

## Hands-on Lab - Creating an AWS Lambda

Estimated Time: 20 minutes

In this lab, you will become familiar with creating and testing AWS Lambda functions in Node js.

:exclamation: This lab requires use of credit card:exclamation:

#### **Learning Objectives:**

After completing this exercise, you should be able to perform the following tasks:

- Create an AWS Lambda function
- Test the output of an AWS Lambda function

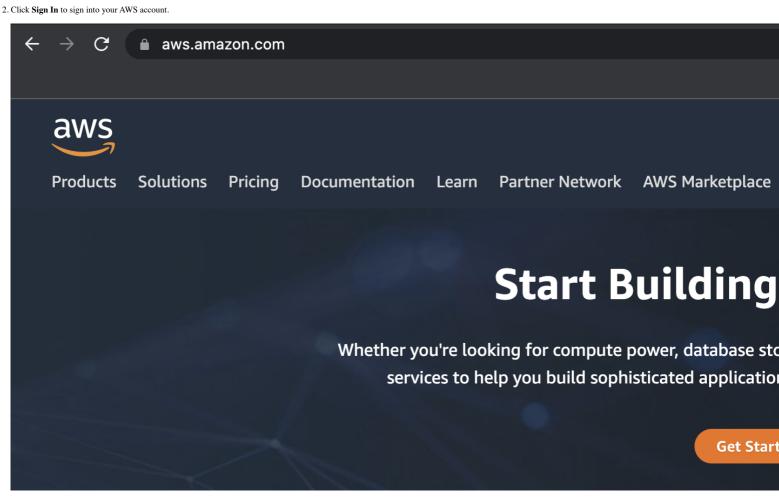
#### **Pre-requisites**

- You must have an AWS account.
- · You should be familiar with Node js.

exclamation: exclamation: Please note that any usage beyond the free tier will be charged to the credit card you used for creating the AWS account. exclamation: exclamation:

### Task 1 - Sign into your AWS account

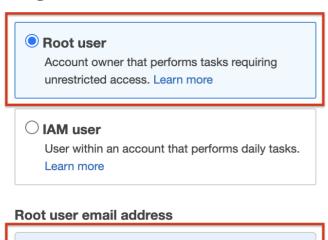
1. If you are already signed into your AWS account, you can skip this task. Go to <a href="https://aws.amazon.com">https://aws.amazon.com</a>.



3. Enter the email address you registered with to sign in as root user.



# Sign in



**Next** 

 $4. \ Enter the password and click the {\bf Sign \ In} \ button. This will take you to the {\bf AWS \ Console \ Home}.$ 



# Root user sign in o

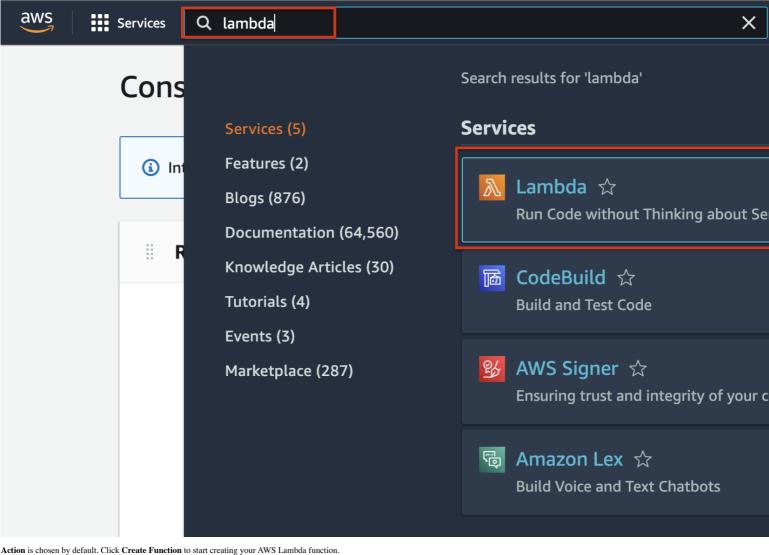
Email:	l.com	
Password	Forgot password?	
Sign in		

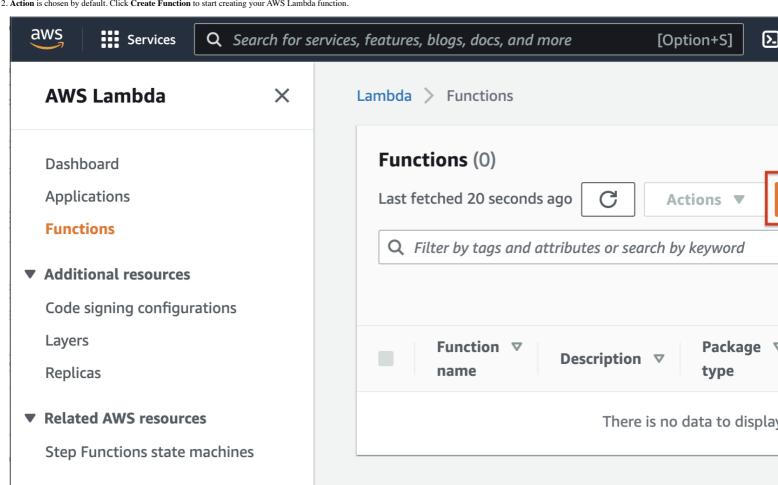
Sign in to a different account

Create a new AWS account

### Task 2 - Create AWS Lambda function

1. When the AWS Console Home loads up, on the top search bar, type Lambda, and you will see that the Lamba service is listed as the first choice. Choose Lambda.

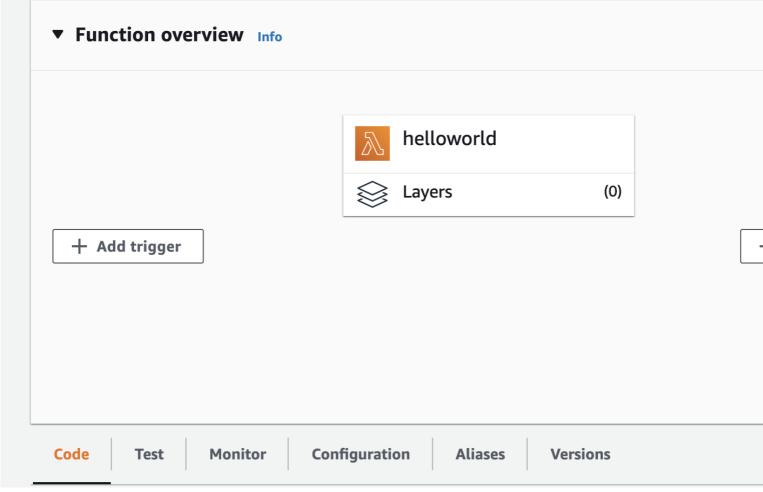




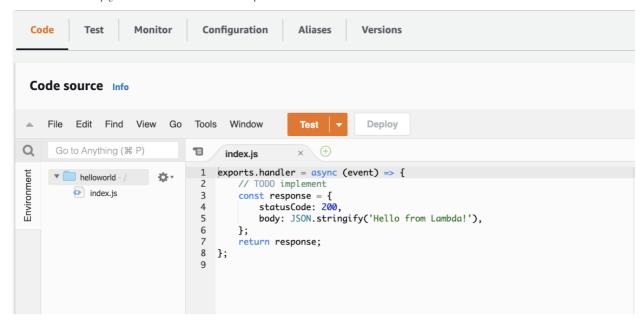
	Use a blueprint	Container image
Author from scratch  Start with a simple Hello World example.	Build a Lambda application from sample code and configuration presets for common use cases.	Select a container image to deploy for your function.
e basic information for your function - name of the function, runtime	e. You will be creating a Node.js function. So the runtime will be <b>Node.j</b> s	<b>16.x</b> . Allow the rest to be default and click the <b>Create Function</b> button
Function name Enter a name that describes the purpose	of your function.	
helloworld		
Jse only letters, numbers, hyphens, or ur	nderscores with no spaces.	
Runtime Info Choose the language to use to write your Node.js 16.x	r function. Note that the console code edito	or supports only Node.js, Python, and Ruby
Architecture Info  Choose the instruction set architecture you  x86_64	ou want for your function code.	
arm64		
ermissions Info	ion role with permissions to upload logs to	Amazon CloudWatch Logs. You can custon
ermissions Info	ion role with permissions to upload logs to	Amazon CloudWatch Logs. You can custon
arm64  Permissions Info  By default, Lambda will create an executi	ion role with permissions to upload logs to	Amazon CloudWatch Logs. You can custon

5. After a few seconds, you will see the function details page once the function is created.

# helloworld



6. Scroll down on the same page to see the default Hello Lambda code prewritten in the Code tab.

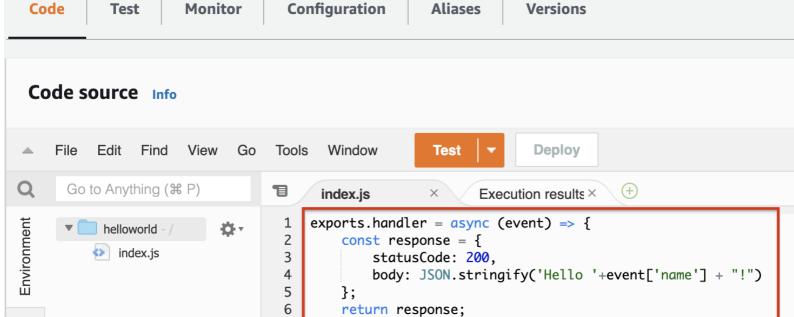


7. Replace the code with the following custom code. This code will take the name parameter from the event and return a personalized Hello. Click Deploy once you add the script.

```
1. 1
2. 2
3. 3
4. 4
5. 5
6. 6
7. 7

1. exports.handler = async (event) => {
2.     const response = {
3.         statusCode: 200,
4.         body: JSON.stringify('Hello '+event['name'] + "!")
5.     };
6.     return response;
7. };

Copied!
```

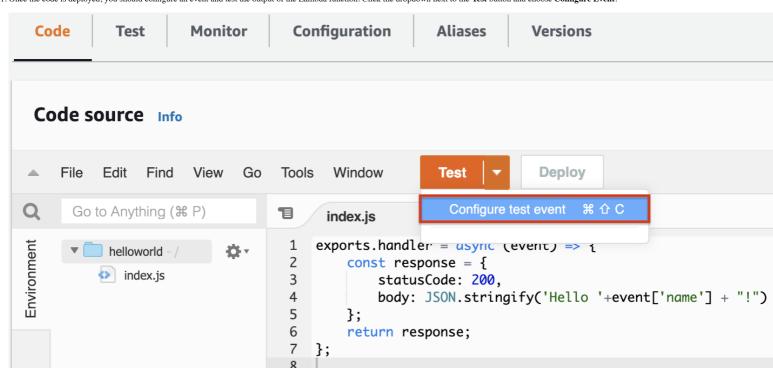


Task 3 - Test the Lambda function

1. Once the code is deployed, you should configure an event and test the output of the Lambda function. Click the dropdown next to the Test button and choose Configure Event.

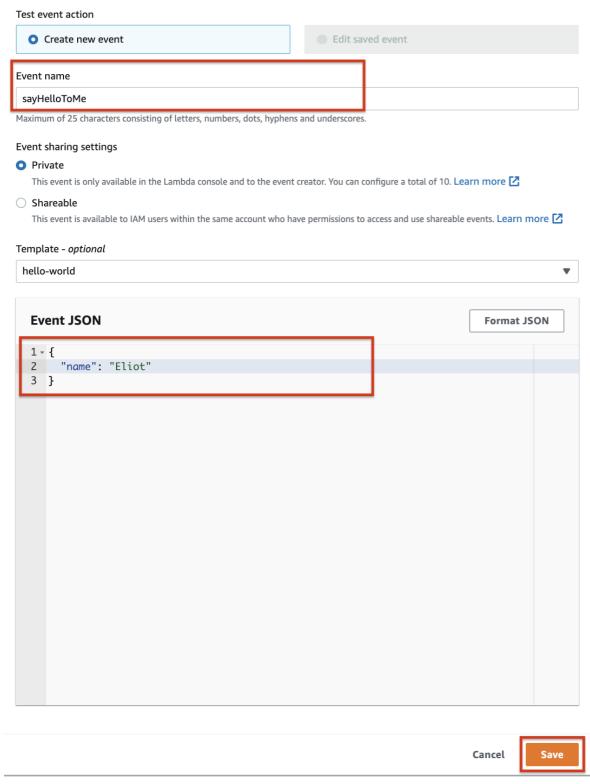
};

7

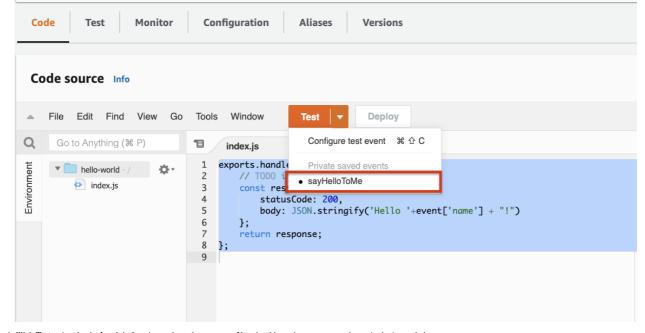


2. Give the event a name and then enter or copy and paste the JSON below to add the parameter you want to pass to the event. This event is triggered when you want to test your Lambda function. Add the Event JSON and click Save.

