

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



ФАКУЛЬТЕТ ІНФОРМАЦІЙНИХ ТЕХНОЛОГІЙ

**ЗВІТ**

**про виконання практичної роботи №5**

**з дисципліни  
«АПЗ»**

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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] | [ ] | [ ] | [ ] | [ ] | [ ] | Account ID: 3755-2013-4849 | Europe (Stockholm) | 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 **New**

**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

**Service health**  
**AWS Health Dashboard** ↗ **C**  
**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

[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](#).

### Quick Start

[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  
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

[Free tier eligible](#) 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

[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

▼

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.

[X](#)

## ▼ Configure storage Info

[Advanced](#)

1x

30

GiB

gp3

▼

Root volume, 3000 IOPS, Not encrypted

**C** Launching instance  
Launch initiation

80%

► Details

Please wait while we launch your instance.

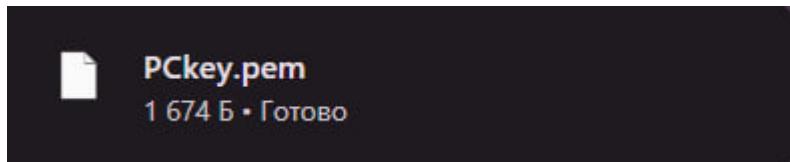
Do not close your browser while this is loading.

**✓ 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.

PCkey.pem

X

1.67 KB

Private key contents

```
-----BEGIN RSA PRIVATE KEY-----
MIIeowlBAAKCAQEAslQJSMLqKarwztMdFPIMUIJOPtjKJrlpS01laal2PirZ2iXg
cMMvB0/Wd0vm3IKdOTj0sVFDm3RsHyhQ34UcS6VP6Y+1FwoVNH1Kz13KmdqiL7
iDBDQ527AOj/UDI0nCzp3x0au3uq4pLyVC7Ef5xe60yLUm0c1EsbS5JgYnQoE5xu
Auo2uqHsDml8rdvnDDto5nSd1pB20NAsEM6Rs88duyyOjKQ+UcxRO5zhkHPp9DxX
WS3vHF5zj7Gw2ynGVK/iLPMValZBRyggT/xibWn4QSdjOS8eKCPVEjRu49k7Atj2
p6R68XUHr8zJQ8NWTRa0u9dN3owR6DUGLriVgwIDAQABAoIBAAOysHMa7SN0Vlku
6RQQQhvJrxP3/Lw09DTEqVQ+Nr60rR2532rdW/XeQVL8fxitj9esDsxMNltkNAOv
```

[Cancel](#)

[Decrypt password](#)

## Отримання інформації про машину

### Get Windows password

X

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

**Instance ID**

i-077d105edaca301dd (MyPCMolchanov)

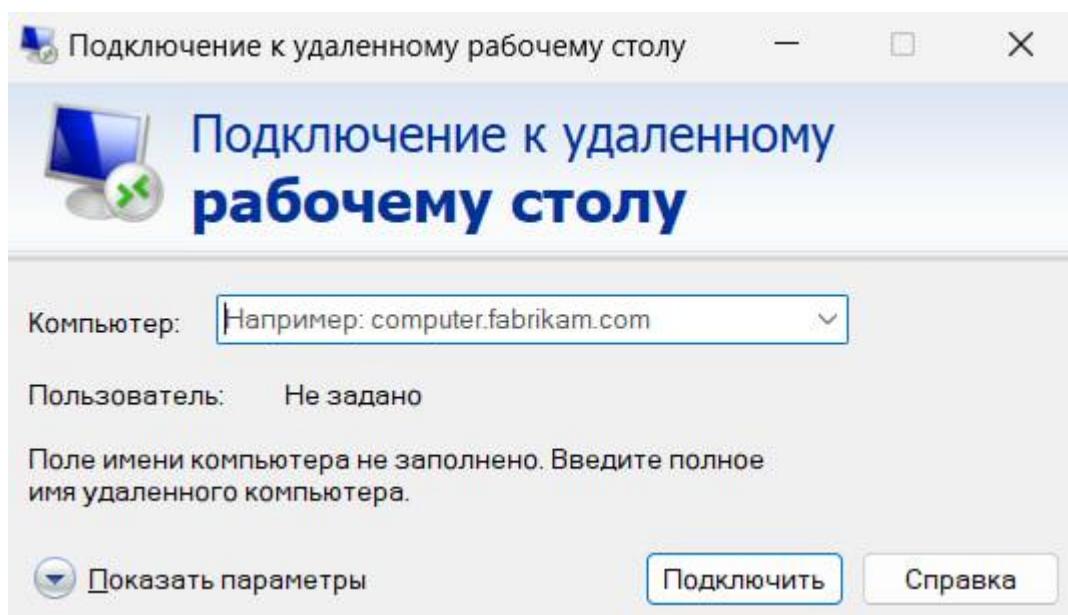
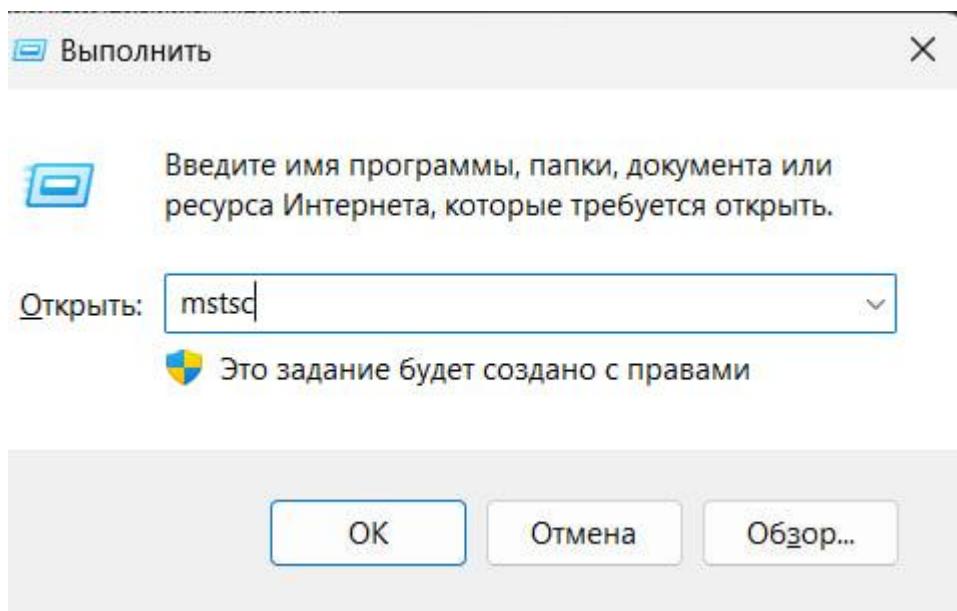
**Private IP address**

