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.

Important: *This lab requires use of credit card.*

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

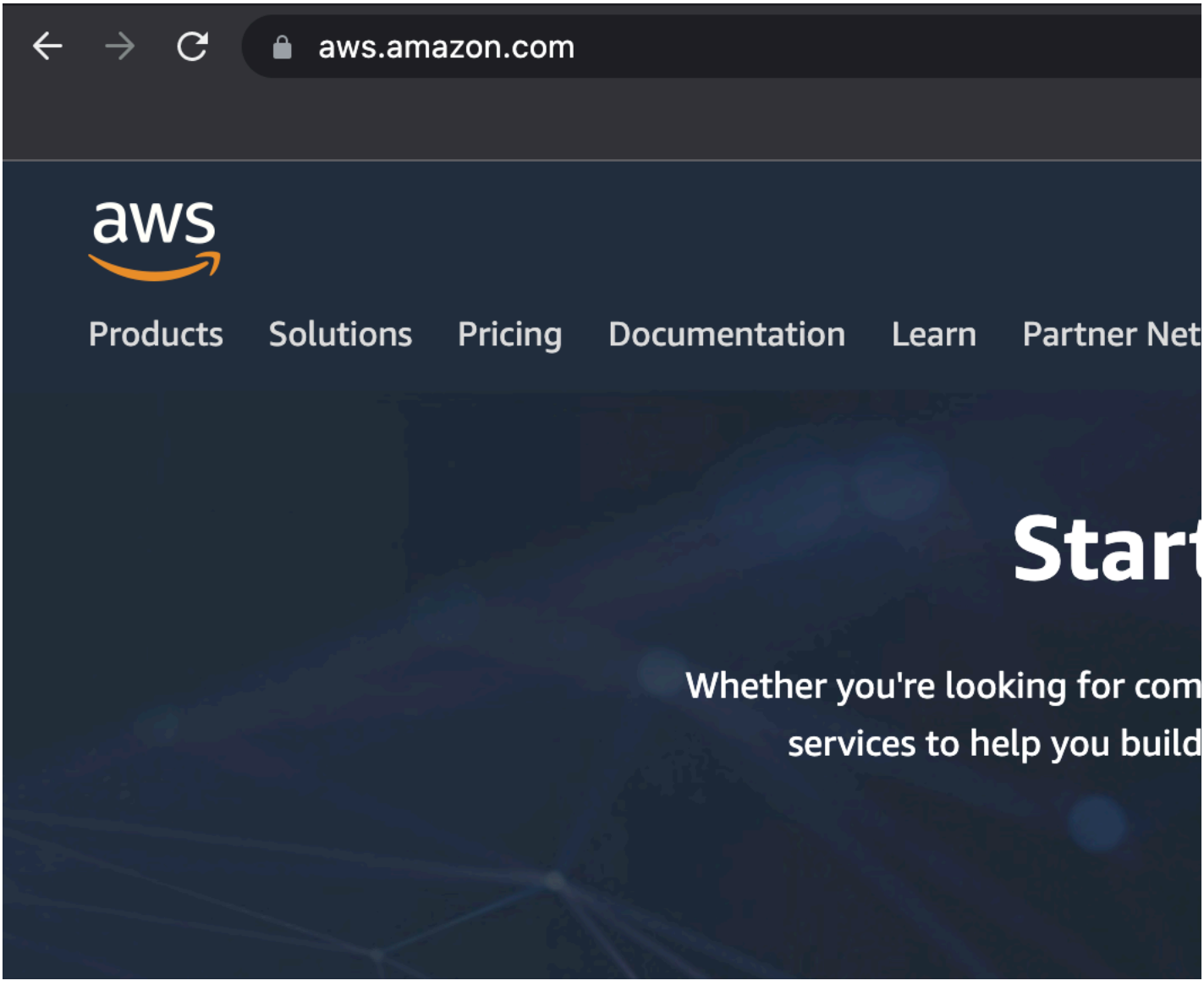
Pre-requisites

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

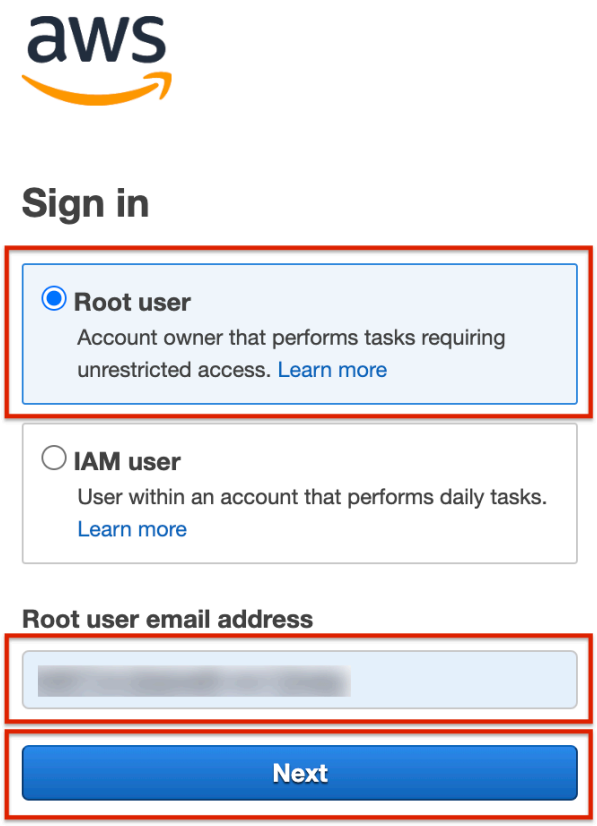
Important: *Please note that any usage beyond the free tier will be charged to the credit card you used for creating the AWS account.*

