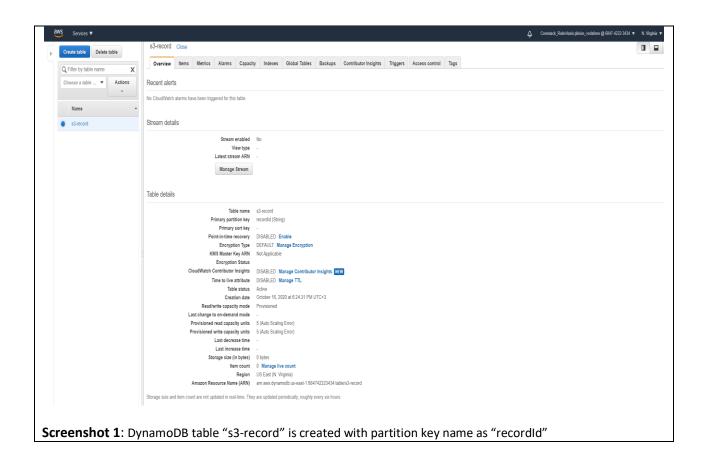
## **AWS Developer Associate Project**

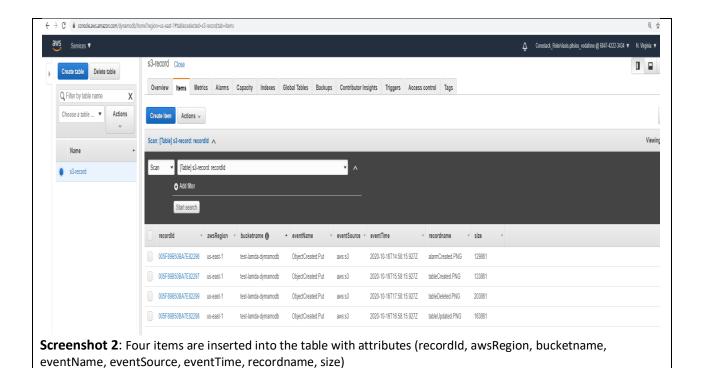
Name: Vlasis Pitsios

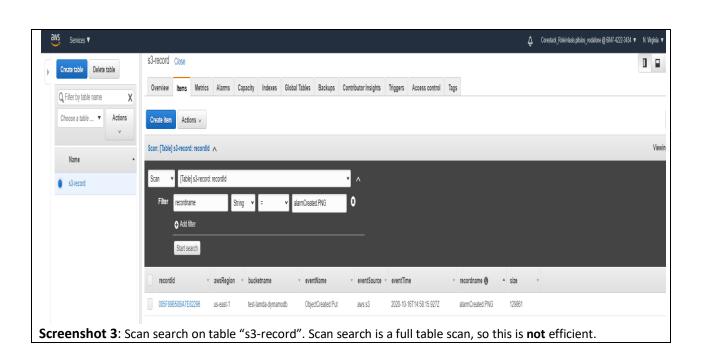
Email: vlasis.pitsios@vodafone.com

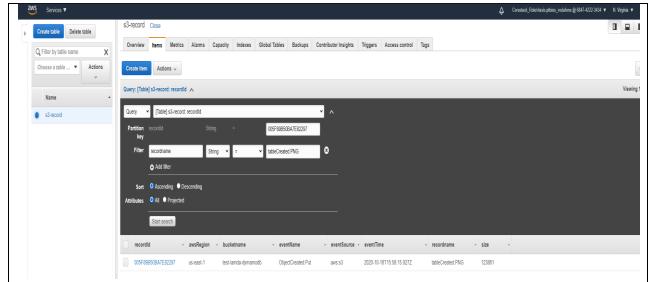
Company: Vodafone

Main project: Create the Amazon Dynamo DB Table, Add Items in to Table, Query it, Delete the table

