

AWS Gyakorlat

Storage

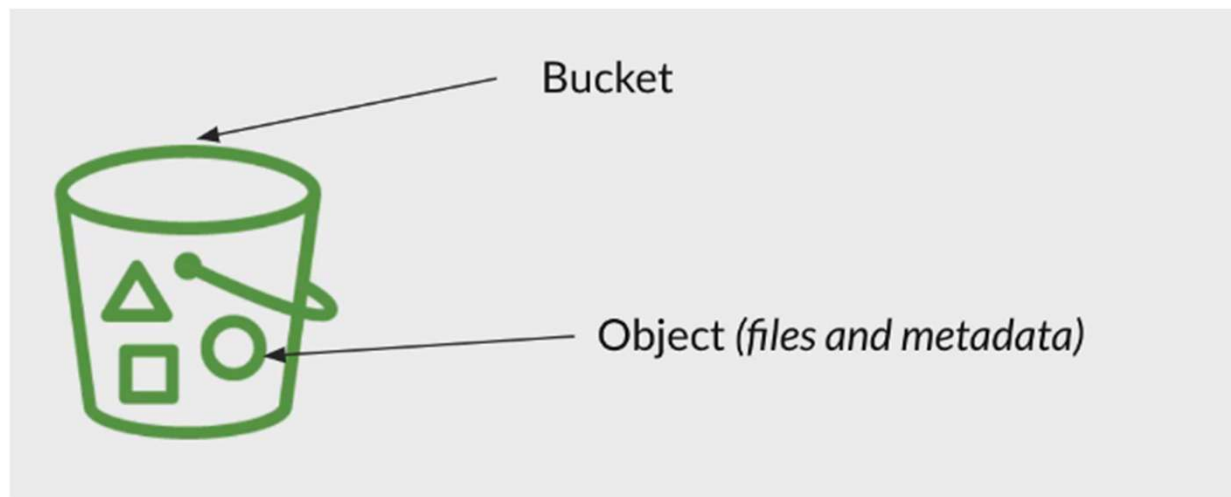
Felde Imre

Amazon S3

- **Amazon S3** – objektumtároló szolgáltatás, amely bármennyi adat tárolására és lekérésére használható bármikor.
- **Az S3 nem adatbázis** – ez egy **BLOB** (Binary Large Object Files) tároló.
 - Nagy mennyiségű adat mentésére szolgál.
- **Az S3 biztonságos**, mert magas tartósságot (durability) biztosít az adatok megőrzésében.

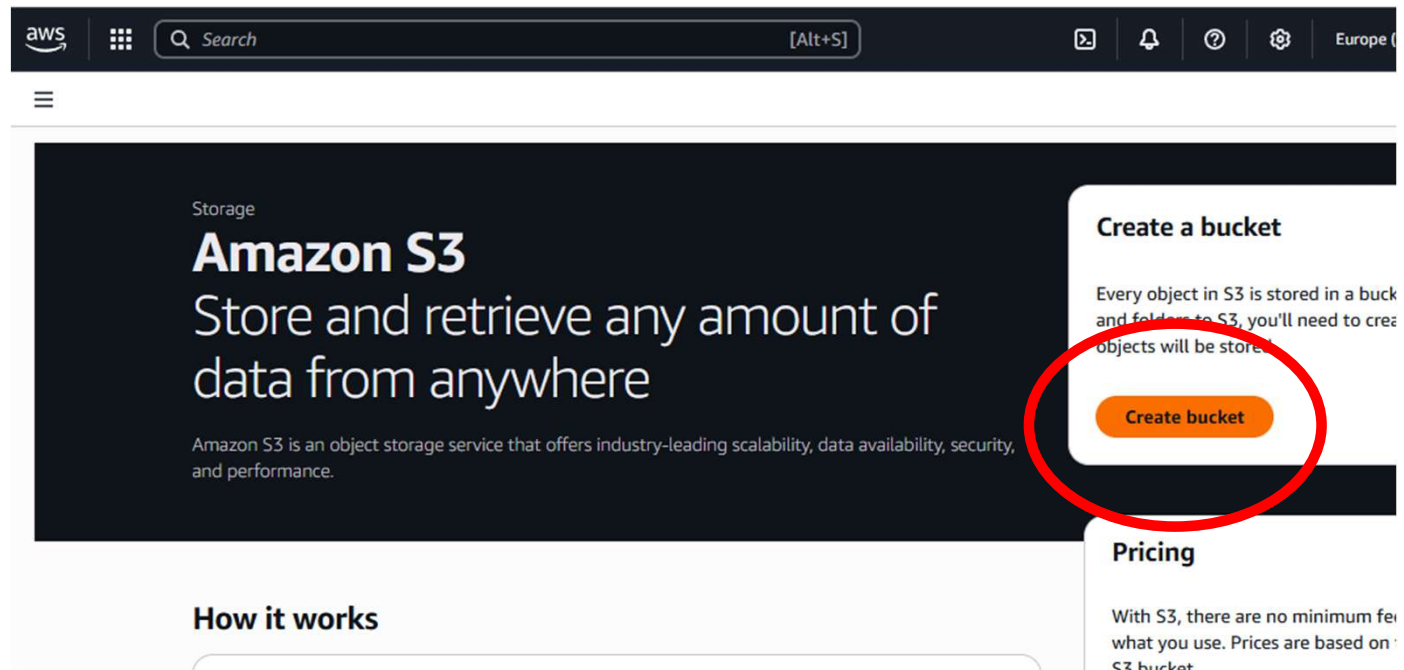
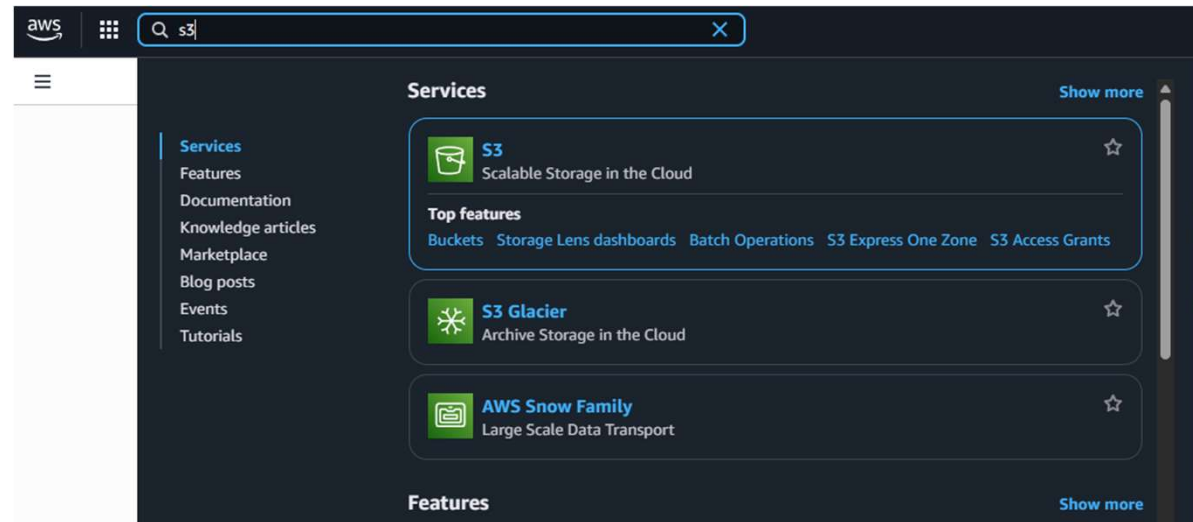
Amazon S3 - Alapfogalmak

- **Bucket** – olyan, mint egy mappa, ahová fájlokat lehet tenni.
- **Objects** – fájlok és minden metaadat, amely leírja ezeket a fájlokat.



Amazon S3 - Műveletek

- Bucket
 - létrehozása
 - Konfigurálása
 - Törlése
- Objektumok
 - Feltöltése
 - Megtekintése
 - Rendezése
 - Törlése



Bucket létrehozása

aws

Q

Eu

☰

[Amazon S3](#)

>

[Buckets](#)

>

Create bucket

Create bucket [Info](#)

Buckets are containers for data stored in S3.

General configuration

AWS Region
Europe (Stockholm) eu-north-1

Bucket type | [Info](#)

☒ **General purpose**
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

☐ **Directory**
Recommended for... only the S3... faster pro...

Bucket name | [Info](#)

sja-new-bucket

Bucket names must be 3 to 63 characters and unique within the global namespace. Bucket names must start with a lowercase letter, and can only contain lowercase letters, numbers, periods (.), and hyphens (-). [Learn More](#) [?](#)

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

Choose bucket

Format: s3://bucket/prefix

AWS

Europe (Stockholm) ▾

ACC

< Amazon S3 > Buckets > Create 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, and IAM permissions. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. Settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access before applying any of these settings, ensure that your applications will work correctly without public access. You require some level of public access to this bucket or objects within, you can customize the individual settings for 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.

✗ 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 ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access via ACLs.

Default encryption

Info

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](#).

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)

Bucket Key

Info

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

Object Lock

Store objects using a write-once-read-many (WORM) model to help you prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely. Object Lock works only in versioned buckets. [Learn more](#)

☒ Disable

☐ Enable

Permanently allows objects in this bucket to be locked. Additional Object Lock configuration is required in bucket details after bucket creation to protect objects in this bucket from being deleted or overwritten.

1

Object Lock works only in versioned buckets. Enabling Object Lock automatically enables Versioning.

1

After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel

Create bucket

Bucket létrehozása

aws

Amazon S3 > Buckets

Successfully created bucket "sja-new-bucket"
To upload files and folders, or to configure additional bucket settings, choose [View details](#).

General purpose buckets All AWS Regions Directory buckets

General purpose buckets (1) Info

[Refresh](#) [Copy ARN](#) [Empty](#) [Delete](#) [Create bucket](#)

Buckets are containers for data stored in S3.

Find buckets by name

Name	AWS Region	Creation date
sja-new-bucket	Europe (Stockholm) eu-north-1	October 14, 2025, 12:51:46 (UTC+02:00)

Account snapshot Info

Updated daily

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.

aws

Amazon S3 > Buckets > sja-new-bucket

sja-new-bucket Info

Objects Properties Permissions Metrics Management Access Points

Objects (0)

[Refresh](#) [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 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](#)

File feltöltése

The screenshot shows the Amazon S3 console interface. The breadcrumb navigation at the top indicates the path: **Amazon S3** > **Buckets** > **sja-new-bucket**. The main heading is **sja-new-bucket** with an **Info** link. Below this are tabs for **Objects**, **Properties**, **Permissions**, **Metrics**, and **Management**. The **Objects** tab is active, showing **Objects (0)**. A toolbar contains buttons for **Create folder**, **Copy S3 URL**, **Copy URL**, **Download**, **Open**, and **Upload**. The **Upload** button is circled in red. Below the toolbar, there is a text description of objects and a search bar labeled **Find objects by prefix**. At the bottom, a table header shows columns for **Name**, **Type**, **Last modified**, and **Size**. The table is currently empty, displaying **No objects** and the message **You don't have any objects in this bucket.** An **Upload** button is also present at the bottom of the table area.

The screenshot shows the **Upload** page in the Amazon S3 console. The breadcrumb navigation at the top indicates the path: **Amazon S3** > **Buckets** > **sja-new-bucket** > **Upload**. The main heading is **Upload** with an **Info** link. Below this is a text description of the upload process and a large dashed box for dragging and dropping files. A section titled **Files and folders** (1 total, 214.8 KB) shows a table of files to be uploaded. The table has columns for **Name**, **Folder**, **Type**, and **Size**. One file is listed: **tihany.jpg** with a type of **image/jpeg** and a size of **214.8 KB**. Below this is a section titled **Destination** with an **Info** link. It shows the **Destination** as **s3://sja-new-bucket** and includes **Destination details**, **Permissions**, and **Properties**. At the bottom right, there are **Cancel** and **Upload** buttons, with the **Upload** button circled in red.

Fájlok rendezése

Create folder [Info](#)

Use folders to group objects in buckets. When you create a folder, S3 creates an object using the name that you specify followed by a slash (/). This object then appears as folder on the console. [Learn more](#)

Folder

Folder name

photo-folder /

Folder names can't contain "/". [See rules for naming](#)

Server-side encryption [Info](#)

Server-side encryption protects data at rest.

