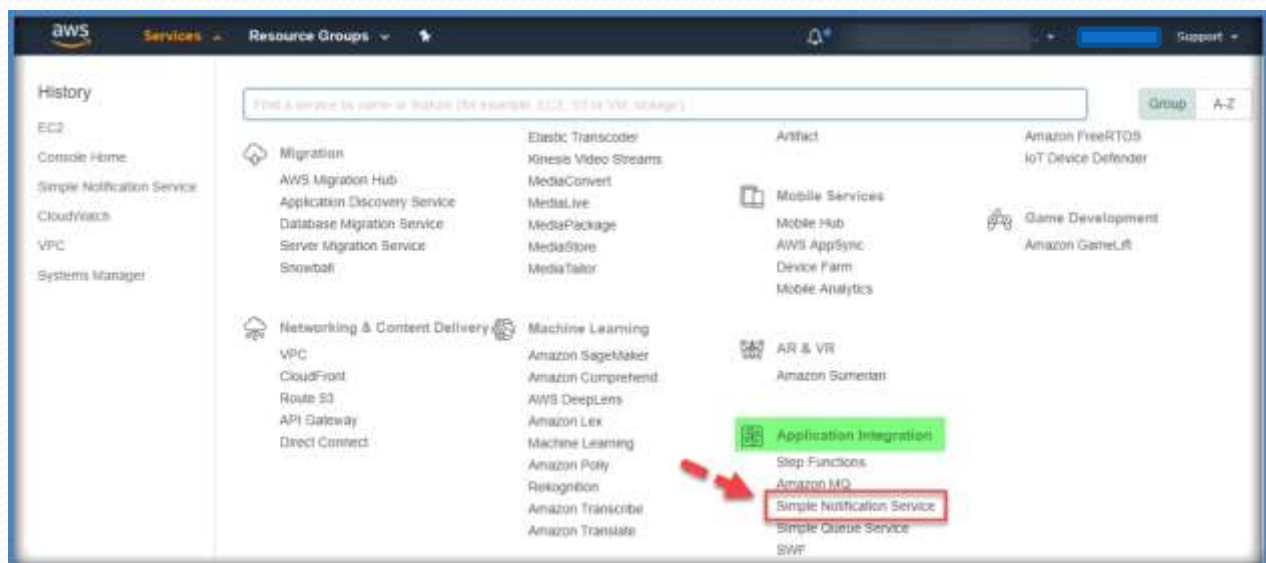


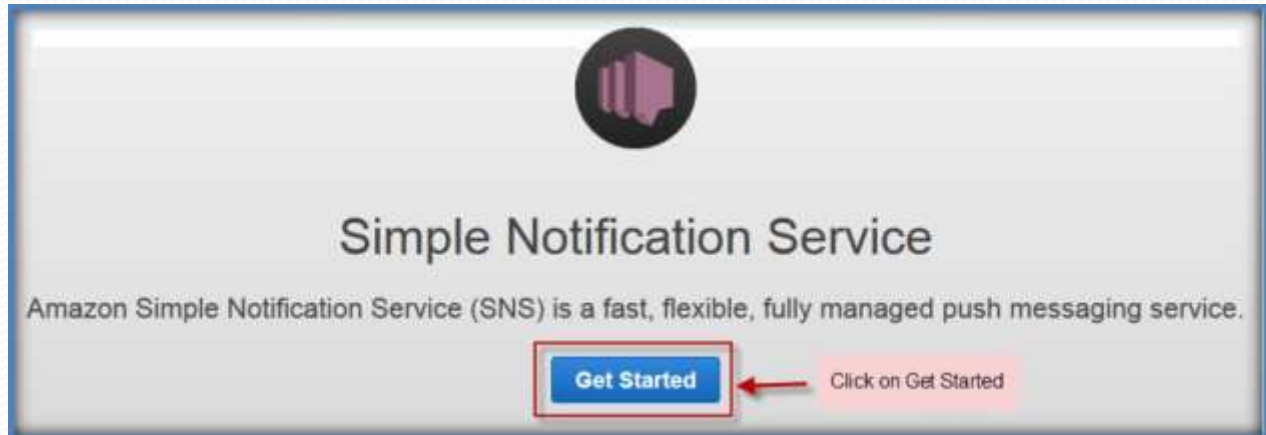
15. SIMPLE NOTIFICATION SERVICE

- **Amazon Simple Notification Service or SNS** provides a simple way to notify applications or people from the cloud by creating topics and using a publish subscribe protocol.
- SNS allows you to publish messages from within an application or directly from the console, and immediately deliver those via several protocols.
- These messages are published to a centralized topic. Then, subscribers to this topic receive the messages.
- It is typically used in cases, or you want the same single message to be sent to many subscribers.
- One very basic but also quite conic example is alerting your operations team of an issue in your production system.
- You can monitor your system components using CloudWatch and set up an alarm to be raised based on some event.

After logged in to AWS, click on Simple Notification Service under Application Integration section on AWS console page.



In the next page, click on Get Started to start using SNS.



In next window, click on Create Topic to create a new one.



