# HW #5 Microservice using Lambda and API Gateway

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**To create an API**

1. Sign in to the AWS Management Console and open the AWS Lambda console.
2. Choose **Create Lambda function**.
3. Choose **Blueprint**.
4. Enter **`microservice`** in the search bar. Choose the **microservice-http-endpoint** blueprint and then choose **Configure**.
5. Configure the following settings.
    - **Name** – **`lambda-microservice`**.
    - **Role** – **Create a new role from AWS policy templates**
    - **Role name** – **`lambda-apigateway-role`**.
    - **Policy templates** – **Simple microservice permissions**.
    - **API** – **Create a new API**.
    - **Security** – **Open**.

    Choose **Create function**.

**To create a DynamoDB table**

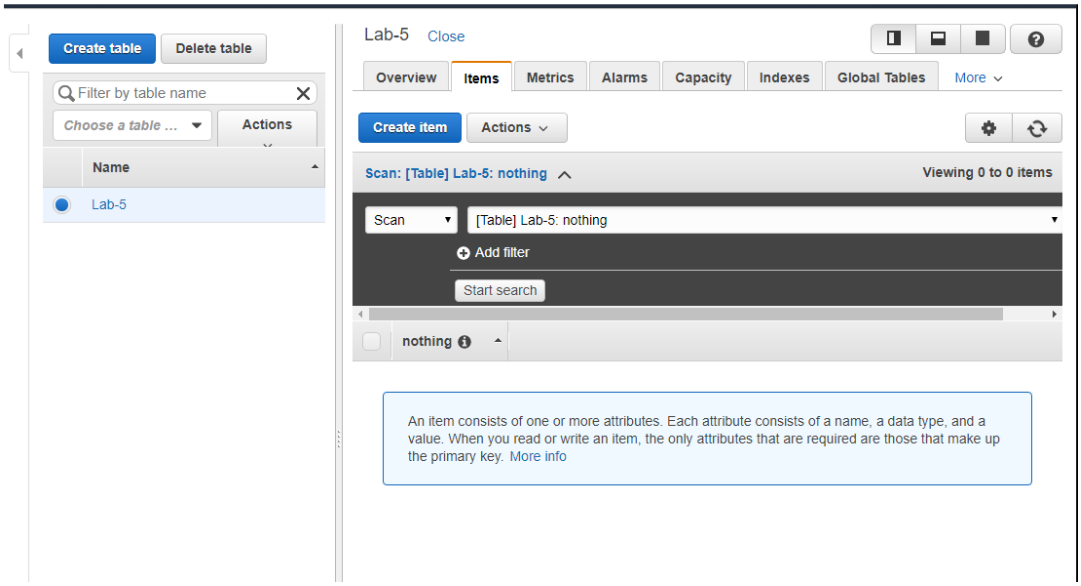
1. Open the DynamoDB console.
2. Choose **Create table**.
3. Create a table with the following settings.

- **Table name** – `Lab-5`
- **Primary key** – `nothing` (string)

4. Choose **Create**.

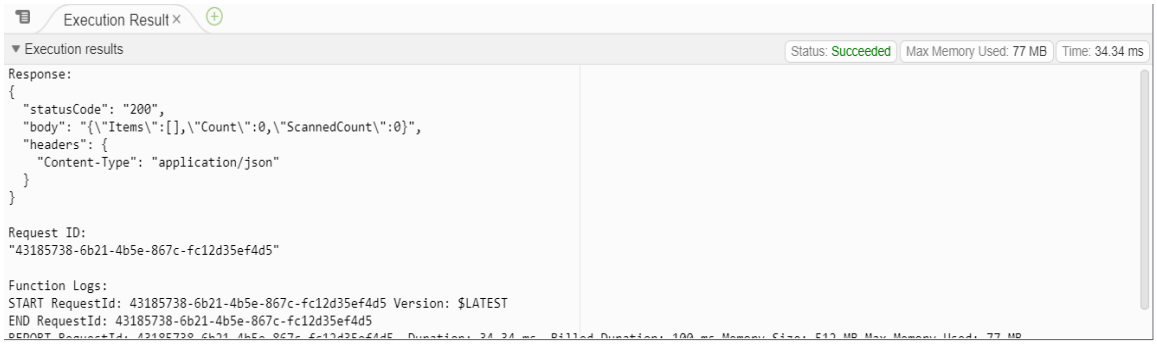
**To enable streams**

1. Open the DynamoDB console.
2. Choose **Tables**.
3. Choose the **lambda-dynamodb-stream** table.
4. Under **Overview**, choose **Manage stream**.
5. Choose **Enable**.