Task 1 - Sign into your AWS account

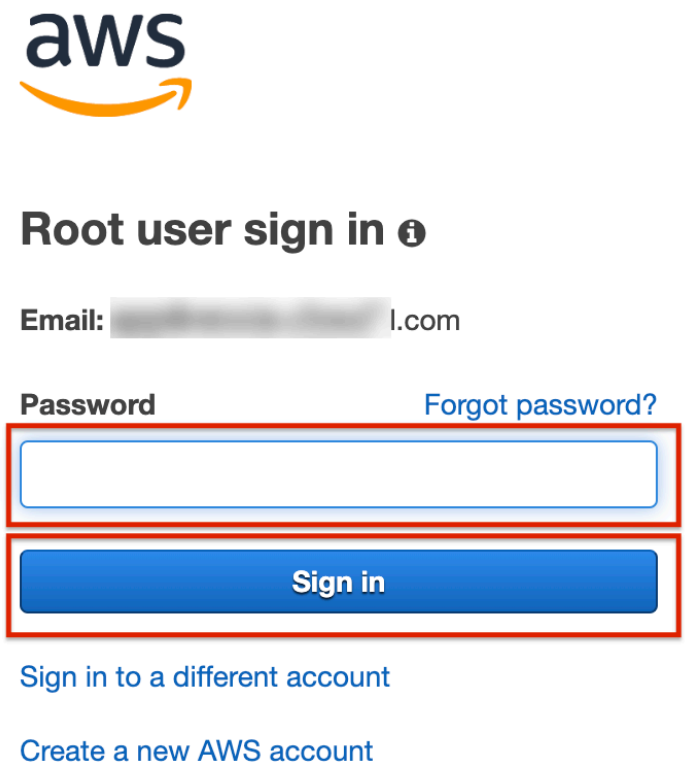
1. If you are already signed into your AWS account, you can skip this task. Go to https://aws.amazon.com.
2. Click **Sign In** to sign into your AWS account.



