

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ

Національний технічний університет «Дніпровська політехніка»



Кафедра Системного аналізу та управління

ЗВІТ

Лабораторна робота №4

З дисципліни «Аналіз програмного забезпечення»

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м. Дніпро

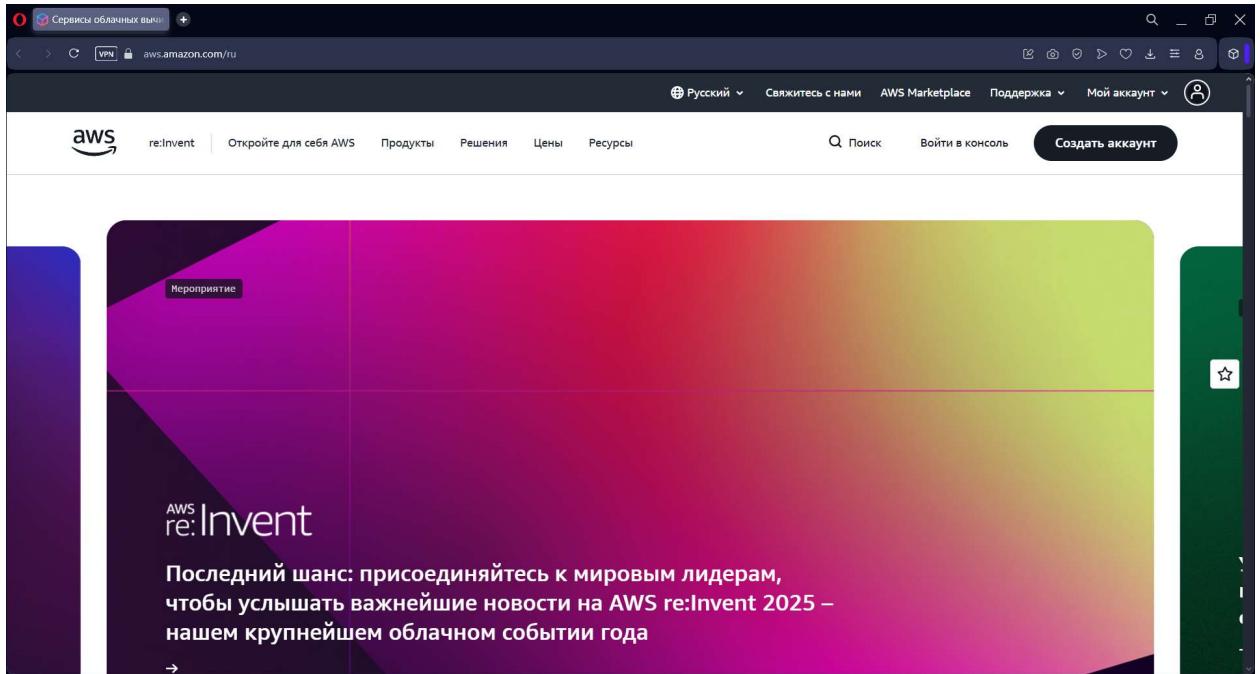
2025

Тема: AWS S3.

