

Create AWS SQS Queues with Dead Letter Queue

1

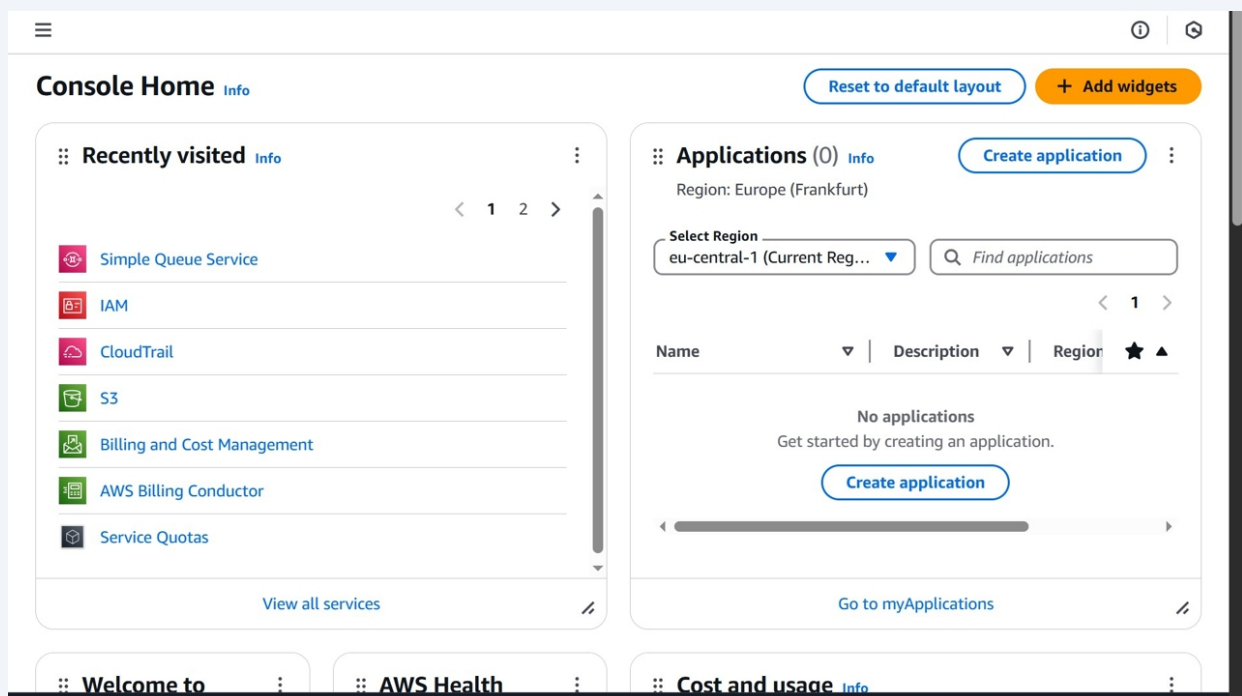
Overview

An **AWS SQS queue** is a fully managed message queuing service that enables you to decouple and scale microservices, distributed systems, and serverless applications. It allows you to send, store, and receive messages between software components at any volume, without losing messages or requiring other services to be always available.

