

S3 Bucket:

aws

Search

[Option+S]

United States (N. Virginia)

saiharsha

Amazon S3 > Buckets > online-orders-pipeline-charlotte-edu

Amazon S3

General purpose buckets

Directory buckets

Table buckets

Access Grants

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

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Feature spotlight 11

AWS Marketplace for S3

online-orders-pipeline-charlotte-edu

Info

Objects

Metadata

Properties

Permissions

Metrics

Management

Access Points

Objects (3)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

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](#)

Find objects by prefix

< 1 >

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	athena-results/	Folder	-	-	-
<input type="checkbox"/>	processed/	Folder	-	-	-
<input type="checkbox"/>	raw/	Folder	-	-	-

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Amazon S3 > Buckets > online-orders-pipeline-charlotte-edu > processed/

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processed/

Copy S3 URI

Objects

Properties

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Find objects by prefix

< 1 >

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	filtered_orders.csv	csv	April 23, 2025, 14:34:16 (UTC-04:00)	5.3 KB	Standard

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Amazon S3 > Buckets > online-orders-pipeline-charlotte-edu > athena-results/ > Unsaved/ > 2025/ > 04/ > 23/

Amazon S3

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23/

Objects Properties

Objects (4)

Copy S3 URI Copy URL Download Open Delete Actions Create folder Upload

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](#)

Find objects by prefix

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	26fd5b0b-1ca0-4a16-9f6e-e46531974802.csv	csv	April 23, 2025, 14:38:46 (UTC-04:00)	37.0 B	Standard
<input type="checkbox"/>	26fd5b0b-1ca0-4a16-9f6e-e46531974802.csv.metadata	metadata	April 23, 2025, 14:38:46 (UTC-04:00)	83.0 B	Standard
<input type="checkbox"/>	30f8519f-ed1-4c5d-a423-42ed11d43e8a.csv	csv	April 23, 2025, 14:38:22 (UTC-04:00)	536.0 B	Standard
<input type="checkbox"/>	30f8519f-ed1-4c5d-a423-42ed11d43e8a.csv.metadata	metadata	April 23, 2025, 14:38:22 (UTC-04:00)	261.0 B	Standard

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Lambda Execution:

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Lambda > Functions > filter_state_orders

Code Test Monitor Configuration Aliases Versions

Code source Info

Upload from

EXPLORER

filter_state_orders

lambda_function.py

```
1 import boto3
2 import csv
3 import io
4 from datetime import datetime, timedelta
5
6 s3 = boto3.client('s3')
7
8 def lambda_handler(event, context):
9     print("Lambda triggered by S3 event.")
10
11     # Get the S3 bucket and object key from the event
12     bucket_name = event['Records'][0]['s3']['bucket']['name']
13     raw_key = event['Records'][0]['s3']['object']['key']
14     file_name = raw_key.split('/')[-1]
15
16     print(f"Incoming file: {raw_key}")
17
18     try:
19         # Download raw CSV from S3
20         response = s3.get_object(Bucket=bucket_name, Key=raw_key)
21         raw_csv = response['Body'].read().decode('utf-8').splitlines()
22         print(f"Successfully read file from S3: {file_name}")
23     except Exception as e:
24         print(f"Error reading file from S3: {e}")
25         raise e
26
27 reader = csv.DictReader(raw_csv)
28 filtered_rows = []
29 original_count = 0
```

Deploy (🔗U)

Test (🔗U)

TEST EVENTS [NONE SELECTED]

+ Create new test event

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CloudWatch console feature arch

[Option+S]

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CloudWatch

Log groups

/aws/lambda/filter_stale_orders

2025/04/23/\$LATEST77a02fdb500b543f4a78b02944f2e523b

CloudWatch

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 - press enter to search

Clear 1m 30m 1h 12h Custom UTC timezone

Display

Timestamp	Message
2025-04-23T18:29:43.924Z	Error reading file from S3: An error occurred (AccessDenied) when calling the getObject operation: user: arn:aws:sts::10...
2025-04-23T18:29:43.924Z	[WARNING] 2025-04-23T18:29:43.924Z 86bf9aea-7976-45e7-8ae9-1b8c5cb9dfee LAMBDA_WARNING: Unhandled exception. The most l...
2025-04-23T18:29:43.924Z	[ERROR] ClientError: An error occurred (AccessDenied) when calling the getObject operation: User: arn:aws:sts::05283135...
2025-04-23T18:29:43.939Z	END RequestId: 86bf9aea-7976-45e7-8ae9-1b8c5cb9dfee
2025-04-23T18:29:43.939Z	REPORT RequestId: 86bf9aea-7976-45e7-8ae9-1b8c5cb9dfee Duration: 351.75 ms Billed Duration: 352 ms Memory Size: 128 MB ...
2025-04-23T18:34:15.001Z	START RequestId: 2220cb85-9e12-4103-b60a-86523c12be8a Version: \$LATEST
2025-04-23T18:34:15.017Z	Lambda triggered by S3 event.
2025-04-23T18:34:15.017Z	Incoming file: raw/orders.csv
2025-04-23T18:34:15.377Z	Successfully read file from S3: orders.csv
2025-04-23T18:34:15.377Z	Processing records...
2025-04-23T18:34:15.456Z	Total records processed: 200
2025-04-23T18:34:15.456Z	Records filtered out: 62
2025-04-23T18:34:15.456Z	Records kept: 138
2025-04-23T18:34:15.544Z	Filtered file successfully written to S3: processed/filtered_orders.csv
2025-04-23T18:34:15.557Z	END RequestId: 2220cb85-9e12-4103-b60a-86523c12be8a
2025-04-23T18:34:15.557Z	REPORT RequestId: 2220cb85-9e12-4103-b60a-86523c12be8a Duration: 556.04 ms Billed Duration: 557 ms Memory Size: 128 MB ...

