

STEPS INVOLVED

1 Create an S3 Bucket

1. Go to **Amazon S3**
2. Click **Create bucket**
3. Provide a unique bucket name
4. Create the bucket

This bucket will be used to upload input files.

2 Create a Lambda Function + Add S3 Trigger

Create Lambda

1. Go to **AWS Lambda**
2. Click **Create function**
3. Choose **Author from scratch**
4. Runtime: **Python 3.x**
5. Create the function

Add Trigger

1. Inside Lambda → **Add trigger**
2. Select **S3**
3. Choose your bucket
4. Event type: **PUT**
5. Save

Now whenever a file is uploaded to S3, Lambda will run automatically.

3 Add Lambda Code to Trigger the Glue Job

Paste the following code into your Lambda function:

```
import boto3

glue = boto3.client("glue")

def lambda_handler(event, context):

    glue.start_job_run(JobName="export")

    return {"statusCode": 200, "body": "Glue job export started"}
```

Replace "export" with your actual Glue Job name if different.

Required Lambda Permissions

Lambda execution role must allow:

- glue:StartJobRun
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4 Create an AWS Glue Job

1. Go to **AWS Glue**
 2. Create a new **Glue Job**
 3. Give it a name (example: export)
 4. Configure script/source/target based on your requirement
 5. Save and test-run the job
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5 Create an SNS Topic for Email Notifications

1. Go to **Amazon SNS**
2. Click **Create topic**
3. Type: **Standard**
4. Name the topic
5. Create the topic

Subscribe Email

1. Open the created topic
2. Click **Create subscription**
3. Protocol: **Email**
4. Enter your email address

5. Confirm subscription from your email inbox

Create an EventBridge Rule to Invoke SNS when Glue Job Runs

1. Go to **Amazon EventBridge**
 2. Create a **Rule**
 3. Choose **Event pattern**
 4. Source: **AWS services**
 5. Service: **Glue**
 6. Event type: **Glue Job State Change**
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Target

Set target as:

SNS Topic

Now whenever the Glue job runs, EventBridge will notify SNS, and SNS will send an email.

Final Output

Whenever you upload a file into the S3 bucket:

- Lambda triggers the Glue job
 - Glue runs the ETL
 - EventBridge sends Glue job status events
 - SNS sends an email notification
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