

Guided Lab: Creating an AWS Lambda Function that Interacts with an Amazon DynamoDB Table

Description

AWS Lambda is a serverless compute service that allows you to run code without provisioning or managing servers. DynamoDB is a fast and flexible NoSQL database service for all applications that need consistent, single-digit millisecond latency at any scale.

We will integrate these services to build a simple backend that handles basic HTTP operations—PUT, GET, POST, and DELETE—on a DynamoDB table. These HTTP methods correspond to common operations for interacting with a backend service:

- **GET:** Retrieve data from the database.
- **POST:** Create a new item in the database.
- **PUT:** Update an existing item in the database.
- **DELETE:** Remove an item from the database.

Prerequisites

This lab assumes you have a basic understanding of JavaScript (Node.js) and Familiarity with AWS Lambda functions and Dynamo DB (NoSQL Database).

If you find any gaps in your knowledge, consider taking the following lab:

- [Creating an Amazon DynamoDB table](#)
- [Creating a NodeJS Function in AWS Lambda](#)

Objectives

By the end of this lab, you will:

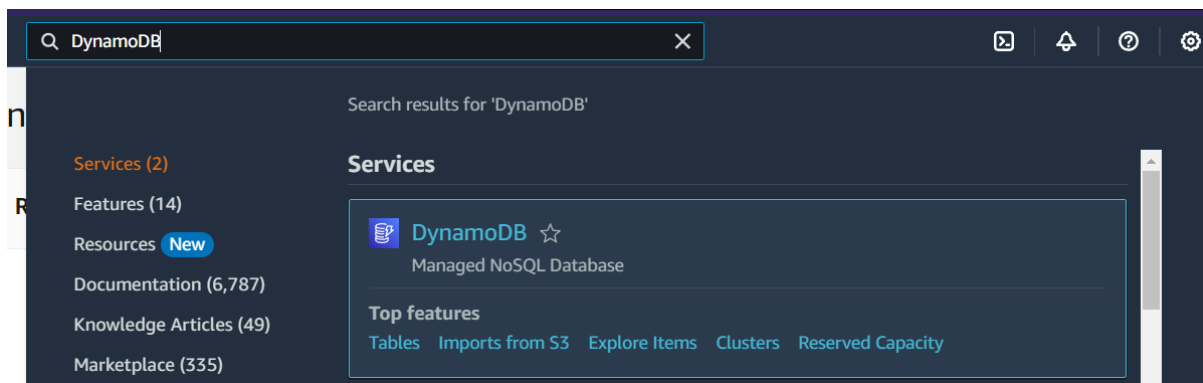
- Build a simple backend service using Lambda and DynamoDB.
- Implement basic HTTP methods (GET, POST, PUT, DELETE) to interact with a DynamoDB table.
- Test the Lambda function with predefined test events to validate its functionality.
- Gain hands-on experience with serverless architecture and NoSQL databases on AWS.

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Lab Steps

Create the DynamoDB Table

1. Navigate to the DynamoDB service in the AWS Management Console.



2. Create a new table with the following configurations:

- Table name: **PhilippinesCities**.
- Primary key: CityID (String)
- Sort key: Date (String)
- Table settings: Select Default settings

[DynamoDB](#) > [Tables](#) > [Create table](#)

Create 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.

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 that is used to retrieve items from your table and allocate data across hosts for scalability and availability.

String ▼

1 to 255 characters and case sensitive.

Sort key - optional
You can use a sort key as the second part of a table's primary key. The sort key allows you to sort or search among all items sharing the same partition key.

String ▼

1 to 255 characters and case sensitive.

Table settings

☒ **Default settings**
The fastest way to create your table. You can modify these settings now or after your table has been created.

☐ **Customize settings**
Use these advanced features to make DynamoDB work better for your needs.

