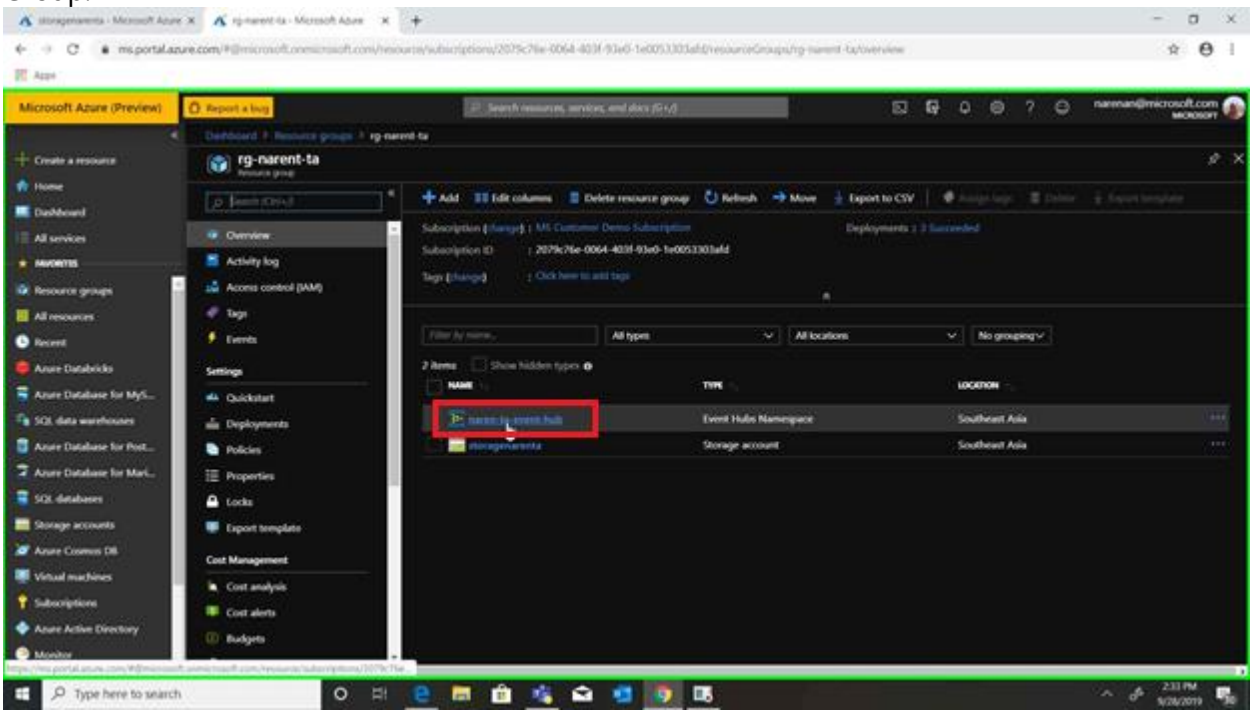


Congratulations! Cosmos DB Database & Container got created successfully.