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

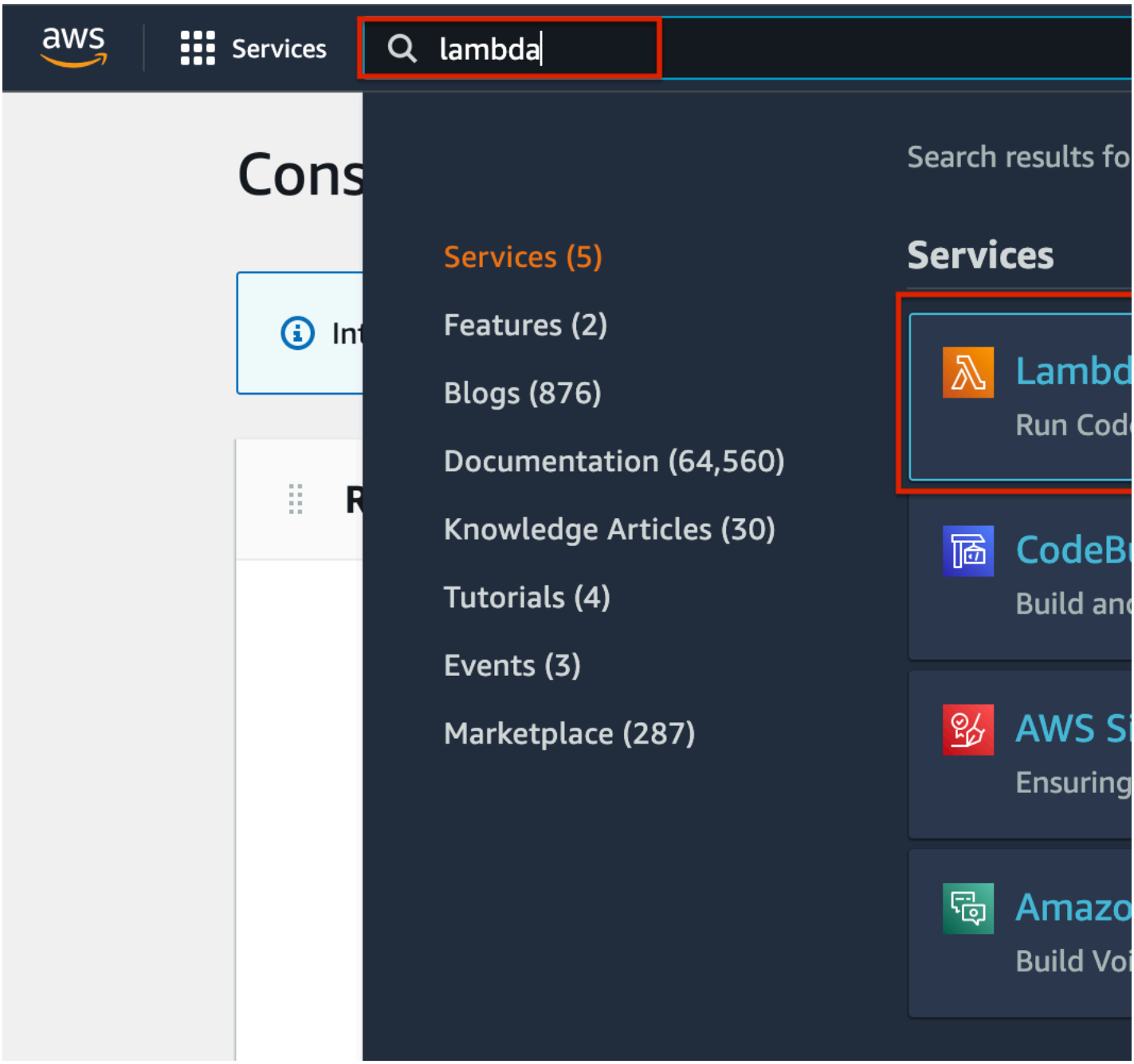


4. Enter the password and click the **Sign In** button. This will take you to the **AWS Console Home**.

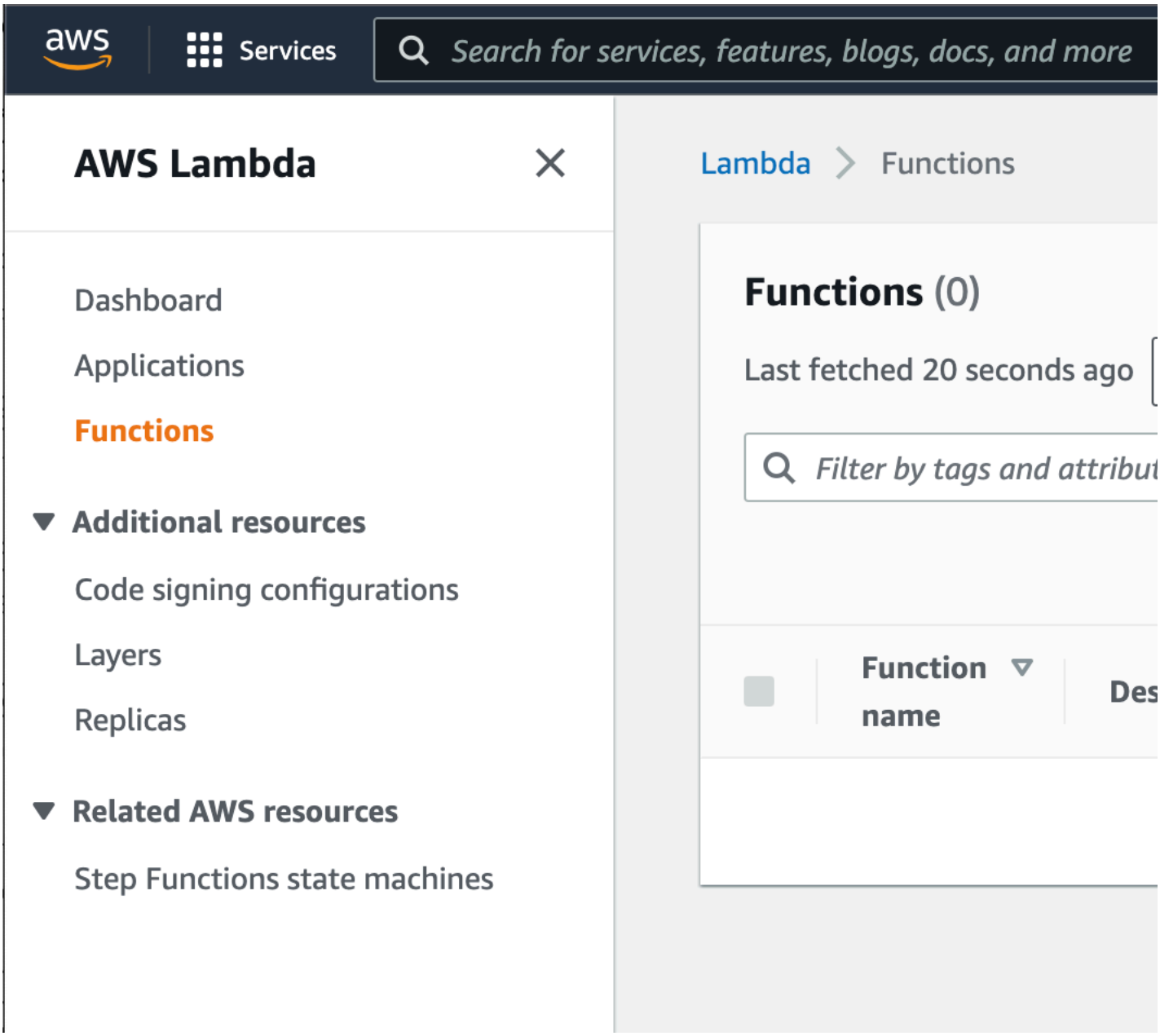


Task 2 - Create AWS Lambda function

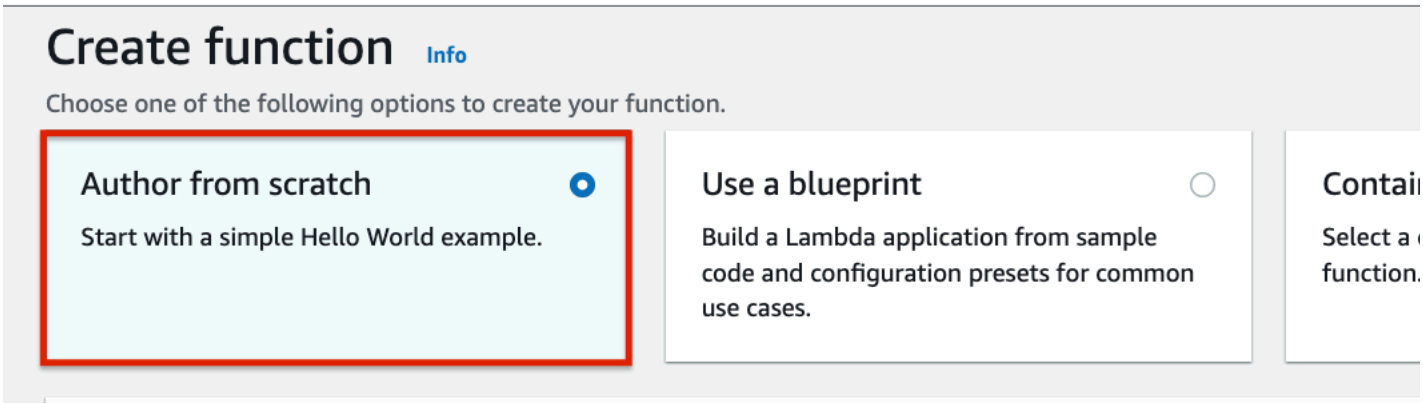
1. When the AWS **Console Home** loads up, on the top search bar, type **Lambda**, and you will see that the Lambda service is listed as the first choice. Choose **Lambda**.



