

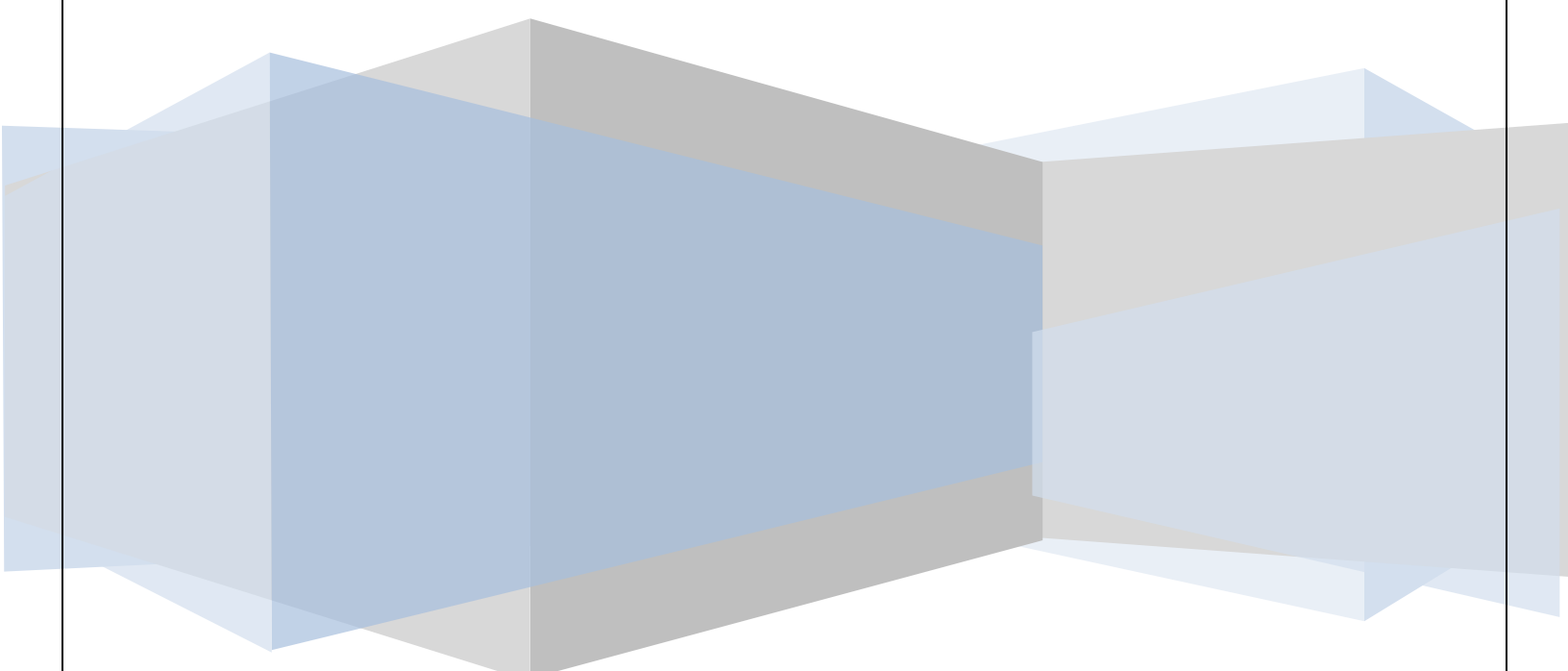


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AWS Cloud Training

SIMPLE NOTIFICATION SERVICE (SNS)



SIMPLE NOTIFICATION SERVICE

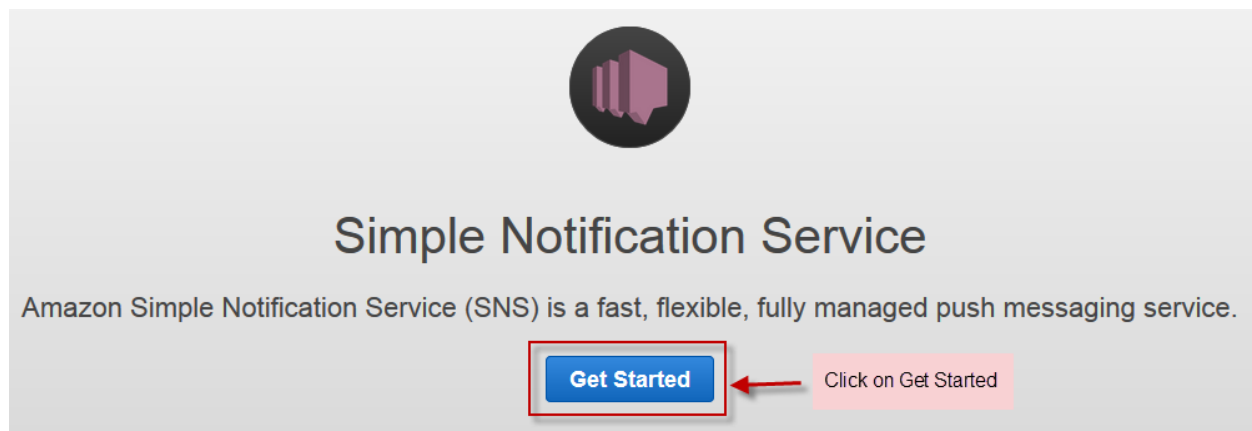
- **Amazon Simple Notification Service or SNS** provides a simple way to notify applications or people from the cloud by creating topics and using a publish subscribe protocol.
- SNS allows you to publish messages from within an application or directly from the console, and immediately deliver those 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 SNS under Mobile Services on AWS console page.