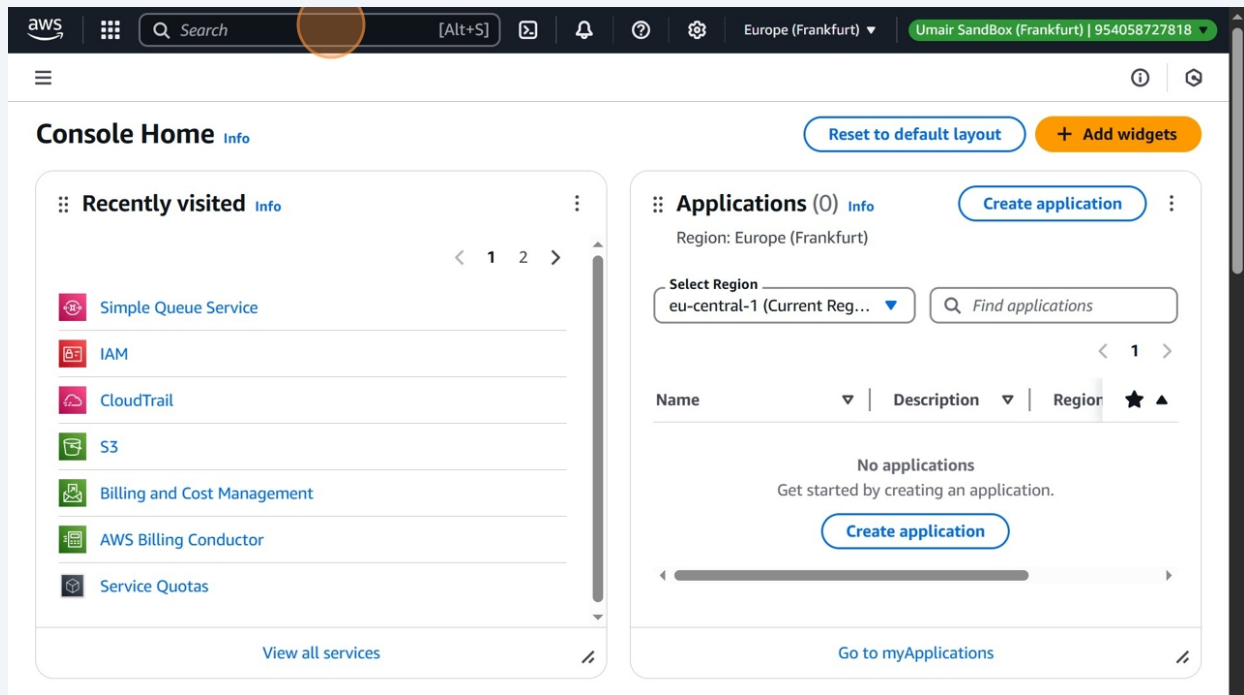
Dead-Letter Queue (DLQ): Special SQS queue for messages that fail processing from a source queue after retries. Configured via a redrive policy. Isolates problematic messages for debugging and prevents blocking the main queue. Crucial for resilience and data durability, allowing inspection and potential reprocessing of failed messages.

