

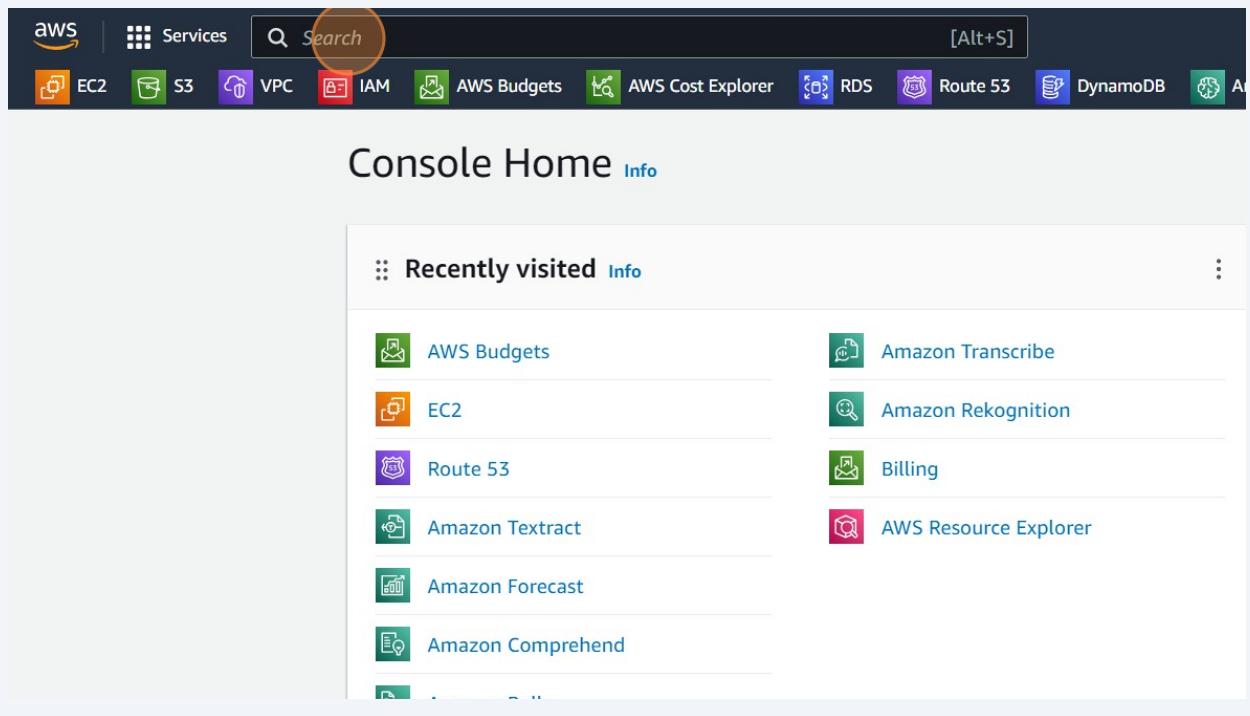
S3

This guide provides step-by-step instructions on how to create an S3 bucket on AWS. It covers everything from navigating to the AWS website to uploading files and accessing them. It also highlights important settings like global uniqueness and security features like encryption and access control. By following this guide, users can easily create and manage their own S3 buckets for storing and accessing their files.

