

Amazon Gateway-Lambda

AREM-1

March 27, 2020

1 Introduction

In this laboratory it was created an AWS Lambda function with java 8, and an API-Gateway that enable the access to this function. At the same time, a Spark server was upload to an EC2 instance that contains the API-Gateway url in order to access to the offered function.

2 Test Report

1. Creating an event test
 - In this case, the test value is 500

Configurar un evento de prueba ×

Una función puede tener un máximo de 10 eventos de prueba. Los eventos se conservan hasta que cambia de equipo o navegador web y prueba la función con los mismos eventos.

☐ Crear un evento de prueba nuevo

☒ Editar eventos de prueba guardados

Evento de prueba guardado

testSquare ▼

↺

1	500
---	-----

Figure 1: Create test event.

2. Testing the previous event

- The square of 500 is 250000

square

Limitación

✔ Resultado de la ejecución: correcta (Registros)

▼ Detalles

En el área siguiente, se muestra el resultado devuelto por la ejecución de la función. [Obtenga más](#)

250000

Resumen

Código SHA-256
713lQf25cj5lShsuf1MTbms9FJI0wFwwtae59rhJys=

Duración
0.65 ms

Recursos configurados
512 MB

Resultado de registro

En la siguiente sección, se muestran las llamadas de registro del código. Se corresponden con una
el grupo de registros de CloudWatch.

