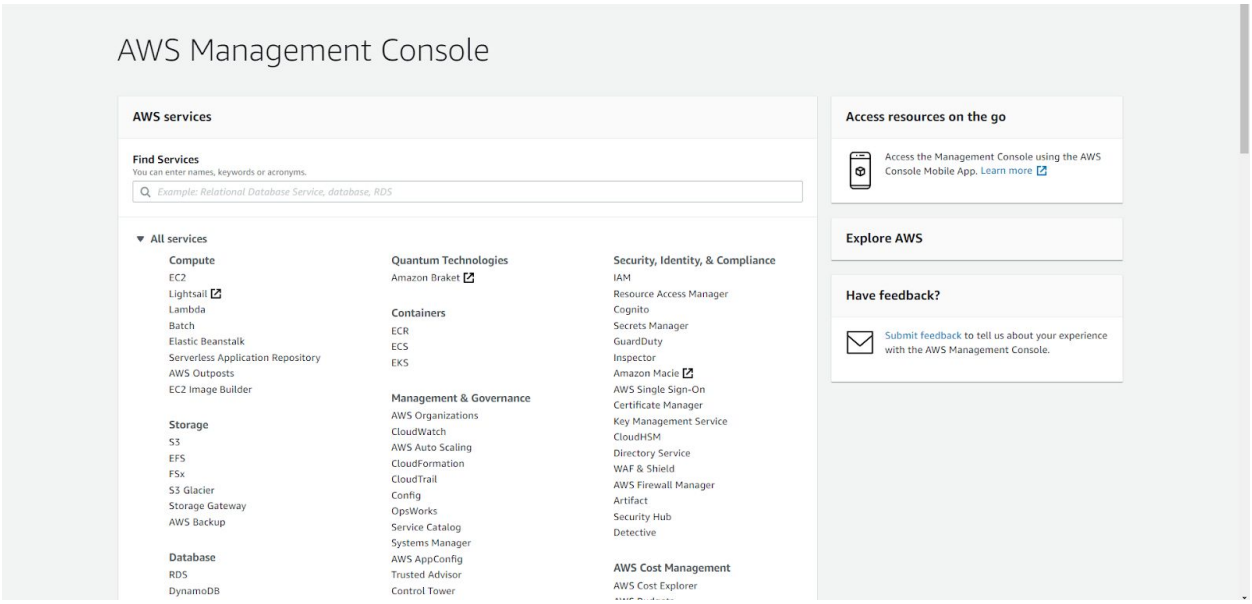
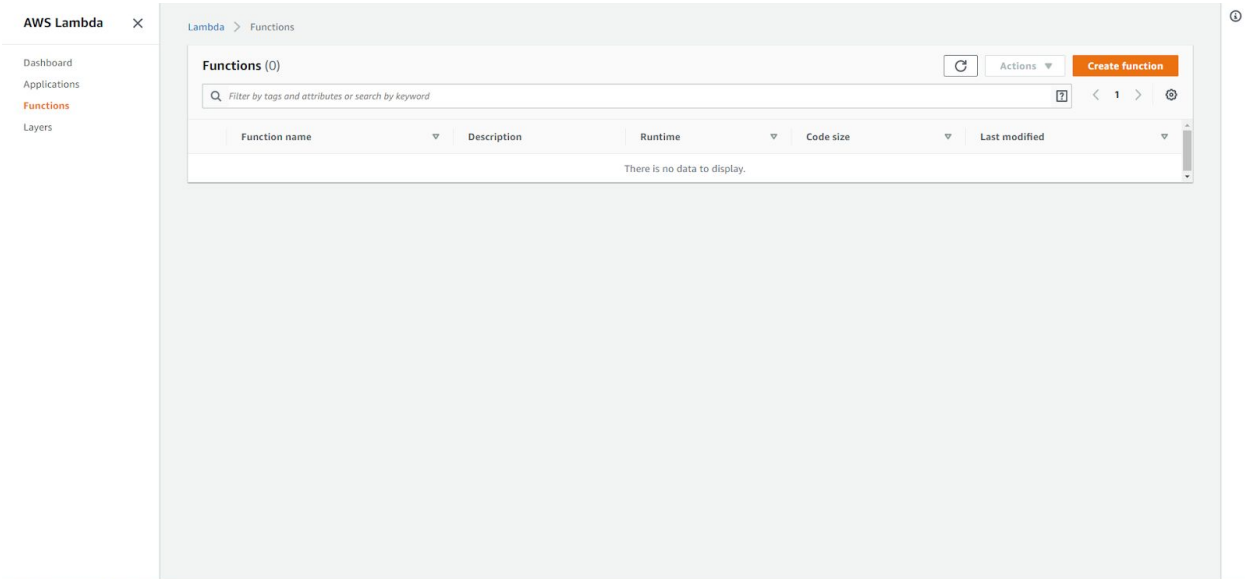
Module 6 Lab 1: Hello World API Gateway Trigger

AWS Management Console



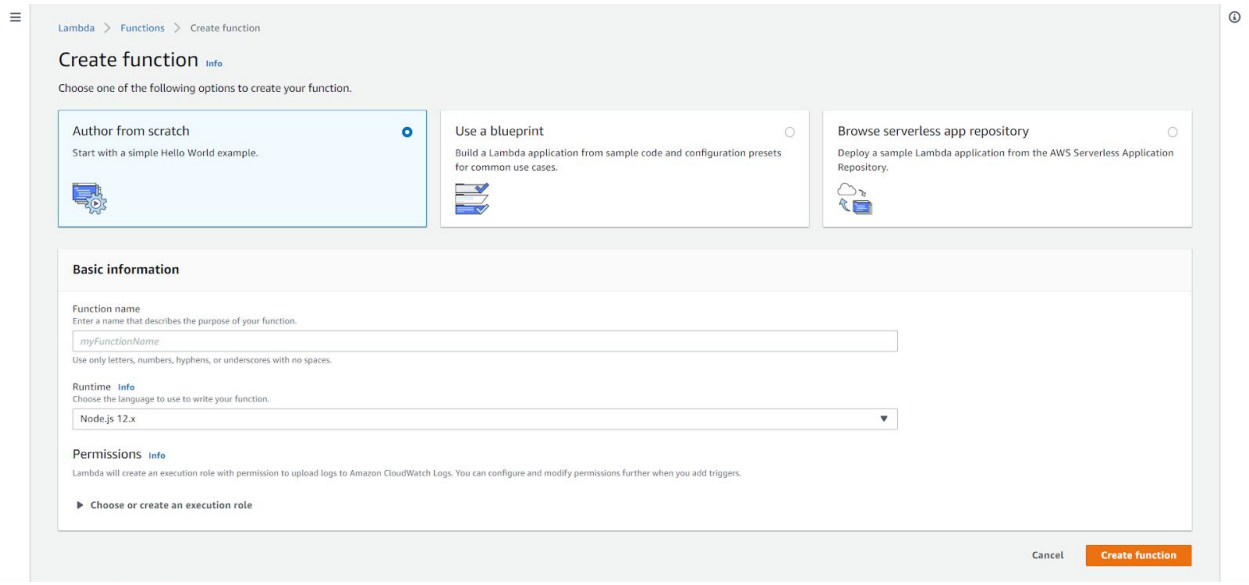
Selling Northern California for this lab.

