Active Directory Deployment & Hardening – Secure domain controller with baseline GPOs

Deployment of a Windows Server Domain Controller (Active Directory)

Company Name: CyberTech Solutions.

It includes domain setup, client configuration, OU design, group policies, and access control in an enterprise environment.

Company Structure:

CyberTech Solutions an IT services firm with the following structure:

- 1 x Windows Server (AD Domain Controller)

- 1 x Windows 8 A Client PC (IT Department)

- 1 x Windows 8 B Client PC (Sales Departemnt)
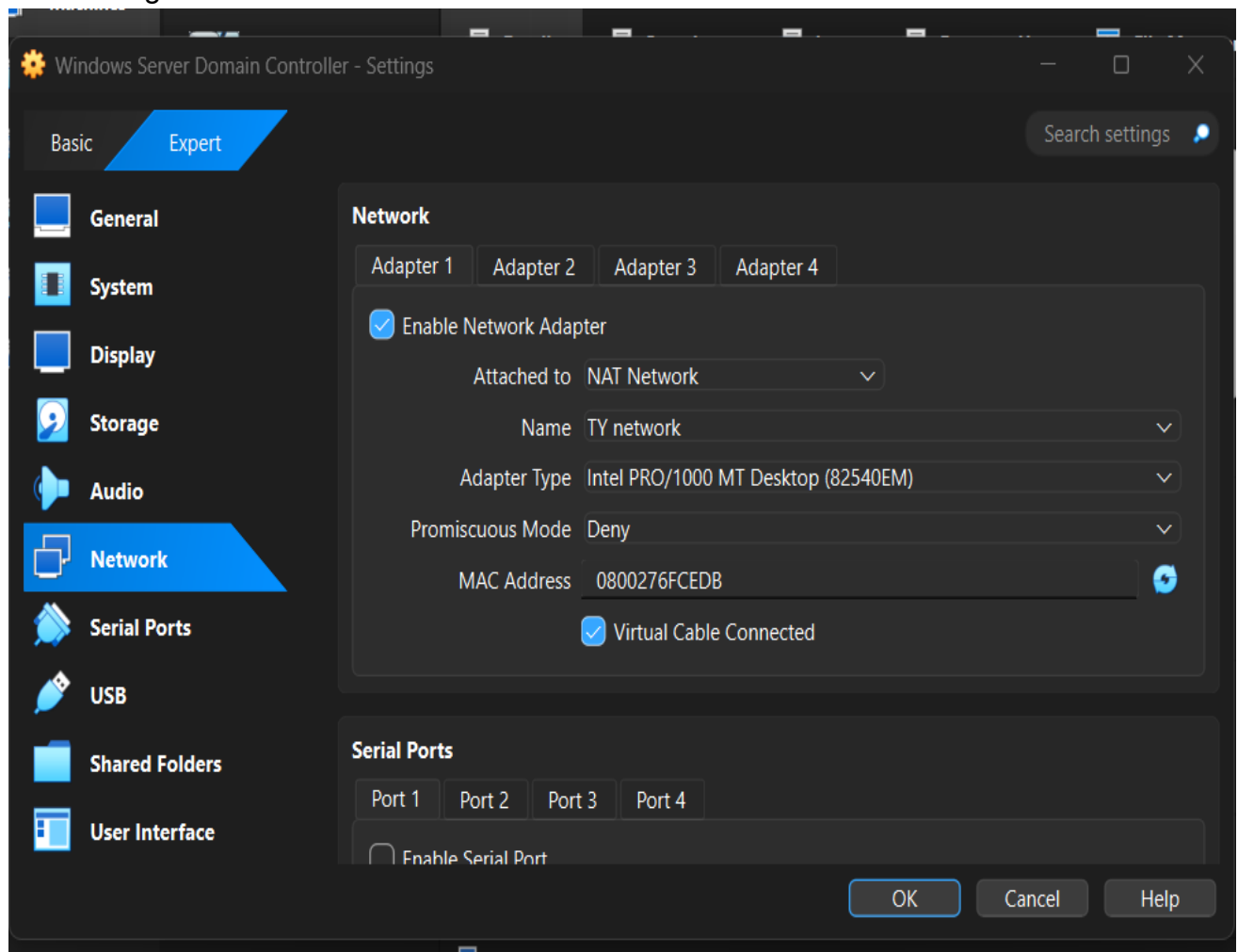
Project Objectives:

- Configure an AD Domain Controller on Windows Server

- Join client PCs to the domain

- Create Organizational Units (OUs)

