

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



ФАКУЛЬТЕТ ІНФОРМАЦІЙНИХ ТЕХНОЛОГІЙ

ЗВІТ

про виконання практичної роботи №5

**з дисципліни
«АПЗ»**

Виконав:

студент групи 124-22-2

Молчанов Максим

Перевірив:

ас. Шевченко Ю.О.

Дніпро

2025

ПРАКТИЧНА РОБОТА №5

Тема: Знайомство з EC2

Мета: набуття базових навичок взаємодії із сервісами AWS у вигляді EC2, налаштування та відкриття доступу до підключення до віддаленого робочого столу по IP.

Створення нового EC2

aws

Search

[Alt+S]

Europe (Stockholm)

Account ID: 3755-2013-4849

maximmolchanov

EC2

Dashboard

AWS Global View

Events

Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations
- Capacity Manager

Images

- AMIs
- AMI Catalog

Elastic Block Store

- Volumes
- Snapshots
- Lifecycle Manager

Network & Security

- Security Groups
- Elastic IPs
- Placement Groups
- Key Pairs
- Network Interfaces

Resources

You are using the following Amazon EC2 resources in the Europe (Stockholm) Region:

Instances (running)	0	Auto Scaling Groups	0
Capacity Reservations	0	Dedicated Hosts	0
Elastic IPs	0	Instances	0
Key pairs	0	Load balancers	0
Placement groups	0	Security groups	1
Snapshots	0	Volumes	0

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance

Migrate a server

Note: Your instances will launch in the Europe (Stockholm) Region

Instance alarms

View in CloudWatch

0 in alarm 0 OK 0 insufficient data

Service health

AWS Health Dashboard

Region

Europe (Stockholm)

Status

This service is operating normally.

Zones

Zone name	Zone ID
eu-north-1a	eun1-az1
eu-north-1b	eun1-az2
eu-north-1c	eun1-az3

Name and tags [Info](#)

Name

MyPCMolchanov


[Add additional tags](#)

▼ Application and OS Images (Amazon Machine Image) [Info](#)


An AMI contains the operating system, application server, and applications for your instance. If you don't see a suitable AMI below, use the search field or choose **Browse more AMIs**.

 Search our full catalog including 1000s of application and OS images


Quick Start




Amazon Linux




macOS




Ubuntu




Windows




Red Hat



SUSE Linux



Debian



[Browse more AMIs](#)

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Microsoft Windows Server 2025 Base

ami-010e40c6557403885 (64-bit (x86))

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description

▼ Instance type [Info](#) | [Get advice](#)

Instance type

m7i-flex.large

Free tier eligible

Family: m7i-flex 2 vCPU 8 GiB Memory Current generation: true
On-Demand Linux base pricing: 0.10175 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.10525 USD per Hour
On-Demand RHEL base pricing: 0.13055 USD per Hour
On-Demand Windows base pricing: 0.18915 USD per Hour
On-Demand SUSE base pricing: 0.15805 USD per Hour

☐ All generations

[Compare instance types](#)

[Additional costs apply for AMIs with pre-installed software](#)

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

PCkey



[Create new key pair](#)

For Windows instances, you use a key pair to decrypt the administrator password. You then use the decrypted password to connect to your instance.

▼ Network settings [Info](#)

Edit

Network [Info](#)

vpc-09d533b53b300b180

Subnet [Info](#)

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)

Enable

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group

Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

☒ Allow RDP traffic from

Helps you connect to your instance

Anywhere
0.0.0.0/0

☐ Allow HTTPS traffic from the internet

To set up an endpoint, for example when creating a web server

☐ Allow HTTP traffic from the internet

To set up an endpoint, for example when creating a web server

⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

×

▼ Configure storage [Info](#)

Advanced

1x 30 GiB gp3

Root volume, 3000 IOPS, Not encrypted

⌵ Launching instance

Launch initiation

80%

► Details

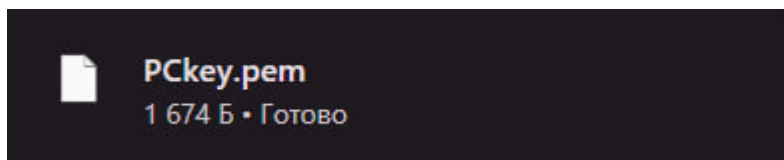
Please wait while we launch your instance.
Do not close your browser while this is loading.