- Click **Create table**

3. Ensure the table status is set to Active before proceeding to the next step.

4. Create the following items for the **PhilippinesCities** Table:

- **Item 1:**
 - CityID: **"001"** (String)
 - Date: **"2024-08-20"** (String)
 - CityName: **"Manila"** (String)
 - Population: **1780148** (Number)
 - AverageTemperature: **30.2** (Number)
 - Area: **42.88** (Number)

DynamoDB > Explore items: PhilippinesCities > Create item

Create item

You can add, remove, or edit the attributes of an item. You can nest attributes inside other attributes up to 32 levels deep. [Learn more](#)

Attributes			Add new attribute ▼
Attribute name	Value	Type	
CityID - Partition key	001	String	
Date - Sort key	2024-08-20	String	
CityName	Manila	String	Remove
Population	1780148	Number	Remove
AverageTemperature	30.2	Number	Remove
Area	42.88	Number	Remove

Cancel Create item

- **Item 2:**
 - CityID: **"002"** (String)
 - Date: **"2024-08-20"** (String)
 - CityName: **"Cebu City"** (String)
 - Population: **922611** (Number)
 - AverageTemperature: **29.5** (Number)
 - Area: **315.00** (Number)

- **Item 3:**

- CityID: **"003"** (String)
- Date: **"2024-08-20"** (String)
- CityName: **"Davao City"** (String)
- Population: **1843000** (Number)
- AverageTemperature: **28.8** (Number)
- Area: **2443.61** (Number)

The item has been saved successfully.

DynamoDB > Explore items > PhilippinesCities

Tables (1)

Any tag key

Any tag value

Find tables

PhilippinesCities

PhilippinesCities

Autopreview View table details

▼ Scan or query items

Scan Query

Select a table or index: Table - PhilippinesCities

Select attribute projection: All attributes

Filters

Run Reset

Items returned (3)

Actions Create item

	CityID (String)	Date (String)	Area	AverageTemperature	CityName	Population
<input type="checkbox"/>	003	2024-08-20	2443.61	28.8	Davao City	1843000
<input type="checkbox"/>	002	2024-08-20	315	29.5	Cebu City	922611
<input type="checkbox"/>	001	2024-08-20	42.88	30.2	Manila	1780148

Create the Lambda Function

1. Navigate to the Lambda service in the AWS Management Console.

Search results for 'lambda'


Services (7)

Features (5)

Resources **New**

Documentation (11,120)

Services

 **Lambda** ★

Run code without thinking about servers

2. Create Function using the following configurations:

- Choose Author from scratch.
- Function name: CityDataHandler

- Select Node.js 20.x as the runtime.

[Lambda](#) > [Functions](#) > Create function

Create function [Info](#)

Choose one of the following options to create your function.

☒ **Author from scratch**
Start with a simple Hello World example.

☐ **Use a blueprint**
Build a Lambda application from sample code and configuration presets for common use cases.

☐ **Container image**
Select a container image to deploy for your function.

Basic information

Function name
Enter a name that describes the purpose of your function.

Use only letters, numbers, hyphens, or underscores with no spaces.

Runtime [Info](#)
Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

▼

Architecture [Info](#)
Choose the instruction set architecture you want for your function code.

☒ x86_64

☐ arm64

- **Execution role:**
 - Select Use an Existing Role: PlayCloud-Sandbox

Permissions [Info](#)

By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

▼ **Change default execution role**

Execution role
Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

☐ Create a new role with basic Lambda permissions

☒ Use an existing role

☐ Create a new role from AWS policy templates

Existing role
Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.

▼

[View the PlayCloud-Sandbox role](#) on the IAM console.

► **Advanced settings**

Cancel

Create function

- Click on **Create Function**

Note: We are using the **old console editor** for this lab. You can switch to the **new editor** as you desire; the process remains the same, but the interface may look slightly different.

