Snowflake External Function using AWS Lambda - A “Hello World” example

Reference : <https://docs.snowflake.com/en/sql-reference/external-functions-creating-aws.html>

1. Create Lamda function

import json

def lambda\_handler(event, context):

# TODO implement

array\_of\_rows\_to\_return = [ ]

output\_value = ["Hello", "IntegritD"]

row\_to\_return = [0, output\_value]

array\_of\_rows\_to\_return.append(row\_to\_return)

json\_compatible\_string\_to\_return = json.dumps({"data" : array\_of\_rows\_to\_return})

return {

'statusCode': 200,

'body': json\_compatible\_string\_to\_return

}

Note: External function expects JSON Array from Lambda function. So return a JSON Array. This function does not take input parameters, return {“Hello” , “IntegritD”}

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1. Test it in Lambda console

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1. Create an IAM Role name “MyHelloWorldRole” with Administrator Access

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1. Create REST API to call Lambda function

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1. Create Resource PolicyA screenshot of a cell phone

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2. Deploy API
3. Create Integration Object in Snowflake

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1. Setup the “Trusted Relationship” between Snowflake and IAM

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See step 7 for getting the Principal & External ID

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1. Create External Function

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1. Call External Function

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