AWS Lambda



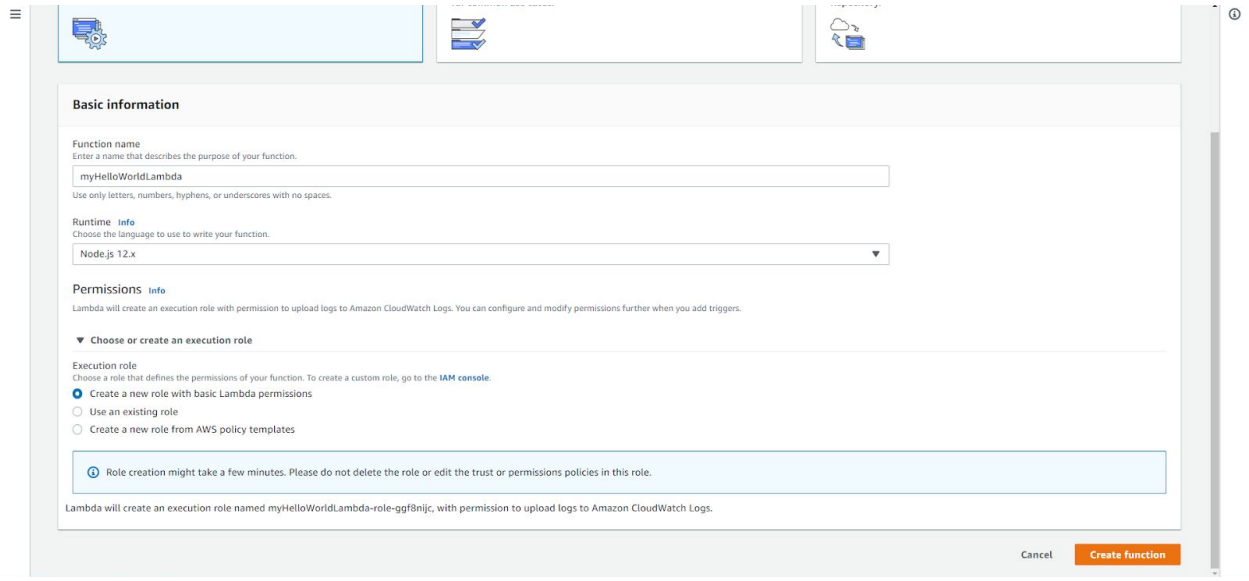
Creating a new Function from scratch.

Create a Function



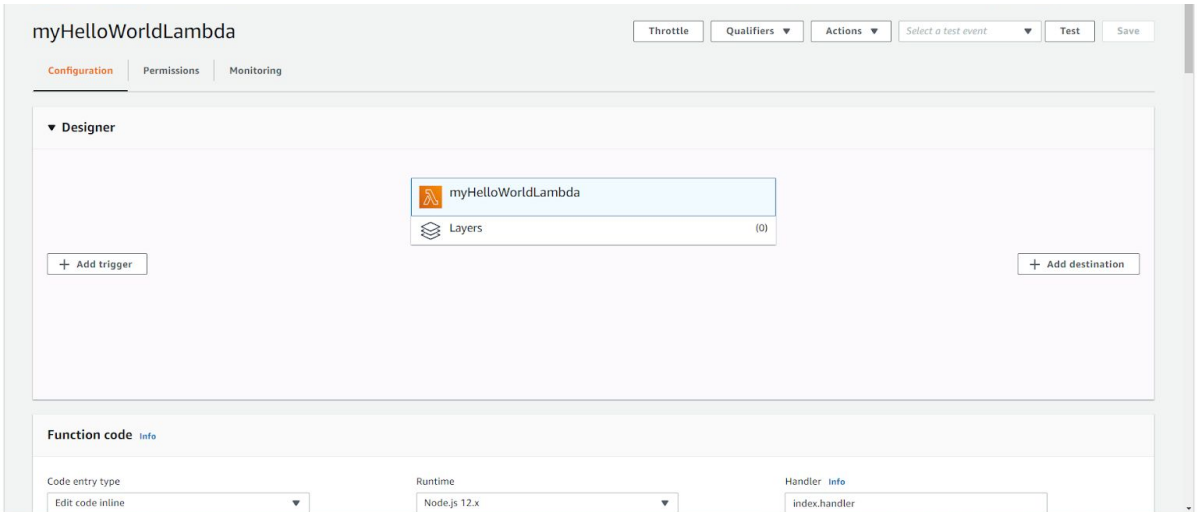
Various ways to start a function.

Basic Information



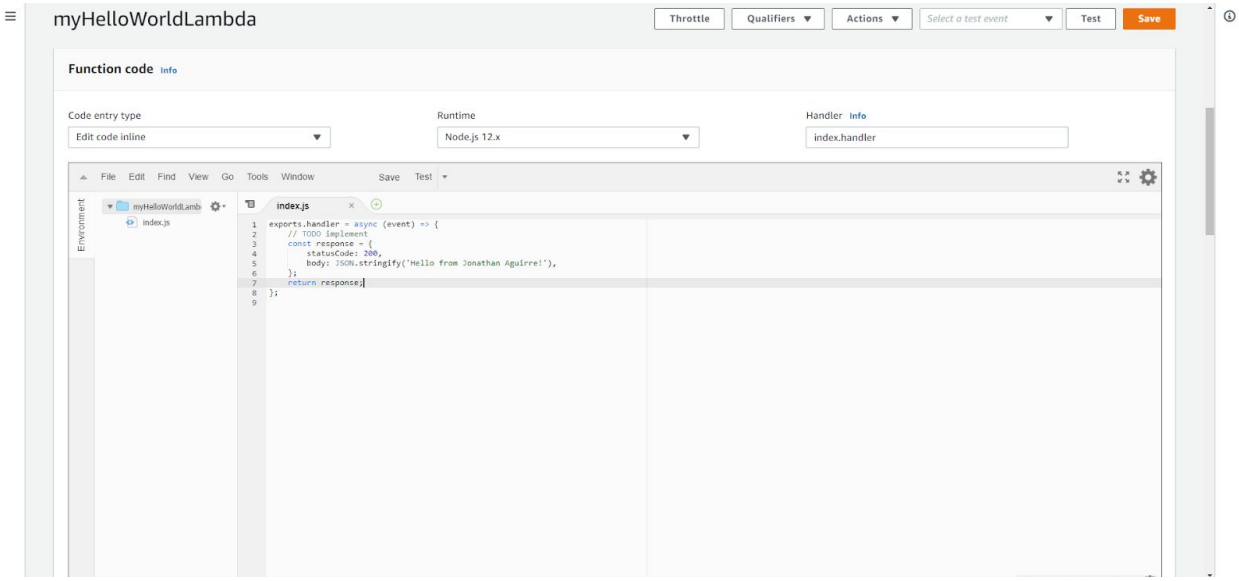
The basic information for this lambda such as name, runtime and role permissions.

myHelloWorldLambda



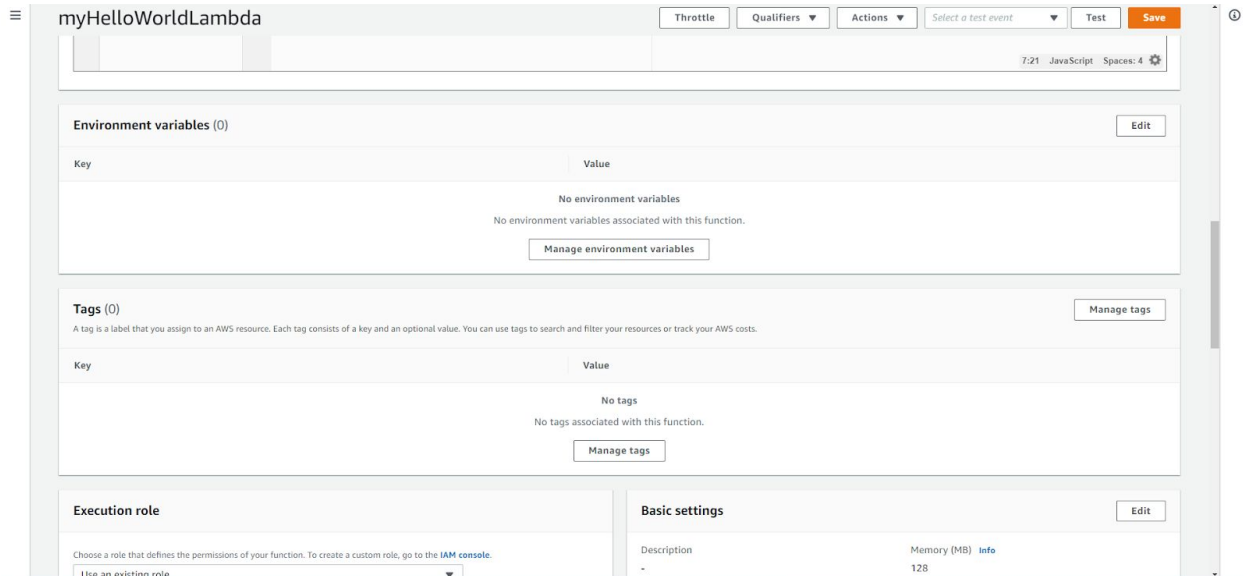
myHelloWorldLamdba created.