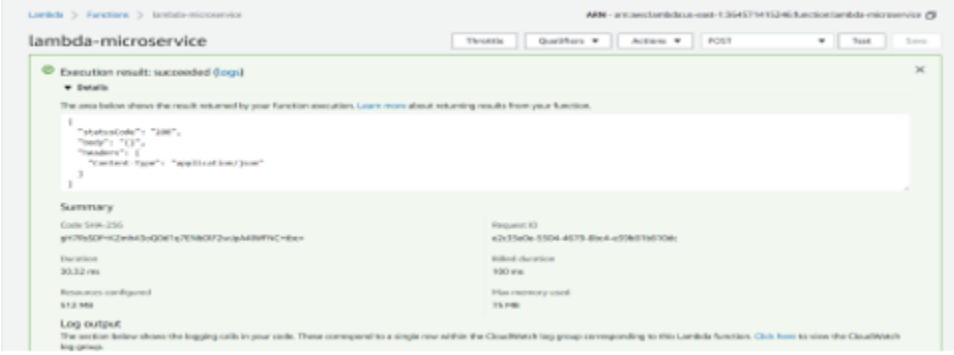



Excution results for GET

“200” means succeeded

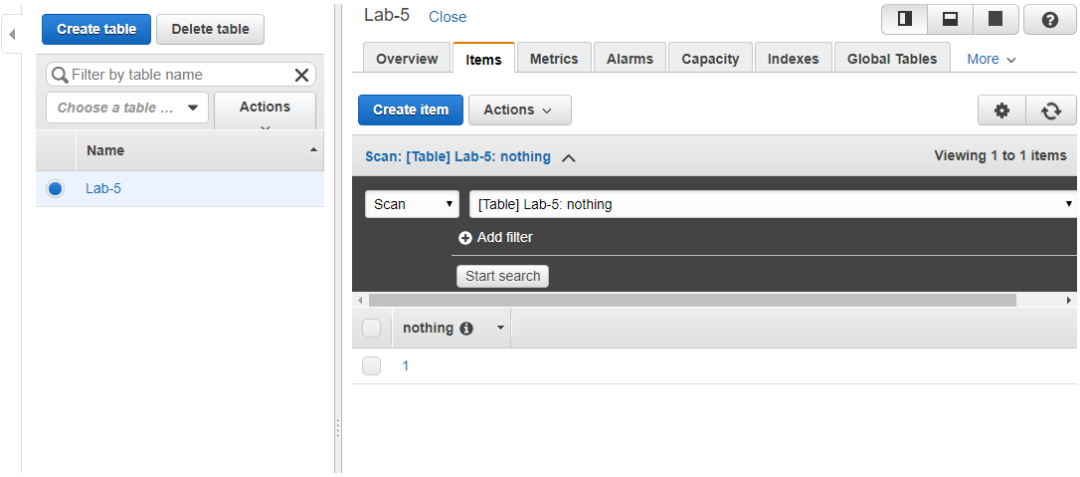


Excultion results for POST

