Assignment – 3 – CloudFormation - SES AND SQS

Problem Statement:

You work for XYZ Corporation. Your team is asked to deploy similar architecture multiple times for testing, development, and production purposes. Implement CloudFormation for the tasks assigned to you below.

Tasks To Be Performed:

1. Create a FIFO SQS queue and test by sending messages.

2. Register your mail in SES and send a test mail to yourself.

TASK 1: Create a FIFO SQS Queue & Test It

Step 1: Understand What You're Creating

A FIFO SQS queue:

- **Ends with .fifo**
- **Needs FifoQueue: true**
- **Needs ContentBasedDeduplication**

Create Task 1 CloudFormation Template

1. **Open Notepad**
2. **Paste the following code**
3. **Save the file as task1-sqs-fifo.yaml**

Paste below code on notepad

```
AWSTemplateFormatVersion: '2010-09-09'

Description: Task 1 - Create FIFO SQS Queue


Resources:

 MyFifoQueue:

  Type: AWS::SQS::Queue

  Properties:

   QueueName: my-test-queue.fifo

   FifoQueue: true
```

ContentBasedDeduplication: true

task1-sqs-fifo.yaml

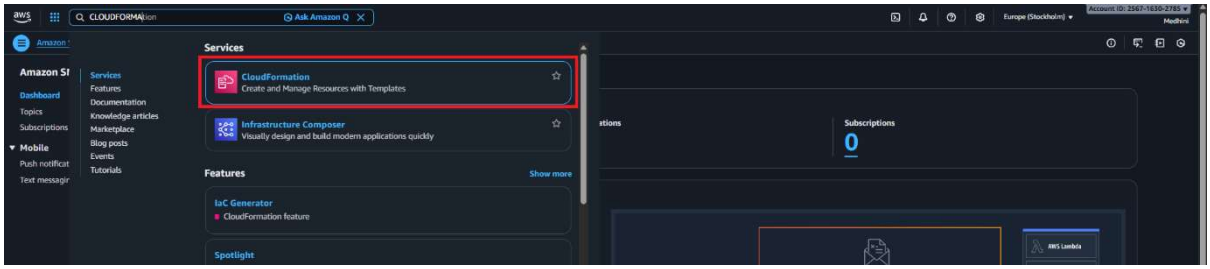
File Edit View

```
AWSTemplateFormatVersion: '2010-09-09'
Description: Task 1 - Create FIFO SQS Queue

Resources:
  MyFifoQueue:
    Type: AWS::SQS::Queue
    Properties:
      QueueName: my-test-queue.fifo
      FifoQueue: true
      ContentBasedDeduplication: true
```

Step 2: Create Stack in AWS Console

- Go to **AWS Console**
- Search **CloudFormation**
- Click **Create stack**
- Choose **Upload a template file**
- Upload **task1-sqs-fifo.yaml**
- Click **Next**
- Stack name: **task1-sqs-stack**
- Click **Next - Next**
- Check Acknowledge
- Click **Create stack**



