



Creation of Simple Queue Service

Agenda:

Amazon Simple Queue Service (SQS) is a fully managed message queuing service that enables you to decouple and scale microservices, distributed systems, and serverless applications. SQS eliminates the complexity and overhead associated with managing and operating message-oriented middleware and empowers developers to focus on differentiating work. Using SQS, you can send, store, and receive messages between software components at any volume, without losing messages or requiring other services to be available. Get started with SQS in minutes using the AWS console, Command Line Interface or SDK of your choice, and three simple commands.

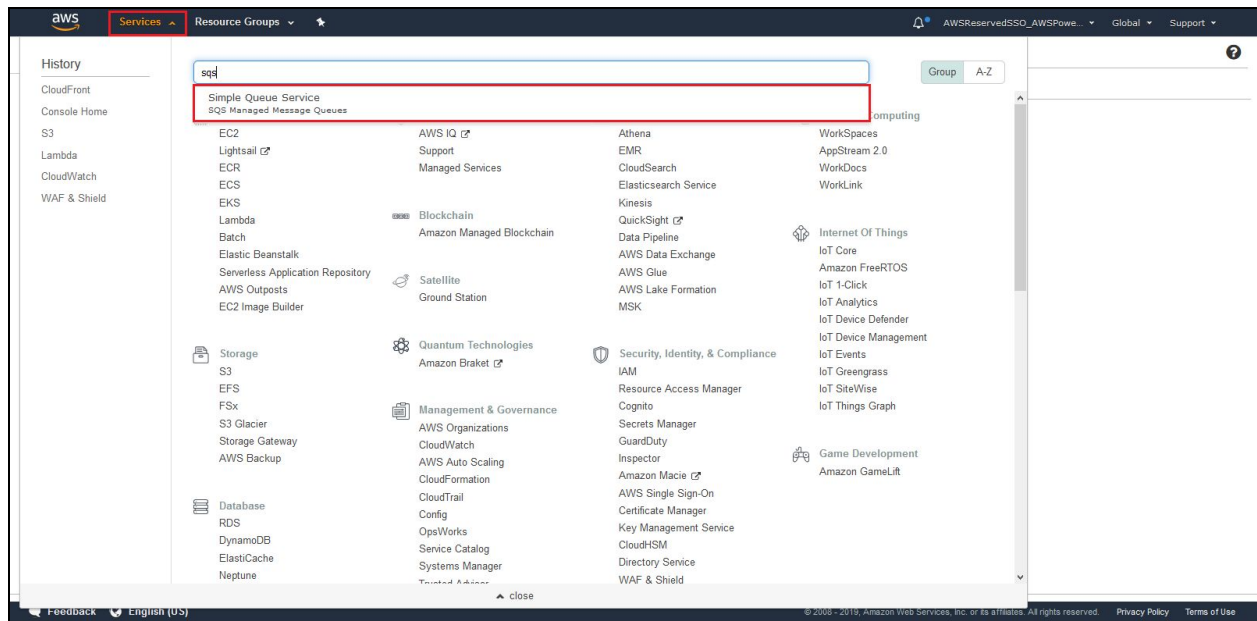
SQS offers two types of message queues.

Standard queue: Unlimited Throughput, At-Least-Once Delivery, Best-Effort Ordering.