Amazon Web Services

Compute EC2 Virtual Servers in the Cloud EC2 Container Service Run and Manage Docker Containers Elastic Beanstalk Run and Manage Web Apps Lambda Run Code in Response to Events	Developer Tools CodeCommit Store Code in Private Git Repositories CodeDeploy Automate Code Deployments CodePipeline Release Software using Continuous Delivery	Internet of Things AWS IoT Connect Devices to the Cloud Game Development GameLift Deploy and Scale Session-based Multiplayer Games
Storage & Content Delivery S3 Scalable Storage in the Cloud CloudFront Global Content Delivery Network Elastic File System <small>PREVIEW</small> Fully Managed File System for EC2 Glacier Archive Storage in the Cloud Import/Export Snowball Large Scale Data Transport	Management Tools CloudWatch Monitor Resources and Applications CloudFormation Create and Manage Resources with Templates CloudTrail Track User Activity and A Config Track Resource Inventory and Changes OpsWorks Automate Operations with Chef Service Catalog Create and Use Standardized Products	Mobile Services Mobile Hub Build, Test, and Monitor Mobile Apps Cognito User Identity and App Data Synchronization Device Farm Test Android, FireOS, and iOS Apps on Real Devices in the Cloud Mobile Analytics Collect, View and Export App Analytics SNS Push Notification Service






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



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

SNS Home

Common actions

-  **Create Topic**  Click on Create Topic
Create a communication channel to send messages and subscribe to notifications
-  **Create Platform Application**
Create a platform application for mobile devices
-  **Create Subscription**
Subscribe an endpoint to a topic to receive messages published to that topic
-  **Publish Message**
Publish a message to a topic or as a direct publish to a platform endpoint

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

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.

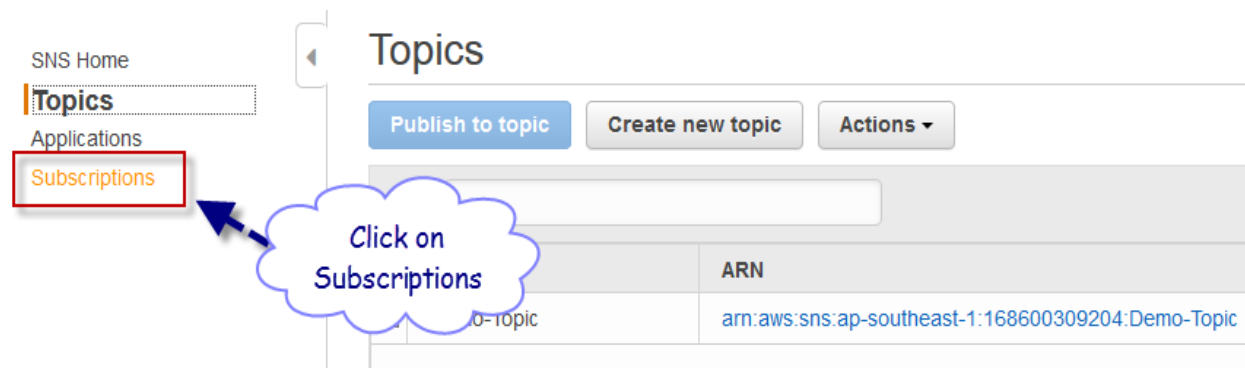
An endpoint is a mobile app, web server, email address, or an Amazon SQS queue that can receive notification messages from Amazon SNS.