Figure 2: Test event result

3. Testing the function from API-Gateway

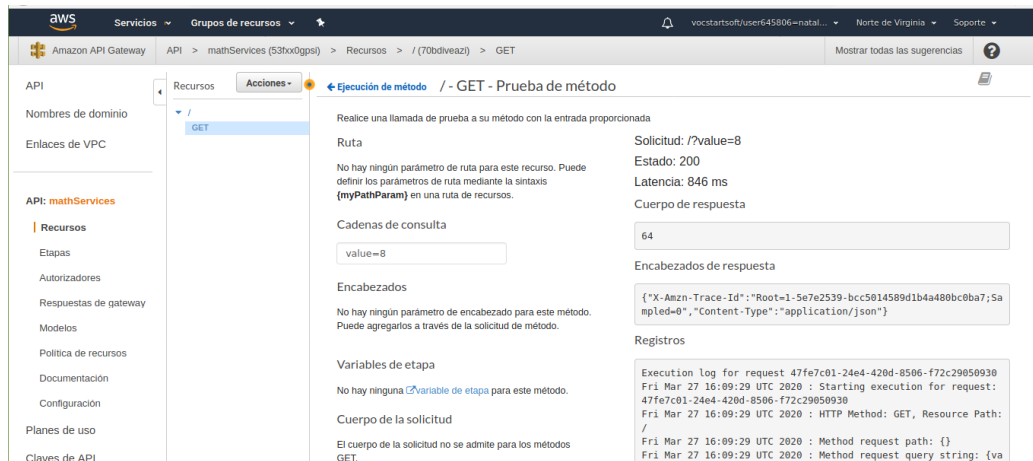


Figure 3: API Gateway Test

4. Testing API-Gateway service

- In this case, the test value is 74

<https://53fxx0gpsi.execute-api.us-east-1.amazonaws.com/beta?value=74>

Figure 4: API Gateway-URL

- The square of 74 is 5476

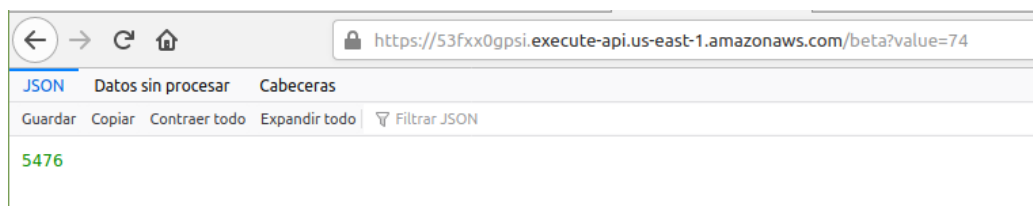
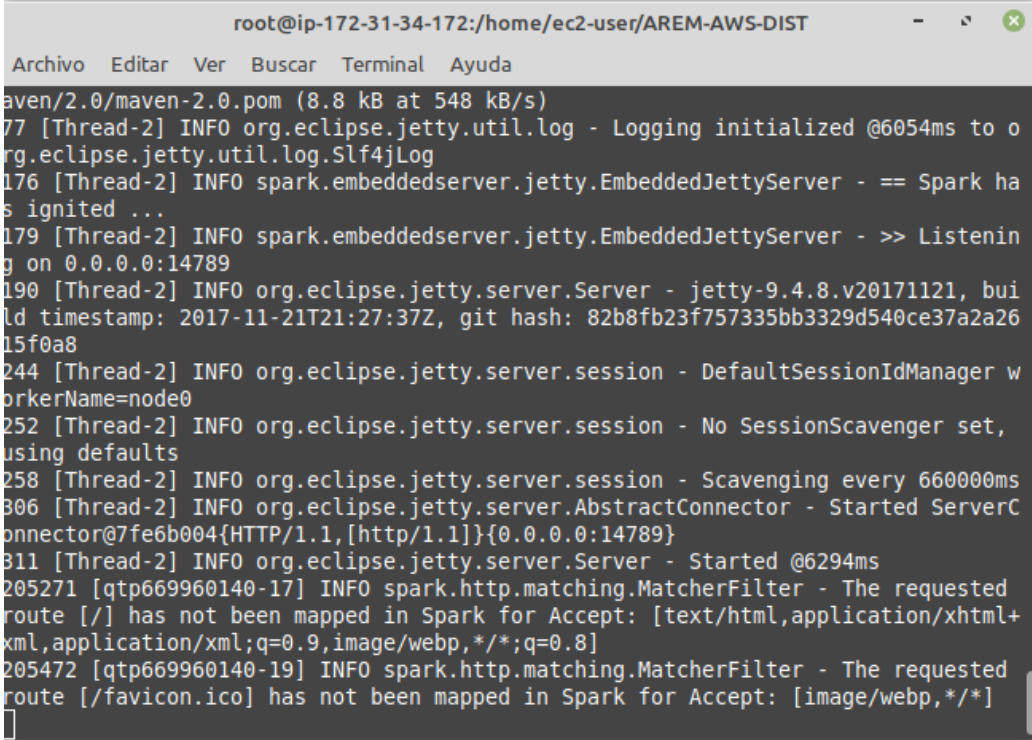


Figure 5: API Gateway-URL Test

5. Running EC2 instance with Spark



```
root@ip-172-31-34-172:/home/ec2-user/AREM-AWS-DIST
Archivo  Editor  Ver  Buscar  Terminal  Ayuda
aven/2.0/maven-2.0.pom (8.8 kB at 548 kB/s)
177 [Thread-2] INFO org.eclipse.jetty.util.log - Logging initialized @6054ms to o
rg.eclipse.jetty.util.log.Slf4jLog
176 [Thread-2] INFO spark.embeddedserver.jetty.EmbeddedJettyServer - == Spark ha
s ignited ...
179 [Thread-2] INFO spark.embeddedserver.jetty.EmbeddedJettyServer - >> Listenin
g on 0.0.0.0:14789
190 [Thread-2] INFO org.eclipse.jetty.server.Server - jetty-9.4.8.v20171121, bui
ld timestamp: 2017-11-21T21:27:37Z, git hash: 82b8fb23f757335bb3329d540ce37a2a6
15f0a8
244 [Thread-2] INFO org.eclipse.jetty.server.session - DefaultSessionIdManager w
orkerName=node0
252 [Thread-2] INFO org.eclipse.jetty.server.session - No SessionScavenger set,
using defaults
258 [Thread-2] INFO org.eclipse.jetty.server.session - Scavenging every 660000ms
306 [Thread-2] INFO org.eclipse.jetty.server.AbstractConnector - Started ServerC
onnector@7fe6b004{HTTP/1.1,[http/1.1]}{0.0.0.0:14789}
311 [Thread-2] INFO org.eclipse.jetty.server.Server - Started @6294ms
205271 [qtp669960140-17] INFO spark.http.matching.MatcherFilter - The requested
route [/] has not been mapped in Spark for Accept: [text/html,application/xhtmll+
xml,application/xml;q=0.9,image/webp,*/*;q=0.8]
205472 [qtp669960140-19] INFO spark.http.matching.MatcherFilter - The requested
route [/favicon.ico] has not been mapped in Spark for Accept: [image/webp,*/*]
]
```

Figure 6: EC2 Instance-Running

6. Accessing to EC2 instance service
 - In this case, the test value is 123



← → ↻ 🏠 ec2-54-82-225-132.compute-1.amazonaws.com:14789/square

Square of a Number


Instert a number

Calculate

Figure 7: EC2 Instance

7. Result from EC2 to API-Gateway service

- The square of 123 is 15129



← → ↻ 🏠 ec2-54-82-225-132.compute-1.amazonaws.com:14789/squareResult?number=123

Square

Result: 15129

Figure 8: EC2 Instance-Result