

МІНІСТЕРСТВО ОСВІТИ І НАУКИ
УКРАЇНИ НАЦІОНАЛЬНИЙ
ТЕХНІЧНИЙ УНІВЕРСИТЕТ
УКРАЇНИ
«КИЇВСЬКИЙ ПОЛІТЕХНІЧНИЙ ІНСТИТУТ ІМЕНІ ІГОРЯ
СІКОРСЬКОГО» ІНСТИТУТ ПРИКЛАДНОГО СИСТЕМНОГО
АНАЛІЗУ
Кафедра штучного інтелекту

ЗВІТ
про виконання
лабораторної
роботи № 1 з
дисципліни
**«Хмарні технології
та сервіси»**

Виконав: студент групи
КІ-22 Савченко Данііл

Перевірив:

Київ – 2025

1. Set-up account

The screenshot displays the AWS Management Console Home page. At the top, the navigation bar includes the AWS logo, a search bar, and account information for Europe (Stockholm) with account ID 7718-0519-3049. The main content area is titled "Console Home" and features several widgets:

- Recently visited:** Shows VPC and IAM services.
- Applications (0):** Displays a table for applications in the eu-north-1 region. No applications are currently listed.
- Welcome to AWS:** Provides links for getting started, training and certification, and the AWS Builder Center.
- AWS Health:** Shows the status of open issues, scheduled changes, and other notifications.
- Cost and usage:** Indicates that data is unavailable and prompts the user to turn on Cost Explorer.
- Solutions:** Offers vetted solutions for popular business and technical use cases.
- Explore AWS:** Provides a space to explore various AWS services.
- Security:** Links to the Security Hub CSPM page.
- Trusted Advisor:** Links to the Trusted Advisor page.
- Latest announcements:** Links to view all announcements.
- Recent AWS blog posts:** Links to view all blog posts.

At the bottom, there is a footer with links to CloudShell, Feedback, Console Mobile App, and copyright information for 2025.

1a. Create an IAM user and attach FullAdmin policy

Site popup blocking settings: Allow once Allow always Block always

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users**
- Roles
- Policies
- Identity providers
- Account settings
- Root access management
- Temporary delegation requests

Access reports

- Access Analyzer
- Resource analysis
- Unused access
- Analyzer settings
- Credential report
- Organization activity
- Service control policies
- Resource control policies

IAM Identity Center

AWS Organizations

User created successfully

You can view and download the user's password and email instructions for signing in to the AWS Management Console.

View user

Users (1)

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

Search

<input type="checkbox"/>	User name	Path	Group:	Last activity	MFA	Password age	Console last sign-in	Acc
<input type="checkbox"/>	Admin	/	0	-	-	Now	-	-

CloudShell Feedback Console Mobile App

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aws

Search [Alt+S]

Account ID: 7718-0519-3049

Global

Lotrex

Identity and Access Management (IAM)

Search IAM

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IAM Identity Center

AWS Organizations

Admin

Summary

ARN: arn:aws:iam::771805193049:user/Admin

Created: November 23, 2025, 10:30 (UTC+02:00)

Console access: Enabled without MFA

Last console sign-in: Never

Access key 1: Create access key

Permissions Groups Tags Security credentials Last Accessed

Permissions policies (2)

Permissions are defined by policies attached to the user directly or through groups.

Search Filter by Type

<input type="checkbox"/>	Policy name	Type	Attached via
<input type="checkbox"/>	AdministratorAccess	AWS managed - job function	Directly
<input type="checkbox"/>	IAMUserChangePassword	AWS managed	Directly

Permissions boundary (not set)

Generate policy based on CloudTrail events

You can generate a new policy based on the access activity for this user, then customize, create, and attach it to this role. AWS uses your CloudTrail events to identify the services and actions used and generate a policy. Learn more

Generate policy

No requests to generate a policy in the past 7 days.

CloudShell Feedback Console Mobile App

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3. Create one more user. Create an IAM policy that allows ONLY to view resources

aws [Search] [Alt+S] Global Account ID: 7718-0519-3049 Lotrex

Identity and Access Management (IAM) Search IAM

Dashboard

▼ Access management

- User groups
- Users**
- Roles
- Policies
- Identity providers
- Account settings
- Root access management
- Temporary delegation requests

▼ Access reports

- Access Analyzer
- Resource analysis
- Unused access
- Analyzer settings

Viewer Info Delete

Summary

ARN
arn:aws:iam::771805193049:user/Viewer

Console access
Enabled without MFA

Access key 1
Create access key

Created
November 23, 2025, 10:38 (UTC+02:00)

Last console sign-in
Never

Permissions Groups Tags Security credentials Last Accessed

Permissions policies (1) Remove Add permissions

Permissions are defined by policies attached to the user directly or through groups.

Search Filter by Type All types

Policy name	Type	Attached via
ReadOnlyAccess	AWS managed - job function	Directly

► Permissions boundary (not set)

▼ Generate policy based on CloudTrail events

You can generate a new policy based on the access activity for this user, then customize, create, and attach it to this role. AWS uses your CloudTrail events to identify the services and actions used and generate a policy. [Learn more](#)

Generate policy

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4. Create a Role that has this policy attached and can be assumed by user from p3.