3. Paste the following code in the code editor

```
import { DynamoDB } from '@aws-sdk/client-dynamodb';
import { DynamoDBDocument } from '@aws-sdk/lib-dynamodb';

const dynamo = DynamoDBDocument.from(new DynamoDB());

/**
 * This function handles HTTP requests to interact with a DynamoDB table.
 * It supports GET, POST, PUT, and DELETE methods.
 */
export const handler = async (event) => {
  console.log('Received event:', JSON.stringify(event, null, 2));

  let responseBody;
  let statusCode = 200; // Default status code for successful requests
  const headers = {
    'Content-Type': 'application/json',
  };

  try {
    // Determine the HTTP method and perform the corresponding action
    switch (event.httpMethod) {
      case 'GET':
        // For GET requests, scan the DynamoDB table and return the data
        const scanParams = { TableName: event.queryStringParameters.TableName };
        responseBody = await dynamo.scan(scanParams);
        break;

      case 'POST':
```

```

    // For POST requests, add a new item to the DynamoDB table
    const postParams = JSON.parse(event.body);
    responseBody = await dynamo.put(postParams);
    break;

case 'PUT':
    // For PUT requests, update an existing item in the DynamoDB table
    const putParams = JSON.parse(event.body);
    responseBody = await dynamo.update(putParams);
    break;

case 'DELETE':
    // For DELETE requests, delete an item from the DynamoDB table
    const deleteParams = JSON.parse(event.body);
    responseBody = await dynamo.delete(deleteParams);
    break;

default:
    // If an unsupported HTTP method is used, return an error
    throw new Error(`Unsupported method "${event.httpMethod}"`);
}
} catch (err) {
    // If an error occurs, return a 400 status code and the error message
    statusCode = 400;
    responseBody = { error: err.message };
}

// Convert the response body to a JSON string
return {
    statusCode: statusCode.toString(), // Convert status code to string
    body: JSON.stringify(responseBody),

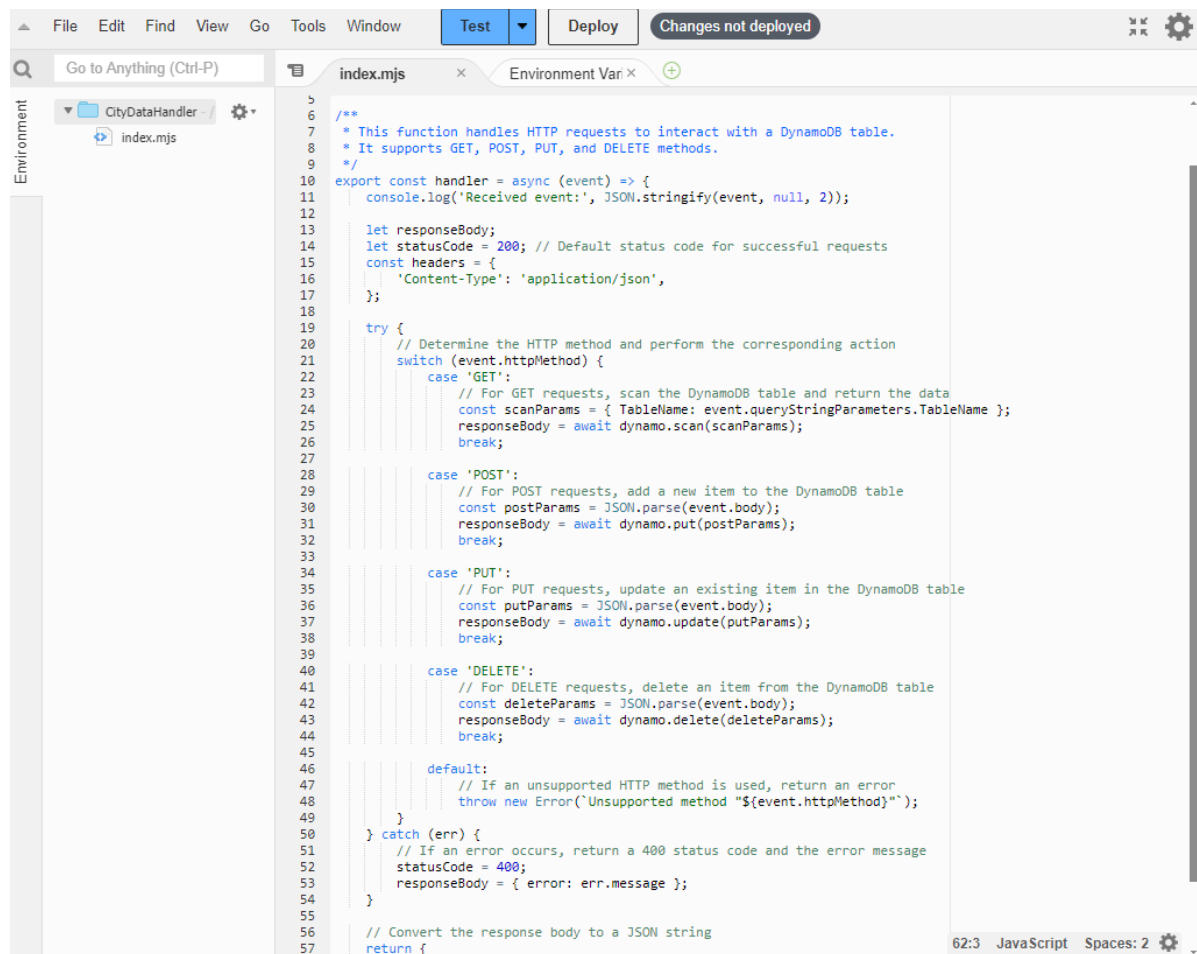
```

headers,

};