- Implement basic Group Policies for access control

- Simulate a centralized IT environment.
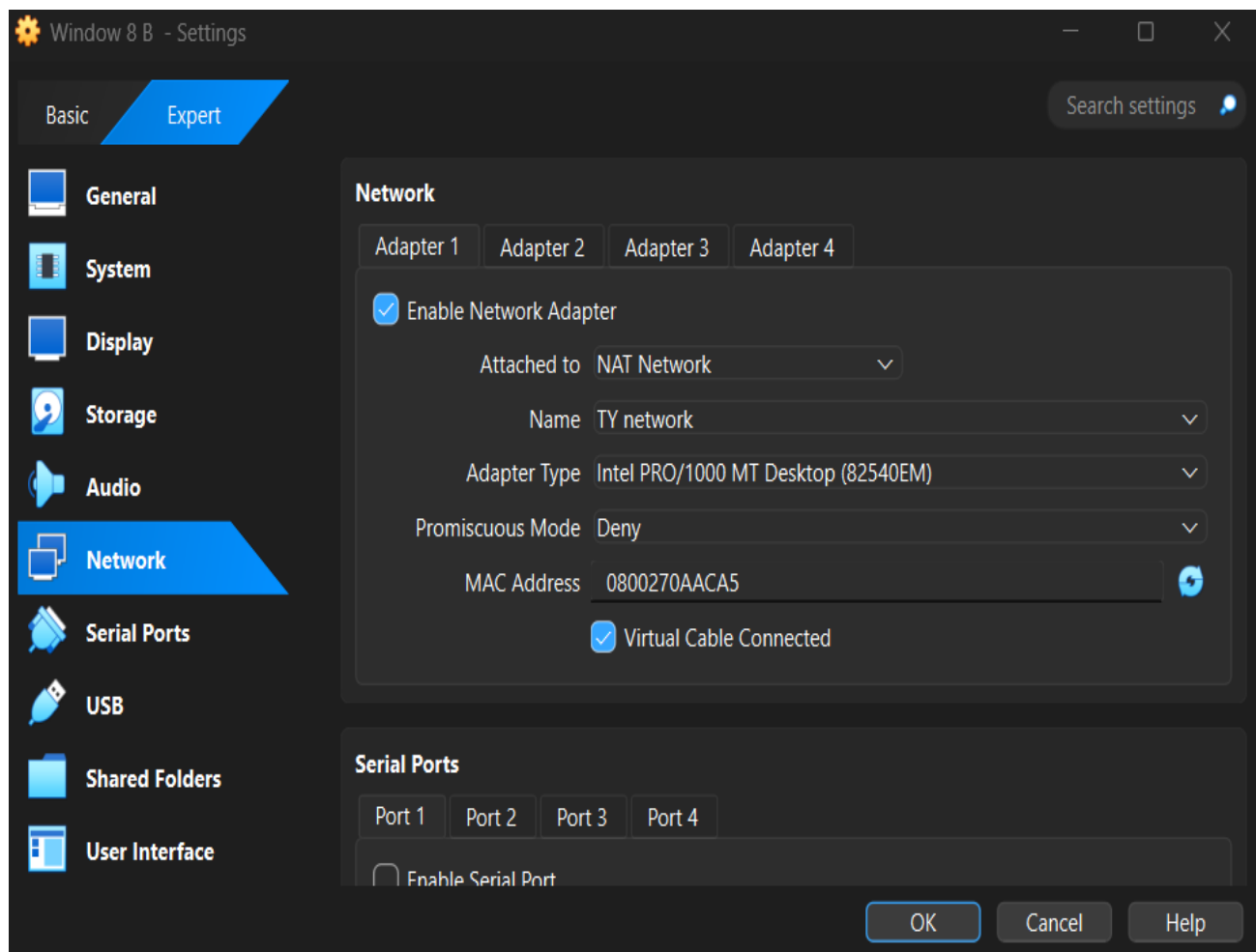
See Screenshots below for walkthrough:
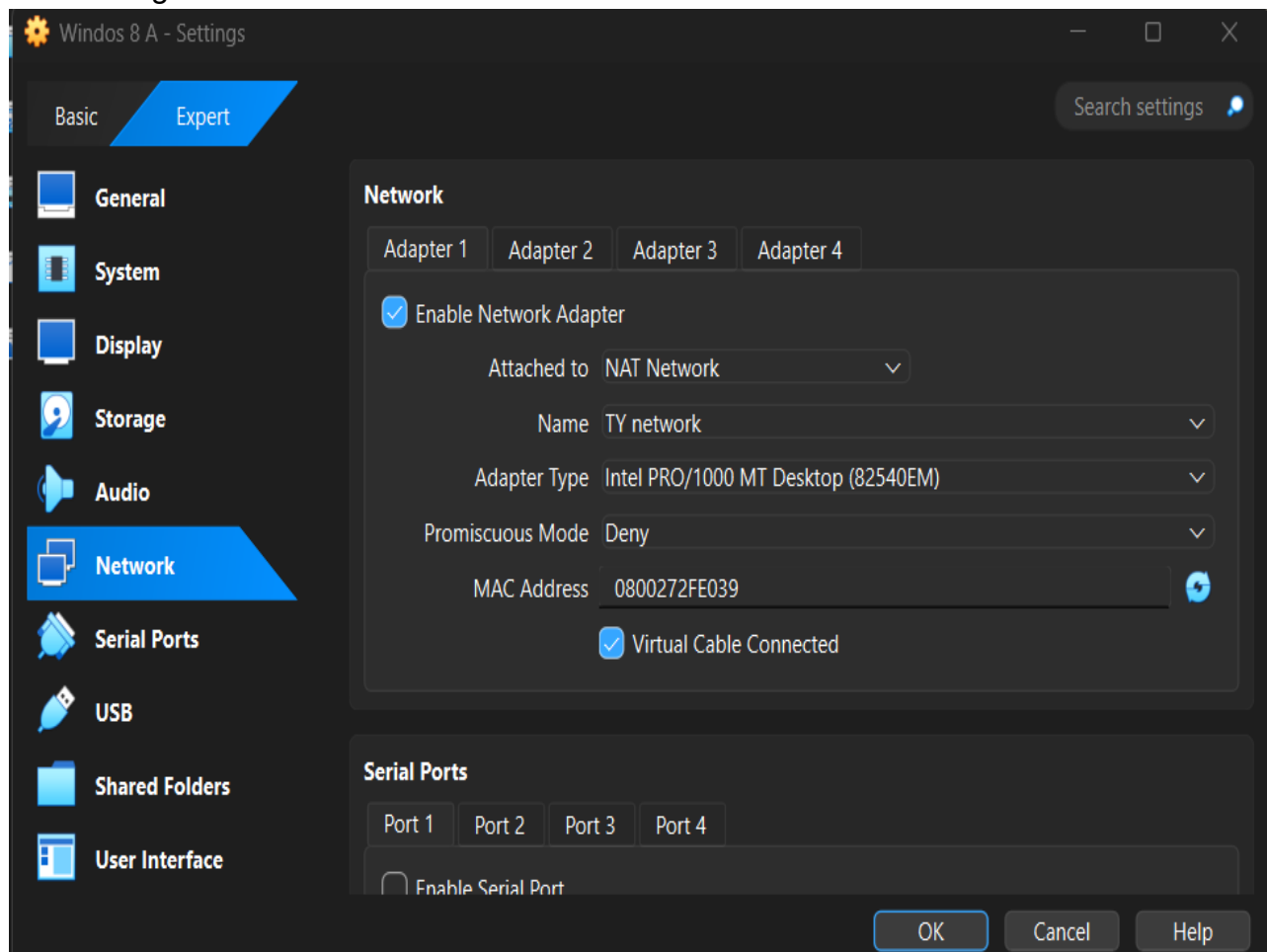
Network creation in VM
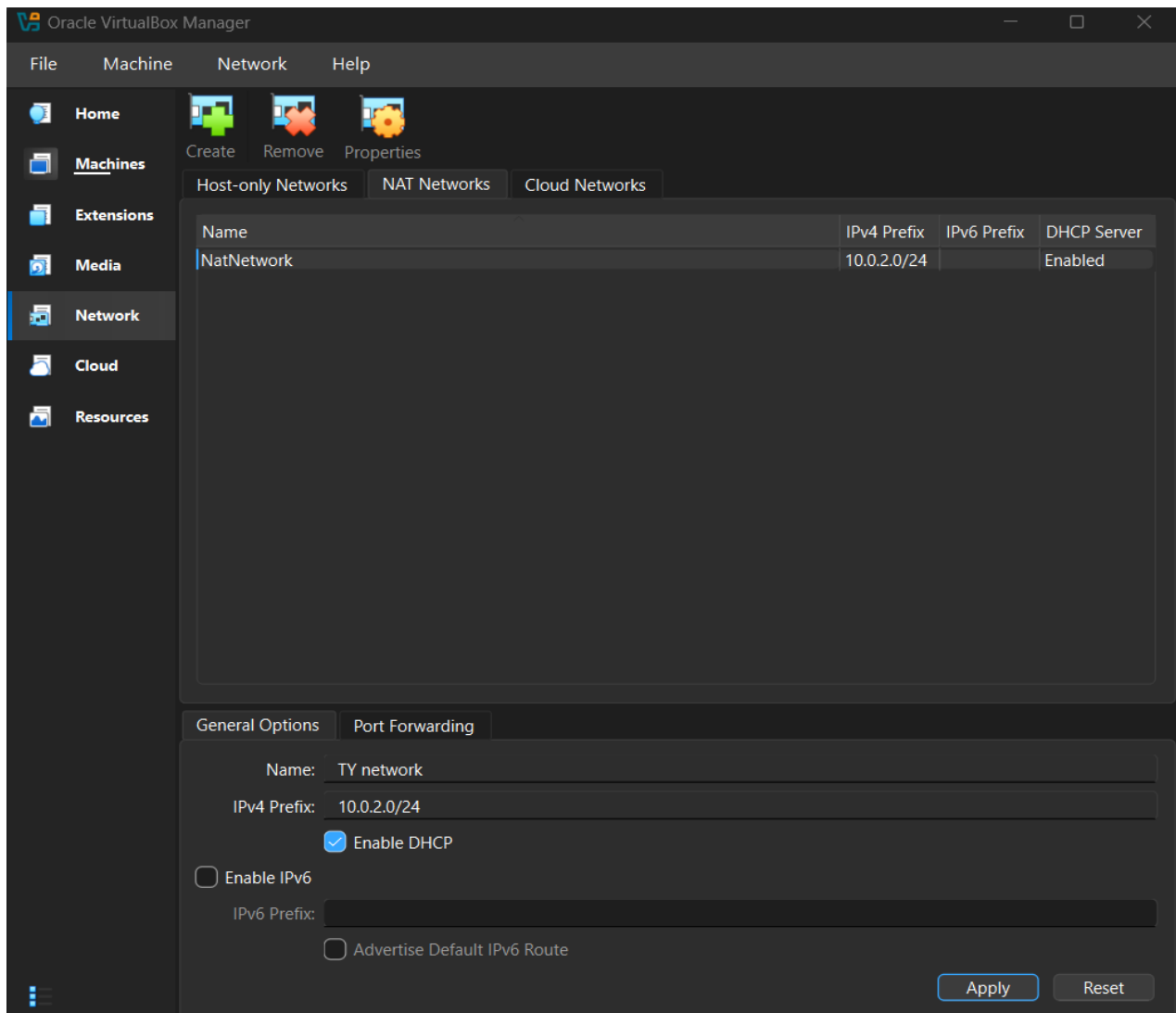
Connecting Network to WIndos Server domain

