

S3 Versioning

This guide provides step-by-step instructions on how to enable versioning for an Amazon S3 bucket and how to upload and delete objects with versioning. By following this guide, users can ensure data integrity and easily manage different versions of their files in S3.

This guide was created by Nijat Hajiyev

- 1 Navigate to aws.amazon.com

- 2 Click "mydemobucket-test1234"

The screenshot shows the AWS S3 Buckets page. On the left, there's a sidebar with various links like Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, Block Public Access settings, Storage Lens (which is expanded), Dashboards, AWS Organizations settings, Feature spotlight (with 7 items), and AWS Marketplace for S3. The main area is titled 'Buckets (5) Info' and contains a table of five buckets:

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

3 Click "Properties"

The screenshot shows the AWS S3 console. In the top navigation bar, the 'Services' tab is selected. Below it, the 'Amazon S3' service is active. The main content area displays the properties of the bucket 'mydemobucket-test1234'. The 'Properties' tab is highlighted with an orange circle. The bucket is labeled as 'Publicly accessible'. Below the tabs, there's a section titled 'Objects (3)' with a search bar and several actions: 'Copy S3 URI', 'Copy URL', 'Download', and 'Open'. On the left sidebar, under the 'Buckets' heading, 'mydemobucket-test1234' is listed as 'Publicly accessible'.

4 Click "Bucket Versioning"

The screenshot shows the 'Bucket overview' page for the 'mydemobucket-test1234' bucket. The 'Bucket Versioning' section is highlighted with an orange circle. It contains the following information: 'Bucket Versioning' status (Disabled), 'Multi-factor authentication (MFA) delete' status (Disabled), and a note about an additional layer of security. On the left sidebar, under the 'Storage Lens' heading, 'Bucket Versioning' is listed as 'Disabled'.

5 Click "Edit"

I) Creation date November 3, 2023, 21:09:06 (UTC+01:00)

retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both

anently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. [Learn more](#)

6 Click here.

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
Dashboards
AWS Organizations settings

Feature spotlight 7

► AWS Marketplace for S3

Bucket Versioning

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

Bucket Versioning

Suspend
This suspends the creation of object versions for all operations but preserves any existing object versions.

Enable

Multi-factor authentication (MFA) delete
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. [Learn more](#)

Disabled

7 Click the "Enable" field.

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

- Dashboards
- AWS Organizations settings

Feature spotlight **7**

▶ AWS Marketplace for S3

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use every version of every object stored in your Amazon S3 bucket. With versioning, you can easily roll back to previous versions or delete objects without impacting current versions. [Learn more](#)

Bucket Versioning

Suspend
This suspends the creation of object versions for all operations but preserves any existing object versions.

Enable

Multi-factor authentication (MFA) delete
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. [Learn more](#)

Disabled

8 Click "Save changes"

, you might need to update your lifecycle rules to manage previous versions

? Multi-factor authentication for changing Bucket Versioning settings and permanently deleting objects, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. [Learn more](#)

Cancel **Save changes**

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9 Click "Objects"

The screenshot shows the AWS S3 console. On the left, there's a sidebar with 'Amazon S3' and a list of options: Buckets, Access Points, Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3, and Storage Lens (with Dashboards and AWS Organizations settings). The main area shows a green banner at the top stating 'Successfully edited Bucket Versioning' with a link to 'configure lifecycle rules'. Below the banner, the bucket name 'mydemobucket-test1234' is displayed as 'mydemobucket-test1234' with an 'Info' link. Underneath, it says 'Publicly accessible'. A navigation bar has tabs for 'Objects' (which is highlighted with an orange circle), 'Properties', 'Permissions', 'Metrics', and 'Management'. The 'Bucket overview' section shows the AWS Region as 'Europe (Frankfurt) eu-central-1'. At the bottom, there's a large empty space.

10 Click "Upload"

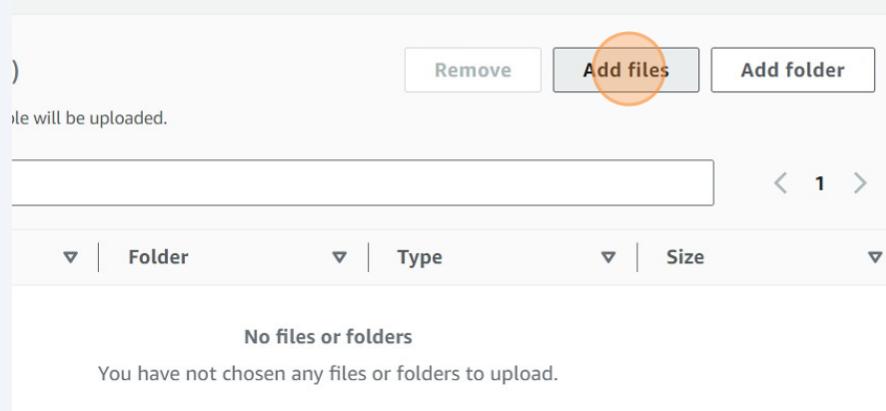
This screenshot shows the 'Access Points' section of the AWS S3 console. At the top, there are buttons for 'Delete', 'Actions', 'Create folder', and 'Upload' (which is highlighted with an orange circle). Below this is a table with columns for 'Last modified', 'Size', and 'Storage class'. Two objects are listed:

Last modified	Size	Storage class
November 3, 2023, 21:12:18 (UTC+01:00)	85.8 KB	Standard
November 3, 2023, 21:12:19 (UTC+01:00)	108.4 KB	Standard

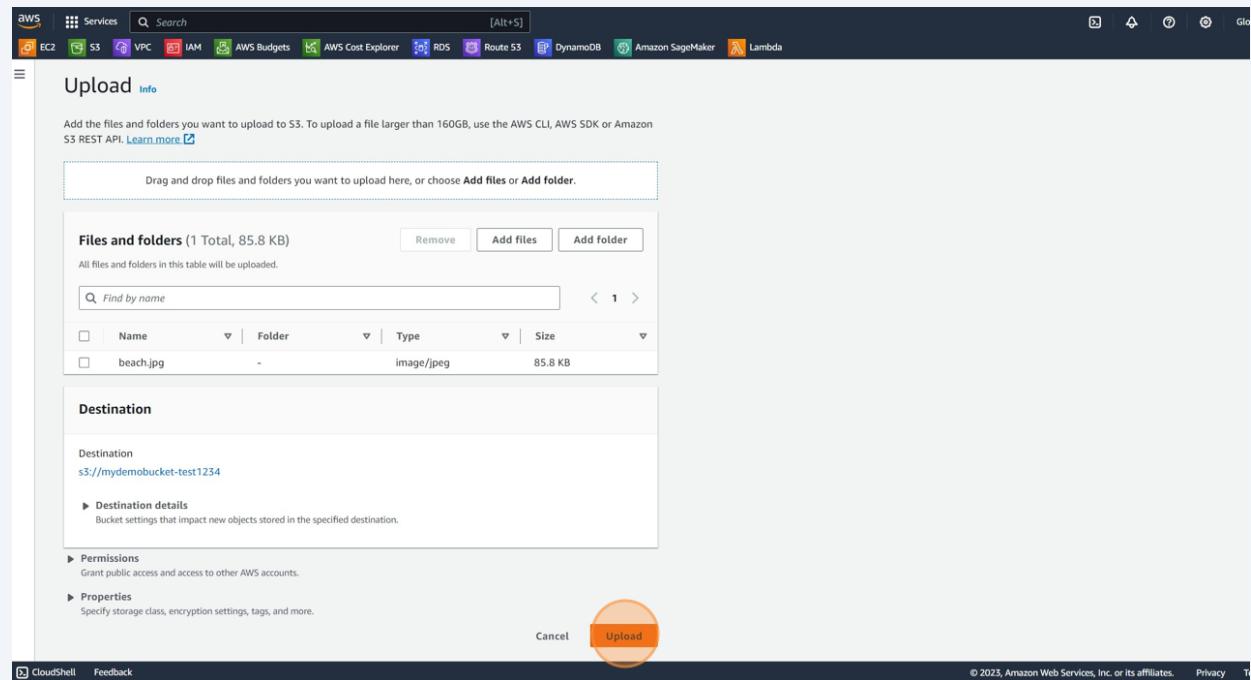
11 Click "Add files"

I 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**.



12 Click "Upload"



13 Click "s3://mydemobucket-test1234"

Upload: status

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

Summary

Destination

<s3://mydemobucket-test1234>

Succeeded

1 file, 85.8 KB (100.00%)

[Files and folders](#)

[Configuration](#)

Files and folders (1 Total, 85.8 KB)

14 Click this checkbox.

Properties Permissions Metrics Management Access Points

Indamental 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

[Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#) [Create folder](#) [More](#)

ts by prefix



Show versions

Type Last modified

ach.jpg	jpg	November 3, 2023, 21:45:53 (UTC+0)
fee.jpg	jpg	November 3, 2023, 21:12:19 (UTC+0)
lex.html	html	November 3, 2023, 21:12:19 (UTC+0)