✓ Success

Successfully initiated launch of instance [\(i-077d105edaca301dd\)](#)

► Launch log

Створення ключа доступу



Підключення створеного ключа

Get Windows password [Info](#)

Use your private key to retrieve and decrypt the initial Windows administrator password for this instance.

Instance ID
 i-077d105edaca301dd (MyPCMolchanov)

Key pair associated with this instance
 PCkey

Private key
Either upload your private key file or copy and paste its contents into the field below.

Upload private key file

PCkey.pem

1.67 KB

Private key contents

```
-----BEGIN RSA PRIVATE KEY-----
MIIeOwlBAAKCAQEAsIQJSMlqKarwztMdfPIMUIJOptjKJrlpS01laal2PirZ2iXg
cMMvB0/Wd0vm3IKdOTj0sVFDm3RsHyhQ34UcS6VKPY+1FwolVNH1Kz13KmdqiL7
iDBDQ527AOj/UDI0nCzp3x0au3uq4pLyVC7Ef5xe60yLum0c1EsbS5JgYnQoE5xu
Auo2uqHsDml8rdvnDDto5nSd1pB20NAsEM6Rs88duyyOjKQ+UcxRO5zhkHPp9DxX
WS3vHF5zj7Gw2ynGVK/ILPMValZBRyggT/xibWn4Q5dj0S8eKCPVEjRu49k7Atj2
p6R68XUhr8zJQ8NWTRa0u9dN3owR6DUGLriVgwIDAQABAolBAAOysHMa7SN0Vlku
6RQQQhvjRxp3/Lw09DTEqVQ+Nr60rR2532rdW/XeQVL8fxitj9esDsxMNItkNAOv

```

[Cancel](#) [Decrypt password](#)

Отримання інформації про машину

Get Windows password


Connect to your Windows instance using Remote Desktop with this information.

Instance ID
 i-077d105edaca301dd (MyPCMolchanov)

Private IP address
 172.31.26.218

Username
 Administrator

Віддалений робочий стіл

 Выполнить ✕



Введите имя программы, папки, документа или ресурса Интернета, которые требуется открыть.

Открыть:



Это задание будет создано с правами

ОК

Отмена

Обзор...



Подключение к удаленному рабочему столу



Подключение к удаленному рабочему столу

Компьютер:

Пользователь:

Не задано

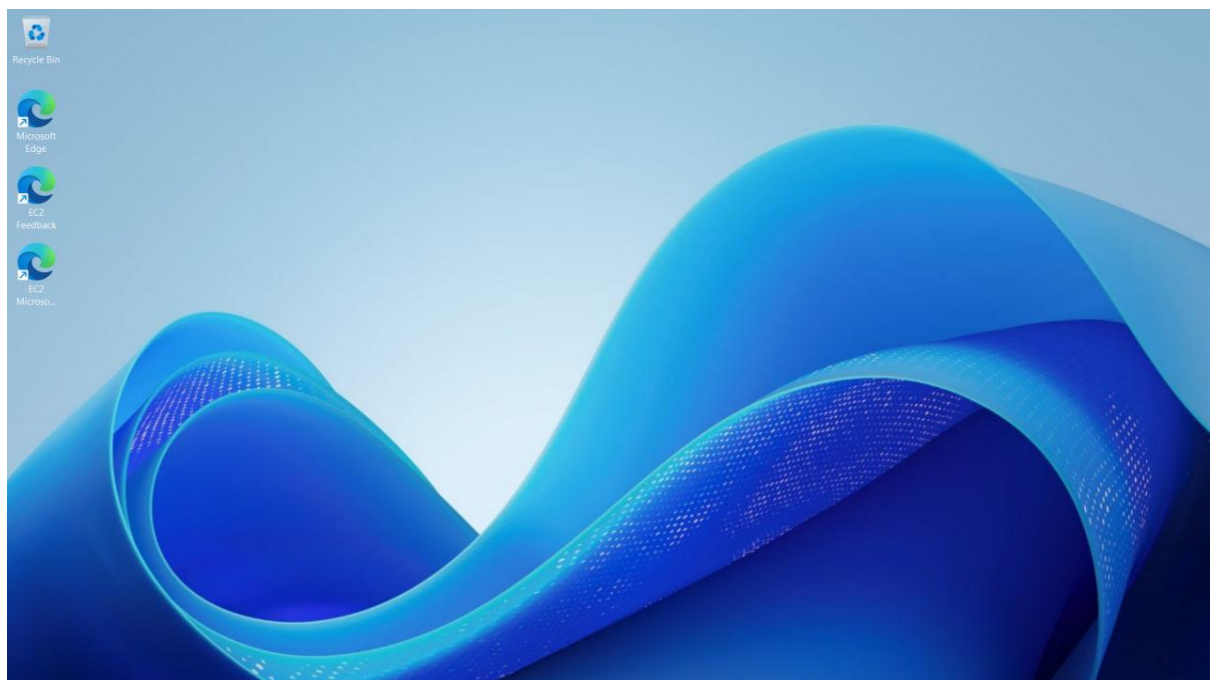
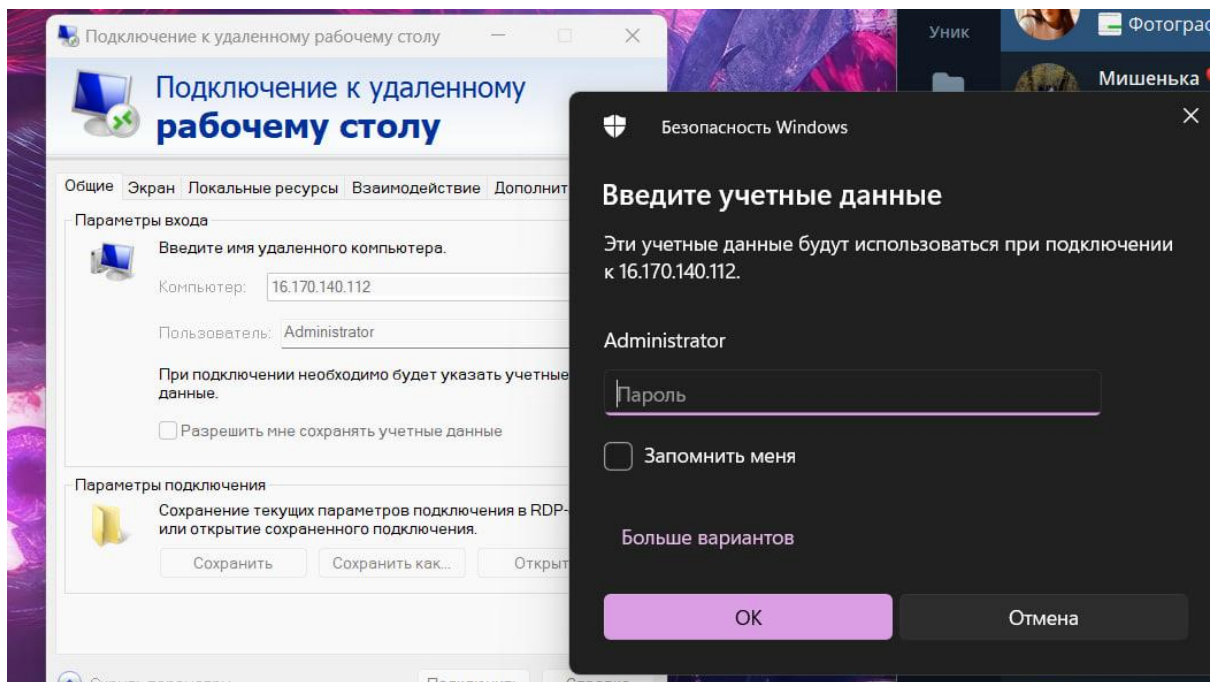
Поле имени компьютера не заполнено. Введите полное имя удаленного компьютера.