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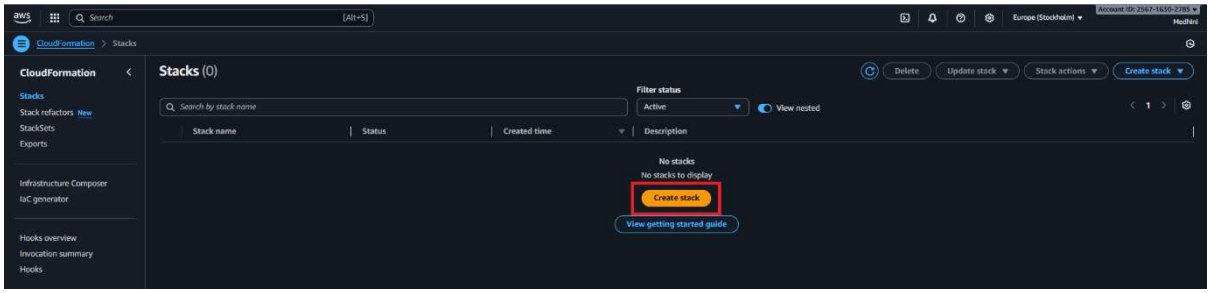
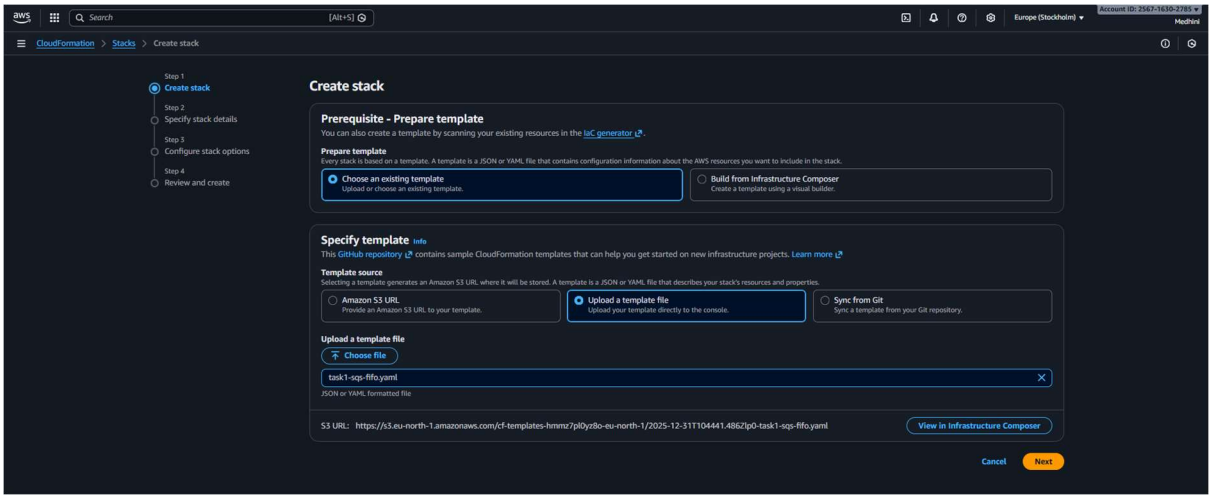
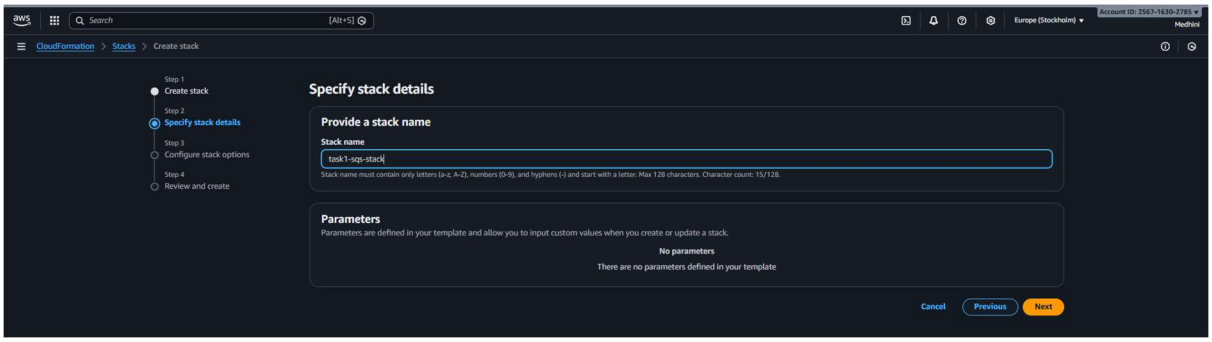
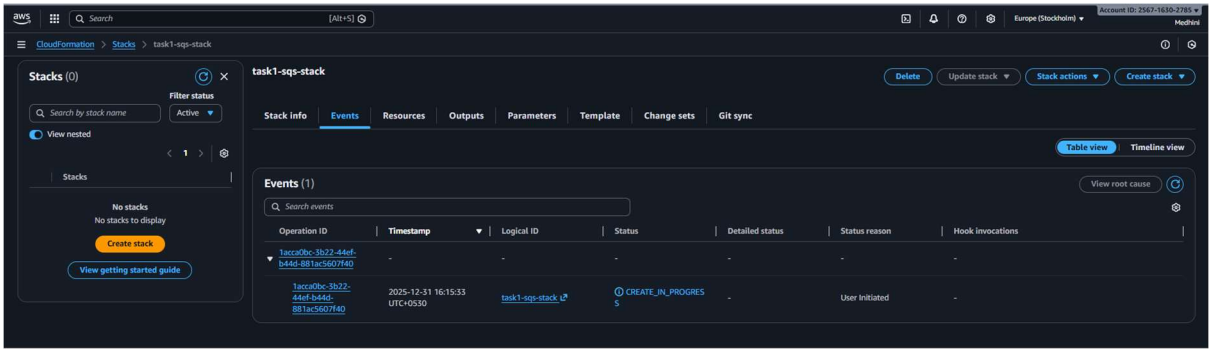


