Week 4 Sunday – Taibah Valley – Task 7 – Lambda Function
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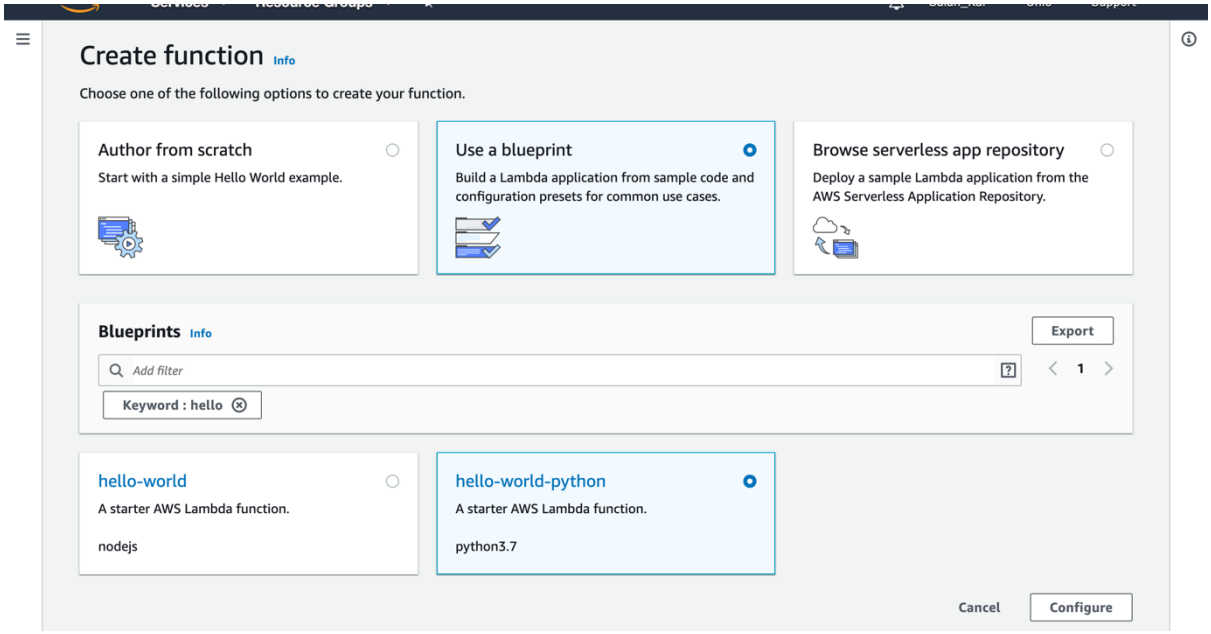
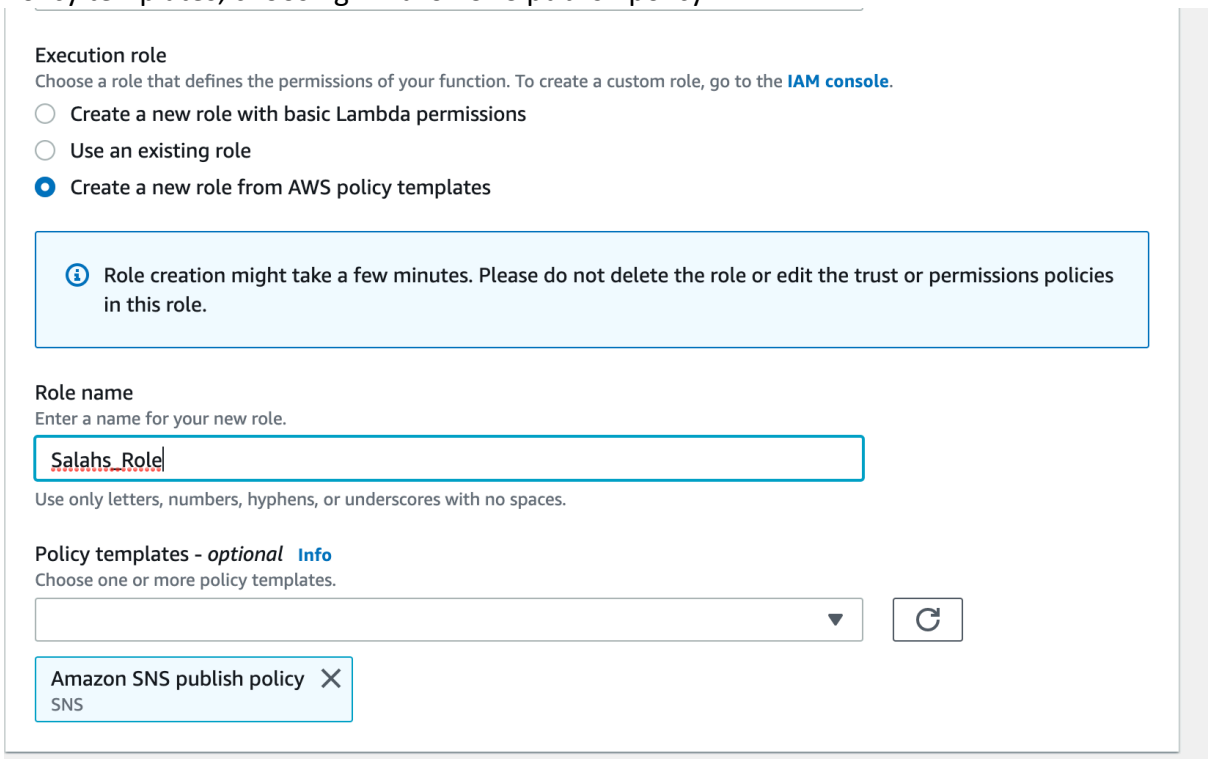
28th of June 2020

