

# AWS Simple Queue Service

- SQS is a fast, reliable, fully managed message queue service.
- It is a webservice that gives you access to message queues that store message waiting to be processed.
- It offers a reliable, highly scalable, hosted queue for storing messages between servers.
- It allows the decoupling of application components such as that a failure in one component does not cause a bigger problem to application functionality.

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## AWS SQS Types

→ High Conc

### \* Standard Queue

- High (unlimited) throughput
- At least on delivery
- Duplication is possible
- Best efforts ordering.

## \* FIFO Queue

- Limited throughput (300 TPS)
- Exactly one processing
- Duplication not possible
- Strict ordering - first in - first out.
- FIFO Queue are limited to 300 transaction per second (300 TPS), but have all the capabilities of standard Queue.

## Pricing

1 million requests → free.

Standard → \$0.40 / ~~month~~ million request

FIFO → \$0.50 / million request.

## Polling

- \* Short polling
- \* Long polling

## SQS - Retention period

→ SQS message can remain in the Queue for upto 14 days (SQS Retention period)

→ Range is 1 min to 14 days (default is 4 days)



## SQS - visibility Timeout

→ Is the duration of time a message is locked for read by other servers.

→ Max is 12 hrs & Default is 30sec.

## Delivery Delay

AWS SQS provides delivery delay options to postpone the delivery of new messages to a queue. If delivery delay is defined for a queue, any new messages will not be visible to the ~~other~~ server for the duration of delay. The default (min.) delay for a queue is 0 second, The max. is 15 min.

## Receive Message Wait Time

The default time is 0sec. This is max. amount of time that a long polling receive call will wait for a message to become available before returning an empty response. (max value is 20 sec)

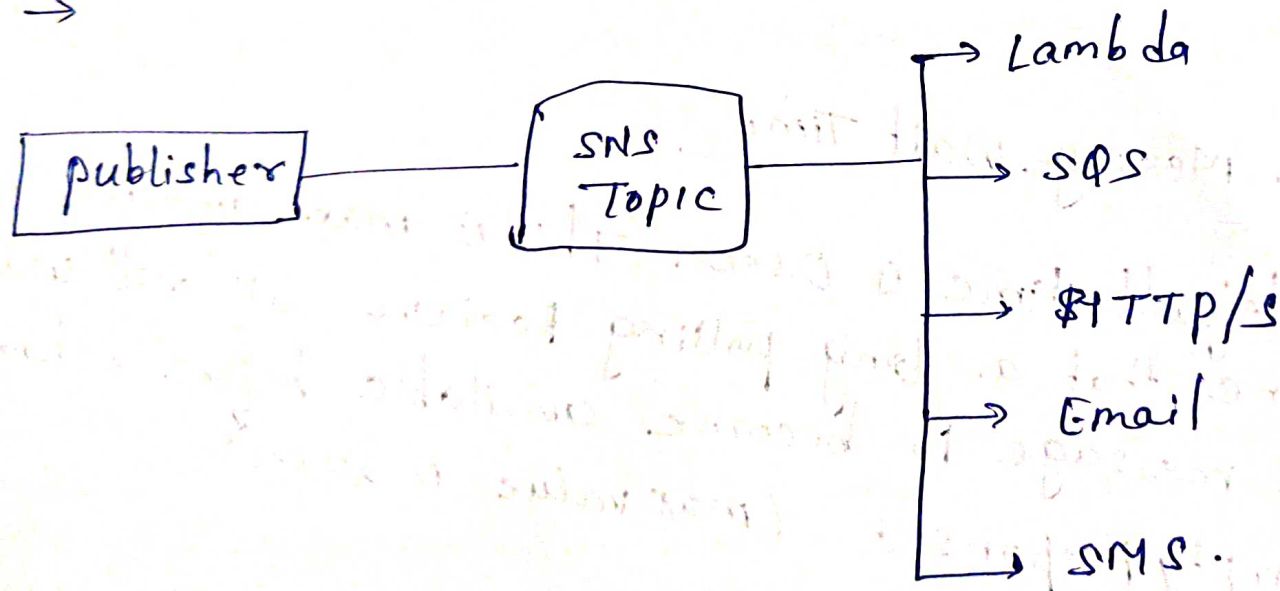
## Dead Letter Queue

- Main task of it is handling message failure.
- A dead letter queue lets you set aside and isolate messages that can't be processed correctly to determine why their processing didn't succeed

# AWS Simple Notification Service

- SNS is a fast, flexible, fully managed push notification Service.
- It is a webservice that co-ordinates and manages the delivery or sending of message to subscribing endpoints or clients.
- It allows for sending individual message to a large number of Recipient or to other distributive AWS services.
- messages published to an SNS Topics will be delivered to the subscriber immediately.

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## SNS Topic

- It is a logical access point and communication channel.
- Each topic has a unique name.
- A topic name is limited to 256 alphanumeric characters.
- The topic name must be unique within the AWS Region.
- A topic can support subscribers and notification deliveries over multiple protocols.