

# SNS

- Amazon Simple Notification (SNS) Service is a flexible, fully managed pub/sub messaging and mobile notifications service for coordinating the delivery of messages to subscribing endpoints(mobile,lambda function or it can be any applications) and clients
- With SNS, You can fan-out messages to a large number of subscribers, including distributed systems and services, and mobile devices
- It is easy to set up, operate, and reliably send notifications to all your endpoints - at any scale
- You can get started using SNS in a matter of minutes using the AWS Management Console, AWS Command Line Interface, or using the AWS SDK with just three simple APIs
- SNS eliminates the complexity and overhead associated with managing and operating dedicated messaging software and infrastructure
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## Pub/Sub & Mobile Notification



Amazon SNS Pub/Sub Messaging

Decouple and scale microservices, distributed systems, and serverless applications.



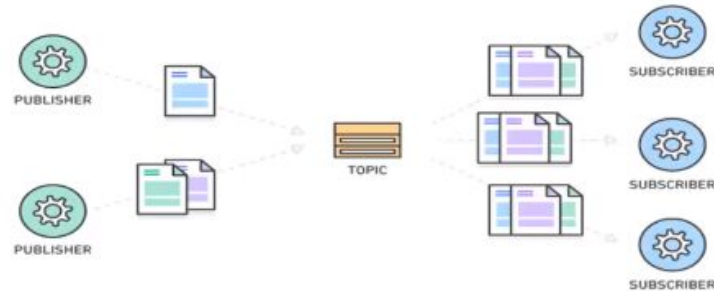
Amazon SNS Mobile Notifications

Send push notifications and SMS to mobile devices.

# Pub/Sub

- ▶ In modern cloud architecture, applications are decoupled into smaller, independent building blocks that are easier to develop, deploy and maintain. Publish/Subscribe (Pub/Sub) messaging provides instant event notifications for these distributed applications. Pub/Sub enables event-driven architectures and asynchronous parallel processing, while improving performance, reliability and scalability.

- ▶ Amazon SNS Pub/Sub Messaging



## Mobile Notification

- ▶ Amazon SNS Mobile Notifications
- ▶ Amazon SNS Mobile Notifications makes it simple and cost effective to send push notifications to iOS, Android, Fire OS, Windows and Baidu-based devices.
- ▶ With SNS, it's easy to send updates, promos, or news to individual users, a subset of users, or all of your users, using a single message.



## Features of SNS

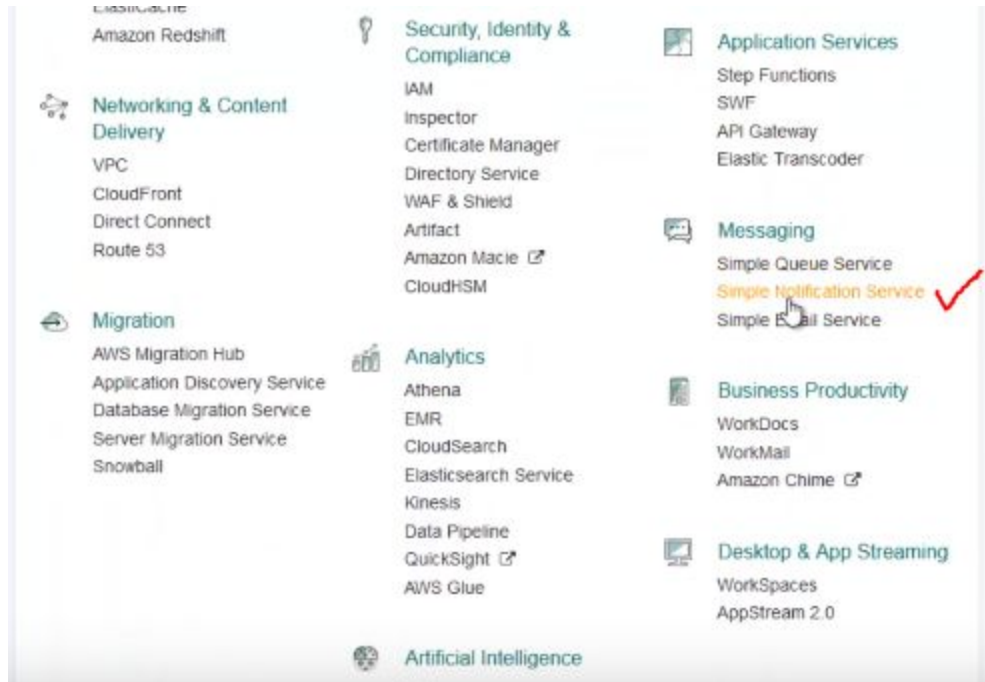
- ▶ With SNS, you can use topics to decouple message publishers from subscribers, fan-out messages to multiple recipients at once, and eliminate polling in your applications.
- ▶ SNS supports a variety of subscription types, allowing you to push messages directly to Amazon Simple Queue Service (SQS) queues, AWS Lambda functions, and HTTP endpoints.
- ▶ AWS services, such as Amazon EC2, Amazon S3 and Amazon CloudWatch, can publish messages to your SNS topics to trigger event-driven computing and workflows.
- ▶ SNS works with SQS to provide a powerful messaging solution for building cloud applications that are fault tolerant and easy to scale.