This guide was created by Nijat Hajiyev

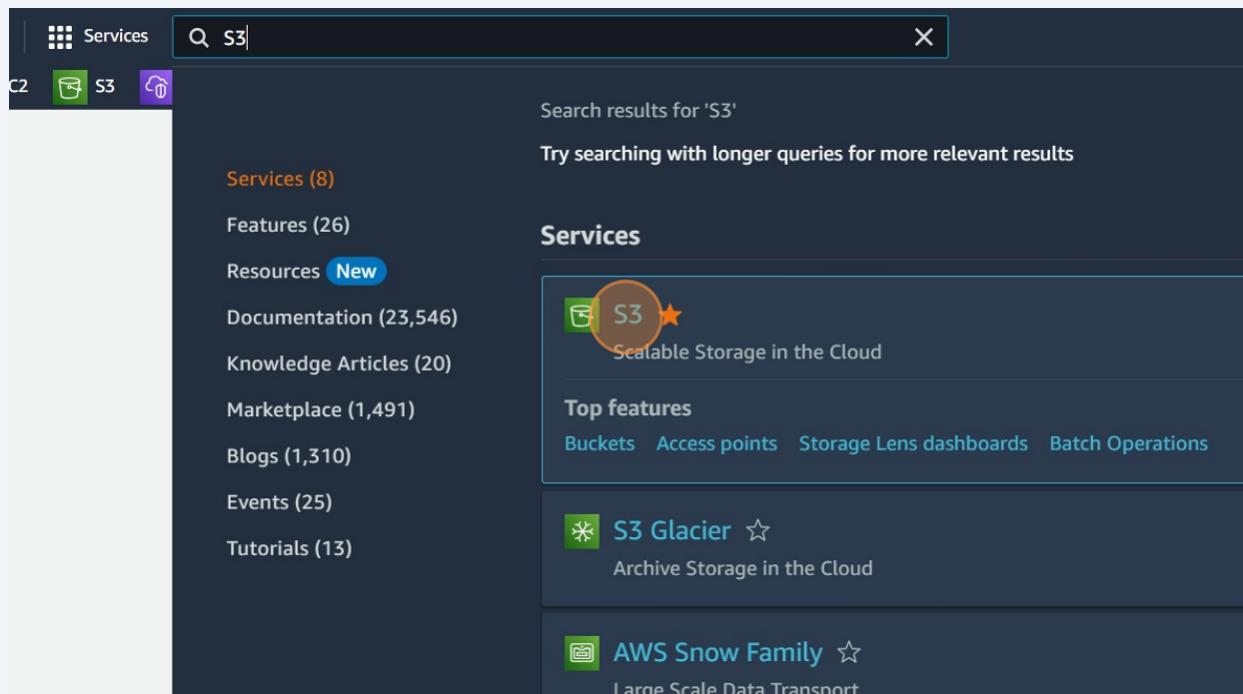
- 1 Navigate to aws.amazon.com

- 2 Click the "Search" field.

