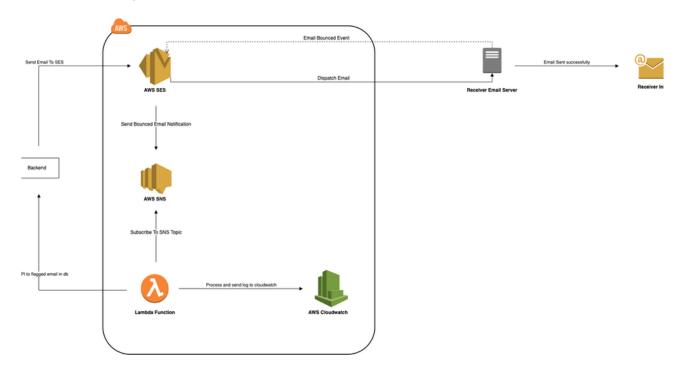
AWS SES - Bounced Emails

What was the problem?

What we have done to fix this issue?

Architecture Diagram



Configurations Steps

The AWS CloudFormation template facilitates the automatic configuration of various architecture components to capture comprehensive bounce notifications and log them in Amazon CloudWatch. However, some manual tasks are still required.

Enable Amazon Simple Notification Service (Amazon SNS) and create a topic to capture the notifications.

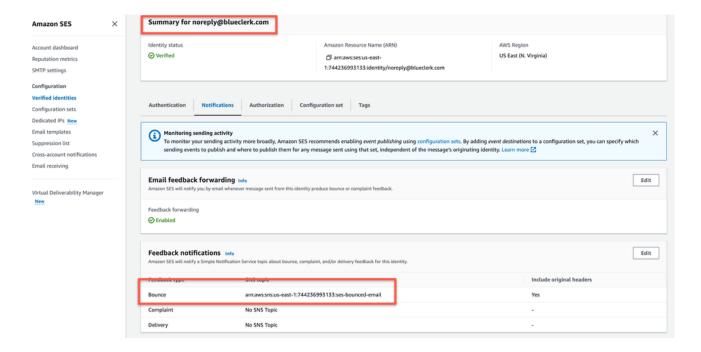
To create a new topic in AWS SNS, follow these steps:

- 1. Go to the Topics page and click on the "Create topic" button.
- 2. On the Create topic page, fill out the following details in the "Details" section:
 - a. Enter a name for the topic that describes its purpose or content. (ses-bounced-email)
 - b. Leave the remaining options at their default settings.
 - c. Enter a display name for the topic, which can be more user-friendly and descriptive than the name.
 - d. Click the **Create topic** button to create the new topic.
- 3. Once the topic is created, copy the topic ARN (Amazon Resource Name) to your clipboard. The ARN uniquely identifies the topic and is needed to subscribe to it or publish messages to it.

Integrate SNS topic with SES domain

Set up notifications at the domain or email address level to capture the notifications you want to log into CloudWatch.

- Select the Verified Identity domain name for which you want to set up bounce notifications
- Click on the Notifications tab and select the Feedback Notifications section.
- Click the edit button to navigate to the next page.
- Choose the SNS Topic ARN that you created in the prior step from the dropdown menu and update the Bounce Notifications topic.
- Click Save Changes to complete the setup process.

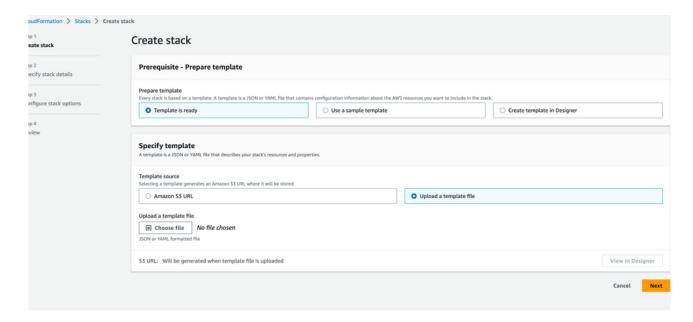


Steps to run the CloudFormation template:

Navigate to the CloudFormation Console and select Create Stack.



- Select the Upload template file radio button and upload the provided YML file located at the bottom.
- · Proceed to the next screen by clicking Next on the Create Stack page.



- · Provide a Stack Name, such as "ses-bounce-logging".
- Enter the ExternalApiLink endpoint to flag invalid emails.
- Select "Bounce" as the Event Type.
- Enter the Amazon Resource Name (ARN) of the Amazon SNS topic created in the prior step in the SNSTopicName parameters field.
- Proceed to the next screen by clicking Next.
- On the Configure stack options screen, click Next.
- Select "I acknowledge that AWS CloudFormation might create IAM resources" and click Create Stack to complete the setup process.

After the CloudFormation template has finished running, verify that the resources in the CloudFormation stack have been created. Click on each resource to ensure they have been created successfully.

Sandbox Testing