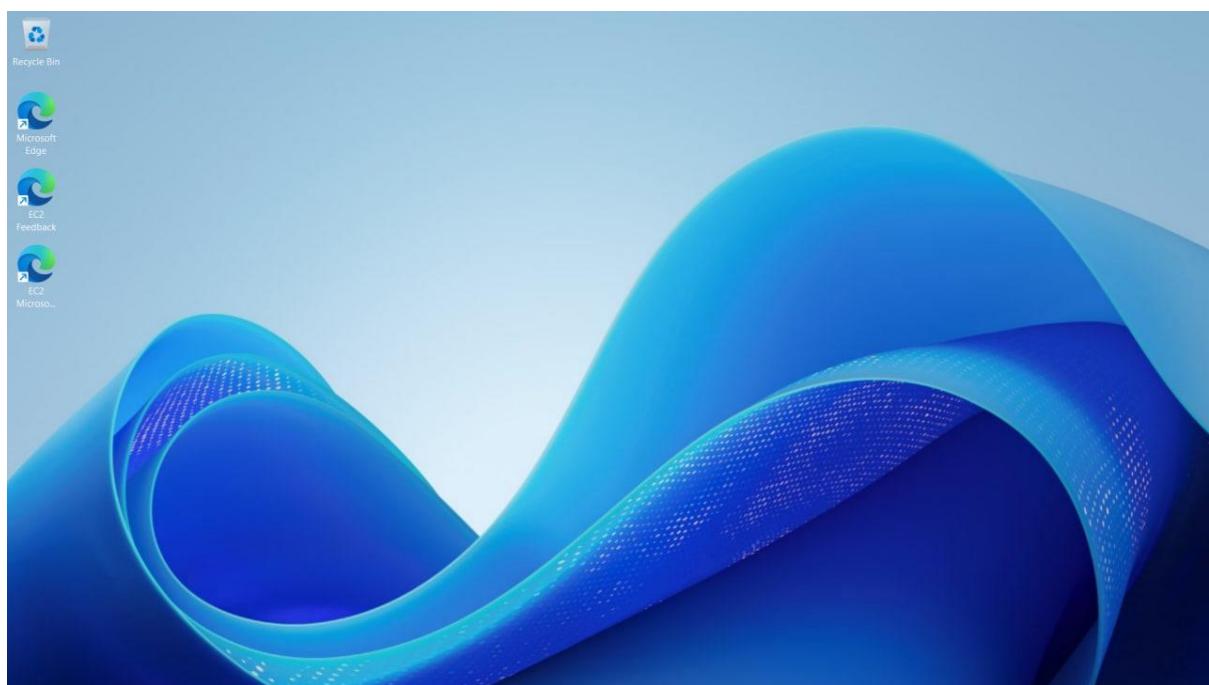
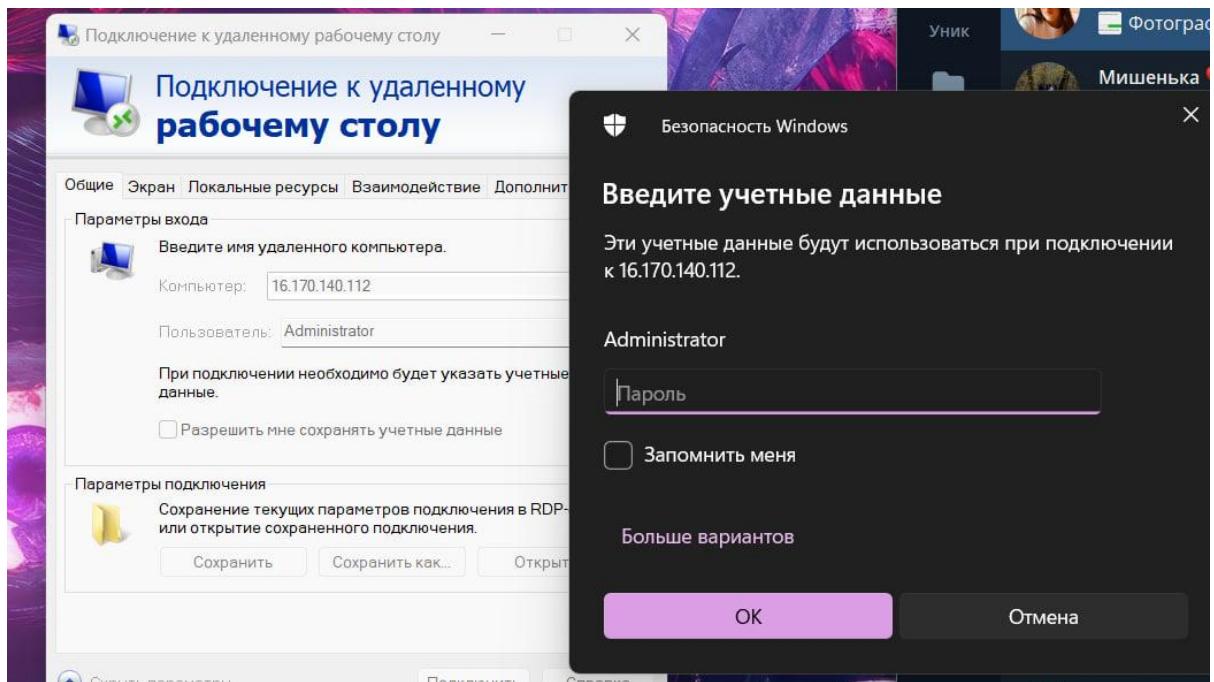
172.31.26.218

