

# Cloud and DevOps

AWS & Serverless

by Eduard Bargués

# Some changes

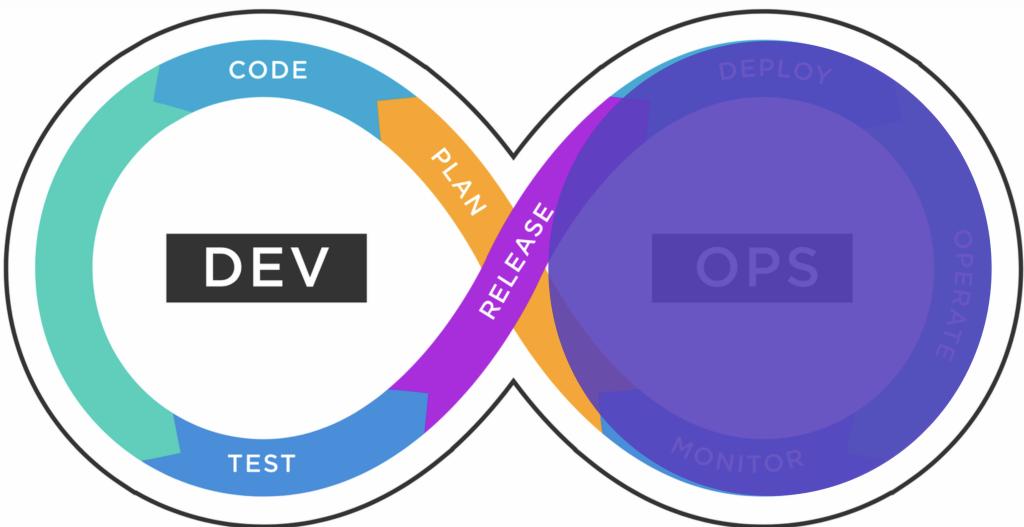


1. Hello Cloud
2. Software development
3. AWS & Serverless
4. Security in AWS
5. Cost management in AWS
6. Devops & CI/CD
7. Guest speaker

# Evaluation

**Assignments 70%**

**Attendance & engagement  
30%**



# DevOps

## Development & Operations



# Assignment 2

Questions & troubleshooting  
Let's do some exercices together



# Development

Find the `helloWorld` function and test it via the `console application`.

Console apps are great for manual testing.  
For automation, we use test frameworks such as `Jest`. Let's see an `example`.



# Level up

“ Create a function called *processNumbers* that receives a JSON object with one property *numbers* as array of integers and returns an object containing the maximum number and the total sum.

Do you know the [Math library](#)?

Test it via a console application.

Test it with Jest.

Barcelona Technology School S.L.



# NodeJs Lambda

- Create a *hello world* Lambda.
- Test it from the same UI.
- Create a *processNumbers* Lambda.
- Create an appropriate event and test your Lambda.

## Lambda in AWS

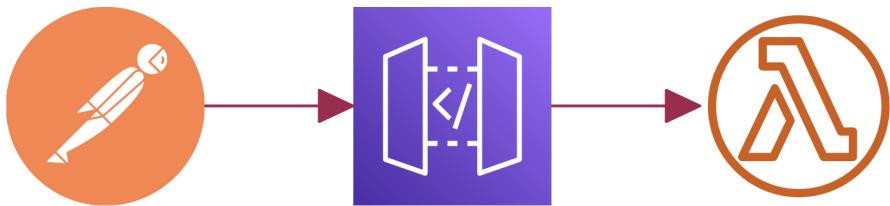
# Application Program Interface

Exposes resources that users can send and retrieve data from.

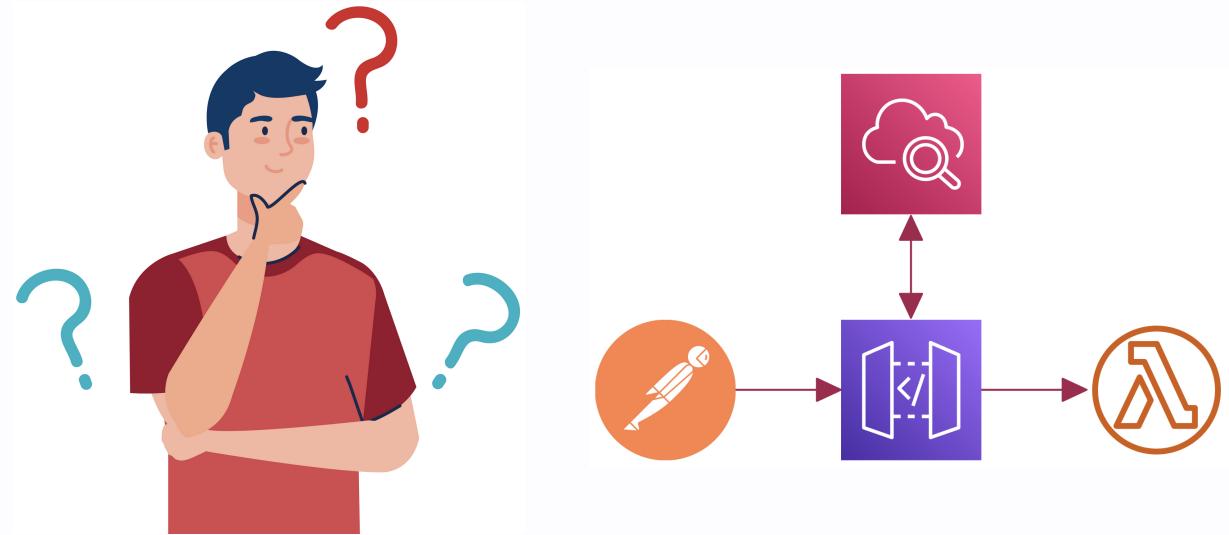
Usually, when we want to *obtain* information, we use the GET operation (a.k.a http method).

Let's explore [this api](#) with the help of [Postman](#).

# Create an Api



- Create a REST API via AWS' UI.
- Add a resource and method.
- Create a 'mock' integration.
- Test it via [Postman](#).
- Connect the method with Lambda.
- Test it again.



# Investigate

Something isn't right? 🤔  
Cloudwatch can help us.

# Conclusions

- Javascript(Js) and JSON are best friends.
- Lambda receives an *event* and executes any function.
- *Apis* are interfaces that expose *resources* and operations.
- Endpoints can receive data via the request's *body*.
- *APIgateway* integrates with Lambda to create APIs.
- *Console.log* and *Cloudwatch* help you troubleshoot.