

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



ФАКУЛЬТЕТ ІНФОРМАЦІЙНИХ ТЕХНОЛОГІЙ
Кафедра системного аналізу та управління

Лабораторна робота 5
з дисципліни
«Аналіз програмного забезпечення»

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Дніпро
2025

Лабораторна робота 5

AWS EC2

Мета: набуття навичок у створенні і підключенні до віддаленого комп'ютера за допомогою AWS EC2.

Налаштування та створення віддаленого комп'ютера:

The screenshot displays the AWS Management Console interface. The top navigation bar shows the user is logged in as 'Kyrylo%20Nebatov' in the 'Europe (Stockholm)' region. The left sidebar contains the 'EC2' menu with options like 'Dashboard', 'Instances', 'Images', and 'Elastic Block Store'. The main content area is divided into several sections:

- Resources:** A table showing the number of EC2 resources in the 'Europe (Stockholm)' region. It includes categories like Instances (running), Auto Scaling Groups, Capacity Reservations, Dedicated Hosts, Elastic IPs, Instances, Key pairs, Load balancers, Placement groups, Security groups, Snapshots, and Volumes.
- Launch instance:** A section with a 'Launch instance' button and a 'Migrate a server' button. It includes a note: 'Note: Your instances will launch in the Europe (Stockholm) Region'.
- Service health:** A section showing the 'AWS Health Dashboard' and the status of the 'Region: Europe (Stockholm)'. It indicates that the service is operating normally.
- EC2 cost:** A section showing the 'Date range: Past 6 months' and 'Region: Global'. It displays 'Credits remaining: \$100 USD' and 'Days remaining: 165 (May 3, 2026)'. It also includes a link to 'Analyze your costs in Cost Explorer'.
- Account attributes:** A section showing the 'Default VPC' and 'Settings'.

Below the main content area, there is a 'Launch an instance' wizard. The first step is 'Application and OS Images (Amazon Machine Image)'. It shows a search bar and a 'Quick Start' section with various operating system options: Amazon Linux, macOS, Ubuntu, Windows, Red Hat, SUSE Linux, and Debian. The 'Windows' option is selected. Below this, the 'Amazon Machine Image (AMI)' section shows the 'Microsoft Windows Server 2025 Base' AMI. It includes a description: 'Microsoft Windows 2025 Datacenter edition. [English]' and 'Microsoft Windows Server 2025 Full Locale English AMI provided by Amazon'. A table at the bottom lists the AMI details:

Architecture	AMI ID	Publish Date	Username
64-bit (x86)	ami-010e40c6557403885	2025-11-12	Administrator

The table also includes a 'Verified provider' badge.

Create key pair



Key pair name

Key pairs allow you to connect to your instance securely.

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 (Not supported for Windows instances)

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](#) 

