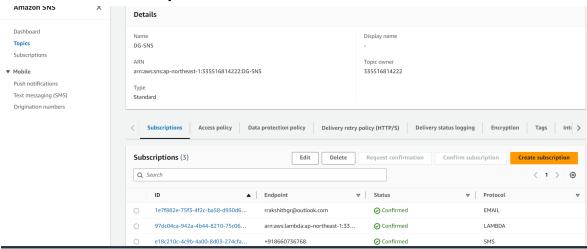
SNS



import json import boto3



- ->with my email-id,phone number and lambda function named getsnsmessage as the subscribers.
- ->getsnsmessage lambda function will print the message and subject data and store it in cloudwatch logs.

```
import time

def lambda_handler(event, context):
    logs = boto3.client('logs')
    message=event['Records'][0]['Sns']['Subject']
    subject=event['Records'][0]['Sns']['Message']
    print("message:",message)
    print("subject:",subject)

LOG_GROUP='getsnsmessage007'
    LOG_STREAM='getsnsmessagestream007'
    logs.create_log_group(logGroupName=LOG_GROUP)
```

timestamp = int(round(time.time() * 1000))

logStreamName=LOG_STREAM)

logs.create_log_stream(logGroupName=LOG_GROUP,

```
response = logs.put_log_events(
                                             logGroupName=LOG_GROUP,
                                             logStreamName=LOG_STREAM,
                                             logEvents=[
                                                     'timestamp': timestamp,
                                                     'message': message
                                                 }
                                         response = logs.put_log_events(
                                             logGroupName=LOG_GROUP,
                                             logStreamName=LOG_STREAM,
                                             logEvents=[
                                                 {
                                                     'timestamp': timestamp,
                                                     'message': subject
                                                 }
 CloudWatch
                              {\sf CloudWatch} \ \ > \ \ Log\ groups \ \ > \ \ \ / aws/lambda/getsnsmessage \ \ > \ \ \ 2023/03/02/[\$LATEST]ef13044ad29548a58f4ebc4d2ab9d302
 Favorites and recents
                                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 🗷
 Dashboards
                                C Actions ▼ Create metric filter
▶ Alarms
             ▲8 ⊘24 ⊙0
                                                                                                       Clear 1m 30m 1h 12h Custom ⊞ Display ▼
                                Q Filter events
▼ Logs
                                ▶ Timestamp
                                                                  Message
 Logs Insights
                                                                  No older events at this moment. Retry
▶ Metrics
                               2023-03-03701:13:44.269+05:30 INIT_START Runtime Version: python:3.8.v15 Runtime Version ARN: ann:aus:lambda:ap-northeast-1::runtime:a20b0c8ab6d995b99d2e883d98c3354.
                                      2023-03-03T01:13:44.518+05:30
                                                                   START RequestId: 1e98b039-10ab-4009-aaca-0f422819a136 Version: $LATEST
▶ X-Ray traces
                                     2023-03-03T01:13:45.285+05:30
                                                                  message: lambda function
▶ Events
                                                                                                                                                               Сору
▶ Application monitoring
                                      2023-03-03T01:13:45.285+05:30
                                                                  subject: text from lambda
▶ Insights
                                                                                                                                                               Сору
                                ▶ 2023-03-03T01:13:45.664+05:30 END RequestId: 1e98b039-10ab-4009-aaca-0f422819a136
 Getting Started
                                      2023-03-03T01:13:45.664+05:30
                                                                   REPORT RequestId: 1e98b039-10ab-4009-aaca-0f422819a136 Duration: 1146.48 ms Billed Duration: 1147 ms Memory Size: 128 MB Max Memory Us…
                                                                  No newer events at this moment. Auto retry paused. Resume
```

-> the above image has the message and subject data and store it in cloudwatch logs.

-> other lambda function named- publishmessage -will use boto3 to publish new messages to the SNS topic.

import json import boto3

def lambda_handler(event, context):
 sns = boto3.client("sns")
 response = sns.publish(
 TopicArn='arn:aws:sns:ap-northeast-1:335516814222:DG-SNS',
 Message='text from lambda',
 Subject='lambda function',
 MessageStructure='string')