Module-7 Assignment – 4
SQS and SES

You have been asked to:

1. Create a FIFO SQS Queue and test by sending messages
2. Register your mail in SES and send a test mail to yourself

Get started

Learn how to use Amazon SQS by creating a queue, sending a message to the queue, and receiving and processing the message.

Create queue

Create queue

Details

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

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

○ **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

Name

m7a4_sqs.fifo

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

1. Search for "SQS"
2. Select and open SQS
3. Click on Create Queue
4. Select FIFO as type
5. Give it a name ending with ".fifo"

Tags - *Optional*

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

Key	Value - *optional*	
🔍 Name	🔍 m7a4_sqs ✕	Remove
🔍 createdBy ✕	🔍 Hariharan Narayanan ✕	Remove

Hariharan Narayanan

⟳ Loading tag values

Add new tag

You can add 48 more tags.

6

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Cancel   **Create queue**

⊘ **Queue m7a4_sqs.fifo created successfully**
You can now send and receive messages.

Amazon SQS > Queues > m7a4_sqs.fifo

m7a4_sqs.fifo

Edit   Delete   Purge   Send and receive messages   Start DLQ redrive

Details Info

8

Name	Type	ARN
⧉ m7a4_sqs.fifo	FIFO	⧉ arn:aws:sqs:us-east-1:098760042302:m7a4_sqs.fifo

Encryption	URL	Dead-letter queue
Disabled	⧉ https://sqs.us-east-1.amazonaws.com/098760042302/m7a4_sqs.fifo	-

▶ More

| SNS subscriptions | Lambda triggers | Dead-letter queue | Monitoring | Tagging | Access policy | Encryption |

Subscription region
us-east-1 ▼

SNS subscriptions (0) Info

🔄   View in SNS ⧉   Delete   **Subscribe to Amazon SNS topic**

🔍 Search subscriptions

◁ 1 ▷   ⚙

	Subscription ARN ▼	Topic ARN ▽

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6. Create tags as needed
7. Create queue
8. Verify that SQS is
created corectly

Queues (1)

Edit | Delete | Send and receive messages | Actions ▼ | Create queue

10

Search queues by prefix

< 1 >

Name ▲	Type ▽	Created ▽	Messages available ▽	Messages in flight ▽	Encryption	...tent-based deduplication ▽
m7a4_sqs.fifo **9**	FIFO	16/1/2022, 09:34:27 IST	1	0	Disabled	Disabled

Send and receive messages

Send messages to and receive messages from a queue.

Send message Info

Clear content | Send message ← **14**

⊘ **Your message has been sent and is ready to be received.**   View details   ✕

Message body
Enter the message to send to the queue.

Hello   **11**

Message group ID
The tag that specifies that a message belongs to a specific message group.

Hello_message_group   **12**

Message deduplication ID
The token used for deduplication of messages within   **13**

Hello_message_dedup_id

▶ Message attributes - *Optional* Info

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9. Select the SQS queue
10. Select "send and receive messages"
11. Fill the message
12. Give the message group id

13. Give deduplication id
14. Send the message

Receive messages Info

Edit poll settings | Stop polling | Poll for messages

Messages available
2

Polling duration
30

Maximum message count
10

Polling progress
✓
2 receives/second

15

Messages (2)

View de... ...lete

🔍 Search messages

< 1 > ⚙

	ID	Sent	▼	Size	Receive count	▽
☐	55d5276f-68db-4af6-afcc-bd3430a1dee5	1/2022, 11:08:26 IST		12 bytes	3	
☐	99bf6235-c782-4143-a20b-4807ac16c841	2022, 11:21:57 IST		5 bytes	1	

16

Message: 99bf6235-c782-4143-...ac16c841 ✕

Details **17** ...utes

ID
99bf6235-c782-4143-a20b-4807ac16c841

Size
5 bytes

MD5 of message body
8b1a9953c4611296a827abf8c47804d7

Sender account ID
098760042302

Sent
16/1/2022, 11:21:57 IST

First received
16/1/2022, 11:22:03 IST

Receive count
1

Message attributes count
-

Message attributes size
-

MD5 of message attributes
-

Message group ID
Hello_message_group

Message deduplication ID
Hello_message_dedup_id

Sequence number
18867176027064816640

Done

Message: 99bf6235-c782-4143-a20b-4807ac16c841 ✕

Details **Body** **18**

Hello

19 Done

Q ses

20

Search results for 'ses '

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Services (30)

Services

Features (72)

Amazon Simple Email Service

Blogs (6,225)

Email Sending and Receiving Service

Documentation (41,610)

Send your first email

Get started by creating and verifying a *sender identity* - a domain or email address you use to send email through Amazon SES.

Create identity **22**

Tags - *optional* Info

You can add one or more tags to help manage and organize your resources, including identities.

Key	Value - *optional*	
Q Name ✕	Q m7a4ses ✕	Remove
Q CreatedBy ✕	Q Hariharan Narayanan ✕	Remove

Add new tag

You can add 48 more tags.

