

# Task #10 – Serverless basics

## What to read/watch beforehand

- [\[AWS docs\] What is Lambda?](#)
  - read the root article
  - look through the rest of the docs table of contents – you might want get back to it during the practical task implementation
- [\[AWS docs\] Lambda features](#)
- [\[AWS docs\] Getting started with Lambda](#)
- [\[AWS docs\] Lambda best practices](#)
- [\[AWS docs\] Lambda pricing](#)
- [\[AWS docs\] What is API Gateway?](#)
- [\[AWS docs\] API Gateway glossary](#)
- [\[AWS docs\] API Gateway pricing](#)
- [\[AWS docs\] Tutorial: creating a Lambda-backed API Gateway endpoint](#)
- [\[AWS docs\] S3 notifications](#)

## What's given

- your AWS account
- an SQS queue from module 8
- the web application from module 8

## What to save money on

- Prefer removing the resources created using the CF template(s) while not working on any practical tasks (the CF template should allow you to quickly re-create them in one shot as needed).
- Consider [stopping](#) your RDS instance while not working on any practical tasks.
- After the demo, consider removing the scheduled CloudWatch event which was created to trigger the lambda function on schedule.
- Also, after the demo, consider removing the lambda function created in sub-task 2 point 6.

## What answers to know

1. What ways of triggering a Lambda do you know?
2. What is the contract of Lambda function?
3. What is Lambda pricing?
4. How is it possible to test Lambda code without actually running it in AWS?
5. Which code libraries/frameworks are reasonable to use in Lambda?
6. How Lambda instances are reused? How to prepare the Lambda code for that?
7. What programming languages does Lambda support?
8. What is the difference between synchronous and asynchronous Lambda invocations?
9. What is Lambda concurrency?
10. What kinds of Lambda concurrency allocations are there?
11. What AWS resources can Lambda access? How?
12. What are the advantages of API Gateway endpoints over traditional web applications?

13. What are the typical API Gateway use cases?
14. What is API Gateway pricing?