

AWS Gyakorlat Storage

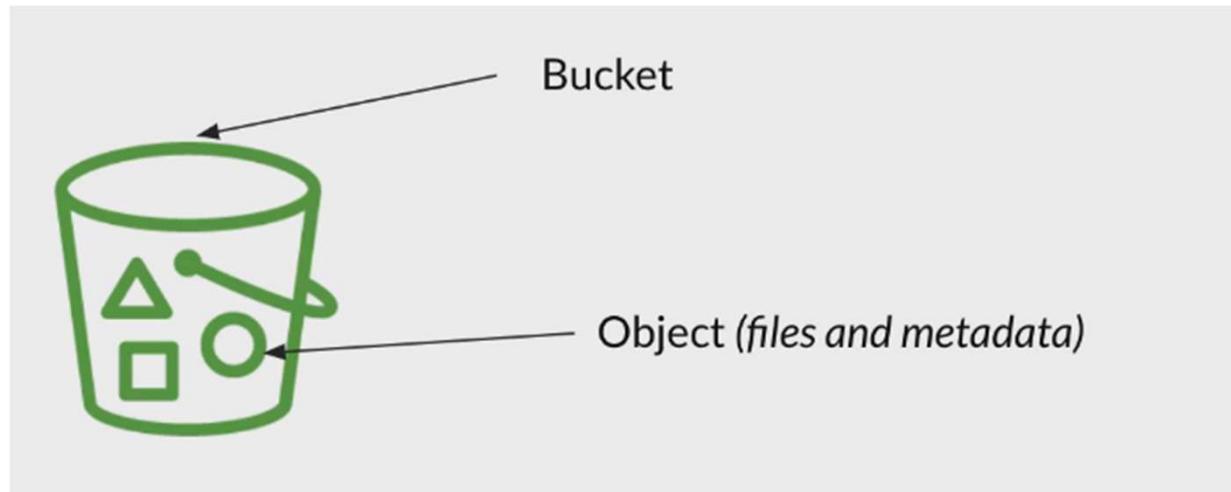
Felde Imre

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

The top screenshot shows the AWS search results for 's3'. It includes a sidebar with links to Services, Features, Documentation, Knowledge articles, Marketplace, Blog posts, Events, and Tutorials. The main content area lists 'Top features' such as Buckets, Storage Lens dashboards, Batch Operations, S3 Express One Zone, and S3 Access Grants. The bottom screenshot shows the Amazon S3 landing page. It features a large 'Create a bucket' button at the top right, which is circled in red. The page also includes sections for 'How it works', 'Pricing', and a detailed description of what S3 is.

Bucket létrehozása

The screenshot shows the 'Create bucket' wizard in the AWS S3 console. The first step, 'General configuration', is selected. It includes fields for 'AWS Region' (set to 'Europe (Stockholm) eu-north-1'), 'Bucket type' (set to 'General purpose'), 'Bucket name' (set to 'sja-new-bucket'), and a 'Copy settings from existing bucket - optional' section. A note at the bottom says 'Format: s3://bucket/prefix'.

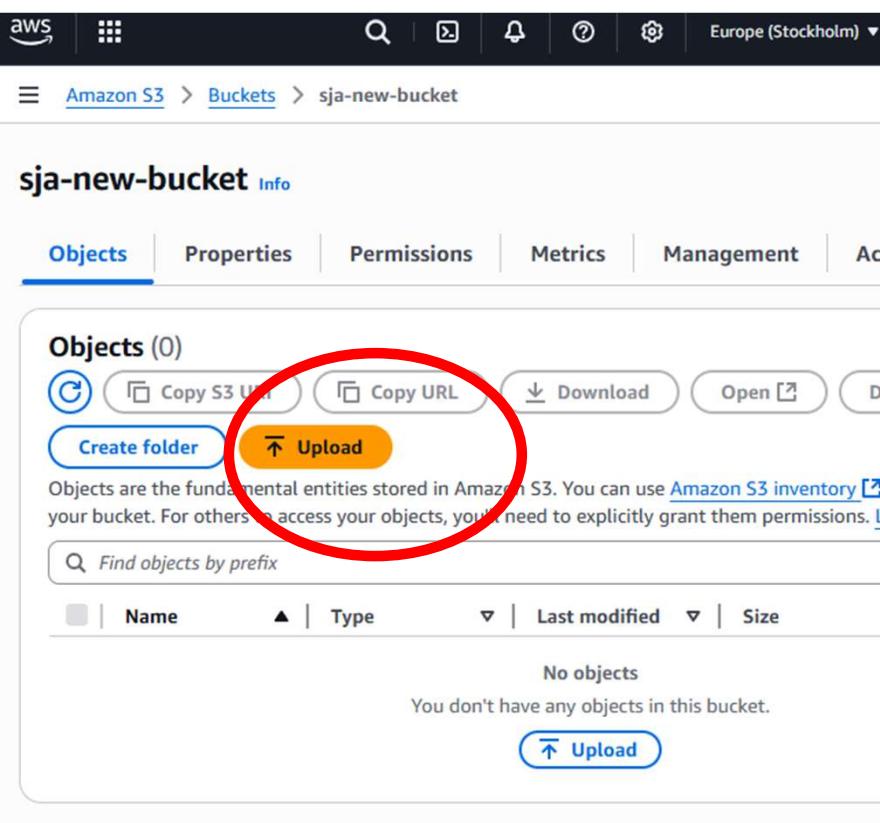
The screenshot shows the 'Advanced settings' step of the 'Create bucket' wizard. It includes sections for 'Object Ownership' (set to 'Bucket owner enforced'), 'Block Public Access settings for this bucket' (with 'Block all public access' checked), and 'Default encryption' (set to 'Server-side encryption with Amazon S3 managed keys (SSE-S3)'). A note at the bottom says 'After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.'