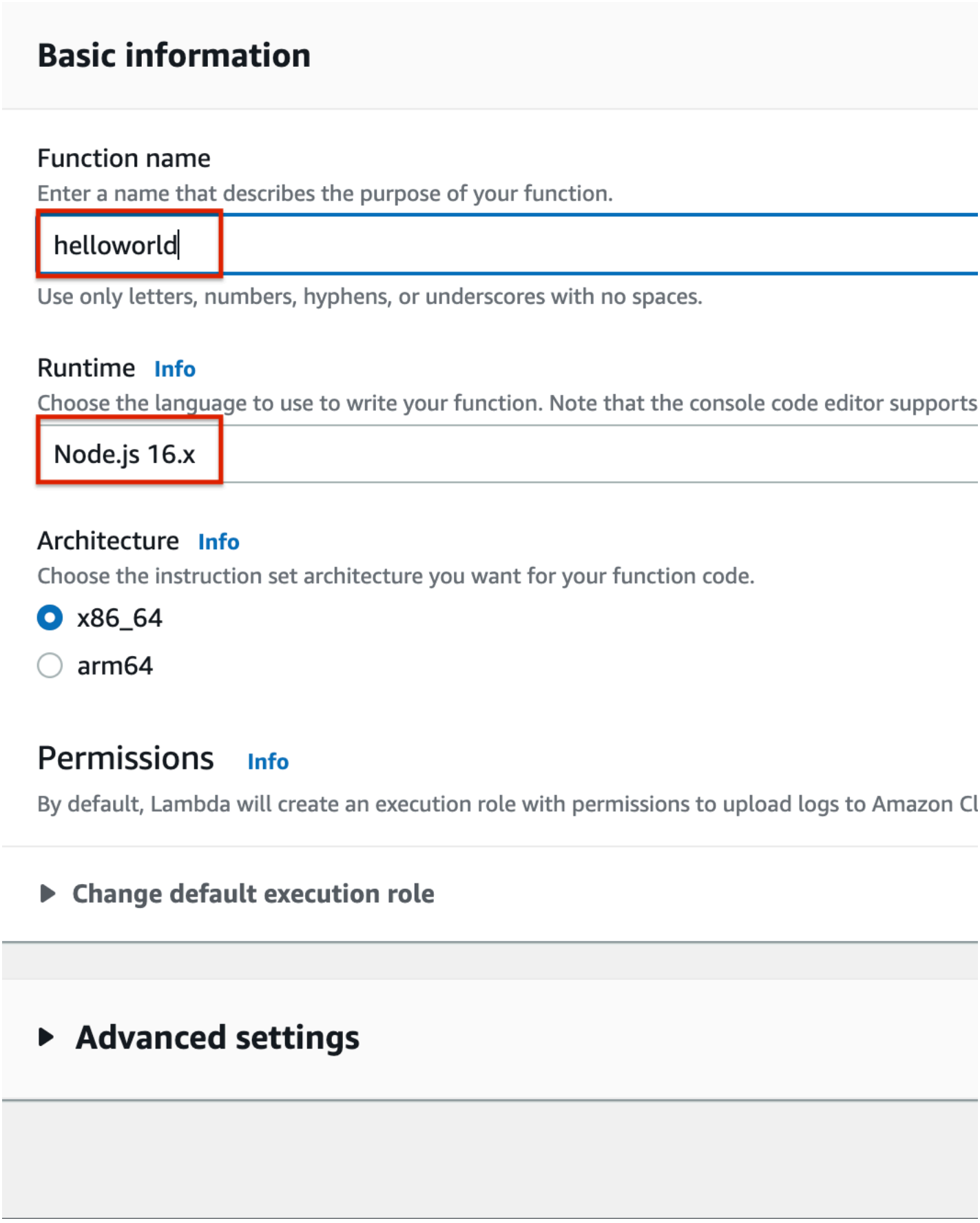
2. **Action** is chosen by default. Click **Create Function** to start creating your AWS Lambda function.



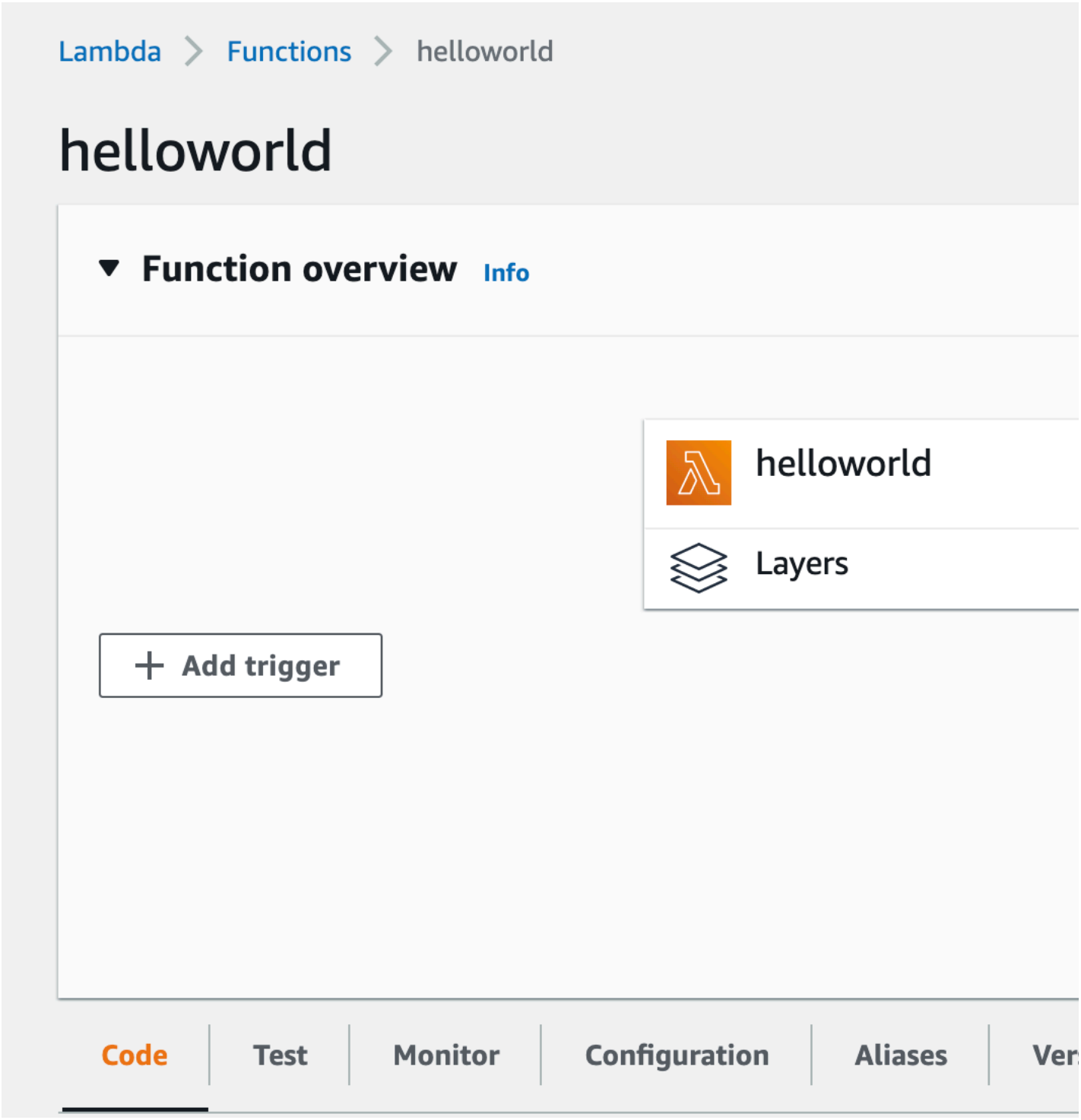
3. You can choose to **Author from Scratch** as you will be adding your own code to it.