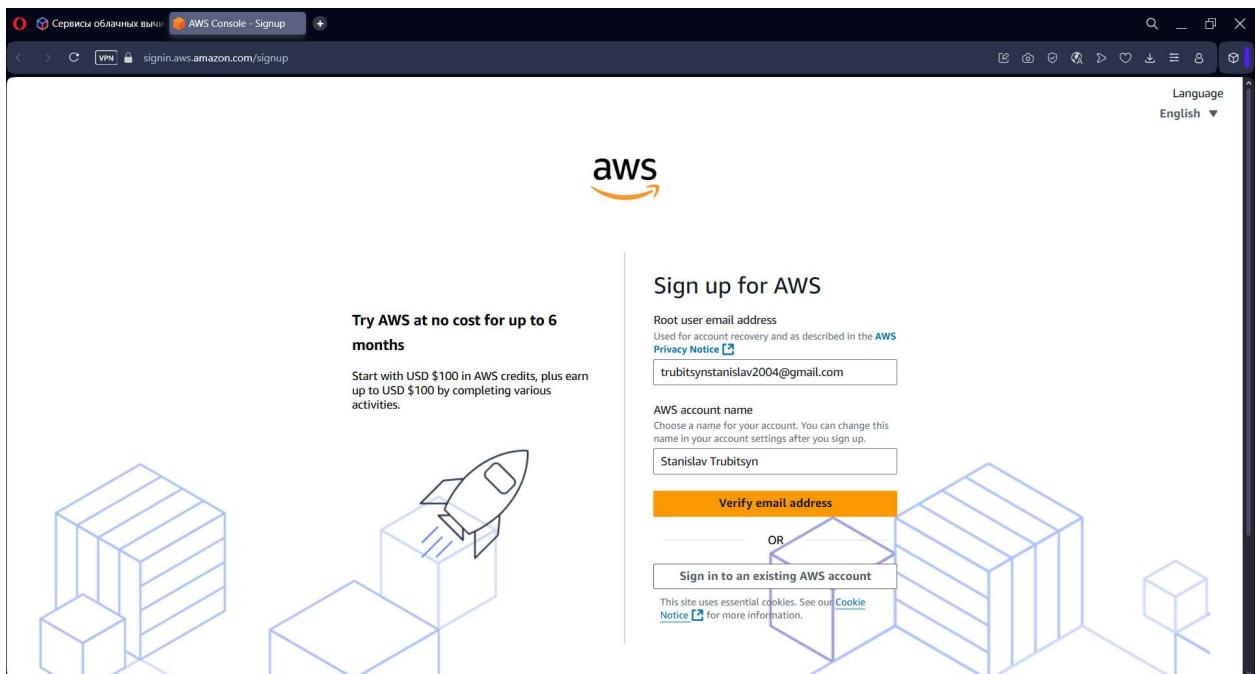
Мета: Набування навичок у створення і розміщенні статичної веб-сторінки на AWS S3.

Хід роботи

- Переходимо за посиланням <https://aws.amazon.com/>



- Натискаємо Create account.
- Вводимо свій email, ім'я і прізвище, пароль. Далі підтвердить свій акаунт через електронну пошту.

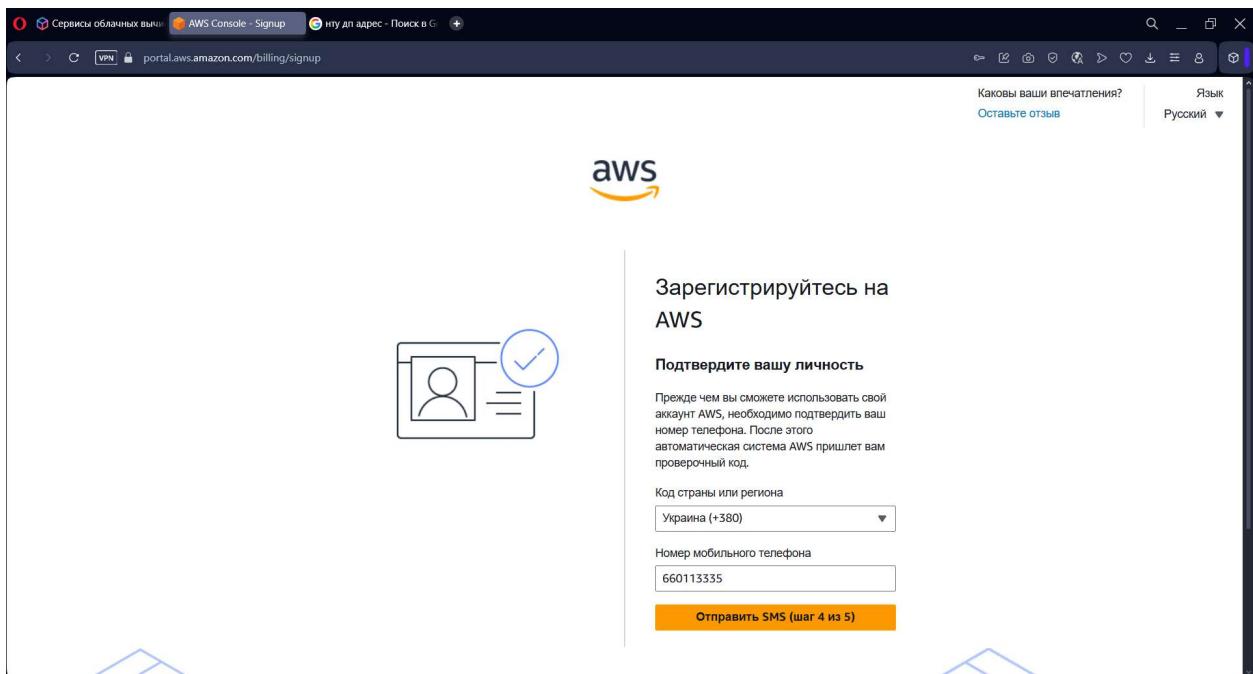


4. Вводимо платіжні дані.

