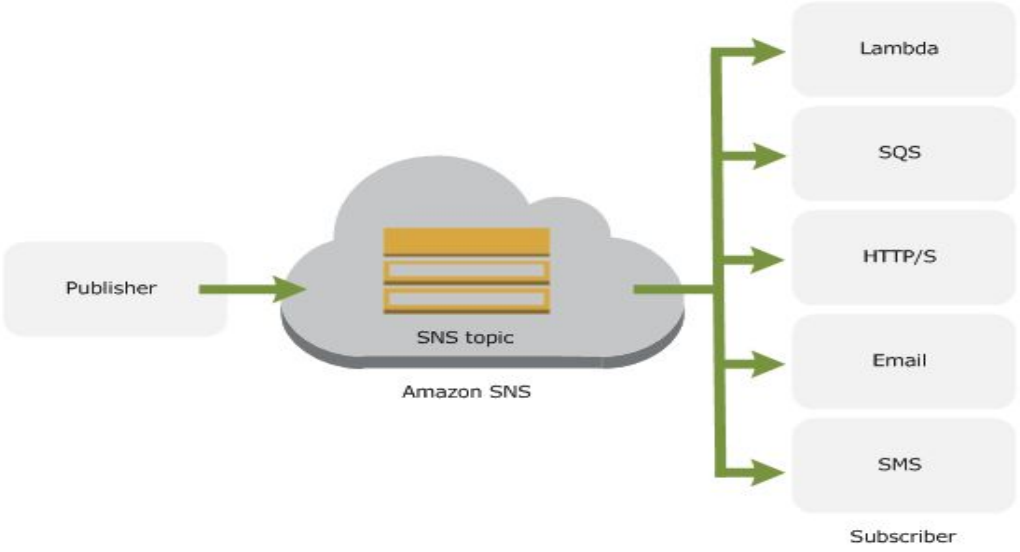
Amazon
Simple Notification Service
(SNS)

June 2017

What is Amazon SNS ?

- Fast , Flexible , Fully Managed Push messaging service
- Send handful messages/day to millions messages/day
- Costs $2.00 to send 100,000 email/email-json notification
- Sends individual messages or to fan-out messages to large number of recipients



Concepts

- Publishers a.k.a Producers
- Subscribers a.k.a. Consumers
- Topic
  - Logical access point and communication channel
  - Owner defines who can PUBLISH and SUBSCRIBE to/from this topic
  - Each **topic** has a unique name that identifies Amazon SNS endpoint
- Protocol
  - Email , Email - JSON
  - HTTP/S , Amazon SQS , Application
  - AWS Lambda , SMS

Using Amazon SNS

- **Process**
  - Create a topic
  - Subscribe to a topic
  - Publish a message to a topic

- **Features**
  - Create a different message format for each protocol

How Pricing Works

- Pay based on
  - Number of notifications you publish
  - Number of notifications you deliver
    - Varies by endpoint type
  - API calls for managing TOPICS and SUBSCRIPTIONS

Endpoint Type	Free Tier	Price
Mobile Push Notifications	1 million	$0.50 per million
Worldwide SMS	100	Learn more
email/email-JSON	1,000	$2.00 per 100,000
HTTP/s	100,000	$0.60 per million
Simple Queue Service (SQS)	No charge for deliveries to SQS Queues	
Lambda functions	No charge for deliveries to Lambda	

http://aws.amazon.com/sns/pricing/

LAB – Amazon SNS

- Create TOPIC
- Subscribe to TOPIC
- Publish message
- JSON Formatter

Note Cards-Developer Associates

SNS - Naming Notes

- Topic Names must be unique
- Limited to 256 characters
- Alphanumeric is allowed
- Hyphens (-) and Underscore (_) is allowed

Key Differences between SNS and SQS

- SNS is a PUSH mechanism
- SQS is a PULL mechanism
- If SQS is a subscriber to the SNS topic then SQS must have policy so as to allow TOPIC to send message to the Queue
- Message Attributes
  - are not sent to the subscriber for SNS as those are for creating conditional logic program
    - Name
    - Type
    - Value
  - are sent to SQS queue

Thanks