

*Lambda Serverless Lab

S3 Bucket

The screenshot shows the Amazon S3 console interface. On the left is a navigation menu with options like Buckets, Access Grants, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, Storage Lens, Dashboards, Storage Lens groups, AWS Organizations settings, Feature spotlight, and AWS Marketplace for S3. The main content area is titled 'Account snapshot' and shows metrics: Total storage (1.0 MB), Object count (1), and Average object size (1.0 MB). Below this, there's a section for 'General purpose buckets' with a table listing three buckets: bootcamp-bucket-2, bootcamp-bucket-3, and bootcamp-bucket-new. Each bucket is in the US East (N. Virginia) us-east-1 region. The first two have 'Objects can be public' access, while the third is 'Public'. The table also shows creation dates.

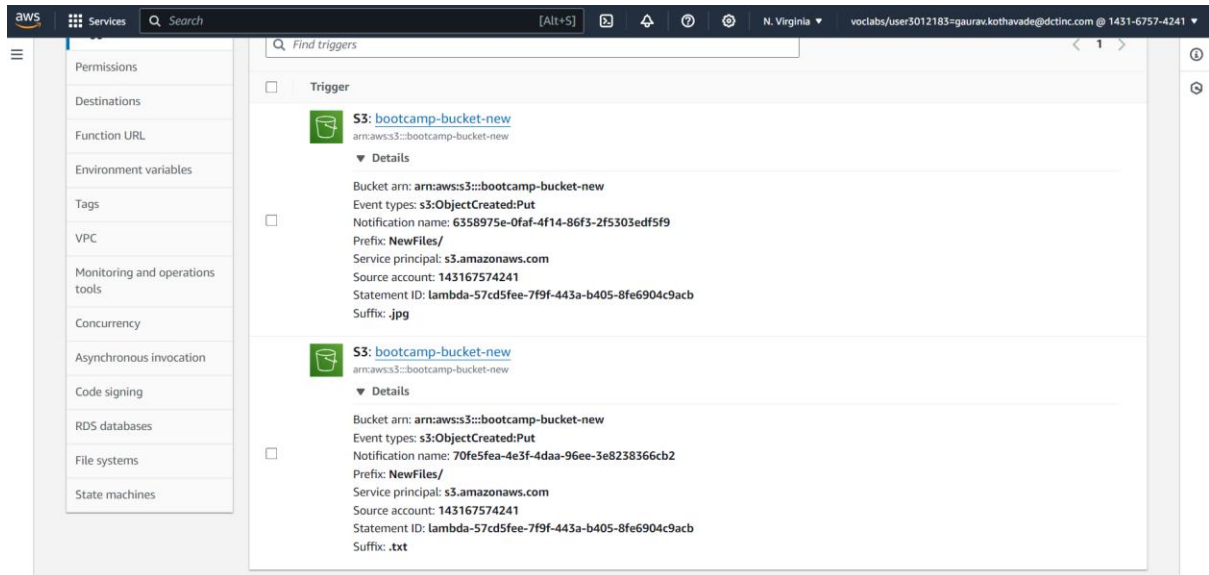
Name	AWS Region	Access	Creation date
bootcamp-bucket-2	US East (N. Virginia) us-east-1	Objects can be public	February 20, 2024, 12:22:00 (UTC+05:30)
bootcamp-bucket-3	US East (N. Virginia) us-east-1	Objects can be public	February 20, 2024, 12:22:42 (UTC+05:30)
bootcamp-bucket-new	US East (N. Virginia) us-east-1	Public	January 24, 2024, 16:31:44 (UTC+05:30)

Created Lambda function

The screenshot shows the AWS Lambda console for a function named 'bootcamp-1'. The 'Function overview' tab is active, displaying a diagram of the function's configuration. The diagram shows the function 'bootcamp-1' with a trigger from 'S3' (indicated by a green icon and the number 2) and a destination (indicated by a blue icon and the number 0). There are buttons for 'Add trigger' and 'Add destination'. On the right, the 'Function overview' details are listed: Description (empty), Last modified (2 hours ago), Function ARN (arn:aws:lambda:us-east-1:143167574241:function:bootcamp-1), and Function URL (empty).

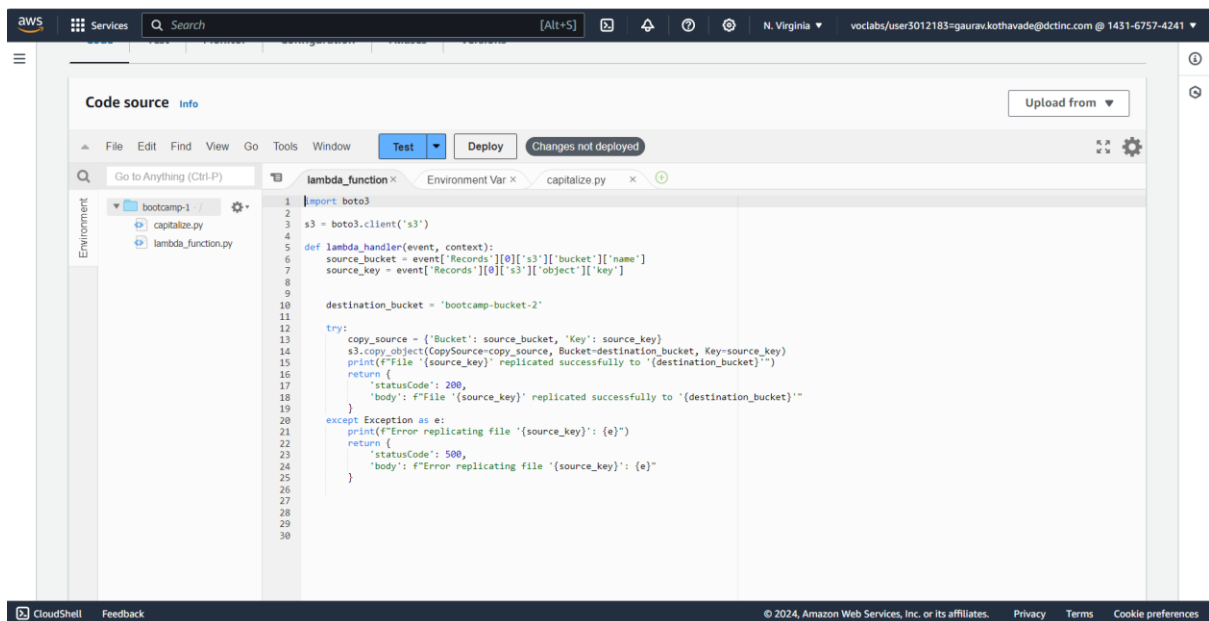
Added two triggers

1. For .jpg files
2. For .txt files

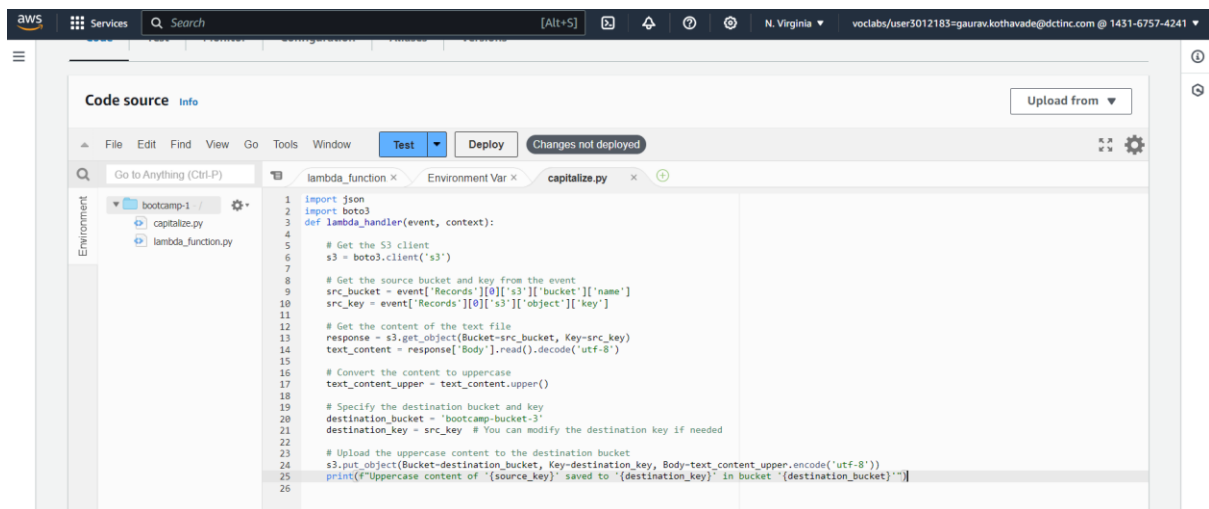


Code:

1. For replication of .txt file from one S3 to another

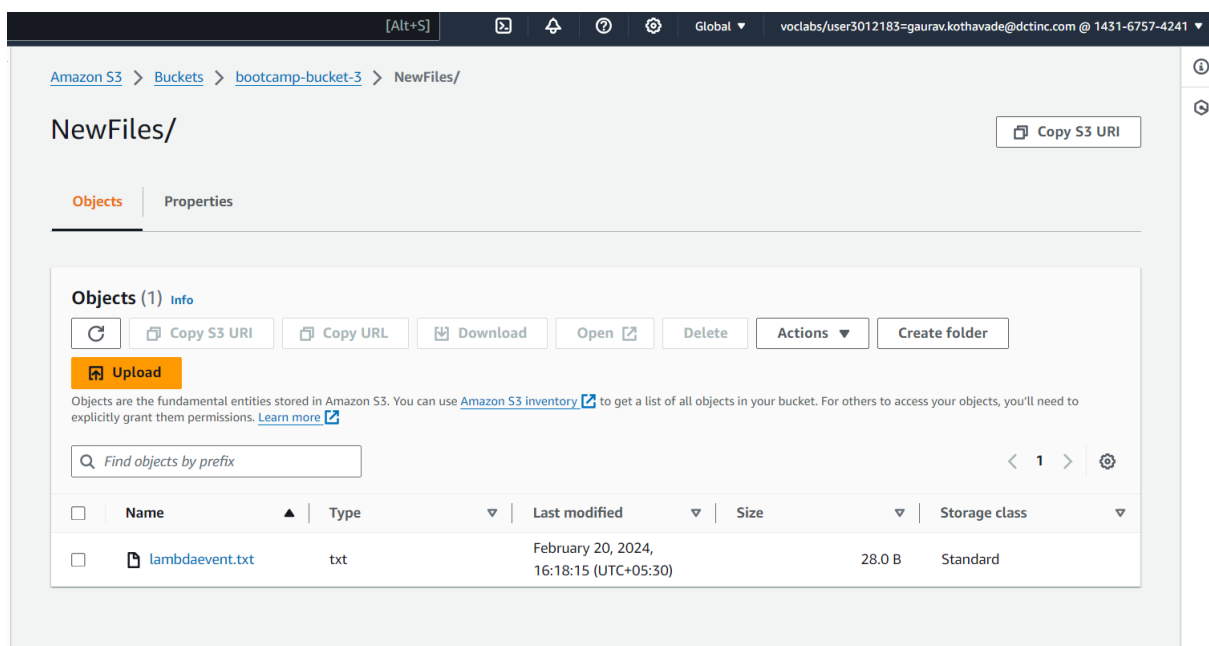


2. For capitalization of text and saved the new file in another S3 bucket



The screenshot shows the AWS Lambda console's 'Code source' tab for a function named 'capitalize.py'. The code is a Python lambda function that reads text from an S3 bucket, converts it to uppercase, and uploads it to another S3 bucket. The code is as follows:

```
1 import json
2 import boto3
3 def lambda_handler(event, context):
4     # Get the S3 client
5     s3 = boto3.client('s3')
6
7     # Get the source bucket and key from the event
8     src_bucket = event['Records'][0]['s3']['bucket']['name']
9     src_key = event['Records'][0]['s3']['object']['key']
10
11     # Get the content of the text file
12     response = s3.get_object(Bucket=src_bucket, Key=src_key)
13     text_content = response['Body'].read().decode('utf-8')
14
15     # Convert the content to uppercase
16     text_content_upper = text_content.upper()
17
18     # Specify the destination bucket and key
19     destination_bucket = 'bootcamp-bucket-3'
20     destination_key = src_key # You can modify the destination key if needed
21
22     # Upload the uppercase content to the destination bucket
23     s3.put_object(Bucket=destination_bucket, Key=destination_key, Body=text_content_upper.encode('utf-8'))
24     print(f"Uppercase content of '{src_key}' saved to '{destination_key}' in bucket '{destination_bucket}'")
25
```



S3 buckets | S3 | Global

e.aws.amazon.com/s3/buckets/bootcamp-b

Amazon S3 > Buckets > bootcamp-b

NewFiles/

ObjectsProperties


Objects (1) Info

Copy S3 URI

Upload

Objects are the fundamental entities stored in Amazon S3. You must explicitly grant them permissions. [Learn more](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	 lambdaevent.txt	txt	February 20, 2024, 16:18:15 (UTC+05:30)	28.0 B	Standard

lambdaevent - Notepad

File Edit Format View Help

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