

Step 1 :- Create S3 Bucket

The screenshot shows two sequential steps in the AWS S3 'Create bucket' wizard.

General configuration (Step 1):

- AWS Region:** Asia Pacific (Mumbai) ap-south-1
- Bucket type:** General purpose (selected)
- Bucket name:** s3-bucket-cleanup
- Copy settings from existing bucket - optional:** Only the bucket settings in the following configuration are copied. A 'Choose bucket' button is available.
- Object Ownership:** Standard

Block Public Access settings for this bucket (Step 2):

- Block all public access:** This setting is turned off.
- Block public access to buckets and objects granted through new access control lists (ACLs):** This setting is turned off.
- Block public access to buckets and objects granted through any access control lists (ACLs):** This setting is turned off.
- Block public access to buckets and objects granted through new public bucket or access point policies:** This setting is turned off.
- Block public and cross-account access to buckets and objects through any public bucket or access point policies:** This setting is turned off.

Warning: Turning off block all public access might result in this bucket and the objects within becoming public. AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

Acknowledgment: I acknowledge that the current settings might result in this bucket and the objects within becoming public.

Amazon S3 > Buckets

Successfully created bucket "s3-bucket-cleanup-adish"
To upload files and folders, or to configure additional bucket settings, choose View details.

General purpose buckets (4) [Info](#)

[Create bucket](#)

Buckets are containers for data stored in S3.

Name	AWS Region	Creation date
cdk-hnb659fds-assets-133562846627-ap-south-1	Asia Pacific (Mumbai) ap-south-1	June 17, 2025, 09:18:36 (UTC+05:30)
myngnixserverbucket	Asia Pacific (Mumbai) ap-south-1	August 31, 2025, 18:41:33 (UTC+05:30)
s3-bucket-cleanup-adish	Asia Pacific (Mumbai) ap-south-1	October 8, 2025, 20:12:41 (UTC+05:30)

View details [X](#)

Updated daily [View dashboard](#)

Storage Lens provides visibility into storage usage and activity trends.

External access summary - new [Info](#)

Updated daily

External access findings help you identify bucket permissions that allow public access or access from other AWS accounts.

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Amazon S3 > Buckets > s3-bucket-cleanup-adish

s3-bucket-cleanup-adish [Info](#)

Objects Properties Permissions Metrics Management Access Points

Objects (0) [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
No objects				
You don't have any objects in this bucket.				
Upload				

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Amazon S3 > Buckets > s3-bucket-cleanup-adish > Upload

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDKs 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, 1.1 MB)

All files and folders in this table will be uploaded.

Name	Type	Size
Automate Start-Stop EC2 Instances Usin...	application/vnd.openxmlformats-offic...	1.1 MB

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

Destination [Info](#)

Destination [s3://s3-bucket-cleanup-adish](#)

Destination details

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The screenshot shows the AWS S3 console interface. At the top, the navigation bar includes 'Amazon S3 > Buckets > s3-bucket-cleanup-adish'. Below the navigation is the bucket name 's3-bucket-cleanup-adish' with a 'Info' link. A horizontal menu bar contains 'Objects', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Points'. Under the 'Objects' tab, there is a table listing one object: 'Automate Start-Stop EC2 Instances Using Lambda - Step-by-Step Guide.docx'. The table columns include Name, Type, Last modified, Size, and Storage class. The object was last modified on October 8, 2025, at 20:14:11 (UTC+05:30) and is 1.1 MB in size, categorized as Standard storage. Below the table is a search bar labeled 'Find objects by prefix' and a toolbar with actions like Copy S3 URI, Copy URL, Download, Open, Delete, Actions, Create folder, and Upload.

Step 2 : - Create Lambda Function

The screenshot shows the 'Create function' wizard in the AWS Lambda console. The top navigation bar shows 'Lambda > Functions > Create function'. The main section is titled 'Create function' with an 'Info' link. It prompts the user to choose an option to create their function: 'Author from scratch' (selected), 'Use a blueprint', or 'Container image'. The 'Basic information' step is currently active. It includes fields for 'Function name' (set to 'S3CleanUp'), 'Runtime' (set to 'Python 3.14'), and 'Architecture' (set to 'AWS Lambda'). The bottom of the screen shows standard AWS footer links: CloudShell, Feedback, © 2025, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, and Cookie preferences.

