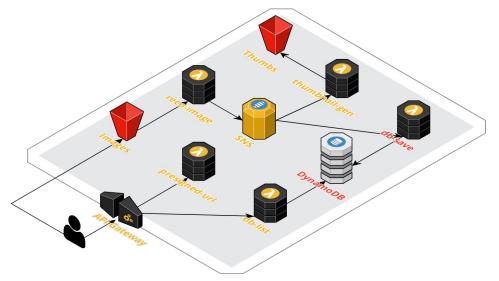
AWStack training - Serverless

Hands On #5 - DynamoDB - Save results

Overview

This Hands-on is composed of 2 parts:

- <u>DynamoDB Part</u>: new table to store image recognition results
- 2. <u>Lambda Part</u>: new function to write results in DynamoDB, triggered by SNS topic



Let's go! | DynamoDB Part

Go to Virginia region

N. Virginia 🕶

Create a DynamoDB table having these properties:

- **Table Name**: ImageRecoResults
- Primary Key: id
- Use the default settings

Once done -> Go to Lambda Part

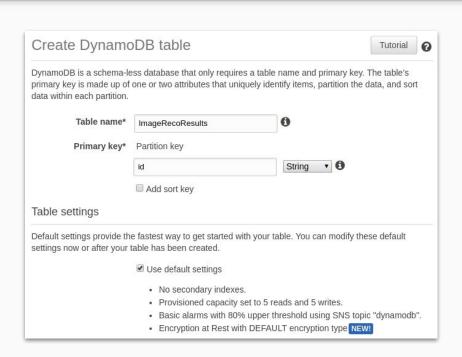
Context:

In this part we create a new DynamoDB table in order to store the image recognition results.

Documentation:

https://docs.aws.amazon.com/dynamodb/index.html

DynamoDB - Create a new table "ImageRecoResults"



Let's go! | Lambda Part

Create a lambda function having these properties:

- Name: py-aws-lambda-db-save
- **Runtime**: Python 3.6
- **Trigger**: SNS (use the topic created previously)
- **Role**: serverless_lambda_role
- Add a new Environment variable containing the table name created previously
 - Name: dynamodbTableName
 - Value: ImageRecoResults
- Upload the Function code from the S3 bucket: https://s3.amazonaws.com/awstacktraining-serverless-resources/code-templates/py-aws-lambda-db-save-template.zip

Once done -> Go to **Testing** part to test your Lambda

Context:

In this part we create a new Lambda function in charge of writing recognition results in DynamoDB.

The function is triggered by each publish in the SNS results topic created previously.

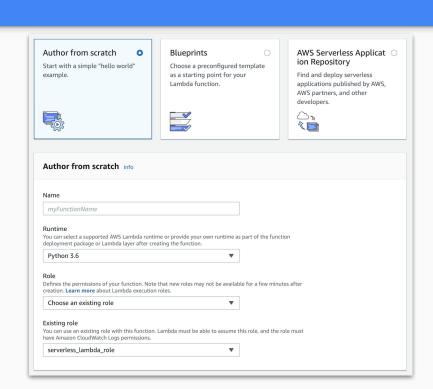
Documentation:

https://boto3.amazonaws.com/v1/document ation/api/latest/guide/dynamodb.html

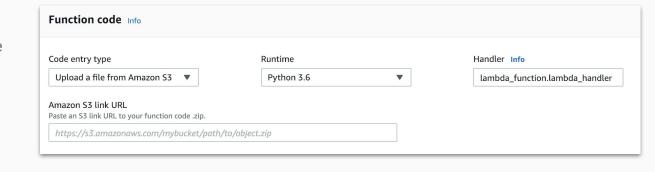
Lambda Creation - create a new
Lambda function

"py-aws-lambda-db-save" using the
existing role

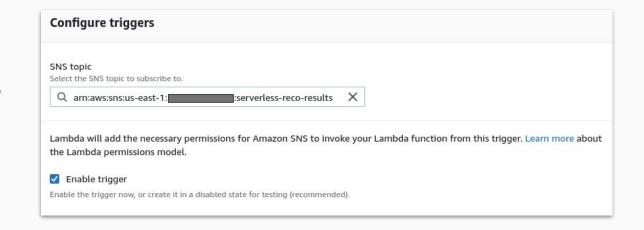
"serverless_lambda_role"



Lambda Configuration - Upload the function code from the S3 link URL given in "Let's Go" section



Lambda Configuration - Add a new SNS Trigger from list on the left

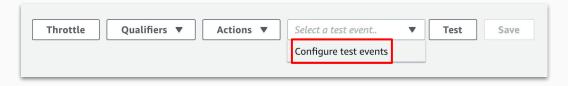


Lambda Configuration - Add a new environment variable "dynamodbTableName"

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 without the need to change function code. Learn more. dynamodbTableName			
Key	Value	Remove	

Test the lambda function

- 1. Copy the test json sample **test-sample.json** from **Function code**
- 2. Configure a new **Test event** from the top menu



3. Paste the json sample, create the test event and test!

Done!

Test the full integration by uploading an image in the S3 bucket, checking CloudWatch logs and DynamoDB table!

You can download the Lambda code at