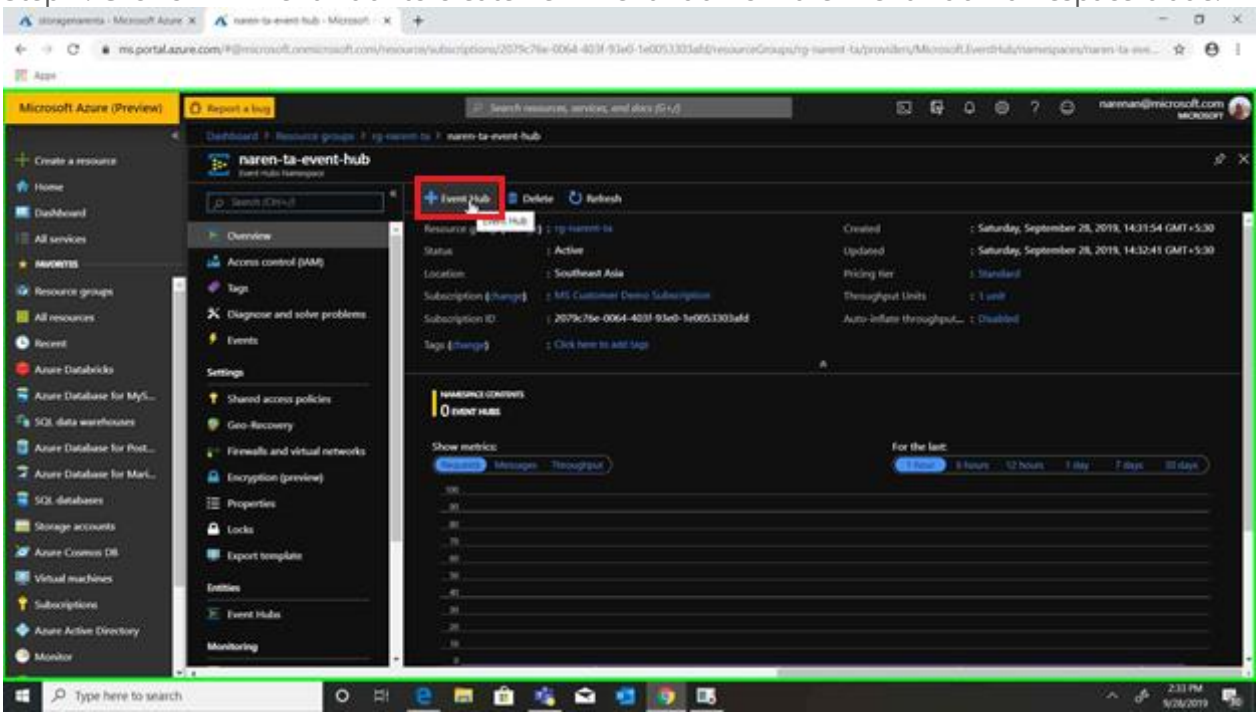
Create Event Hub in Azure Event Hub Namespace for Tweet Analytics

To work on Tweet analytics demo we will use Azure Event Hub Namespace and create Event Hub required for this demo.

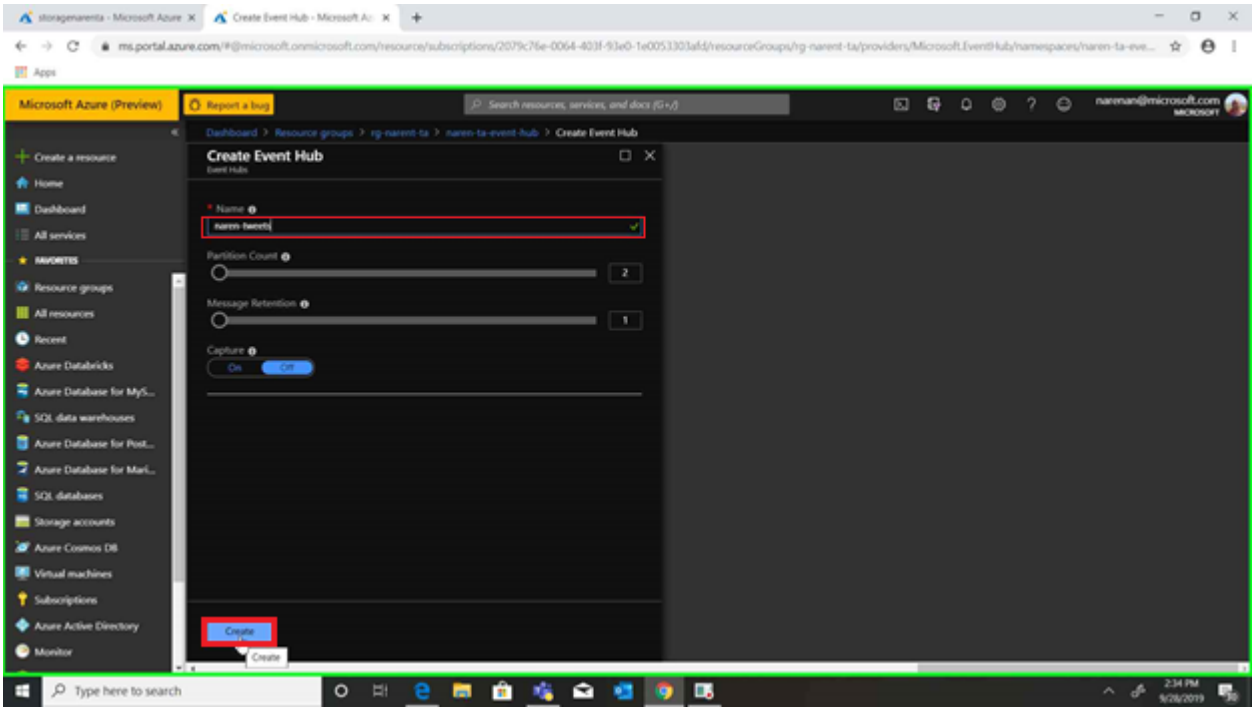
Step 1: Open Azure Portal and select Event Hub Namespace from the Resource Group which you have created for the Tweet Analytics Demo. In my case I have created rg-narent-ta as a Resource Group.



