**Lambda Function Python Code**

import boto3

import csv

# Initialize the boto3 client

s3\_client = boto3.client('s3')

ses\_client = boto3.client('ses')

def lambda\_handler(event, context):

    # Specify the S3 bucket name

    bucket\_name = 'ttt-email-marketing' **# Replace with your bucket name**

    try:

        # Retrieve the CSV file from S3

        csv\_file = s3\_client.get\_object(Bucket=bucket\_name, Key='contacts.csv')

        lines = csv\_file['Body'].read().decode('utf-8').splitlines()

        # Retrieve the HTML email template from S3

        email\_template = s3\_client.get\_object(Bucket=bucket\_name, Key='email\_template.html')

        email\_html = email\_template['Body'].read().decode('utf-8')

        # Parse the CSV file

        contacts = csv.DictReader(lines)

        for contact in contacts:

            # Replace placeholders in the email template with contact information

            personalized\_email = email\_html.replace('{{FirstName}}', contact['FirstName'])

            # Send the email using SES

            response = ses\_client.send\_email(

                Source='you@yourdomainname.com',  **# Replace with your verified "From" address**

                Destination={'ToAddresses': [contact['Email']]},

                Message={

                    'Subject': {'Data': 'Your Weekly Tiny Tales Mail!', 'Charset': 'UTF-8'},

                    'Body': {'Html': {'Data': personalized\_email, 'Charset': 'UTF-8'}}

                }

            )

            print(f"Email sent to {contact['Email']}: Response {response}")

    except Exception as e:

        print(f"An error occurred: {e}")

**Lambda Function Test Event**

{

  "comment": "Generic test event for scheduled Lambda execution. The function does not use this event data.",

  "test": true

}

**IAM Policy for SES and S3 permissions**

**Update the ARN to use your S3 bucket**

{

    "Version": "2012-10-17",

    "Statement": [

        {

            "Effect": "Allow",

            "Action": [

                "s3:GetObject"

            ],

            "Resource": **"arn:aws:s3:::ttt-email-marketing/\*"**

        },

        {

            "Effect": "Allow",

            "Action": [

                "ses:SendEmail",

                "ses:SendRawEmail"

            ],

            "Resource": "\*"

        }

    ]

}