**SIMPLE QUEUE SERVICE**

SQS is a message queue used to store messages while waiting for computer to process them

Queue is temporary repository for messages that are awaiting process

**Queue Types**

Standard Queue

FIFO (First-In-First-Out)

WebServer-1

Route53 🡪 LB WebServer-2 SQS 🡪 Application 🡪 DB

WebServer-3

Standard Queue

* Default Queue
* Messages can go out of order
* Unlimited no of transactions per seconds

FIFO (First-In-First-Out)

* Not Default Queue
* Messages will go in exact order
* 300 transactions per seconds

**Note:**

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

**Visibility Timeout Out**

* Once the request is pulled from the SQS,the request is SQS will not be deleted, it be invisible for 30 seconds
* Within 30 seconds application server should process the request
* Within 30 seconds, if application server process the request, it will be deleted from the SQS
* Within 30 seconds, if application server unable to process the request.it will be visible again in SQS
* If Application server takes more than 30 seconds, we can increase the visibility time out up to 12hours
* Default visibility timeout is 30 seconds
* Increase if your task takes > 30 seconds
* Maximum is 12 hours