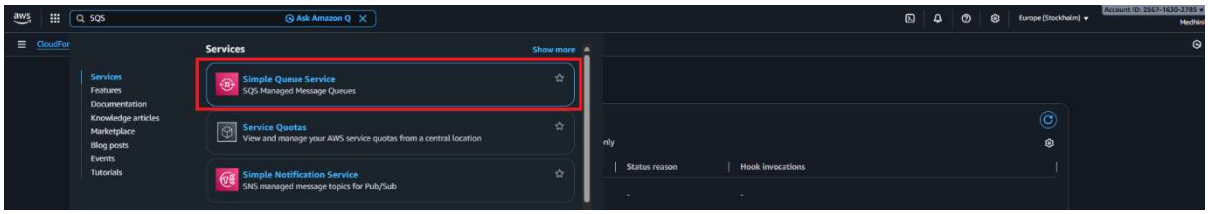


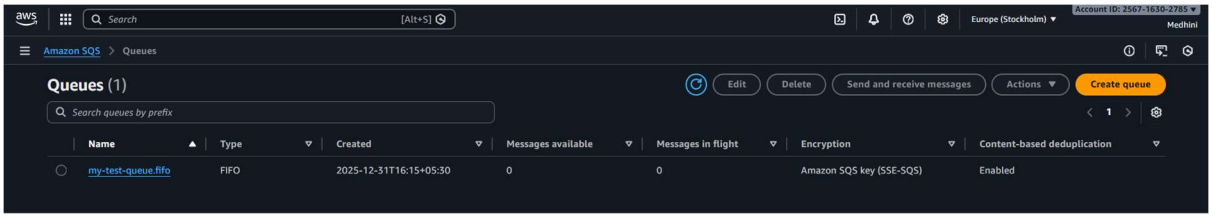




Step 4: Verify FIFO Queue

- **Go to SQS**
- **Click Queues**
- **You should see my-test-queue.fifo**



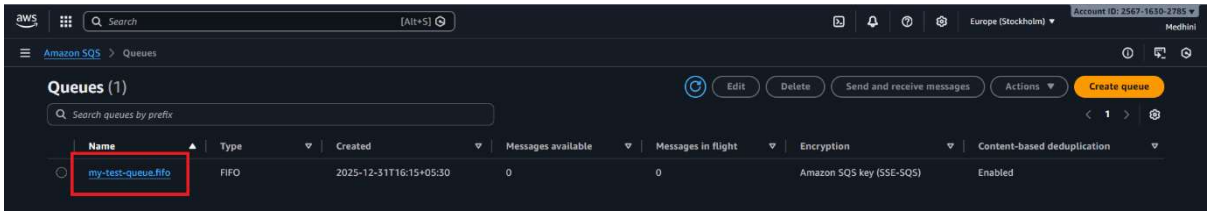


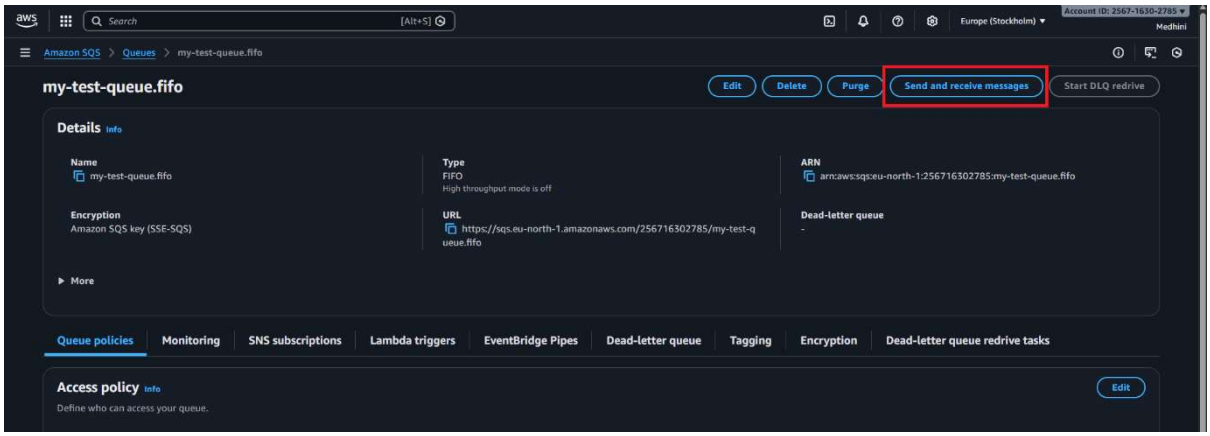
Step 5: Send a Test Message (VERY IMPORTANT)