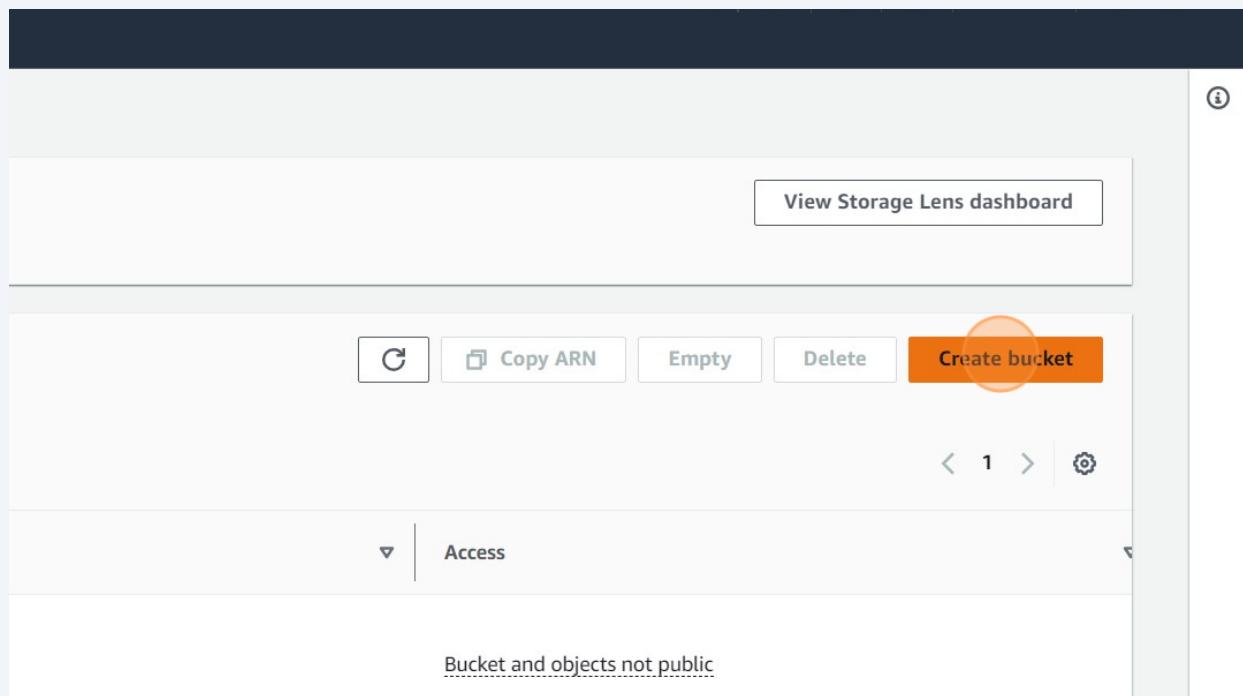


- 3 Type "S3"

4 Click "S3"



5 Click "Create bucket"



- 6 Click the "Bucket name" field.

Amazon S3 > Buckets > Create bucket

Create bucket Info

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

General configuration

Bucket name

myawsbucket

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

AWS Region

Europe (Frankfurt) eu-central-1 ▾

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

- 7 Type "mydemobucket-test1234"

Should be unique globally

8 Click "AWS Region"

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

General configuration

Bucket name

mydemobucket-test1234

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

AWS Region

Europe (Frankfurt) eu-central-1 ▾

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

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

9 Click here.

guration

test1234

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

eu-central-1 ▾

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

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

10 Click "Europe (Frankfurt) eu-central-1"

The screenshot shows the AWS S3 service configuration page. A new bucket named "Global" is being created. In the "Region" dropdown, "Europe (Frankfurt) eu-central-1" is selected and highlighted with an orange circle. Other options visible include "Asia Pacific (Seoul) ap-northeast-2", "Asia Pacific (Singapore) ap-southeast-1", "Asia Pacific (Sydney) ap-southeast-2", "Asia Pacific (Tokyo) ap-northeast-1", "Canada (Central) ca-central-1", "Europe (Ireland) eu-west-1", "Europe (London) eu-west-2", "Europe (Milan) eu-south-1", "Europe (Paris) eu-west-3", and "Europe (Spain) eu-south-2". A tooltip for "eu-central-1" states: "use of access control lists (ACLs). Object ownership is enabled. An object in this bucket can be owned by other AWS users. Access to this bucket and its objects can be controlled using ACLs." Another tooltip for "eu-central-1" states: "Bucket policies, access point policies, or all. In order to enable public access, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can...".

11 Click "Global"

S3 service is showing Global, but buckets are created in Region level

The screenshot shows the AWS S3 service interface. The "Global" bucket is listed. The "Region" dropdown at the top is set to "Global" and is highlighted with an orange circle. Other options in the dropdown include "ap-northeast-1", "ap-northeast-2", "ap-southeast-1", "ap-southeast-2", "ap-southwest-1", "ca-central-1", "eu-central-1", "eu-west-1", "eu-west-2", "eu-west-3", "eu-south-1", "eu-south-2", and "sa-east-1".

12 Click "ACLs disabled (recommended)"

The screenshot shows the 'Object Ownership' section of the AWS S3 Bucket Properties page. It includes a note about copying settings from an existing bucket, a 'Choose bucket' button, and two radio button options: 'ACLs disabled (recommended)' (selected) and 'ACLs enabled'. Below the radio buttons, it says 'All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.' and 'Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.' At the bottom, it shows 'Object Ownership' and 'Bucket owner enforced'.

