

AWS SQS & Amazon MQ

AWS SQS(simple queue service)

1 Login to AWS Console

- Go to <https://aws.amazon.com/console/> and sign in.

2 Open Amazon SQS

- In the AWS Console, search for SQS and open Amazon Simple Queue Service.

3 Create a Queue

- Click Create queue.

4 Select Queue Type

- Choose between:
 - Standard Queue (default; high throughput).
 - FIFO Queue (First-In-First-Out; for message ordering).

5 Configure Queue Details

- Name: Enter a queue name.
 - (For FIFO queues, name must end with .fifo).
- Visibility timeout: Optional (default is 30 seconds).

- Message retention period: Set how long messages are retained (default is 4 days).

6 Configure Server-Side Encryption (Optional)

- If needed, enable SSE (Server-Side Encryption):
 - Use AWS KMS key to encrypt messages at rest.
 - You can choose the default KMS key or your own CMK.

7 Access Policy (Optional)

- Set who can send/receive/delete messages from the queue:
 - Basic permissions for this AWS account.
 - Or define a custom access policy (JSON format).

8 Dead-Letter Queue (Optional)

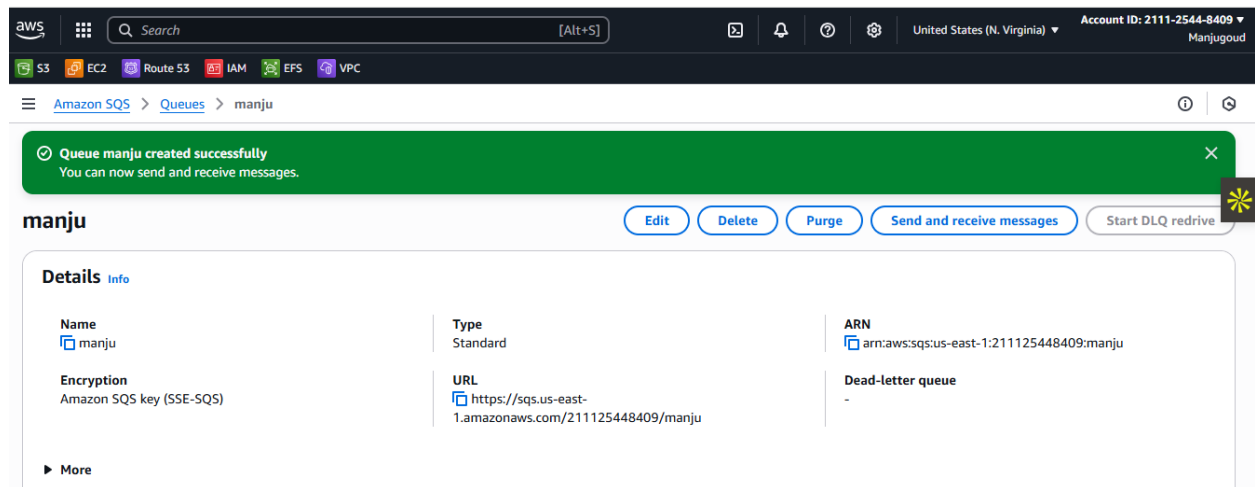
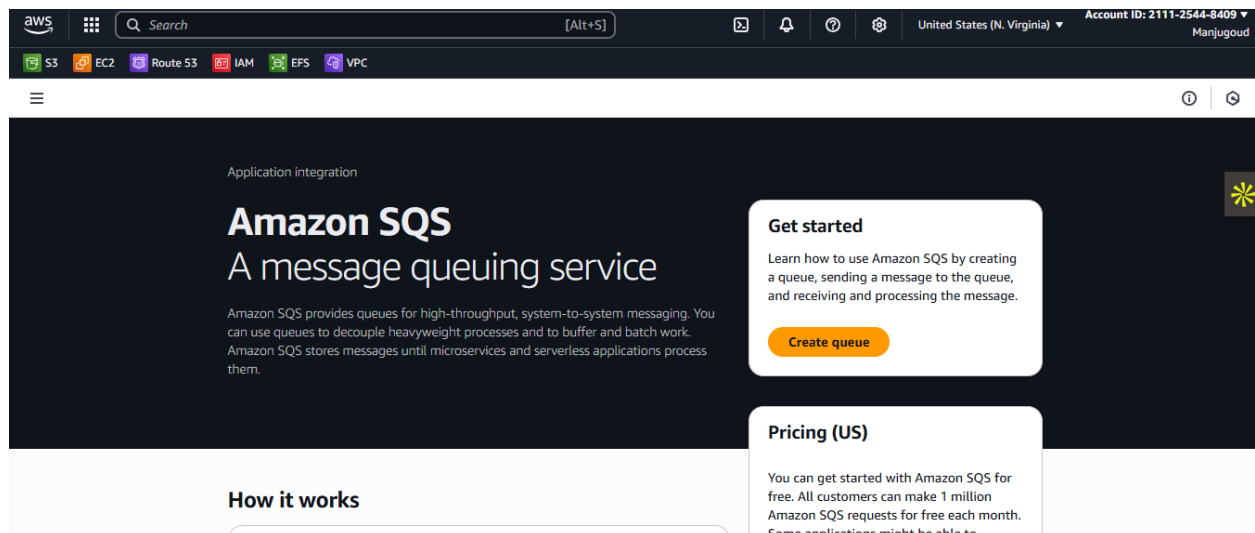
- Configure a DLQ (Dead-Letter Queue) to handle failed message deliveries.