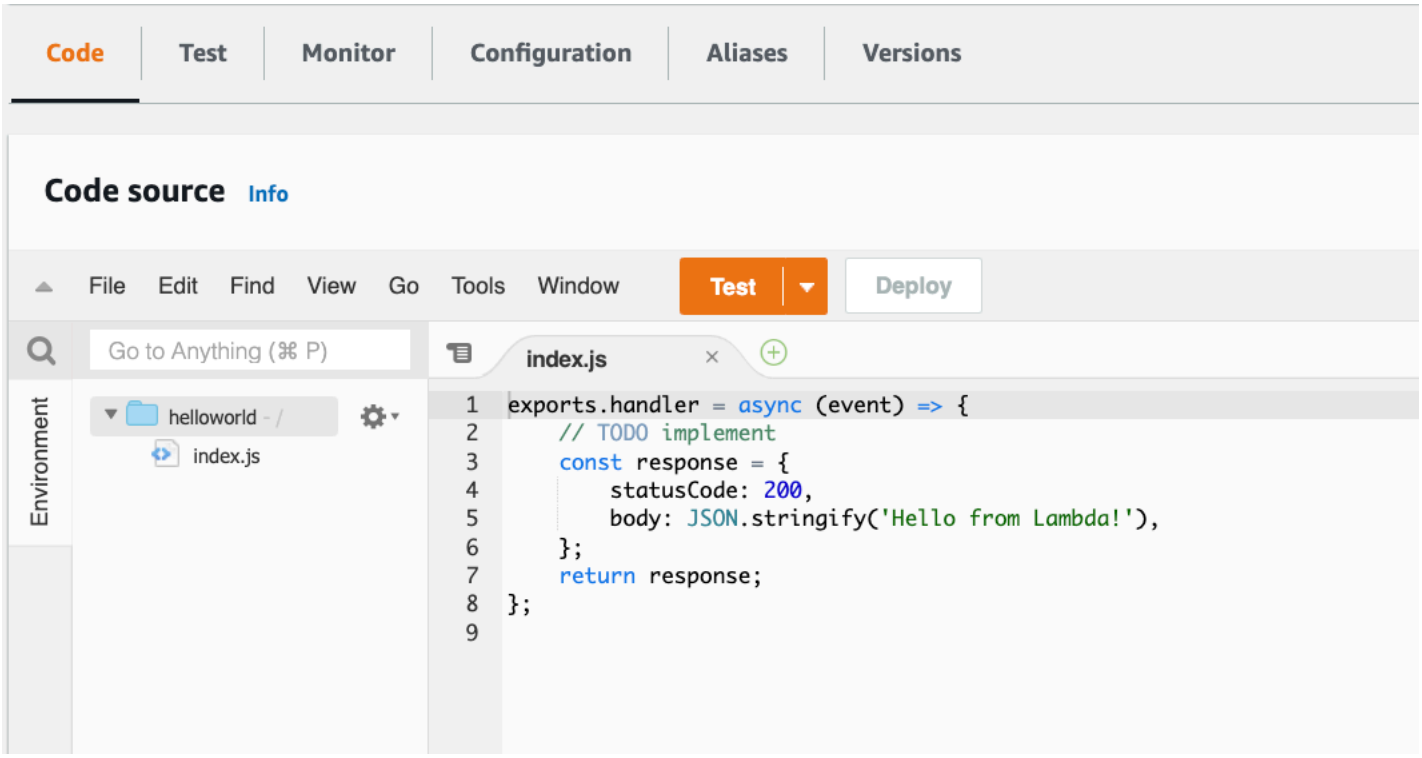
4. Provide basic information for your function - name of the function, runtime. You will be creating a Node.js function. So the runtime will be **Node.js 16.x**. Allow the rest to be default and click the **Create Function** button.