Copy settings from existing bucket - *optional*
Only the bucket settings in the following configuration are copied.
Choose bucket

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.

Object Ownership
Bucket owner enforced

Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

13 Click "Block Public Access settings for this bucket"

The screenshot shows the 'Block Public Access settings for this bucket' section of the AWS S3 Bucket Properties page. It includes a note about public access being granted through various methods, a 'Learn more' link, and a list of settings. The first setting, 'Block all public access', is checked. A note below it states that turning this setting on is equivalent to turning on all four settings below. The second setting, 'Block public access to buckets and objects granted through new access control lists (ACLs)', is also checked. A note below it states that this setting prevents new public access ACLs for existing buckets and objects.

aws | Services Search [Alt+S]

EC2 S3 VPC IAM AWS Budgets AWS Cost Explorer RDS Route 53 DynamoDB A

only policies. specified using ACLs.

Object Ownership
Bucket owner enforced

Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

Block public access to buckets and objects granted through new access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

14 Click "Disable"

objects.

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

Bucket Versioning

Disable

Enable

Tags - optional (0)

You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

No tags associated with this bucket.

15 Click "Server-side encryption with Amazon S3 managed keys (SSE-S3)"

NO TAGS ASSOCIATED WITH THIS BUCKET

Add tag

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

16 Click "Create bucket"

management Service keys (SSE-KMS)
AWS Key Management Service keys (DSSE-KMS)
of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the Storage tab of the

option costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-

ad files and folders to the bucket, and configure additional bucket settings.

Cancel **Create bucket**

17 Click "Successfully created bucket "mydemobucket-test1234""

The screenshot shows the AWS S3 console. At the top, there's a navigation bar with the AWS logo, a services menu, a search bar, and a [Alt+S] keyboard shortcut. Below the navigation bar, a green success message box is displayed, containing the text: "Successfully created bucket "mydemobucket-test1234"". It also says "To upload files and folders, or to configure additional bucket settings, choose View details." Below this message, the main S3 interface is visible, showing an "Account snapshot" section with a storage lens link, and a "Buckets (5)" section with a search bar and a table header for "Name" and "AWS Region".

18 Click this radio button.

Buckets (5) Info	
Buckets are containers for data stored in S3. Learn more 	
<input type="text"/> Find buckets by name	
Name	AWS Region
<input type="radio"/> cf-templates-ifb7oz4v95cf-us-east-1	US East (N. Virginia) us-east-1
<input type="radio"/> elasticbeanstalk-us-east-1-337238043030	US East (N. Virginia) us-east-1
<input checked="" type="radio"/> mydemobucket-test1234	Europe (Frankfurt) eu-central-1
<input type="radio"/> sagemaker-studio-291xtdyoxgd	US East (N. Virginia) us-east-1
<input type="radio"/> textract-console-eu-central-1-ab0c1123-5774-4d11-a50d-061abce7f	Europe (Frankfurt) eu-central-1

19 Click "mydemobucket-test1234"

Buckets (5) Info	
Buckets are containers for data stored in S3. Learn more 	
<input type="text"/> Find buckets by name	
Name	AWS Region
<input type="radio"/> cf-templates-ifb7oz4v95cf-us-east-1	US East (N. Virginia) us-east-1
<input type="radio"/> elasticbeanstalk-us-east-1-337238043030	US East (N. Virginia) us-east-1
<input checked="" type="radio"/> mydemobucket-test1234	Europe (Frankfurt) eu-central-1
<input type="radio"/> sagemaker-studio-291xtdyoxgd	US East (N. Virginia) us-east-1
<input type="radio"/> textract-console-eu-central-1-ab0c1123-5774-4d11-a50d-061abce7f	Europe (Frankfurt) eu-central-1