In the next window, specify a name for new topic, and add a display name then click on Create Topic.

Create new topic

A topic name will be used to create a permanent, unique Resource Name (ARN).

Topic name Demo-Topic ⓘ

Display name Demo-Topic ⓘ

Specify a Topic Name

Add a Display Name

Cancel Create topic

In the next page you can see a confirmation saying topic has successfully created. With below showing options, copy the Topic ARN for next task.

Topic Details: Demo-Topic

Publish to topic Other topic actions ▾

Topic ARN	arn:aws:sns:ap-southeast-1:168600309204:Demo-Topic
Topic Owner	168600309204
Region	ap-southeast-1
Display name	Demo-Topic

SUBSCRIBE TO A TOPIC

To receive messages published to a topic, you have to subscribe an endpoint to that topic.

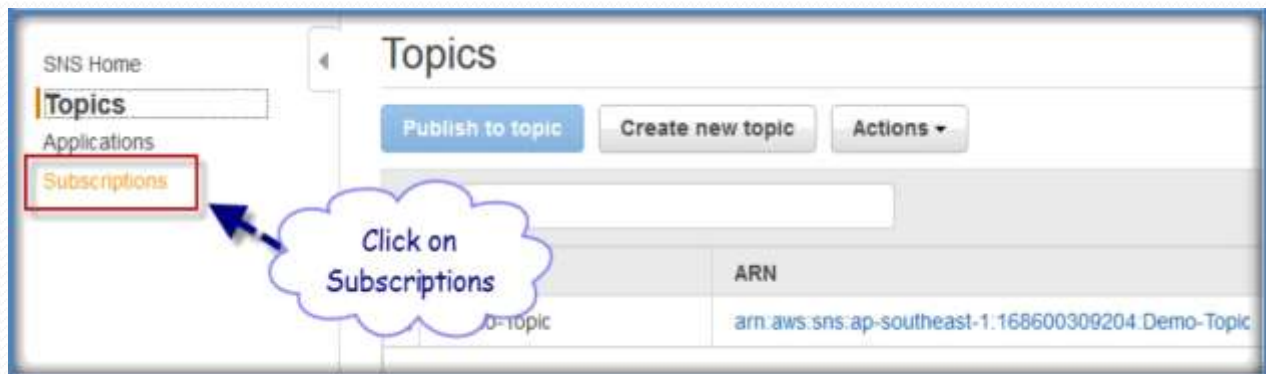
An endpoint is a mobile app, web server, email address, or an Amazon SQS queue that can receive notification messages from Amazon SNS.

Once you subscribe an endpoint to a topic and the subscription is confirmed, the endpoint will receive all messages published to that topic.