Function Code



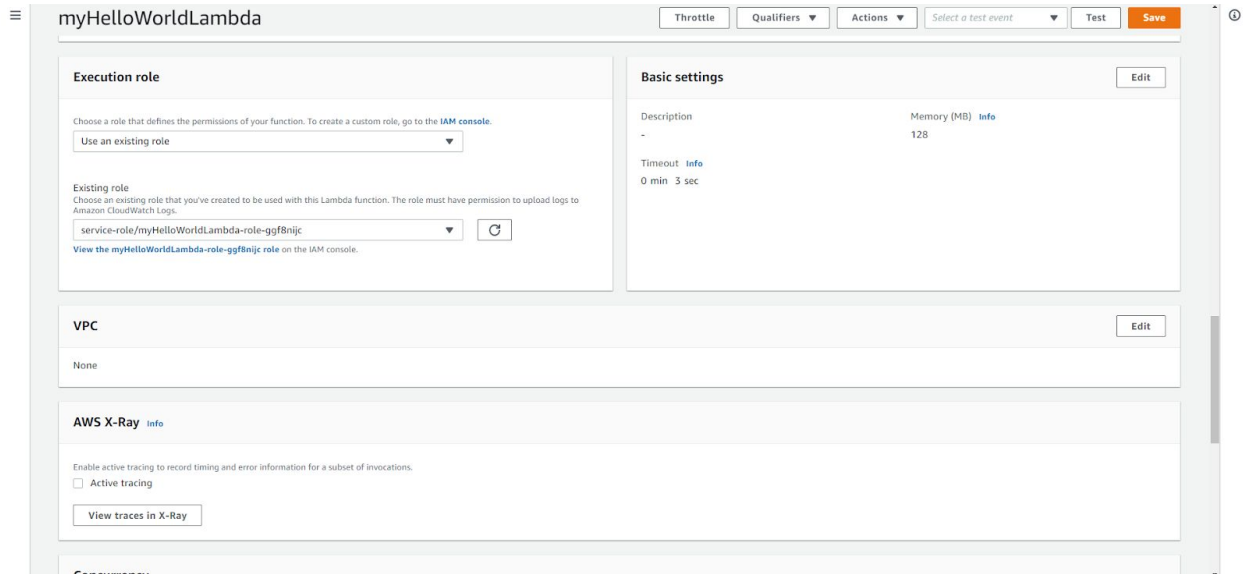
Entry change where a string will return “Hello from Jonathan Aguirre!”.

myHelloWorldLambda



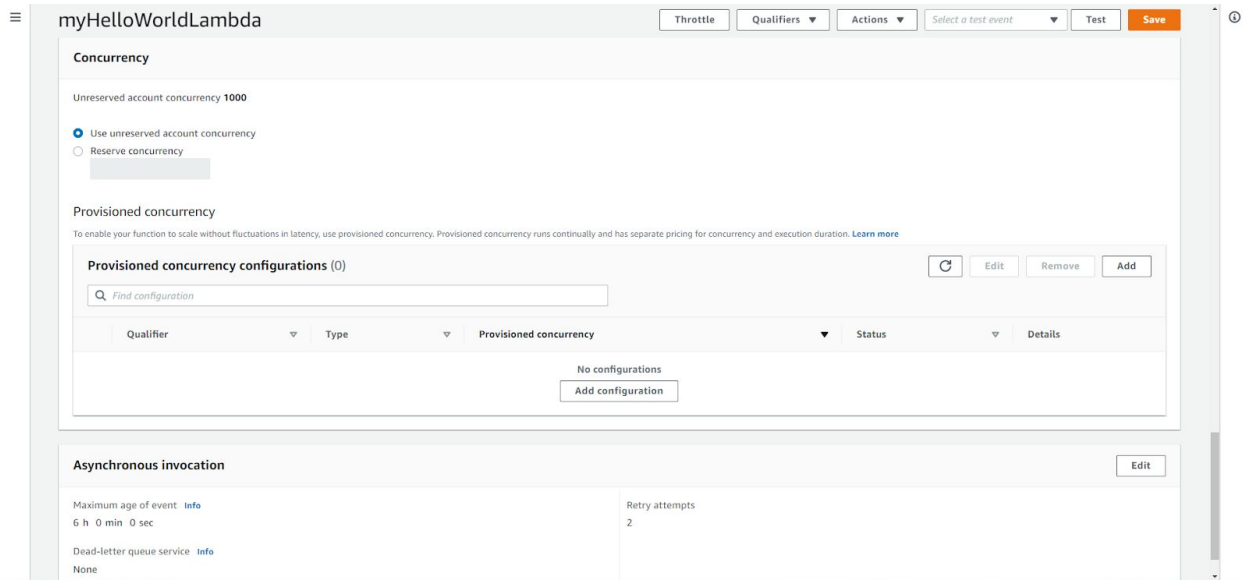
Environment variables and tags can be set here.

myHelloWorldLambda



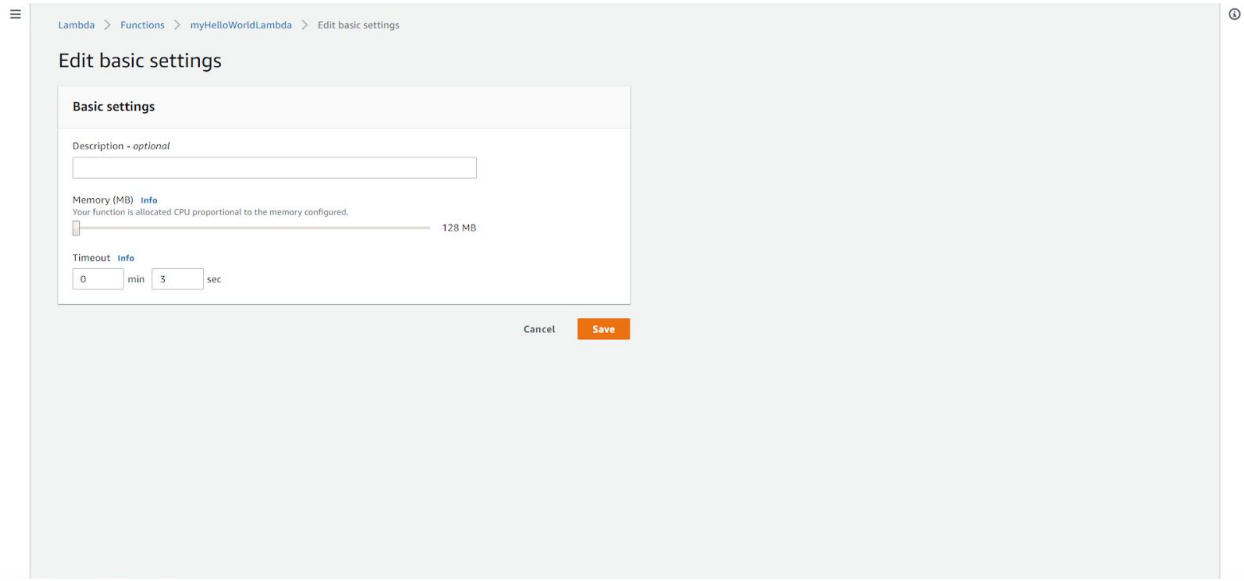
Execution role includes a newly made service role made for this function.