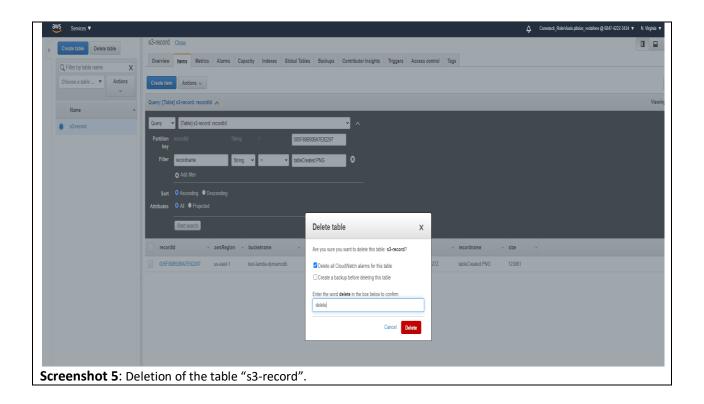




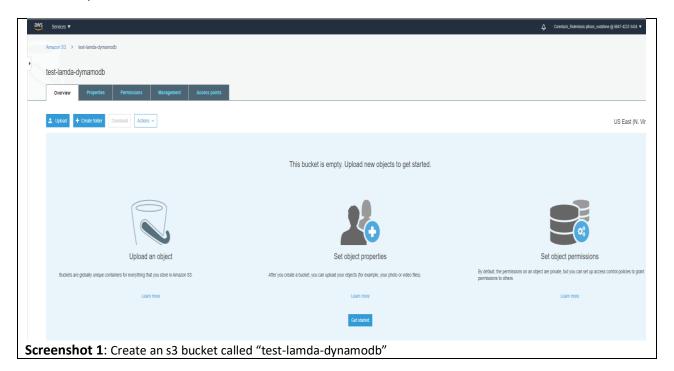


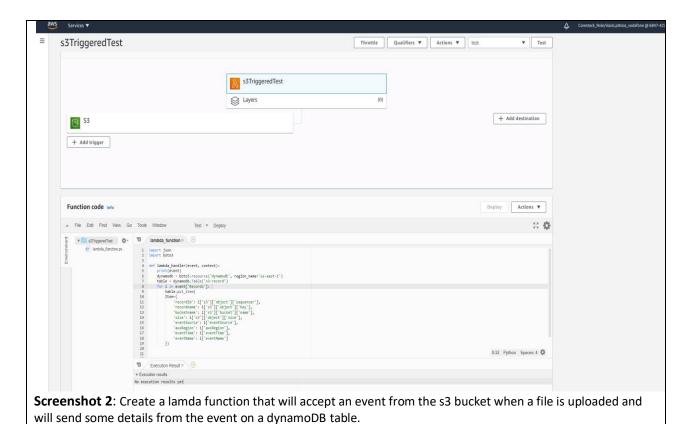


**Screenshot 4**: Query search on table "s3-record". This is better in terms of performance as this search creates an index and is faster.



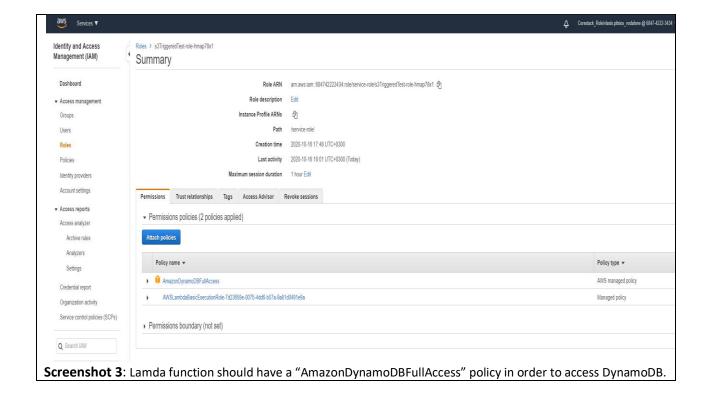
**Optional project:** Upload a file on S3 and a lamda function should be triggered that will insert some data on a table in DynamoDB.