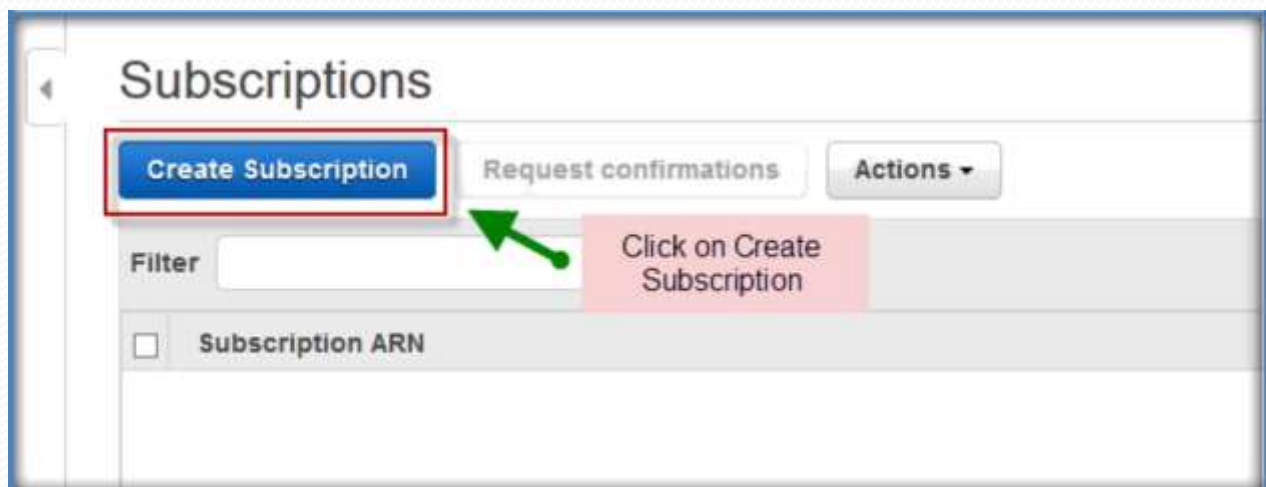
In this section you subscribe an endpoint to the topic you just created in the previous section.

You configure the subscription to send the topic messages to your email account.

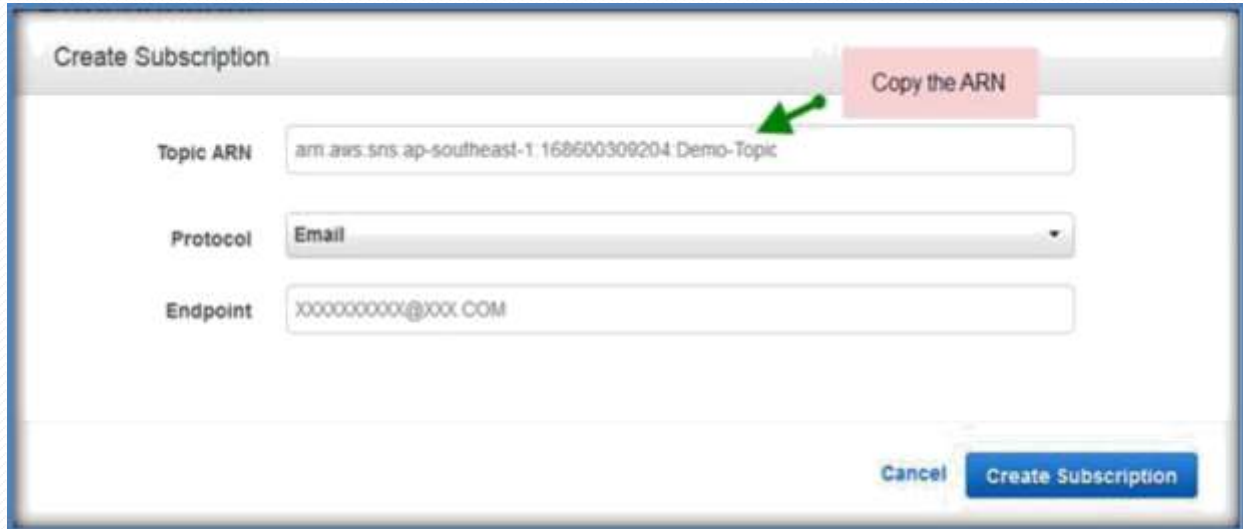
Go to **SNS** home page, Select Subscriptions from the left pane.



Once you are in the subscriptions page, click on Create Subscription to create a new one.