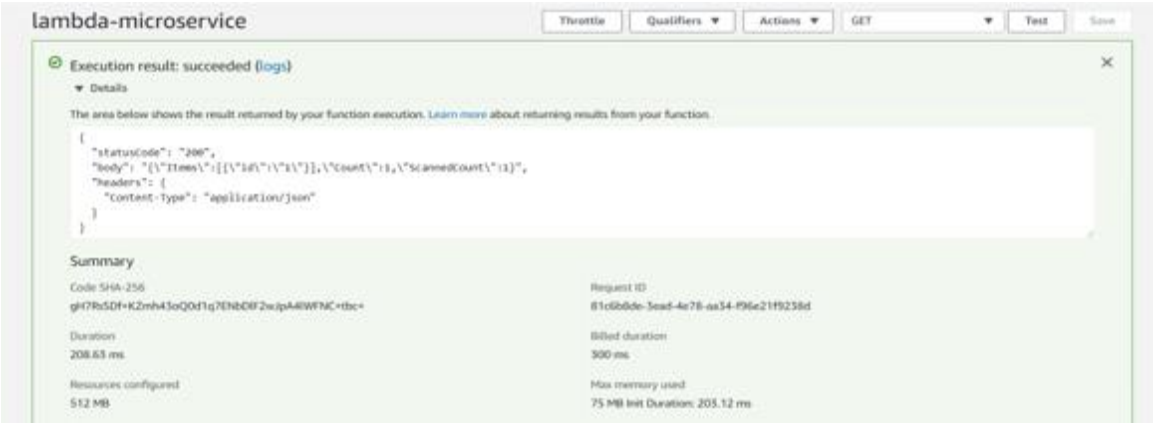



“200” means succeeded and no error

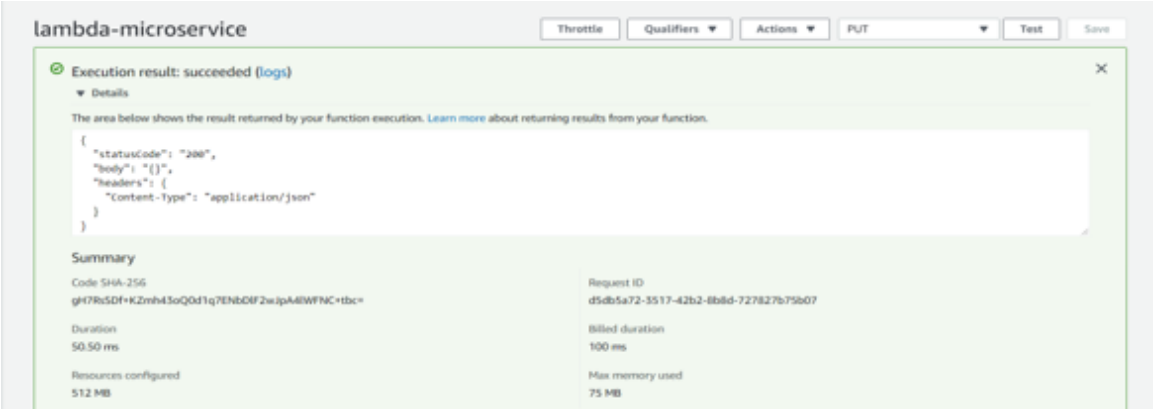
And an item has been created in table.