myHelloWorldLambda



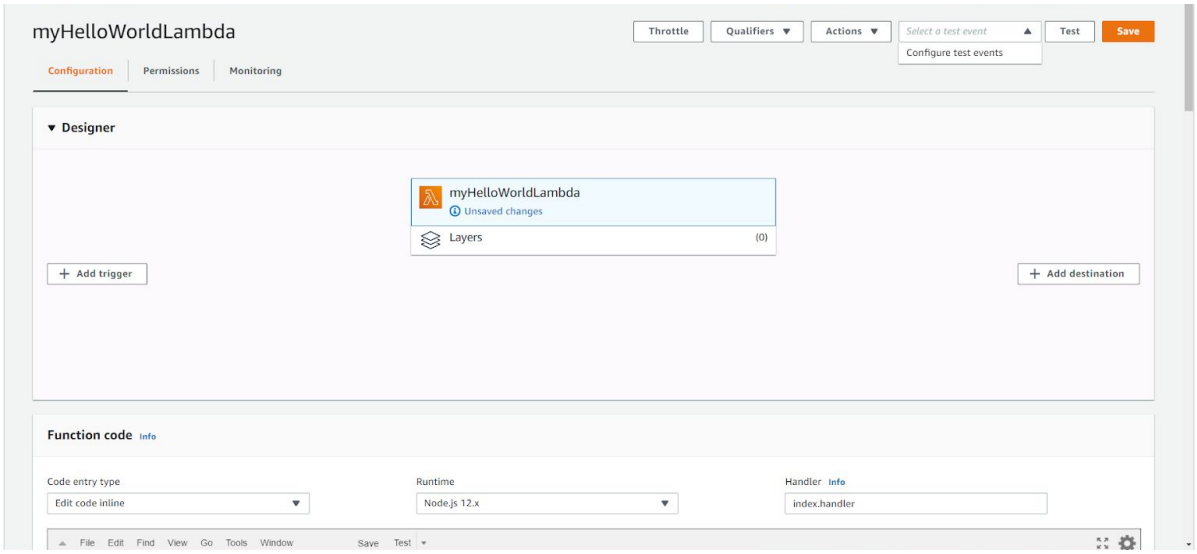
The rest of the settings. All have been left at default so far.

Basic settings



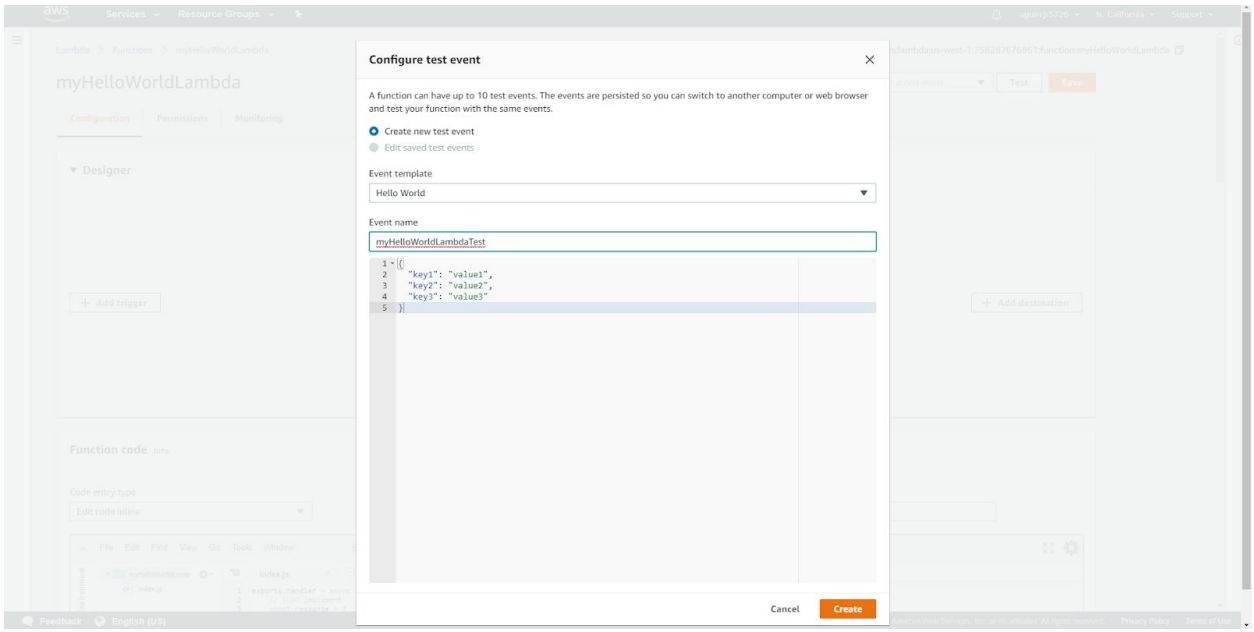
Increasing memory will also increase CPU usage.

myHelloWorldLambda



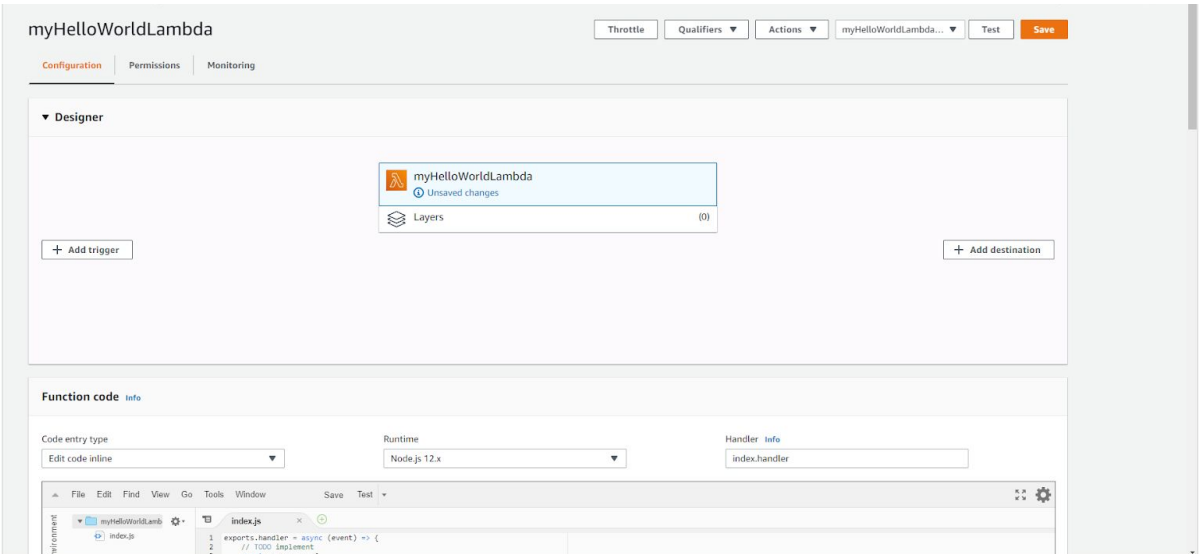
Scrolling back to the top an choosing “Select a test event”.

Configure test event



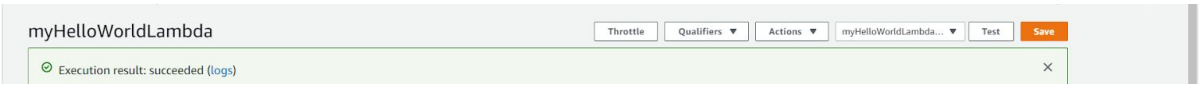
Creating a test event, nothing will be sent.

myHelloWorldLambda



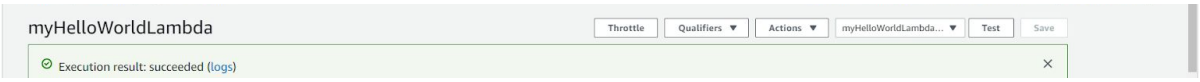
Selecting “Test” to test the event we just created.