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Cancel   **Create identity**

Create identity

A *verified identity* is a domain, subdomain, or email address you use to send email through Amazon SES. Identity verification at the domain level extends to all email addresses under one verified domain identity.

Identity details Info

Identity type

○ Domain
To verify ownership of a domain, you must have access to its DNS settings to add the necessary records.

● Email address
To verify ownership of an email address, you must have access to its inbox to open the verification email.

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Email address

enhariharan@gmail.com   **24**

Email address can contain up to 320 characters, includ... ...+), equals signs (=) and underscores (_).

☐ Assign a default configuration set
Enabling this option ensures that the assigned configuration set is applied to messages sent from this identity by default whenever a configuration set isn't specified at the time of sending.

20. Type "ses " in search
21. Click to open SES
22. Create identity
23. Select email address
24. Provide email
25. Create tags as needed
26. Create identity

Verified identities

A *verified identity* is a domain, subdomain, or email address you use to send email through Amazon SES. Learn more ⧉

Identities (1)

Send test email | Delete | Create identity

🔍 Search all domain and email address identities

☑	Identity ▲	Identity type	Status ▼
☑	enhariharan@gmail.com	Email address	⊗ Unverified

Amazon Web Services – Email Address Verification Request in region US East (N. Virginia) 🏷️ Inbox ×

🖨 ⧉

Amazon Web Services <no-reply-aws@amazon.com>   11:49 (3 minutes ago) ☆ ↩ ⋮

to me ▾

Dear Amazon Web Services Customer,

We have received a request to authorize this email address for use with Amazon SES and Amazon Pinpoint in region US East (N. Virginia) ... d this verification, please go to the following URL to confirm that you are authorized to use this email address:

https://email-verification.us-east-1.amazonaws.com/?Context=098760042302&X-Amz-Date=20220116T061900Z&Identity.IdentityName=enhariharan%40gmail.com&X-Amz-Algorithm=AWS4-HMAC-SHA256&Identity.IdentityType=EmailAddress&X-Amz-SignedHeaders=host&X-Amz-Credential=AKIAVM67ZIEFRDECB3HF%2F20220116%2Fus-east-1%2Fses%2Faws4_request&Operation=ConfirmVerification&Namespace=Bacon&X-Amz-Signature=1f4a0e0969f75f3c94da63035047623ed6f4ecb271529a0bb6bb11cb6e4bb754

Congratulations!

You have successfully verified an email address. You can now start sending email from this address.

Verified identities

A *verified identity* is a domain, subdomain, or email address you use to send email through Amazon SES. Learn more ⧉

Identities (1)

Send test email | Delete | Create identity

🔍 Search all domain and email address identities

☐	Identity ▲	Identity type	Status ▼
☐	enhariharan@gmail.com	Email address	⊘ Verified

27. e-mail will be unverified
28. Check email for verification link. Click on it
29. It should open a new page to confirm that email is verified
30. Go back to SES console to check if email is verified

Amazon SES > Configuration: Verified identities

Verified identities

A *verified identity* is a domain, subdomain, or email address you use to send email through Amazon SES. Learn more ⬚

Account dashboard

Reputation metrics

▼ Configuration

Verified identities

Configuration sets

Dedicated IPs

Email templates

Suppression list New

Identities (1)

🔍 Search all domain and email address identities

☑	Identity	▲	Identity type	▽	Status	▽
☑	enhariharan@gmail.com		Email address		⊘ Verified	

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32 Send test email   Delete   Create identity

Send test email Info

The Amazon SES mailbox simulator lets you test how your application handles different email sending scenarios. Emails that you send to the mailbox simulator do not count towards your sending quota or your bounce and complaint rates.
Learn more ⬚

Message details

Email format

○ Formatted
Choose this option if you want to construct a simple test message using the form provided. SES takes the information entered in the form and parses it into email format for you.

● Raw
Choose this option if you want to send a more complex test message, such as one that uses HTML or includes attachments. This option requires you to format the entire message yourself.

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From-address

enhariharan@gmail.com

34

Scenario Info

Choose the email sending scenario that you want to ... Each scenario corresponds to a different recipient email address managed by the mailbox simulator. To specify a custom reci...

Custom ▼

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Custom recipient

While your account is in the Amazon SES sandbox, ... send test emails to other verified identities. If you've verified an identity at the domain level, you can send a test email to ... der that verified domain.

enhariharan@gmail.com

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Message Info

Your message must be constructed using MIME formatting and must specify all of the message headers, as well as the message body.

This is a Test message to confirm if SES send email is working as expected.

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▶ Additional configurations - *optional*

Cancel   Send test email   **38**

⊘ Successfully sent a test email to enhariharan@gmail.com

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31. Select the email
32. Select send test email
33. Select a format
34. Select from email
35. Select a scenario
36. Select a recipient
37. Type the message
38. Send the email
39. Verify that test email is sent successfully