

# Book

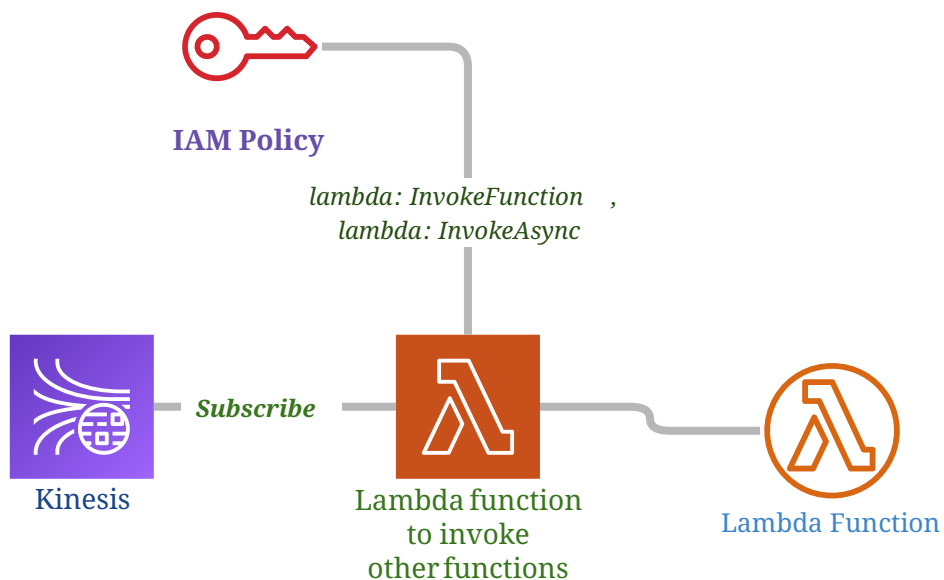
Doc Writer m.thirumal@hotmail.com

## 1. Computer Science

### 1.1. AWS

#### 1.1.1. Lambda Functions

## Invoke AWS Lambda function from another lambda function



## 1. Prerequisite

- **IAM role** to attach below policy to the **invoking** lambda function
  - `lambda:InvokeFunction`,
  - `lambda:InvokeAsync`

## 2. Steps

- Create invoker lambda function
  - Attach **IAM** policy
- Create lambda function for invoking
- Test it

## 3. Sample code with AWS Chalice fraework

*Saple code to invoke another lambda function*

```
from chalice import Chalice

import logging
import boto3

app = Chalice(app_name='lambda-invoker')

logger = logging.getLogger()
logger.setLevel(logging.DEBUG)

# Define the client to interact with AWS Lambda
client = boto3.client('lambda')

@app.on_kinesis_record(stream=os.environ.get('kinesisStreamName'))
def handler(event):
    logger.debug("Received event {}".format(event))
    #Invoke Lambda
    client.invoke(
        FunctionName = "arn:aws:lambda:ca-central-1:047076321700:function:eballot-
pollBetaStack-Handler-N3Z7PX8BK9PE",
        InvocationType = "Event",
        Payload = event
    )
    return
```

### 3.1. Pagination

## Pagination

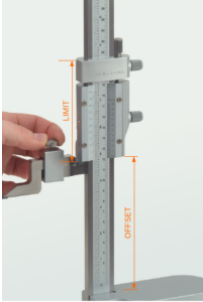
Pagination is a sequence of pages which are connected and have similar content

*Page* is a fixed count of results or fixed size of results

Client application may request to skip multiple page and fetch the following page

### Keywords

- LIMIT,
  - "LIMIT" as it's name suggests, limits the number of rows returned in a SELECT query
- OFFSET,
- ORDER BY
- Pagination



## 1. Types of Pagination

- Offset-based Pagination
- Token-based Pagination

## 2. Offset Based Pagination

### 2.1. Traverse Forward

### 2.2. Traverse backward

## 3. Token Based Pagination

### 3.1. Traverse Forward

**nextToken** is used to specify the record after which additional items should be fetched, along with the page size.

The implementation of the token is system-specific.

**DynamoDB** is an example of a system that uses **token-pagination**

### 3.2. Traverse backward

## 4. Pagination in Graph

Vertices can be referred directly but when we execute a graph traversal we are effectively conducting a complex join among the vertices that take part in the traversal.

In the general case, to support pagination, we need to store some state for each of the participating node and edge, as each of them may contribute to the final output during the computation of the next page.

### 4.1. AsciiDoc

```
include::asciidoc.adoc[]
```

## 5. Biology

## 6. Botonay

### 6.1. Inosculation

When branches or roots of different trees are in prolonged intimate contact, they often abrade each other, exposing their inner tissues, which may eventually fuse.

It's not so much one tree feeding another as the formation of a new hybrid organism.