Upload files

20 Click "mydemobucket-test1234"

Buckets (5) Info	
Buckets are containers for data stored in S3. Learn more	
<input type="text"/> Find buckets by name	
Name	AWS Region
<input type="radio"/> cf-templates-ifb7oz4v95cf-us-east-1	US East (N. Virginia) us-east-1
<input type="radio"/> elasticbeanstalk-us-east-1-337238043030	US East (N. Virginia) us-east-1
<input type="radio"/> mydemobucket-test1234	Europe (Frankfurt) eu-central-1
<input type="radio"/> sagemaker-studio-291xtdyoxgd	US East (N. Virginia) us-east-1
<input type="radio"/> textract-console-eu-central-1-ab0c1123-5774-4d11-a50d-061abce7f	Europe (Frankfurt) eu-central-1

21 Click "Upload"

Points

: of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

[Delete](#)

[Actions ▾](#)

[Create folder](#)

[Upload](#)

▼ | Last modified

▼ | Size

No objects

You don't have any objects in this bucket.

[Upload](#)

22 Click "Add files"

You want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon

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

0)

Remove

Add files

Add folder

able will be uploaded.

< 1 >

▼

Folder

▼

Type

▼

Size

▼

No files or folders

You have not chosen any files or folders to upload.



Select files

23 Click "Files and folders"

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 (3 Total, 194.4 KB)

[Remove](#)

[Add files](#)

[Add folder](#)

All files and folders in this table will be uploaded.

[Find by name](#)

< 1 >

<input type="checkbox"/>	Name	Folder	Type	Size
<input type="checkbox"/>	beach.jpg	-	image/jpeg	85.8 KB
<input type="checkbox"/>	coffee.jpg	-	image/jpeg	108.4 KB
<input type="checkbox"/>	index.html	-	text/html	200.0 B

24 Click "Upload"

image/jpeg	108.4 KB
text/html	200.0 B

the specified destination.

[Cancel](#)

[Upload](#)

25 Click "Upload succeeded"

The screenshot shows the AWS Management Console with the S3 service selected. A prominent green banner at the top displays the message "Upload succeeded" with a checkmark icon, and a link "View details below". Below this, the title "Upload: status" is centered. A note in a box states: "The information below will no longer be available after you navigate away from this page." The "Summary" section shows the destination as "s3://mydemobucket-test1234" and the status as "Succeeded" with "3 files, 194.4 KB (1)".

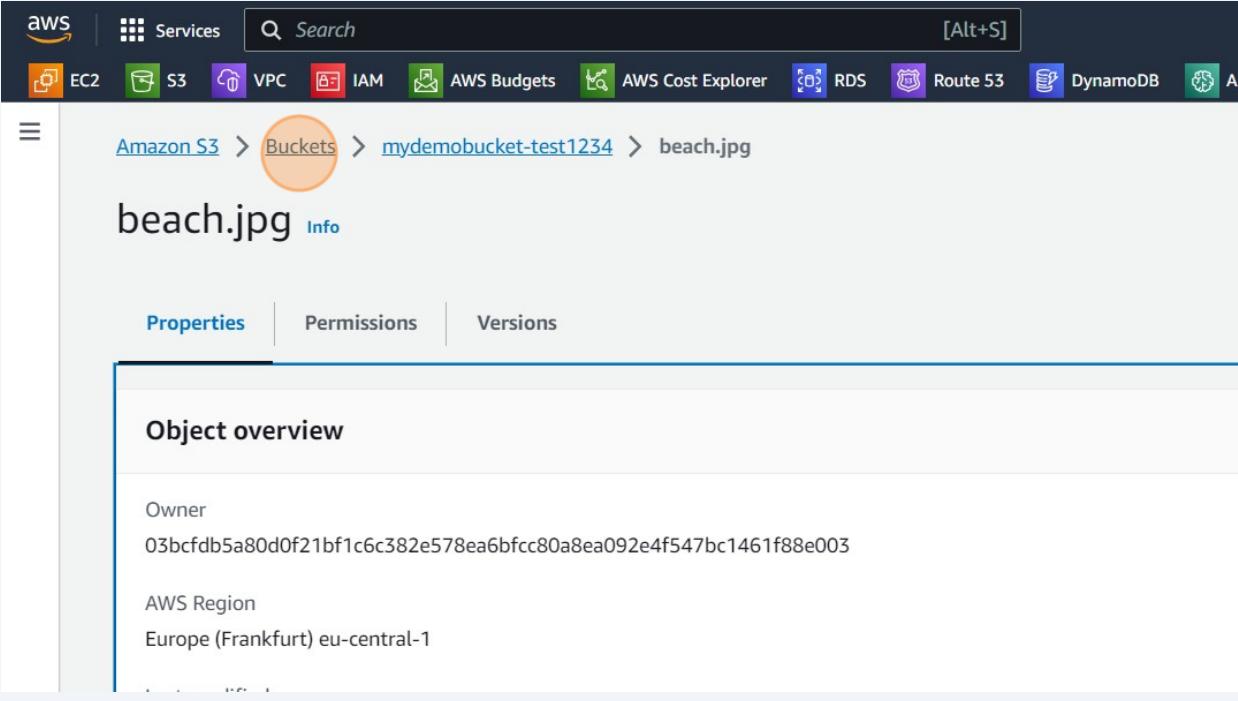
26 Check "Files and folders"