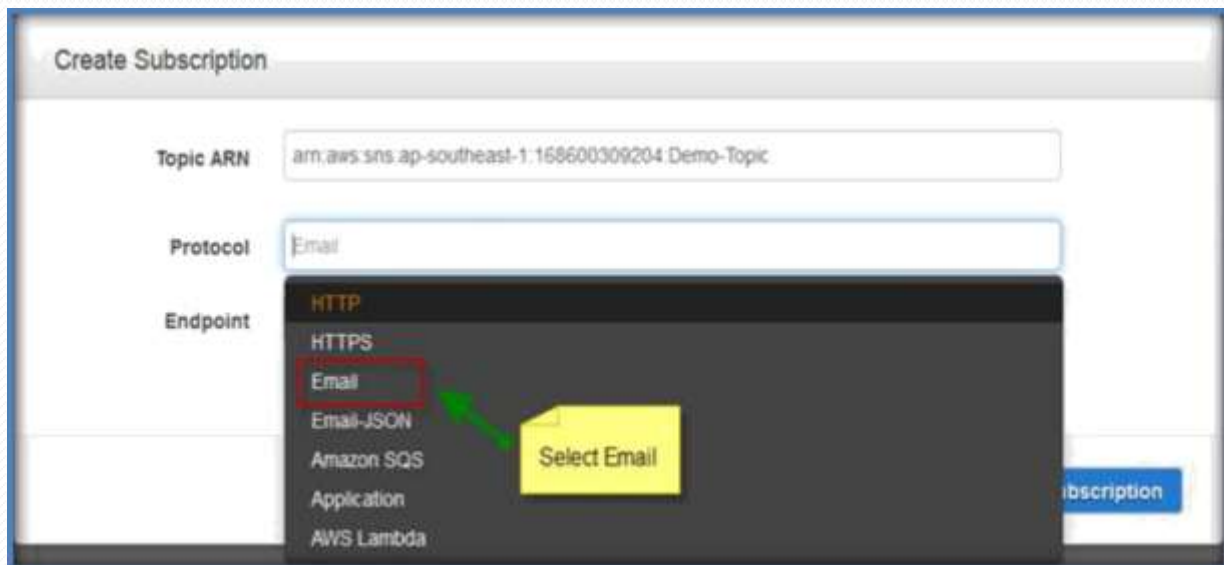


Paste the ARN which you have copied from newly created Topic in Topic ARN text field.



The screenshot shows the 'Create Subscription' form in the AWS SNS console. The 'Topic ARN' field is populated with 'arn:aws:sns:ap-southeast-1:168600309204:Demo-Topic'. A green arrow points from a 'Copy the ARN' button to the 'Topic ARN' field. The 'Protocol' dropdown menu is set to 'Email'. The 'Endpoint' field contains a placeholder email address 'XXXXXXXXXX@XXX.COM'. At the bottom right, there are 'Cancel' and 'Create Subscription' buttons.

Select Email from the Protocol drop down list.



The screenshot shows the 'Create Subscription' form with the 'Protocol' dropdown menu open. The dropdown list includes options: HTTP, HTTPS, Email, Email-JSON, Amazon SQS, Application, and AWS Lambda. The 'Email' option is highlighted with a red box, and a green arrow points to it from a yellow callout box labeled 'Select Email'. The 'Topic ARN' field remains the same. The 'Endpoint' field is partially visible. The 'Create Subscription' button is visible on the right.

Specify Email address in the Endpoint text field and click on Create Subscription.

Create Subscription

Topic ARN

Protocol

Endpoint

Specify an email

Cancel

Once created, subscription status is under Pending Confirmation.

Subscriptions

Create Subscription Request confirmations Actions

Filter

<input type="checkbox"/>	Subscription ARN	Proto...	Endpoint	Topic ARN
<input type="checkbox"/>	PendingConfirmation	email		arn:aws:sns:ap-southe...

You will receive an email for confirmation to the specified email address. Go and check the email and confirm the subscription. After confirmation only you can be able to receive the email notifications.