Site popup blocking settings: Allow once Allow always Block always

Identity and Access Management (IAM) Search IAM

Dashboard

▼ Access management

- User groups
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- Roles**
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- Root access management
- Temporary delegation requests

▼ Access reports

- Access Analyzer
- Resource analysis
- Unused access
- Analyzer settings

View-Role Info Delete Edit

Summary

Creation date
November 23, 2025, 10:42 (UTC+02:00)

ARN
arn:aws:iam::771805193049:role/View-Role

Link to switch roles in console
<https://signin.aws.amazon.com/switchrole?roleName=View-Role&account=771805193049>

Last activity
-

Maximum session duration
1 hour

Permissions Trust relationships Tags Last Accessed Revoke sessions

Permissions policies (1) info Simulate Remove Add permissions

You can attach up to 10 managed policies.

Search Filter by Type All types

Policy name	Type	Attached entities
ReadOnlyAccess	AWS managed - job function	1

► Permissions boundary (not set)

▼ Generate policy based on CloudTrail events

You can generate a new policy based on the access activity for this role, then customize, create, and attach it to this role. AWS uses your CloudTrail events to identify the services and actions used and generate a policy. [Learn more](#)

Generate policy

No requests to generate a policy in the past 7 days.

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The image displays two screenshots of the AWS Management Console interface.

Top Screenshot: IAM User Viewer

- Navigation:** IAM > Users > Viewer
- Summary:**
 - ARN: `arn:aws:iam::771805193049:user/Viewer`
 - Created: November 23, 2025, 10:38 (UTC+02:00)
 - Console access: Enabled without MFA
 - Last console sign-in: Never
 - Access key 1: Create access key
- Permissions:**
 - Permissions policies (1): Allow-Assume-View
 - Permissions boundary (not set)
 - Generate policy based on CloudTrail events: Generate policy

Bottom Screenshot: Amazon Elastic Compute Cloud (EC2)

- Navigation:** EC2
- Header:** Compute
- Main Content:**
 - Amazon Elastic Compute Cloud (EC2)**: Create, manage, and monitor virtual servers in the cloud.
 - Benefits and features:** EC2 offers ultimate scalability and control. Fully resizable compute capacity to support virtually any workload. This service is best if you want:
 - Highest level of control of the entire technology stack, allowing full integration with all AWS services
 - Widest variety of server size options
 - Widest availability of operating systems to choose from including Linux, Windows, and macOS
 - Global scalability
- Right Sidebar:**
 - Free plan status:** Credits remaining: \$100.00 USD, Days remaining: 182 days.
 - Currently active as:** View-Role
 - Account ID:** 7718-0519-3049
 - Account color:** Access denied
 - Account:** Organization, Service Quotas, Billing and Cost Management
 - Signed in as:** Viewer
 - Account ID:** 7718-0519-3049
 - Switch back** button

5. Create a network (VPC for your resources). There should be private and public subnets. Public one has IGW, private ones are for internal access only.

[Alt+S]

Europe (Stockholm)
Account ID: 7718-0519-3049

VPC > Your VPCs

Introducing VPC encryption control

Manage and enforce encryption settings across your Virtual Private Cloud (VPC) resources. This centralized control helps ensure compliance with security policies and data protection regulations.

[Create encryption control](#)

Your VPCs (1/2) Info

Last updated 5 minutes ago [Actions](#) [Create VPC](#)

Name	VPC ID	State	Encryption c...	Encryption control ...	Block Public...	IPv4 CIDR	IPv6 CIDR
-	vpc-01926d842a7b85c56	Available	-	-	Off	172.31.0.0/16	-
Lab-my-vpc	vpc-053cc494c6d4f29bc	Available	-	-	Off	10.0.0.0/16	-

vpc-053cc494c6d4f29bc / Lab-my-vpc

Resource map Info

VPC
Your AWS virtual network

Lab-my-vpc

Subnets (2)
Subnets within this VPC
eu-north-1b
Public-Subnet
Private-Subnet

Route tables (2)
Route network traffic to resources
Public-RT
Private-RT

Network Connections (1)
Connections to other network
Lab_my_IGW

Route tables (1/3) Info

Last updated 3 minutes ago [Actions](#) [Create route table](#)

Name	Route table ID	Explicit subnet associ...	Edge associations	Main	VPC
Private-RT	rtb-03039f842a09f8a83	subnet-0980dcc9598178...	-	Yes	vpc-053cc494c6d4f29bc Lab
-	rtb-00fad247892c6c91b	-	-	Yes	vpc-01926d842a7b85c56
Public-RT	rtb-08e5d49505df464e5	subnet-013e1313ad5ba9...	-	No	vpc-053cc494c6d4f29bc Lab

rtb-08e5d49505df464e5 / Public-RT

Details

Routes

Subnet associations

Edge associations

Route propagation

Tags

Routes (2)

Both Edit routes

Destination	Target	Status	Propagated	Route Origin
0.0.0.0/0	igw-0958839b8537336bd	Active	No	Create Route
10.0.0.0/16	local	Active	No	Create Route Table

8. Calculate monthly budget for lab 2, assuming there will be only 2 shards.



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