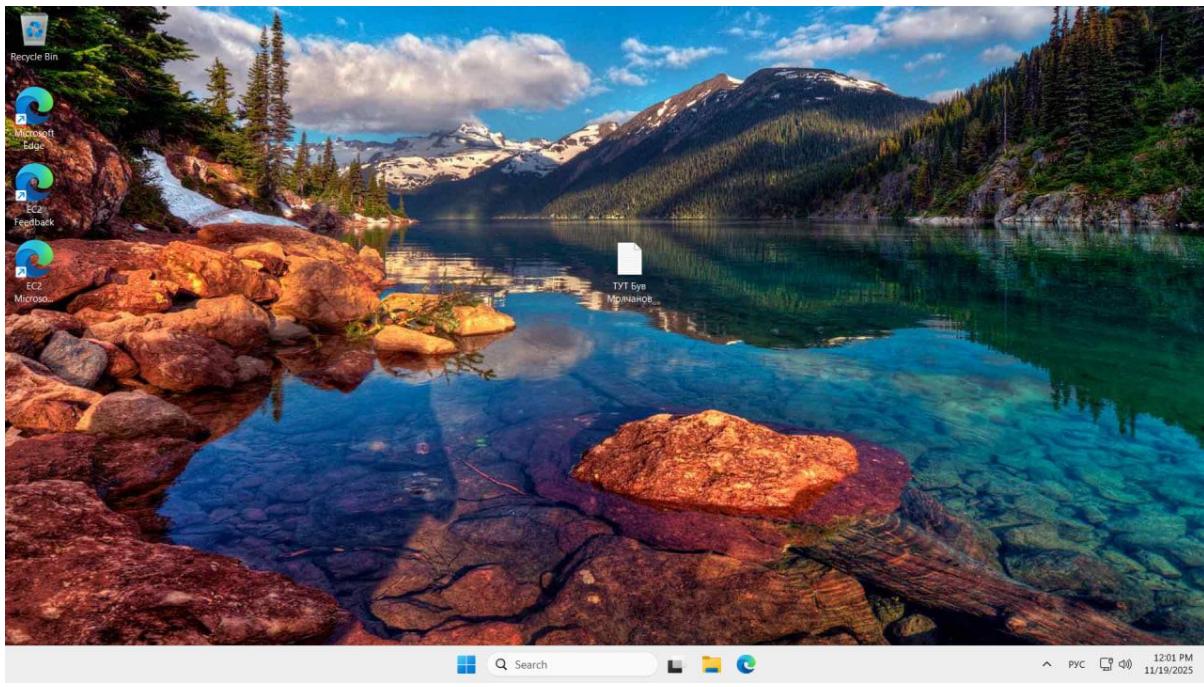
**Username**

Administrator

Віддалений робочий стіл







## 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