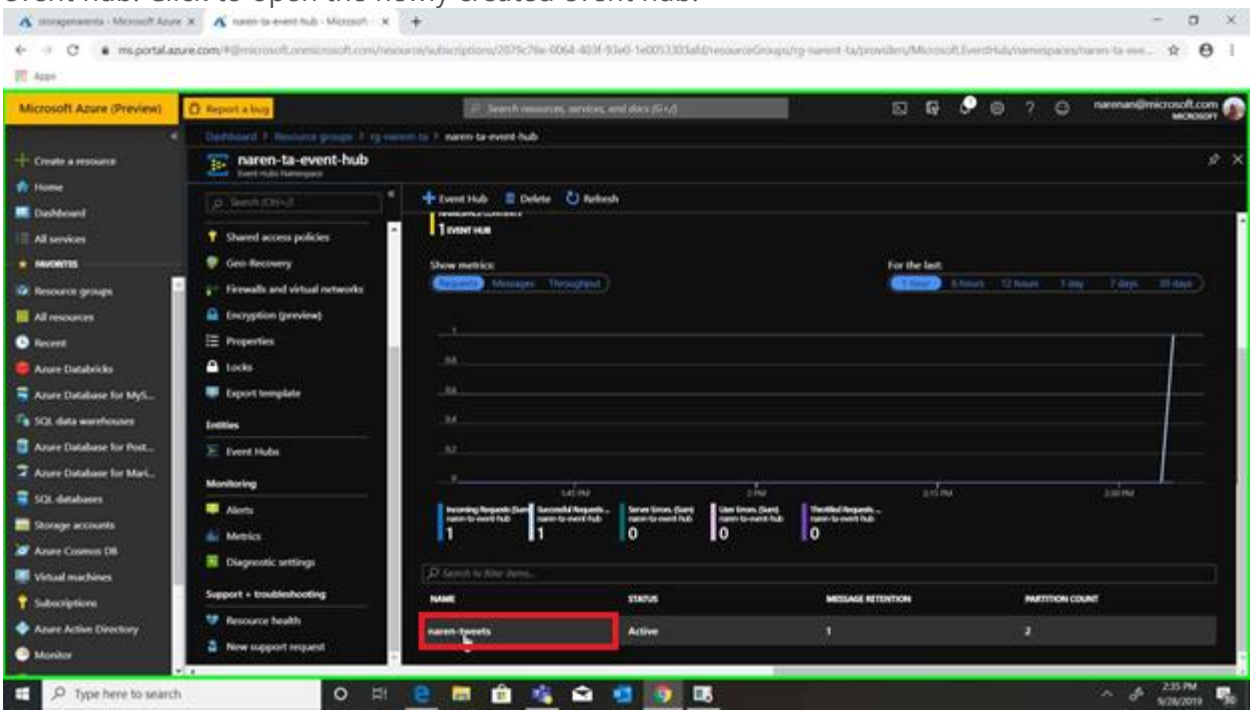
Step 2: Click on "+ Event Hub" to create new Event hub from the Event Hub Namespace blade.