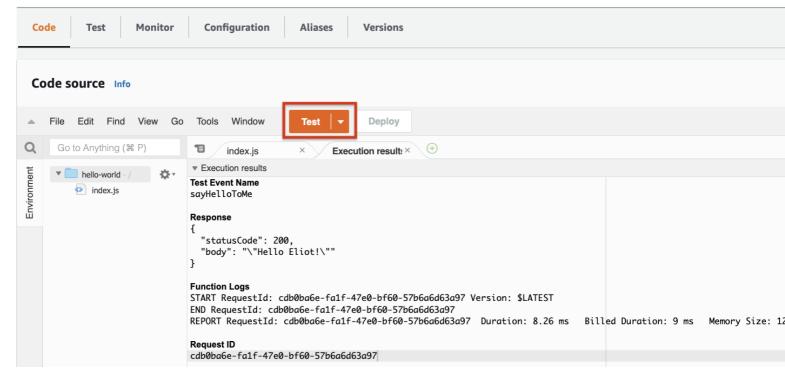
```
1. 1
2. 2
3. 3
1. {
2. "name":"Eliot"
3. }
```



3. Check if the event has been created by clicking the dropdown next to **Test** again.

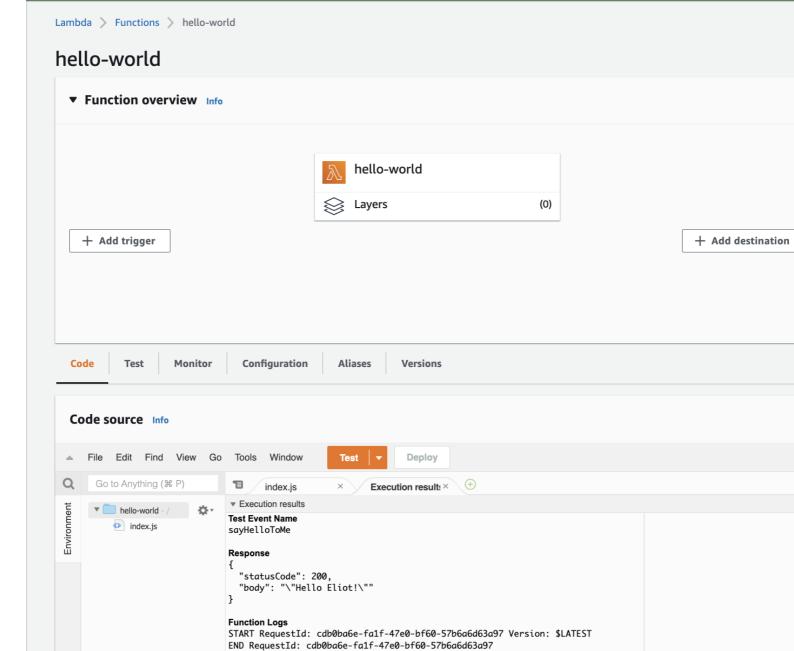


4. Click **Test** to invoke the Lambda function and see the response. You should see the response as shown in the image below.



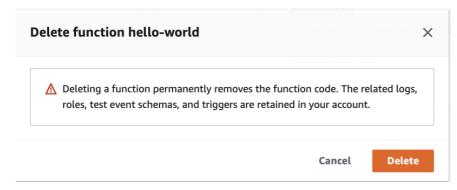
Task 4 - Delete the Lambda function

1. Now that you have created a Lambda function and successfully tested it, you can delete it. On the top right, click the Action menu and choose the delete option.



REPORT RequestId: cdb0ba6e-fa1f-47e0-bf60-57b6a6d63a97 Duration: 8.26 ms Billed Duration: 9 ms Memory Si

2. When it asks for confirmation, you can confirm that you want to delete the action.



Request ID

cdb0ba6e-fa1f-47e0-bf60-57b6a6d63a97

Congratulations! You just created your first AWS Lambda function.

### **Tutorial details**

Author: Lavanaya T S

Contributors: Pallavi Rai

Change Log

 Date
 Version
 Changed by
 Change Description

 2023-01-18 3.0
 Lavanya Rajalingam Updated for minor corrections based on Beta testing

 2022-12-02 2.0
 Steve Hord
 QA pass & edits

 2022-09-14 1.0
 Lavanaya T S
 Initial version created