





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







Storage & Content Delivery

-  **S3**
Scalable Storage in the Cloud
-  **CloudFront**
Global Content Delivery Network
-  **Elastic File System** PREVIEW
Fully Managed File System for EC2
-  **Glacier**
Archive Storage in the Cloud
-  **Import/Export Snowball**
Large Scale Data Transport

Developer Tools

-  **CodeCommit**
Store Code in Private Git Repositories
-  **CodeDeploy**
Automate Code Deployments
-  **CodePipeline**
Release Software using Continuous Delivery

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






Internet of Things

-  **AWS IoT**
Connect Devices to the Cloud

Game Development

-  **GameLift**
Deploy and Scale Session-based Multiplayer Games

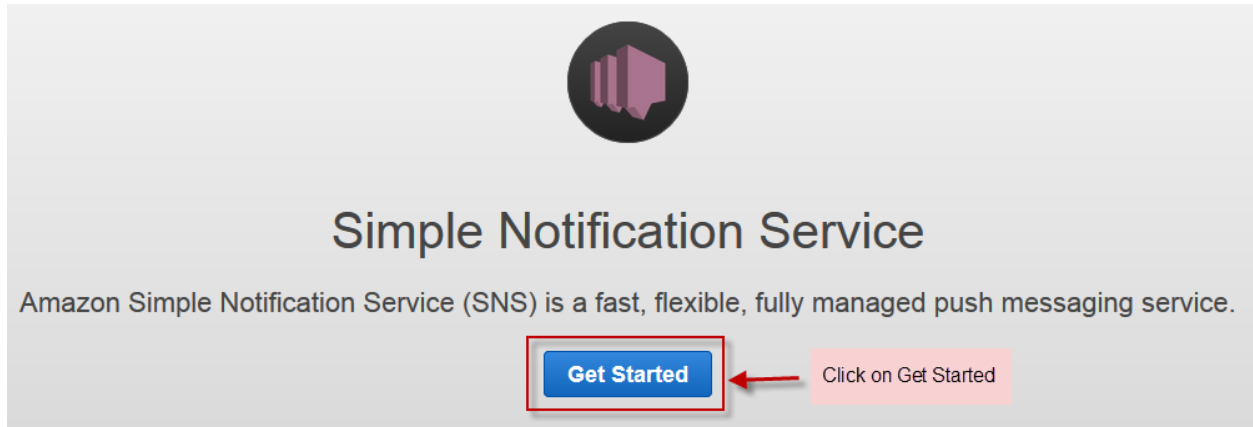
Mobile Services

-  **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

Click on SNS





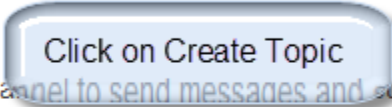



In the next page, click on Get Started to start using SNS.



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

SNS Home

Common actions

-  **Create Topic**  
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).

Specify a Topic Name

Topic name Demo-Topic ⓘ

Display name Demo-Topic ⓘ

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.

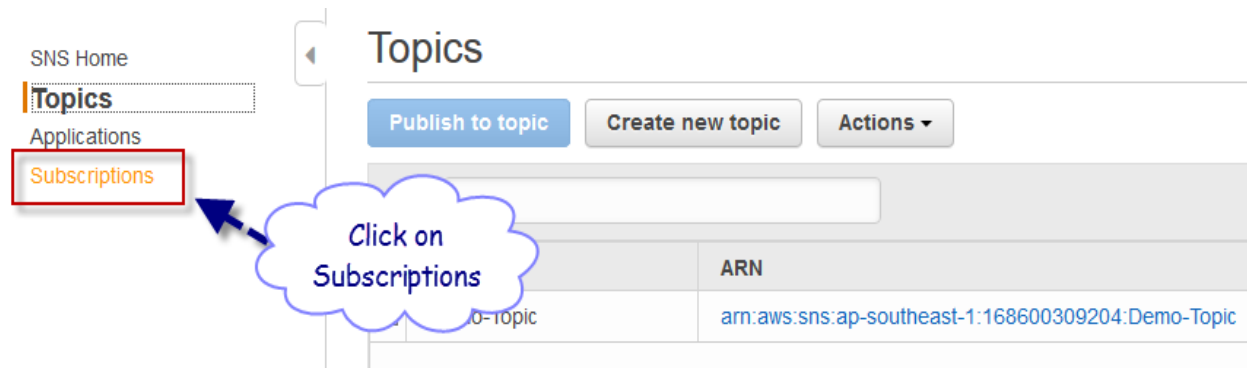
An endpoint is a mobile app, web server, email address, or an Amazon SQS queue that can receive notification messages from Amazon SNS.