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

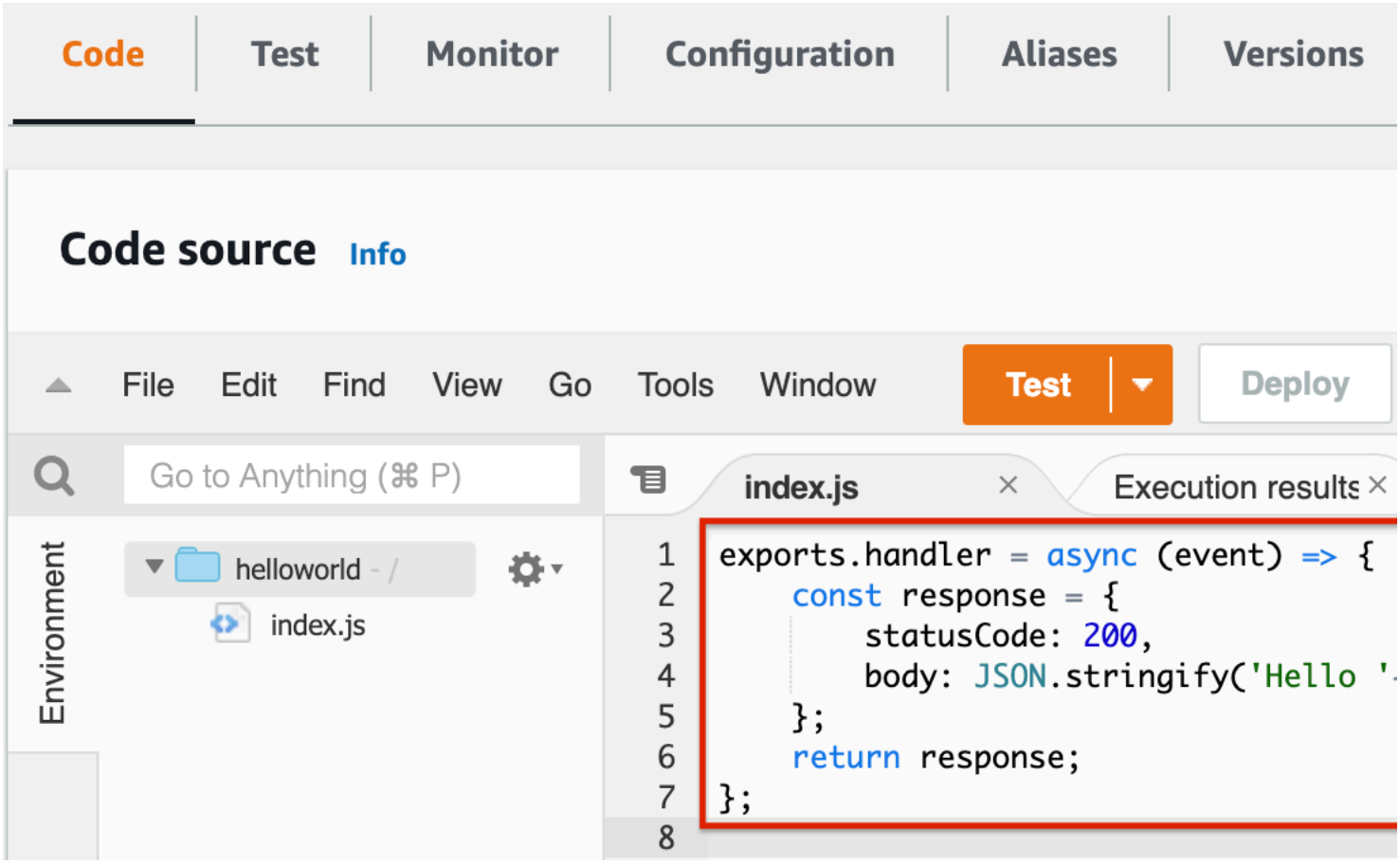


6. Scroll down on the same page to see the default **Hello Lambda** code prewritten in the **Code** tab.



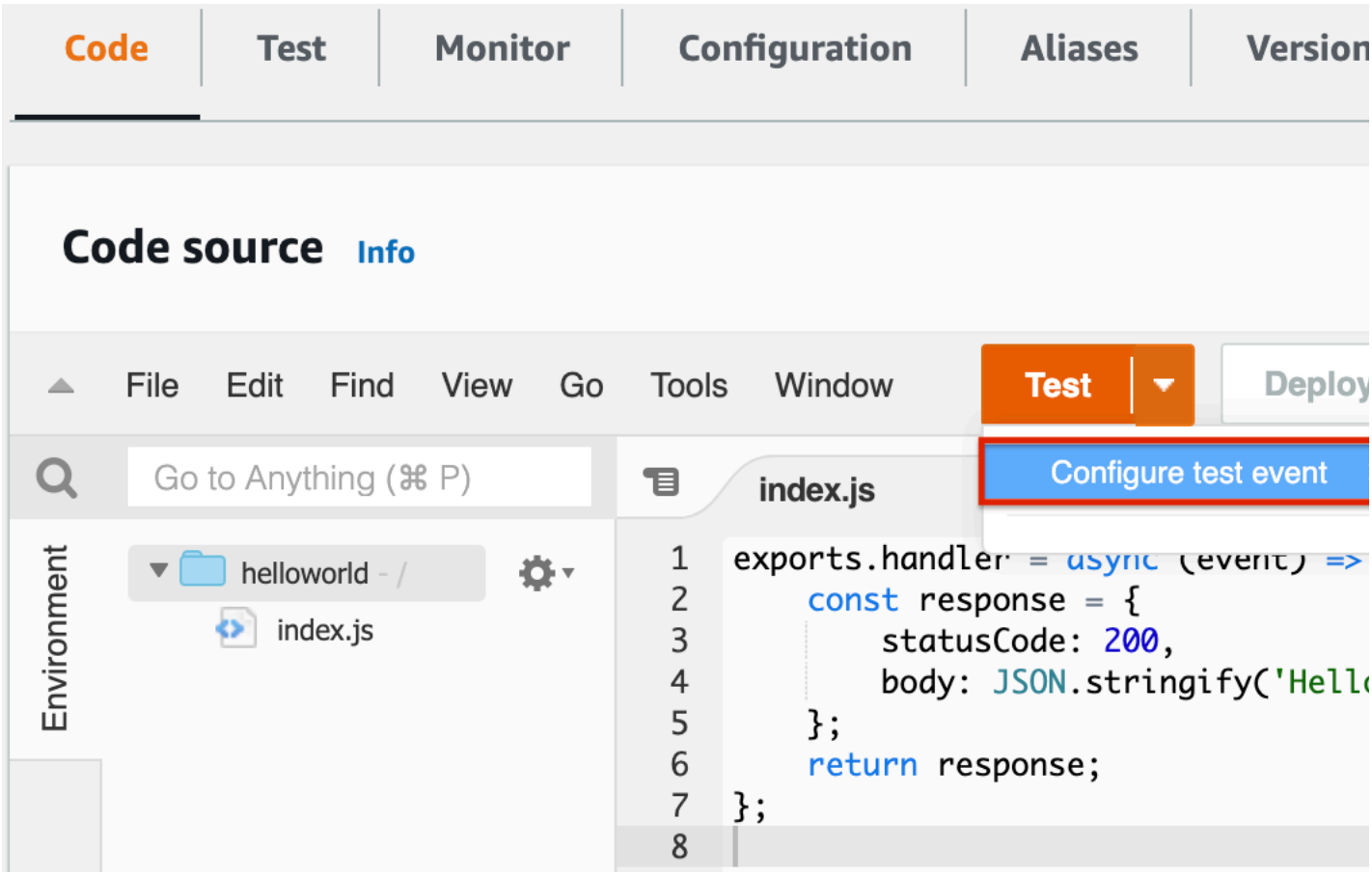
7. Replace the code with the following custom code. This code will take the **name** parameter from the event and return a personalized **Hello**. Click **Deploy** once you add the script.

```
exports.handler = async (event) => {
    const response = {
        statusCode: 200,
        body: JSON.stringify('Hello '+event['name'] + "!")
    };
    return response;
};
```



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 drop-down next to the **Test** button and choose **Configure test event**.



