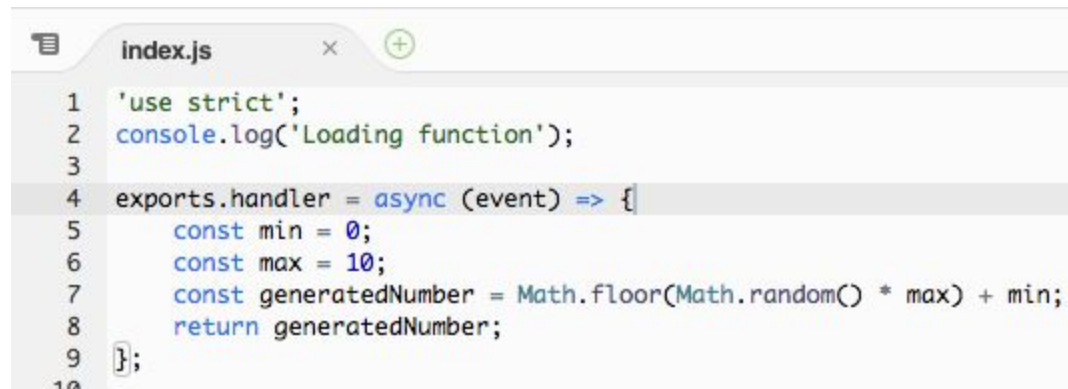


AWS Lambda Walk-Thru

Creating a random number generator in AWS Lambda using NodeJS

1. Log into AWS account as an administrator (important for granting permissions)
2. Click to Lambda Service Section
3. Click "Create Function"
4. Choose Select AUTHOR FROM SCRATCH
5. Enter "world" in search and choose the "hello-world" node.js blueprint
6. Click CONFIGURE
7. Enter name "random-number-generator"
8. Leave Runtime as NodeJS
9. Choose CHOOSE EXISTING ROLE from Role
10. Select SERVICE ROLE/LAMBDA BASIC EXECUTION from Existing Role
11. Click CREATE FUNCTION
12. Scroll to inline code editor and enter the following code



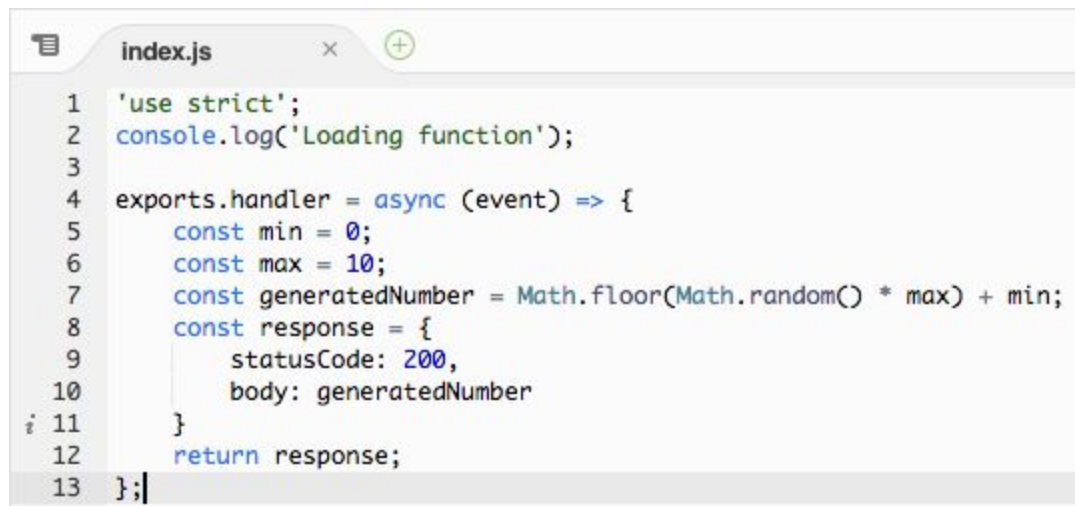
```
index.js
1 'use strict';
2 console.log('Loading function');
3
4 exports.handler = async (event) => {
5     const min = 0;
6     const max = 10;
7     const generatedNumber = Math.floor(Math.random() * max) + min;
8     return generatedNumber;
9 };
```

- a. 13. Make sure Handler is set to 'index.handler'
 - a. 'index' refers to the filename, 'index.js'
 - b. 'Handler' refers to the function 'handler' in the index.js file
14. Basic setting
 - a. Memory - reserves the amount of memory need for the function - leave at 128mb
 - b. Timeout - amount of time the platform will allow before it errors out the function.
15. Click SAVE
16. Click TEST
 - a. Enter a test name, "test1"
 - b. Click save
17. Click TEST to view a test of the function

Add API Gateway (Trigger)

1. In Designer block click API GATEWAY
2. In Configure Triggers block click CREATE A NEW API in API dropdown
3. Set Security to OPEN (Allows us to access the api from our browser easily)
4. Click Additional Settings

- a. API name should be filled out with function name
 - b. Leave Deployment Stage on default
5. Click ADD
6. Click SAVE at top of Lambda page
 - a. API Gateway block will display api details including
 - i. Url/endpoint
 - ii. name
 - iii. Other details
7. Click Lambda icon at top of page
8. Change code to:

A screenshot of a code editor window titled 'index.js'. The code is as follows:

```
1 'use strict';
2 console.log('Loading function');
3
4 exports.handler = async (event) => {
5     const min = 0;
6     const max = 10;
7     const generatedNumber = Math.floor(Math.random() * max) + min;
8     const response = {
9         statusCode: 200,
10        body: generatedNumber
11    }
12    return response;
13 };
```

- a.
 - b. This will return a properly formatted response for a browser.
9. Click SAVE at top of page again.
10. Click API Gateway icon at top of page
11. Click url in API Gateway section to test