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

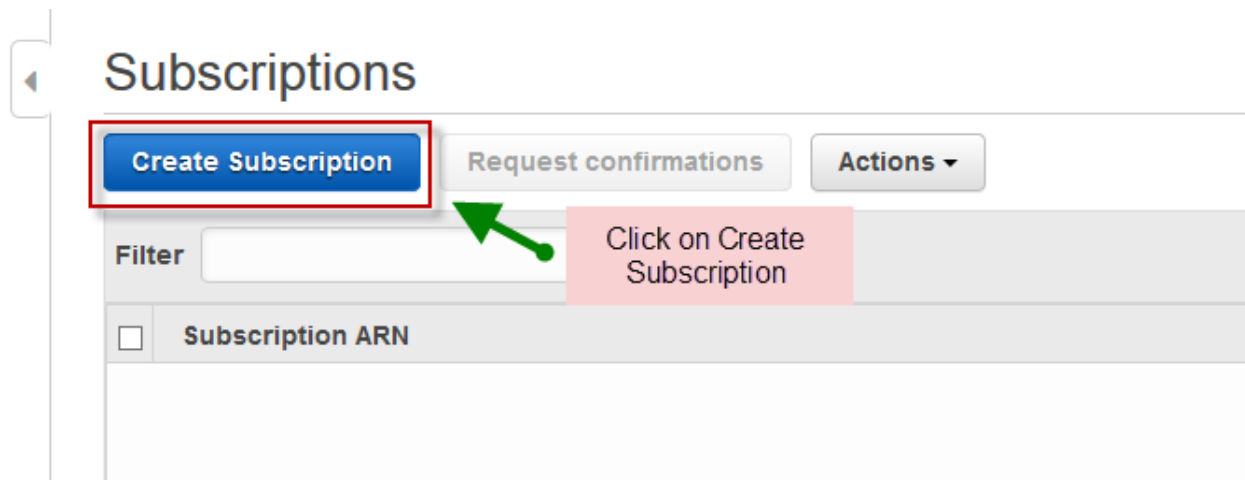
In this section you subscribe an endpoint to the topic you just created in the previous section.

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 filed.

The screenshot shows the 'Create Subscription' dialog box. It has a title bar 'Create Subscription'. Below the title bar, there are three fields: 'Topic ARN' (filled with 'arn:aws:sns:ap-southeast-1:168600309204:Demo-Topic'), 'Protocol' (a dropdown menu set to 'Email'), and 'Endpoint' (filled with 'XXXXXXXXXX@XXX.COM'). A green arrow points from a red callout box labeled 'Copy the ARN' to the 'Topic ARN' field. At the bottom right, there are two buttons: 'Cancel' and 'Create Subscription'.

Select Email from the Protocol drop down list.

Create Subscription

Topic ARN

Protocol

Endpoint

- HTTP
- HTTPS
- Email
- Email-JSON
- Amazon SQS
- Application
- AWS Lambda

Create Subscription

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

Create Subscription

Topic ARN

Protocol

Endpoint

Specify an email

Cancel **Create Subscription**

Once created, subscription status is under Pending Confirmation.

Subscriptions

<div>Create Subscription</div> <div>Request confirmations</div> <div>Actions ▾</div> <div>⌂ ⓘ</div>				
Filter <input type="text"/>				
<input type="checkbox"/>	Subscription ARN	Proto...	Endpoint	Topic ARN
<input type="checkbox"/>	PendingConfirmation	email	arn:aws:sns:ap-southe...	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.



Simple Notification Service

Subscription confirmed!

You have subscribed to the topic:
Demo-Topic.

Your subscription's id is:
arn:aws:sns:ap-southeast-1:168600309204:Demo-Topic:5fbcaa39-3995-4b02-b800-aedfbe37f13f

If it was not your intention to subscribe, [click here to unsubscribe](#).

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

Subscriptions

[Create Subscription](#) [Request confirmations](#) [Actions ▾](#) [Refresh](#) [Help](#)

Filter

<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.

Subscriptions

Create Subscription Request confirmations Actions ▾

Filter

<input type="checkbox"/>	Subscription ARN	Proto...	Endpo
<input checked="" type="checkbox"/>	arn:aws:sns:ap-southeast-1:168600309204:Demo-Topic:5fbcaa39-3995-4b02-b800-aedf...	email	<input type="text"/>

Edit Subscription Delivery Policy

Edit Subscription Attributes

Delete Subscriptions

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

Delete

Subscription `arn:aws:sns:ap-southeast-1:168600309204:Demo-Topic:5fbcaa39-3995-4b02-b800-aedf...` is selected for deletion. Are you sure you wish to delete the selected resources?

Cancel Delete

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**