2

Navigate to AWS console

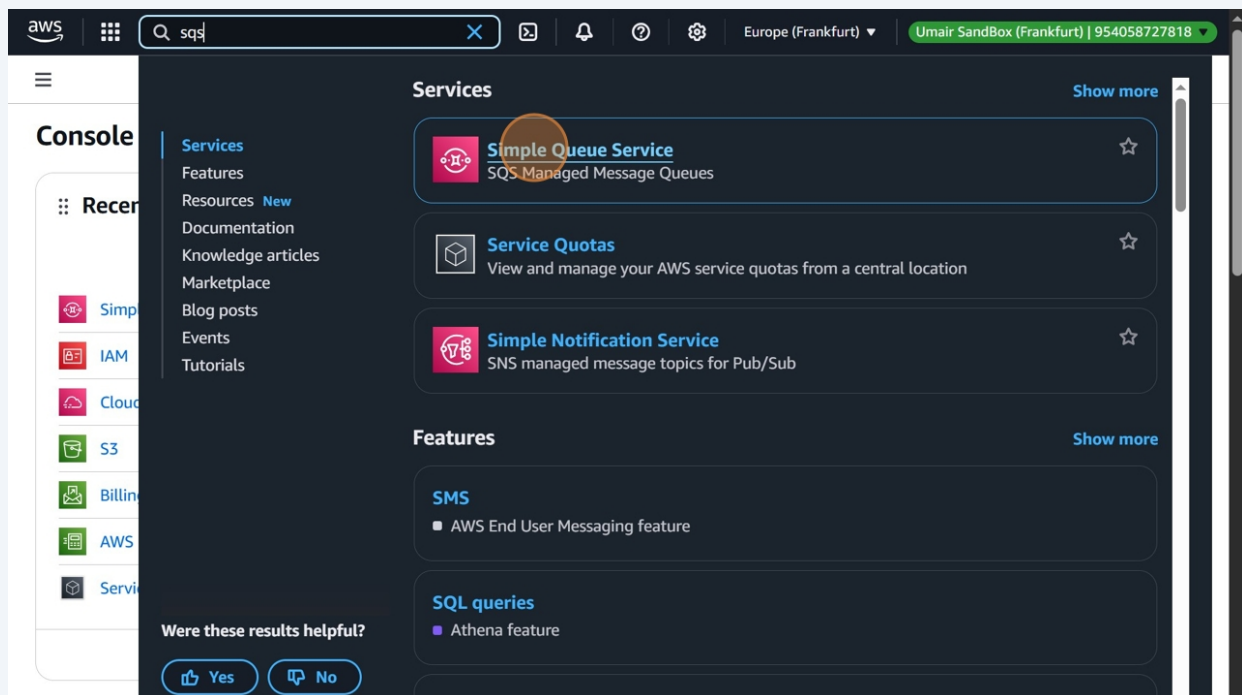


3 Click the "Search" field.

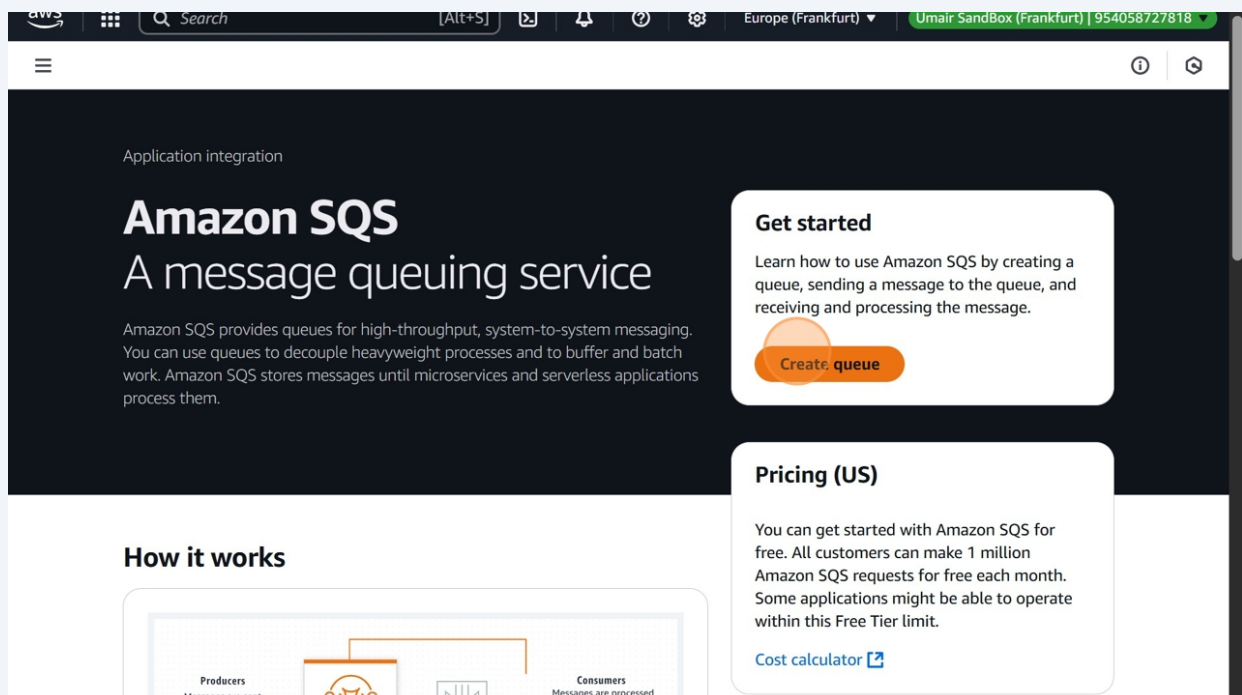


4 Type "sqs"

5 Click "Simple Queue Service"



6 Click "Create queue" and create source queue



7 Click the "Name" field.

Create queue

Details

Type
Choose the queue type for your application or cloud infrastructure.

☒ **Standard** [Info](#)
At-least-once delivery, message ordering isn't preserved

- At-least once delivery
- Best-effort ordering

☐ **FIFO** [Info](#)
First-in-first-out delivery, message ordering is preserved

- First-in-first-out delivery
- Exactly-once processing

You can't change the queue type after you create a queue.

Name

A queue name is case-sensitive and can have up to 80 characters. You can use alphanumeric characters, hyphens (-), and underscores (_).

Configuration [Info](#)

Set the maximum message size, visibility to other consumers, and message retention.

Visibility timeout [Info](#)

Message retention period [Info](#)

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8 Type "demo-app-queue". The name can be anything according to the requirement.

9 Click "Create queue"

☐ Enabled

Dead-letter queue - Optional [Info](#)
Send undeliverable messages to a dead-letter queue.

Set this queue to receive undeliverable messages.

☒ Disabled
☐ Enabled

Tags - Optional [Info](#)
A tag is a label assigned to an AWS resource. Use tags to search and filter your resources or track your AWS costs.

Key Value - optional [Remove](#)

[Add new tag](#)
You can add 49 more tags.

[Cancel](#) [Create queue](#)

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10 Click "Create queue" and create dead-letter queue this time.

aws Search [Alt+S] Europe (Frankfurt) Umlair SandBox (Frankfurt) | 954058727818

Amazon SQS > Queues

Queues (1) [Refresh](#) [Edit](#) [Delete](#) [Send and receive messages](#) [Actions](#) [Create queue](#)

| | Name | Type | Created | Messages available | Messages in flight | Encryption |
|-----------------------|--------------------------------|----------|------------------------|--------------------|--------------------|--------------------|
| <input type="radio"/> | demo-app-queue | Standard | 2025-04-14T16:51+05:00 | 0 | 0 | Amazon SQS key (S) |

11 Click the "Name" field.

Create queue

Details

Type
Choose the queue type for your application or cloud infrastructure.

☒ **Standard** [Info](#)
At-least-once delivery, message ordering isn't preserved

- At-least once delivery
- Best-effort ordering

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[?](#) You can't change the queue type after you create a queue.

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Set the maximum message size, visibility to other consumers, and message retention.

Visibility timeout [Info](#)

Message retention period [Info](#)

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12 Enter the queue name for dead-letter queue. Adding "-dlq" in the end is common practice but not required.

13 Click "Create queue"

☐ Enabled

Dead-letter queue - Optional [Info](#)
Send undeliverable messages to a dead-letter queue.
Set this queue to receive undeliverable messages.
☒ Disabled
☐ Enabled

Tags - Optional [Info](#)
A tag is a label assigned to an AWS resource. Use tags to search and filter your resources or track your AWS costs.

Key **Value - optional** [Remove](#)

[Add new tag](#)
You can add 49 more tags.