Cancel

Create key pair

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Cancel

Create key pair

Key pair name - *required*

keynebatovapz

 [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-06ab662f50f2b52b0

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

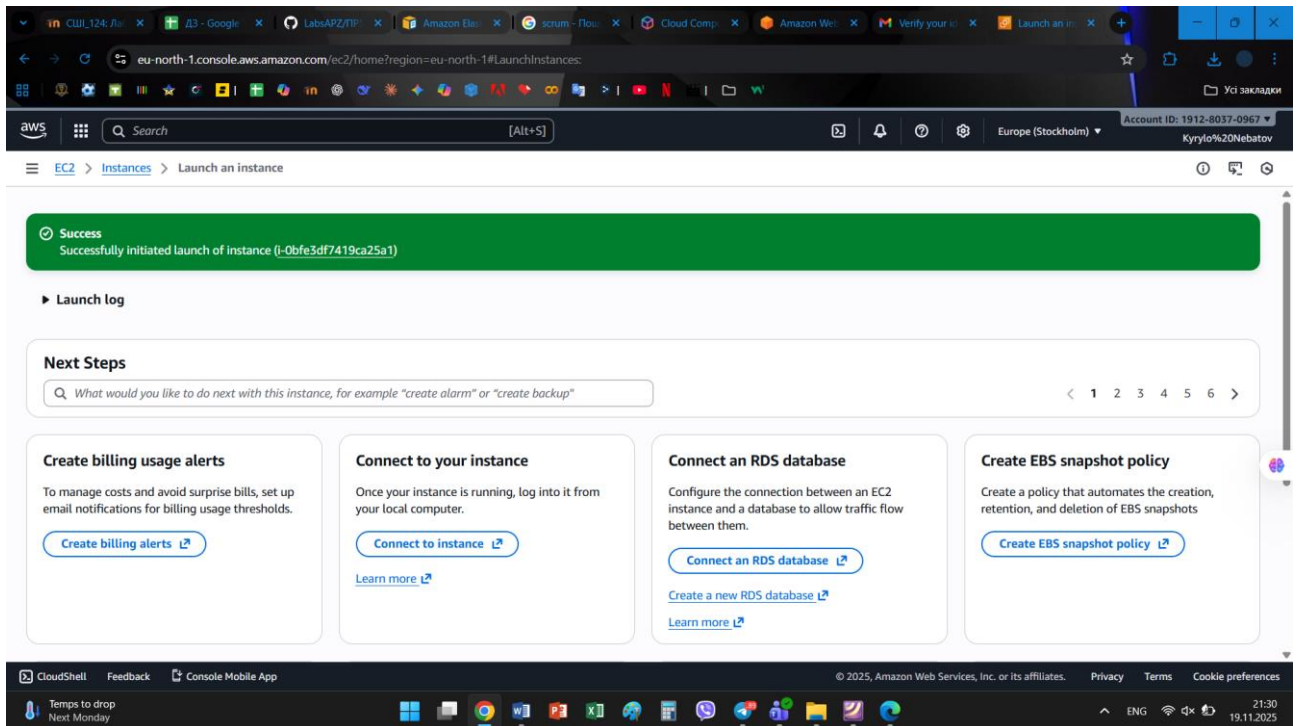
☐ Allow HTTPS traffic from the internet

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.



eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#LaunchInstances

Success
Successfully initiated launch of instance (i-0bfe3df7419ca25a1)

► Launch log

Next Steps

What would you like to do next with this instance, for example "create alarm" or "create backup"

Create billing usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing usage thresholds.
[Create billing alerts](#)

Connect to your instance
Once your instance is running, log into it from your local computer.
[Connect to instance](#)
[Learn more](#)

Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
[Connect an RDS database](#)
[Create a new RDS database](#)
[Learn more](#)

Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots.
[Create EBS snapshot policy](#)