Execution result: succeeded



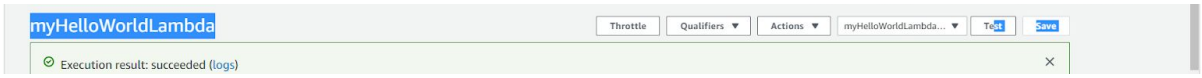
Note that the result returned does not show greetings with Jonathan Aguirre. This is because I didn’t save the function, top right hand corner.

myHelloWorldLambda



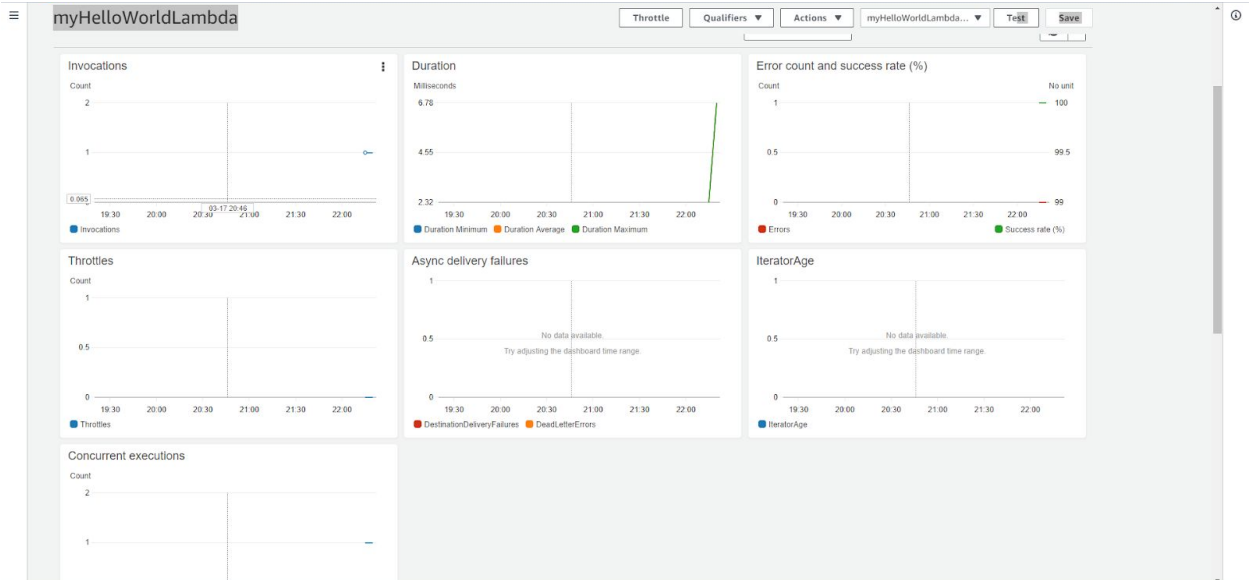
Successfully saved but the test did not rerun.

myHelloWorldLambda



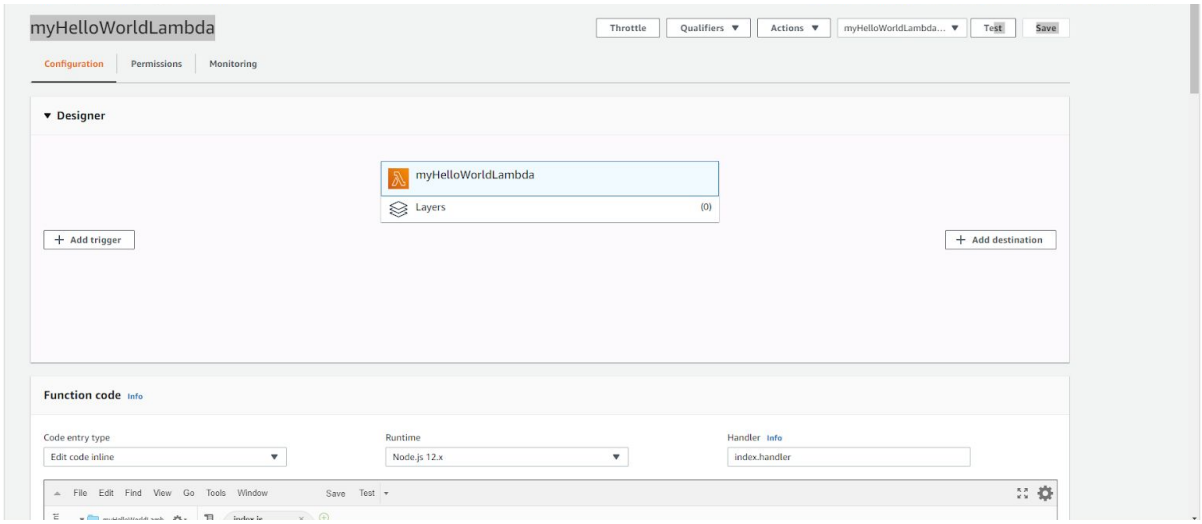
The results now match.

CloudWatch metrics information



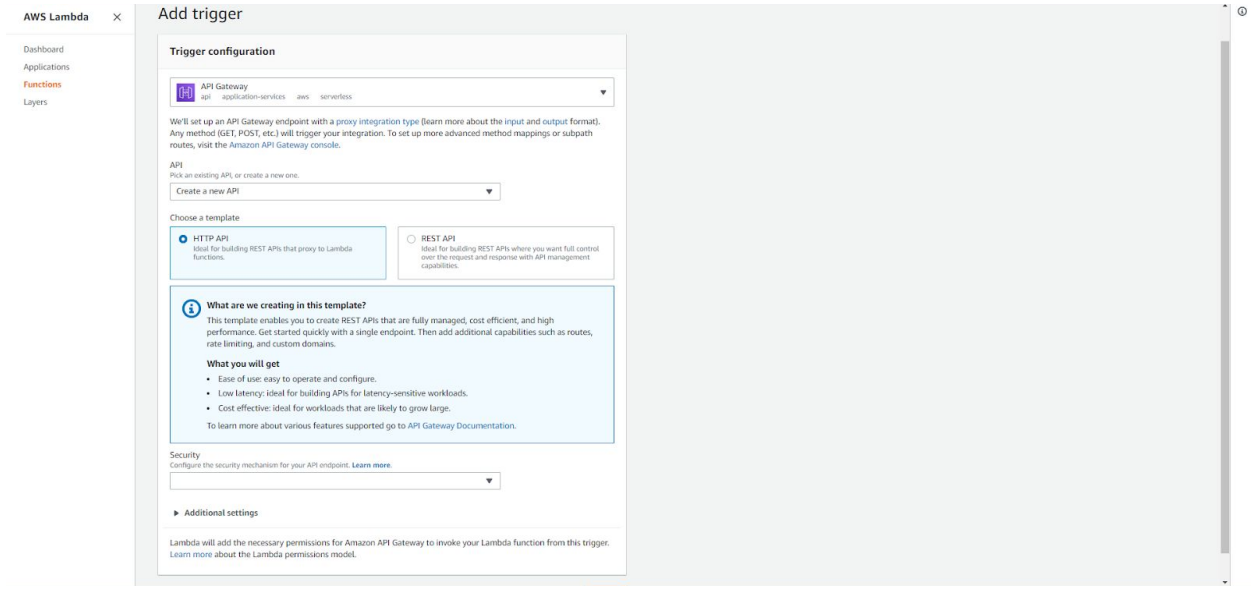
The result of testing myHelloWorldLambda from CloudWatch.

myHelloWorldLambda



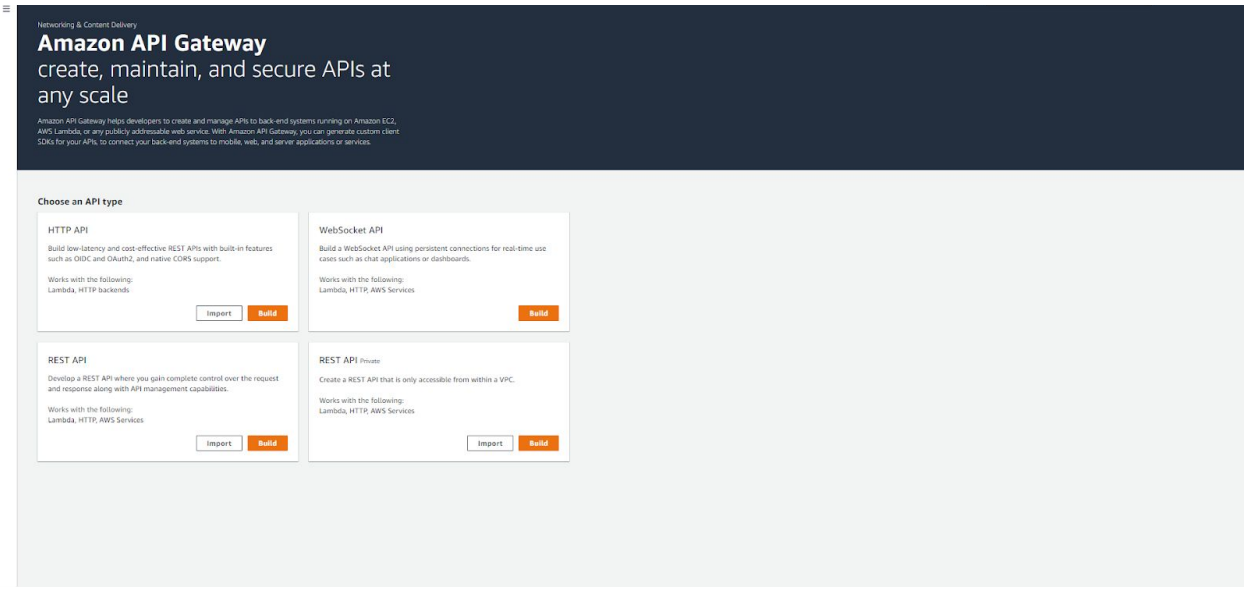
Back at the Configuration page, selecting “Add trigger”.