9 Review and Create

- Review all settings.
- Click Create queue.

10 Queue is Ready

- After creation:
 - You'll see the queue URL.
 - You can now send, receive, and delete messages using the AWS Console, CLI, SDK, or integrated services like Lambda.



AWS MQ(Message queue)

1 Login to AWS Console

- Go to <https://aws.amazon.com/console/> and sign in.

2 Open Amazon MQ Service

- In the AWS Console, search for Amazon MQ and open it.

3 Click “Create Broker”

- Click the Create broker button to start the setup process.

4 Select Broker Engine

- Choose the message broker engine:
 - ActiveMQ (popular and stable).
 - RabbitMQ (lightweight and fast).

5 Configure Broker Details

- Broker name: Provide a unique name.
- Broker instance type: Choose instance size (e.g., mq.t3.micro).
- Deployment mode: Choose:
 - Single-instance broker (simple, dev/testing).
 - Active/standby broker (high availability) (for production).

6 Set Authentication Details

- Create broker credentials (username and password) for accessing the broker.

7 Network Configuration

- Choose a VPC and subnets where the broker will run.
- Configure security groups to control access to the broker endpoints.

8 Encryption (Optional)

- At-rest encryption: Automatically enabled using AWS-managed KMS keys.
- In-transit encryption: Enabled by default using TLS.

9 Maintenance and Logs (Optional)

- Optionally:
 - Enable CloudWatch logs.
 - Set maintenance preferences (like preferred window).

10 Review and Launch

- Review all settings.
- Click Create broker.

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Search

[Alt+S]

United States (N. Virginia)

Account ID: 2111-2544-8409

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S3EC2Route 53IAMEFSVPC

Application Integration

Amazon MQ

Fully managed open source message broker service

Amazon MQ is a managed message broker service for Apache ActiveMQ and RabbitMQ that makes it easy to set up and operate message brokers in the cloud, so you can migrate your messaging and applications without rewriting code.

Create brokers

Create message brokers in the cloud.

[Get started](#)

Pricing

With Amazon MQ, you pay only for what you use. There are no minimum fees or upfront commitments. You pay for the

Benefits

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[Amazon SQS](#) > [Queues](#) > [manju](#) > Send and receive messages

Send and receive messages

Use this page to send, retrieve and view messages, helping you experiment with various queue features.

Send message [Info](#)

✔ Your message has been sent and is ready to be received. [View sent message details](#) ✕

Message body

Enter the message to send to the queue.

hello boy

Message group ID - optional, new [Info](#)

A group identifier for the message to allow fair processing across message groups in a standard queue.

Message group ID must be 1 to 128 characters. Valid characters are a-z, A-Z, 0-9, and punctuation (!"#\$%&'()*+,-./:;<=>?@[\\]^_`{|}~).

Delivery delay [Info](#)

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[Amazon MQ](#) > [Brokers](#) > rabbit

Amazon MQ

[Brokers](#)

Configurations

✔ Broker rabbit is being created.
Broker creation takes about 20 minutes. Your broker's configuration can be found on the Configurations page.

Details

Specifications

ARN [Info](#)
arn:aws:mq:us-east-1:211125448409:broker:rabbit:b-24576a0f-a9d1-433d-820b-ba6a8ff85ec6

Broker name
rabbit

Broker status
Creation in progress

Broker instance type [Info](#)

CloudWatch Logs

General
Disabled - [Logs](#)

Security and network

VPC [Info](#)
vpc-0745087e580d9cd8f

Subnet(s) [Info](#)
subnet-06b884579fe7998d2

Public accessibility [Info](#)
Yes

Maintenance

Automatic minor version upgrade
Yes

Maintenance window
Friday 17:00 - 19:00 UTC

Pending modifications
Broker configuration
[Pending configuration](#)

Edit

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S3 EC2 Route 53 IAM EFS VPC

Amazon SQS > Queues > manju > Send and receive messages

Clear content Send message

Receive messages Info

Messages available 1

Messages (1)

Search messages

Received message: 331cae18-9eca-40ba-bbcd-1a5bc1090650

Body Attributes Details

hello boy

Done

Progress 40%

View details Delete

ID	Sent	Size	Receive count
331cae18-9eca-40ba-bbcd-1a5bc1090650	2025-08-17T16:39:05:30	9 bytes	1

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Amazon MQ > Brokers > rabbit

Amazon MQ

Brokers

Configurations

Broker rabbit is being created. Broker creation takes about 20 minutes. Your broker's configuration can be found on the Configurations page.

Connections

Access your queues and exchanges and connect your application to the broker. If you disable public accessibility for your broker, your endpoints are reachable only within a VPC.

RabbitMQ web console

<https://b-24576a0f-a9d1-433d-820b-ba6a8ff85ec6.mq.us-east-1.on.aws>

Endpoints

AMQP

<amqp://b-24576a0f-a9d1-433d-820b-ba6a8ff85ec6.mq.us-east-1.on.aws:5671>