CloudShell Feedback Console Mobile App

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Temps to drop
Next Monday

21:30
19.11.2025

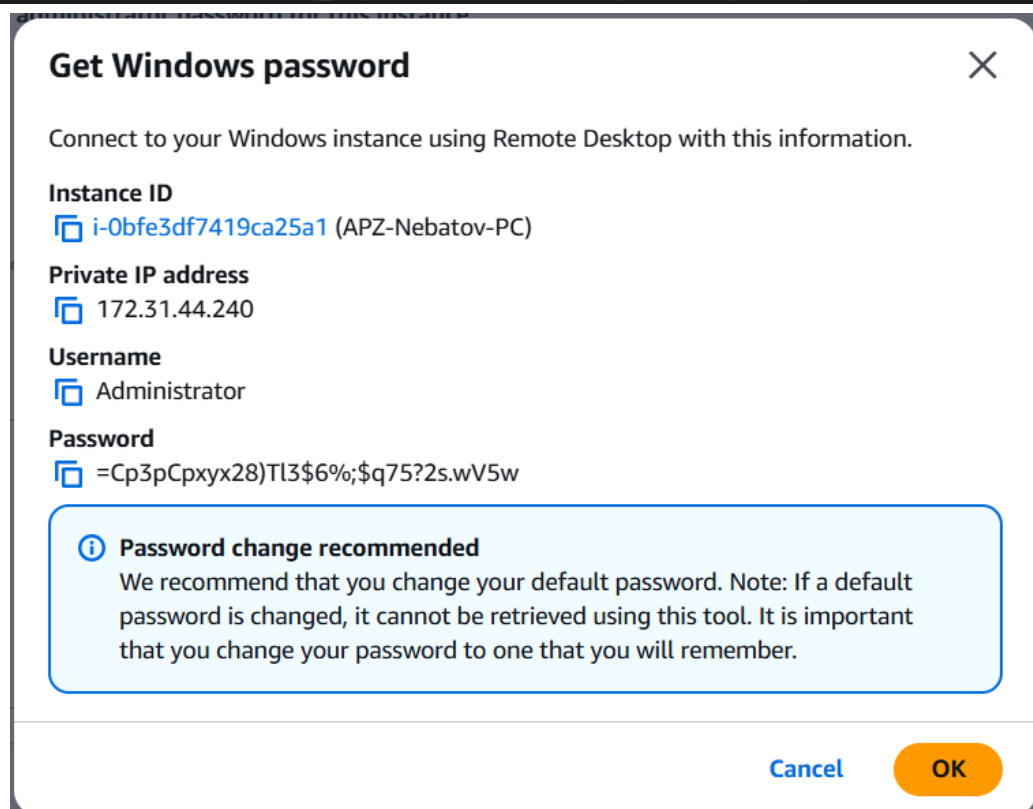
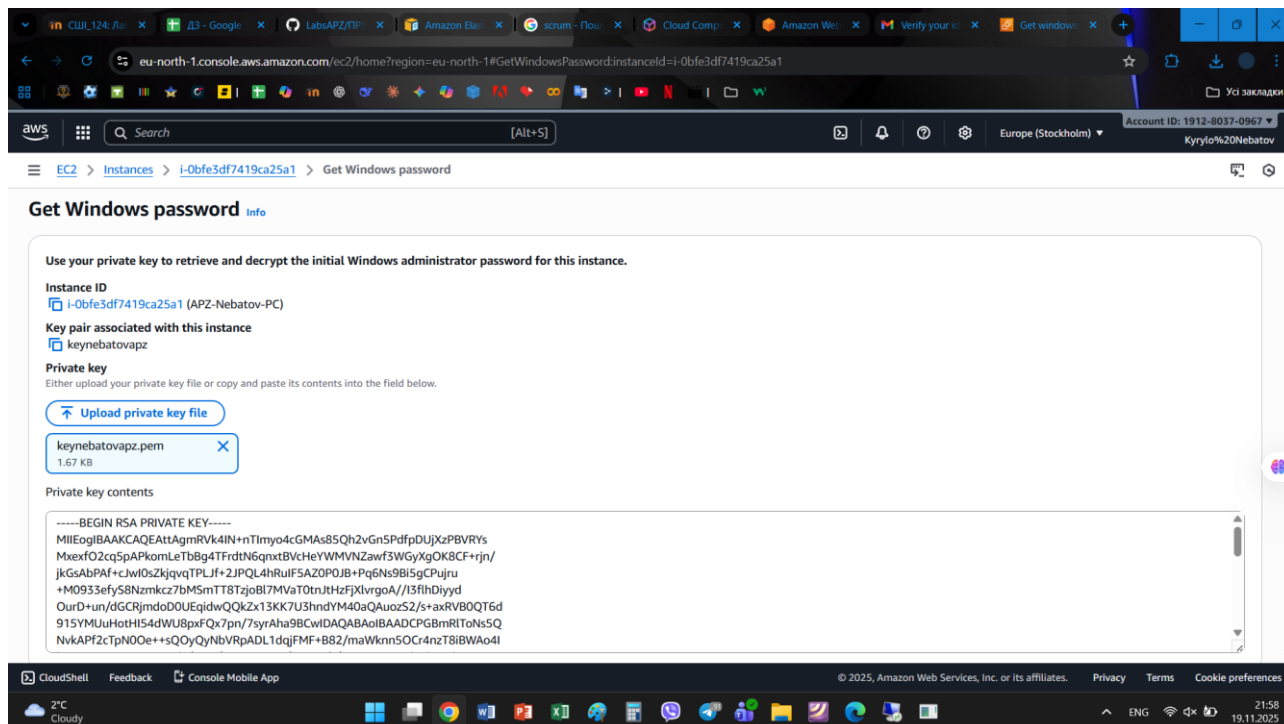
Нещодавня історія завантажень