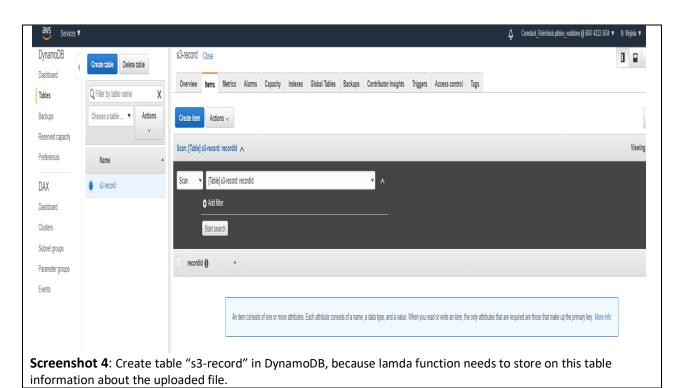


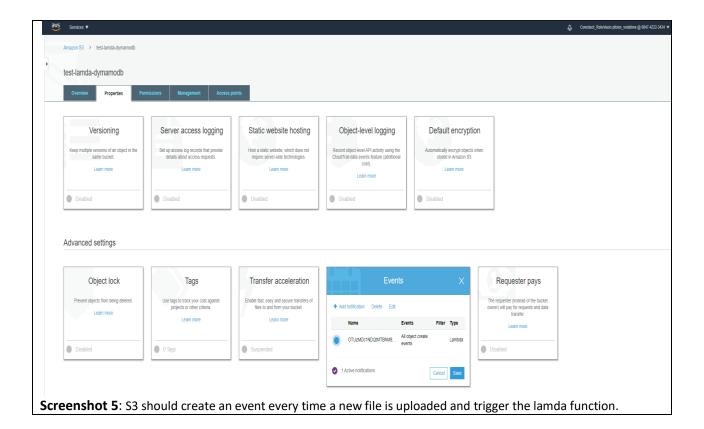


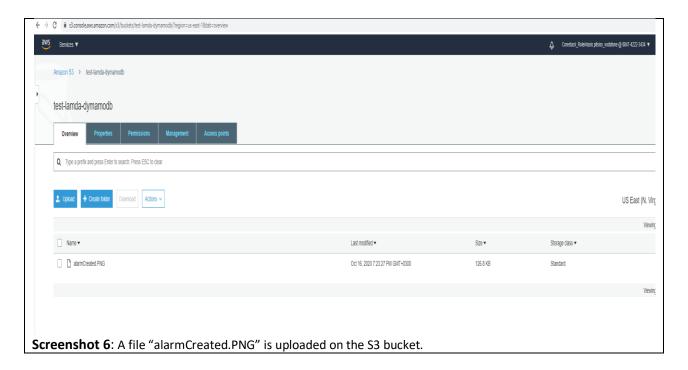
```
Python code:
import json
import boto3
def lambda_handler(event, context):
  print(event)
  dynamodb = boto3.resource('dynamodb', region_name='us-east-1')
 table = dynamodb.Table('s3-record')
 for i in event['Records']:
    table.put_item(
    Item={
      'recordId': i['s3']['object']['sequencer'],
      'recordname': i['s3']['object']['key'],
      'bucketname': i['s3']['bucket']['name'],
      'size': i['s3']['object']['size'],
      'eventSource': i['eventSource'],
      'awsRegion': i['awsRegion'],
      'eventTime': i['eventTime'],
      'eventName': i['eventName']
```

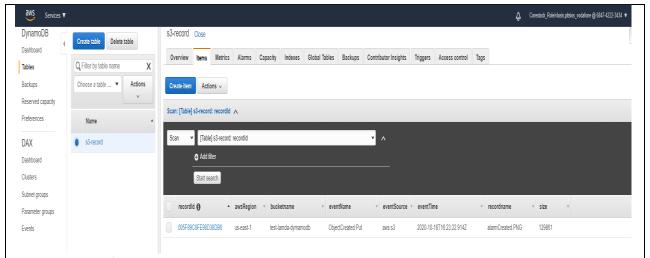
```
S3 event which triggers the lamda function
 "Records": [
 {
  "eventVersion": "2.1",
  "eventSource": "aws:s3",
  "awsRegion": "us-east-1",
  "eventTime": "2020-10-16T14:58:15.927Z",
  "eventName": "ObjectCreated:Put",
   "userIdentity": {
   "principalId": "AWS:AROAZ63OREZFEFUGBGZCA:vlasis.pitsios_vodafone"
  "requestParameters": {
   "sourceIPAddress": "91.140.88.253"
  },
  "responseElements": {
   "x-amz-request-id": "09F581FA2632810B",
    "x-amz-id-2": "192F98OdOzRZHDYSVHSsFNApzLeCSZHWEGIJeY8SNblpcKTtOV4SZ95GBN6Eh79cXZ4a+jAV910YqtYE0FW0iaChTM63IGjf"
  },
  "s3": {
   "s3SchemaVersion": "1.0",
    "configurationId": "OTUzMDc1NDQtMTBhMS00MTBhLTg0NjYtZDQ2YTM3YzM3MWMx",
    "bucket": {
     "name": "test-lamda-dymamodb",
    "ownerIdentity": {
     "principalId": "A3JTXMCNICSX2"
    },
     "arn": "arn:aws:s3:::test-lamda-dymamodb"
   },
    "object": {
    "key": "alarmCreated.PNG",
     "size": 129861,
     "eTag": "3bab12e1b1eac319317c43ba5035e26f",
    "sequencer": "005F89B50BA7E82296"
 }
```



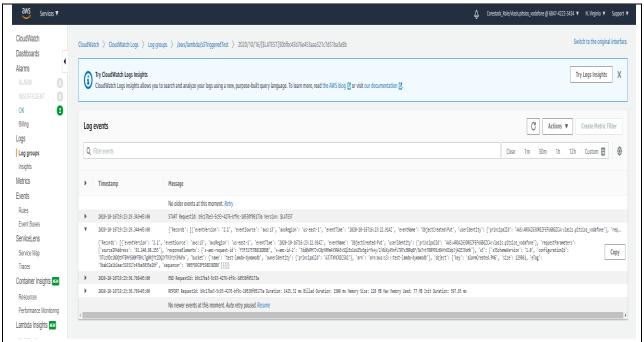








**Screenshot 7**: Information about the file "alarmCreated.PNG" are inserted into the DynamoDB table "s3-record".



**Screenshot 8**: Logs from AWS Cloudwatch. Lamda is triggered when the file "alarmCreated.PNG" was uploaded. The event is created and logged.