

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ НАЦІОНАЛЬНИЙ  
ТЕХНІЧНИЙ УНІВЕРСИТЕТ  
«ДНІПРОВСЬКА ПОЛІТЕХНІКА»

ФАКУЛЬТЕТ ІНФОРМАЦІЙНИХ ТЕХНОЛОГІЙ

Кафедра системного аналізу та управління

Лабораторна робота №4

з дисципліни  
«Аналіз програмного забезпечення»

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Дніпро

2025

## Тема: AWS S3.

Мета: Набування навичок у створення і розміщенні статичної веб-сторінки на AWS S3.

Основні кроки виконання:

Крок 1. Зареєструватися в системі AWS.

Крок 2. Створити бакет у S3 з вашим прізвищем та іменем.

Крок 3. Розмістити на S3 статичну веб-сторінку, яка містить ваше ПІБ та Вашу академічну групу.

Крок 4. Налаштування хостингу і отримання публічної адреси сторінки, наприклад: <https://kbaleiko-bucket-apz.s3-website.eu-north-1.amazonaws.com/>

### Хід роботи

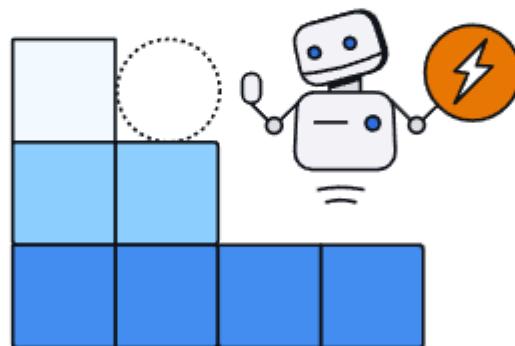
#### Крок 1

1. Переходимо за посиланням <https://aws.amazon.com/> та створюємо новий акаунт.

The screenshot shows the 'Sign up for AWS' page. On the left, there's a section titled 'Explore Free Tier products with a new AWS account.' Below it is a small illustration of a hand holding three cubes. On the right, the main form has two input fields: 'Root user email address' and 'AWS account name'. Both fields have placeholder text and explanatory text below them. A large orange 'Verify email address' button is centered between the fields. Below the button is a horizontal line with 'OR' in the center. At the bottom is a link 'Sign in to an existing AWS account'.

2. Вводимо свій email, ім'я і прізвище, пароль. Далі підтверджуємо свій акаунт через електронну пошту.

3. Вводимо платіжні дані.



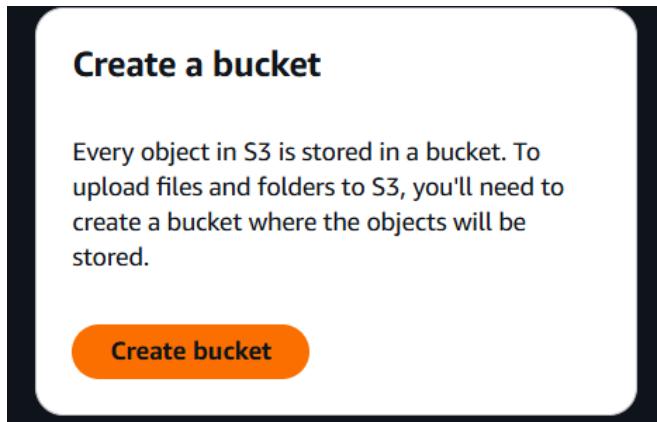
#### ↳ Выполняется настройка вашего аккаунта AWS

Подождите немного! Этот процесс занимает около 10 секунд.

4. Після перевірки переходимо до наступного кроку.

## Крок 2

1. Входимо у AWS Console: <https://console.aws.amazon.com/s3/> та натискаємо Create bucket.



## 2. Заповнюємо його.

**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  
nekrasov-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

**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.

## 3.

## Маємо створений bucket:

The screenshot shows the AWS S3 console. At the top, a green banner indicates 'Successfully created bucket "nekrasov-bucket-apz"' with a link to 'View details'. Below the banner, there are two tabs: 'General purpose buckets' (selected) and 'All AWS Regions'. On the left, under 'General purpose buckets', there is a search bar and a table with one row. The table columns are 'Name', 'AWS Region', and 'Creation date'. The single entry is 'nekrasov-bucket-apz' from 'Europe (Stockholm) eu-north-1' created on 'November 16, 2025, 16:49:16 (UTC+02:00)'. To the right of the table are two cards: 'Account snapshot' (updated daily) and 'External access summary - new' (updated daily).