## Benefits & Use Cases

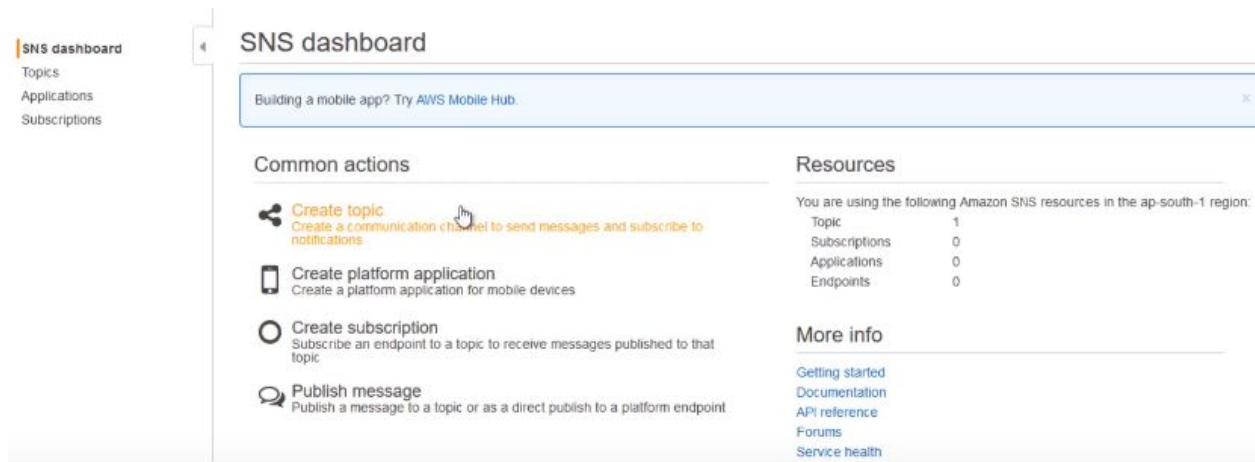
- ▶ Push based system and instantaneous delivery
- ▶ Powering huge message volumes :Hike messenger, Yelp

LAB:

Login to management Console and Click on SNS under messaging



## SNS Dashboard:







Click on Create Topic

## SNS dashboard

Building a mobile app? Try [AWS Mobile Hub](#).

### 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.

### Resources

You are using the following Amazon SNS resources:

Topic	1
Subscriptions	0
Applications	0
Endpoints	0

### More info

- [Getting started](#)
- [Documentation](#)
- [API reference](#)
- [Forums](#)
- [Service health](#)

### Create new topic

Building a mobile app? Try [AWS Mobile Hub](#).

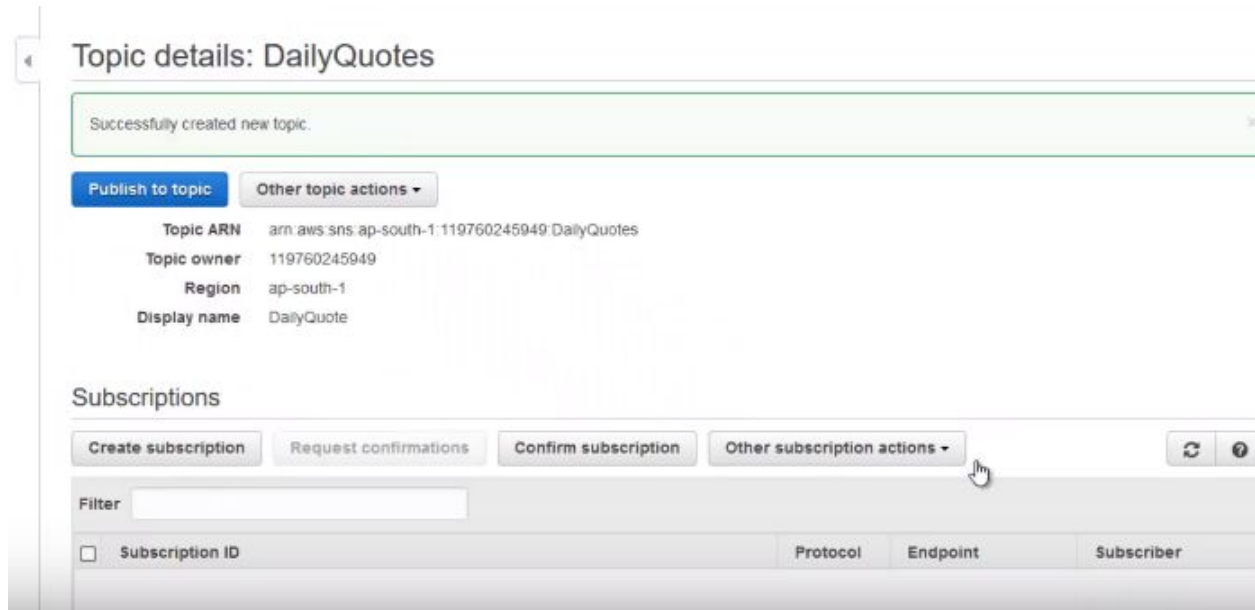
A topic name will be used to create a permanent unique identifier called an Amazon Resource Name (ARN).