The screenshot shows the "Files and folders" tab selected under the S3 service. At the top, it displays the destination "s3://mydemobucket-test1234" and the status "Succeeded" with "3 files, 194.4 KB (1)". Below this, a heading "Files and folders (3 Total, 194.4 KB)" is shown, with a search bar "Find by name". A table lists the three files: "beach.jpg", "coffee.jpg", and "index.html", along with their folder status "-" and type: "image/jpeg" and "text/html".

Name	Folder	Type
beach.jpg	-	image/jpeg
coffee.jpg	-	image/jpeg
index.html	-	text/html

Open file (Open vs Object URL)

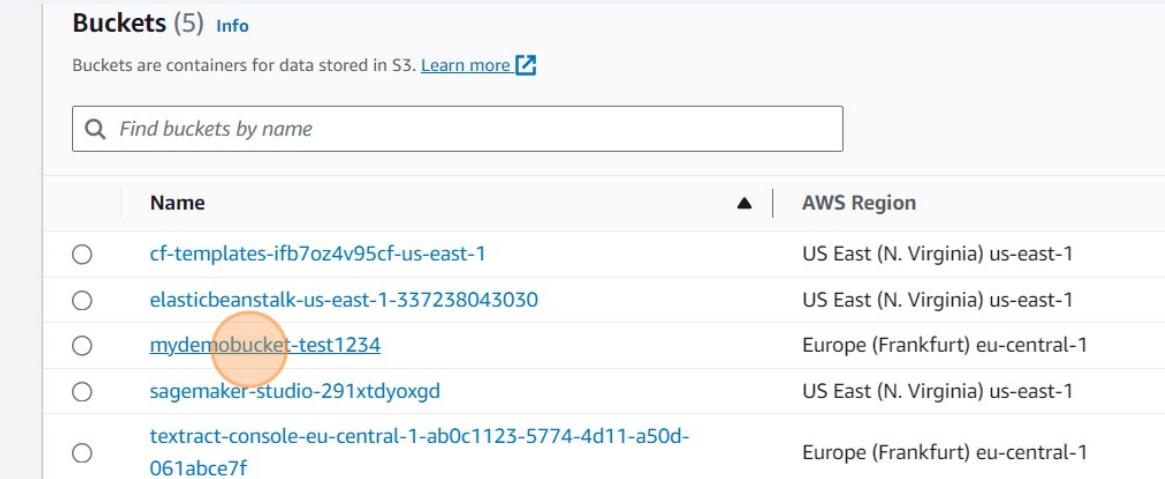
27 Click "Buckets"