Add trigger



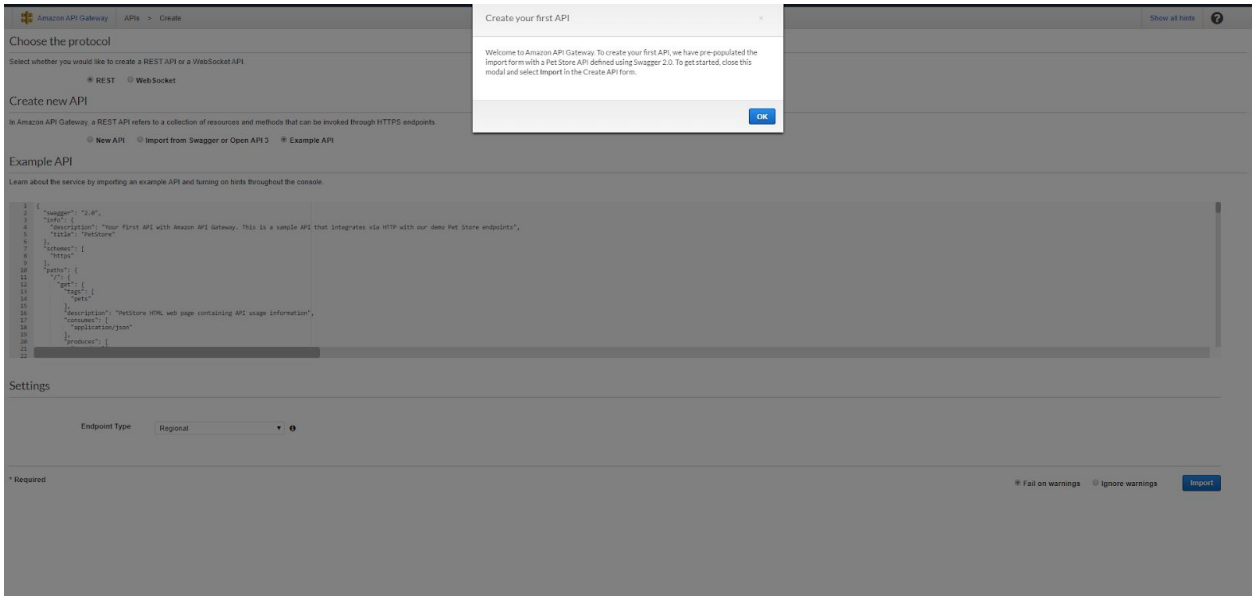
The trigger for this function will consist of an API Gateway. Gives the function an HTTP URL for function execution. Did not create the Gateway here.

Amazon API Gateway



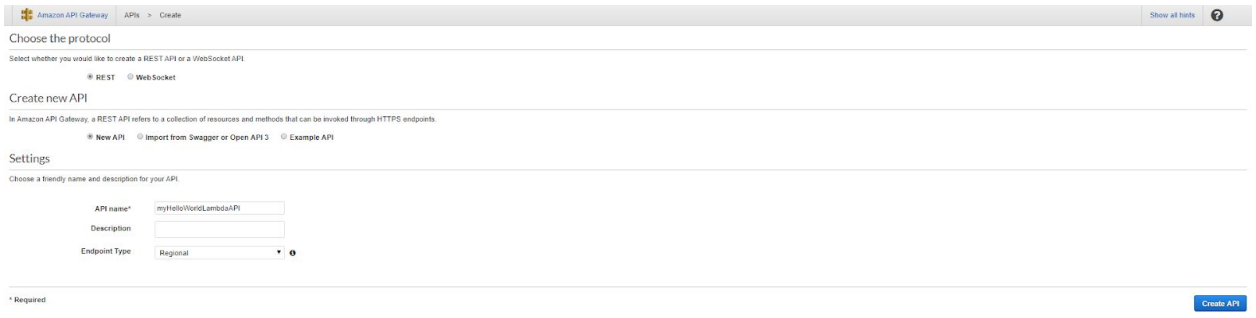
Creation of the Amazon API Gateway via the type “REST API”.

Amazon API Gateway



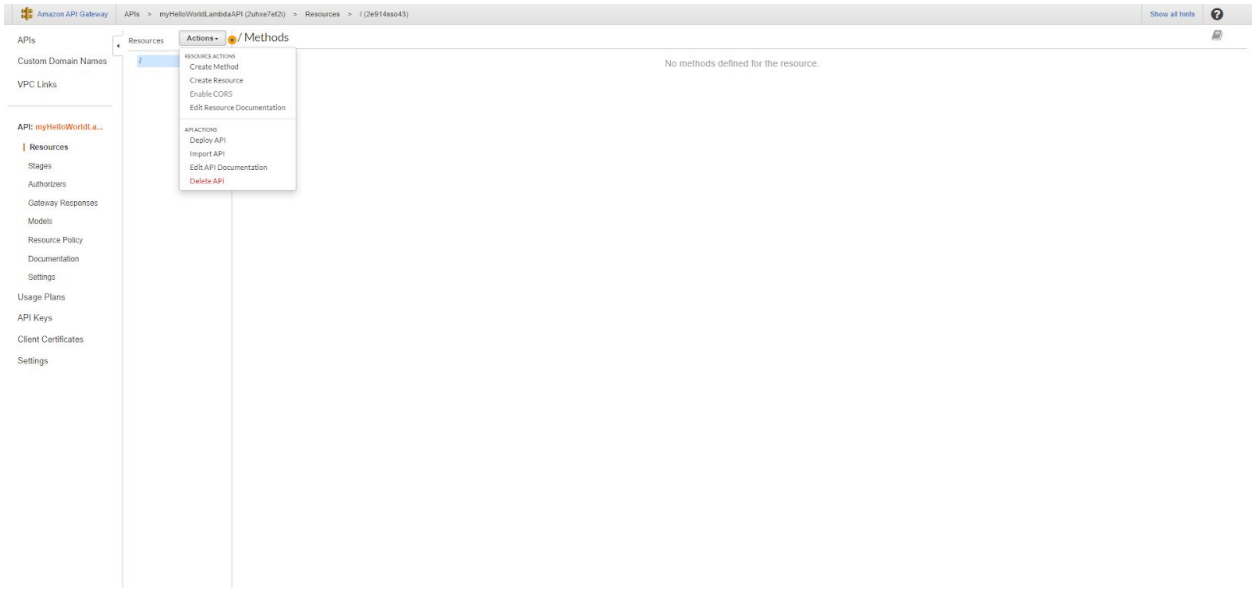
Welcome screen to Amazon API Gateway for the first time.