};

4. Take your time to review the code:



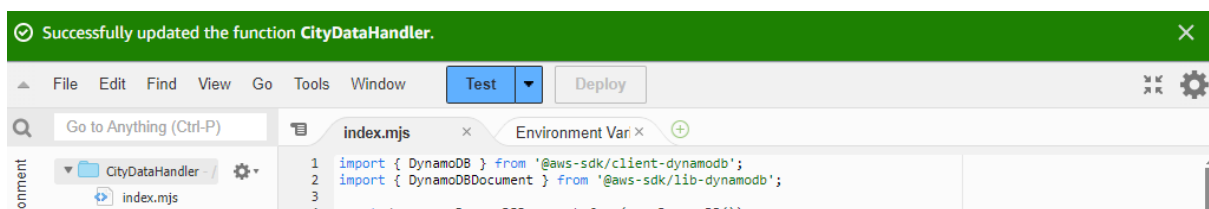
```
5  /**
6  * This function handles HTTP requests to interact with a DynamoDB table.
7  * It supports GET, POST, PUT, and DELETE methods.
8  */
9
10 export const handler = async (event) => {
11   console.log('Received event:', JSON.stringify(event, null, 2));
12
13   let responseBody;
14   let statusCode = 200; // Default status code for successful requests
15   const headers = {
16     'Content-Type': 'application/json',
17   };
18
19   try {
20     // Determine the HTTP method and perform the corresponding action
21     switch (event.httpMethod) {
22       case 'GET':
23         // For GET requests, scan the DynamoDB table and return the data
24         const scanParams = { TableName: event.queryStringParameters.TableName };
25         responseBody = await dynamo.scan(scanParams);
26         break;
27
28       case 'POST':
29         // For POST requests, add a new item to the DynamoDB table
30         const postParams = JSON.parse(event.body);
31         responseBody = await dynamo.put(postParams);
32         break;
33
34       case 'PUT':
35         // For PUT requests, update an existing item in the DynamoDB table
36         const putParams = JSON.parse(event.body);
37         responseBody = await dynamo.update(putParams);
38         break;
39
40       case 'DELETE':
41         // For DELETE requests, delete an item from the DynamoDB table
42         const deleteParams = JSON.parse(event.body);
43         responseBody = await dynamo.delete(deleteParams);
44         break;
45
46       default:
47         // If an unsupported HTTP method is used, return an error
48         throw new Error('Unsupported method "${event.httpMethod}"');
49     }
50   } catch (err) {
51     // If an error occurs, return a 400 status code and the error message
52     statusCode = 400;
53     responseBody = { error: err.message };
54   }
55
56   // Convert the response body to a JSON string
57   return {
```

Code Breakdown:

- **Imports:**
 - DynamoDB and DynamoDBDocument are imported from the AWS SDK. These are used to interact with the DynamoDB service. DynamoDBDocument provides a more user-friendly interface for working with DynamoDB operations.
- **Initialization:**
 - The dynamo object is created by wrapping a DynamoDB client with DynamoDBDocument, making it easier to interact with DynamoDB using native JavaScript objects.
- **Handler Function:**