Bucket létrehozása

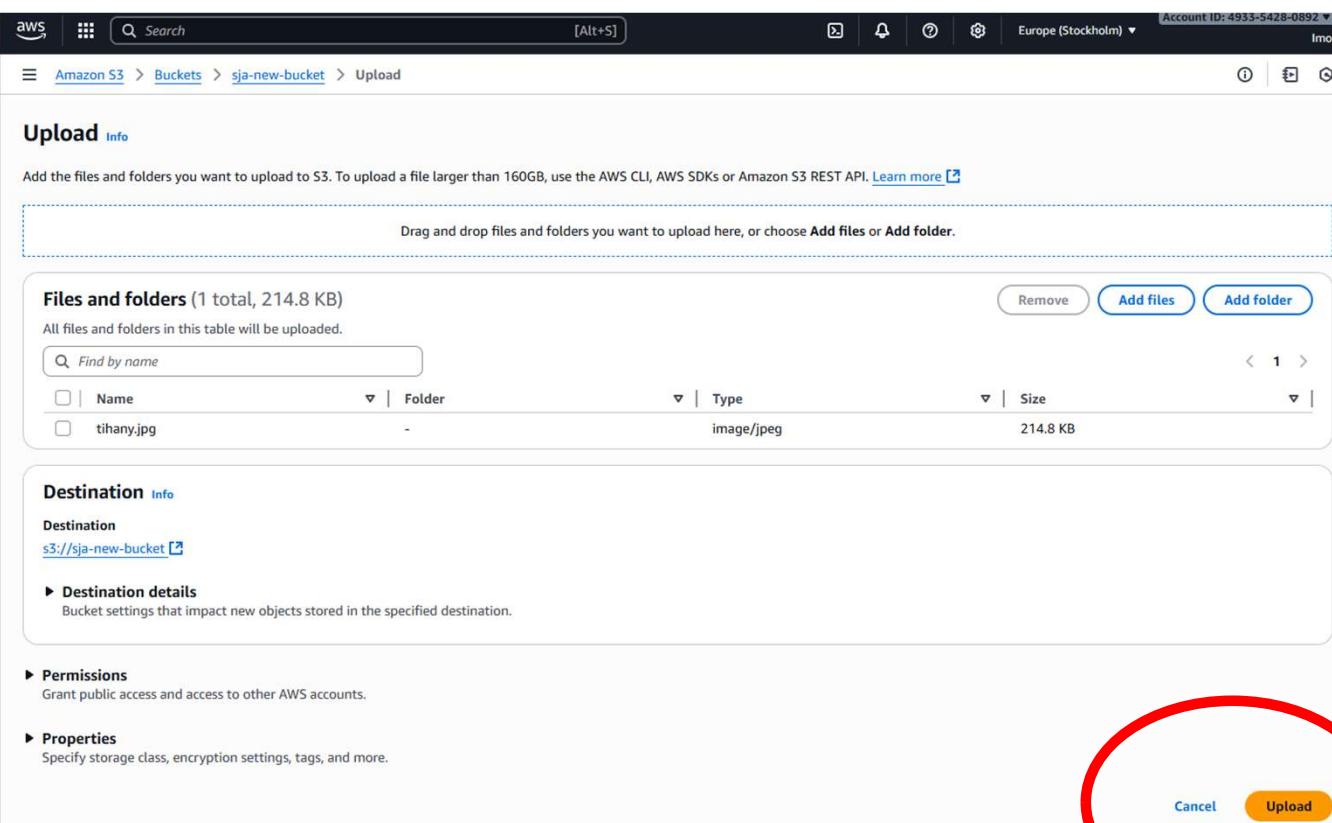
The screenshot shows the AWS S3 Buckets page. At the top, there is a green success message: "Successfully created bucket 'sja-new-bucket'. To upload files and folders, or to configure additional bucket settings, choose View details." Below this, the "General purpose buckets" section lists one item: "sja-new-bucket". A red circle highlights this entry. The table includes columns for Name, AWS Region, and Creation date. The "sja-new-bucket" row shows "Europe (Stockholm)" and "eu-north-1" under AWS Region, and "October 14, 2025, 12:51:46 (UTC+02:00)" under Creation date. There are buttons for Copy ARN, Empty, Delete, and Create bucket.