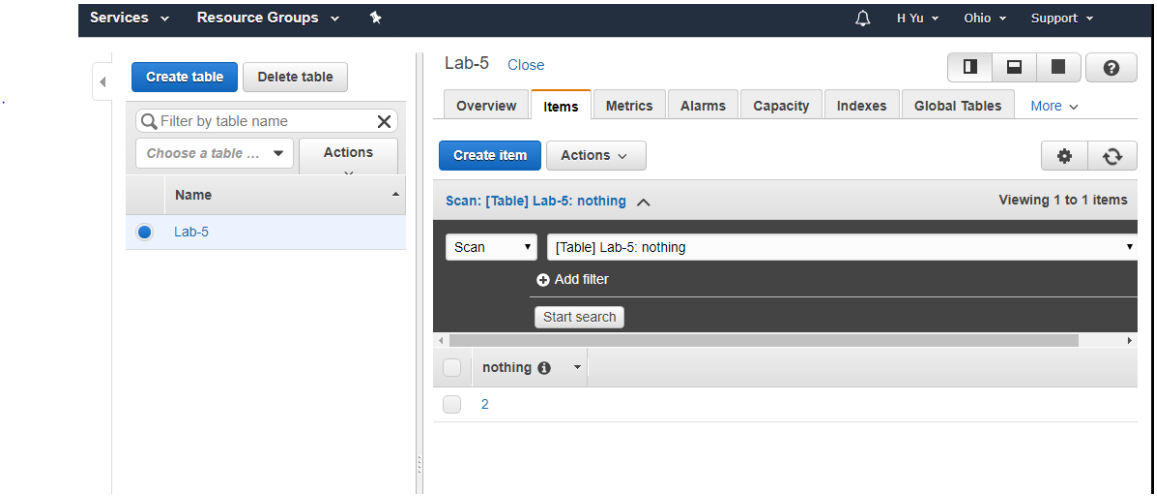



Acting GET again to verify

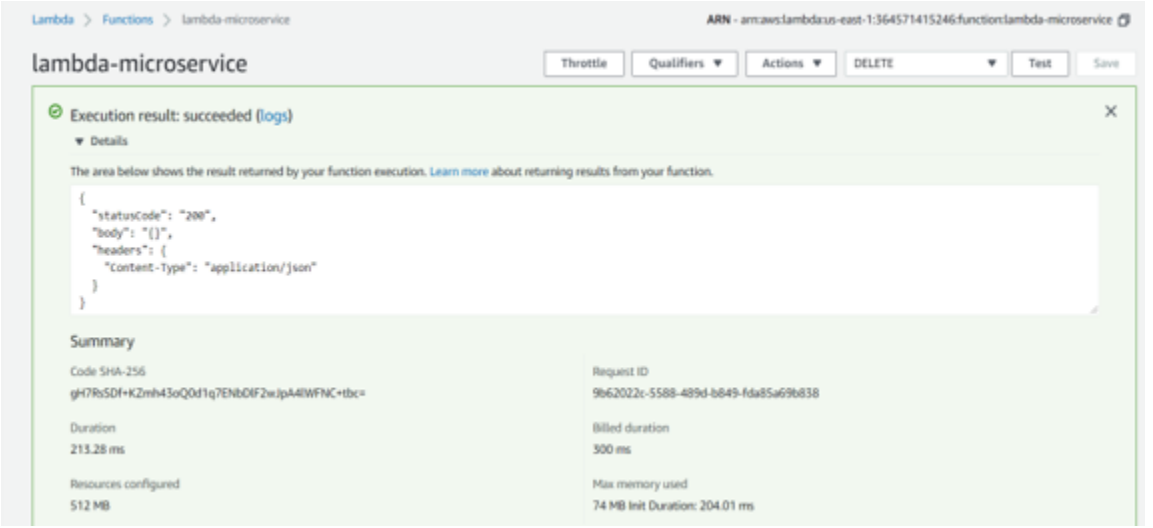


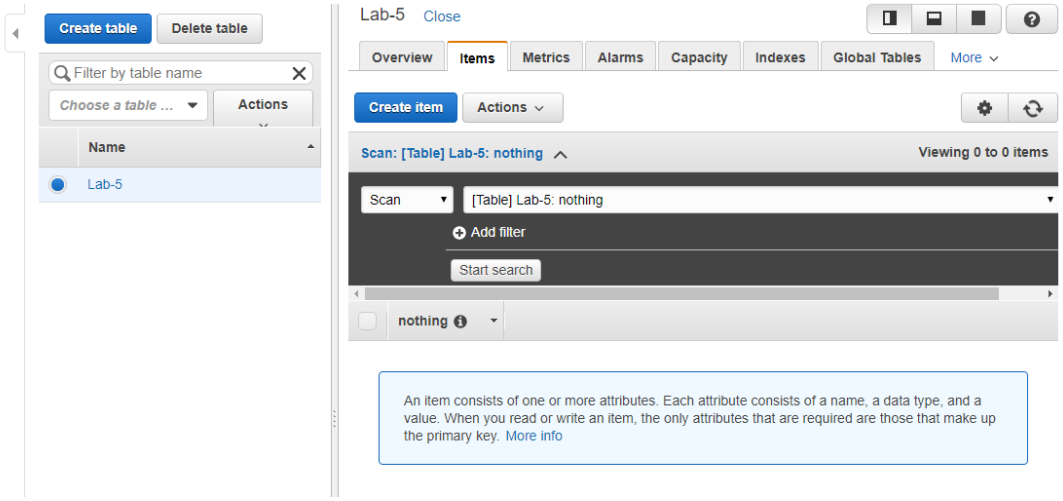
Acting PUT to change the item number to 2




Acting DELETE to delete item 2






Github:

https://github.com/Kwn1247/CMPE-207/tree/master/Assignments/Lab%205