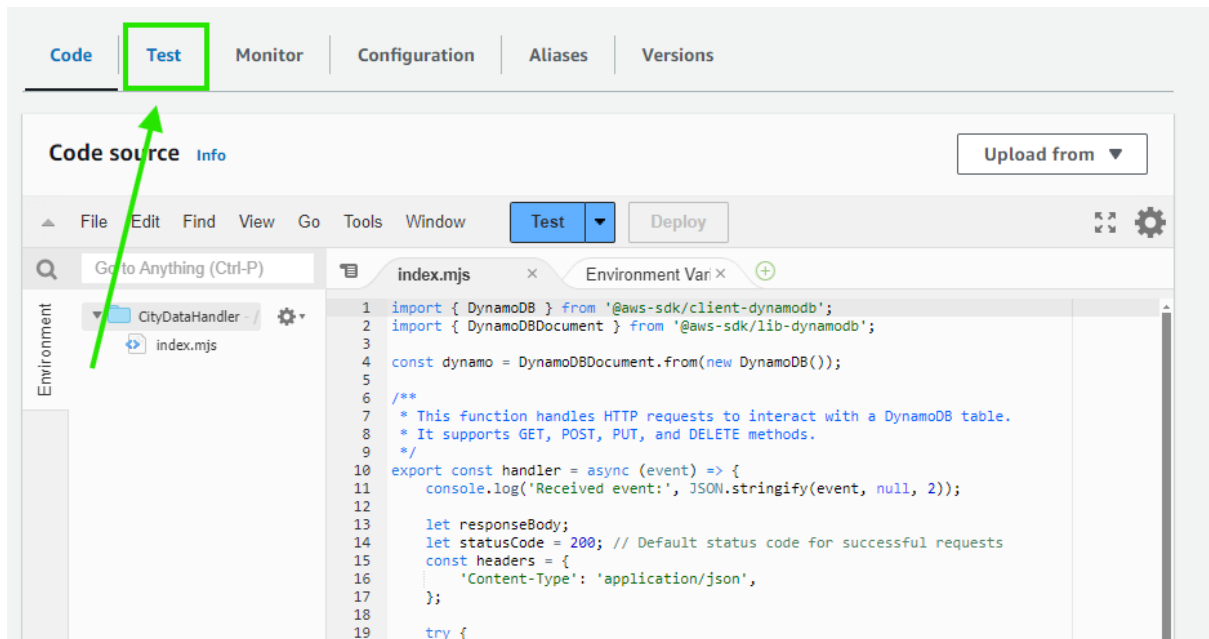
- The handler function is the main entry point for the Lambda function. It processes incoming HTTP requests and performs the corresponding action on the DynamoDB table based on the HTTP method provided in the request.
- **Request Handling:**
 - The function logs the incoming event for debugging purposes.
 - It initializes responseBody for storing the response and sets the default status code to 200.
 - Based on the httpMethod in the incoming event, the function performs different operations:
 - **GET:** Scans the entire DynamoDB table and returns all items.**POST:** Adds a new item to the table by parsing the request body and using the put method.
 - **PUT:** Updates an existing item in the table using the update method.
 - **DELETE:** Deletes an item from the table using the delete method.
 - If an unsupported HTTP method is used, an error is thrown.
- **Error Handling:**
 - If any error occurs during the operation, the function catches the error, sets the status code to 400, and includes the error message in the response.
- **Response:**
 - The function returns a JSON response containing the status code, response body, and headers.

5. Deploy the Lambda Function to save the code.



Test the Lambda Function Using Test Events

1. Navigate to the Test tab of the AWS Lambda Dashboard.



2. Once in the Test tab, click on **Create new event**:

- Event name: GET_Event_Test
- In the Event JSON, paste the following:

```
{  
  "httpMethod": "GET",  
  "queryStringParameters": {  
    "TableName": "PhilippinesCities"  
  },  
  "body": null  
}
```

*This test event triggers a scan of the entire **PhilippinesCities** table and returns all items.*

- Click on **Save**

✓ The test event **GET_Event_Test** was successfully saved.

Code **Test** Monitor Configuration Aliases Versions

Test event [Info](#)

Save

Test

To invoke your function without saving an event, configure the JSON event, then choose Test.

Test event action

☒ Create new event

☐ Edit saved event

Event name

GET_Event_Test

Maximum of 25 characters consisting of letters, numbers, dots, hyphens and underscores.

Event sharing settings

☒ Private

This event is only available in the Lambda console and to the event creator. You can configure a total of 10. [Learn more](#)

☐ Shareable

This event is available to IAM users within the same account who have permissions to access and use shareable events. [Learn more](#)

Template - optional

Event JSON

Format JSON

```
1 {  
2   "httpMethod": "GET",  
3   "queryStringParameters": {  
4     "TableName": "PhilippinesCities"  
5   },  
6   "body": null  
7 }
```

- Then, click on **Test**. Wait for the test event to become successful. Lastly, expand the Details of the Test.