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**.

```
{
  "name":"Eliot"
}
```

Test event action

Create new event

Edit saved event

Event name

sayHelloToMe

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*

hello-world

Event JSON

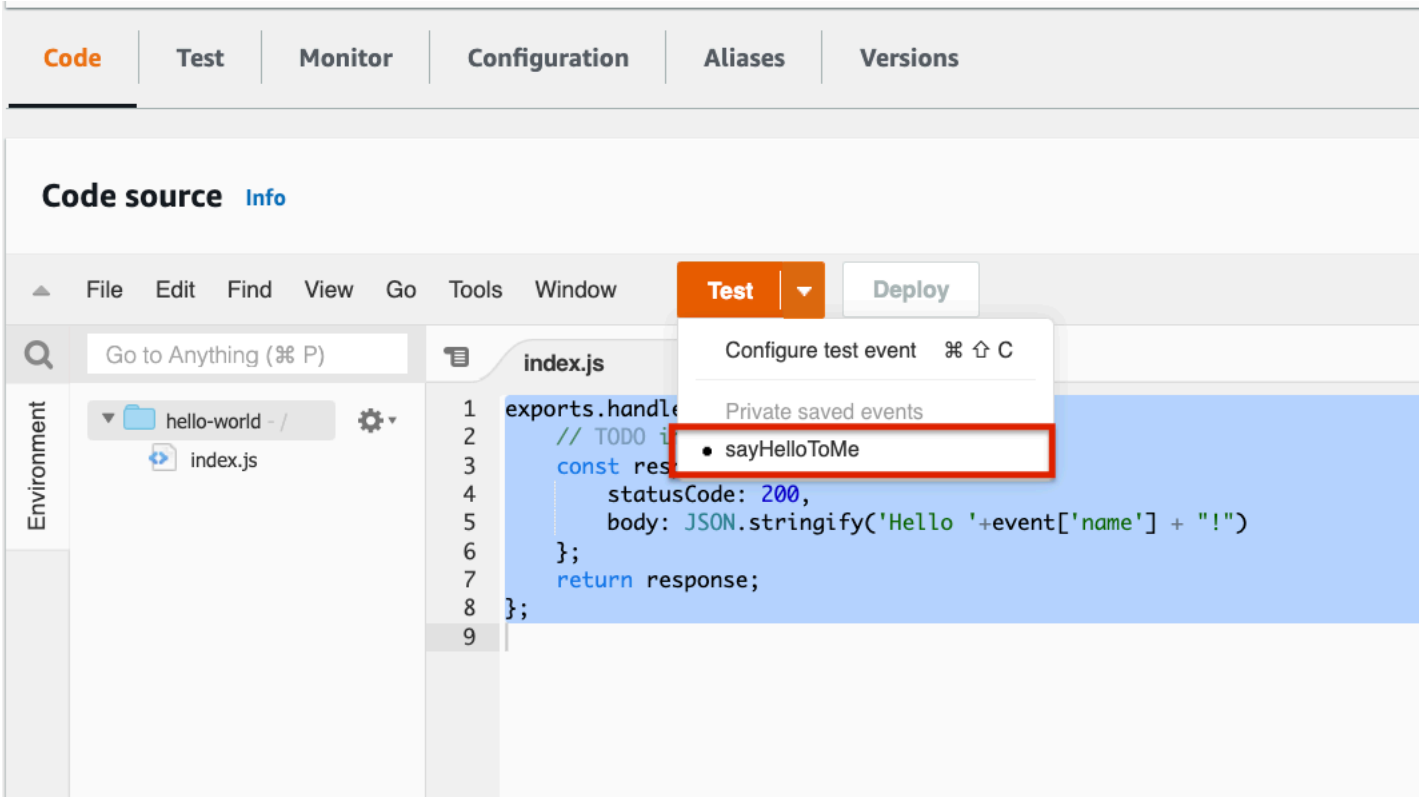
Format JSON

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

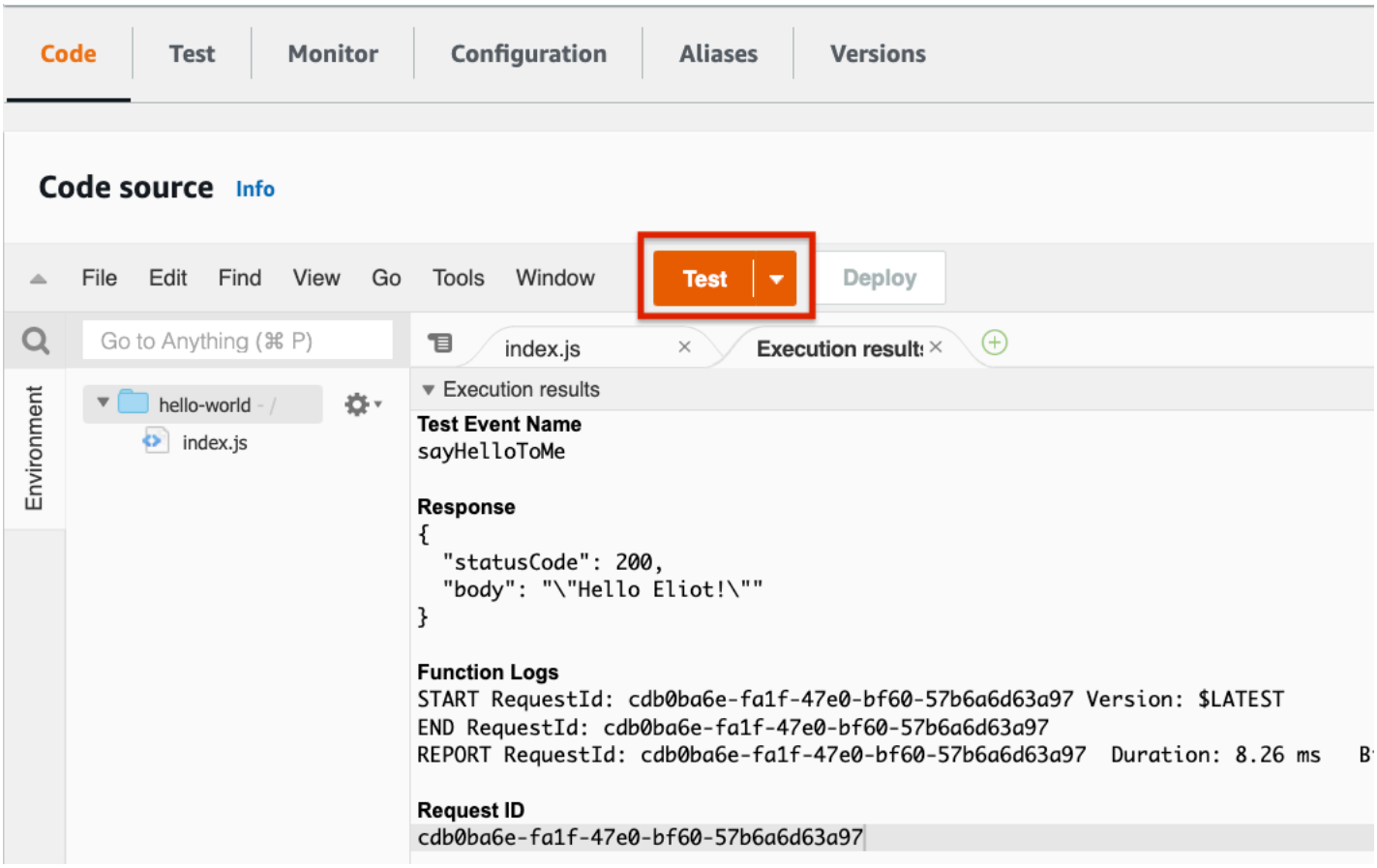
Cancel

Save

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

