Project: AWS Lambda Trigger on S3 Bucket Creation

Step 1: Sign in to your AWS Account

- Access AWS Management Console:
- Log in to the AWS Console.

Step 2: Set Up IAM Role

1. Navigate to IAM:
   - Go to IAM.

2. Create IAM Role:
   - Choose Lambda service, attach `AWSLambdaBasicExecutionRole` and `AmazonS3ReadOnlyAccess`.
   - Name the role (e.g., `LambdaS3Role`).

Step 3: Create Lambda Function

1. Navigate to Lambda:
   - Go to Lambda.

2. Create Lambda Function:
   - Choose Python runtime, use the IAM role, and create.

3. Configure Function Code:
   - Replace default code with provided Python code.

This is code just copy and paste it (remove default code)

```
import json

def lambda_handler(event, context):
    # Log the event information
    print("S3 bucket creation event:", json.dumps(event, indent=2))

    # Add your custom logic here

    return {
        'statusCode': 200,
        'body': json.dumps('Lambda function executed successfully!')
    }
```

Step 4: Add Event Notification to S3 Bucket

1. Navigate to S3:
   - Go to S3.

2. Configure Event Notification:
   - Select the S3 bucket (if not ,create one)
   - Under "Event notifications," click "Create" and configure.

3. Specify Events and Destination:
   - Choose "All object create events" and select Lambda function.

4. Review and Save:
   - Review settings and save changes.

Step 5: Test the Setup

1. Upload File to S3 Bucket:
   - Go to S3 Console.
   - Upload a file to the bucket.

2. Check Lambda Logs:
   - Go to Lambda Console.
   - Open your function, navigate to "Monitoring," and check CloudWatch Logs.

3. Review Lambda Output:
   - Inspect Cloud Watch Logs for Lambda function execution details.