Executing function: succeeded (logs [logs](#))

▼ Details

The area below shows the last 4 KB of the execution log.

```

{
  "statusCode": "200",
  "body": "{\n  \"Metadata\": {\n    \"httpStatusCode\": 200, \"requestId\": \"80DUZEEHQJ5L9293F90603LAFVW4KQNS0SAEM/JF66Q0ASUAAJG\", \"attempts\": 1, \"totalRetr\nyDelay\": 0, \"Count\": 3, \"Items\": [{\n    \"AverageTemperature\": 30.2, \"Date\": \"2024-08-20\", \"Area\": 42.88, \"CityName\": \"Manila\", \"CityID\": \"001\", \"Population\": 1780148}, {\n    \"AverageTemperature\": 28.8, \"Date\": \"2024-08-20\", \"Area\": 2443.61, \"CityName\": \"Davao City\", \"CityID\": \"003\", \"Population\": 1843000}, {\n    \"AverageTemperature\": 29.5, \"Date\": \"2024-08-20\", \"Area\": 315, \"CityName\": \"Cebu City\", \"CityID\": \"002\", \"Population\": 922611}], \"ScannedCount\": 3},\n  \"headers\": {\n    \"Content-Type\": \"application/json\"\n  }\n}"
                
```

Summary

Code SHA-256

ks+OYX3oc5SbSaWjkPqfjxxuXWGoYW5tvEjPMD/zjk=

Request ID

e1e6bcab-2078-423a-9822-704807a20bba

Init duration

412.17 ms

Billed duration

1106 ms

Max memory used

88 MB

Execution time

1 minute ago (August 20, 2024 at 11:38 AM GMT+8)

Function version

\$LATEST

Duration

1105.75 ms

Resources configured

128 MB

Log output

The section below shows the logging calls in your code. [Click here](#) to view the corresponding CloudWatch log group.

```

START RequestId: e1e6bcab-2078-423a-9822-704807a20bba Version: $LATEST
2024-08-20T03:38:18.392Z e1e6bcab-2078-423a-9822-704807a20bba INFO Received event: {
  "httpMethod": "GET",
  "queryStringParameters": {
    "TableName": "PhilippinesCities"
  },
  "body": null
}
END RequestId: e1e6bcab-2078-423a-9822-704807a20bba
REPORT RequestId: e1e6bcab-2078-423a-9822-704807a20bba Duration: 1105.75 ms Billed Duration: 1106 ms Memory Size: 128 MB Max Memory Used: 88 MB Init Duration: 412.17 ms
                
```

- Take your time to review the result of the test. It should return the Table items of the **PhilippinesCities** Dynamo DB table

3. Now lets create another Test Event using the following details:

- Event name: POST_Event_Test
- In the Event JSON, paste the following:

```

{
  "httpMethod": "POST",
  "queryStringParameters": null,
  "body": "{\n  \"TableName\": \"PhilippinesCities\", \"Item\": {\n    \"CityID\": \"004\", \"Date\": \"2024-08-20\", \"CityName\": \"Iloilo City\", \"Population\": 457626, \"AverageTemperature\": 29.0, \"Area\": 113.62}\n}"
}
    
```

This test event adds a new item (Iloilo City) to the **PhilippinesCities** table.

- Click on **Save**
- Click on **Test**

✓ The test event **POST_Event_Test** was successfully saved.

▼ Details

The area below shows the last 4 KB of the execution log.

```
{
  "statusCode": "200",
  "body": "{\n\"$metadata\":
{\n\"httpStatusCode\":200,\n\"requestId\":\n\"NOH5UQ8CKU9F6225IRJPKA7J3EVVV4KQNS05AEWJF66Q9ASUAAJG\\\",
\n\"attempts\":1,\n\"totalRetryDelay\":0}}\",
  \"headers\": {
    \"Content-Type\": \"application/json\"
  }
}
```

Summary

Code SHA-256 ks+OYX3ocSSbSaWJkPqfJlxxuXWGoYW5tvEjPMD/zjk=	Execution time 1 minute ago (August 20, 2024 at 11:46 AM GMT+8)
Request ID 6b9d0685-cace-468b-9c3f-58729c43aa69	Function version \$LATEST
Init duration 365.17 ms	Duration 1101.02 ms
Billed duration 1102 ms	Resources configured 128 MB
Max memory used 87 MB	