1 – Creating a lambda function [Choosing the hello-world-python blueprint]



2 - Creating a new role from AWS policy templates. Choosing a name for the role. From Policy templates, choosing Amazon SNS publish policy.

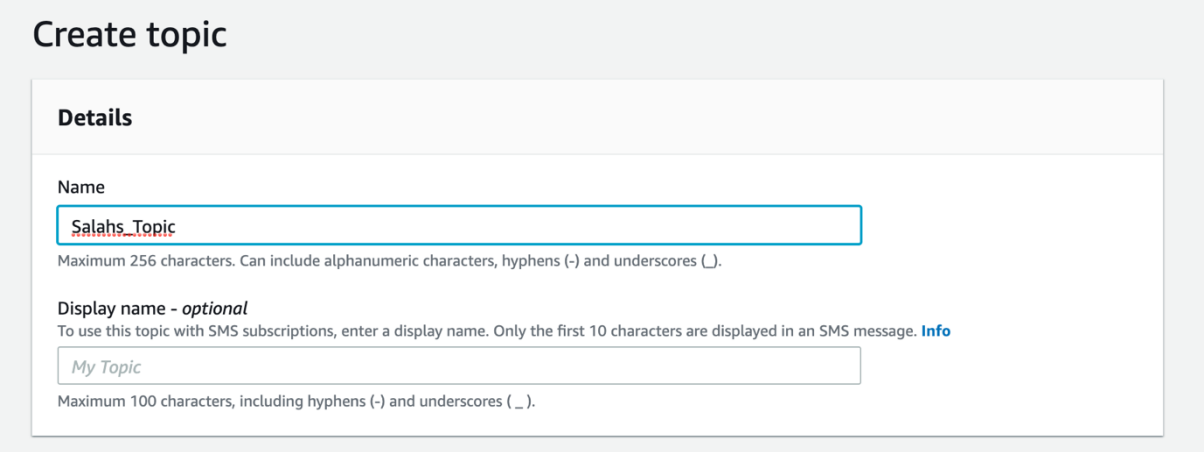


3 – Applying the provided example code

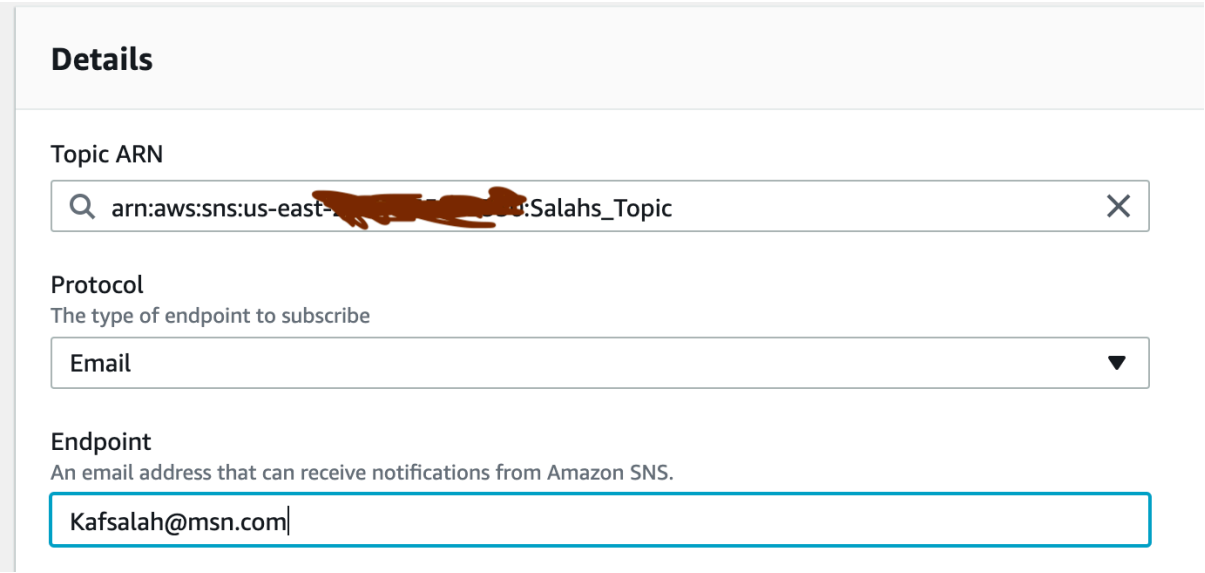
```
from __future__ import print_function

import json
import boto3

print('Loading function')

def lambda_handler(event, context):

    # Parse the JSON message
    eventText = json.dumps(event)

    # Print the parsed JSON message to the console. You can view this text in the Monitoring tab in the AWS Lambda console or in the Amazon CloudWatch Logs console.
    print('Received event: ', eventText)

    # Create an SNS client
    sns = boto3.client('sns')

    # Publish a message to the specified topic
    response = sns.publish (
      TopicArn = 'arn:aws:iam::123456789012:My_IoT_SNS_Topic',
      Message = eventText
    )

    print(response)
```

