Cloud Plus Plus Services

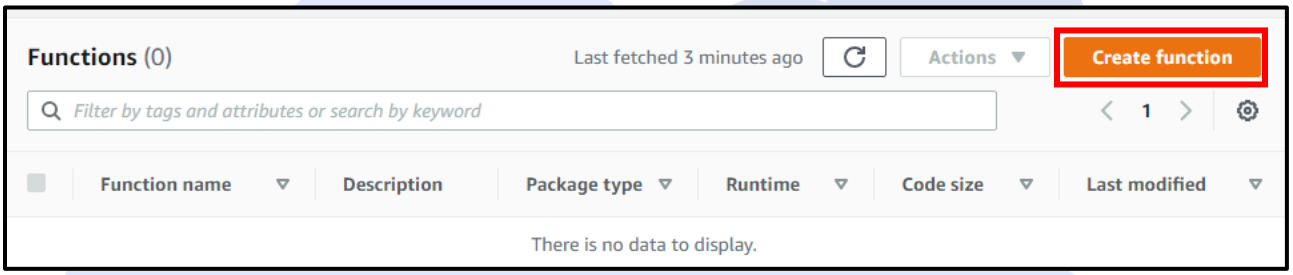
Tutorial to create a Microservice using AWS Lambda & Amazon API Gateway

Tutorial Objectives:

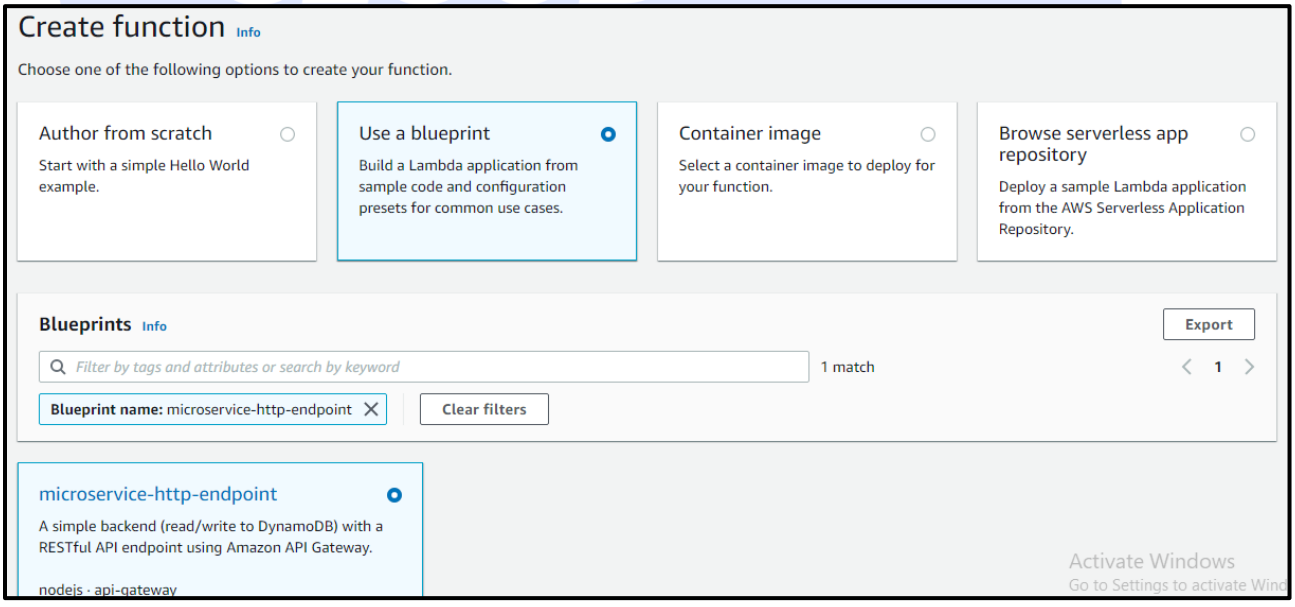
1. Learn to create a REST API using Amazon API Gateway.
2. Learn to create AWS Lambda function using AWS CLI

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**.