Log output

The section below shows the logging calls in your code. [Click here](#) to view the corresponding CloudWatch log group.

```
START RequestId: 6b9d0685-cace-468b-9c3f-58729c43aa69 Version: $LATEST
2024-08-20T03:46:54.270Z 6b9d0685-cace-468b-9c3f-58729c43aa69 INFO Received event: {
  "httpMethod": "POST",
  "queryStringParameters": null,
  "body": "{\n\"TableName\": \"PhilippinesCities\", \"Item\": {\n\"CityID\": \"004\\\", \"Date\": \"2024-08-20\\\", \"CityName\":
\n\"Iloilo City\\\", \"Population\": 457626, \"AverageTemperature\": 29.0, \"Area\": 113.62}}\"
}
```

- Navigate back to the Dynamo DB Table **PhilippinesCities**, then on the on the explore items. The newly added item (Iloilo City) should be visible in the items table.

Items returned (4)							Actions ▼	Create item
							< 1 >	⚙️
<input type="checkbox"/>	CityID (String) ▼	Date (String) ▼	Area ▼	AverageTemperature ▼	CityName ▼	Population ▼		
<input type="checkbox"/>	004	2024-08-20	113.62	29	Iloilo City	457626		
<input type="checkbox"/>	003	2024-08-20	2443.61	28.8	Davao City	1843000		
<input type="checkbox"/>	002	2024-08-20	315	29.5	Cebu City	922611		
<input type="checkbox"/>	001	2024-08-20	42.88	30.2	Manila	1780148		

4. Take note of the Average Temperature of CityID **001** CityName **Manila**.

5. Navigate back to the Lambda Function **CityDataHandler**. Then, to the **Test** tab. Create this time the **PUT Request Test**:

- Event name: PUT_Event_Test
- In the Event JSON, paste the following:

```
{
  "httpMethod": "PUT",
  "queryStringParameters": null,
```

```
"body": "{\"TableName\": \"PhilippinesCities\", \"Key\": {\"CityID\": \"001\", \"Date\": \"2024-08-20\"}, \"UpdateExpression\": \"set AverageTemperature = :t\", \"ExpressionAttributeValues\": {\":t\": 33.3}}\""}
}
```

This test event updates the **AverageTemperature** of Manila in the **PhilippinesCities** table.

- Click on **Save** and then **Test**.

✓ The test event **PUT_Event_Test** was successfully saved.

▼ Details

The area below shows the last 4 KB of the execution log.

```
{
  "statusCode": "200",
  "body": "{\"$metadata\": {
    \"httpStatusCode\": 200, \"requestId\": \"9PNU09S9NS1J1M1UAC89A749G7V4KQNS05AEMVJF66Q9ASUAAJG\", \"attempts\": 1, \"totalRetryDelay\": 0}}\",
  \"headers\": {
    \"Content-Type\": \"application/json\"
  }
}
```

Summary

Code SHA-256 ks+0YX3ocSSbSaWJkPqfjlxuXWGoYW5tvEjPMD/zjk=	Execution time 12 seconds ago (August 20, 2024 at 12:00 PM GMT+8)
Request ID c46fbb9c-f70c-45ac-ac9a-42d603e615f2	Function version \$LATEST
Init duration 343.94 ms	Duration 1047.48 ms
Billed duration 1048 ms	Resources configured 128 MB
Max memory used 87 MB	

Log output

The section below shows the logging calls in your code. [Click here](#) to view the corresponding CloudWatch log group.

```
START RequestId: c46fbb9c-f70c-45ac-ac9a-42d603e615f2 Version: $LATEST
2024-08-20T04:00:54.321Z c46fbb9c-f70c-45ac-ac9a-42d603e615f2 INFO Received event: {
  "httpMethod": "PUT",
  "queryStringParameters": null,
  "body": "{\"TableName\": \"PhilippinesCities\", \"Key\": {\"CityID\": \"001\", \"Date\": \"2024-08-20\"}, \"UpdateExpression\": \"set AverageTemperature = :t\", \"ExpressionAttributeValues\": {\":t\": 33.3}}\""}
}
END RequestId: c46fbb9c-f70c-45ac-ac9a-42d603e615f2
REPORT RequestId: c46fbb9c-f70c-45ac-ac9a-42d603e615f2 Duration: 1047.48 ms Billed Duration: 1048 ms Memory Size: 128 MB Max
```

