

Subscribe and Unsubscribe from Topic

1. Now we are moving to the last phase of our SNS topic labs. In this lab, we will subscribe and unsubscribe to the SNS topic using AWS SDK.
2. After that we are going to create 4 files in the folder with the same name as you can see below.

```
⌚; subscribeconfirm.js  
⌚; subscribelist.js  
⌚; subscribetopic.js  
⌚; unsubscribetopic.js
```

3. You can use the same code as you can see below. In this code, you just need to change the Topic ARN and, in the endpoint, change your email address.
4. Then just run this file in your SDK.

```
⌚; subscribetopic.js X ⌚; subscribeconfirm.js ⌚; subscribelist.js ⌚; unsubscribetopic.js  
⌚; subscribetopic.js > ...  
1  import { SubscribeCommand } from "@aws-sdk/client-sns";  
2  import { snsClient } from "./snsClient.js";  
3  
4  const params = {  
5      Protocol: "email",  
6      TopicArn: "arn:aws:sns:us-east-1:878893308172:new-topic",  
7      Endpoint: "tegivej747@gitated.com"  
8  };  
9  
10 export const run = async () => {  
11     try {  
12         const data = await snsClient.send(new SubscribeCommand(params));  
13         console.log("Success", data);  
14     } catch (err) {  
15         console.log("Error", err);  
16     }  
17 };  
18 run();|
```

5. Here you can see that we have subscribed and we just need to confirm the subscription.

```

PS D:\AWS Serveless\Amazon SNS - Developing with AWS SDK> node .\subscribetopic.js
Success {
  '$metadata': {
    httpStatusCode: 200,
    requestId: '7e211356-2ab9-53b6-aa39-4ce303aafa31',
    extendedRequestId: undefined,
    cfId: undefined,
    attempts: 1,
    totalRetryDelay: 0
  },
  SubscriptionArn: 'pending confirmation'
}
PS D:\AWS Serveless\Amazon SNS - Developing with AWS SDK>

```

- For that we need to go to our Email and click on the confirm subscription button.

AN AWS Notifications Date: 18-11-2024 17:06:52

no-reply@sns.amazonaws.com

Subject: AWS Notification - Subscription Confirmation

You have chosen to subscribe to the topic:
arn:aws:sns:us-east-1:878893308172:new-topic

To confirm this subscription, click or visit the link below (If this was in error no action is necessary):
Confirm subscription

Please do not reply directly to this email. If you wish to remove yourself from receiving all future SNS subscription confirmation requests please send an email to [sns-opt-out](#)

Subscriptions						Access policy	Data protection policy	Delivery policy (HTTP/S)	Delivery status logging	Encryption	Tags								
Subscriptions (1)						Edit	Delete	Request confirmation	Confirm subscription	Create subscription									
<table border="1"> <thead> <tr> <th>ID</th> <th>Endpoint</th> <th>Status</th> <th>Protocol</th> </tr> </thead> <tbody> <tr> <td>5359daa1-e8bb-4570-a5a0-9b5...</td> <td>tegivej747@gitated.com</td> <td> Confirmed</td> <td>EMAIL</td> </tr> </tbody> </table>												ID	Endpoint	Status	Protocol	5359daa1-e8bb-4570-a5a0-9b5...	tegivej747@gitated.com	Confirmed	EMAIL
ID	Endpoint	Status	Protocol																
5359daa1-e8bb-4570-a5a0-9b5...	tegivej747@gitated.com	Confirmed	EMAIL																

- Once you have subscribed then move to the subscribe list file and run this after changing the topic ARN.

```

①: subscribelist.js > [✖] params > ↴ TopicArn
1   import { ListSubscriptionsByTopicCommand } from "@aws-sdk/client-sns";
2   import { snsClient } from "./snsClient.js";
3
4   const params = {
5     TopicArn: "arn:aws:sns:us-east-1:878893308172:new-topic"
6   };
7
8   export const run = async () => {
9     try {
10       const data = await snsClient.send(new ListSubscriptionsByTopicCommand(params));
11       console.log("Success", data);
12     } catch (err) {
13       console.log("Error", err);
14     }
15   };
16   run();