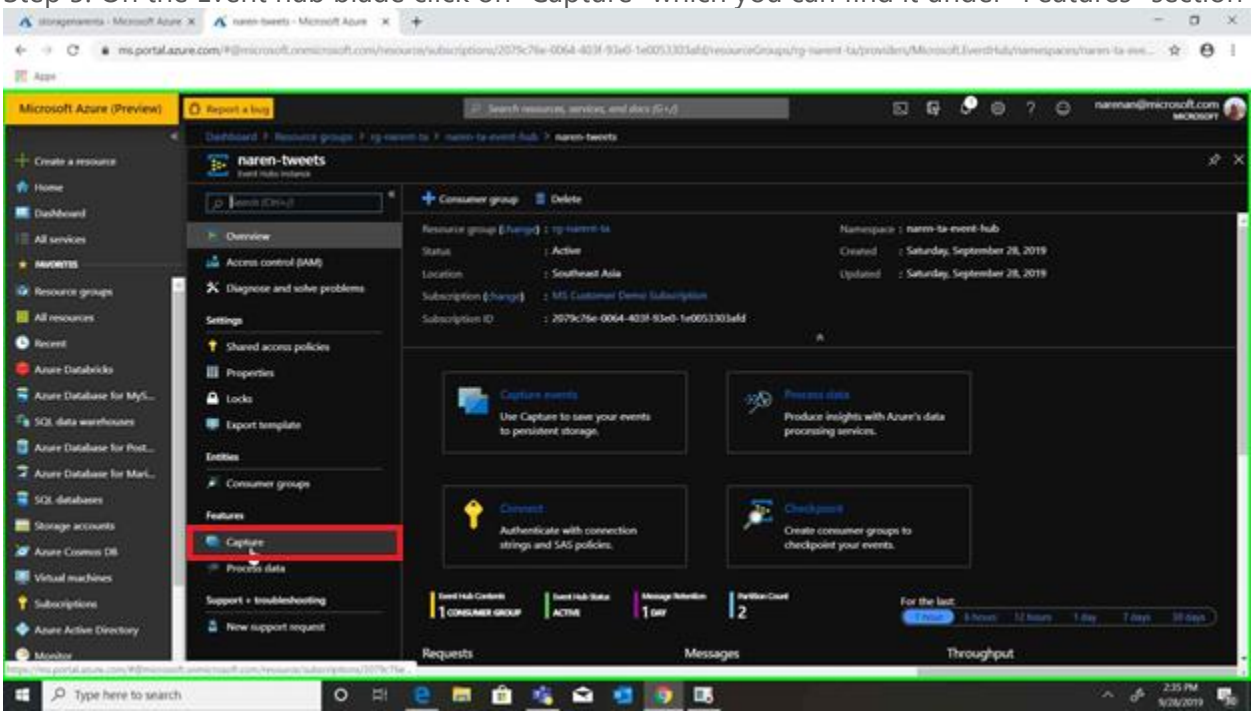
Step 3: On create Event Hub blade enter name for the event hub. Keep other settings as it is and click Create button to create new event hub.



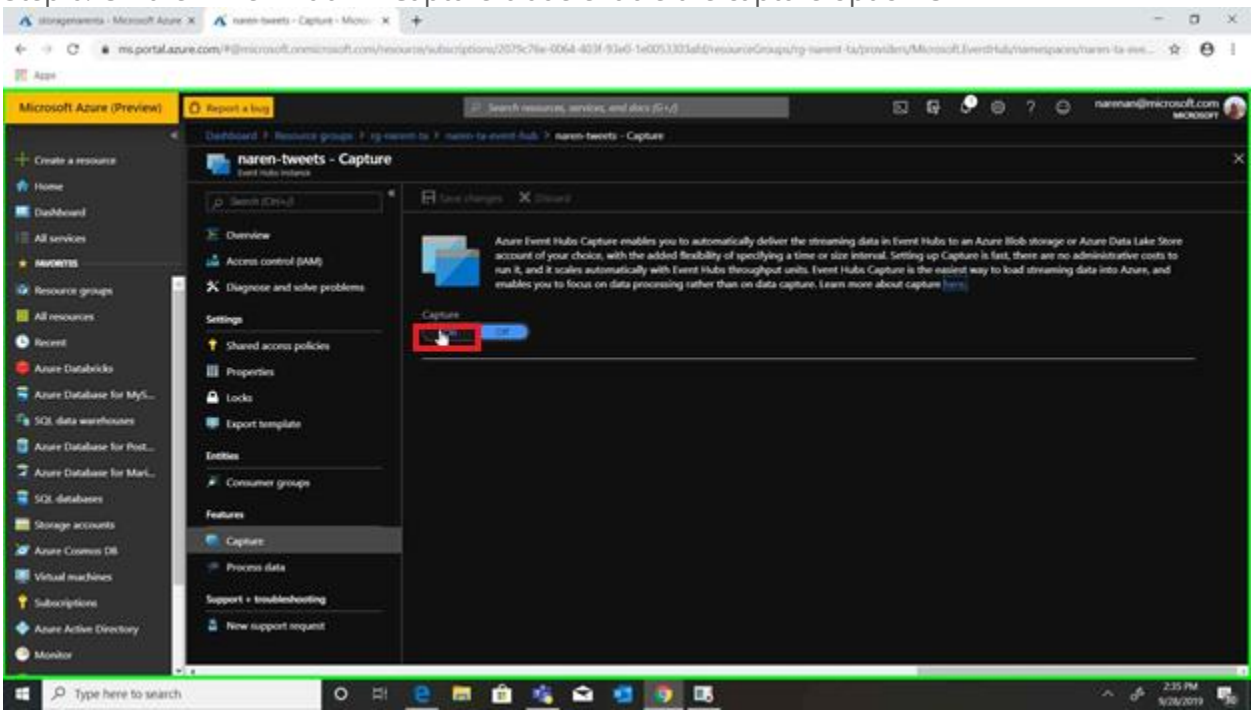
Step 4: On Event Hub Namespace blade scroll down little and you will see the newly created event hub. Click to open the newly created event hub.



