

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



ФАКУЛЬТЕТ ІНФОРМАЦІЙНИХ ТЕХНОЛОГІЙ
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Практична робота №5
з дисципліни
«Аналіз програмного забезпечення»

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Дніпро
2025

Практична робота №5

AWS EC2

Мета роботи: набування навичок створення та розміщення віртуального сервера за допомогою AWS EC2.

Administrator

x8u-d5%d.KOKZFWOp15as9LJX\$RzxznC

The screenshot shows the AWS EC2 'Launch an instance' wizard. The 'Quick Start' tab is selected. On the left, there's a grid of recent AMIs: Amazon Linux, macOS, Ubuntu, Windows, Red Hat, SUSE Linux, and Debian. Below this is a section for 'Amazon Machine Image (AMI)' with a dropdown menu showing 'Amazon Linux 2023 kernel-6.1 AMI'. The dropdown details are: ami-0f50f13aefb6c0a5d (64-bit (x86), uefi-preferred) / ami-03abaf7d595ac476 (64-bit (Arm), uefi). It also lists 'Virtualization: hvm', 'ENI enabled: true', and 'Root device type: ebs'. To the right of the AMI selection is a 'Summary' section with a table:

Summary	
Number of instances	1
Software Image (AMI)	Amazon Linux 2023 AMI 2023.9.2... read more
Virtual server type (instance type)	t3.micro
Firewall (security group)	New security group
Storage (volumes)	1 volume(s) - 8 GiB

At the bottom of the summary section are 'Cancel' and 'Launch instance' buttons. The 'Launch instance' button is highlighted in orange. Below the summary is another section titled 'Instance type' with a 'Get advice' link. The browser's address bar shows 'eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#LaunchInstances:'.

Screenshot of the AWS EC2 'Launch an instance' wizard, step 3: 'Create key pair'.

Create key pair

Key pair name: apz-my-key
 Key pairs allow you to connect to your instance securely.
 apz-my-key **Key pair already exists.**
 The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type:
 RSA RSA encrypted private and public key pair
 ED25519 ED25519 encrypted private and public key pair

Private key file format:
 .pem For use with OpenSSH
 .ppk For use with PuTTY

When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Create key pair

Screenshot of the AWS EC2 Instances page, showing a single running instance.

Instances (1/1)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4
APZ-Fokin	i-08c849e5b524592dc	Running	m7i-flex.large	3/3 checks passed	View alarms +	eu-north-1b	ec2-13-60-252-81.eu-north-1.compute.amazonaws.com

i-08c849e5b524592dc (APZ-Fokin)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary

Instance ID i-08c849e5b524592dc	Public IPv4 address 13.60.252.81 open address	Private IPv4 addresses 172.31.34.177
IPv6 address -	Instance state Running	Public DNS ec2-13-60-252-81.eu-north-1.compute.amazonaws.com open address

Screenshot of the AWS Cloud Computing Service (Cloud9) interface showing the EC2 Instances details for an instance named "APZ-Fokin".

Instance summary for i-08c849e5b524592dc (APZ-Fokin)

- Public IPv4 address:** 13.60.252.81 | [open address](#)
- Private IP DNS name (IPv4 only):** ip-172-31-34-177.eu-north-1.compute.internal
- Instance type:** m7i-flexlarge
- VPC ID:** vpc-0d57dbfb9982d3a9d
- Subnet ID:** subnet-09d4e93e12499fdb0
- Instance ARN:** arn:aws:ec2:eu-north-1:521037246940:instance/i-08c849e5b524592dc

Actions: Connect, Instance state, Actions

CloudShell Feedback Console Mobile App

Get Windows password

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

Instance ID: i-08c849e5b524592dc (APZ-Fokin)

Key pair associated with this instance: apz-my-key

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

Upload private key file: apz-my-key.pem (1.67 KB)

Private key contents:

```
-----BEGIN RSA PRIVATE KEY-----
MIIEogIBAAKCAQEAkQw9RG3VPGem7AcrkJgzuRITXpbOs26Ma2CeUr8UWUEiwJeZ
sbVrjefuYhTkC4l0y/FW2r+0DCATPfQtS5KZL+lrAlv5+PtNzXNE/zb2N9z7G
wb0Xae1hnC6pB5yJSmyVy+yhwSkW2MZXHfVD/1DcvQLny29ghJzQfgT4tTJE
TjUduk1+07aBNazmp/gyYeoJHFcq7wDTq59BkWYnL7NL6579TEUDPpRQDQb+
Nv/K9KqWCBaCSo/qP2OXAeurutnPHhGsUGfbL/eqFjd/jE8CN183as012m
JzTzVQFgkS63+hk2+f2p+n5Nwu+qlqLx57Jw/NwIDAQABAoIBANltP2oUOIE5D22
AWU2m2eHd1Ns1SPD0zoI2zGuvRIOUcnhdsk8U7mVsY8V15ZatloNMwMhHkNED4
```

Buttons: Cancel, Decrypt password

Get Windows password



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

Instance ID

i-08c849e5b524592dc (APZ-Fokin)

Private IP address

172.31.34.177

Username

Administrator

Password

x8u-d5%d.KOKZFWOp15as9LJX\$RzxznC

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

