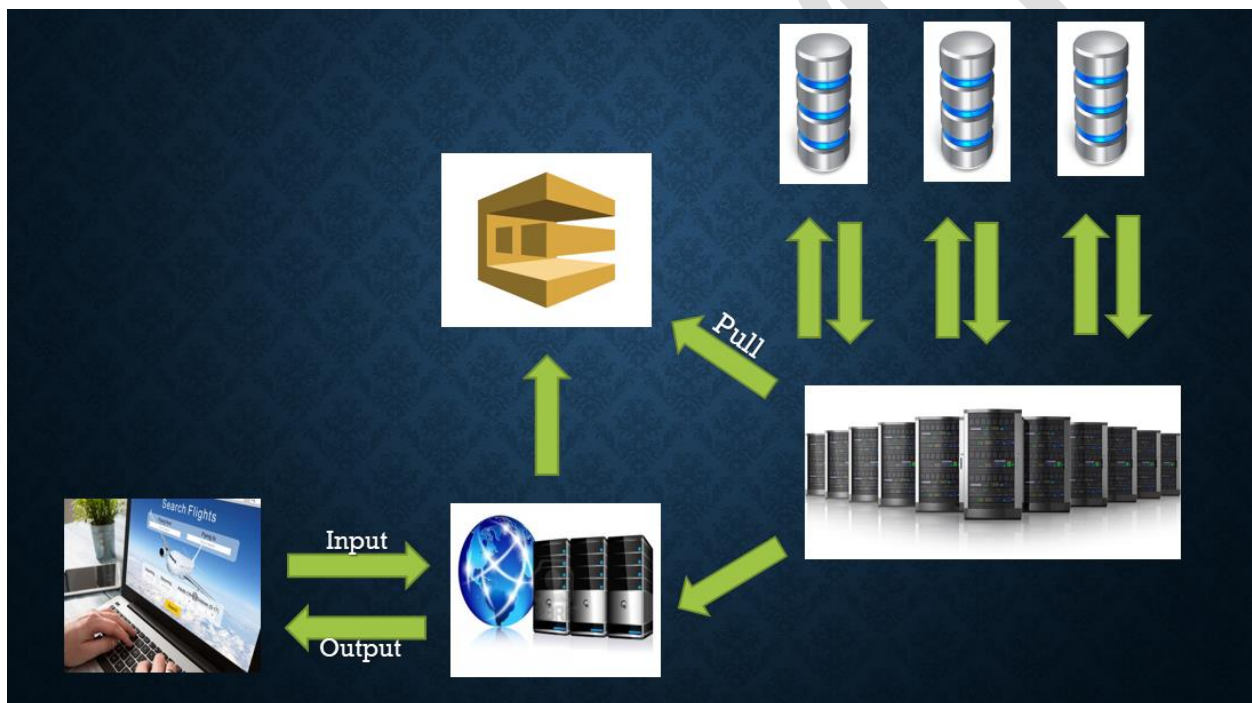# SQS

(SIMPLE QUEUE SERVICE)

- SQS is a message queue used to store messages while waiting for a computer to process them
- Queue is a temporary repository for messages that are awaiting process

Queue Types

Standard Queue

- Default queue
- Messages can go out of order
- Unlimited no of transactions per second

FIFO (First-In-First-Out)

- Not Default queue
- Messages will go in exact order
- 300 Transactions per second

Important points to note

- SQS is pull based. not push based.
- Decoupling mechanism
- Messages can contain up to 256KB of text in any format
- Messages can be kept in the queue for 14 days max
- Default retention period is 4 days
- SQS guarantee that your messages will be processed at least once

Visibility Time Out

- The Visibility Timeout is the amount of time that the message is invisible in the SQS queue after a reader picks up that message. Provided the job is processed before the visibility time out expires, the message will then be deleted from the queue. If the job is not processed within that time, the message will become visible again and another reader will process it.
- Default Visibility Timeout is 30 Seconds

- Increase it if your task takes >30 seconds
- Maximum is 12 hours

SQS Long Polling

- It is a way to retrieve messages from your SQS Queue
- Polls the queue periodically as per the time interval we set.
- Long polling can save your money.