The screenshot shows the 'Create function' wizard in the AWS Lambda console, specifically the 'Permissions' step. The top navigation bar shows 'Lambda > Functions > Create function'. The main section is titled 'Permissions' with an 'Info' link. It states that Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. The 'Change default execution role' section is expanded, showing options for 'Execution role' (choose a role or create a new one with basic Lambda permissions) and 'Existing role' (choose an existing role). The 'Existing role' dropdown is set to 'service-role/Lambda_function-role-9i5yg9oh'. The bottom of the screen shows standard AWS footer links: CloudShell, Feedback, © 2025, Amazon Web Services, Inc. or its affiliates., Privacy, Terms, and Cookie preferences.

1. IAM Role Policy

```
{  
    "Version": "2012-10-17",  
    "Statement": [  
        {  
            "Effect": "Allow",  
            "Action": [  
                "s3>ListBucket",  
                "s3GetObject",  
                "s3DeleteObject",  
                "s3ListBucketVersions",  
                "s3DeleteObjectVersion"  
            ],  
            "Resource": [  
                "arn:aws:s3:::your-bucket-name",  
                "arn:aws:s3:::your-bucket-name/*"  
            ]  
        },  
        {  
            "Effect": "Allow",  
            "Action": [  
                "logs>CreateLogGroup",  
                "logs>CreateLogStream",  
                "logsPutLogEvents"  
            ],  
            "Resource": "arn:aws:logs:*.*."  
        }  
    ]  
}
```

Lambda > Functions > S3CleanUp

Code Test Monitor Configuration Aliases Versions

General configuration

Description -

Memory 128 MB

Timeout 1 min 0 sec

SnapStart Info None

Ephemeral storage 512 MB

Edit

Triggers

Permissions

Destinations

Function URL

Environment variables

Tags

VPC

RDS databases

Monitoring and CloudWatch Metrics

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Lambda > Functions > S3CleanUp

Code source

lambda_function.py

```
import boto3
from datetime import datetime, timezone, timedelta

def lambda_handler(event, context):
    s3 = boto3.resource('s3')
    bucket = s3.Bucket('mynginxserverbucket')

    days_to_keep = 30 # Define the age threshold in days
    cutoff_date = datetime.now(timezone.utc) - timedelta(days=days_to_keep)

    # For versioned buckets, delete old versions; else just delete old objects
    for obj in bucket.objects.all():
        if obj.last_modified < cutoff_date:
            obj.delete()
```

Open in Visual Studio Code

Upload from

EXPLORER

S3CLEANUP

lambda_function.py

DEPLOY

Deploy (Ctrl+Shift+U)

Test (Ctrl+Shift+I)

TEST EVENTS [SELECTED: S3CLEAN]

Create new test event

Private saved events

S3Clean

PROBLEMS OUTPUT CODE REFERENCE LOG TERMINAL

Tasks

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Lambda > Functions > S3CleanUp

lambda_function.py

```
def lambda_handler(event, context):
    s3 = boto3.resource('s3')
    bucket = s3.Bucket('s3-bucket-cleanup-adish')

    days_to_keep = 30 # Define the age threshold in days
    cutoff_date = datetime.now(timezone.utc) - timedelta(days=days_to_keep)

    # For versioned buckets, delete old versions; else just delete old objects
    for obj_version in bucket.object_versions.all():
        if obj_version.last_modified < cutoff_date:
            obj_version.delete()
```

PROBLEMS OUTPUT CODE REFERENCE LOG TERMINAL

Status: Succeeded

Test_Event_Name: S3Clean

Response:

```
{"statusCode": 200,
 "body": "Old files deleted."}
```

Execution Results

Ln 8 Col 22 Spaces: 4 UTF-8 LF Python Lambda Layout: US

Code properties

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For now testing i use 0 days

Amazon S3 > Buckets > s3-bucket-cleanup-adish

s3-bucket-cleanup-adish [Info](#)

Objects Properties Permissions Metrics Management Access Points

Objects (0) [C](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [Upload](#)

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Find objects by prefix

< 1 > | [⚙️](#)

<input type="checkbox"/> Name	Type	Last modified	Size	Storage class
No objects				
You don't have any objects in this bucket.				

[Upload](#)

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