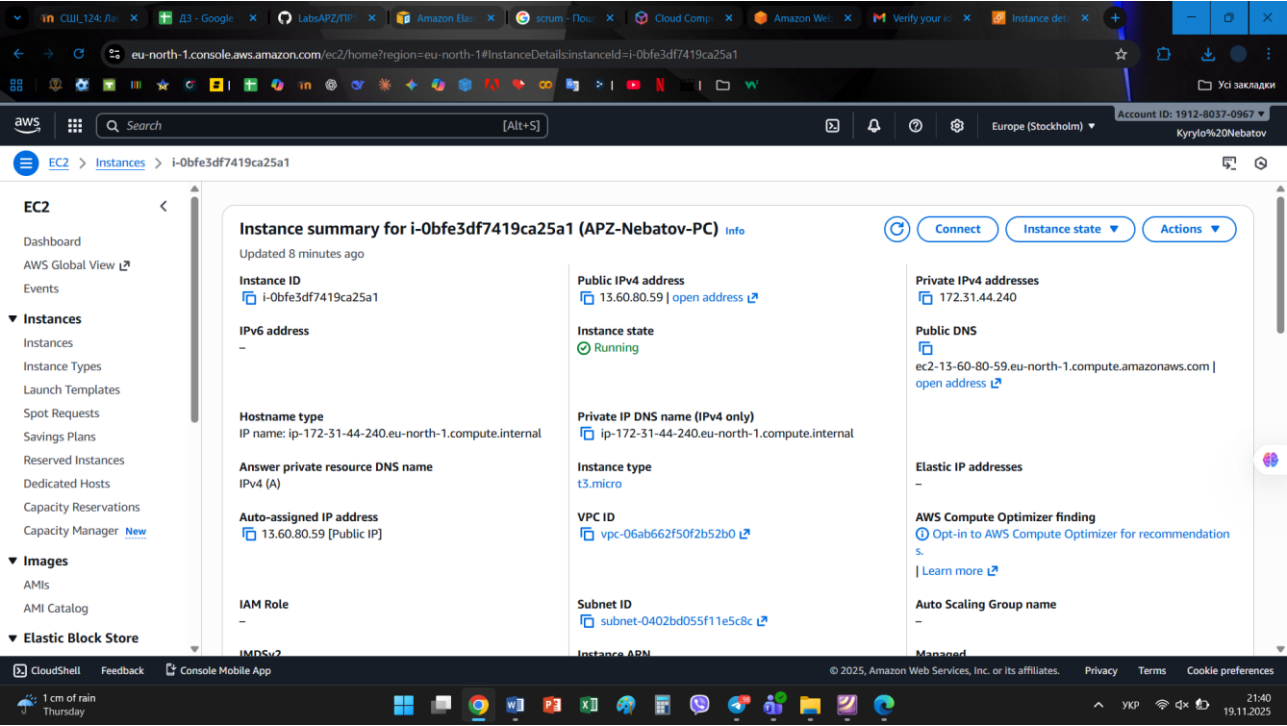
keynebatovapz.pem

1 674 Б • 25 хвилин тому

