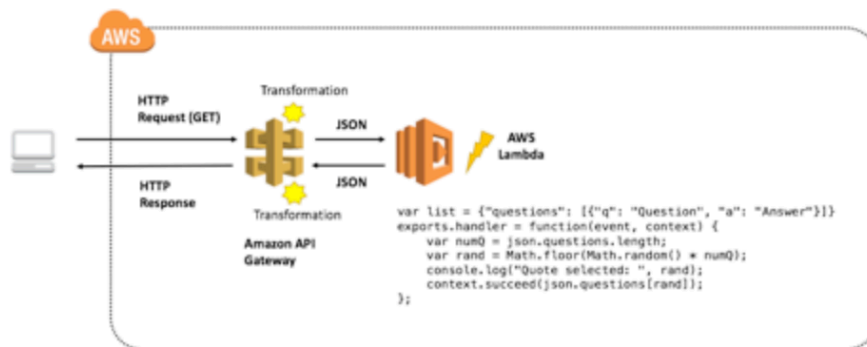# QwikLab: Intro to Amazon API Gateway

Time Spent: 50 min

Overview

In this lab, you will create a simple FAQ micro-service. The micro-service will return a JSON object containing a random question and answer pair using an **Amazon API Gateway** endpoint that invokes an **AWS Lambda** function. Here is the architecture pattern for the micro-service:

What I learned:
- How to create AWS lambda function
- How to create Amazon API Gateway endpoints
- Useful concept of Web development: API, RESTful etc.
- Although the lab isn't complicated, but the most important thing is under stand the mechanism of API Gateway and Lambda fuction
- We used both http call(on browser endpoints) and test by empty JSON object

What I built:
- **Built the Lambda fuction and use API Gateway to test it**

"q":"What is AWS Lambda?","a":"AWS Lambda lets you run code without provisioning or managing servers. You pay only for the compute time you consume - there is no charge when your code is not running. With Lambda ou can run code for virtually any type of application or backend service - all with zero administration. Just upload your code and Lambda takes care of everything required to run and scale your code with high vailability. You can set up your code to automatically trigger from other AWS services or call it directly from any web or mobile app."}

FAQ

✓ Execution result: succeeded (logs)   ✕

▼ Details

The area below shows the result returned by your function execution. Learn more about returning results from your function.

{
  "body": "{\"q\":\"What restrictions apply to AWS Lambda function code?\",\"a\":\"Lambda attempts to impose few restrictions on normal language and operating system activities, but there are a few activities that are disabled: Inbound network connections are managed by AWS Lambda, only TCP/IP sockets are supported, and ptrace (debugging) system calls are restricted. TCP port 25 traffic is also restricted as an anti-spam measure.\"}"
}

Summary

Code SHA-256

blu/CgVoZkh4saNbA/bj4mLthSTfhma5sEvKNxY7YTg=

Request ID

22b7af7c-fc1b-11e8-a30c-e9ab6812519e

Duration

0.89 ms

Billed duration

100 ms

Resources configured

128 MB

Max memory used

45 MB

Log output

The section below shows the logging calls in your code. These correspond to a single row within the CloudWatch log group corresponding to this Lambda function. Click here to view the CloudWatch log group.

2018-12-10T01:30:11.189Z   22b7af7c-fc1b-11e8-a30c-e9ab6812519e   Quote selected: 13
2018-12-10T01:30:11.189Z   22b7af7c-fc1b-11e8-a30c-e9ab6812519e   { body: '{"q":"What restrictions apply to AWS Lambda function code?","a":"Lambda attempts
to impose few restrictions on normal language and operating system activities, but there are a few activities that are disabled: Inbound network connections are
managed by AWS Lambda, only TCP/IP sockets are supported, and ptrace (debugging) system calls are restricted. TCP port 25 traffic is also restricted as an anti-
spam measure."}' }
END RequestId: 22b7af7c-fc1b-11e8-a30c-e9ab6812519e
REPORT RequestId: 22b7af7c-fc1b-11e8-a30c-e9ab6812519e Duration: 0.89 ms   Billed Duration: 100 ms   Memory Size: 128 MB   Max Memory Used: 45 MB