

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



Факультет інформаційних технологій  
**Кафедра системного аналізу та управління**

**Звіт**  
з практичних робіт 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.

**Очікувані результати навчання:** уміння створити і розмістити сторінку з власними даними на ресурсі AWS S3.

## Хід роботи

**Крок 1.** Зареєструватися в системі AWS.

Я вже маю AWS акаунт, тому цей крок я вимушений пропустити. Для виконання використовую один з моїх IAM юзерів.

The screenshot displays the AWS Account page, which is organized into three main sections: Account details, Account display settings, and Contact information. The Account details section includes fields for Name (escoutdoor), ID (082964050975), Service provider (Amazon Web Services EMEA SARL), and ARN (arn:aws:account::082964050975:account). The Account display settings section shows the Account color set to Unset. The Contact information section includes fields for Full name (Попов Іван Анатолійович), Company name (None), and Address (Dnipro Rai).

Account details		
Name	escoutdoor	
ID	082964050975	
Service provider	Amazon Web Services EMEA SARL	
ARN	arn:aws:account::082964050975:account	

Account display settings - new		
Account color	Unset	

Contact information		
Full name	Company name	Address
Попов Іван Анатолійович	None	Dnipro Rai

Рис. №1. Billing and Cost Management: деталі акаунту.

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

Створюю S3 бакет: вказав своє ім'я та прізвище у назві, зняв блок публічного доступу.

## 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. processing of data within a single Availab

### Bucket name [Info](#)

ivan-popov-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

### 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 settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before . level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific sto

### ☐ 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

#### ☐ 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 existi

#### ☐ 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 c

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

Рис. №2-3. Кроки при створенні S3 бакету.

Створений S3 бакет:

**ivan-popov-bucket-apz** [Info](#)

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

**Bucket overview**

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

**Amazon Resource Name (ARN)**  
 arn:aws:s3::ivan-popov-bucket-apz

**Creation date**  
November 16, 2025, 18:57:27 (UTC+02:00)

**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 both unintended user actions and application failures. [Learn more](#)

**Bucket Versioning**  
Enabled

**Multi-factor authentication (MFA) delete**

An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. [Learn more](#)

**MFA delete**  
Disabled

Рис. №4. Успішно створений бакет

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

Створюю index.html файл з коротеньким текстом та картинкою:

```
<html>
  <head>
  |   <title>Lab 4 APZ</title>
  </head>
  <body>
  |   <h1>I love pets</h1>
  |   <p>Hi from Ivan Popov!</p>
  </body>

  
</html>
```

Рис. №5. Редагування файлу index.html

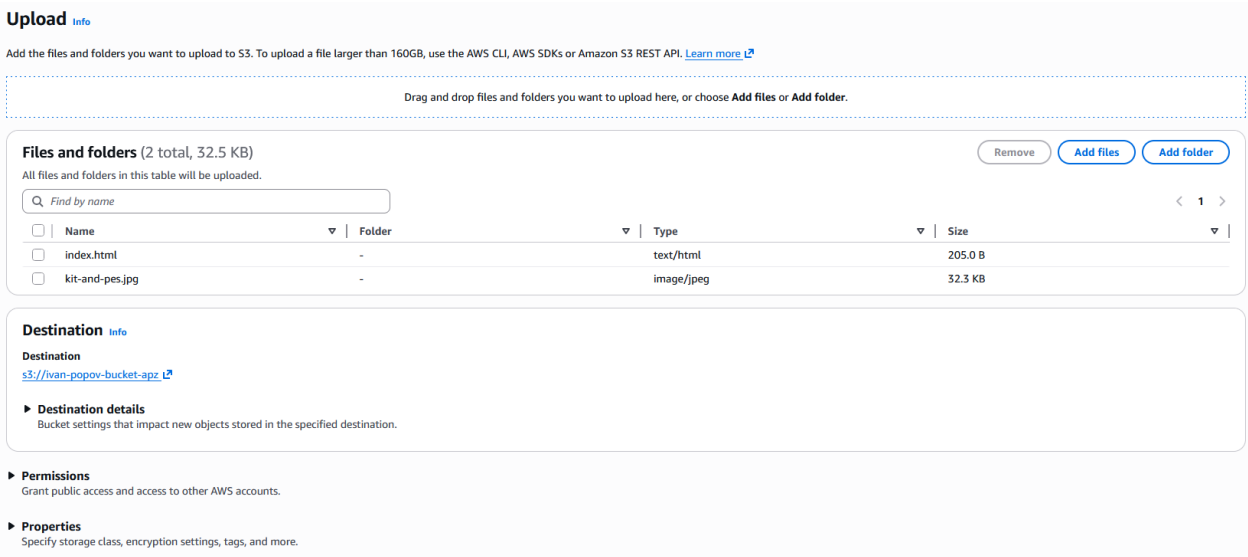


Рис. №6. Завантажуємо картинку та index.html

Налаштуємо S3 Bucket Policy для того, щоб інші користувачі мали доступ до нашого ресурсу. Я скористався AWS Policy Generator і надав право на GetObject для всіх:

**Step 2: Add statement(s)**  
A statement is the formal description of a single permission. See a description of elements [that you can use in statements](#).