**Topic name**  ⓘ

**Display name**  ⓘ

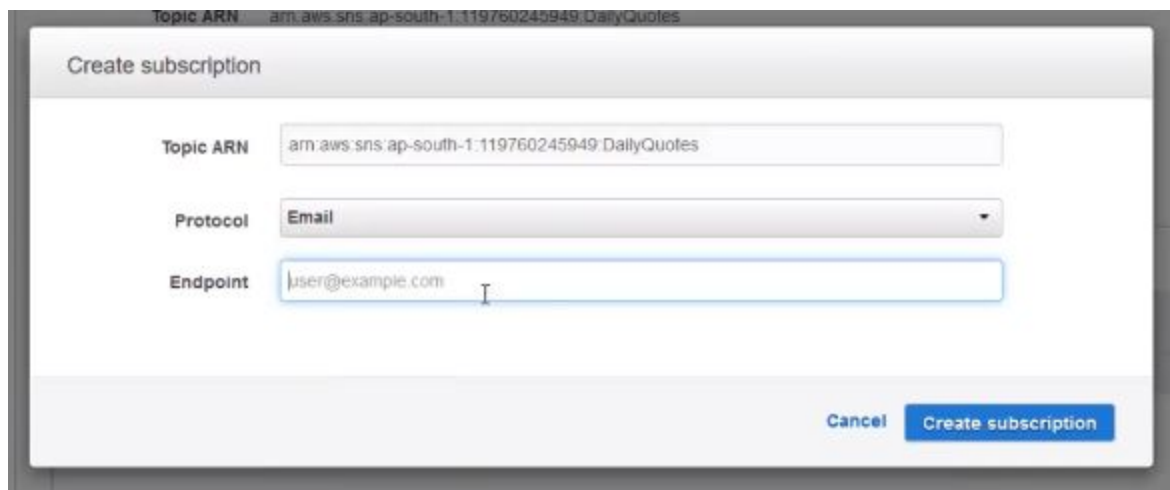
[Cancel](#) [Create topic](#)

Below is created Topic but no subscriber



So create a subscriber now

Click on Create Subscription



Confirmation mail will be send to your email , till then it will be pending state

Once you confirmed on link then you see below message



Simple Notification Service

### Subscription confirmed!

You have subscribed samthedoudguy@gmail.com to the topic: **DailyQuotes**.

Your subscription's id is:

arn:aws:sns:ap-south-1:119760245949:DailyQuotes:3668e6c2-584a-48e7-b45a-bace68103b09

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

Now it is confirmed and you can see the subscriber as below

Topic details: DailyQuotes

Publish to topic

Other topic actions ▾

Topic ARN

arn:aws:sns:ap-south-1:119760245949:DailyQuotes

Topic owner

119760245949

Region

ap-south-1

Display name

DailyQuote

Subscriptions

Create subscription

Request confirmations

Confirm subscription

Other subscription actions ▾

Filter

<input type="checkbox"/>	Subscription ID	Protocol
<input type="checkbox"/>	arn:aws:sns:ap-south-1:119760245949:DailyQuotes:3668e6c2-584a-48e7-b45a-bace681...	email

NOW CLICK ON PUBLISH TOPIC

## Topic details: DailyQuotes

**Publish to topic**

**Other topic actions** ▾

**Topic ARN** arn:aws:sns:ap-south-1:119760245949:DailyQuotes  
**Topic owner** 119760245949  
**Region** ap-south-1  
**Display name** DailyQuote

## Subscriptions

**Create subscription**

**Request confirmations**

**Confirm subscription**

**Other subscription actions**

**Filter**

<input type="checkbox"/>	Subscription ID	Protocol
<input type="checkbox"/>	arn:aws:sns:ap-south-1:119760245949:DailyQuotes:3668e6c2-584a-48e7-b45a-bace681...	email

## Publish a message

Amazon SNS enables you to publish notifications to all subscriptions associated with a topic as well as to an individual endpoint associated with the topic.

**Topic ARN** arn:aws:sns:ap-south-1:119760245949:DailyQuotes

**Subject** DailyQuote1

**Message format** ☒ Raw ☐ JSON

**Message**

I

Write something in the message box

Then you will get messages in your email box



 **DailyQuote** no-reply@sns.amazonaws.com via amazonses.com  
to me ▾

9:17 AM (0 minutes ago) ☆



Start where you are. Use what you have. Do what you can. Arthur Ashe

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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.ap-south-1.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:ap-south-1:119760245949:DailyQuotes:3668e6c2-584a-46e7-b45a-bace68103b09&Endpoint=samthecoudguy@gmail.com>

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