

**Міністерство освіти і науки України
Національний технічний університет
«Дніпровська політехніка»**



ЗВІТ
про виконання лабораторної роботи № 5

з дисципліни
«Аналіз програмного забезпечення»

тема роботи:
AWS EC2

Виконав(ла): ст. гр. 121-22-3
Какоткін Микита Андрійович

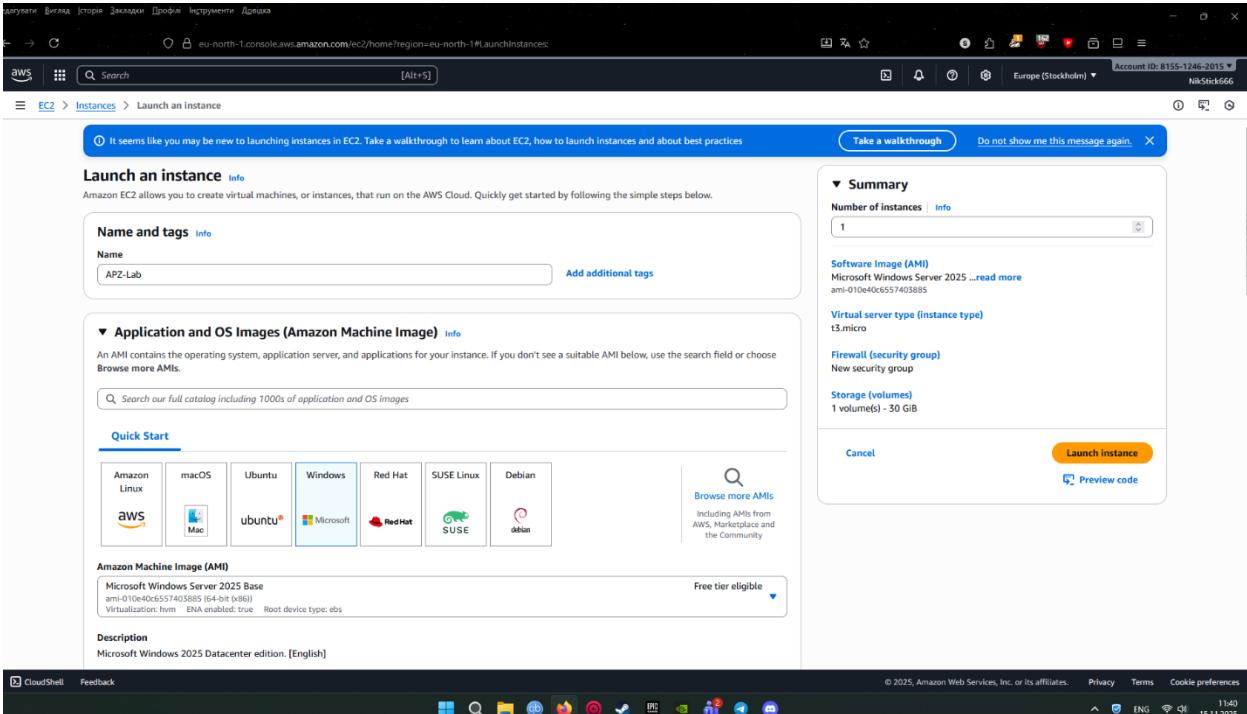
Прийняв (ла): Шевченко Ю.О.