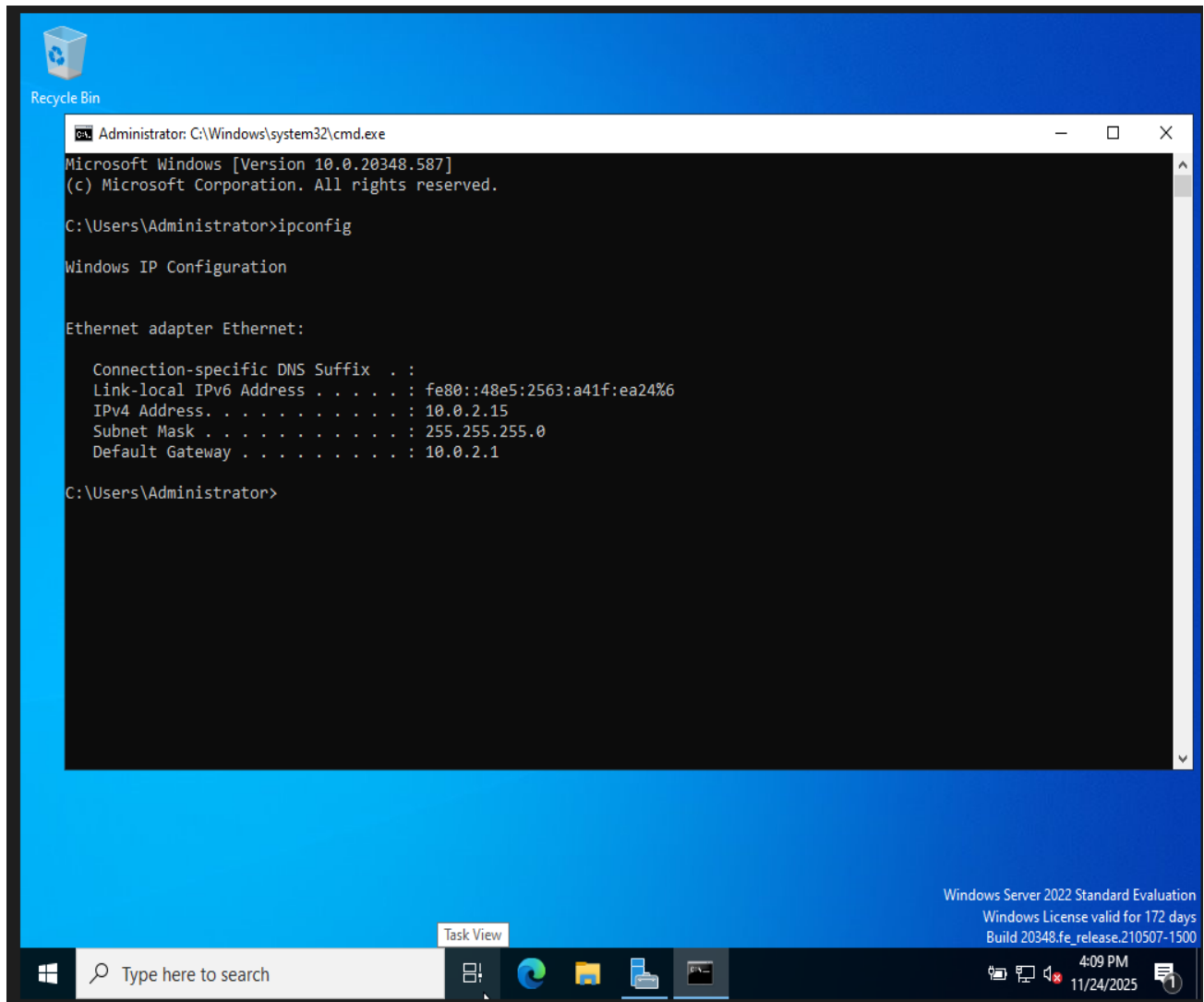Connecting Network to windows 8 b network
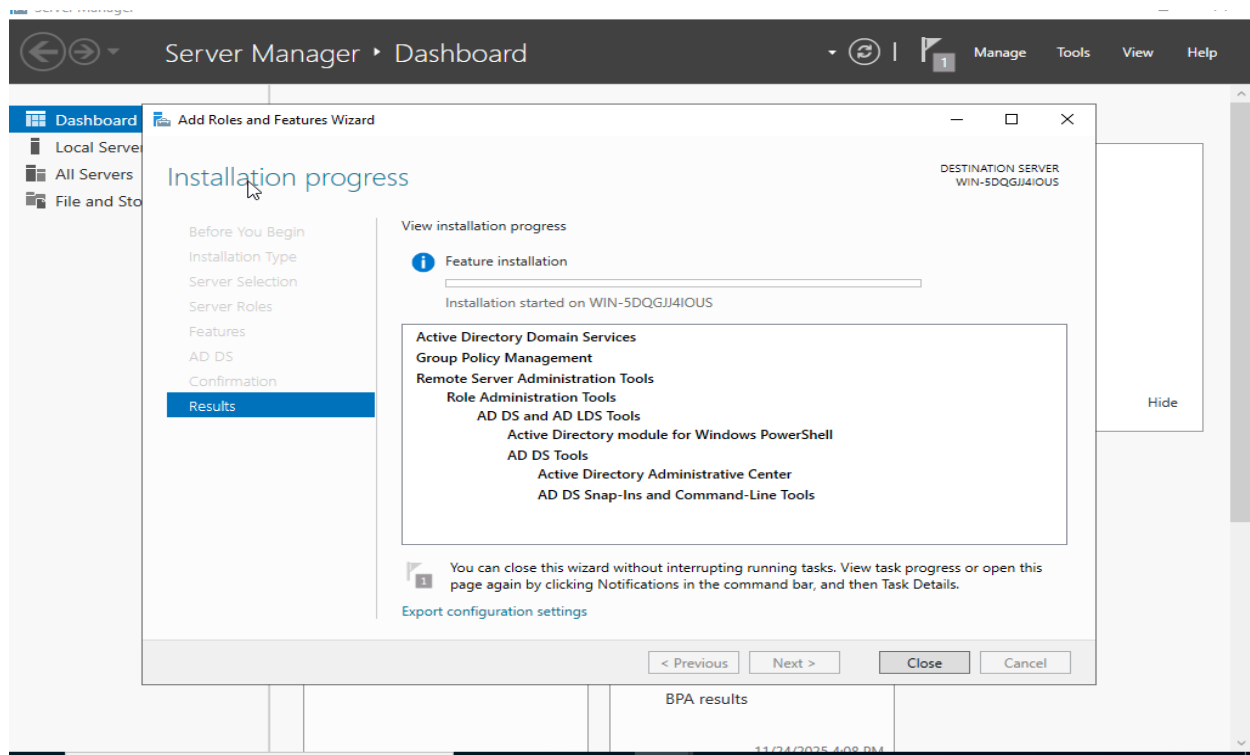
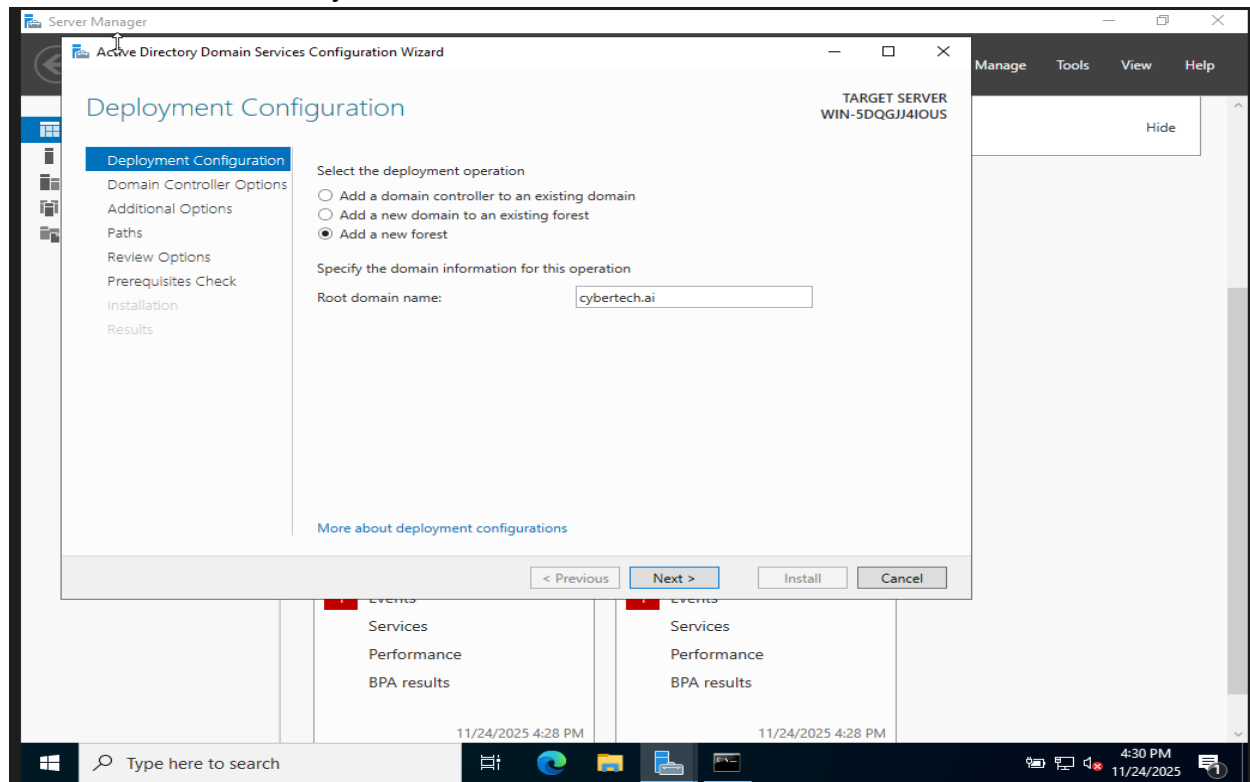Connecting Network to windows 8 A network

