

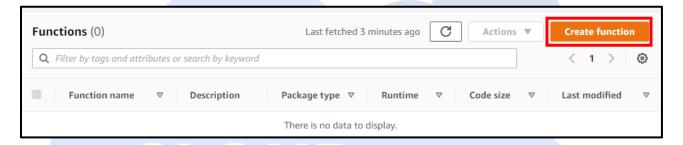
Tutorial to create a Microservice using AWS Lambda & Amazon API Gateway

Tutorial Objectives:

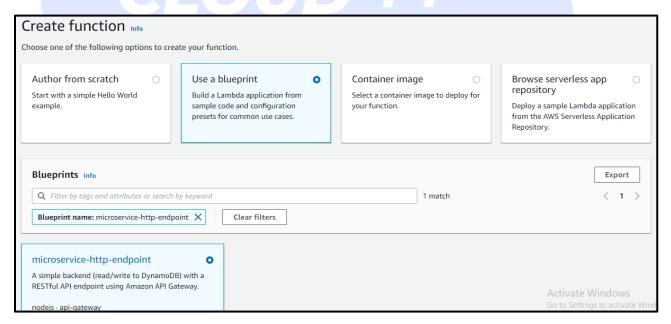
- 1. Learn to create a REST API using Amazon API Gateway.
- 2. Learn to create AWS Lambda function using AWS CLI

Step 1: Log on to your AWS Management Console and open AWS Lambda console.

Click on Create Function.



Step 2: Creating an API



Choose **Use a blueprint**.

Enter 'microservice' in the search bar. Choose the microservice-http-endpoint blueprint. Click on **Configure**.



Configure your function with 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 an API
- API Type HTTP API
- Security Open

Choose Create function.

Step 3: Testing the API

With your lambda-microservice function still open in the Lambda console, in the bottom, choose the **Test tab**.

Choose New event.

Choose the Hello World template.

In Name, enter as the name as **TestEvent**.

In the text entry panel, **replace the existing text** with the following and click on save changes.

```
"httpMethod": "GET",
"queryStringParameters": {
    "TableName": "MyTable" o partner for
}
```

(This GET command scans your DynamoDB table and returns all items found.)

Step 4: Once this is done, open AWS Management Console on another tab and open the DynamoDB console. Let us now create a table.

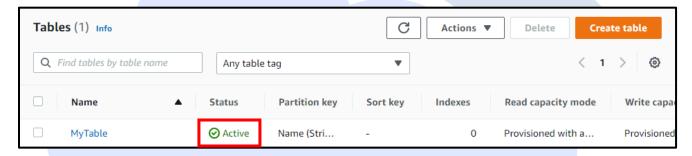




Table details Info DynamoDB is a schemaless database that requires only a table name and a primary key when you create the table.	
Table name This will be used to identify your table.	
MyTable	
Between 3 and 255 characters, containing only letters, numbers, underscores (_), hyphens (-), and periods (.).	
Partition key The partition key is part of the table's primary key. It is a hash value thosts for scalability and availability.	hat is used to retrieve items from your table and allocate data across
Name	String ▼
1 to 255 characters and case sensitive.	

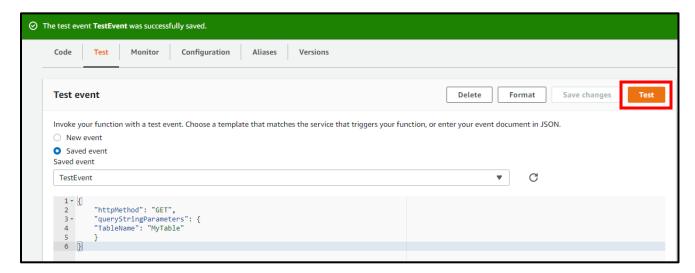
Make sure to **name** the table as 'MyTable' and set the **partition key** as Name.

Keeping the rest as default, click on Create Table.



Once the table is active, get back to the Lambda tab.

Now click on Test



Once you click on Test, the following details will be visible.



Note: Now, if you no longer need the resources, delete the DynamoDB table and the Lambda function that was created.



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Document Created by	Version
Bavyaa R	04-Feb-2022