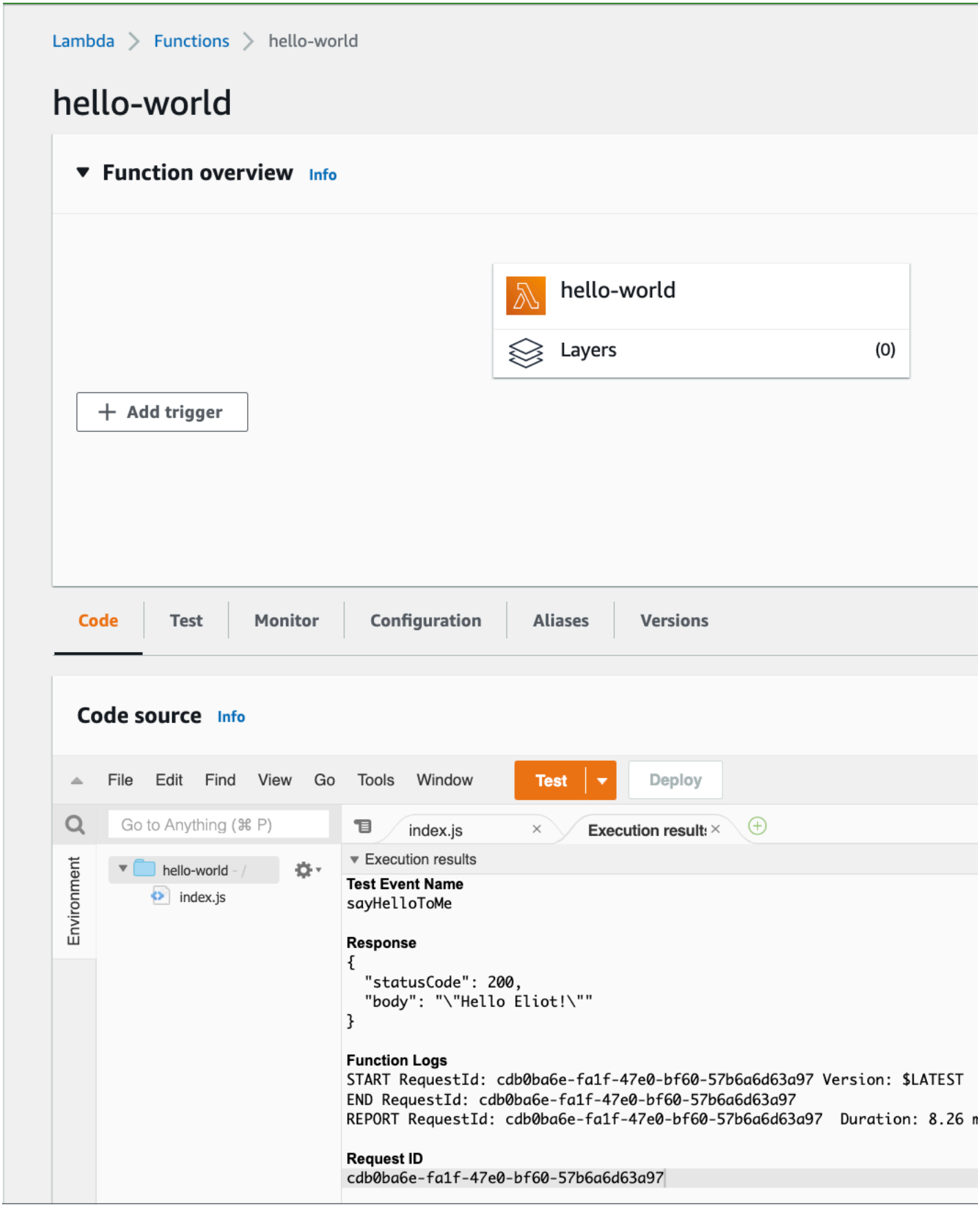


4. Click **Test** to invoke the Lambda function and see the response. You should see the response as shown in the image below.

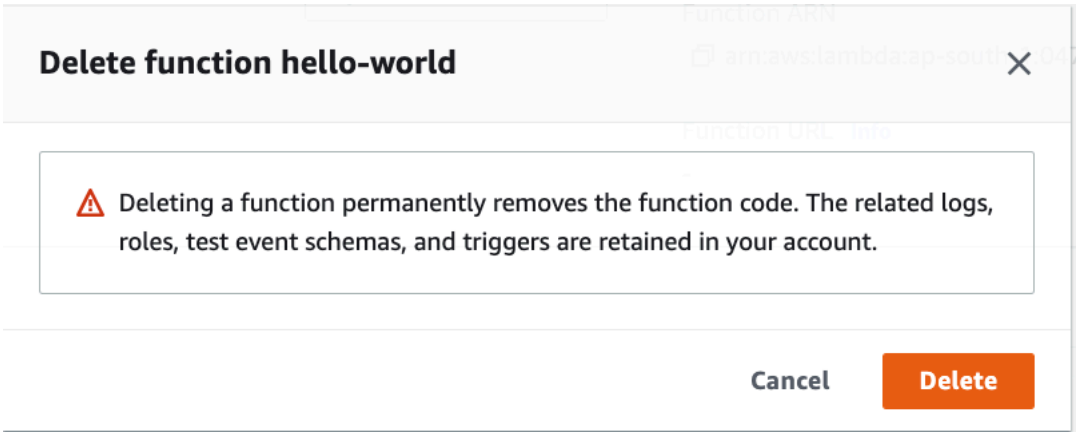


Task 4 - Delete the Lambda function

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.



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



Congratulations! You just created your first AWS Lambda function.

Tutorial details

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