- **Open the queue**
- **Click Send and receive messages**
- **Message body:**

Hello from FIFO queue

Click on queue





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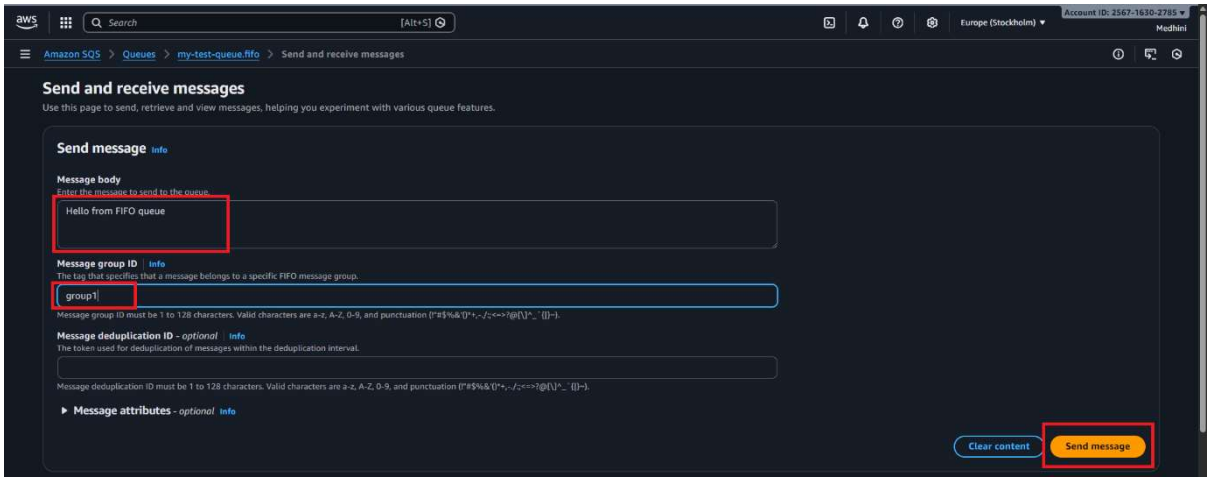
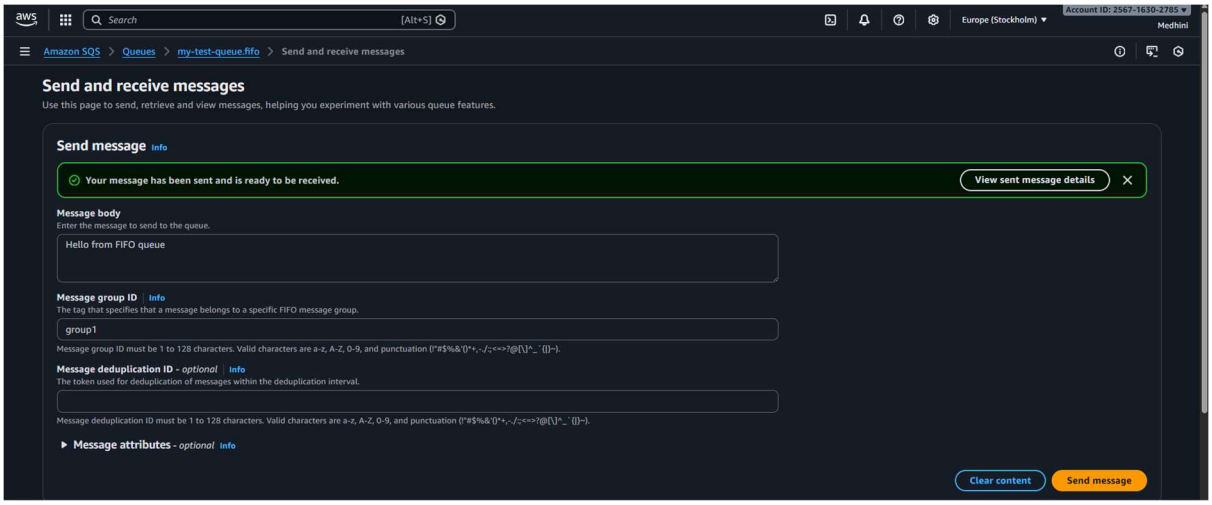
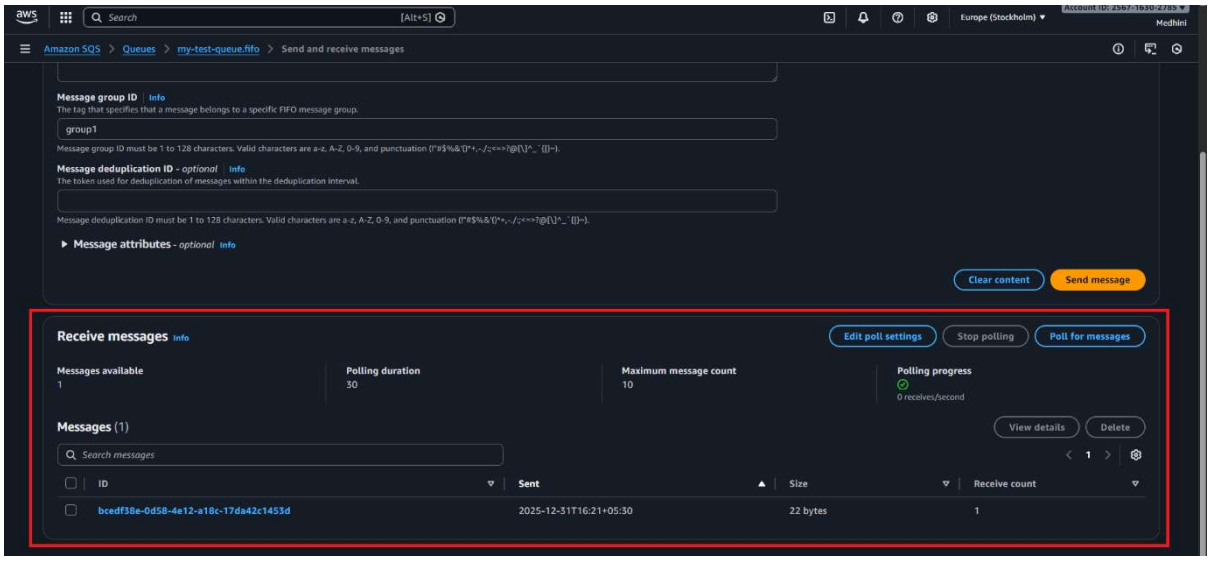