```

8. Below you can see that we have successfully list the subscription from SNS.

```

● PS D:\AWS Serveless\Amazon SNS - Developing with AWS SDK> node .\subscribelist.js
○ Success {
  '$metadata': {
    httpStatusCode: 200,
    requestId: 'fcc5f520-6c86-59dc-8b46-aa9555b35ea9',
    extendedRequestId: undefined,
    cfId: undefined,
    attempts: 1,
    totalRetryDelay: 0
  },
  Subscriptions: [
    {
      SubscriptionArn: 'arn:aws:sns:us-east-1:878893308172:new-topic:5359daa1-e8bb-4570-a5a0-9b5e1a77dfbc',
      Owner: '878893308172',
      Protocol: 'email',
      Endpoint: 'tegivej747@gitated.com',
      TopicArn: 'arn:aws:sns:us-east-1:878893308172:new-topic'
    }
  ]
}
PS D:\AWS Serveless\Amazon SNS - Developing with AWS SDK> █

```

9. Now we are going to publish the message. For that, we can use our publish file and run it. We can see that our message has been published successfully.

```

● PS D:\AWS Serveless\Amazon SNS - Developing with AWS SDK> node .\publishtopic.js
○ Success {
  '$metadata': {
    httpStatusCode: 200,
    requestId: 'edf31d58-2809-56da-80e6-42ed1177f03b',
    extendedRequestId: undefined,
    cfId: undefined,
    attempts: 1,
    totalRetryDelay: 0
  },
  MessageId: 'e214bf0e-1542-56c2-a390-e0bb2c3cc023'
}

```

10. If we go to email and check for the published message then we can see it.

 AN

AWS Notifications
no-reply@sns.amazonaws.com

Date:

18-11-2024 18:16:55

Subject: AWS Notification Message

Example publish command message

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If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:

<https://sns.us-east-1.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-east-1:878893308172:new-topic:5359daa1-e8bb-4570-a5a0-9b5e1a77dfbc&Endpoint=tgeivej747@gitated.com>

Please do not reply directly to this email. If you have any questions or comments regarding this email, please contact us at <https://aws.amazon.com/support>

11. The only thing left is for us to unsubscribe from SNS. Open your unsubscribe topic file and run this after changing the Subscription ARN which you can get by running the list subscription file.

```
①: unsubscribetopic.js > [o] params > ↴ SubscriptionArn
1 import { UnsubscribeCommand } from "@aws-sdk/client-sns";
2 import { snsClient } from "./snsClient.js";
3
4 const params = [
5   SubscriptionArn: "arn:aws:sns:us-east-1:878893308172:new-topic:5359daa1-e8bb-4570-a5a0-9b5e1a77dfbc"
6 ];
7
8 export const run = async () => {
9   try {
10     const data = await snsClient.send(new UnsubscribeCommand(params));
11     console.log("Success", data);
12   } catch (err) {
13     console.log("Error", err);
14   }
15 };
16 run();
```

12. We got the status code 200 which means that we have completed the lab.

```
● PS D:\AWS Serveless\Amazon SNS - Developing with AWS SDK> node .\unsubscribetopic.js
Success {
  '$metadata': {
    httpStatusCode: 200,
    requestId: 'df653107-56e7-5dce-b062-6eb26ce578d2',
    extendedRequestId: undefined,
    cfId: undefined,
    attempts: 1,
    totalRetryDelay: 0
  }
}
```

[**Subscriptions**](#) | [Access policy](#) | [Data protection policy](#) | [Delivery policy \(HTTP/S\)](#) | [Delivery status logging](#) | [Encryption](#) | [Tags](#) | >

Subscriptions (0)

[Edit](#) | [Delete](#) | [Request confirmation](#) | [Confirm subscription](#) | [Create subscription](#)

< 1 > ⚙

ID	Endpoint	Status	Protocol
No subscriptions found You don't have any subscriptions to this topic.			

[Create subscription](#)