The screenshot shows the AWS Billing Signup page. On the left, there's a sidebar with the text "Получайте дополнительные кредиты AWS" (Get additional AWS credits) and a small icon of a dollar bill. The main content area has a heading "Зарегистрируйтесь на AWS". Below it, there's a section titled "Контактные сведения" (Contact information) with fields for "Как вы планируете использовать AWS?" (How will you use AWS?), "ФИО" (Name), "Код страны" (Country code), "Номер телефона" (Phone number), "Страна или регион" (Country or region), and "Адресная строка 1" (Address line 1). A note at the bottom says "С кем мы должны связаться по поводу этого аккаунта?" (With whom should we contact about this account?).

The screenshot shows the AWS Billing Signup page with a detailed payment information section. On the left, there's a box titled "Почему это необходимо?" (Why is this necessary?) containing text about a \$1 USD charge being held for 3-5 days to prevent fraud. Below this is a shield icon with a checkmark. The main content area has a heading "Зарегистрируйтесь на AWS" and a section titled "Информация для выставления счетов" (Billing information). It includes fields for "Страна плательщика" (Billing country), "Номер кредитной или дебетовой карты" (Credit/debit card number), logos for VISA, MasterCard, American Express, and Discover, and sections for "Срок действия" (Expiry date) and "Код безопасности" (Security code/CVV/CVC). A note at the bottom says "AWS принимает наиболее известные кредитные и дебетовые карты. Чтобы узнать подробнее о вариантах оплаты, ознакомьтесь с часто задаваемыми вопросами по этой теме" (AWS accepts the most well-known credit and debit cards. To learn more about payment options, refer to the frequently asked questions on this topic).

5. Підтверджуємо особу (SMS/дзвінок).



6. Завершуємо реєстрацію та входимо у AWS Management Console.

The screenshot shows the AWS Management Console interface. The top navigation bar includes 'AWS' and 'Search' fields, and a dropdown for 'Account ID: 9934-5809-6262'. The main content area is titled 'Account info' under 'Billing and Cost Management'. On the left, a sidebar lists various services: 'Home', 'Getting Started', 'Dashboards', 'Billing and Payments' (with 'Bills', 'Payments', 'Credits', 'Purchase Orders'), 'Cost and Usage Analysis' (with 'Cost Explorer', 'Cost Explorer Saved Reports', 'Cost Anomaly Detection', 'Free Tier', 'Data Exports'), and 'CloudShell' and 'Feedback' buttons. The main panel shows 'Account details' with fields for 'Name' (Stanislav Trubitsyn), 'ID' (993458096262), 'Service provider' (Amazon Web Services EMEA SARL), and 'ARN' (arn:aws:account::993458096262:account). It also contains 'Account display settings - new' (with 'Edit' button) and 'Contact information' (with 'Edit' button) sections. The contact information includes 'Full name' (Трубіцький Станіслав Вадиович), 'Company name' (None), 'Phone number' (+380 660113335), 'Website URL' (None), and 'Address' (проспект Дмитра Яворницького, 19, Дніпро, Dnipro region 49044 UA).

7. Входимо у AWS Console: <https://console.aws.amazon.com/s3/>

Storage

Amazon S3

Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

Create a bucket

Pricing

With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.

Estimate your monthly bill using the [AWS Simple Monthly Calculator](#)

[View pricing details](#)

How it works

Introduction to Amazon S3 | Amazon Web Services

CloudShell Feedback

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8. Натискаємо Create bucket.

Serвиси облачних видів | Account | Billing and Cost | Create S3 bucket | S3 | eu | +

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

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 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](#)
pmzn-s3-demo-bucket

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.

CloudShell Feedback

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9. Заповнюємо:

Bucket name: обов'язково включаємо наше прізвище та ім'я латиницею:
stanislav-trubitsyn-bucket-apz.

Region: залишаємо за замовчуванням або обираємо найближчий (Europe (Frankfurt)).

