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Національний технічний університет
«Дніпровська політехніка»**



**ЗВІТ
з виконання практичної роботи
з дисципліни
«Аналіз програмного забезпечення»**

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**Дніпро
2025**

Практична робота №4

Тема роботи: AWS S3.

Мета роботи: набування навичок у створенні і розміщенні статичної веб-сторінки на AWS S3.

1. Зареєструватись в системі AWS. Після реєстрації перейти до наступних дій.
2. Створення S3 bucket.

The screenshot displays the AWS console interface for creating a new S3 bucket. The browser address bar shows the URL: eu-north-1.console.aws.amazon.com/s3/bucket/create?region=eu-north-1. The AWS navigation bar at the top includes the search bar, account ID (0550-8191-6062), and the user name (Katerina). The breadcrumb trail indicates the path: 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 low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name [Info](#)
kateryna-horb-bucket-apz
Bucket names must be 3 to 63 characters and unique within the global namespace. Bucket names must also begin and end with a letter or number. Valid characters are 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](#)
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.

Object Ownership

☒ **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](#)

Create S3 bucket | S3 | eu-north-1

eu-north-1.console.aws.amazon.com/s3/bucket/create?region=eu-north-1

Google

Account ID: 0550-8191-6062

Katerina

Amazon S3

Buckets

Create bucket

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.

☐ **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.

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.

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

CloudShell

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Create S3 bucket | S3 | eu-north-1

eu-north-1.console.aws.amazon.com/s3/bucket/create?region=eu-north-1

Google

Account ID: 0550-8191-6062

Katerina

Amazon S3

Buckets

Create bucket

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.

Add new tag

You can add up to 50 tags.

Default encryption [info](#)

Server-side encryption is automatically applied to new objects stored in this bucket.

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Create S3 bucket | S3 | eu-north-1

eu-north-1.console.aws.amazon.com/s3/bucket/create?region=eu-north-1

Google

Account ID: 0550-8191-6062

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Amazon S3

Buckets

Create bucket

Default encryption

Info

Server-side encryption is automatically applied to new objects stored in this bucket.

Encryption type

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](#).

☒ 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

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

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

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S3 buckets | S3 | eu-north-1

eu-north-1.console.aws.amazon.com/s3/buckets?region=eu-north-1

Google

Account ID: 0550-8191-6062

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Amazon S3

Buckets

General purpose buckets

All AWS Regions

Directory buckets

General purpose buckets (1)

Info

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Find buckets by name

< 1 >

Name	AWS Region	Creation date
<input type="radio"/> kateryna-horb-bucket-apz	Europe (Stockholm) eu-north-1	November 9, 2025, 19:59:54 (UTC+02:00)

Account snapshot

Info

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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3. Завантаження HTML-файлу у bucket.

The screenshot shows the AWS S3 console interface. At the top, a green banner indicates "Upload succeeded" for the file "index.html". Below this, a "Summary" section shows the destination as "s3://katernya-horb-bucket-apz" and the upload status as "Succeeded" with 1 file (225.0 B) at 100.00%. The "Files and folders" tab is selected, showing a table with one entry: "index.html" (text/html, 225.0 B, Succeeded).

Upload succeeded
For more information, see the [Files and folders](#) table.

Summary

Destination	Succeeded	Failed
s3://katernya-horb-bucket-apz	1 file, 225.0 B (100.00%)	0 files, 0 B (0%)

Files and folders | Configuration

Files and folders (1 total, 225.0 B)

Find by name

Name	Folder	Type	Size	Status	Error
index.html	-	text/html	225.0 B	Succeeded	-

The screenshot shows the AWS S3 console interface for the bucket "katernya-horb-bucket-apz". The "Objects" tab is selected, showing a table with one entry: "index.html" (html, 225.0 B, Standard). The table includes columns for Name, Type, Last modified, Size, and Storage class.

katernya-horb-bucket-apz Info

Objects (1)

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
index.html	html	November 9, 2025, 20:07:51 (UTC+02:00)	225.0 B	Standard

index.html - Object in S3 bucket

eu-north-1.console.aws.amazon.com/s3/object/kateryna-horb-bucket-apz?region=eu-north-1&prefix=index.html