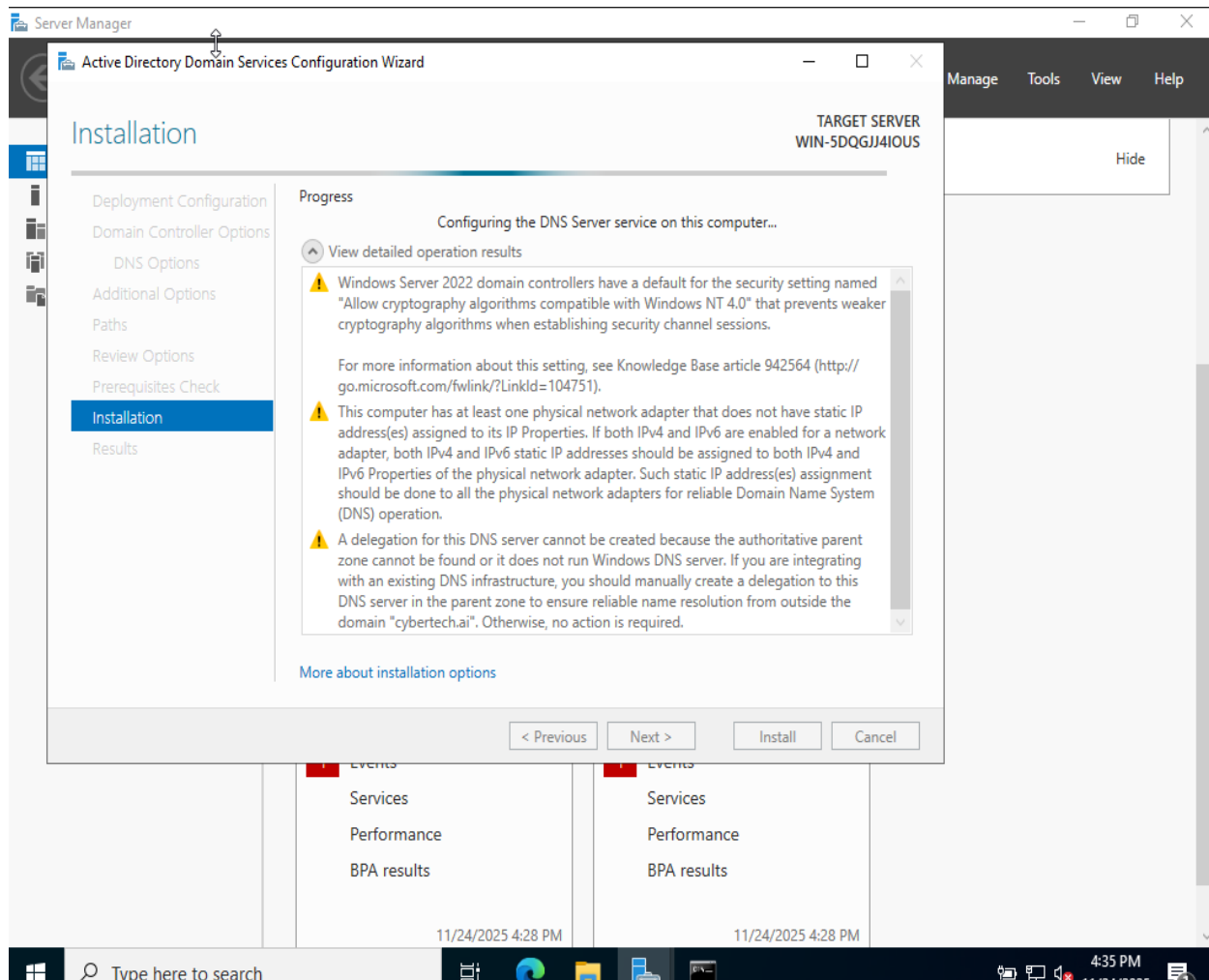Confirming Server IP – 10.0.2.15

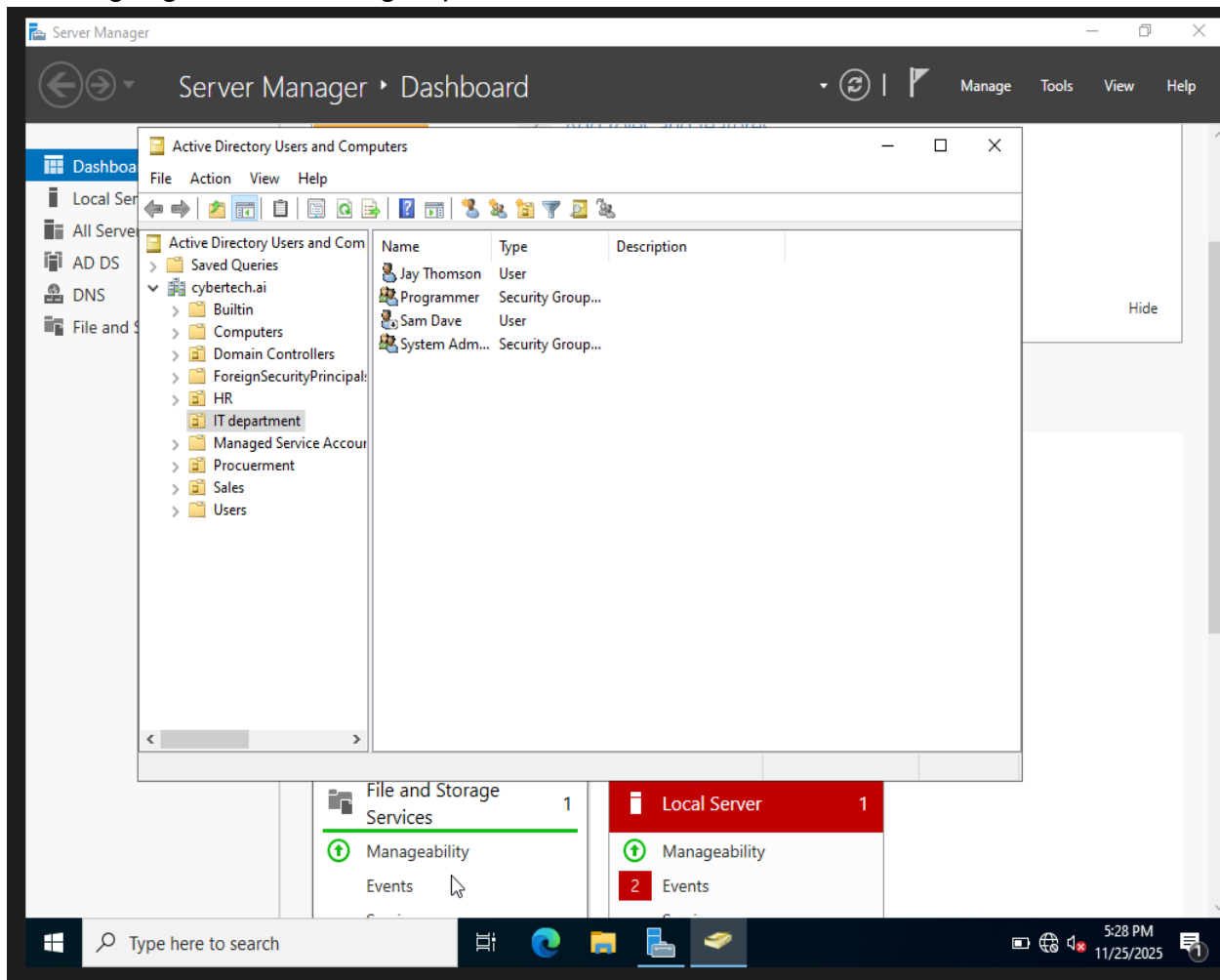Subnet Mask- 255.255.255.0