## Крок 3

1. Створюємо у блокноті на комп'ютері файл index.html з наступним  
вмістом:

The screenshot shows a code editor window titled 'index.html'. The code is an HTML file with CSS styles. It includes a title 'гр. 122-22-6 Некрасов Володимир Олександрович АПЗ лаб4', a large font section for 'гр. 122-22-6', a medium font section for 'Некрасов Володимир Олександрович', and a small font section for 'АПЗ лаб4'. The CSS uses a light blue gradient background and white text.

```
<!DOCTYPE html>
<html lang="uk">
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width,initial-scale=1" />
    <title>гр. 122-22-6 Некрасов Володимир Олександрович АПЗ лаб4</title>
    <style>
        :root{--bg:#0f172a;--card:#0b1220;--accent:#60a5fa}
        html,body{height:100%;margin:0}
        body{
            display:flex;align-items:center;justify-content:center;
            background:linear-gradient(180deg,var(--bg),#020617);
            font-family:system-ui,-apple-system,"Segoe UI",Roboto,'Helvetica Neue',Arial;
            color:#fff;
        }
        .wrap{
            text-align:center;padding:48px;border-radius:16px;background:rgba(255,255,255,0.02);
            box-shadow:0 10px 30px rgba(2,6,23,0.6);backdrop-filter:blur(6px);
            max-width:1000px;margin:20px;
        }
        .large{font-size:56px;line-height:1;margin:8px 0;font-weight:700}
        .medium{font-size:42px;line-height:1;margin:6px 0;font-weight:600}
        .small{font-size:32px;line-height:1;margin:6px 0;font-weight:500}
        @media (max-width:600px){.large{font-size:34px}.medium{font-size:24px}.small{font-size:20px}}
    </style>
</head>
<body>
    <div class="wrap">
        <div class="large">гр. 122-22-6</div>
        <div class="medium">Некрасов Володимир Олександрович</div>
        <div class="small">АПЗ лаб4</div>
    </div>
</body>
</html>
```

2. Повернемось в AWS S3 та відкрімо створений бакет, після цього  
перейдемо у вкладку Objects → Upload та завантажимо створений файл  
index.html.

The screenshot shows the 'Upload' interface in the AWS S3 console. It displays a table with one row for 'index.html.txt'. The table has columns for 'Name', 'Type', and 'Size'. The file is a plain text file (text/plain) with a size of 232.0 B. There are buttons for 'Remove', 'Add files', and 'Add folder' at the top right.

### 3. Змінюємо налаштунки доступу.

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.

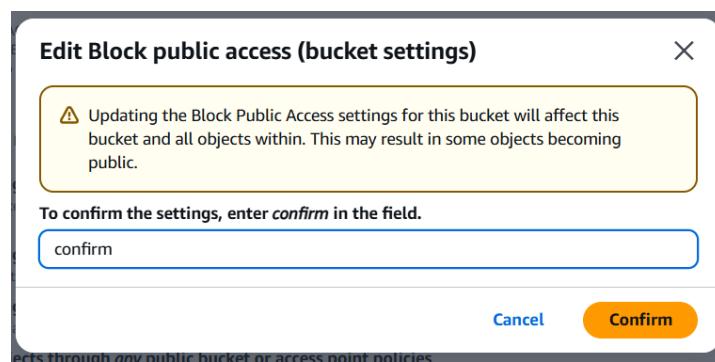
**Block public access to buckets and objects granted through new access control lists (ACLs)**  
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**Block public and cross-account access to buckets and objects through any public bucket or access point policies**  
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

[Cancel](#) [Save changes](#)



### Крок 4

1. Повертаємось в AWS S3 та відкриємо створений бакет, далі потрібно обрати Properties та прокрутити до Static website hosting. Далі натискаємо Edit і вмикаємо "Enable".

Static website hosting [Edit](#)

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  
Disabled

[Create Amplify app ↗](#)

2. У полі Index document вказуємо index.html і натискаємо Save changes.

Edit static website hosting [Info](#)

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

**Static website hosting**  
 Disable  
 Enable

**Hosting type**  
 Host a static website  
    Use the bucket endpoint as the web address. [Learn more](#)  
 Redirect requests for an object  
    Redirect requests to another bucket or domain. [Learn more](#)

ⓘ For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

**Index document**  
Specify the home or default page of the website.

3. Тепер у вкладці Properties, знаходимо Static website hosting, там отримаємо наш URL:

<http://nekrasov-bucket-apz.s3-website.eu-north-1.amazonaws.com>

**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**  
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://nekrasov-bucket-apz.s3-website.eu-north-1.amazonaws.com>

4. Отримуємо результат.