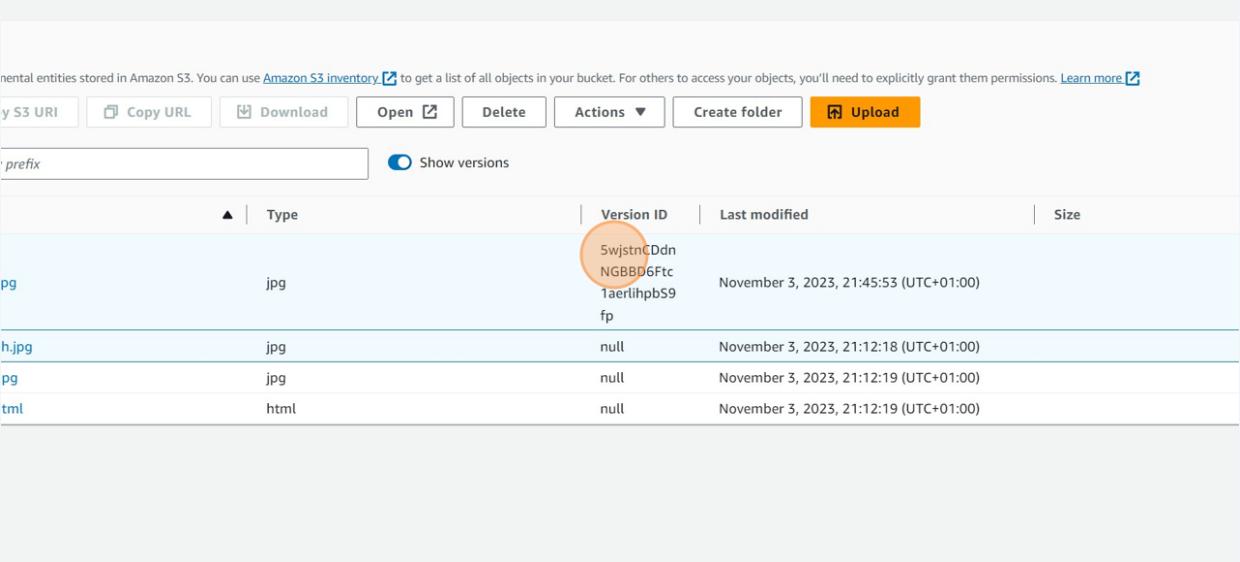
15 Click this checkbox.

Objects (4)					
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 ob					
		Actions		Create folder	
<input type="text"/> Find objects by prefix		<input checked="" type="checkbox"/> Show versions			
<input type="checkbox"/>		Name	Type	Version ID	Last mo
<input checked="" type="checkbox"/>		beach.jpg	jpg	5wjstnCDdn NGBBG6Ftc 1aerlihpS9 fp	Novemb
<input type="checkbox"/>		beach.jpg	jpg	null	Novemb
<input type="checkbox"/>		coffee.jpg	jpg	null	Novemb
<input type="checkbox"/>		index.html	html	null	Novemb

16 Click this checkbox.

Objects (4)					
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 ob					
		Actions		Create folder	
<input type="text"/> Find objects by prefix		<input checked="" type="checkbox"/> Show versions			
<input type="checkbox"/>		Name	Type	Version ID	Last mo
<input checked="" type="checkbox"/>		beach.jpg	jpg	5wjstnCDdn NGBBG6Ftc 1aerlihpS9 fp	Novemb
<input type="checkbox"/>		beach.jpg	jpg	null	Novemb
<input type="checkbox"/>		coffee.jpg	jpg	null	Novemb
<input type="checkbox"/>		index.html	html	null	Novemb