The following encryption settings apply only to the folder object and not to sub-folder objects.

Server-side encryption

☒ Don't specify an encryption key
The bucket settings for default encryption are used to encrypt the folder object when storing it in Amazon S3.

☐ Specify an encryption key
The specified encryption key is used to encrypt the folder object before storing it in Amazon S3.

If your bucket policy requires objects to be encrypted with a specific encryption key, you must specify the same encryption key when you create a folder. Otherwise, folder creation will fail.

[Cancel](#) [Create folder](#)

sja-new-bucket [Info](#)

[Objects](#) [Properties](#) [Permissions](#) [Metrics](#) [Management](#) [Access Points](#)

Objects (1/2)

[Refresh](#) [Copy S3 URI](#) [Copy URL](#) [Download](#) [Open](#) [Delete](#) [Actions](#)

[Create folder](#) [Upload](#)

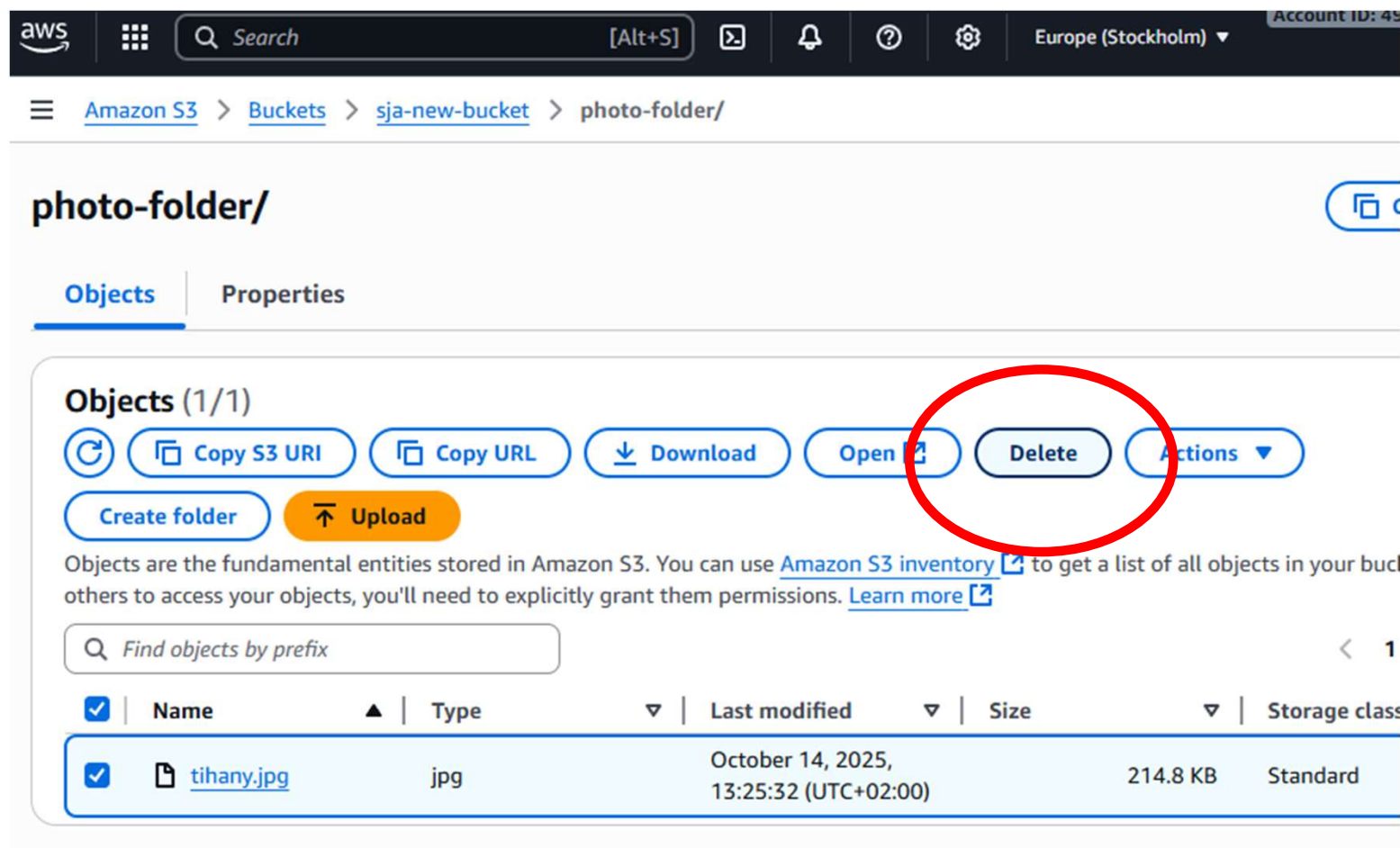
Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