Amazon API Gateway Create



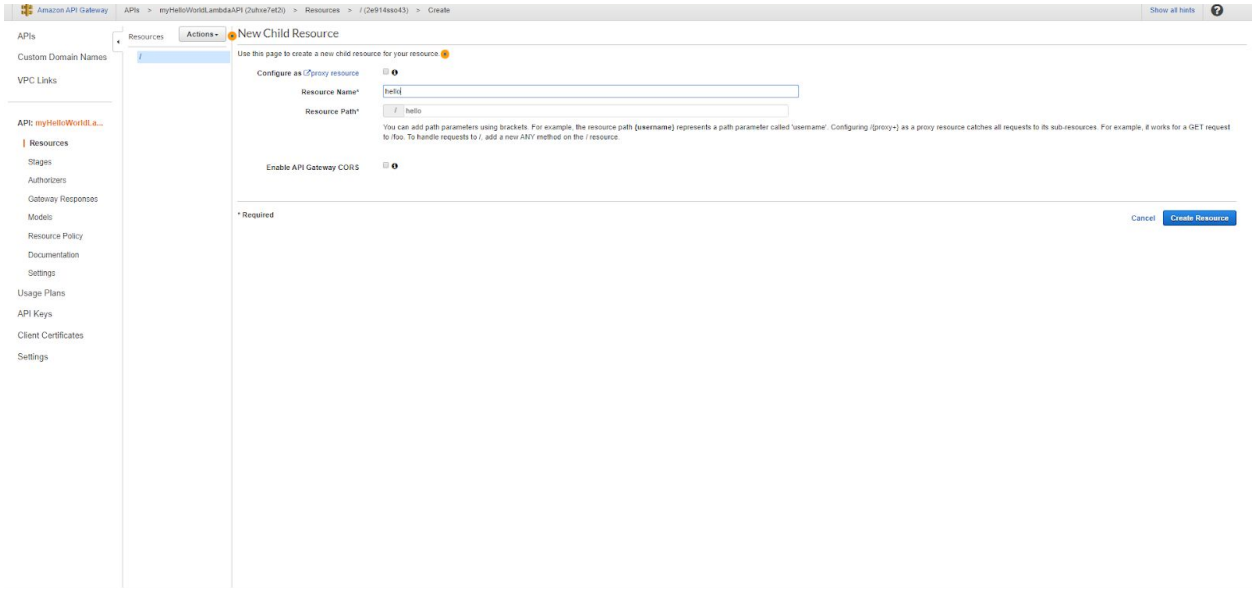
Choose New API and input an API name. Everything else left as default.

Amazon API Gateway



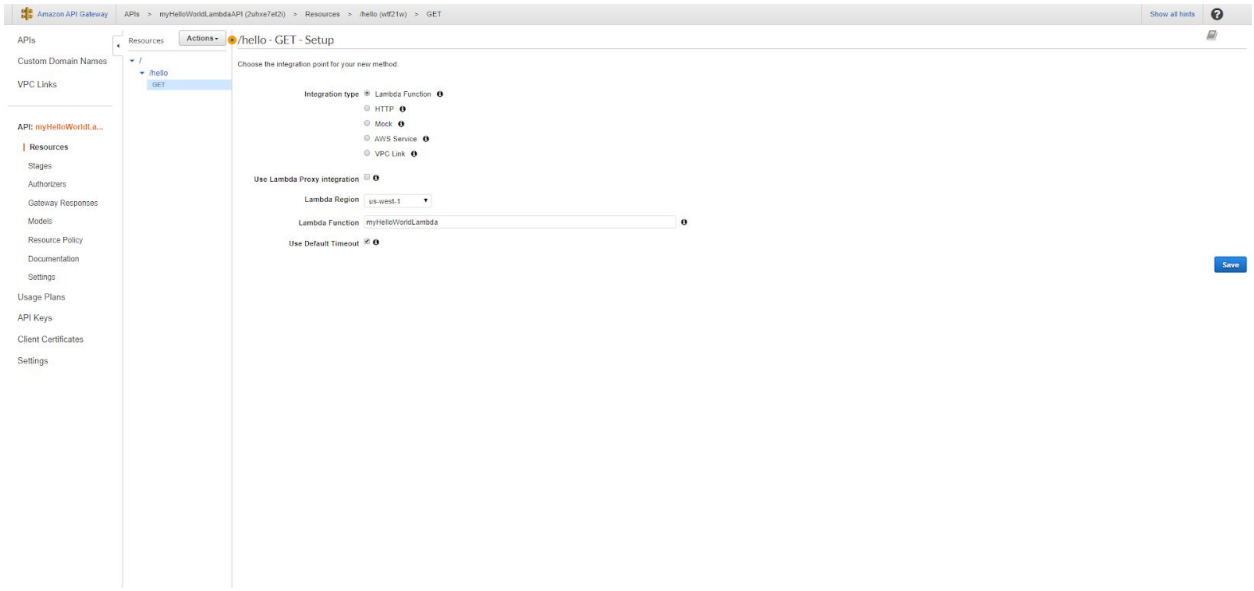
Creating a new resource.

Amazon API Gateway



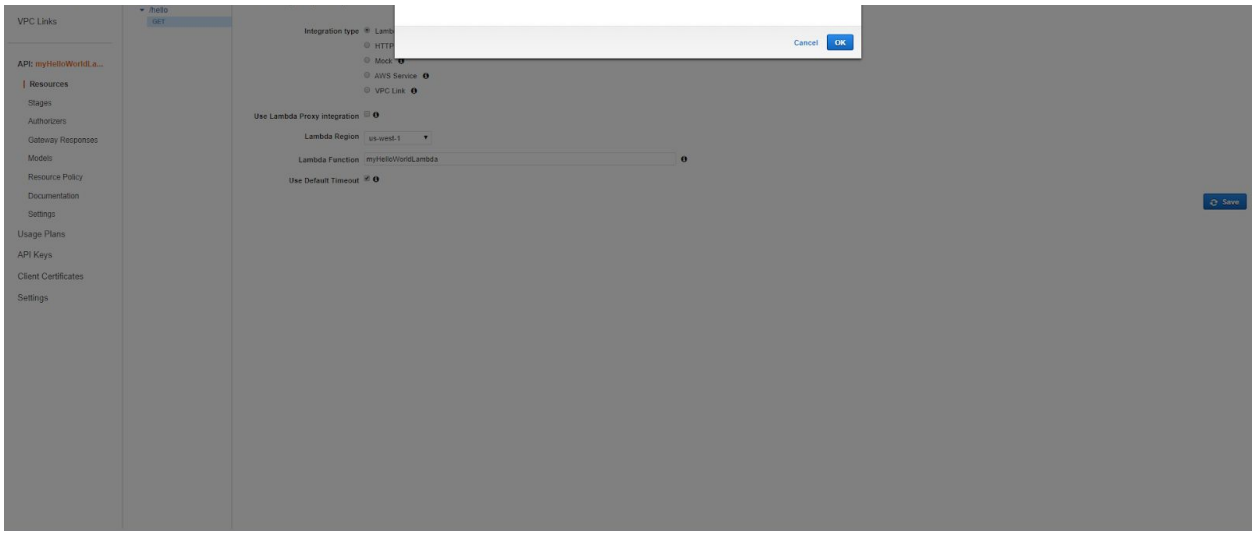
Created “hello” resource.

/hello - GET - Setup



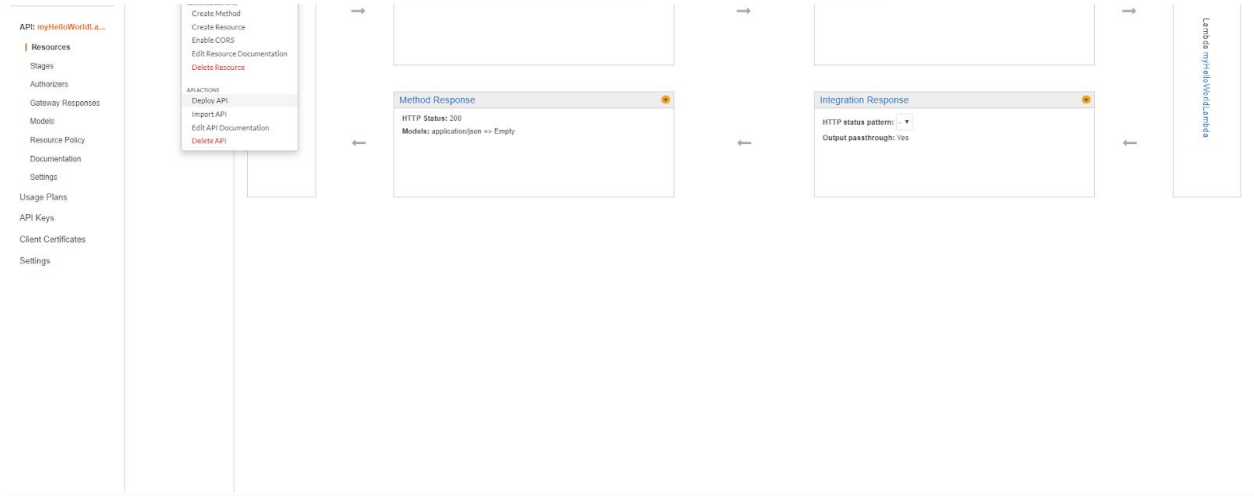
A GET method is set up with the Lambda Function created previously.