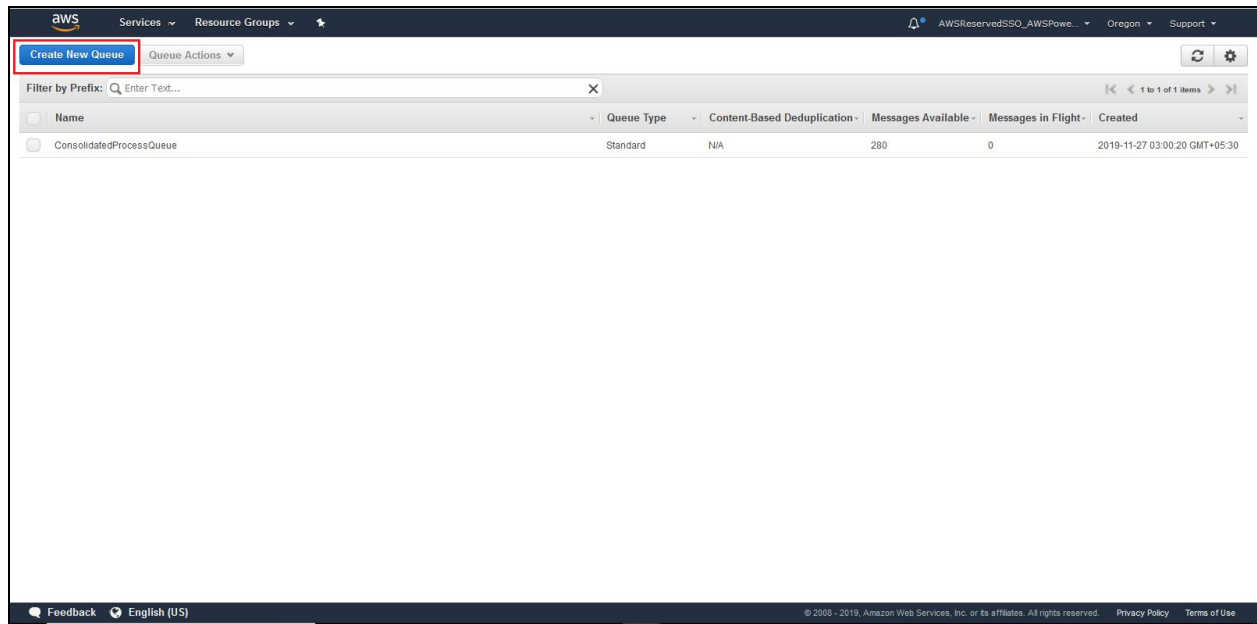
FIFO queue: High Throughput, Exactly-Once Processing, First-In-First-Out Delivery.

As per our requirement we are configuring standard queue

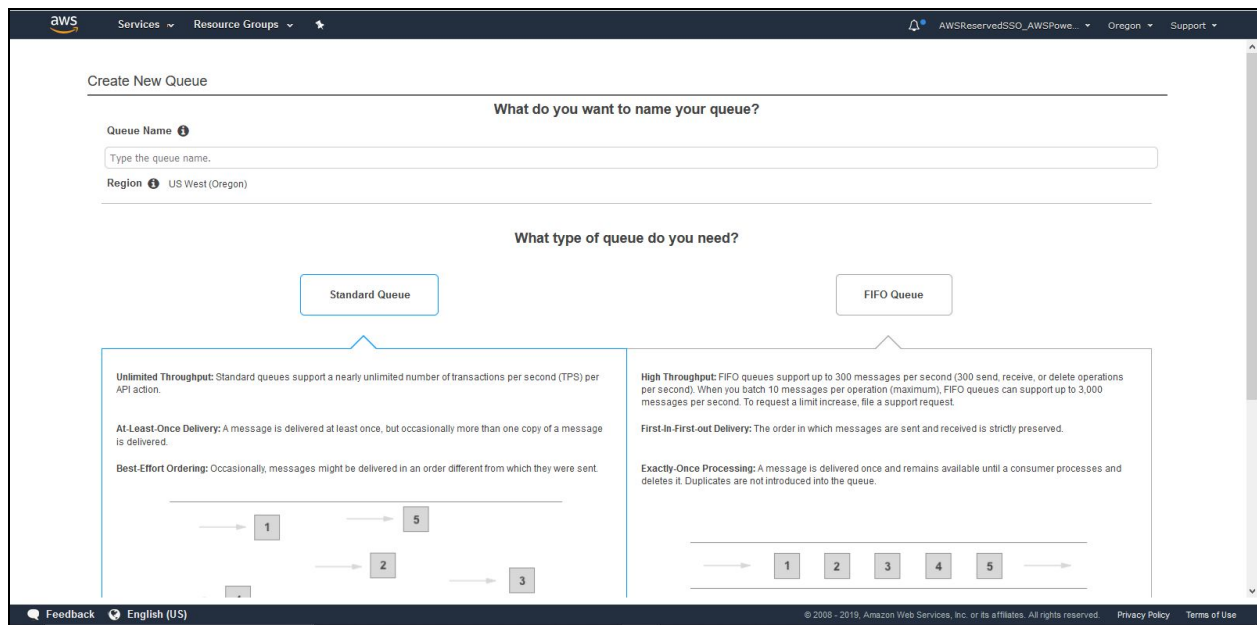
First we need to log in into the AWS Console and search **Simple Queue Service**.