Amazon S3 Buckets kateryna-horb-bucket-apz index.html

Copy S3 URI Download Open Object actions

Properties Permissions Versions

Object overview

Owner e5997fd725985d02fa0deac5e8ee844bc4954a07fe2efbd74fa35aea3647cdd0	S3 URI s3://kateryna-horb-bucket-apz/index.html
AWS Region Europe (Stockholm) eu-north-1	Amazon Resource Name (ARN) arn:aws:s3::kateryna-horb-bucket-apz/index.html
Last modified November 9, 2025, 20:07:51 (UTC+02:00)	Entity tag (Etag) 72ced119ae50d0590e315c5f29a10213
Size 225.0 B	Object URL https://kateryna-horb-bucket-apz.s3.eu-north-1.amazonaws.com/index.html
Type html	
Key index.html	

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4. Налаштування хостингу та отримання адреси сторінки.

Edit Object Ownership - S3 bucket

eu-north-1.console.aws.amazon.com/s3/bucket/kateryna-horb-bucket-apz/property/oo/edit?region=eu-north-1

Amazon S3 Buckets kateryna-horb-bucket-apz Edit Object Ownership

Object Ownership

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.

Object Ownership

☐ 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.

⚠ We recommend disabling ACLs, unless you need to control access for each object individually or to have the object writer own the data they upload. Using a bucket policy instead of ACLs to share data with users outside of your account simplifies permissions management and auditing.

⚠ Enabling ACLs turns off the bucket owner enforced setting for Object Ownership
Once the bucket owner enforced setting is turned off, access control lists (ACLs) and their associated permissions are restored. Access to objects that you do not own will be based on ACLs and not the bucket policy.

☒ I acknowledge that ACLs will be restored.

Object Ownership

☒ Bucket owner preferred
If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.

☐ Object writer

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index.html - Object in S3 bucket

eu-north-1.console.aws.amazon.com/s3/object/kateryna-horb-bucket-apz?region=eu-north-1&prefix=index.html&tab=permissions

Google

Account ID: 0550-8191-6062

Katerina

Amazon S3

Buckets

kateryna-horb-bucket-apz

index.html

index.html

Info

Copy S3 URI

Download

Open

Object actions

Properties

Permissions

Versions

Access control list (ACL)

Edit

Grant basic read/write permissions to AWS accounts. [Learn more](#)

Grantee	Object	Object ACL
Object owner (your AWS account) Canonical ID: e5997fd725985d02fa0deac5e8ee844bc4954a07fe2efbd74fa35aea3647cdd0	Read	Read, Write
Everyone (public access) Group: http://acs.amazonaws.com/groups/global/AllUsers	-	-
Authenticated users group (anyone with an AWS account) Group: http://acs.amazonaws.com/groups/global/AuthenticatedUsers	-	-

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Edit access control list (ACL) - S3

eu-north-1.console.aws.amazon.com/s3/buckets/kateryna-horb-bucket-apz/object/edit_acl?region=eu-north-1&prefix=index.h...

Google

Account ID: 0550-8191-6062

Katerina

Amazon S3

Buckets

kateryna-horb-bucket-apz

index.html

Edit access control list

Access control list (ACL)

Grant basic read/write permissions to AWS accounts. [Learn more](#)

Grantee	Objects	Object ACL
Object owner (your AWS account) Canonical ID: e5997fd725985d02fa0deac5e8ee844bc4954a07fe2efbd74fa35aea3647cdd0	<input checked="" type="checkbox"/> Read	<input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write
Everyone (public access) Group: http://acs.amazonaws.com/groups/global/AllUsers	<input checked="" type="checkbox"/> Read	<input checked="" type="checkbox"/> Read <input type="checkbox"/> Write
Authenticated users group (anyone with an AWS account) Group: http://acs.amazonaws.com/groups/global/AuthenticatedUsers	<input checked="" type="checkbox"/> Read	<input checked="" type="checkbox"/> Read <input type="checkbox"/> Write

⚠ When you grant access to the Everyone or Authenticated users group grantees, anyone in the world can access this object. [Learn more](#)

☒ I understand the effects of these changes on this object.

Access for other AWS accounts

No other AWS accounts associated with the resource.

Add grantee

Specified objects

Name	Type	Last modified	Size
index.html	html	November 9, 2025, 20:07:51 (UTC+02:00)	225.0 B

Cancel Save changes

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5. Створена веб-сторінка.



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124-22-2

Результат виконання роботи

<https://kateryna-horb-bucket-apz.s3.eu-north-1.amazonaws.com/index.html>