- Navigate again to the Dynamo DB table and observe that the Average Temperature for Manila has changed from 30.2 to **33.3**

Items returned (4)							
		Refresh		Actions ▼		Create item	
		< 1 >		⚙️		🔍	
<input type="checkbox"/>	CityID (String) ▼	Date (String) ▼	Area ▼	AverageTemperature ▼	CityName ▼	Population ▼	
<input type="checkbox"/>	004	2024-08-20	113.62	29	Iloilo City	457626	
<input type="checkbox"/>	003	2024-08-20	2443.61	28.8	Davao City	1843000	
<input type="checkbox"/>	002	2024-08-20	315	29.5	Cebu City	922611	
<input type="checkbox"/>	001	2024-08-20	42.88	33.3	Manila	1780148	

6. For the last test, navigate back to the Lambda Function again and create a new test event:

- Event name: DELETE_Event_Test
- In the Event JSON, paste the following:

```
{
  "httpMethod": "DELETE",
  "queryStringParameters": null,
  "body": "{\"TableName\": \"PhilippinesCities\", \"Key\": {\"CityID\": \"002\", \"Date\": \"2024-08-20\"}}}"
}
```

This test event deletes the item with CityID: "002" (Cebu City) from the **PhilippinesCities** table.

- Click on **Save** and then **Test**.

The test event **DELETE_Event_Test** was successfully saved.

Details

The area below shows the last 4 KB of the execution log.

```
{
  "statusCode": "200",
  "body": "{\"$metadata\": {
    \"httpStatusCode\": \"200\", \"requestId\": \"S27P8IJ7PUEBTQM3REG0C3QP03VV4KQNS05AEMVJF66Q9ASUAAJG\", \"attempts\": 1, \"totalRetryDelay\": 0}},
  \"headers\": {
    \"Content-Type\": \"application/json\"
  }
}
```




Summary	
Code SHA-256 ks+0YX3ocSSbSaWJkPqfJxxuXWGoYW5tvEjPMD/zjk=	Execution time 1 second ago (August 20, 2024 at 12:05 PM GMT+8)
Request ID 4347e196-484a-4fbe-a539-9fe9205efa11	Function version \$LATEST
Duration 504.58 ms	Billed duration 505 ms
Resources configured 128 MB	Max memory used 87 MB

Log output

The section below shows the logging calls in your code. [Click here](#) to view the corresponding CloudWatch log group.

```
START RequestId: 4347e196-484a-4fbe-a539-9fe9205efa11 Version: $LATEST
2024-08-20T04:05:11.066Z      4347e196-484a-4fbe-a539-9fe9205efa11    INFO    Received event: {
  "httpMethod": "DELETE",
  "queryStringParameters": null,
  "body": "{\"TableName\": \"PhilippinesCities\", \"Key\": {\"CityID\": \"002\", \"Date\": \"2024-08-20\"}}}"
}
END RequestId: 4347e196-484a-4fbe-a539-9fe9205efa11
REPORT RequestId: 4347e196-484a-4fbe-a539-9fe9205efa11  Duration: 504.58 ms    Billed Duration: 505 ms Memory Size: 128 MB    Max Memory
Used: 87 MB
```

- Navigate again to the Dynamo DB table and observe the item with CityID: "002" (Cebu City) from the **PhilippinesCities** table was deleted.

Items returned (3)								Actions ▼	Create item
							< 1 >  		
<input type="checkbox"/>	CityID (String) ▼	Date (String) ▼	Area ▼	AverageTemperature ▼	CityName ▼	Population ▼			
<input type="checkbox"/>	004	2024-08-20	113.62	29	Iloilo City	457626			
<input type="checkbox"/>	003	2024-08-20	2443.61	28.8	Davao City	1843000			
<input type="checkbox"/>	001	2024-08-20	42.88	33.3	Manila	1780148			

That's it! Congratulations! You've successfully created a serverless backend using AWS Lambda and DynamoDB. By integrating these powerful services, you've learned how to handle basic CRUD operations—GET, POST, PUT, and DELETE—via simulated HTTP requests using test events in Lambda. This lab is a fundamental building block for creating scalable and cost-effective serverless applications.

Throughout the lab, you configured a DynamoDB table to store city-related data and used Lambda functions to interact with the database. You also learned how to test your Lambda function using predefined test events, ensuring that your code performs as expected. Happy learning!