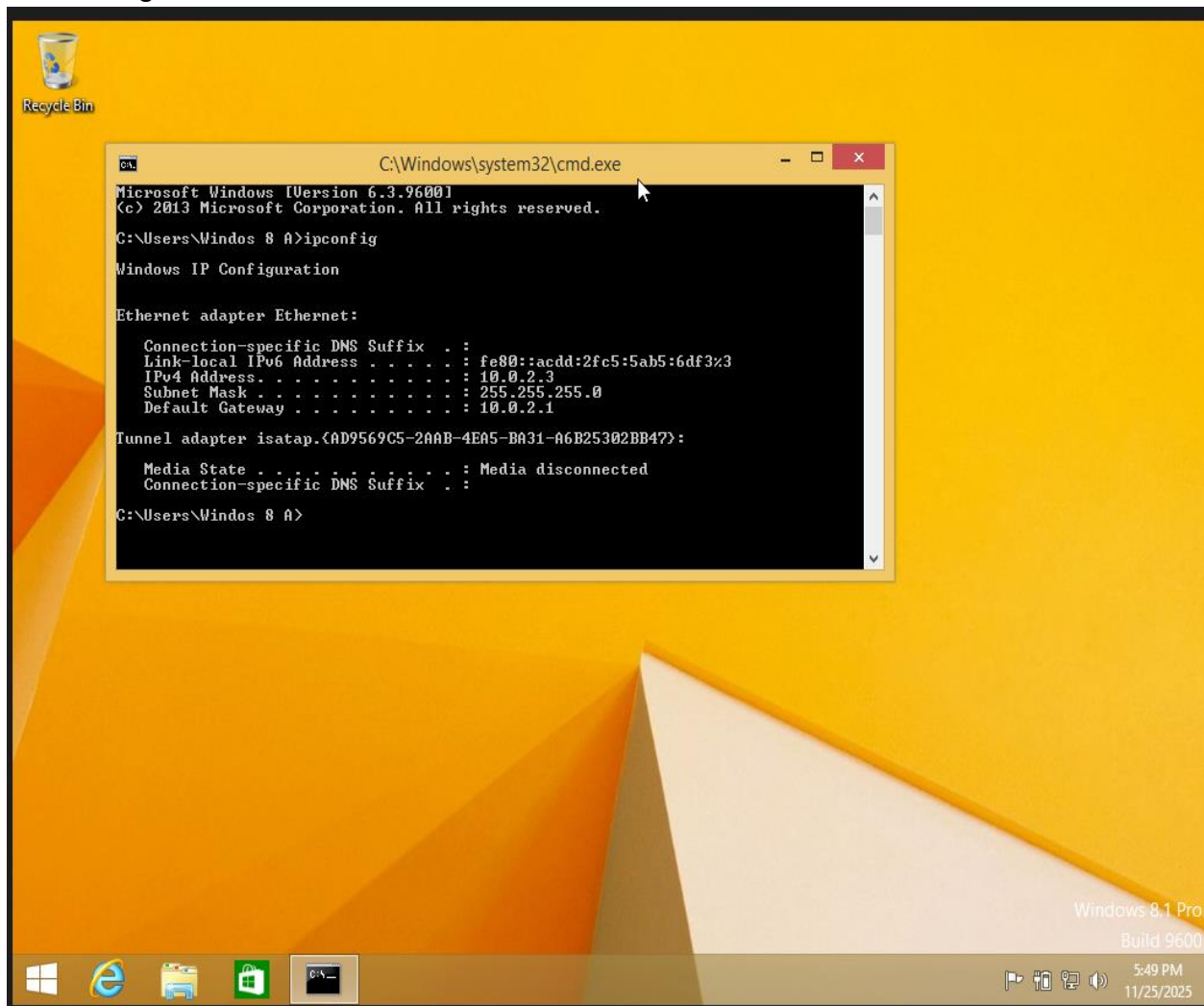## Installation of Active directory

Root domain name – cybertech.ai
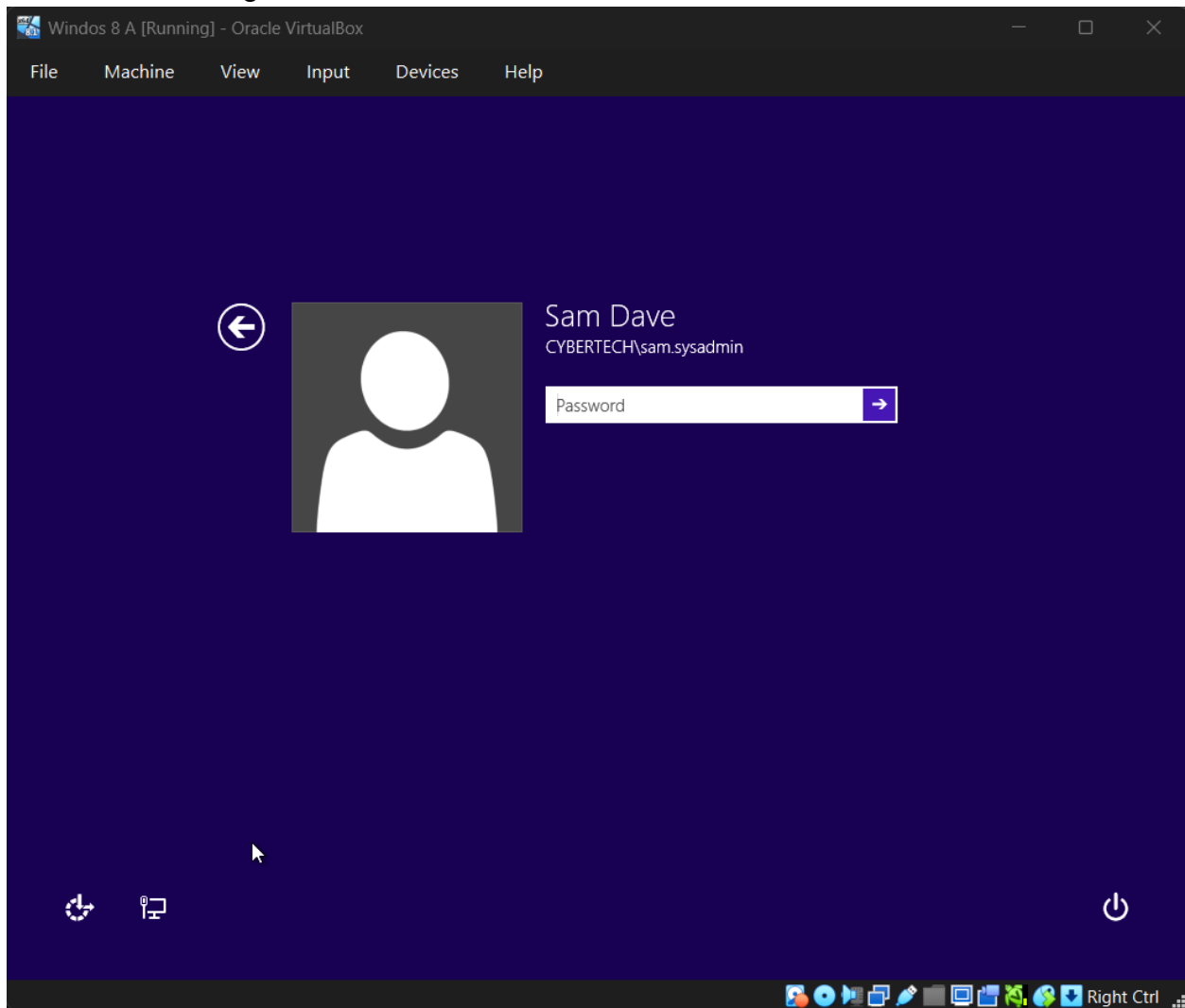
