

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



Національний
технічний університет
ДНІПРОВСЬКА
ПОЛІТЕХНІКА
1899



ФАКУЛЬТЕТ ІНФОРМАЦІЙНИХ ТЕХНОЛОГІЙ
Кафедра системного аналізу та управління

Лабораторна робота № 5

з дисципліни
«Аналіз програмного забезпечення»

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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.

1. Створення нового EC2

The screenshot shows the AWS EC2 console interface. On the left, there's a sidebar with 'Resources' and 'Launch instance' sections. The main area has 'Service health', 'Zones', and 'Scheduled events'. On the right, there are sections for 'EC2 cost', 'Account attributes', and 'Explore AWS'. A large central window shows the 'Create New Instance' wizard, step 1: 'Select AMI'. It lists various AMIs, including 'Microsoft Windows Server 2025 Base' and 'Ubuntu 22.04 LTS (HVM, SSD Volume Type)'. The 'Next Step' button is visible at the bottom right.

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

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

EC2 cost
Date range: Past 6 months Region: Global
Costs in your free tier account are covered by credits.
Credits remaining: \$100 USD Days remaining: 181 (May 22, 2024)
Unable to load
Analyze your costs in Cost Explorer [\[\]](#)

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 Metrics](#)
0 alarm [OK](#) [Insufficient data](#)
Instances in alarm

Scheduled events
Europe (Stockholm)
No scheduled events

Service health
Region: Europe (Stockholm)
Status: This service is operating normally.
[AWS Health Dashboard \[\]](#)

Zones
Zone name Zone ID
eu-north-1a eu-n1-az1
eu-north-1b eu-n1-az2
eu-north-1c eu-n1-az3
[Enable additional Zones \[\]](#)

Account attributes
Default VPC [\[\]](#)
vpc-00d09b43497e0ea2
Settings
Data protection and security
Allowed AMIs
Zones [\[\]](#)
EC2 Serial Console
Default credit specification
EC2 console preferences

Explore AWS
Save up to 90% on EC2 with Spot Instances
Optimize price-performance by combining EC2 purchase options in a single EC2 ASG. [Learn more \[\]](#)

Name and tags
Name: MyPCHorizonuk [Add additional tags](#)

Application and OS Images (Amazon Machine Image)
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

Amazon Machine Image (AMI)
Microsoft Windows Server 2025 Base [Free tier eligible](#)
ami-019e0d377f0380136-1a1-1888
Virtualization: HVM CPU architecture: Intel(R) Xeon(R) CPU Family 6000
[View details](#)

Summary
Number of instances: 1
Software image (AMI): Microsoft Windows Server 2025 Base [Read more \[\]](#)
Virtual server type (instance type): m7i.4xlarge
Firewall (security group): New security group
Storage (volume): 1 volume(s) - 30 GB
[Launch instance](#) [Preview code](#)

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

Instance type

m7s-flex-large	Free tier eligible
Standard: 2 vCPU 8 GiB Memory Current generation: true	
On-Demand Linux base pricing: 0.01716 USD per Hour On-Demand Ubuntu Pro base pricing: 0.01629 USD per Hour	
On-Demand RHEL base pricing: 0.01634 USD per Hour On-Demand Windows base pricing: 0.08911 USD per Hour	
On-Demand SUSE base pricing: 0.01605 USD per Hour	

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

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

[Create new key pair](#)

All generations

[Compare instance types](#)

Software Image (AMI)
Microsoft Windows Server 2025 ... [read more](#)
ami-01fa40ca0127403388

Virtual server type (instance type)
m7s-flex-large

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 30 GiB

[Cancel](#) [Launch instance](#) [Preview code](#)

Success
Successfully initiated launch of instance ([i-0bf49673375e17ca0](#))

2. Створення ключа доступу

 ~\$рценюк_124-22-2_АПЗ№5.docx	C6 22.11.25 21:22	Документ Microsoft Word	1 КБ
 pckey.pem	C6 22.11.25 21:32	Файл PEM	2 КБ
 Марценюк_124-22-2_АПЗ№5.docx	C6 22.11.25 21:22	Документ Microsoft Word	0 КБ

3. Підключення створеного ключа

[Get Windows password](#)

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

Instance ID
[i-0bf49673375e17ca0](#) (MyPCHartsenuk)

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](#)

`pkkey.ppk`

Private key contents

```
-----BEGIN RSA PRIVATE KEY-----
MIIEowIBAAKCAQDAnwCAnQ5kXQJ70LqRHPHyMP60OMQ5n3jhu4WuOz5fRtLx
wppL1Z2AKGFLtJw8Lc5yLJw0H45Ctg04ufk5LJMHuNg6n7wp+5bgi+k
J1fM8-HlswptACp01p45cRf7-4kaQJUdavvMaEB3#Hg3UJTWk3QKkiknD
lfPwodnfI47NuB23neBHCtuQFQJNvz2wLJLMYiUZzGCFBHNqQH
d1hPFT24iLV3jw5DnreMsfrmgC19wjqhdDeQJTwylQXoI/EfT700G2AHP
kJLysf/YH02TCnJrVgfu8f8fTTfLJdyQDwIDHQMaBfME+csbkX10C9Vw
mhsK1YwHo/RPzxaRylyFvA4r5/13ckHfQDFlwA&YH02SMWCHQHbKXVb/P52P
-----END RSA PRIVATE KEY-----
```

4. Отримання інформації про машину

Get Windows password X

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

Instance ID
 i-0bf49673375e17ca0 (MyPCMartseniuk)

Private IP address
 172.31.43.49

Username
 Administrator

Password
 cly(kl*Z9s9El&%esvW0\$5ukOR\$rSdE

i **Password change recommended**
We recommend that you change your default password. Note: If a default password is changed, it cannot be retrieved using this tool. It is important that you change your password to one that you will remember.