The screenshot shows the AWS S3 Bucket details page for "sja-new-bucket". The top navigation bar shows the path: Amazon S3 > Buckets > sja-new-bucket. The main tab is "Objects". The "Objects (0)" section has a table header with columns: Name, Type, Last modified, Size, and Storage class. Below the table, it says "No objects" and "You don't have any objects in this bucket." There is a prominent "Upload" button at the bottom.

File feltöltése



The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with the AWS logo, search bar, and account information. Below it, the breadcrumb navigation shows 'Amazon S3 > Buckets > sja-new-bucket'. The main area is titled 'sja-new-bucket' with an 'Info' link. A horizontal menu bar includes 'Objects' (which is selected), 'Properties', 'Permissions', 'Metrics', 'Management', and 'Actions'. Under the 'Objects' section, there's a table header for 'Objects (0)' with columns for Name, Type, Last modified, and Size. A search bar at the bottom allows filtering by prefix. At the bottom of the page, there's a large orange 'Upload' button with a white arrow icon.



The screenshot shows the 'Upload' wizard in the AWS S3 console. The top navigation bar includes the AWS logo, search bar, and account information. The breadcrumb navigation shows 'Amazon S3 > Buckets > sja-new-bucket > Upload'. The main area is titled 'Upload' with an 'Info' link. It instructs users to add files or folders. A central area shows a table titled 'Files and folders (1 total, 214.8 KB)' containing one item: 'tihany.jpg' (image/jpeg, 214.8 KB). Buttons for 'Remove', 'Add files', and 'Add folder' are available. Below this, the 'Destination' section shows the destination as 's3://sja-new-bucket'. It includes sections for 'Destination details' (Bucket settings), 'Permissions' (Grant public access), and 'Properties' (Specify storage class, encryption settings, tags, and more). At the bottom right, there are 'Cancel' and 'Upload' buttons, with the 'Upload' button highlighted with a red circle.

Fájlok rendezése

The screenshot shows the 'Create folder' dialog in the AWS S3 console. At the top, there's a warning message: 'Your bucket policy might block folder creation'. It explains that if a bucket policy prevents uploading objects without specific tags, metadata, or access control list (ACL) grantees, folder creation will fail. Instead, it suggests using the 'upload configuration' to upload an empty folder and specify the appropriate settings.

Folder

Folder name: photo-folder /

Server-side encryption

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

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

The screenshot shows the 'sja-new-bucket' overview page in the AWS S3 console. A green success message at the top states: 'Successfully created folder "photo-folder".' Below it, the bucket details are shown:

sja-new-bucket

Objects (1/2)

Name	Type	Last modified
photo-folder/	Folder	-
tihany.jpg	jpg	October 14, 2025, 13:04:47 (UTC+02:00)

Actions: 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 AWS S3 console interface. At the top, there is a navigation bar with the AWS logo, a search bar, and account information (Account ID: 49, Europe (Stockholm)). Below the navigation bar, the path is shown as Amazon S3 > Buckets > sja-new-bucket > photo-folder/. The main title is "photo-folder/". There are two tabs: "Objects" (selected) and "Properties".

Below the tabs, there is a toolbar with several buttons: "Copy S3 URI", "Copy URL", "Download", "Open", "Delete" (which is circled in red), and "Actions". There are also "Create folder" and "Upload" buttons.

The main area displays the "Objects (1/1)" section. A message states: "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. If you want others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)".

Below this, there is a search bar labeled "Find objects by prefix" and a pagination indicator showing "1".

The table below lists the object "tihany.jpg". The columns are: Name, Type, Last modified, Size, and Storage class. The object details are: Name: tihany.jpg, Type: jpg, Last modified: October 14, 2025, 13:25:32 (UTC+02:00), Size: 214.8 KB, Storage class: Standard. The "Name" column has a checked 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 'Create bucket' wizard in the AWS S3 console. The top navigation bar includes the AWS logo, search bar, and various navigation icons. The breadcrumb path indicates the user is at 'Amazon S3 > Buckets > Create bucket'. The main section is titled 'Create bucket' with a 'Info' link. A descriptive text states: 'Buckets are containers for data stored in S3.' Below this, the 'General configuration' section is shown.