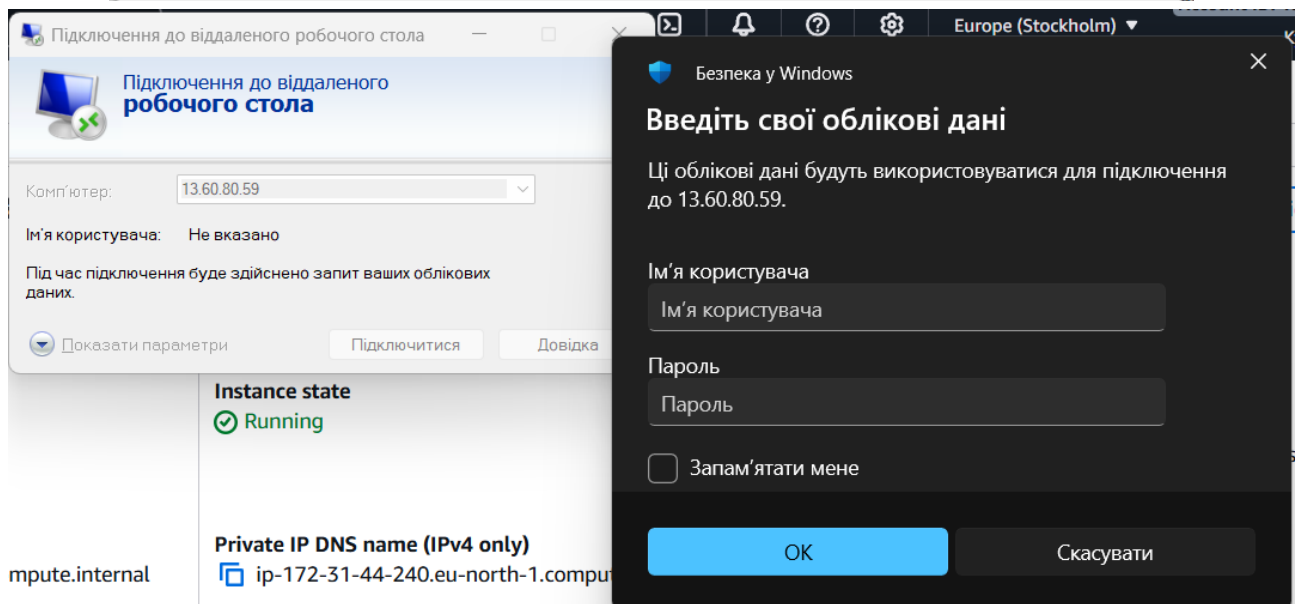
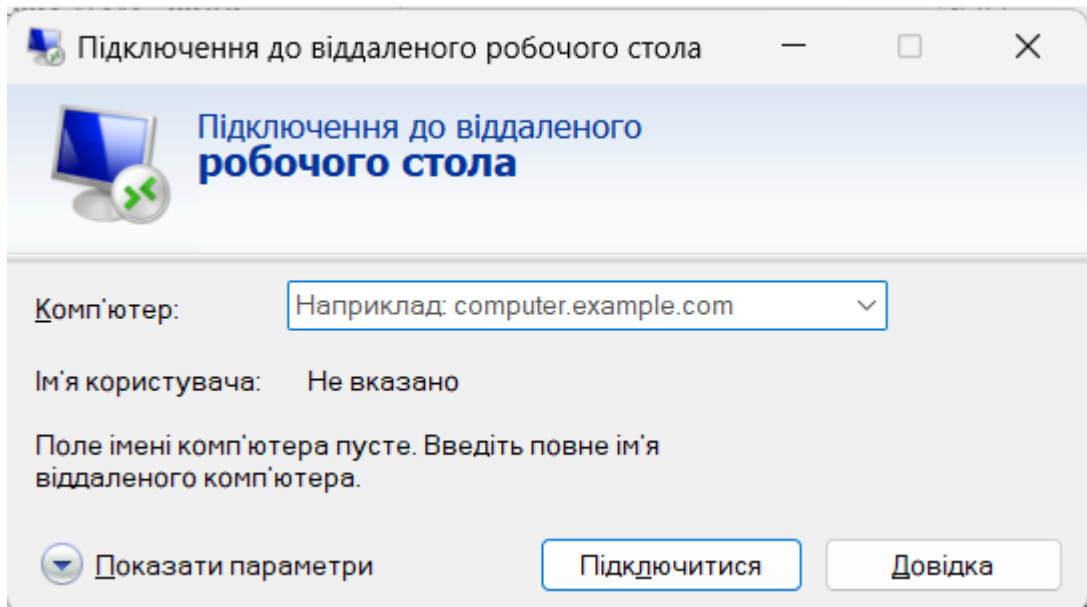
Закрити



