

SQS

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- It's a web service that gives you access to a message queue that can be used to store messages while waiting for a computer to process them.
- Distributed queue system.
- Pub based system.
- You can decouple the components of an application so they own independently.
- It acts as a buffer component between Producer and Consumers.
- 1) Standard Queues (Default)
 - unlimited transactions Per Second
 - Message delivered atleast once
 - Some messages are out of order.
- 2) FIFO Queues
 - Always messages are sent in order.
 - 300 transactions Per Second.
 - No Duplicates.
- 256 kb size
- Kept in queue for 1 minute to 14 days.

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- Default retention Period is 4 days.
 - visibility time is amount of time that the message is invisible in the SQS queue.
 - Default visibility time is 30.
Maximum is 12 hours.

- Long Polling or Short Polling
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 - only when Message is there.
 - every time checks even if empty
- Low Costly.

Simple Workflow Service

- is a web service that makes it easy to coordinate work across distributed application components.
- Coordination of tasks.
- Workers are Programs that interact with Amazon SWF to get tasks done.
- Decider is a Program that Controls the coordination of tasks eg. concurrency, ordering etc.

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- A task is assigned only once is never duplicated in SWF.
 - SWF Domains isolate a set of types, executions and task from others within the same account.
 - Maximum workflow is 1 year.

SNS

- is a web service that send notifications in the cloud.
- Allows to group multiple receipts using topics. A topic is an access point for receipts to subscribe a notification.
- stored redundantly in multiple AZ's.
- Instantaneous, Push based delivery.
- Inexpensive.

Elastic Transcoder

- Media transcoder in the cloud.
- Converts media files from original source in to different formats that will play on tablets, smartphones etc.

API Gateway

- It is a fully managed service that makes it easy for developers to Publish, maintain, monitor and secure API's at any scale.
- API Caching can reduce the number of calls made to your endpoint. Caching is done by a TTL.
- Scales Effortlessly
- Throttle requests to prevent attacks.
- Same Origin Policy: web browser permits scripts contained in 1st webpage to in 2nd webpage if both have same origin.
- If we are using multiple domains with API gateway then CORS needs to be enabled.

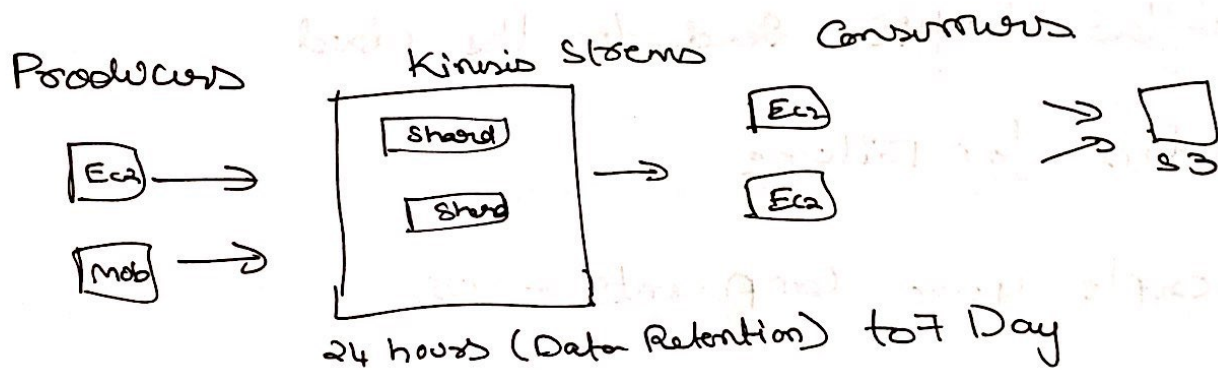
Kinesis

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- Streaming data is data sent simultaneously.
- Kinesis is a platform on AWS to send your streaming data too.

- 1) Streams
- 2) Firehose
- 3) Analytics.

① Streams



- Consist of shard & multiple shards.

② Firehose

Producers



- Firehose is totally automated.

③ Analytics

- Streams + Firehose