The screenshot shows the 'Create bucket' page in the AWS S3 console. In the 'General configuration' section, the 'Bucket name' is set to 'stanislav-trubitsyn-bucket-apz'. Below it, there's a note about bucket naming rules and a 'Choose bucket' button. In the 'Object Ownership' section, 'ACLs disabled (recommended)' is selected, while 'ACLs enabled' is also listed. At the bottom, there are links for CloudShell, Feedback, and a copyright notice.

10. Знімаємо галочку з "Block all public access" та підтверджуємо галочкою, що ми розуміємо наслідки публічного доступу.

The screenshot shows the 'Block Public Access settings for this bucket' section. It contains several checkboxes for different access control options. A warning message states that turning off 'Block all public access' might result in the bucket becoming public. A checkbox labeled 'I acknowledge that the current settings might result in this bucket and the objects within becoming public.' is checked. At the bottom, there's a 'Bucket Versioning' section and a note about its purpose. The footer includes links for CloudShell, Feedback, and a copyright notice.

11. Натискаємо Create bucket.

The screenshot shows the 'Advanced settings' section. A note at the top says: 'After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.' At the bottom right, there are 'Cancel' and 'Create bucket' buttons.

12. Створюємо файл index.html.

```

index.html
1 <html lang="en">
2   <head>
3     <meta name="viewport" content="width=device-width, initial-scale=1.0" />
4     <title>Stanislav Trubitsyn</title>
5     <link rel="preconnect" href="https://fonts.googleapis.com" />
6     <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin />
7     <link href="https://fonts.googleapis.com/css2?family=Momo+Trust+Display&display=swap" rel="stylesheet"
8
9   <style>
10    body {
11      display: flex;
12      align-items: center;
13      justify-content: center;
14      flex-direction: column;
15    }
16    .h1 {
17      font-family: 'Momo Trust Display', sans-serif;
18      font-weight: bold;
19      font-style: normal;
20    }
21    .h2 {
22      font-family: 'Momo Trust Display', sans-serif;
23      font-weight: 300;
24      font-style: normal;
25    }
26  </style>
27 </head>
28 <body>
29   <h1 class="h1">Трубішин Станіслав Вадимович</h1>
30   <h2 class="h2">Група: 122-22-3</h2>
31 </body>
32 </html>

```

13. Повертаємось в AWS S3 та відкриваємо створений бакет

stanislav-trubitsyn-bucket-apz

Objects (0)

No objects
You don't have any objects in this bucket.

Upload

14. Переходимо у вкладку Objects → Upload та завантажуємо створений файл index.html

The screenshot shows the AWS S3 console interface. At the top, there are tabs for 'Upload objects - S3 buck' and 'Selection Embed Code'. The main area displays a green success message: 'Upload succeeded. For more information, see the Files and folders table.' Below this, a section titled 'Upload status' shows a summary: 'Destination s3://stanislav-trubitsyn-bucket-apz' with 'Succeeded' (1 file, 983.0 B (100.00%)) and 'Failed' (0 files, 0 B (0%)). A 'Files and folders' tab is selected, showing a table with one item: 'index.html' (text/html, 983.0 B, Status: Succeeded). The bottom of the screen includes standard AWS navigation links like CloudShell, Feedback, and cookie preferences.

15. Обираємо Properties та прокручуємо до Static website hosting.

Далі натискаємо Edit і вмикаємо "Enable".

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

The screenshot shows the 'Edit static website hosting' configuration page. On the left, there's a sidebar with 'Amazon S3' and sections for 'General purpose buckets' (Directory buckets, Table buckets, Vector buckets, Access Grants, Access Points (General Purpose Buckets, FSx file systems), Access Points (Directory Buckets), Object Lambda Access Points, Multi-Region Access Points, Batch Operations, IAM Access Analyzer for S3) and 'Storage Lens' (Dashboards, Storage Lens groups, AWS Organizations settings). The main area has a heading 'Edit static website hosting' with a 'Info' link. It contains two main sections: 'Static website hosting' (with options to 'Disable' or 'Enable', currently set to 'Enable') and 'Hosting type' (with options to 'Host a static website' or 'Redirect requests for an object', currently set to 'Host a static website'). A note below states: '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.' Below these are fields for 'Index document' (set to 'index.html') and 'Error document - optional' (set to 'error.html'). The bottom of the screen includes standard AWS navigation links like CloudShell, Feedback, and cookie preferences.