The code highlighted in red will be changed

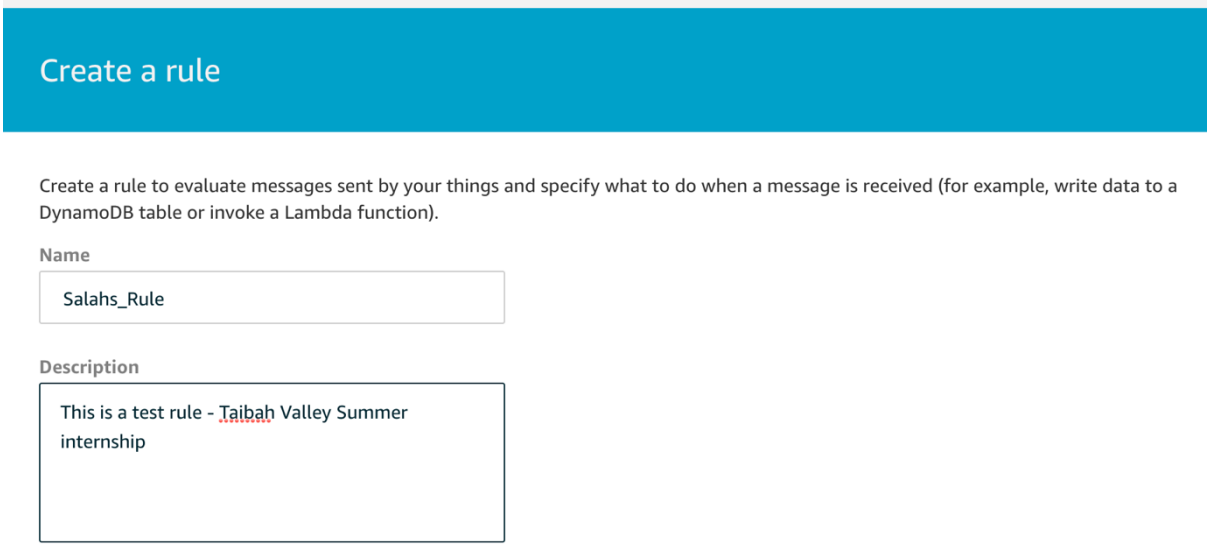
4 – Creating an SNS topic



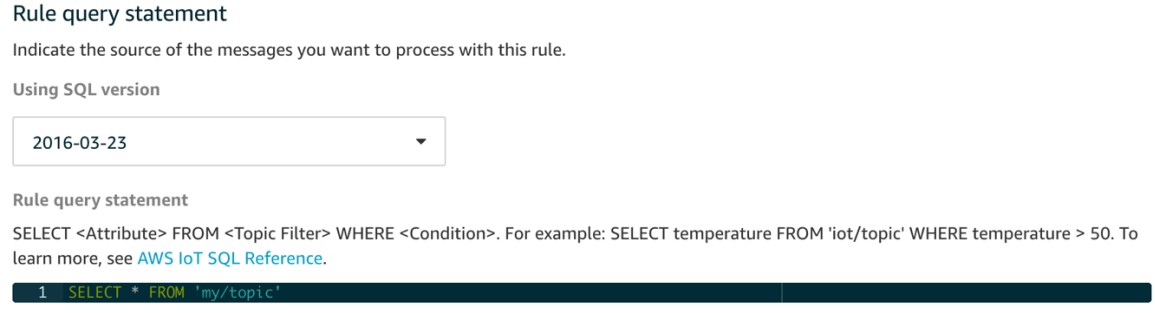
5 – Subscribing to an SNS topic and choosing Email as a service



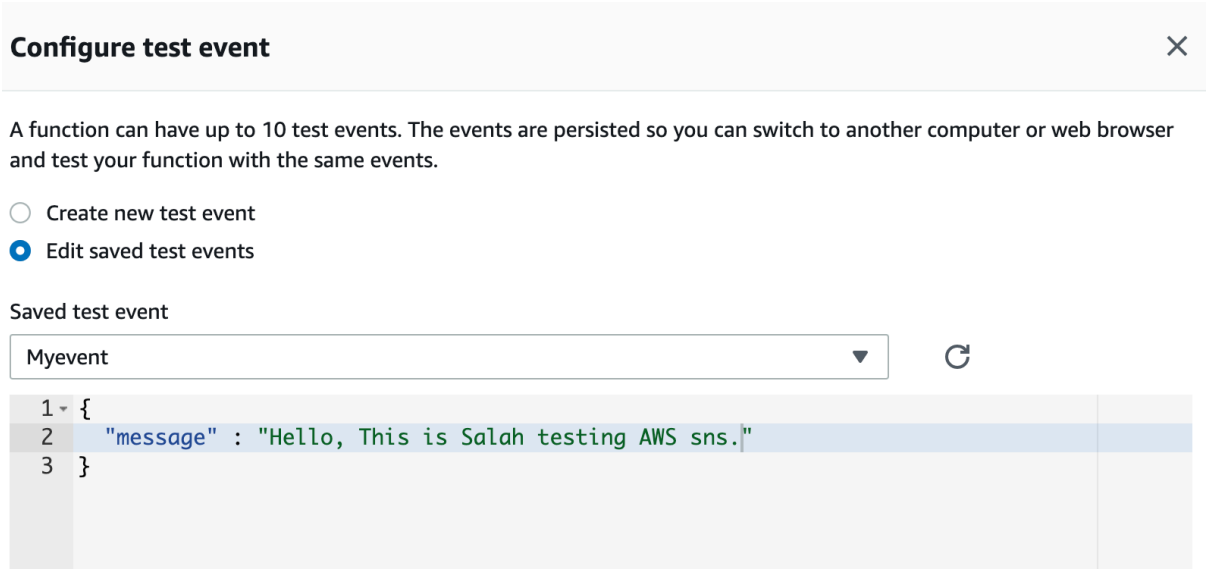
6 – Creating A rule



9 – Entering In the Rule query statement field, [SELECT * FROM 'my/topic']
“ SELECT * specifies that you want to send the entire MQTT message that triggered the rule. FROM 'my/topic' is the topic filter. The rules engine uses the topic filter to determine which rules to trigger when an MQTT message is received.”



10 – Configure the test event



11 – Receiving the test message via E-mail