AWStack training - Serverless

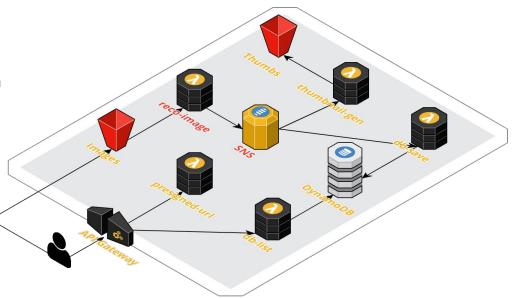
Hands On #4 - SNS | Lambda - Publish Results

Overview

This Hands-on is composed of 2 parts:

SNS Part : new SNS topic to push recognition results

2. Lambda Part : update "reco-image" function to publish results in the SNS topic



Let's go! | SNS Part

Go to Virginia region

N. Virginia 🕶

Create a SNS topic having these properties:

- **Topic Name**: serverless-reco-results
- **Display Name**: reco-res
- Use all default **settings**

Copy the topic ARN in the clipboard.

Once done -> Go to Lambda Part

Context:

In this part we create a SNS topic in order to publish recognition results. Other function or services could then subscribe to this topic and exploit results.

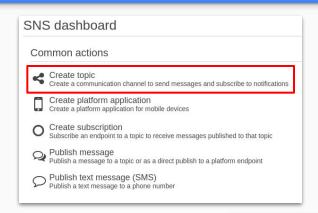
Documentation:

https://docs.aws.amazon.com/sns/index.ht ml

https://docs.aws.amazon.com/sns/latest/dg/sns-getting-started.html

Hint 1

SNS Topic Creation - from SNS dashboard, create a new topic "serverless-reco-results"





topic name will be used to	create a permanent unique identifier called an Amazon Reso	urce Name (ARN).
Topic name	serverless-reco-results	0
Display name	reco-res	θ

Let's go! | Lambda Part

Open the lambda function created with previous hands-on:

• Name: py-aws-lambda-image-reco

Do the following updates:

- Edit the **code** to uncomment the last part allowing the function to publish results in the SNS topic
- Add a new Environment variable containing the sns topic ARN created previously
 - Name: snsTopicArn
 - Value: paste the topic ARN

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

Context:

In this part we update the lambda function py-aws-lambda-image-reco to publish the recognition results in the SNS topic

Documentation:

Hint 2

Lambda Configuration - Add a new environment variable "snsTopicArn" with the arn of the SNS topic just created

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.						
snsTopicArn	arn:aws:sns:us-east-1:	serverless-reco-results	Remove			
Кеу	Value		Remove			

Hint 3

Lambda code - uncomment the following code

```
snsTopicArn = os.environ["snsTopicArn"]
response = sns.publish(
       TargetArn=snsTopicArn,
       Message=json.dumps({'default': json.dumps(result)}),
       MessageStructure='json'
print(response)
```

Test the lambda function

Use the test event previously created to test!