Step 5: On the Event hub blade click on “Capture” which you can find it under “Features” section

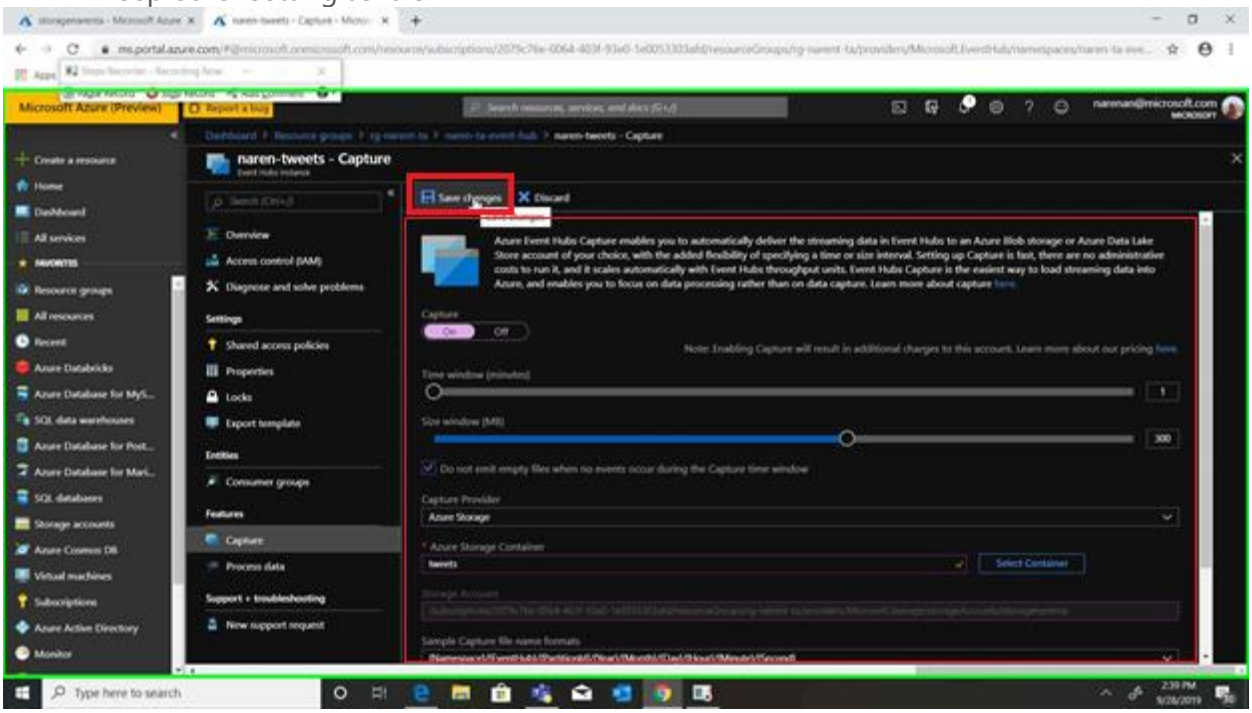


Step 6: On the <Even Hub> – Capture blade enable the capture option ON



Step 7: Enter the following information and click “Save Changes” button

- Time window (minutes): 1
- Size window (MB): 300
- Enable “Do not emit empty files when no events occur during the Capture time window”
- Capture Provider: Azure Storage
- Azure Storage Container: <Enter newly created blob storage>
- Keep other setting as it is



Congratulations! Event Hub got created successfully.