Effect  
☒ Allow  
☐ Deny

Principal

Use a comma to separate multiple values.

Actions  
☐ All Actions ("\*")

Amazon Resource Name (ARN)  
☐ All Resources ("\*")

ARN should follow the following format: arn:aws:s3:::ivan-popov-bucket-apz/\*

► Add conditions (optional)

**Statements added (1)**  
You added the following statements. Click the statement to edit.

Principal(s)	Effect	Action	Resource
*	Allow	s3:GetObject	arn:aws:s3:::ivan-popov-bucket-apz/*

**Policy JSON Document**

Click below to edit. To save the policy, copy the text below to a text editor. Changes made below will not be reflected in the policy generator tool.

```
1 {  
2   "Version": "2012-10-17",  
3   "Statement": [  
4     {  
5       "Sid": "Statement1",  
6       "Effect": "Allow",  
7       "Principal": "*",  
8       "Action": [  
9         "s3:GetObject"  
10      ],  
11      "Resource": "arn:aws:s3:::ivan-popov-bucket-apz/*"  
12    }  
13  ]  
14 }
```

1:1 JSON

This AWS Policy Generator is provided for informational purposes only, you are still responsible for your use of Amazon Web Services technologies and ensuring that your use is in compliance with all applicable terms and conditions. This AWS Policy Generator is provided as is without warranty of any kind, whether express, implied, or statutory. This AWS Policy Generator does not modify the applicable terms and conditions governing your use of Amazon Web Services technologies.

### 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](#)

#### Bucket ARN

[ARN](#) arn:aws:s3:::ivan-popov-bucket-apz

#### Policy

```
1 {  
2   "Version": "2012-10-17",  
3   "Statement": [  
4     {  
5       "Sid": "Statement1",  
6       "Effect": "Allow",  
7       "Principal": "*",  
8       "Action": [  
9         "s3:GetObject"  
10      ],  
11      "Resource": "arn:aws:s3:::ivan-popov-bucket-apz/*"  
12    }  
13  ]  
14 }
```

Рис. №7-8. Налаштування S3 Bucket Policy.

Тепер всі можуть отримати наші файли, але лише для читання.

**Крок 4.** Налаштування хостингу і отримання публічної адреси сторінки, наприклад: [https:// kbaleiko-bucket-apz.s3-website.eu-north-1.amazonaws.com/](https://kbaleiko-bucket-apz.s3-website.eu-north-1.amazonaws.com/).

Тепер треба ввімкнути Static website hosting і вказати Index document, який вже завантажив раніше.

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

**Static website hosting**  
Deploy a fast, secure, and reliable website quickly with AWS Amplify Hosting. [Learn more](#)

**S3 static website hosting**  
Disabled

**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 the bucket publicly accessible.**  
[Public Access](#)

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

index.html

Рис. №9-10. Налаштування Static website hosting.

В результаті успішного ввімкнення отримали bucket website endpoint:

### 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](#)

**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 endpoint: <http://ivan-popov-bucket-apz.s3-website.eu-north-1.amazonaws.com>

Рис. №11. Успішна операція, отримали лінк.

Перевіряю:

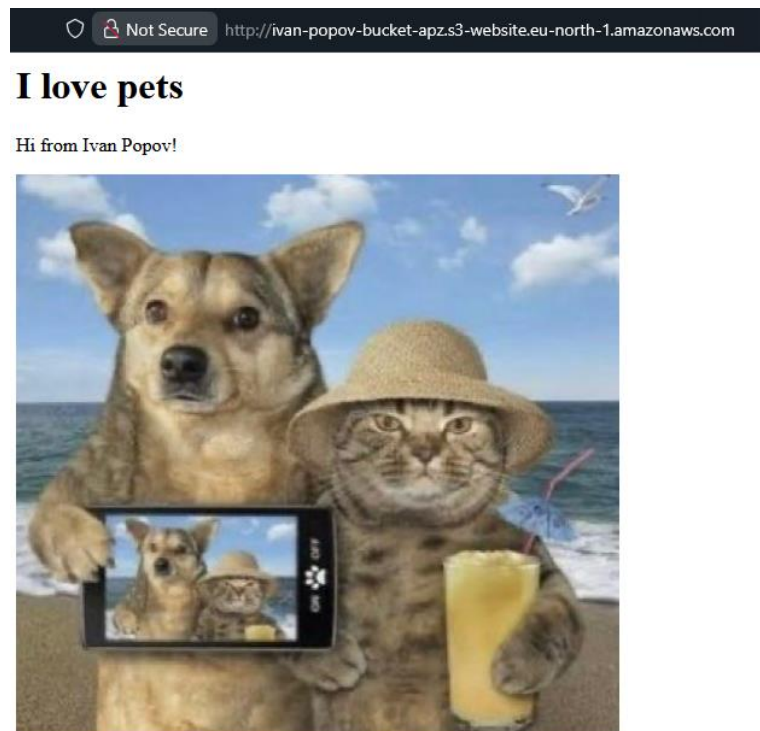


Рис. №12. Отримали наш сайт з повідомленням.

Отримуємо очікуваний результат, все працює відмінно.