	Name	Type	Last modified
<input type="checkbox"/>	photo-folder/	Folder	-
<input checked="" type="checkbox"/>	tihany.jpg	jpg	October 14, 2025, 13:04:47 (UTC+02:00)

- Download as
- Share with a presigned URL
- Calculate total size
- Copy
- Move
- Initiate restore
- Query with S3 Select
- Edit actions
 - Rename object
 - Edit storage class
 - Edit server-side encryption
 - Edit tags
 - Make public using ACL

Fájlok törlése

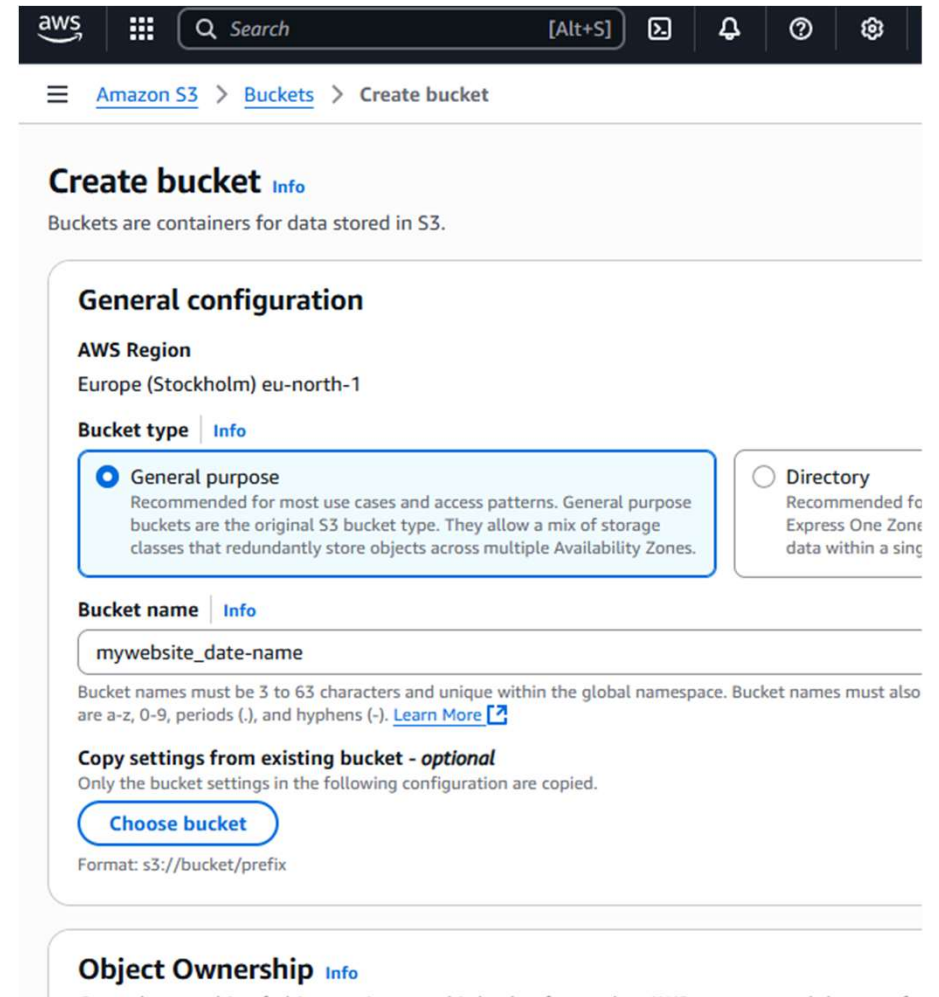


The screenshot shows the Amazon S3 console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and various icons. Below this, the breadcrumb trail indicates the current location: [Amazon S3](#) > [Buckets](#) > [sja-new-bucket](#) > [photo-folder/](#). The main heading is **photo-folder/**. Below the heading, there are two tabs: **Objects** (selected) and **Properties**. The **Objects (1/1)** section contains a row of action buttons: [Refresh](#), [Copy S3 URI](#), [Copy URL](#), [Download](#), [Open](#), **Delete** (circled in red), and [Actions](#). Below these buttons are [Create folder](#) and [Upload](#) buttons. A text block explains that objects are fundamental entities in Amazon S3 and provides links to [Amazon S3 inventory](#) and [Learn more](#). A search bar with the placeholder text 'Find objects by prefix' is also present. At the bottom, a table lists the objects in the folder.

<input checked="" type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input checked="" type="checkbox"/>	tihany.jpg	jpg	October 14, 2025, 13:25:32 (UTC+02:00)	214.8 KB	Standard

S3 – Statikus weboldal létrehozása

- Új folder létrehozása
- Tartalom bemásolása
 - Moodle folderben lévő fájlok



The screenshot shows the AWS Management Console interface for creating a new S3 bucket. The top navigation bar includes the AWS logo, a search bar, and various utility icons. The breadcrumb trail indicates the path: Amazon S3 > Buckets > Create bucket. The main heading is 'Create bucket' with an 'Info' link. Below this, a descriptive sentence states: 'Buckets are containers for data stored in S3.' The 'General configuration' section contains three main fields: 'AWS Region' set to 'Europe (Stockholm) eu-north-1', 'Bucket type' with two radio button options ('General purpose' selected and 'Directory' unselected), and 'Bucket name' with the text 'mywebsite_date-name'. The 'General purpose' option is highlighted with a blue border and includes a detailed description. The 'Bucket name' field has a text input and a descriptive note below it. A 'Choose bucket' button is located below the bucket name field. The 'Object Ownership' section is partially visible at the bottom.

aws [Search] [Alt+S]

Amazon S3 > Buckets > Create bucket