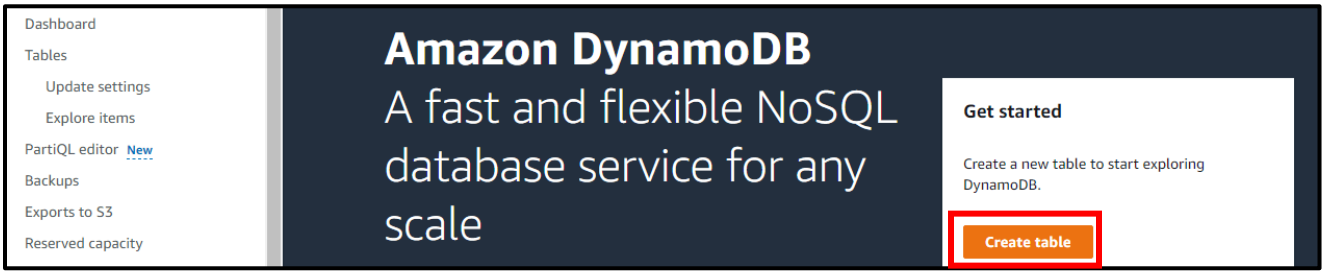
In Name, enter as the name as **TestEvent**.

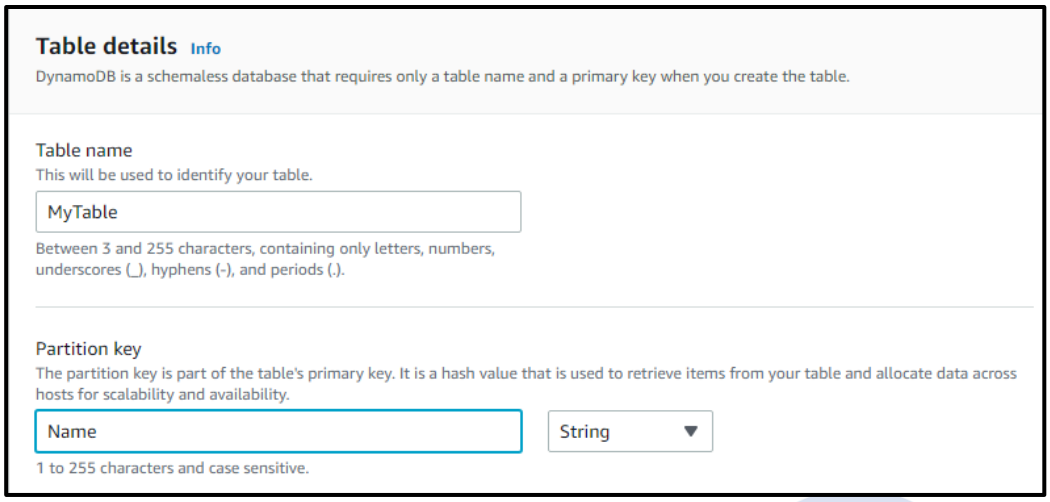
In the text entry panel, **replace the existing text** with the following and click on save changes.

```
{
    "httpMethod": "GET",
    "queryStringParameters": {
    "TableName": "MyTable"
    }
}
```

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

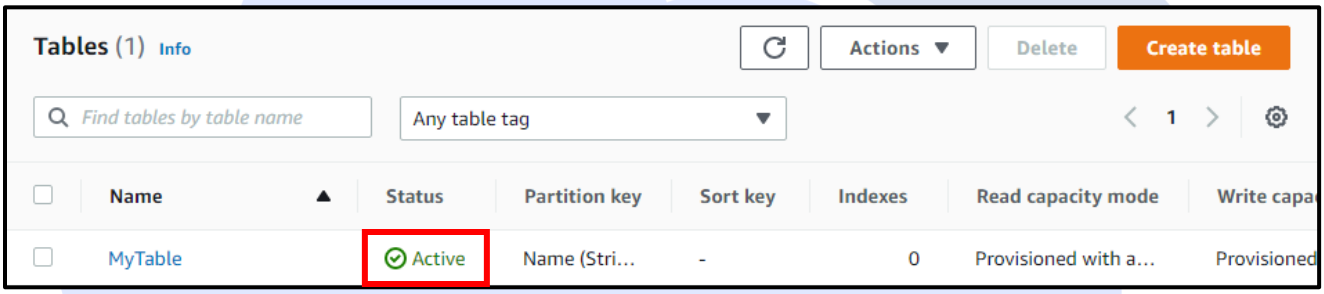
Step 4: Once this is done, open AWS Management Console on another tab and open the DynamoDB console. Let us now create a table.