AWS Region: Europe (Stockholm) eu-north-1

Bucket type: General purpose (selected)

Bucket name: mywebsite_date-name

Copy settings from existing bucket - optional: Choose bucket

Object Ownership: Info

Weboldal létrehozása - Engedélyek

The screenshot shows the AWS S3 console interface for a bucket named "mywebsite-date-name". The top navigation bar includes the AWS logo, search bar, and account information. Below the navigation is a breadcrumb trail: Amazon S3 > Buckets > mywebsite-date-name. The main content area has tabs for Objects, Properties, Permissions, Metrics, Management, and Access Points. The Permissions tab is highlighted and circled in red. Under the Permissions tab, there's a section for "Permissions overview" which includes "Access finding" and a link to "How IAM analyzer findings work". Below this is a "Block public access (bucket settings)" section with a "Block all public access" toggle set to "On" and a link to "Individual Block Public Access settings for this bucket". At the bottom is a "Bucket policy" section with an "Edit" button circled in red.

This screenshot shows the same AWS S3 console interface for the "mywebsite-date-name" bucket, focusing on the Permissions tab. The "Permissions overview" section is visible, showing "Access finding" and a link to "How IAM analyzer findings work". The "Block public access (bucket settings)" section shows "Block all public access" is turned "On". The "Bucket policy" section at the bottom has an "Edit" button circled in red.

Weboldal létrehozása - Engedélyek

The screenshot shows the 'Edit bucket policy' interface in the AWS S3 console. At the top, there's a navigation bar with the AWS logo, search bar, and account information. Below it, the breadcrumb navigation shows 'Amazon S3 > Buckets > mywebsite-date-name > Edit bucket policy'. The main area is titled 'Edit bucket policy' with a 'Bucket policy' section. It includes tabs for 'Policy examples' and 'Policy'. A note states: 'The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects on other accounts.' Below this is a 'Bucket ARN' field containing 'arn:aws:s3:::mywebsite-date-name', which is circled in red. To the right is a 'Policy' section with a JSON editor. The JSON code is:

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

A red arrow points from the circled 'Bucket ARN' to the 'Resource' field in the JSON code. To the right of the JSON editor is a sidebar with 'Edit statement' and 'Select a statement' sections, and a button for '+ Add new statement'.

- Moodle
- Permission.json

Weboldal létrehozása - Engedélyek

The screenshot shows the AWS S3 'Edit bucket policy' interface. At the top, there's a navigation bar with the AWS logo, search bar, and account information. Below it, the path is 'Amazon S3 > Buckets > mywebsite-date-name > Edit bucket policy'. A large text area is present with a 'JSON' button and a 'Ln 12, Col 1' indicator. At the bottom, there are buttons for 'Add new statement' and 'Preview external access'. A red circle highlights a warning message: 'Your bucket policy changes can't be saved' with the subtext: 'You either don't have the 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'.

The screenshot shows the 'Edit Block public access (bucket settings)' interface. The title is 'Edit Block public access (bucket settings)'. Below it, a section titled 'Block public access (bucket settings)' explains that public access is granted through various methods like ACLs and bucket policies. It includes a note about AWS recommendations and a 'Learn more' link. A red circle highlights the first setting: 'Block all public access'. Below it, there are four other options: 'Block new public access to buckets and objects granted through new access control lists (ACLs)', 'Block public access to buckets and objects granted through any access control lists (ACLs)', 'Block public access to buckets and objects granted through new public bucket or access point policies', and 'Block public and cross-account access to buckets and objects through any public bucket or access point policies'. At the bottom right, there are 'Cancel' and 'Save changes' buttons.

Weboldal létrehozása - Fájlok

The screenshot shows the AWS S3 console interface. At the top, there's a navigation bar with the AWS logo, search bar, and account information. Below it, the path is shown as Amazon S3 > Buckets > mywebsite-date-name. The main area displays the contents of the 'mywebsite-date-name' bucket. A red circle highlights the 'Objects' tab in the navigation bar. The 'Objects' section lists two items: 'index.html' (Type: html) and 'tihany.jpg' (Type: jpg). Both files were uploaded on October 14, 2025, at 13:51:26 (UTC+02:00), with sizes of 431.0 B and 214.8 KB respectively, and both are stored in the Standard storage class. Below the object list, there are buttons for Copy S3 URI, Copy URL, Download, Open, Delete, Actions, Create folder, and Upload. A search bar is also present. To the right, the 'Static website hosting' section is shown, which is currently disabled. It includes a recommendation to use AWS Amplify Hosting, a link to Learn more, and a 'Create Amplify app' button.

- Moodle
- Index.html

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 at 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

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!