DNS installation
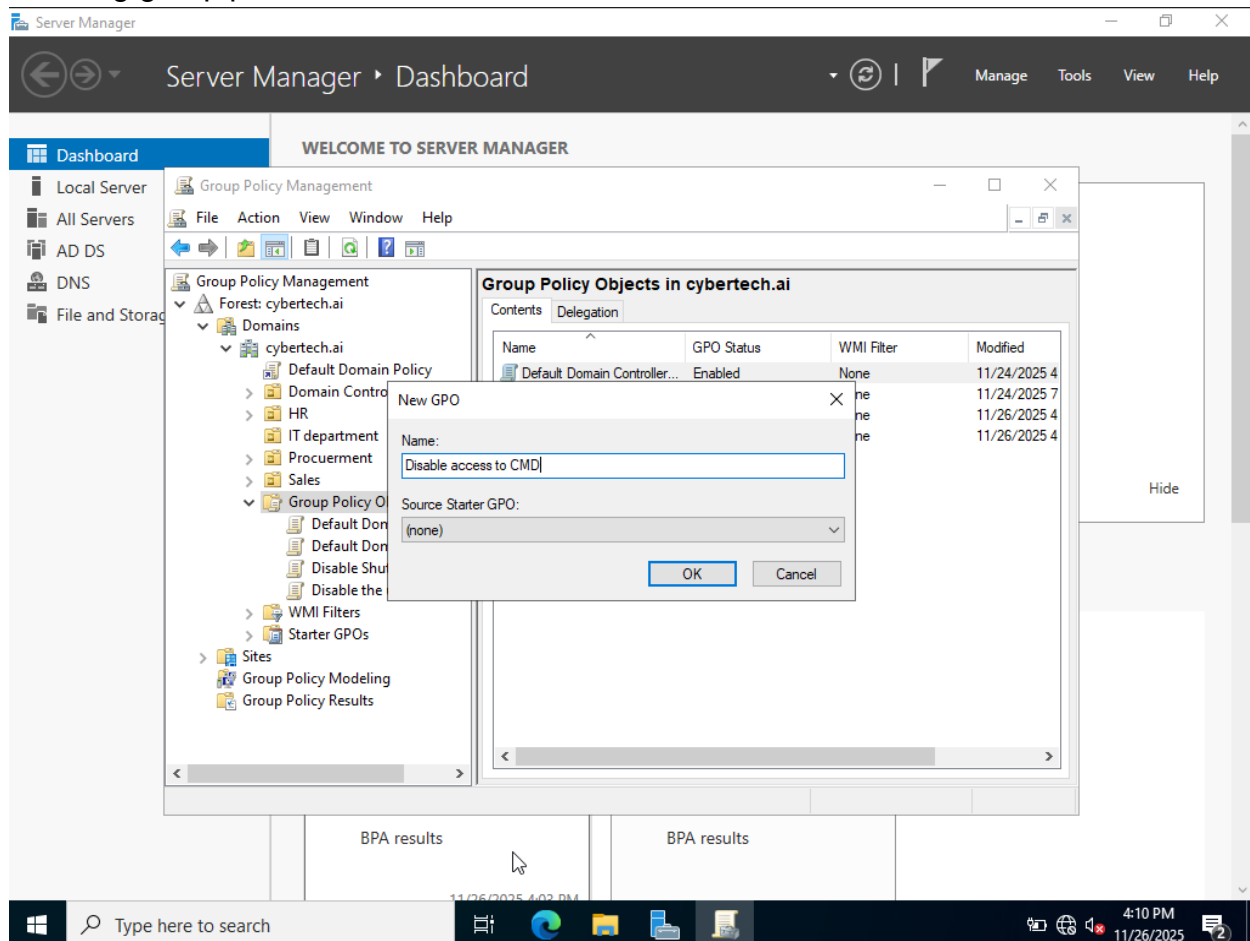
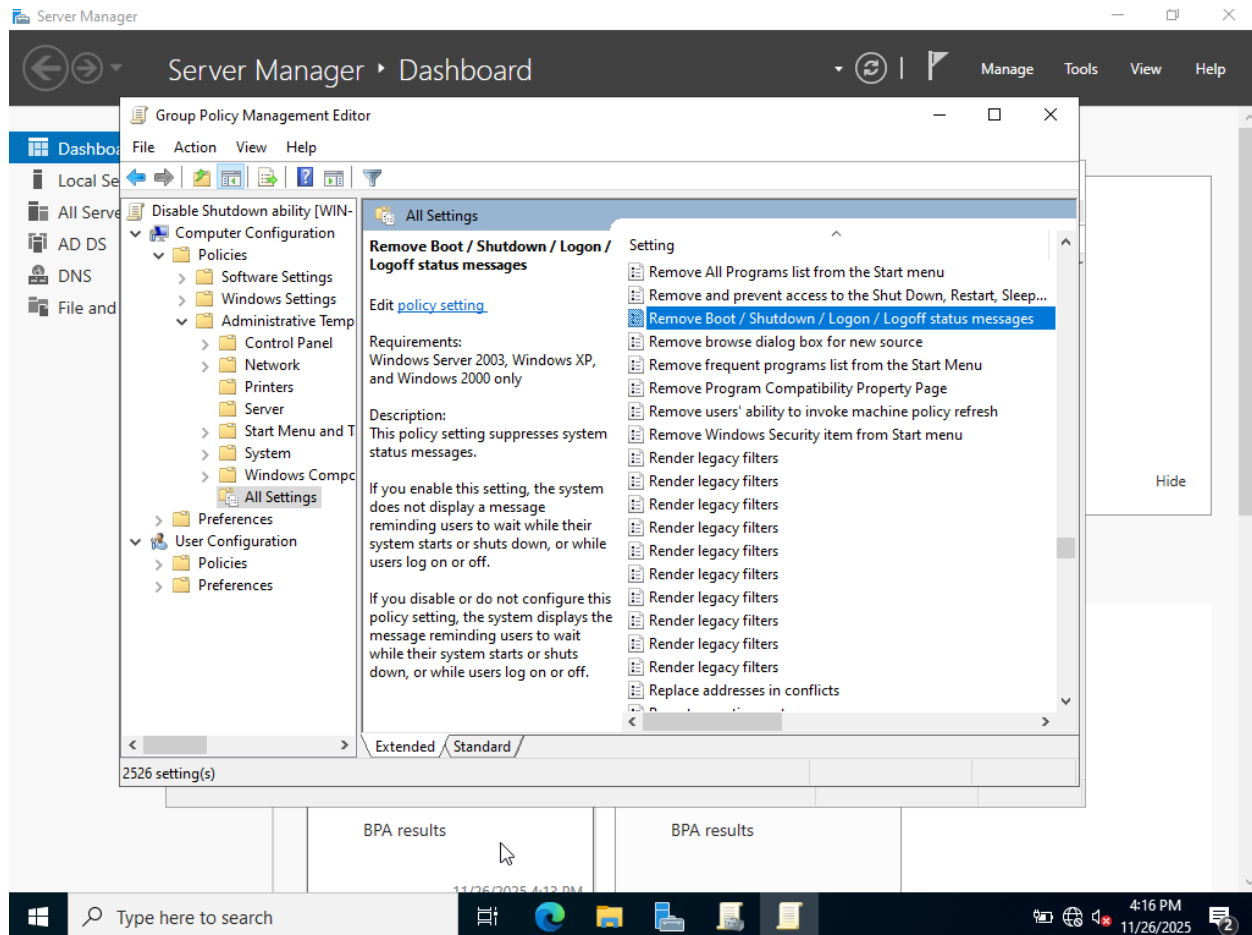Creating organization unit, groups, users and roles.

