

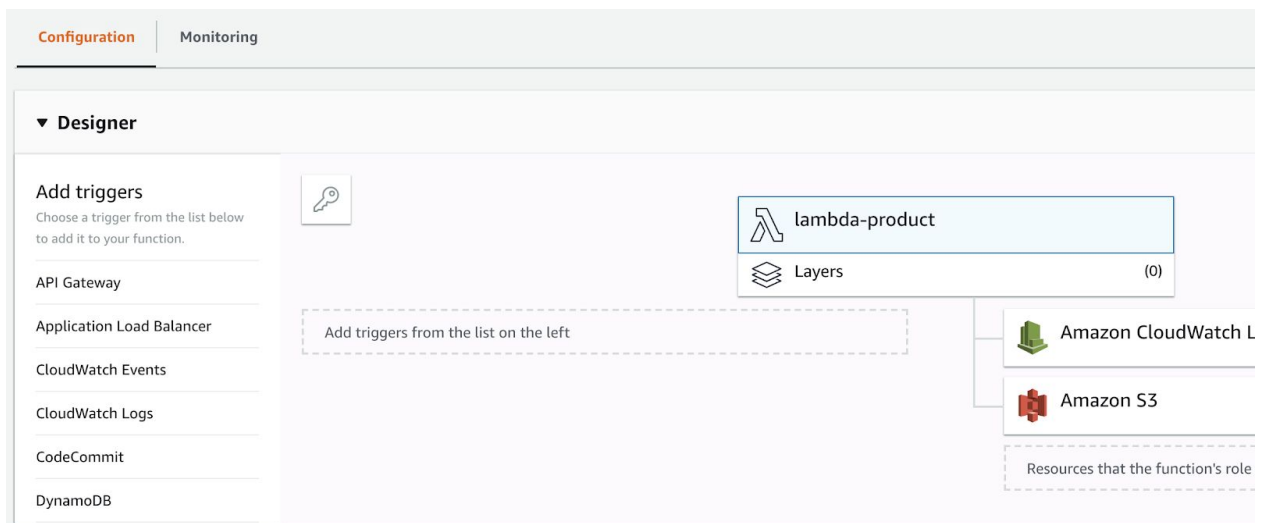
# Lambda functions

Lambda is a serverless service from AWS that allow the execution of small programs.

The functions will be triggered via Kong.

## Lambda 1

- Create a new function, **Author from scratch**
- Name  
**getAllProducts**
- Runtime  
**Python3.7**
- Role -> Choose an existing role  
**lambda-dynamo-execution-role**
- Select the function in the configuration panel



- Below you'll find the code panel, copy the content of **api-kong-lambda-christmas/lambda-functions/getAllProducts.py** file and select the Choose also the Runtime Python 3.7

## Function code [Info](#)

Code entry type

Edit code inline

Edit code inline

Upload a .zip file

Upload a file from Amazon S3

Runtime

Python 3.7

Environment

lambda\_function.py

```
1 import json
2
3 def lambda_handler(event, context):
4     # TODO implement
5     return {
6         'statusCode': 200,
7         'body': json.dumps('Hello from Lambda!')}
```

## Environment variables

You can define Environment Variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings.

Key

Value

► Encryption configuration

- To finish save the function

Throttle

Qualifiers ▼

Actions ▼

Select a test event.. ▼

Test

Save

For the next functions we will repeat the same steps.

## Lambda 2

Name: getProductDetails

Runtime: python3.7

Role -> Choose an existing role

**lambda-dynamo-execution-role**

Copy the content of : **api-kong-lambda-christmas/lambda-functions/getProductDetails.py**

### **Lambda 3**

Name: createNewCommand

Runtime: python3.7

Role -> Choose an existing role

**lambda-dynamo-execution-role**

Copy the content of :

**api-kong-lambda-christmas/lambda-functions/createNewCommand.py**

- We need to set some environment variables

MQ\_APIKEY

API\_URL

# Host the website with S3

Our S3 bucket will host the shopping website.

If you visit right now the url given in the lab 0 you will get a 404 error

Therefore we need to add some content.