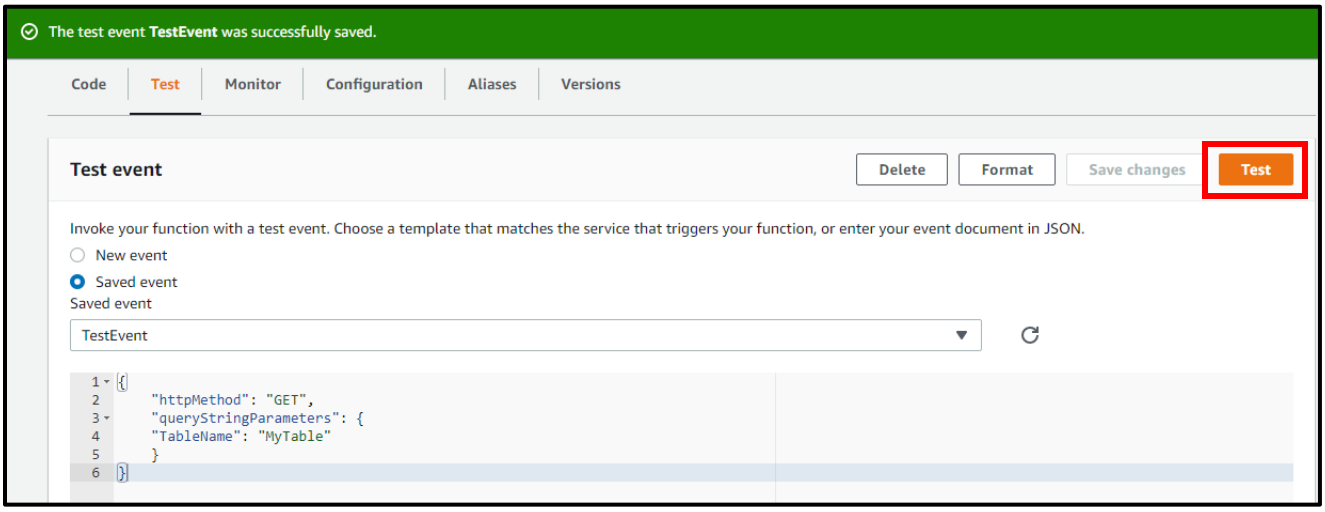
Make sure to **name** the table as '**MyTable**' and set the **partition key** as **Name**.

Keeping the rest as default, click on **Create Table**.

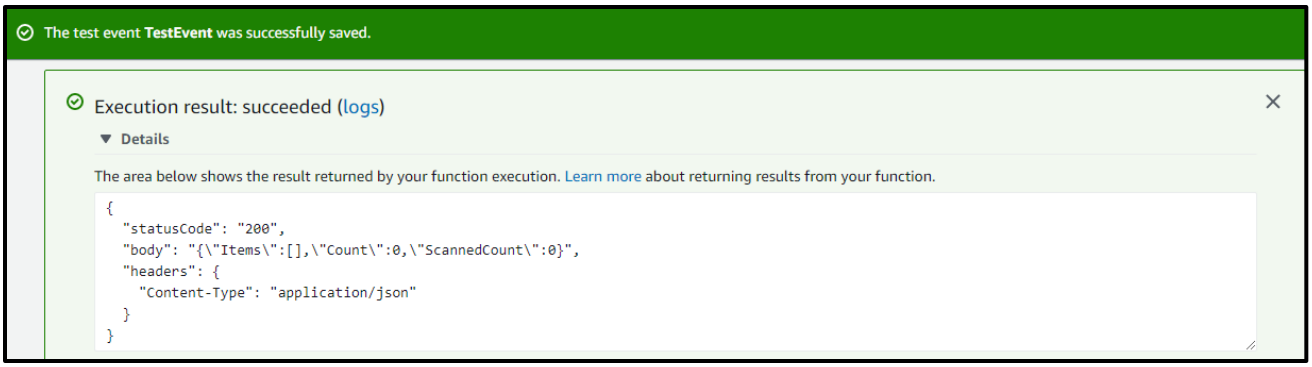


Once the table is active, get back to the Lambda tab.

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.

Document Created by	Version
Bavyaa R	04-Feb-2022