Message received - Task 1 COMPLETE

TASK 2: Register Email in SES & Send Test Mail

Step 1: Understand SES Sandbox (Important)

By default:

- You can send emails ONLY to verified email addresses
- So we will verify your own email

Step 2: Create Task 2 CloudFormation Template

1. Open **Notepad**
2. Paste this
3. Replace your-email@example.com with **your real email**
4. Save as **task2-ses.yaml**

AWSTemplateFormatVersion: '2010-09-09'

Description: Task 2 - Verify SES Email Identity

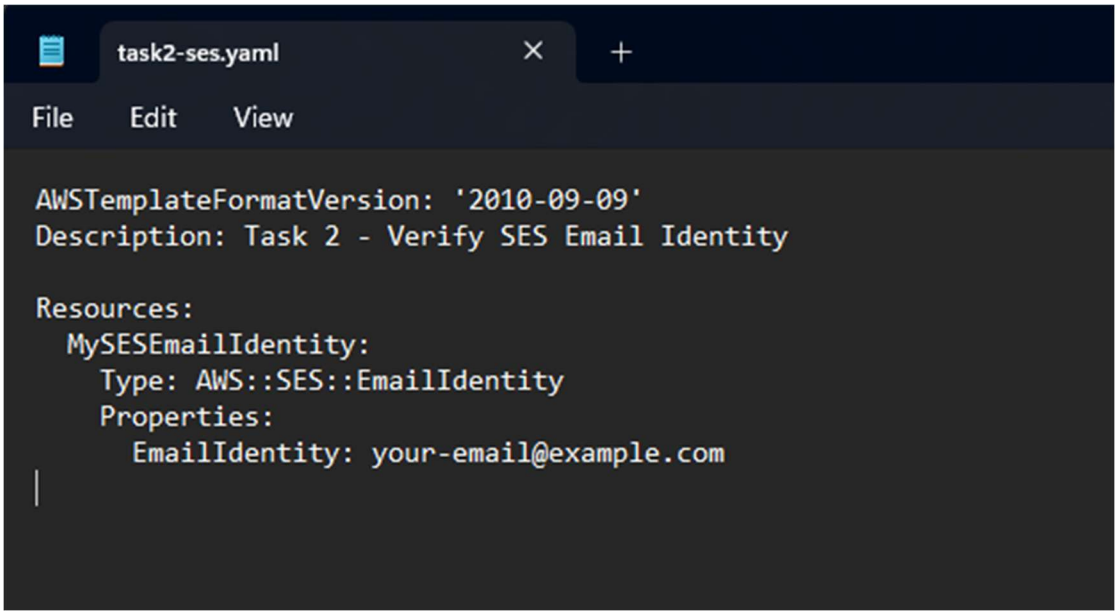
Resources:

MySESEmailIdentity:

Type: AWS::SES::EmailIdentity

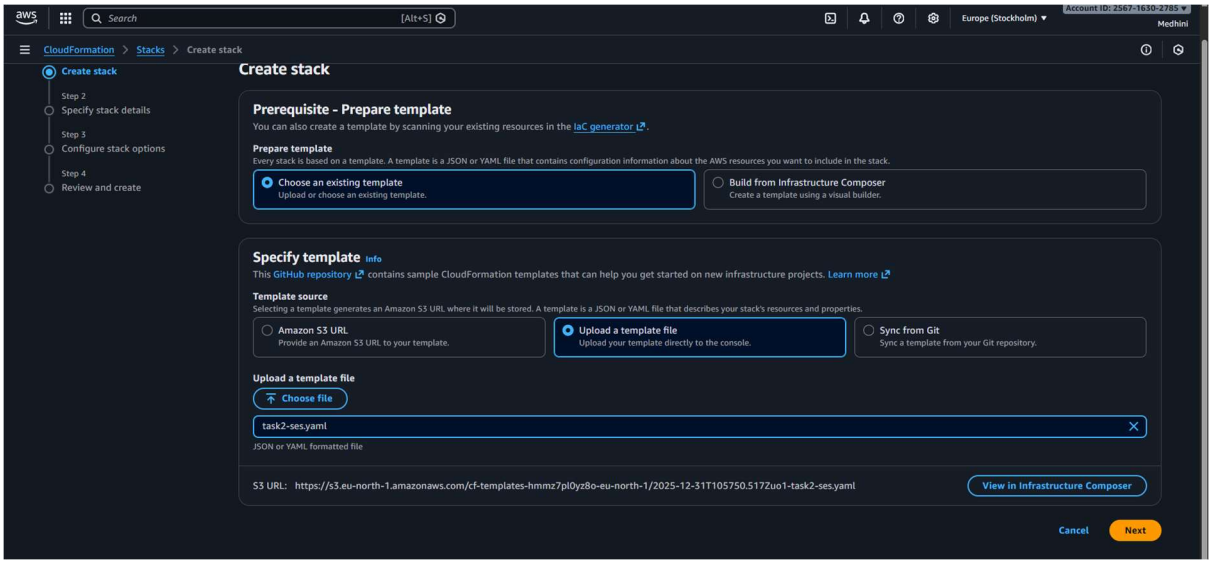
Properties:

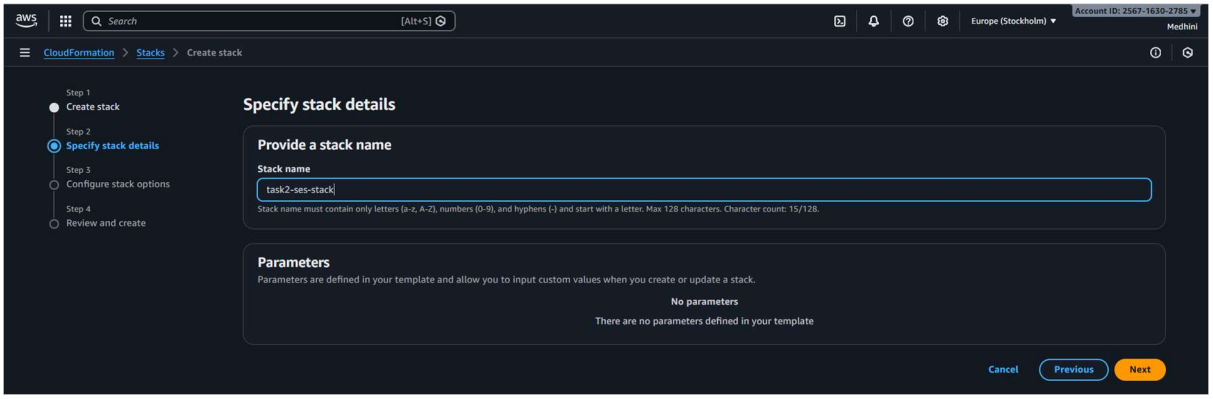
EmailIdentity: your-email@example.com



Step 3: Create SES Stack

- Go to **CloudFormation**
- Click **Create stack**
- Upload **task2-ses.yaml**
- Stack name:
  task2-ses-stack
- Click **Next - Next**
- Click **Create stack**





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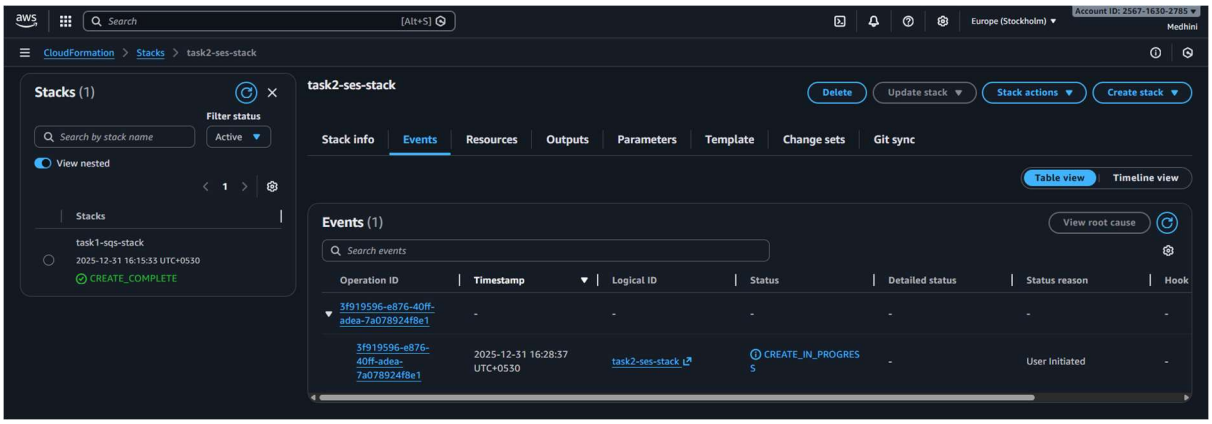
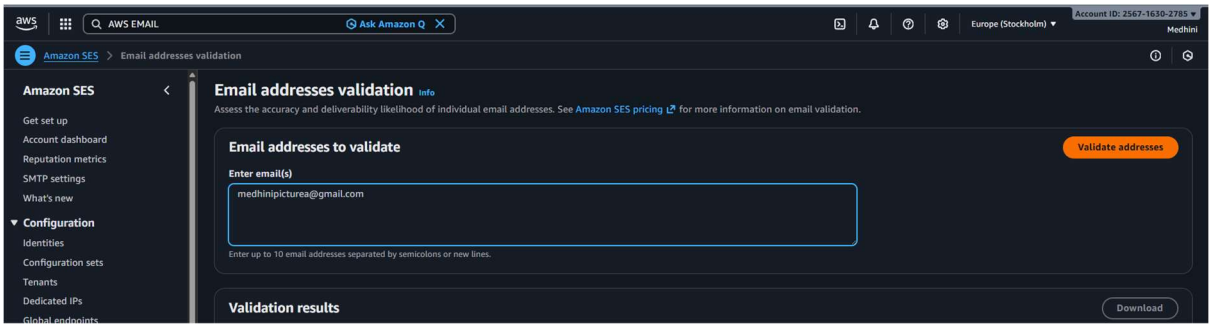


