

Part 1

Creating a S3 Bucket

source.107 Bucket and destination.107 Bucket created on S3 Bucket. Region is N.Virginia, Block is all public access NACL disabled.

	Name ▲	AWS Region ▼	Access ▼	Creation date
<input type="radio"/>	destination.107	US East (N. Virginia) us-east-1	Bucket and objects not public	June 25, 2023, 15:52:18 (UTC-04:00)
<input type="radio"/>	source.107	US East (N. Virginia) us-east-1	Bucket and objects not public	June 25, 2023, 15:51:40 (UTC-04:00)

Part 2

Step 1

Create IAM Role

AmazonS3FullAccess is given on IAM Role for Lambda named LambdaS3ReplicaRole.

<input type="checkbox"/>	ec2-s3-role	AWS Service: ec2	107 days ago
<input type="checkbox"/>	LambdaS3ReplicaRole	AWS Service: lambda	-

Step 2

Create Lambda Function

Author from scratch selected. S3-replicate-function is the name of the function. Python 3.9 is selected for runtime.

In the permission section, I choose the LambdaS3ReplicaRole. It was already created on step 1.

Step 3

Create Function Code

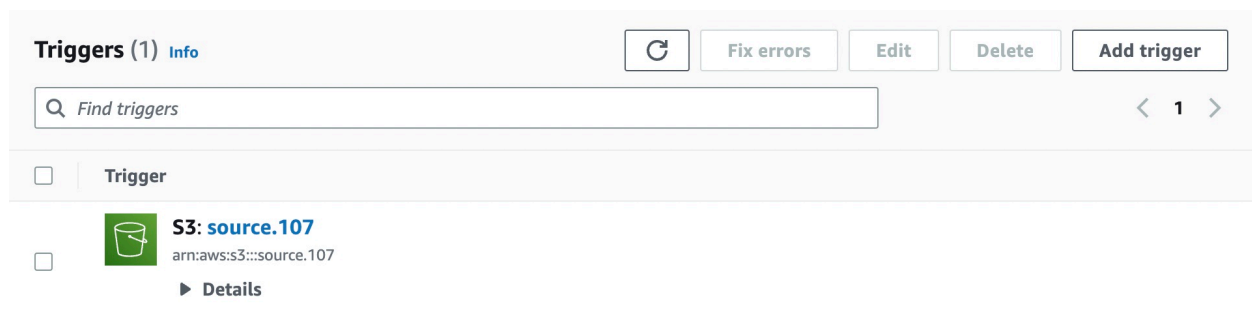
I jump into Function Code sub-menu and paste the code already given.

```
1 import json
2 import boto3
3 ## boto3 S3 initialization
4 s3_client = boto3.client('s3')
5 def lambda_handler(event, context):
6     destination_bucket_name = 'destination.107'
7     ## event contains all information about uploaded object
8     print('Event :', event)
9     ## Bucket Name where file was uploaded
10    source_bucket_name = event['Records'][0]['s3']['bucket']['name']
11    ## Filename of object (with path)
12    file_key_name = event['Records'][0]['s3']['object']['key']
13    ## Copy Source Object
14    copy_source_object = {'Bucket': source_bucket_name, 'Key': file_key_name}
15    ## S3 copy object operation
16    s3_client.copy_object(CopySource=copy_source_object, Bucket=destination_bucket_name, Key=file_key_name)
17    return {
18        'statusCode': 200,
19        'body': json.dumps('Hello from S3 events Lambda!')
20    }
```

Step 4

Setting Trigger Event

In the configuration menu I click to AddTrigger button. For Trigger Configuration S3, bucket name source.107.



I clicked DEPLOY!

Step 5

I upload logo.png file into source.107 bucket and it copied to destination.107 bucket.

source.107 Info

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 Inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

< 1 > @

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	logo.png	png	June 25, 2023, 16:39:30 (UTC-04:00)	3.7 KB	Standard

destination.107 Info

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<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	logo.png	png	June 25, 2023, 16:39:32 (UTC-04:00)	3.7 KB	Standard