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Adv devops Experiment No :12

## General configuration

AWS Region

Asia Pacific (Mumbai) ap-south-1

Bucket name [Info](#)

devopsBucket

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

**Choose bucket**

Format: s3://bucket/prefix

## Object Ownership [Info](#)

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☒ **ACLs disabled (recommended)**

All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☐ **ACLs enabled**

Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

## Default encryption [Info](#)

Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption type [Info](#)

☒ **Server-side encryption with Amazon S3 managed keys (SSE-S3)**

☐ **Server-side encryption with AWS Key Management Service keys (SSE-KMS)**

☐ **Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)**

Secure your objects with two separate layers of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the [Storage](#) tab of the [Amazon S3 pricing page](#).

### Bucket Key

Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. [Learn more](#)

☐ **Disable**

☒ **Enable**

## ► Advanced settings

[i](#) After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel

Create bucket

☒ Author from scratch

Start with a simple Hello World example.

☐ Use a blueprint

Build a Lambda application from sample code and configuration presets for common use cases.

☐ Container image

Select a container image to deploy for your function.

## Basic information

### Function name

Enter a name that describes the purpose of your function.

S3ImageLogger

Use only letters, numbers, hyphens, or underscores with no spaces.

### Runtime [Info](#)

Choose the language to use to write your function. Note that the console code editor supports only Node.js, Python, and Ruby.

Python 3.12



### Architecture [Info](#)

Choose the instruction set architecture you want for your function code.

☒ x86\_64

☐ arm64

### Permissions [Info](#)

By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

► [Change default execution role](#)

lambda\_function x

Environment Vari x



```
import json
```

```
def lambda_handler(event, context):
    # Extract bucket name and object key from the event
    bucket_name = event['Records'][0]['s3']['bucket']['name']
    object_key = event['Records'][0]['s3']['object']['key']

    # Log a message
    print(f"An Image has been added to the bucket {bucket_name}: {object_key}")

    return {
        'statusCode': 200,
        'body': json.dumps('Log entry created successfully')
    }
```



S3

aws

asynchronous

storage



## Bucket

Choose or enter the ARN of an S3 bucket that serves as the event source. The bucket must be in the same region as the function.



s3/devopssbucket



Bucket region: ap-south-1

## Event types

Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.



All object create events X

## Prefix - optional

Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters. Any [special characters](#) must be URL encoded.

e.g. images/

## Suffix - optional

Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters. Any [special characters](#) must be URL encoded.

e.g. .jpg

## Recursive invocation

If your function writes objects to an S3 bucket, ensure that you are using different S3 buckets for input and output. Writing to the same bucket increases the risk of creating a recursive invocation, which can result in increased Lambda usage and increased costs. [Learn more](#)

☒ I acknowledge that using the same S3 bucket for both input and output is not

Triggers

Permissions

Destinations

Function URL

Environment variables

Tags

VPC

RDS databases

Monitoring and operations tools

Concurrency and recursion detection

Asynchronous invocation

Code signing

File systems

State machines

Role name

S3ImageLogger-role-p216jxih

## Resource summary

To view the resources and actions that your function has permission to access, choose a service.



Amazon CloudWatch Logs

3 actions, 2 resources



By action

By resource

Resource	Actions
arn:aws:logs:ap-south-1:992382535340:*	Allow: logs:CreateLogGroup
arn:aws:logs:ap-south-1:992382535340:log-group:/aws/lambda/S3ImageLogger:*	Allow: logs:CreateLogStream Allow: logs:PutLogEvents

Lambda obtained this information from the following policy statements:

- Managed policy AWSLambdaBasicExecutionRole-8a8d30af-0c2f-4618-aac9-9919c615df07, statement 0
- Managed policy AWSLambdaBasicExecutionRole-8a8d30af-0c2f-4618-aac9-9919c615df07, statement 1

# Upload Info

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files** or **Add folder**.

## Files and folders (1 Total, 1.8 KB)

[Remove](#)[Add files](#)[Add folder](#)

All files and folders in this table will be uploaded.

< 1 >

<input checked="" type="checkbox"/>	Name	Folder
<input checked="" type="checkbox"/>	bg-upper.jpg	-

## Destination Info

Destination

[s3://devopssbucket](#)

### ► Destination details

Bucket settings that impact new objects stored in the specified destination.

Upload succeeded  
View details below.

## Upload: status

[Close](#)

The information below will no longer be available after you navigate away from this page.

### Summary

Destination  
[s3://devopssbucket](#)

Succeeded  
1 file, 1.8 KB (100.00%)

Failed  
0 files, 0 B (0%)

[Files and folders](#) [Configuration](#)

## Files and folders (1 Total, 1.8 KB)

< 1 >

Name	Folder	Type	Size	Status	Error
<a href="#">bg-upper.jpg</a>	-	image/jpeg	1.8 KB	Succeeded	-

## CloudWatch

Favorites and recents

Dashboards

► Alarms

▼ Logs

Log groups

Log Anomalies

Live Tail

Logs Insights

Contributor Insights

► Metrics

► X-Ray traces

► Events

► Application Signals [New](#)

► Network monitoring

► Insights

[CloudWatch](#) > [Log groups](#) > [/aws/lambda/mypythonFunction](#) > 2024/08/29/[LATEST]e5aba80bf7644ec2bf57477b2ebc3734

### Log events

[Refresh](#)[Actions](#)[Start tailing](#)[Create metric filter](#)

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](#)

[Clear](#)[1m](#)[30m](#)[1h](#)[12h](#)[Custom](#)[UTC timezone](#)[Display](#)[Filter](#)

Timestamp	Message
No older events at this moment. <a href="#">Retry</a>	
2024-08-29T09:14:54.054Z	INIT_START Runtime version: python3.12.v30 Runtime version ARN: arn:aws:lambda:eu-north-1::runtime:ac65000e3fa085f0b7933...
2024-08-29T09:14:54.136Z	START RequestId: 36e50767-fac0-4ed3-83ff-87872352f940 Version: LATEST
2024-08-29T09:14:54.136Z	An Image has been added to the bucket saach112: butterfly.jpg
2024-08-29T09:14:54.138Z	END RequestId: 36e50767-fac0-4ed3-83ff-87872352f940
2024-08-29T09:14:54.138Z	REPORT RequestId: 36e50767-fac0-4ed3-83ff-87872352f940 Duration: 1.88 ms Billed Duration: 2 ms Memory Size: 128 MB Max Memor...
No newer events at this moment. <a href="#">Auto retry paused</a> . <a href="#">Resume</a>	

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