[Cancel](#) [Create queue](#)

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14 Select the source queue

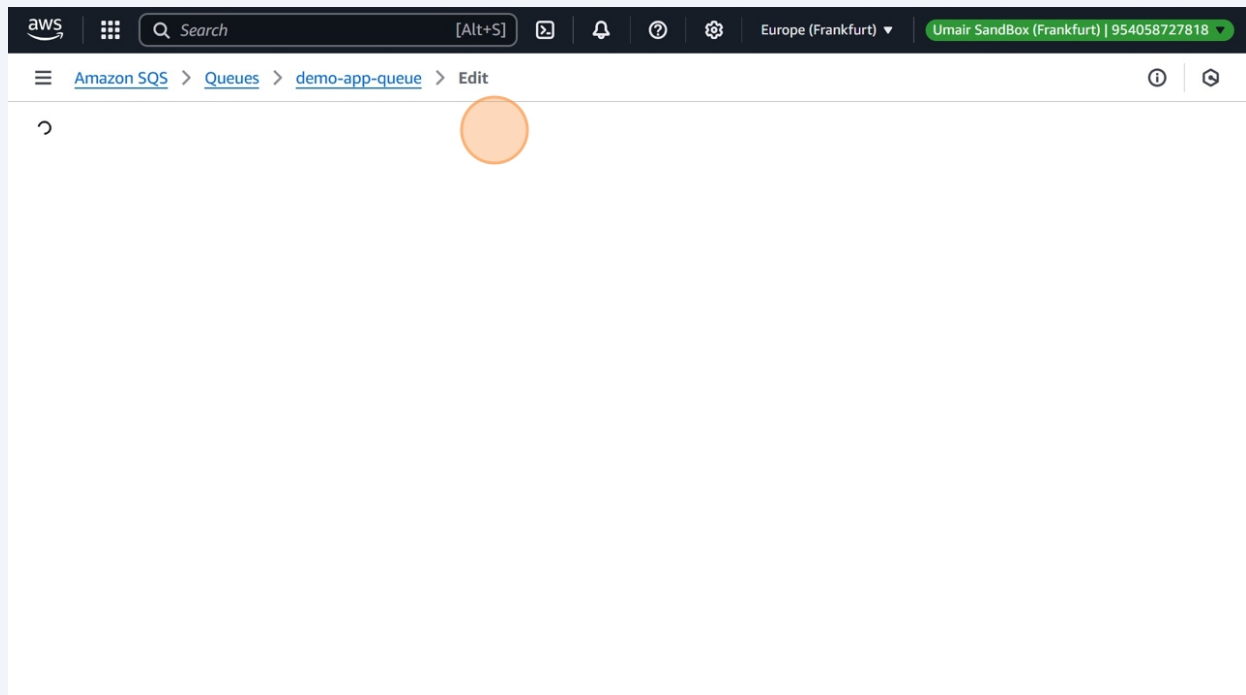
aws Search [Alt+S] Europe (Frankfurt) Umair SandBox (Frankfurt) | 954058727818