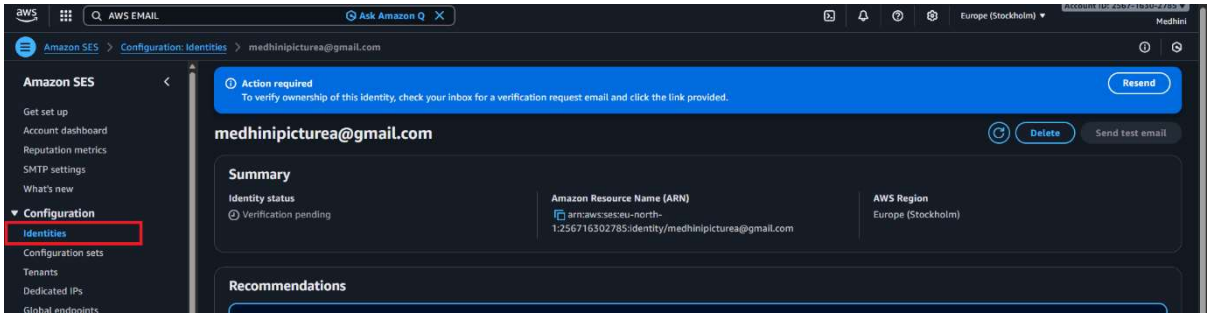
Verify Email (VERY IMPORTANT)

1. Check your **email inbox**
2. You will get an email from **AWS SES**
3. Click **Verify email address**

Now SES is allowed to send mail to you



Vefiry email address



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Go to email

Amazon Web Services – Email Address Verification Request in region Europe (Stockholm) Inbox ×

Amazon Web Services <no-reply-aws@amazon.com>
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 Europe (Stockholm). If you requested this verification, please go to the following URL address:

https://email-verification.eu-north-1.amazonaws.com/?Context=256716302785&X-Amz-Date=20251231T113425Z&Identity.IdentityName=medhinipicturea%40gmail.com&X-Amz-Algorithm=AWS4-HMAC SignedHeaders=host&X-Amz-Credential=AKIA4Y3674RZBFCNGZUE%2F20251231%2Feu-north-1%2Fses%2Faws4_request&Operation=ConfirmVerification&Namespace=Bacon&X-Amz-Signature=bl d8e1cf94462c30

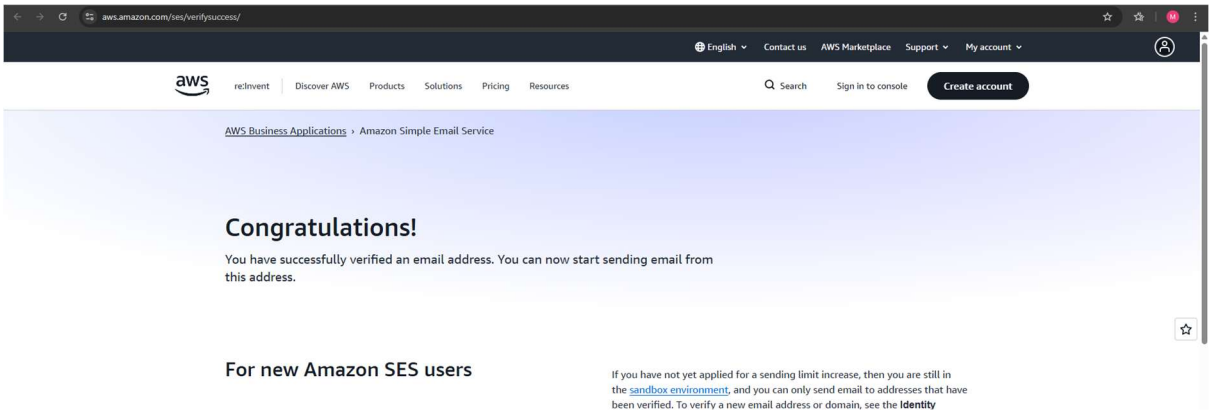
Your request will not be processed unless you confirm the address using this URL. This link expires 24 hours after your original verification request.

