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import json
import boto3

def lambda_handler(event, context):
    # hardcoded JSON message
    hard_msg = '{"desired":{"restaurant":"Burgers and Brew","address":"255 2nd St, Davis, CA 95616","location":"38.330002,-121.459999"}}'

    # notification JSON message
    rec_msg = json.dumps(event)

    # parse JSON
    #parse_msg = json.loads(hard_msg)
    parse_msg = json.loads(rec_msg)

    # extract message from JSON
    #data_address = parse_msg['desired']['address']['location']
    data_address = parse_msg['desired']['address']
    data_loc = parse_msg['desired']['location']

    # create sns client
    sns_client = boto3.client('sns')

    # send message
    sns_client.publish(
        TopicArn='arn:aws:sns:us-east-1:217374856352:EEC172-Lab5',
        Message=f'{data_address}, {data_loc}',
        Subject='New Location'
    )

    #return extracted message
    return {
        'statusCode': 200,
        'body': {
            #'restaurant': data_restaurant.strip(""),
            'address': data_address.strip(""),
            'location': data_loc.strip("")
        }
    }

```