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

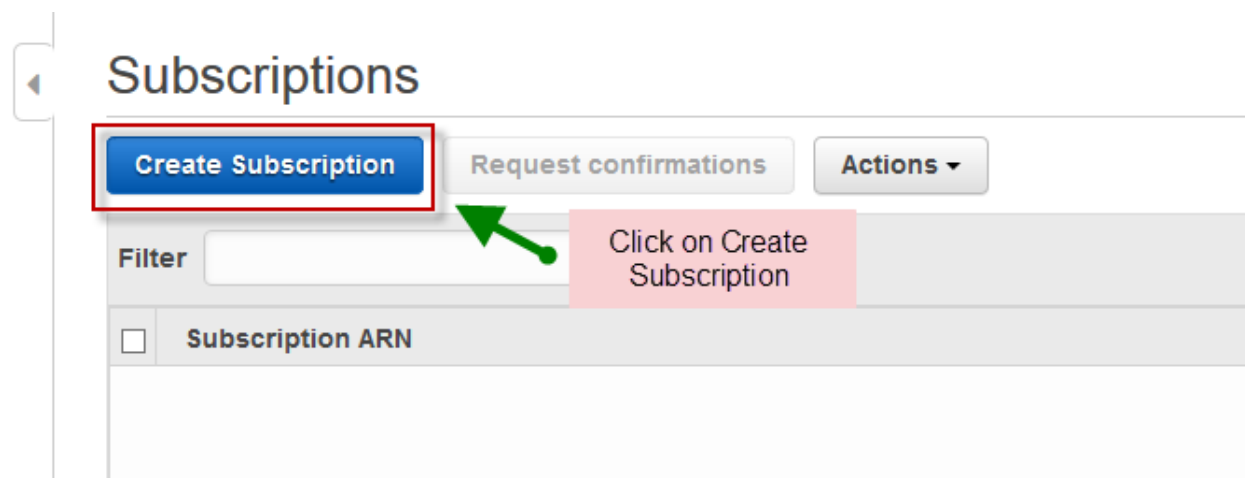
In this section you subscribe an endpoint to the topic you just created in the previous section.

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 filed.

Subscriptions

Create Subscription

Copy the ARN

Topic ARN: arn:aws:sns:ap-southeast-1:168600309204:Demo-Topic

Protocol: Email

Endpoint: XXXXXXXXXXXX@XXX.COM

Cancel Create Subscription

Select Email from the Protocol drop down list.

Subscriptions

Create Subscription

Topic ARN: arn:aws:sns:ap-southeast-1:168600309204:Demo-Topic

Protocol: Email

Endpoint:

HTTP
HTTPS
Email
Email-JSON
Amazon SQS
Application
AWS Lambda

Select Email

Create Subscription

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

Create Subscription

Topic ARN:

Protocol:

Endpoint:

Cancel **Create Subscription**

Specify an email

Once created, subscription status is under Pending Confirmation.

Subscriptions

Create Subscription Request confirmations Actions

Filter

	Subscription ARN	Proto...	Endpoint	Topic ARN
<input type="checkbox"/>	PendingConfirmation	email	XXXXXXXXXX@XXX.COM	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

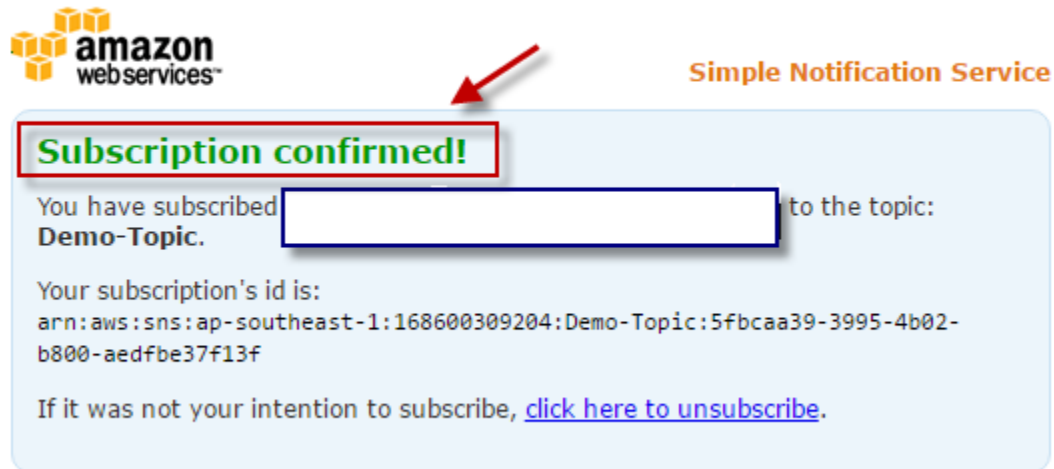
To confirm this subscription, click or visit the link below (If this was in error no action is necessary):

[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.