If you did NOT request to verify this email address, do not click on the link. Please note that many times, the situation isn't a phishing attempt, but either a misunderstanding of how to use our service, or s behalf as part of a legitimate service, but without having fully communicated the procedure first.

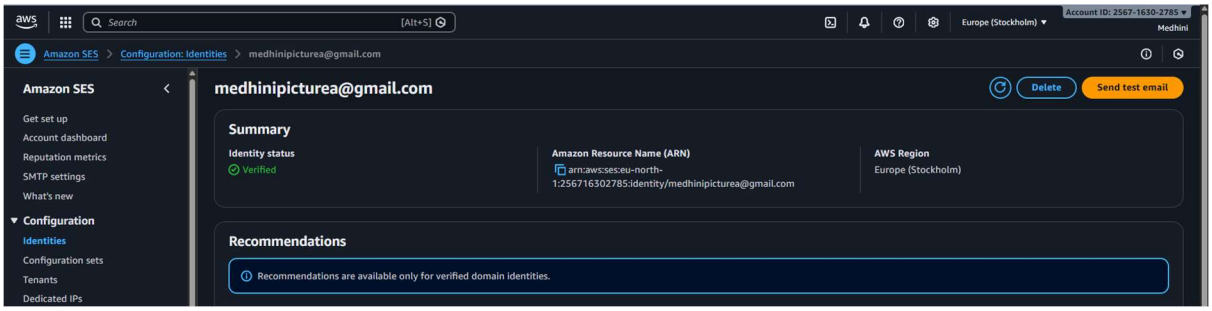
To learn more about sending email from Amazon Web Services, please refer to the Amazon SES Developer Guide at http://docs.aws.amazon.com/ses/latest/DeveloperGuide/Welcome.html and Amazon http://docs.aws.amazon.com/pinpoint/latest/userguide/welcome.html.

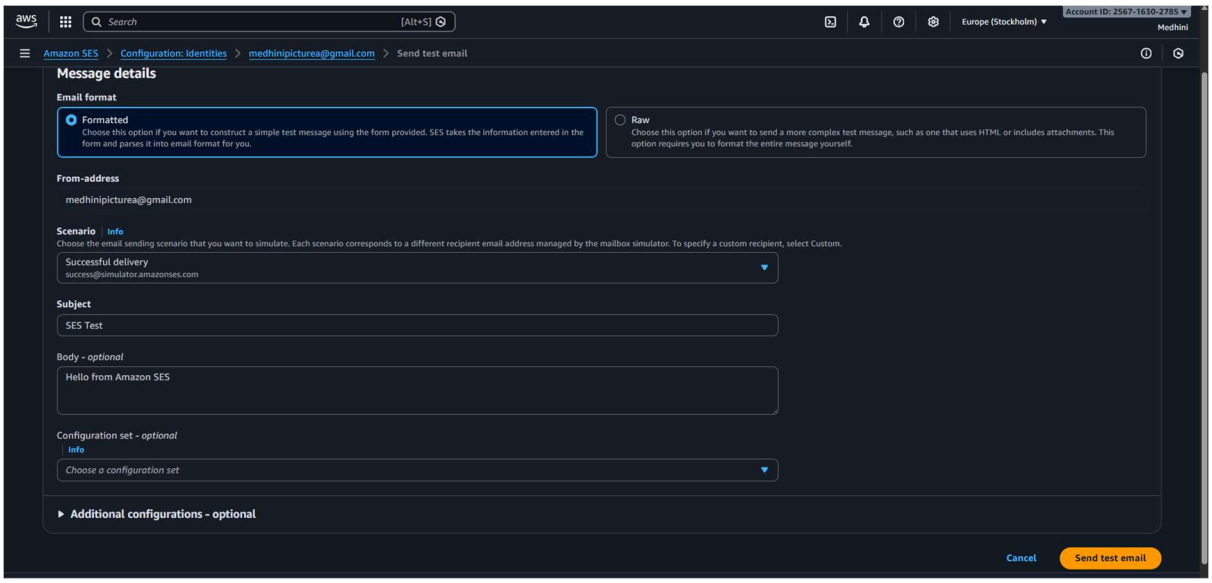
Sincerely,

The Amazon Web Services Team.



Send Test email





Important note

- The simulator address **will NOT send an email to your inbox**
- This still **counts as a successful test**
- AWS instructors & assignments **accept this**

"Verified an email identity in Amazon SES and successfully sent a test email using the SES mailbox simulator."