The screenshot shows the AWS S3 Object Overview page. At the top, there's a navigation bar with links for EC2, S3, VPC, IAM, AWS Budgets, AWS Cost Explorer, RDS, Route 53, DynamoDB, and other services. Below the navigation bar, the breadcrumb navigation shows: Amazon S3 > Buckets > mydemobucket-test1234 > beach.jpg. The word "Buckets" is circled in orange. The main content area is titled "Object overview" and displays the following details:

Owner	03bcfdb5a80d0f21bf1c6c382e578ea6bfcc80a8ea092e4f547bc1461f88e003
AWS Region	Europe (Frankfurt) eu-central-1

28 Click "mydemobucket-test1234"



The screenshot shows the AWS S3 Buckets list page. The title is "Buckets (5) [Info](#)". A sub-header states: "Buckets are containers for data stored in S3. [Learn more](#)". There is a search bar with placeholder text "Find buckets by name". The main table lists five buckets:

Name	AWS Region
cf-templates-ifb7oz4v95cf-us-east-1	US East (N. Virginia) us-east-1
elasticbeanstalk-us-east-1-337238043030	US East (N. Virginia) us-east-1
mydemobucket-test1234	Europe (Frankfurt) eu-central-1
sagemaker-studio-291xtdyoxgd	US East (N. Virginia) us-east-1
textract-console-eu-central-1-ab0c1123-5774-4d11-a50d-061abce7f	Europe (Frankfurt) eu-central-1

29 Click "beach.jpg"

The screenshot shows the AWS S3 'Objects' page. At the top, there are buttons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', 'Delete', and 'Actions'. Below is a search bar with placeholder text 'Find objects by prefix'. A table lists three objects:

<input type="checkbox"/>	Name	Type
<input type="checkbox"/>	beach.jpg	jpg
<input type="checkbox"/>	coffee.jpg	jpg
<input type="checkbox"/>	index.html	html

The 'beach.jpg' row is highlighted with an orange circle around the file name.

30 Click "Open"

The screenshot shows the AWS S3 object preview for 'beach.jpg'. The top navigation bar includes icons for back, forward, refresh, help, global settings, and user 'Nijat Hajiye'. Below the navigation is a toolbar with 'Copy S3 URI', 'Download', 'Open' (which is highlighted with an orange circle), and 'Object actions'. The main content area displays the file path 'bucket-test1234/beach.jpg' and the ARN 'arn:aws:s3:::demobucket-test1234/beach.jpg'.



Opened

31

Click this image.



Will not open because of permission issue

32 Click "Object URL"

S3 URI
3 <s3://mydemobucket-test1234/beach.jpg>

Amazon Resource Name (ARN)
<arn:aws:s3:::mydemobucket-test1234/beach.jpg>

Entity tag (Etag)
<1c6defc638f71abd065d8dd2f450b207>

Object URL
<https://mydemobucket-test1234.s3.eu-central-1.amazonaws.com>

33 Click here.

[s3://mydemobucket-test1234/beach.jpg](#)

Amazon Resource Name (ARN)
<arn:aws:s3:::mydemobucket-test1234/beach.jpg>

Entity tag (Etag)
<1c6defc638f71abd065d8dd2f450b207>

Object URL
<https://mydemobucket-test1234.s3.eu-central-1.amazonaws.com>

rior of this object.

34

Open a new tab and paste Object URL



You get ERROR

```
<Error>
<link type="text/css" rel="stylesheet" id="dark-mode-custom-link"/>
<link type="text/css" rel="stylesheet" id="dark-mode-general-link"/>
<style lang="en" type="text/css" id="dark-mode-custom-style"/>
<style lang="en" type="text/css" id="dark-mode-native-style"/>
<style lang="en" type="text/css" id="dark-mode-native-sheet"/>
<Code>AccessDenied</Code>
<Message>Access Denied</Message>
<RequestId>.....</RequestId>
<HostId>.....</HostId>
</Error>
```