

Managed Services on AWS - Hands on Submission 2

CloudWithAWS-TIO-21

1. Create Topic: SNS

Amazon SNS > Topics > content_topic

content_topic Edit Delete Publish message

Details

Name	content_topic	Display name	Content topic
ARN	arn:aws:sns:us-east-1:512497007024:content_topic	Topic owner	512497007024
Type	Standard		

2. Create Queue: SQS

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

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

Name

content_q

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

3. Configuration

Configuration
Set the maximum message size, visibility to other consumers, and message retention. [Info](#)

Visibility timeout [Info](#)

10 Seconds

Should be between 0 seconds and 12 hours.

Delivery delay [Info](#)

0 Seconds

Should be between 0 seconds and 15 minutes.

Receive message wait time [Info](#)

0 Seconds

Should be between 0 and 20 seconds.

Message retention period [Info](#)

15 Minutes

Should be between 1 minute and 14 days.

Maximum message size [Info](#)

64 KB

Should be between 1 KB and 256 KB.

4. Access Policy

Access policy

Define who can access your queue. [Info](#)

Choose method

☐ Basic
Use simple criteria to define a basic access policy.

☒ Advanced
Use a JSON object to define an advanced access policy.

```
3 "Id": "__default_policy_ID",
4 "Statement": [
5 {
6 "Sid": "__owner_statement",
7 "Effect": "Allow",
8 "Principal": {
9 "AWS": "512497007024"
10 },
11 "Action": [
12 "SQS:*"
13 ],
14 "Resource": "arn:aws:sqs:us-east-1:512497007024:content_q"
15 },
16 {
17 "Sid": "Allow-SNS-SendMessage",
18 "Effect": "Allow",
19 "Principal": {
20 "Service": "sns.amazonaws.com"
21 },
22 "Action": "SendMessage",
23 "Resource": "arn:aws:sqs:us-east-1:512497007024:content_q"
24 }
25 ]
26 }
```

[Policy generator](#)

5. Queues

Queues (1)

Search queues by prefix

< 1 >

Name

Type

Created

Messages available

Messages in flight

Encryption

Content-based deduplication

content_q

Standard

Mar 27, 2023,
00:15:32 GMT+5:30

0

0

Amazon SQS key
(SSE-SQS)

-

6. Create Subscription

Create subscription

Details

Topic ARN

Protocol

The type of endpoint to subscribe

Amazon SQS

Endpoint

Only Amazon SQS standard queues will be listed and can receive notifications from an Amazon SNS standard topic.

☐ Enable raw message delivery

After your subscription is created, you must confirm it. [Info](#)

► Subscription filter policy - optional [Info](#)

This policy filters the messages that a subscriber receives.

► Redrive policy (dead-letter queue) - optional [Info](#)

Send undeliverable messages to a dead-letter queue.

Cancel

Create subscription

7. Publish Message

Message details

Topic ARN
arn:aws:sns:us-east-1:512497007024:content_topic

Subject - *optional*

Maximum 100 printable ASCII characters

Time to Live (TTL) - *optional* [Info](#)
This setting applies only to mobile application endpoints. The number of seconds that the push notification service has to deliver the message to the endpoint.

Message body

Message structure

☒ **Identical payload for all delivery protocols.**
The same payload is sent to endpoints subscribed to the topic, regardless of their delivery protocol.

☐ **Custom payload for each delivery protocol.**
Different payloads are sent to endpoints subscribed to the topic, based on their delivery protocol.

Message body to send to the endpoint

1 This is a sample message

Message attributes [Info](#)
Message attributes let you provide structured metadata items (such as timestamps, geospatial data, signatures, and identifiers) for the message.

Type	Name	Value	
<input type="text" value="String"/>	<input type="text" value="attr1"/>	<input type="text" value="value1"/>	<input type="button" value="Remove"/>

8. SQS management Console Shows Message available 1

Amazon SQS > Queues

Queues (1)

< 1 > ⌕

	Name	Type	Created	Messages available	Messages in flight	Encryption	Content-based deduplication
<input type="radio"/>	content_q	Standard	Mar 27, 2023, 00:15:32 GMT+5:30	1	0	Amazon SQS key (SSE-SQS)	-