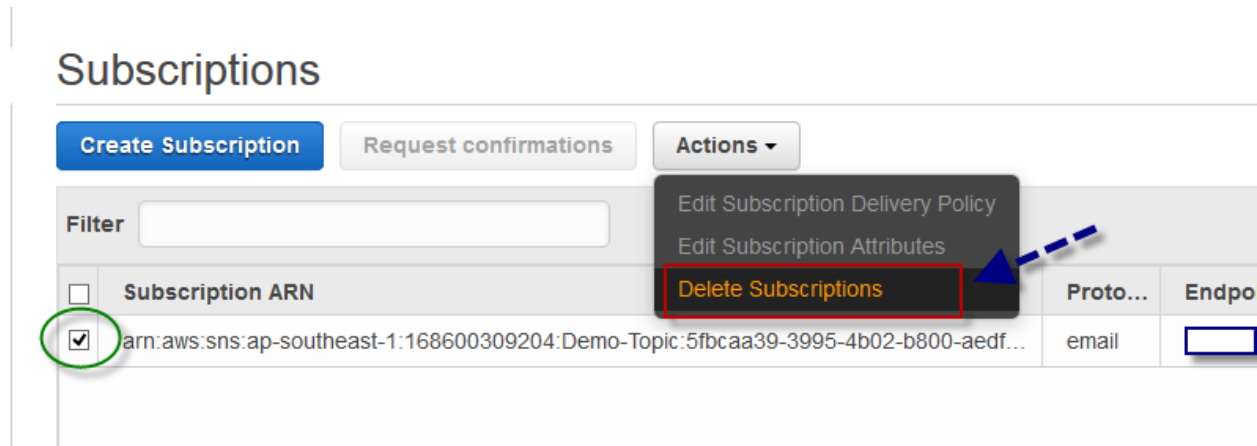
After confirmation, you can see the pending confirmation will vanish from the subscription page and will show topic ARN.

Subscriptions

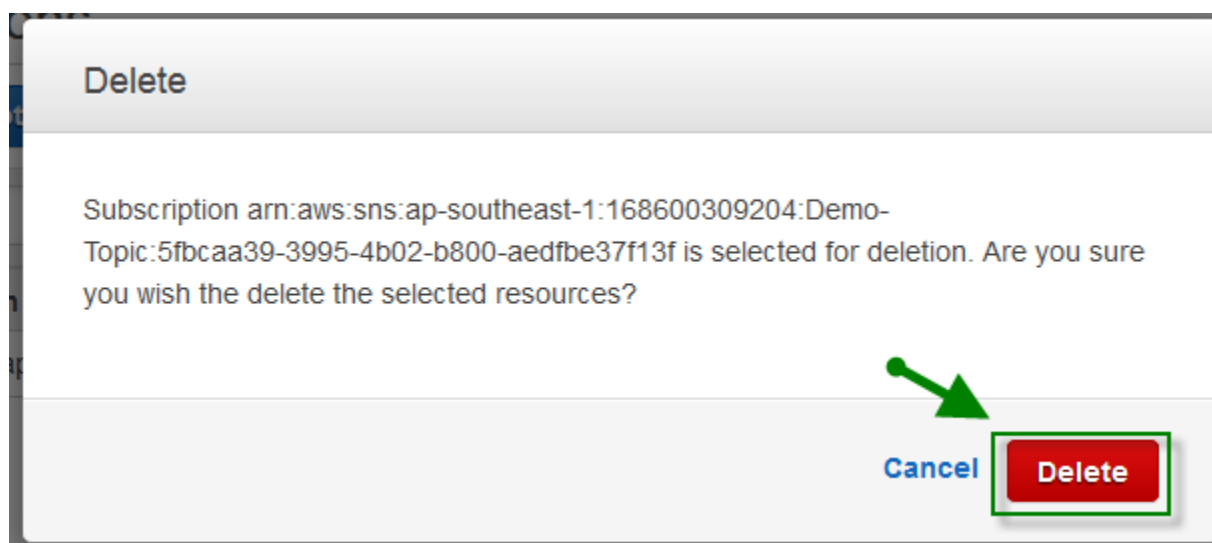
<div> <div>Create Subscription</div> <div>Request confirmations</div> <div>Actions ▾</div> <div> <div>↺</div> <div>?</div> </div> </div>				
Filter <input type="text"/>				
<input type="checkbox"/>	Subscription ARN	Proto...	Endpoint	Topic ARN
<input type="checkbox"/>	arn:aws:sns:ap-southeast-1:168600309204:Demo-Topic:5fbcaa39-3995-4b02-b800-aedf...	email	<input type="text"/>	arn:aws:sns:ap-southe...

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.

Topics

Publish to topic Create new topic Actions ▾

Filter

<input type="checkbox"/>	Name	ARN
<input checked="" type="checkbox"/>	Demo-Topic	arn:aws:sns:ap-southeast-1:168600309204:Demo-Topic

Edit topic display name
Subscribe to topic
Confirm a subscription
Edit topic policy
Edit topic delivery policy
Delivery Status
Delete Topics

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

Delete

Topic arn:aws:sns:ap-southeast-1:168600309204:Demo-Topic is selected for deletion. Are you sure you wish the delete the selected resources?

Cancel Delete