Create bucket [Info](#)

Buckets are containers for data stored in S3.

General configuration

AWS Region
Europe (Stockholm) eu-north-1

Bucket type [Info](#)

☒ **General purpose**
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.

☐ **Directory**
Recommended for Express One Zone data within a single Availability Zone.

Bucket name [Info](#)

mywebsite_date-name

Bucket names must be 3 to 63 characters and unique within the global namespace. Bucket names must also be a-z, 0-9, periods (.), and hyphens (-). [Learn More](#)

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](#)

Weboldal létrehozása - Engedélyek

The screenshot shows the Amazon S3 console interface. The breadcrumb navigation at the top reads 'Amazon S3 > Buckets > mywebsite-date-name'. The bucket name 'mywebsite-date-name' is circled in red. Below the bucket name, there are tabs for 'Objects', 'Properties', 'Permissions', 'Metrics', 'Management', and 'Access Point'. The 'Permissions' tab is selected and also circled in red. The 'Objects (0)' section shows buttons for 'Copy S3 URI', 'Copy URL', 'Download', 'Open', and 'Delete', along with 'Create folder' and 'Upload' buttons. A message states: 'Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of objects to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)'. Below this is a search bar 'Find objects by prefix' and a table header with columns: Name, Type, Last modified, and Size. The table is empty, with the message 'No objects. You don't have any objects in this bucket.' and an 'Upload' button.

The screenshot shows the 'Permissions overview' section of the Amazon S3 console. The breadcrumb navigation is 'Amazon S3 > Buckets > mywebsite-date-name'. The bucket name 'mywebsite-date-name' is circled in red. The 'Permissions' tab is selected. The 'Permissions overview' section includes an 'Access finding' link. Below this is the 'Block public access (bucket settings)' section, which states: '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 your S3 buckets and 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 a level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)'. The 'Block all public access' setting is shown as 'On' with a green checkmark. Below this is the 'Individual Block Public Access settings for this bucket' section. The 'Bucket policy' section is also visible, with an 'Edit' button circled in red. A blue information box at the bottom states: 'Public access is blocked because Block Public Access settings are turned on for this bucket. To determine which settings are turned on, check your Block Public Access settings for this bucket. [Learn more about using Amazon S3 Block Public Access](#)'.