17. Тепер знову у вкладці Properties, знаходимо Static website hosting, там буде наш URL.

Requester pays
When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled. [Learn more](#)

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://stanislav-trubitsyn-bucket-apz.s3-website.eu-central-1.amazonaws.com>

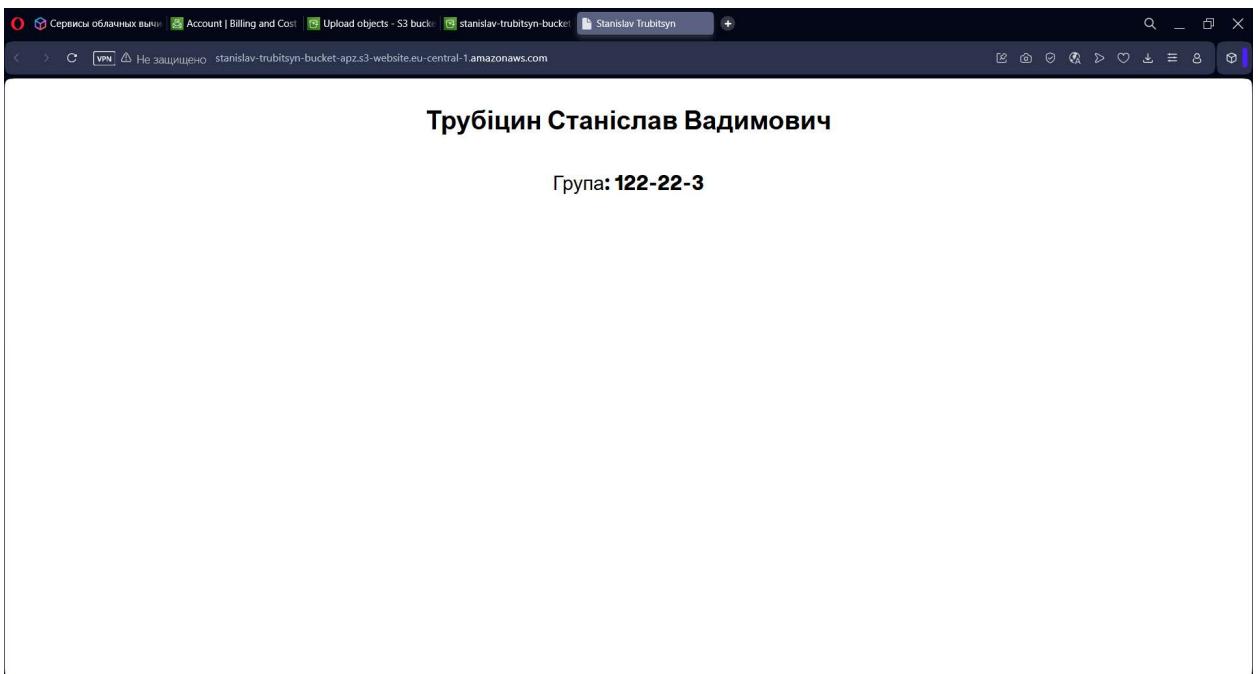
<http://stanislav-trubitsyn-bucket-apz.s3-website.eu-central-1.amazonaws.com>

Для роботи хосту потрібно надати Permissions - Bucket policy

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

```
{  
    "Version": "2012-10-17",  
    "Statement": [  
        {  
            "Sid": "PublicReadGetObject",  
            "Effect": "Allow",  
            "Principal": "*",  
            "Action": "s3:GetObject",  
            "Resource": "arn:aws:s3:::stanislav-trubitsyn-bucket-apz/*"  
        }  
    ]  
}
```

Після чого переходмо за посиланням на нашу сторінку і як результат бачимо нашу простеньку розроблену сторінку:



Висновок: у ході виконання лабораторної роботи було набуто практичних навичок створення, налаштування та розміщення статичної вебсторінки за допомогою хмарного сервісу Amazon Web Services (AWS S3). Було здійснено реєстрацію облікового запису, створено S3 bucket, налаштовано публічний доступ, завантажено HTML-файл та активовано функцію Static Website Hosting. У результаті отримано публічне посилання на працючу вебсторінку, що підтвердило правильність виконання усіх етапів і засвоєння принципів розгортання статичних сайтів у хмарному середовищі.