Cancel OK

 Підключення до віддаленого робочого стола — □ X

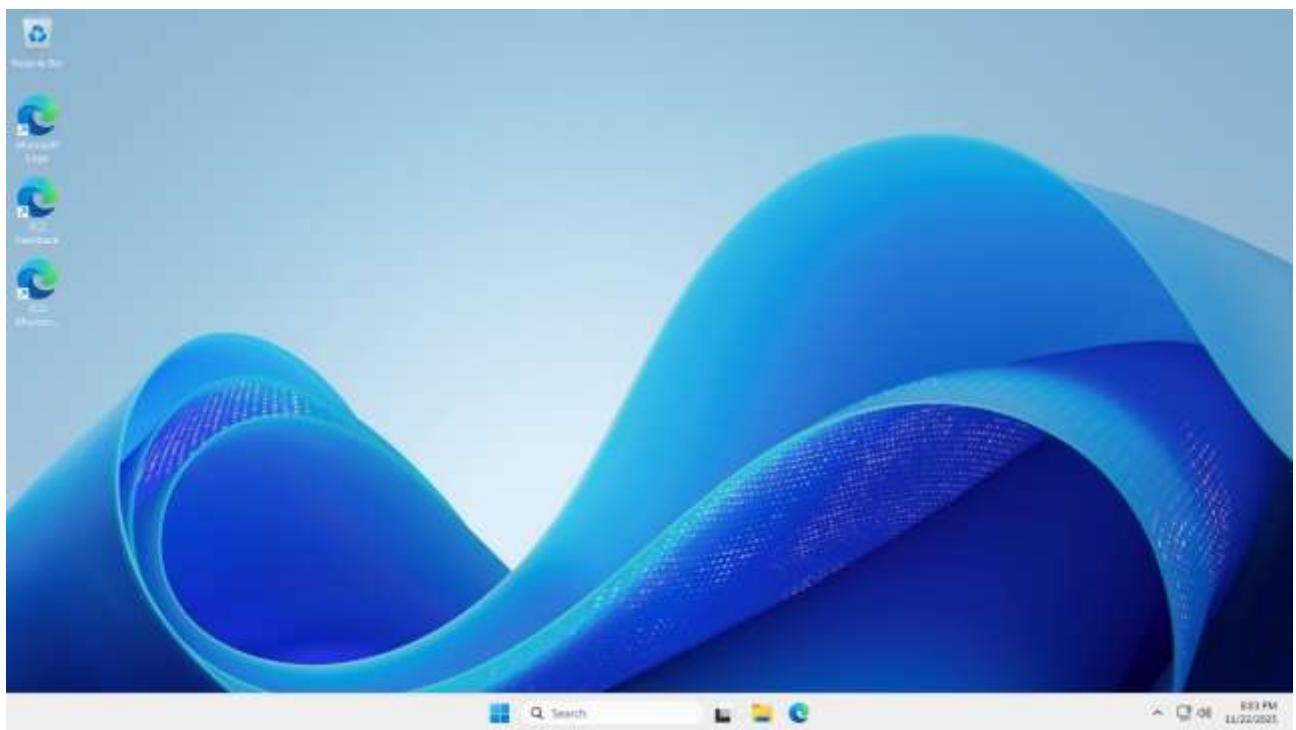
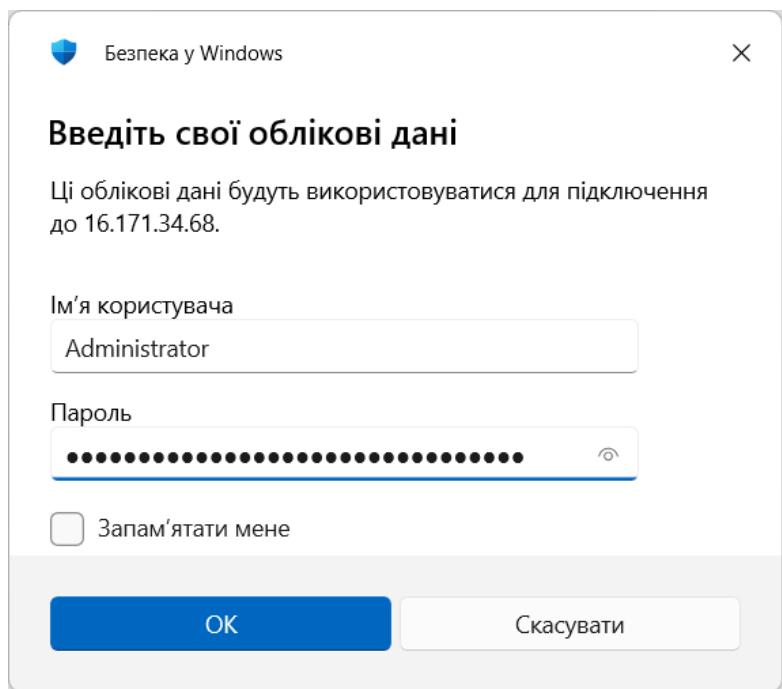
 **Підключення до віддаленого
робочого стола**

Комп'ютер:

Ім'я користувача:

Під час підключення буде здійснено запит ваших облікових
даних.

Показати параметри Підключитися Довідка





Public IP	16.171.34.68
Private IP	172.31.43.49
Username	Administrator
Instance ID	i-0bf49673375e17ca0
Password	cIy(kI*Z9s9EId&%esvW0\$5ukOR\$rSdE