You have chosen to subscribe to the topic:
arn:aws:sns:ap-southeast-1:168600309204:Demo-Topic

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

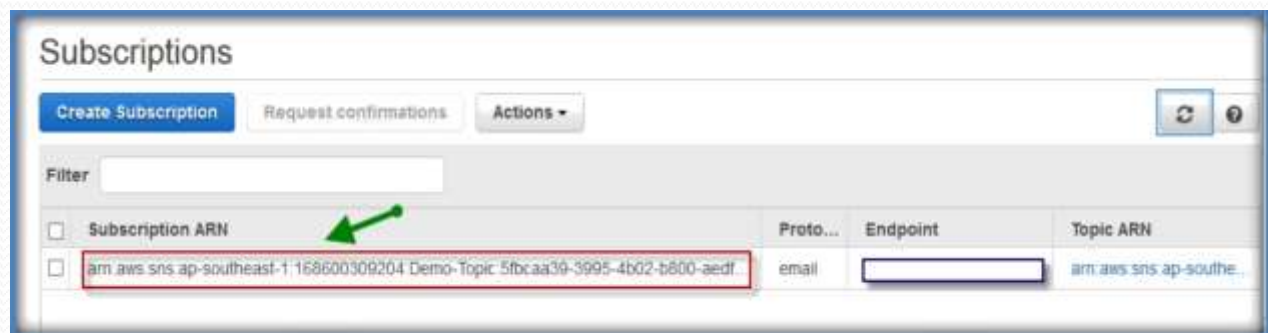
Click on Confirm

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](#)

Once you click on Confirm subscription, it will open a web page and displayed as Subscription confirmed.

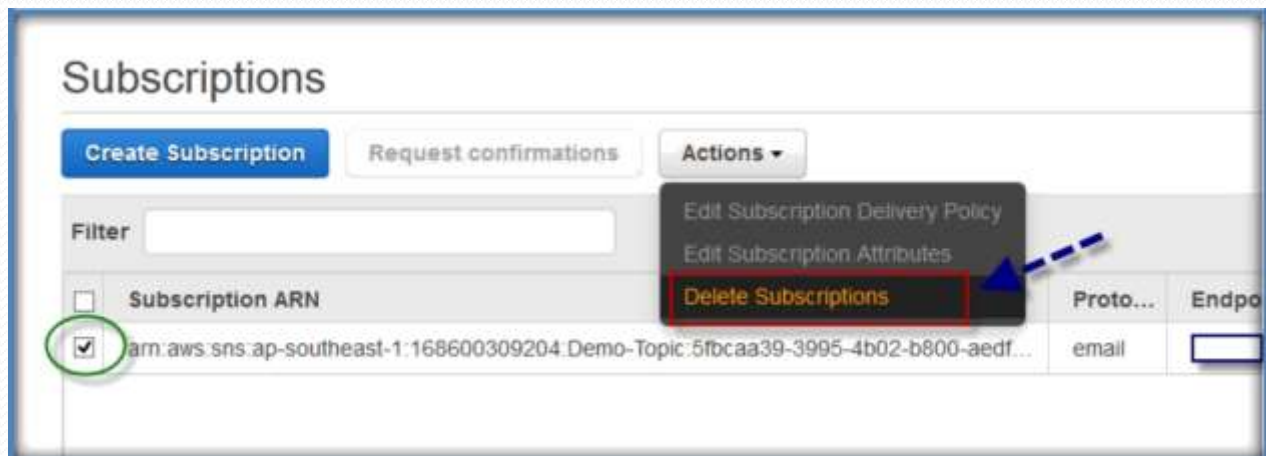


After confirmation, you can see the pending confirmation will vanish from the subscription page and will show topic ARN.