Click on create New Queue



Enter the name of the Queue and for our requirement we are using a standard queue.



And click on Configure queue

The screenshot shows the AWS console interface for configuring an SQS queue. The top navigation bar includes the AWS logo, 'Services', 'Resource Groups', and user information. The main content area is divided into two columns. The left column contains text about 'Unlimited Throughput', 'At Least-Once Delivery', and 'Best-Effort Ordering', accompanied by a diagram showing a non-sequential message flow (1, 4, 5, 2, 3). The right column contains text about 'High Throughput', 'First-In-First-Out Delivery', and 'Exactly-Once Processing', accompanied by a diagram showing a sequential message flow (1, 2, 3, 4, 5). Below these columns, there are links to 'Amazon SQS FAQs' and 'Amazon SQS Developer Guide'. At the bottom, there are three buttons: 'Cancel', 'Configure Queue' (highlighted with a red box), and 'Quick-Create Queue'.

Now configure the SQS with required values as shown below and click on create queue.

The screenshot shows the AWS console interface for creating a new SQS queue. The top navigation bar is the same as the previous screenshot. The main content area is titled 'Queue Attributes' and contains several input fields. The 'Default Visibility Timeout' is set to 2 minutes, 'Message Retention Period' is 4 days, 'Maximum Message Size' is 256 KB, 'Delivery Delay' is 0 seconds, and 'Receive Message Wait Time' is 0 seconds. Below these, there are sections for 'Dead Letter Queue Settings' and 'Server-Side Encryption (SSE) Settings'. At the bottom right, there are two buttons: 'Cancel' and 'Create Queue' (highlighted with a red box).

Following is the dashboard after creating a simple queue and details need to share with the backend developers to call the SQS service through API.

The screenshot displays the AWS Management Console interface for the SQS service. At the top, the navigation bar includes the AWS logo, 'Services', 'Resource Groups', and a search bar. The main header shows 'Create New Queue' and 'Queue Actions' buttons. Below this is a filter bar with a search input and a table of queues. The table has columns for Name, Queue Type, Content-Based Deduplication, Messages Available, Messages in Flight, and Created. One queue, 'ConsolidatedProcessQueue', is listed with a Standard Queue Type and 0 messages available. Below the table, a section titled '1 SQS Queue selected' provides detailed information for the selected queue. This section includes tabs for Details, Permissions, Redrive Policy, Monitoring, Tags, Encryption, and Lambda Triggers. The Details tab is active, showing the queue's Name, URL, ARN, Created and Last Updated timestamps, Delivery Delay, Queue Type, Content-Based Deduplication, Default Visibility Timeout, Message Retention Period, Maximum Message Size, Receive Message Wait Time, Messages Available (Visible), Messages in Flight (Not Visible), and Messages Delayed.

Name	Queue Type	Content-Based Deduplication	Messages Available	Messages in Flight	Created
ConsolidatedProcessQueue	Standard	N/A	0	0	2019-10-24 23:14:14 GMT+05:30

1 SQS Queue selected

Details | Permissions | Redrive Policy | Monitoring | Tags | Encryption | Lambda Triggers

Name: ConsolidatedProcessQueue
URL: https://sqs.us-west-2.amazonaws.com/646632670602/ConsolidatedProcessQueue
ARN: arn:aws:sqs:us-west-2:646632670602:ConsolidatedProcessQueue
Created: 2019-10-24 23:14:14 GMT+05:30
Last Updated: 2019-11-16 03:35:18 GMT+05:30
Delivery Delay: 0 seconds
Queue Type: Standard
Content-Based Deduplication: N/A

Default Visibility Timeout: 2 minutes
Message Retention Period: 4 days
Maximum Message Size: 256 KB
Receive Message Wait Time: 0 seconds
Messages Available (Visible): 0
Messages in Flight (Not Visible): 0
Messages Delayed: 0

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