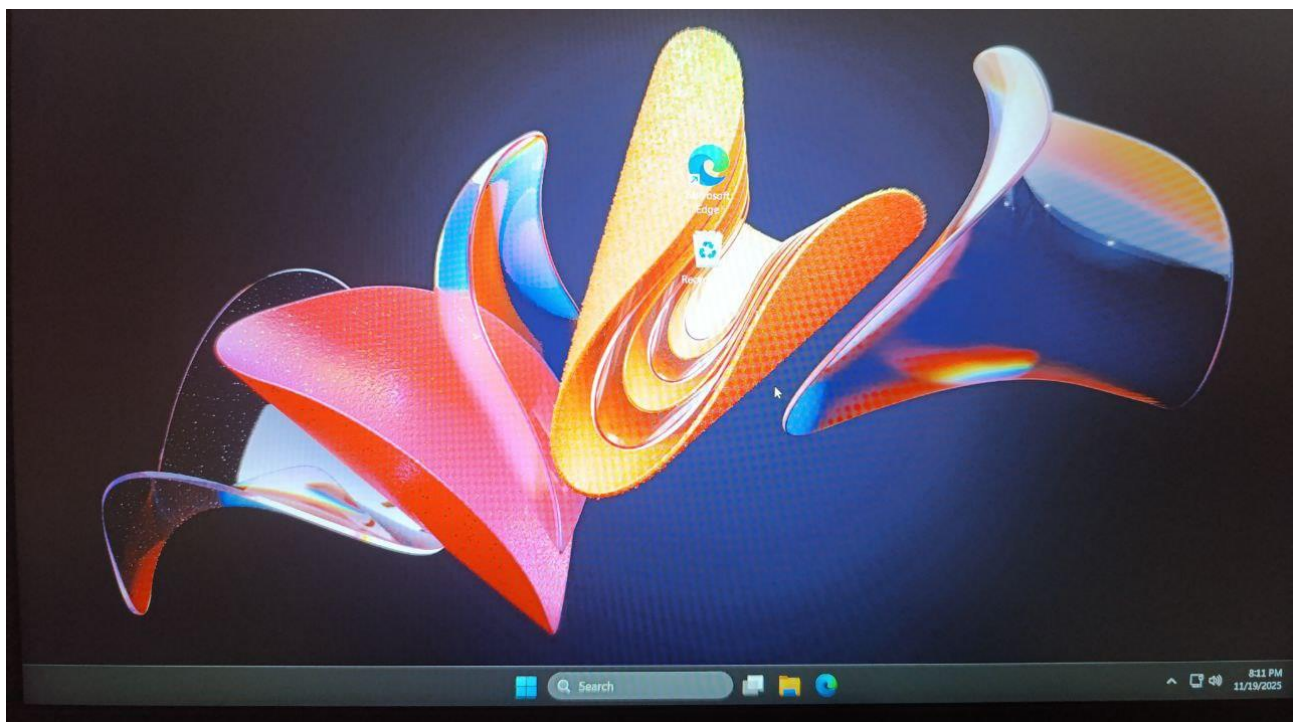
Вигляд створеного комп'ютера:



Підключення до комп'ютера:



Змінюємо візуальні налаштування:



Результати:

IP: 13.60.80.59

Private IP address: 172.31.44.240

Username: Administrator

Password: =Cp3pCpxyx28)Tl3\$6%;\$q75?2s.wV5w