No newer events at this moment. Auto retry paused. [Resume](#)

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Glue crawler:

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AWS Glue

Crawlers

orders_processed_crawler

AWS Glue

orders_processed_crawler

Last updated (UTC) April 23, 2025 at 18:46:31

Run crawler Edit Delete

Crawler properties

Name	orders_processed_crawler	IAM role	AWSGlueServiceRole-Handson	Database	orders_db	State	READY
Description	-	Security configuration	-	Lake Formation configuration	-	Table prefix	orders_
Maximum table threshold	-						

Advanced settings

Crawler runs (3)

The list of crawler runs for this crawler.

Filter data

Filter by a date and time range

	Start time (UTC)	End time (UTC)	Current/last duration	Status	DPU hours	Table changes
	April 23, 2025 at 18:35:35	April 23, 2025 at 18:36:55	01 min 19 s	Completed	0.037	1 table change, 0 partition changes
	April 23, 2025 at 18:11:34	April 23, 2025 at 18:12:44	01 min 10 s	Completed	0.037	-
	April 23, 2025 at 17:58:04	April 23, 2025 at 17:59:06	01 min 01 s	Completed	0.043	-

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AWS Glue > Tables > orders_processed

AWS Glue

<

Getting started

ETL jobs

Visual ETL

Notebooks

Job run monitoring

Data Catalog tables

Data connections

Workflows (orchestration)

Zero-ETL integrations New

▼ Data Catalog

Databases

Tables

Stream schema registries

Schemas

Connections

Crawlers

Classifiers

Catalog settings

► Data Integration and ETL

► Legacy pages

What's New

Documentation

AWS Marketplace

☐ Enable compact mode

☐ Enable new navigation

Table details

Name

orders_processed

Database

orders_db

Description

-

Last updated

April 23, 2025 at 18:36:55

Classification

CSV

Location

s3://online-orders-pipeline-charlotte-edu/processed/

Connection

-

Deprecated

-

Column statistics

No statistics

► Advanced properties

Schema

Partitions

Indexes

Column statistics - new

Schema (5)

View and manage the table schema.

Filter schemas

#	Column name	Data type	Partition key	Comment
1	orderid	string	-	-
2	customer	string	-	-
3	amount	double	-	-
4	status	string	-	-
5	orderdate	string	-	-

Edit schema as JSON

Edit schema

CloudShell

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Athena:

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Amazon Athena > Query editor

Introducing a new tutorial

Learn how to create a table from an S3 table bucket and run queries.

View tutorials

Editor

Recent queries

Saved queries

Settings

Workgroup primary

Data

Data source

AwsDataCatalog

Catalog

None

Database

orders_db

Tables and views

Create

Filter tables and views

Tables (1)

orders_processed

Views (0)

Query 1

Query 2

```
1 SELECT *
2 FROM orders_processed
3 ORDER BY orderdate DESC
4 LIMIT 10;
5
```

SQL

Ln 5, Col 1

Run again

Explain

Cancel

Clear

Create

Reuse query results

up to 60 minutes ago

Query results

Query stats

Completed

Time in queue: 73 ms

Run time: 401 ms

Data scanned: 5.35 KB

Results (10)

Copy

Download results CSV

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Query results

Query stats

✔ Completed

Time in queue: 73 ms

Run time: 401 ms

Data scanned: 5.35 KB

Results (10)

Copy

Download results CSV

🔍 Search rows

< 1 > ⚙️

#	▼	orderid	▼	customer	▼	amount	▼	status	▼	orderdate	▼
1		O0003		Diana		230.68		confirmed		2025-04-21	
2		O0063		Diana		305.64		cancelled		2025-04-21	
3		O0129		Alice		206.43		shipped		2025-04-21	
4		O0014		Charlie		383.52		confirmed		2025-04-21	
5		O0030		Alice		157.44		shipped		2025-04-19	
6		O0103		Alice		226.29		cancelled		2025-04-19	
7		O0197		Diana		186.6		pending		2025-04-19	
8		O0168		Eve		312.9		confirmed		2025-04-18	
9		O0134		Eve		65.21		pending		2025-04-16	
10		O0051		Diana		255.48		pending		2025-04-16	

Github link: