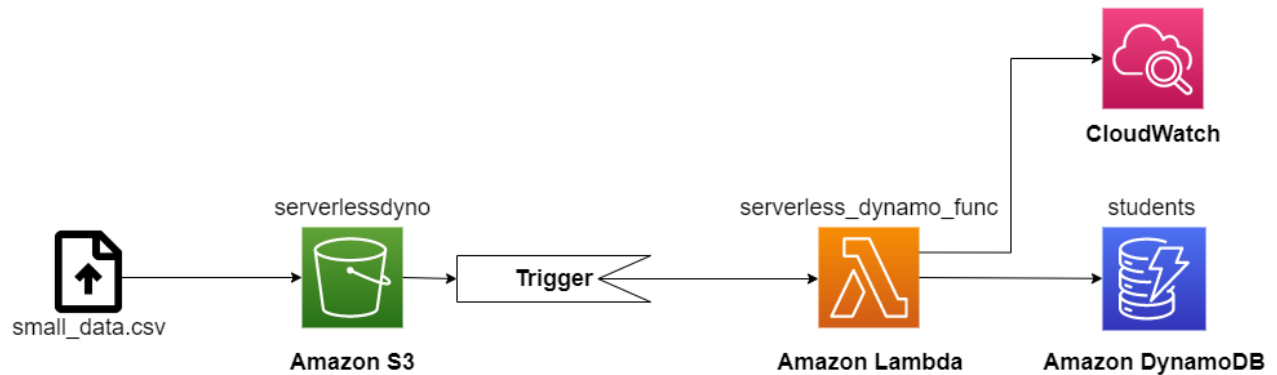


Serverless Architecture to transfer S3 data to DynamoDB via Lambda trigger



Listing Bucket-list

Amazon S3 > Buckets

Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

[View Storage Lens dashboard](#)

Buckets (2)

Buckets are containers for data stored in S3. [Learn more](#)

[Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

< 1 > [Settings](#)

	Name	AWS Region	Access	Creation date
<input type="radio"/>	sels307	Asia Pacific (Mumbai) ap-south-1	Objects can be public	November 25, 2022, 08:39:23 (UTC+05:30)
<input checked="" type="radio"/>	serverlessdyno	Asia Pacific (Mumbai) ap-south-1	Objects can be public	November 25, 2022, 17:08:53 (UTC+05:30)

Amazon S3 > Buckets > serverlessdyno

serverlessdyno

[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 [more](#)

[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#)

<input type="checkbox"/>	Name	Type	Last modified
<input type="checkbox"/>	small_data.csv	csv	November 25, 2022, 19:31:17 (UTC+05:30)

S3 File Data

SQL query

Amazon S3 Select supports only the `SELECT SQL` command. Using the S3 console, you can extract up to 40 MB of records from an object that is up to 128 MB in size. To work with

```
1 /* To create reference point for writing SQL queries, you can display the first 5 records of input data by running the following SQL query:
2 SELECT * FROM s3object
```

Query results

Query results are not available after you choose **Close** or navigate away. Choose **Download results** to download a copy of the following query results.

Status

✔ Successfully returned 9 records in 435 ms

Bytes returned: 77 B

Raw


Formatted


Lambda and Trigger Creation


Lambda > Functions > serverless_dynamo_func

serverless_dynamo_func

▼ Function overview [Info](#)

 serverless_dynamo_func

 Layers (0)

 S3

[+ Add trigger](#)

[Code](#) | [Test](#) | [Monitor](#) | [Configuration](#) | [Aliases](#) | [Versions](#)

Code source [Info](#)

File Edit Find View Go Tools Window [Test](#) [Deploy](#)

Go to Ar [lambda_function](#) × [Execution results](#) × [+](#)


Environment

```
1 import boto3
2 from uuid import uuid4
3
4 s3 = boto3.client('s3')
5 dynamodb = boto3.resource('dynamodb')
6 student_table = dynamodb.Table('students')
7
8 def lambda_handler(event, context):
9     bucket_name = event['Records'][0]['s3']['bucket']['name']
10    print(f'Printing bucket name: {bucket_name}')
11    file_name = event['Records'][0]['s3']['object']['key']
12
13    file_object = s3.get_object(Bucket=bucket_name, Key=file_name)
14
15    file_content = file_object['Body'].read().decode('utf-8')
16
17    students = file_content.split("\n")
18    #print(f'printing students: {students}')
19
20    for i in range(1, len(students)-1):
21        #print(student)
22
23        data = students[i].split(',')
24        print(f'printing id {data[0]}')
25        print(f'printing name {data[1]}')
26        student_table.put_item(
27            Item = {
28                "id": int(data[0]),
29                "name": str(data[1])
30            }
31        )
32
```

CloudWatch Logs

CloudWatch > Log groups > /aws/lambda/serverless_dynamo_func > 2022/11/25/[\$LATEST]0a754646915d40efa80a4b34dddc6b14

Log events

You can use the filter bar below to search for and match terms, phrases, or values in your log events. [Learn more about filter patterns](#) 

 Filter events

▶	Timestamp	Message
		No older events at this moment. Retry
▶	2022-11-25T19:31:17.482+05:30	START RequestId: 05564a0f-65b5-4a6d-9c41-ddf125fc1eca Version: \$LATEST
▶	2022-11-25T19:31:17.482+05:30	Printing bucket name: serverlessdynamo
▶	2022-11-25T19:31:17.718+05:30	printing id 1
▶	2022-11-25T19:31:17.718+05:30	printing name Selvi
▶	2022-11-25T19:31:17.872+05:30	printing id 2
▶	2022-11-25T19:31:17.872+05:30	printing name Jaya
▶	2022-11-25T19:31:17.903+05:30	printing id 3
▶	2022-11-25T19:31:17.903+05:30	printing name Priya
▶	2022-11-25T19:31:17.938+05:30	printing id 4
▶	2022-11-25T19:31:17.938+05:30	printing name Alan
▶	2022-11-25T19:31:17.978+05:30	printing id 5
▶	2022-11-25T19:31:17.978+05:30	printing name Kumar
▶	2022-11-25T19:31:17.998+05:30	printing id 6
▶	2022-11-25T19:31:17.998+05:30	printing name Swetha
▶	2022-11-25T19:31:18.038+05:30	printing id 7
▶	2022-11-25T19:31:18.038+05:30	printing name Ram
▶	2022-11-25T19:31:18.058+05:30	printing id 8
▶	2022-11-25T19:31:18.058+05:30	printing name Sita
▶	2022-11-25T19:31:18.118+05:30	END RequestId: 05564a0f-65b5-4a6d-9c41-ddf125fc1eca

DynamoDB Table Data

DynamoDB > Items > students

Tables (2) ×

Any table tag ▼

Find tables by table name

< 1 > ⚙

☐ s3_view

☒ students

students

▶ Scan/Query items

Expand to query or scan items.

✔ Completed Read capacity units consumed: 0.5

Items returned (8)

<input type="checkbox"/>	id ▲	name
<input type="checkbox"/>	1	Selvi
<input type="checkbox"/>	2	Jaya
<input type="checkbox"/>	3	Priya
<input type="checkbox"/>	4	Alan
<input type="checkbox"/>	5	Kumar
<input type="checkbox"/>	6	Swetha
<input type="checkbox"/>	7	Ram
<input type="checkbox"/>	8	Sita