17 Click "5wjstnCDdnNGBBD6Ftc1aerlihpbs9fp"

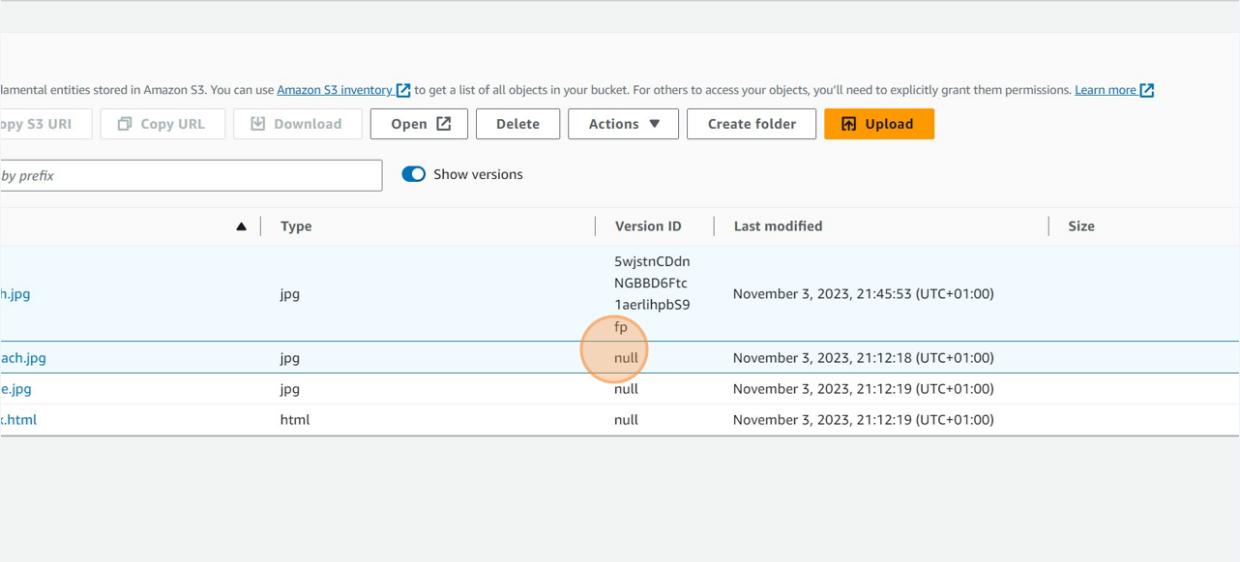


The screenshot shows the AWS S3 console interface. At the top, there are tabs for Properties, Permissions, Metrics, Management, and Access Points. Below the tabs is a toolbar with buttons for Copy S3 URI, Copy URL, Download, Open, Delete, Actions (with a dropdown arrow), Create folder, and Upload. A search bar labeled 'by prefix' contains the text '5wjstnCDdnNGBBD6Ftc1aerlihpbs9fp'. There is also a 'Show versions' button. The main area displays a table of objects:

	Type	Version ID	Last modified	Size
pg	jpg	5wjstnCDdn NGBBD6Ftc 1aerlihpbs9 fp	November 3, 2023, 21:45:53 (UTC+01:00)	
h.jpg	jpg	null	November 3, 2023, 21:12:18 (UTC+01:00)	
pg	jpg	null	November 3, 2023, 21:12:19 (UTC+01:00)	
tml	html	null	November 3, 2023, 21:12:19 (UTC+01:00)	

At the bottom right of the page, there is a copyright notice: © 2023, Amazon Web Services.

18 Click "null"



The screenshot shows the AWS S3 console interface. At the top, there are tabs for Properties, Permissions, Metrics, Management, and Access Points. Below the tabs is a toolbar with buttons for Copy S3 URI, Copy URL, Download, Open, Delete, Actions (with a dropdown arrow), Create folder, and Upload. A search bar labeled 'by prefix' contains the text 'null'. There is also a 'Show versions' button. The main area displays a table of objects:

	Type	Version ID	Last modified	Size
h.jpg	jpg	5wjstnCDdn NGBBD6Ftc 1aerlihpbs9 fp	November 3, 2023, 21:45:53 (UTC+01:00)	
ach.jpg	jpg	null	November 3, 2023, 21:12:18 (UTC+01:00)	
e.jpg	jpg	null	November 3, 2023, 21:12:19 (UTC+01:00)	
tml	html	null	November 3, 2023, 21:12:19 (UTC+01:00)	

At the bottom right of the page, there is a copyright notice: © 2023, Amazon Web Services.



Click "Delete"

19

Click "Version ID"

same name that are uploaded before the delete action is completed will also be deleted.

- Deleting the specified objects can't be undone.

[Learn more](#)

Specified objects

Find objects by name

< 1 >

Name	▲	Version ID	Type	Last modified	Size
beach.jpg		5wjstnCDdnNGBBD6Ftc1aerlihpbS9fp	jpg	November 3, 2023, 21:45:53 (UTC+01:00)	85.8 KB

Permanently delete objects?

To confirm deletion, type *permanently delete* in the text input field.

permanently delete

- 20 Click "5wjstnCDdnNGBBD6Ftc1aerlihpS9fp"

The screenshot shows the AWS S3 console interface. At the top, there is a 'Learn more' button. Below it, a section titled 'Specified objects' displays a table of objects. The table has columns for Name, Version ID, Type, Last modified, and Size. One object, 'beach.jpg', is selected and highlighted with an orange circle around its Version ID cell ('5wjstnCDdnNGBBD6Ftc1aerlihpS9fp'). Below the table, a section titled 'Permanently delete objects?' contains a text input field with the placeholder 'permanently delete'. At the bottom right, there are 'Cancel' and 'Delete objects' buttons.

Name	Version ID	Type	Last modified	Size
beach.jpg	5wjstnCDdnNGBBD6Ftc1aerlihpS9fp	jpg	November 3, 2023, 21:45:53 (UTC+01:00)	85.8 KB

- 21 Click the "permanently delete" field.

This screenshot is similar to the previous one but focuses on step 21. The 'permanently delete' text input field is highlighted with a blue selection bar and an orange circle, indicating it is the active field for input.

22 Type "permanently delete"

23 Click "Delete objects"

