Book

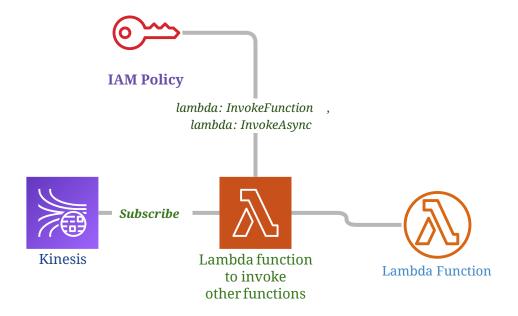
Doc Writer m.thirumal@hotmail.com

1. Computer Science

1.1. AWS

1.1.1. Lambda Functions

Invoke AWS Lambda function from another lambda function



1. Prerequisite

- IAM role 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. DynamoDb

3.1.1. DynamoDb to Kinesis Stream

- · Create kinesis stream
- select the kinesis stream in Dynamodb table overview

3.2. Linux

3.3. Install/update Visual studio code in Ubuntu

```
sudo dpkg -r code
sudo dpkg -i code_1.56.2-1620838498_amd64.deb
```

3.4. Pagination

3.4.1. 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

4. Thinks that are need to be handled

- · Skiping page
- Fetch based on the page & limit



5. Types of Pagination

- · Offset-based Pagination
- · Token-based Pagination

6. Offset Based Pagination

6.1. Traverse Forward

6.2. Traverse backward

7. Token Based Pagination

7.1. 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 at system that uses token-pagination

7.2. Traverse backward

8. 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.

8.1. AsciiDoc

include::asciidoc.adoc[]

9. Biology

10. Botonay

10.1. 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.