Weboldal létrehozása - Engedélyek

aws Search [Alt+S] Europe (Stockholm) Account

Amazon S3 > Buckets > mywebsite-date-name > Edit bucket policy

Edit bucket policy [Info](#)

Bucket policy [Policy examples](#) [Policy](#)

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects o accounts. [Learn more](#)

Bucket ARN
[Copy](#) arn:aws:s3:::mywebsite-date-name

Policy

```
1 {
2   "Version": "2025-10-12",
3   "Statement": [
4     {
5       "Sid": "AllowPublicAccessToObject",
6       "Effect": "Allow",
7       "Principal": "*",
8       "Action": "s3:GetObject",
9       "Resource": "arn:aws:s3:::mywebsite-date-name/*"
10    }
11  ]
12 }
```

Edit statement

Select a statement
Select an existing statement in
add a new statement

[+ Add new statement](#)

- Moodle
- Permission.json

Weboldal létrehozása - Engedélyek

aws [Search] [Alt+S] Europe (Stockholm)

Amazon S3 > Buckets > mywebsite-date-name > Edit bucket policy

12

+ Add new statement

JSON Ln 12, Col 1

Security: 0 Errors: 0 Warnings: 0 Suggestions: 0 Preview external access

✖ Your bucket policy changes can't be saved

You either don't have permission to edit the bucket policy, or your bucket policy grants a level of public access that conflicts with your Block Public Access settings. To edit a bucket policy, you need the `s3:PutBucketPolicy` permission. To review which Block Public Access settings are turned on, view your [account](#) and [bucket settings](#). Learn more about [Identity and access management in Amazon S3](#).

▶ API response

Diagnose with Amazon

Cancel Save changes

aws [Search] [Alt+S] Europe (Stockholm) ACCOUNT ID: 4933-5428-0892 Imo

Amazon S3 > Buckets > mywebsite-date-name > Edit Block public access (bucket settings)

Edit Block public access (bucket settings) Info

Block public access (bucket settings)

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 all your S3 buckets and 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 your buckets 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.
- ☐ **Block public access to buckets and objects granted through any access control lists (ACLs)**
S3 will ignore all ACLs that grant public access to buckets and objects.
- ☐ **Block public access to buckets and objects granted through new public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- ☐ **Block public and cross-account access to buckets and objects through any public bucket or access point policies**
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Cancel Save changes

Weboldal létrehozása - Fájlok

- Moodle
- Index.html

mywebsite-date-name Info

Objects Properties Permissions Metrics Management Access Points

Objects (2)

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"/>	index.html	html	October 14, 2025, 13:51:26 (UTC+02:00)	431.0 B	Standard
<input type="checkbox"/>	tihany.jpg	jpg	October 14, 2025, 13:50:51 (UTC+02:00)	214.8 KB	Standard

Disabled

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

We recommend using AWS Amplify Hosting for static website hosting
Deploy a fast, secure, and reliable website quickly with AWS Amplify Hosting. Learn more about [Amplify Hosting](#) or [View your existing Amplify apps](#)

Create Amplify app

S3 static website hosting
Disabled

Statikus weboldal

aws Search [Alt+S] Europe (Stockholm)

Amazon S3 > Buckets > mywebsite-date-name

Object Lock

Store objects using a write-once-read-many (WORM) model to help you prevent objects from being deleted or overwritten of time or indefinitely. Object Lock works only in versioned buckets. [Learn more](#)

Object Lock
Disabled

Requester pays

When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled.

Requester pays
Disabled

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

We recommend using AWS Amplify Hosting for static website hosting
Deploy a fast, secure, and reliable website quickly with AWS Amplify Hosting. Learn more about [Amplify Hosting](#) or [View your existing Amplify apps](#)

Create

S3 static website hosting
Enabled

Hosting type
Bucket hosting

Bucket website endpoint
When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)

<http://mywebsite-date-name.s3-website.eu-north-1.amazonaws.com>



Welcome to my journey with UJS - S3

Amazon S3 --- Let it RIP!