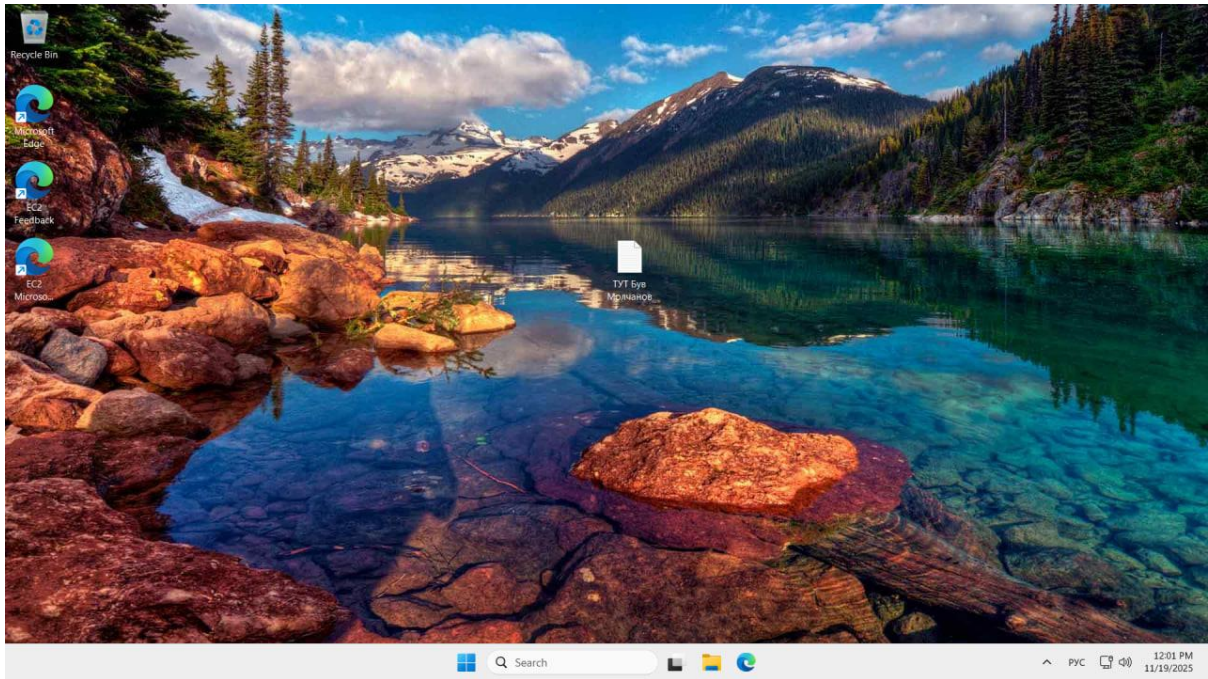


Показать параметры

Подключить

Справка





Інформація

Connect to your Windows instance using Remote Desktop with this information.

Instance ID

i-077d105edaca301dd (MyPCMolchanov)

Private IP address

172.31.26.218

Username

Administrator

Password

R5pYkQb0VyqYz?EP0cmR0Y4.Y4Sa)mIv

IP address (публічний)

16.170.140.112