Before you do you need to change the `API_PLATFORM_ULI` in the `index.html` and replace it with Kong's (`webfront/index.html`)

```
<script type="text/javascript">
  var API_PLATFORM_URL = "http://35.180.196.52:8000";
  var API_PRODUCTS = API_PLATFORM_URL + '/workshop/products';
  var API_COMMANDS = API_PLATFORM_URL + '/workshop/commands';
</script>
```

- Head to the Amazon Console and access S3 service.



Storage

S3

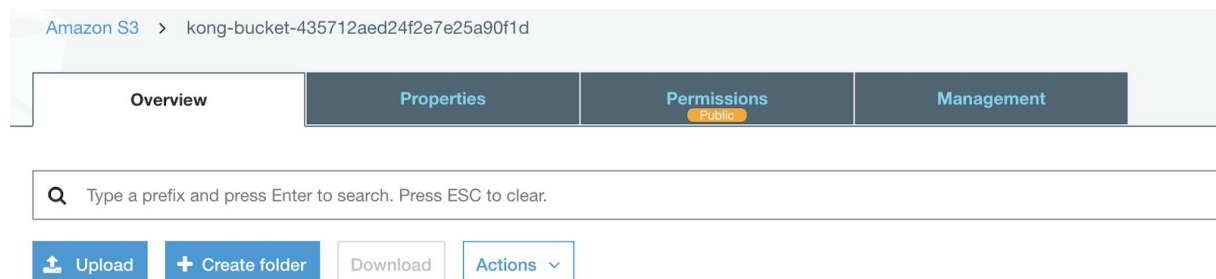
EFS

FSx

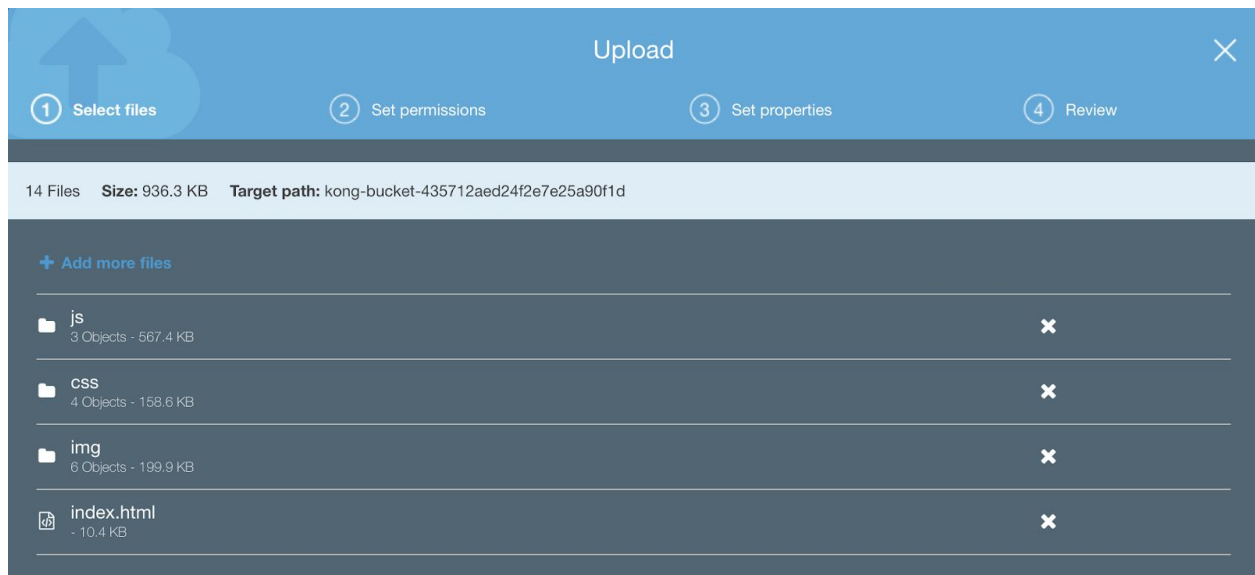
S3 Glacier

Storage Gateway

- Access your bucket (which was created by terraform)



- Click Upload, and select the whole content of the webfront directory



- Finally, you can access your Christmas shopping site, click on the url you were first given (lab 0).



**Congrats !**