/hello - GET - Setup



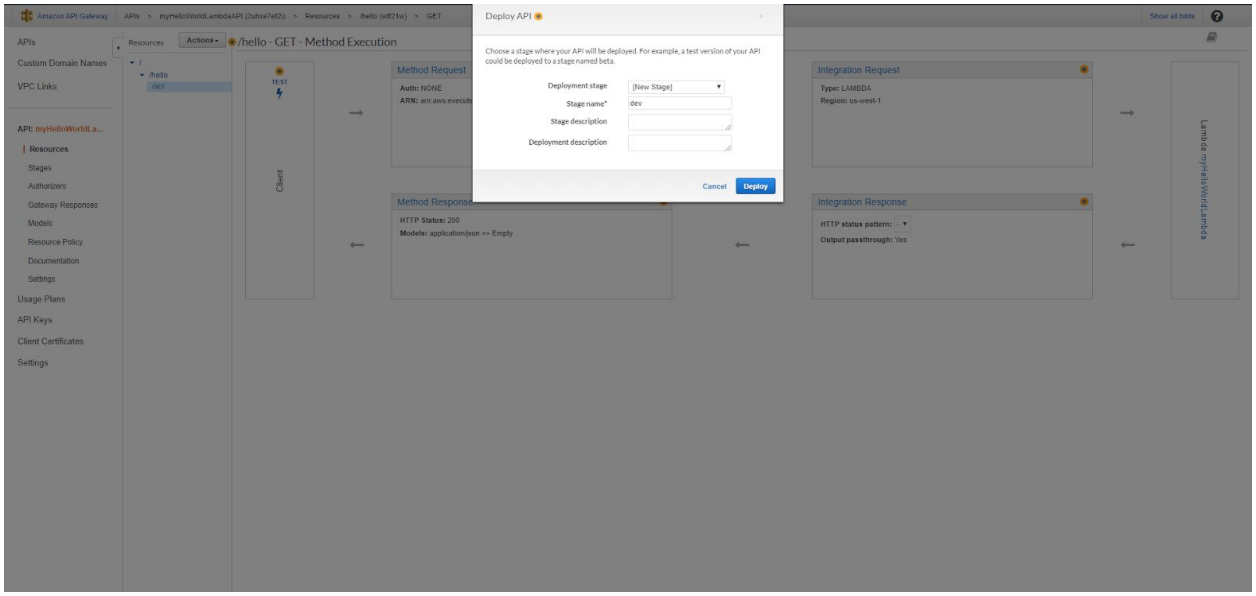
Confirmation of the GET method creation.

/hello - Deploy API



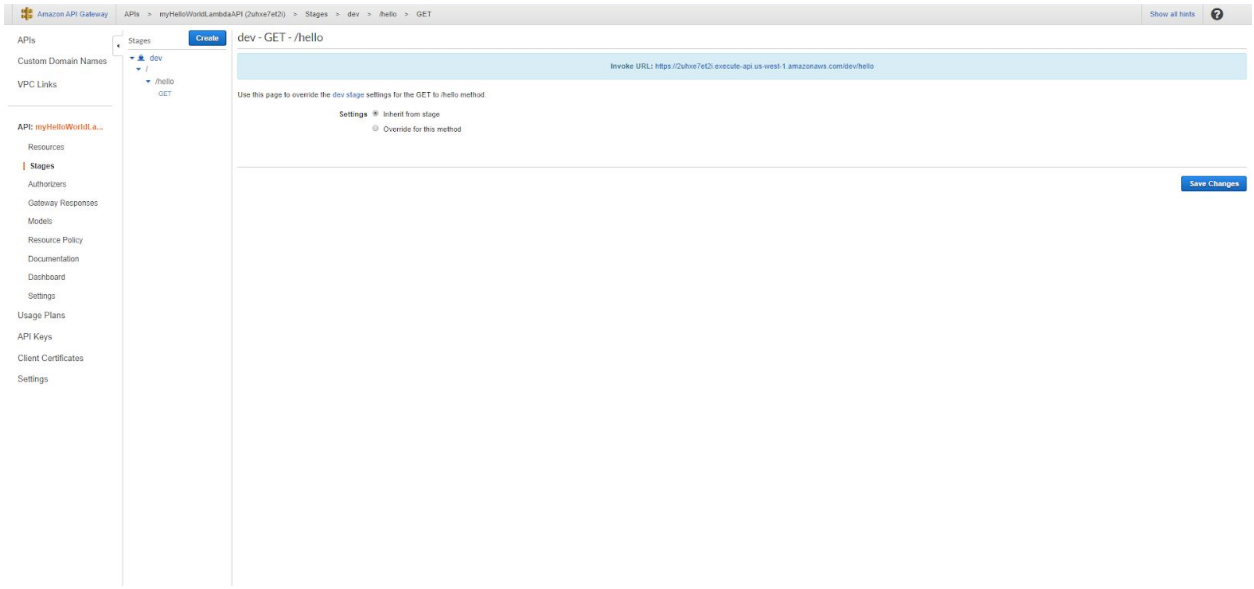
Deploy API under applications.

Deploy API



Stage name selected.

dev - GET -/hello

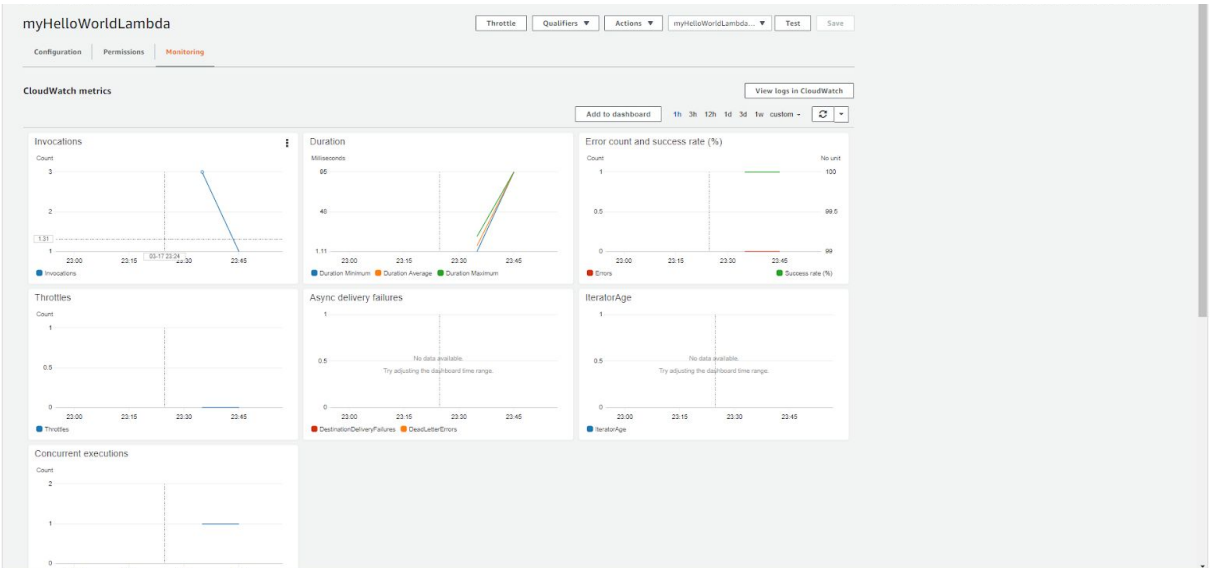


Invoke URL noted above in blue.

Webpage

Visiting the URL resource executes the lambda function created.

myHelloWorldLambda CloudWatch metrics



API Gateway has been attached and it’s activity is seen via CloudWatch.