

Result : [Lambda]

Task 02

The screenshot displays the AWS Lambda console for a function named 'lambda-s3'. The 'Function overview' tab is active, showing the function's configuration. The 'Layers' section indicates that no layers are currently attached. The 'Triggers' section shows an S3 trigger. The 'Destinations' section shows an Amazon SNS destination. The 'Code source' tab is also visible, showing the function's code in a Python file named 'lambda_function.py'. The code is a lambda handler that receives an event from S3 and prints the event details.

Function overview

lambda-s3

Layers (0)

S3

Amazon SNS

+ Add trigger

+ Add destination

Description

Last modified: 19 minutes ago

Function ARN: arn:aws:lambda:us-east-1:731589008417:function:lambda-s3

Function URL: Info

Code source

Test

Deploy

```
1 import json
2 import urllib.parse
3 import boto3
4
5 print('Loading function')
6
7 s3 = boto3.client('s3')
8 sns = boto3.client('sns')
9
10 def lambda_handler(event, context):
11     # Print the event details
12     print("Received event: " + json.dumps(event, indent=2))
13
14     # Get the object, Key and eventName from the event and show its content type
15     bucket = event['Records'][0]['s3']['bucket']['name']
```

I've created new role that have a permission to put logs and create logs on cloudwatch :

The screenshot displays the AWS IAM console for a role named 'role-lambda'. The 'Summary' tab is active, showing the role's creation date, last activity, and ARN. The 'Permissions' tab is also visible, showing the role's permissions policies. The 'policy_lambda' policy is listed, which allows the role to create and manage logs in CloudWatch.

Identity and Access Management (IAM)

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Related consoles

IAM Identity Center

role-lambda

Allows Lambda functions to call AWS services on your behalf.

Summary

Creation date: September 23, 2022, 14:40 (UTC+03:00)

Last activity: None

ARN: arn:aws:iam::731589008417:role/role-lambda

Maximum session duration: 1 hour

Permissions

Trust relationships

Tags

Access Advisor

Revoke sessions

Permissions policies (1)

You can attach up to 10 managed policies.

Filter policies by property or policy name and press enter.

Policy name

Type

Description

policy_lambda

Customer managed

policy_lambda

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Sid": "VisualEditor0",
6       "Effect": "Allow",
7       "Action": [
8         "logs:DisassociateKmsKey",
9         "logs>DeleteSubscriptionFilter",
10        "logs:UntagLogGroup",
```

I can see the logs inside CloudWatch -> Log groups :

CloudWatch > Log groups > /aws/lambda/lambda-s3 > 2022/09/24/[\$LATEST]af9450fd63074e55a0b7d559391db776

Log events

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#)

Filter events

Timestamp	Message
	No older events at this moment. Retry
2022-09-24T16:32:40.581+03:00	Loading function
2022-09-24T16:32:40.711+03:00	START RequestId: a288ed94-ffb5-4bce-b8a2-47eac139ad87 Version: \$LATEST
2022-09-24T16:32:40.712+03:00	ObjectCreated:Put
2022-09-24T16:32:40.919+03:00	['1020']
2022-09-24T16:32:40.919+03:00	CONTENT TYPE: text/plain
2022-09-24T16:32:40.919+03:00	This Email Represent a File Status has been Changed in One of Your Bucket
2022-09-24T16:32:40.919+03:00	BUCKET NAME: lambdabuckets3
2022-09-24T16:32:40.919+03:00	FILE NAME: shadi.txt
2022-09-24T16:32:40.919+03:00	OPERATION: ObjectCreated:Put

I've print only the number inside the file as requested

The file original file :

← → ↺ 🔒 lambdabuckets3.s3.us-east-1.amazonaws.com/shadi.txt?response-content-disposition=inline&X-Amz-Security-Token=IQoJb3Jp

```
hello world 1020
```

Created SNS that publish a message and trigger the Lambda :

Amazon SNS

Dashboard
Topics
Subscriptions
Mobile
Push notifications
Text messaging (SMS)
Origination numbers

Amazon SNS > Topics > topic-lambda

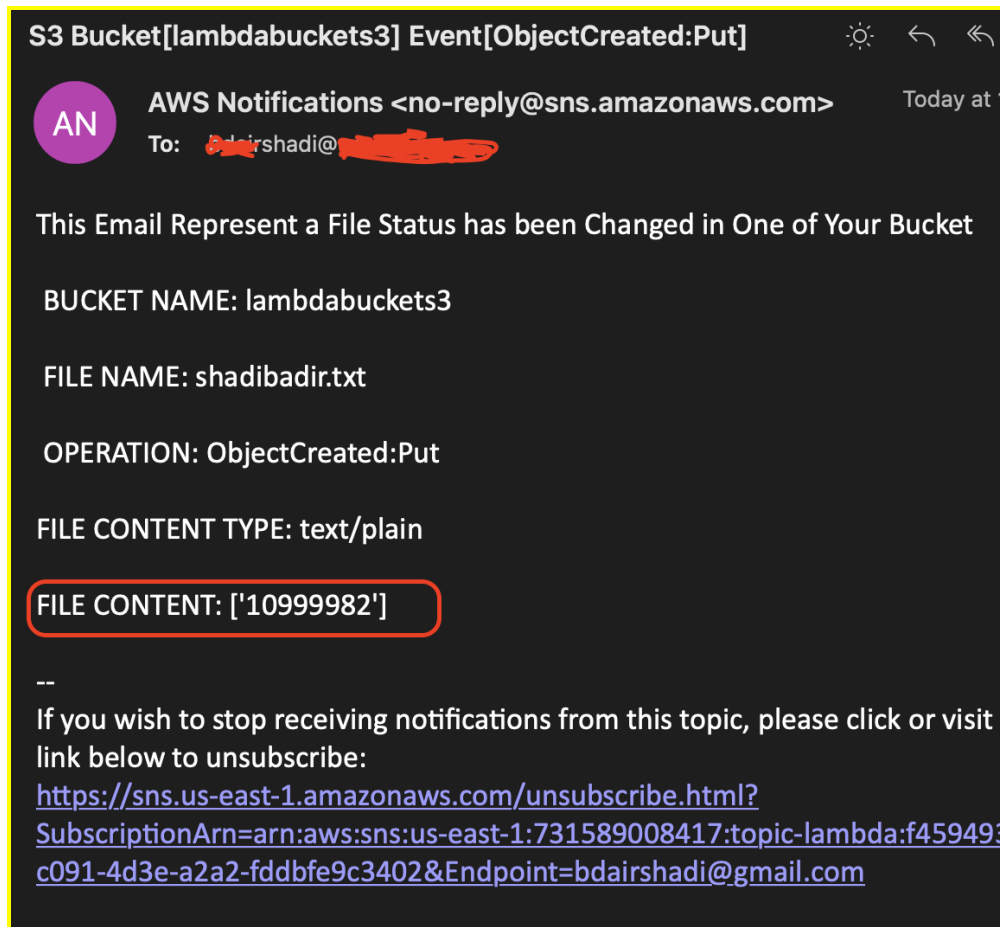
topic-lambda

Edit Del

Details

Name	topic-lambda	Display name	-
ARN	arn:aws:sns:us-east-1:731589008417:topic-lambda	Topic owner	731589008417
Type	Standard		

Once I've upload a file I've got also an email with the number that we have inside the file :



Thanks,
Shadi Badir