Amazon SQS > Queues

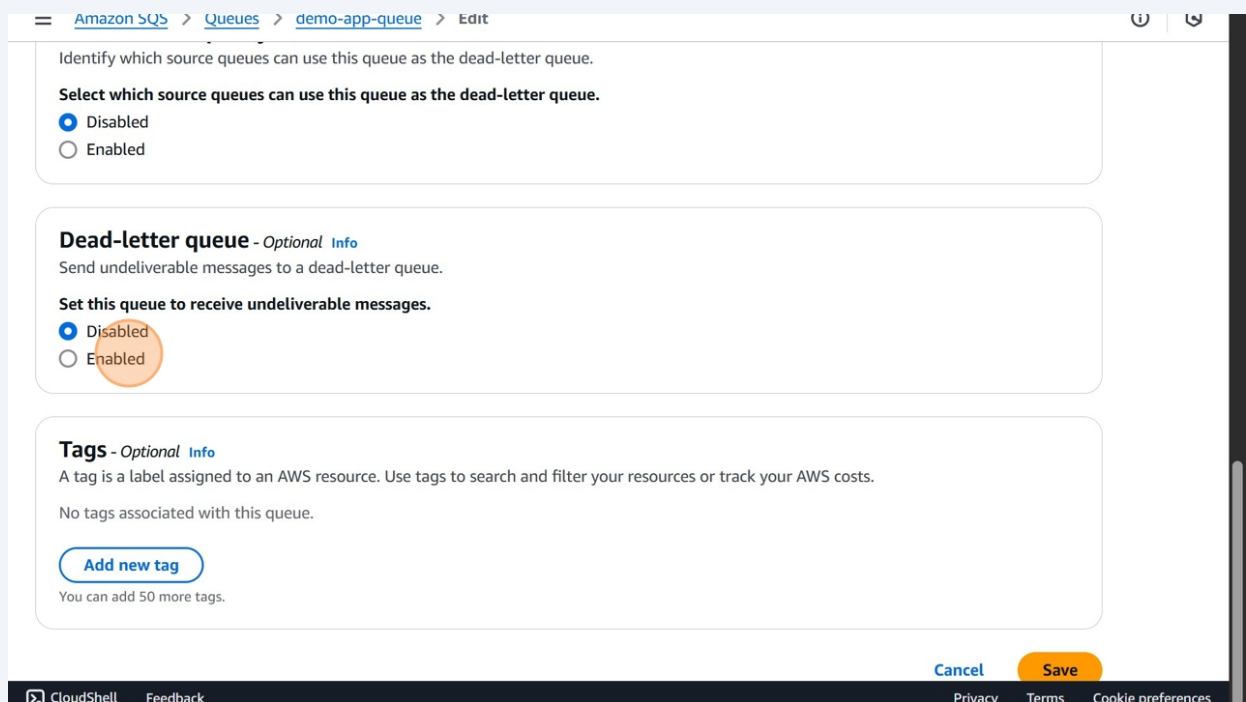
Queues (1) [Refresh](#) [Edit](#) [Delete](#) [Send and receive messages](#) [Actions](#) [Create queue](#)

| | Name | Type | Created | Messages available | Messages in flight | Encryption |
|----------------------------------|------------------------------------|----------|------------------------|--------------------|--------------------|---------------|
| <input checked="" type="radio"/> | demo-app-queue | Standard | 2025-04-14T16:51+05:00 | 0 | 0 | Amazon SQS ke |
| <input type="radio"/> | demo-app-queue-dlq | Standard | 2025-04-14T16:52+05:00 | 0 | 0 | Amazon SQS ke |

15 Click "Edit"



16 Enable dead-letter queue for the source queue.



17 Expand the dead-letter queue ARN drop down

Identify which source queues can use this queue as the dead-letter queue.

Select which source queues can use this queue as the dead-letter queue.

☒ Disabled
☐ Enabled

Dead-letter queue - Optional [Info](#)
Send undeliverable messages to a dead-letter queue.

Set this queue to receive undeliverable messages.

☐ Disabled
☒ Enabled

Choose queue

Queue ARN

Search queues by prefix

Maximum receives

Enter the dead-letter Queue ARN.

10

Use existing resource

Should be between 1 and 1000

End of results

Tags - Optional [Info](#)

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18 Choose dead-letter queue ARN from the drop down

Identify which source queues can use this queue as the dead-letter queue.

Select which source queues can use this queue as the dead-letter queue.

☒ Disabled
☐ Enabled

Dead-letter queue - Optional [Info](#)
Send undeliverable messages to a dead-letter queue.

Set this queue to receive undeliverable messages.

☐ Disabled
☒ Enabled

Choose queue

arn:aws:sqs:eu-central-1:954058727818:demo-app-queue-dlq

Maximum receives

10

Should be between 1 and 1000

Tags - Optional [Info](#)

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19 Click "Save"

☐ Disabled

☒ Enabled

Choose queue

arn:aws:sqs:eu-central-1:954058727818:demo-app-queue-dlq

Maximum receives

10

Should be between 1 and 1000

Tags - Optional [Info](#)

A tag is a label assigned to an AWS resource. Use tags to search and filter your resources or track your AWS costs.

No tags associated with this queue.

Add new tag

You can add 50 more tags.

Cancel

Save

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