**Дніпро
2025**

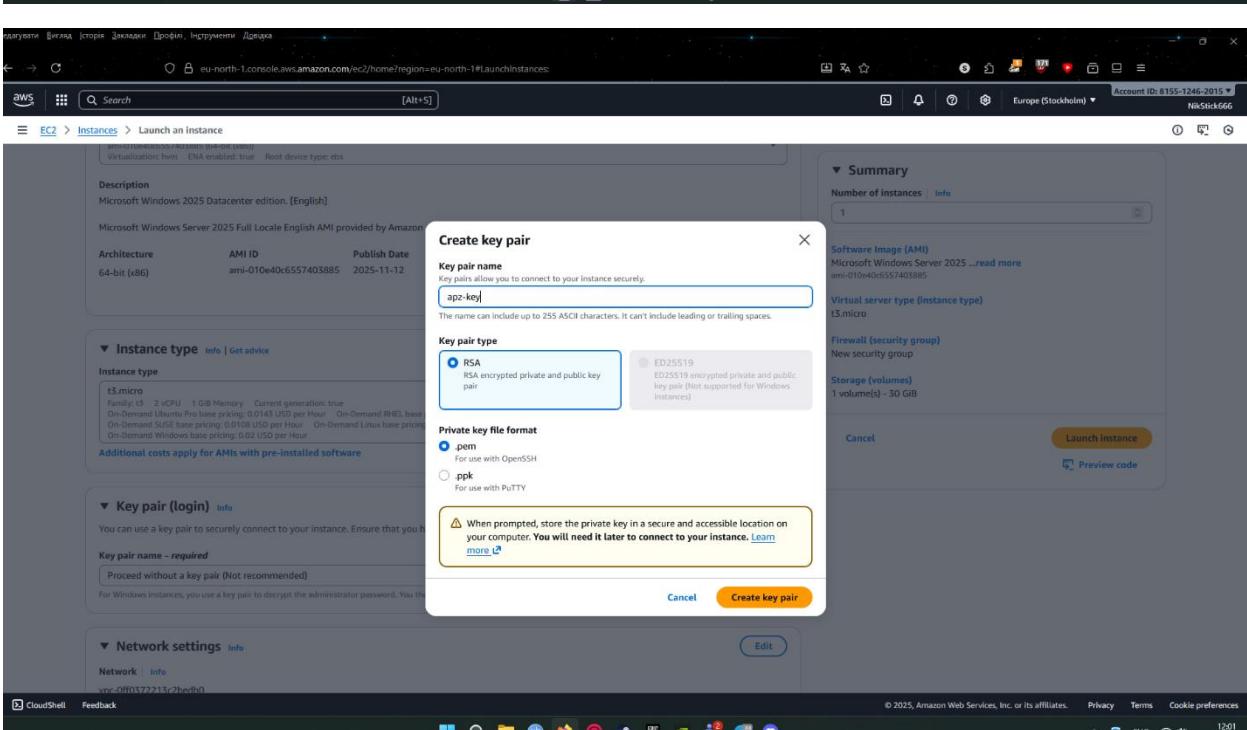
Тема: AWS EC2

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

Хід роботи



The screenshot shows the 'Launch an instance' wizard. In the 'Name and tags' step, the name 'APZ-Lab' is entered. In the 'Application and OS Images (Amazon Machine Image)' step, the 'Windows' section is selected, showing the 'Microsoft Windows Server 2025 Base' AMI. The 'Virtual server type (instance type)' is set to 't3.micro'. The 'Summary' step shows one instance being launched with the selected AMI and instance type.



The screenshot shows the 'Create key pair' dialog box. A key pair named 'apz-key1' is being created. The 'Key pair type' is set to 'RSA'. The 'Private key file format' is set to 'pem'. A note at the bottom of the dialog box states: '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.' The 'Create key pair' button is visible at the bottom right of the dialog.

The screenshot shows the AWS EC2 Instances launch log page. At the top, there's a green success message: "Successfully initiated launch of instance i-00000000000000000". Below this, a "Launch log" section is visible. The main content area is titled "Next Steps" and contains several cards:

- Create billing usage alerts**: To manage costs and avoid surprise bills, set up email notifications for billing usage thresholds. Includes a "Create billing alerts" button.
- Connect to your instance**: Once your instance is running, log into it from your local computer. Includes a "Connect to instance" button and a "Learn more" link.
- Connect an RDS database**: Configure the connection between an EC2 instance and a database to allow traffic flow between them. Includes a "Connect an RDS database" button and a "Create a new RDS database" link.
- Create EBS snapshot policy**: Create a policy that automates the creation, retention, and deletion of EBS snapshots. Includes a "Create EBS snapshot policy" button.
- Manage detailed monitoring**: Enable or disable detailed monitoring for the instance. If you enable detailed monitoring, the Amazon EC2 console displays monitoring graphs with a 1-minute period. Includes a "Manage detailed monitoring" button.
- Create Load Balancer**: Create a application, network gateway or classic Elastic Load Balancer. Includes a "Create Load Balancer" button.
- Create AWS budget**: AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a single location. Includes a "Create AWS budget" button.
- Manage CloudWatch alarms**: Create or update Amazon CloudWatch alarms for the instance. Includes a "Manage CloudWatch alarms" button.
- Disaster recovery for your instances**: Recover the instances you just launched into a different Availability Zone or a different Region using AWS Elastic Disaster Recovery (DRS). Includes a "Disaster recovery for your instances" button.
- Monitor for suspicious runtime activities**: Amazon GuardDuty enables you to continuously monitor for malicious runtime activity and unauthorized behavior, with near real-time visibility into on-host activities occurring across your Amazon EC2 workloads.
- Get instance screenshot**: Capture a screenshot from the instance and view it as an image. This is useful for troubleshooting an unresponsive instance. Includes a "Get instance screenshot" button.
- Get system log**: View the instance's system log to troubleshoot issues. Includes a "Get system log" button.

At the bottom, there are links for "CloudShell", "Feedback", and "Cookie preferences". The footer includes copyright information for 2025 and links for "Privacy", "Terms", and "Cookie preferences".

The screenshot shows the AWS EC2 Connect interface for connecting to an instance. At the top, there's a navigation bar with 'Search' and 'EC2 > Instances'. The main title is 'Connect to instance'. Below it, there are three tabs: 'Session Manager', 'RDP client' (which is selected), and 'EC2 serial console'. A prominent blue box contains the message: 'Record RDP connections. You can now record RDP connections using AWS Systems Manager just-in-time node access. [Learn more](#)'. To the right of this box is a 'Try for free' button. Below this, the 'Instance ID' is listed as 'apz-lab'. Under 'Connection Type', the 'Connect using RDP client' option is selected. A tooltip for this option provides instructions: 'Download a file to use with your RDP client and retrieve your password.' It also includes a link to 'Working with SSM Agent'. Another tooltip for 'Connect using Fleet Manager' is visible, stating: 'To connect to the instance using Fleet Manager Remote Desktop, the SSM Agent must be installed and running on the instance. For more information, see [Working with SSM Agent](#)'. On the left, there's a warning message in Russian: 'Не удалось соединиться с вашим удаленным рабочим столом. Уточните, пожалуйста, настройки?' (Connection to your remote desktop failed. Please check the settings?). This message has a yellow background and a red exclamation mark icon. On the right, there's a 'Username Info' dropdown set to 'Administrator'. At the bottom, there's a note: 'If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.'