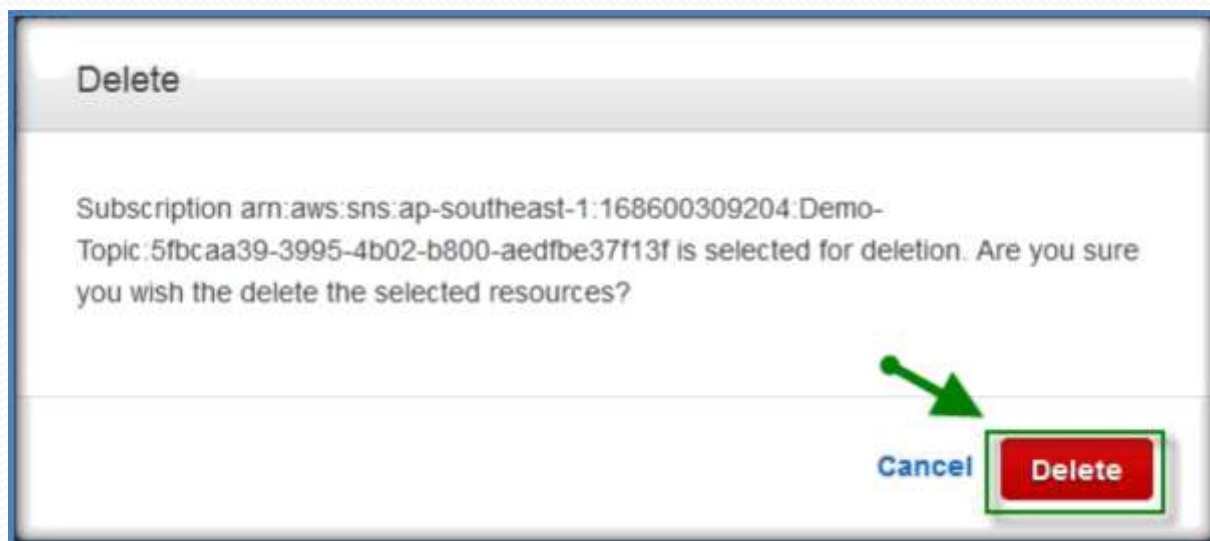


DELETING SUBSCRIPTION AND TOPIC

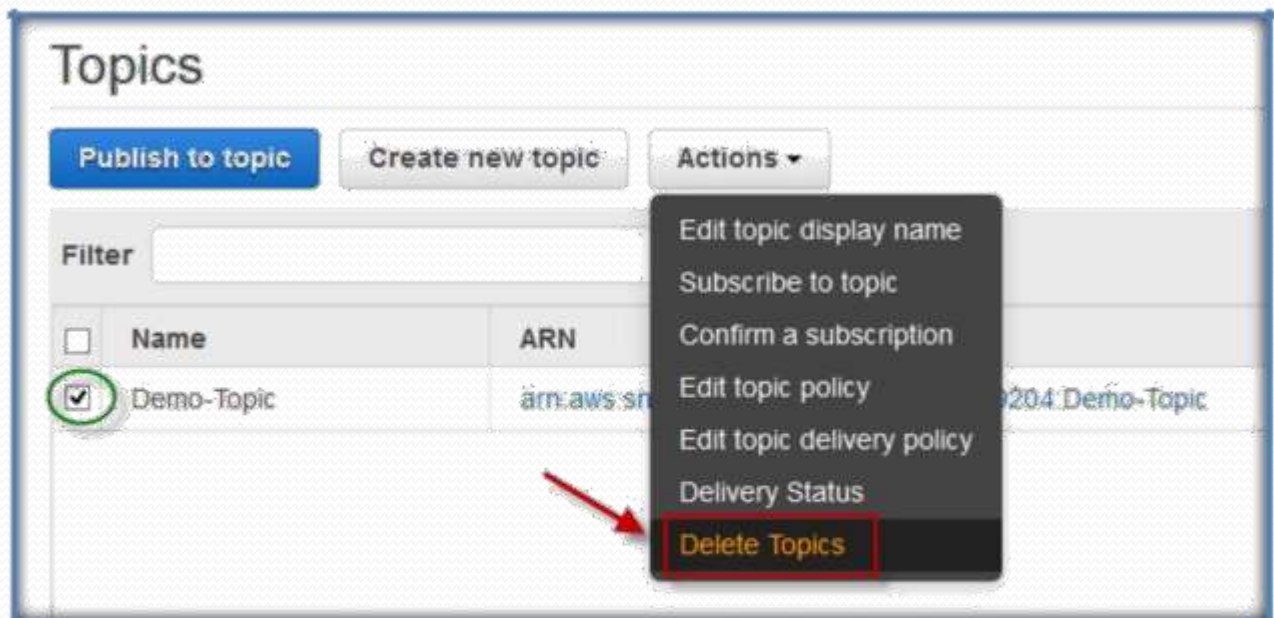
Go to subscription page under SNS page on AWS console.
Select subscription you want to delete and click on actions, under the actions select Delete Subscriptions.



In the next window, click on Delete to confirm the deletion.



Go to the topics tab under SNS home, select the topic and click on Actions.
Under actions, select delete topics to delete the selected topic.



In the next window, click on Delete confirm the Topic deletion.