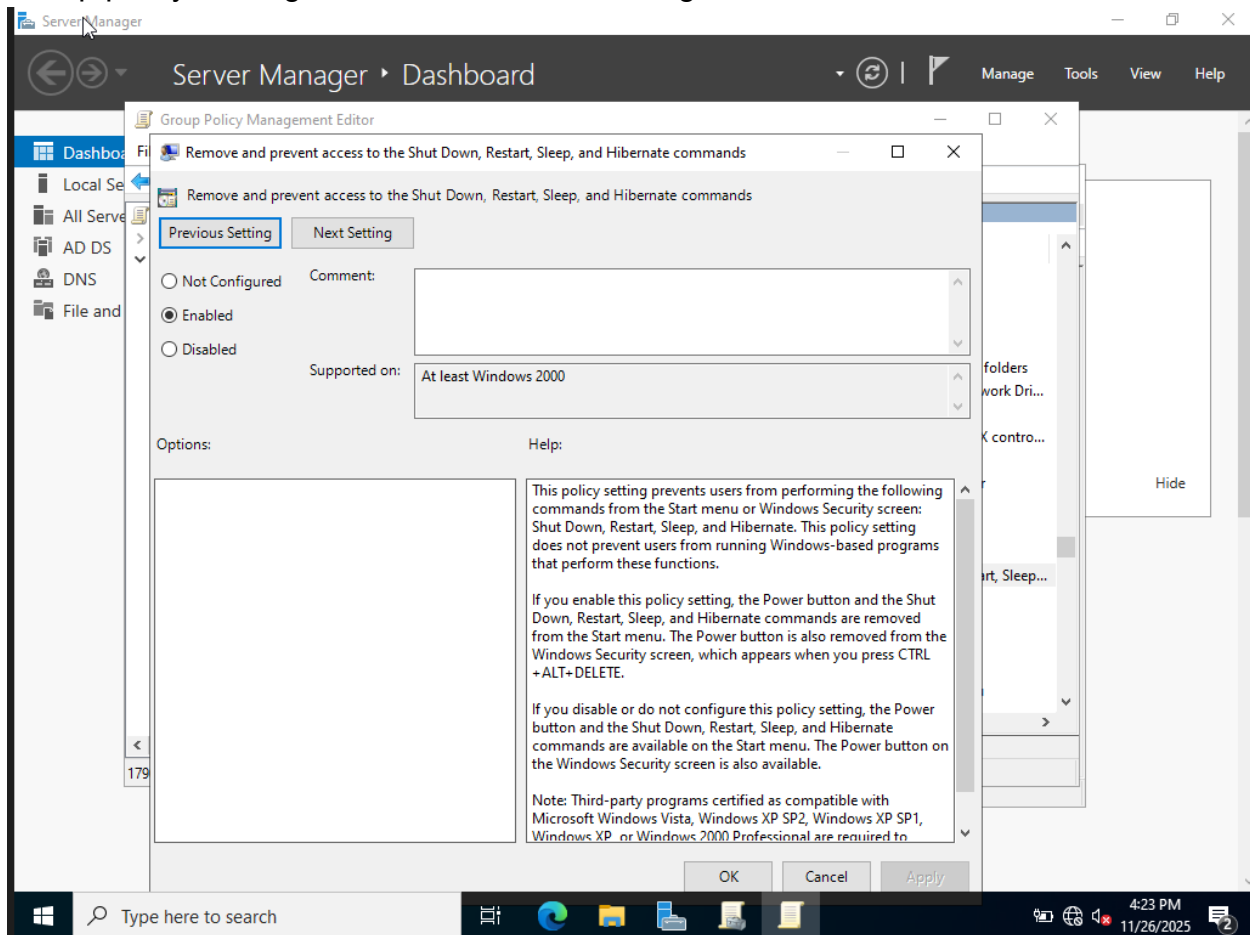Confirming IP for windows 8 A

Windows 8 A assigned to User Sam

Creating group policies in AD – Disable access to CMD

Group policy management editor on Computer configuration

Group policy management editor on User configuration
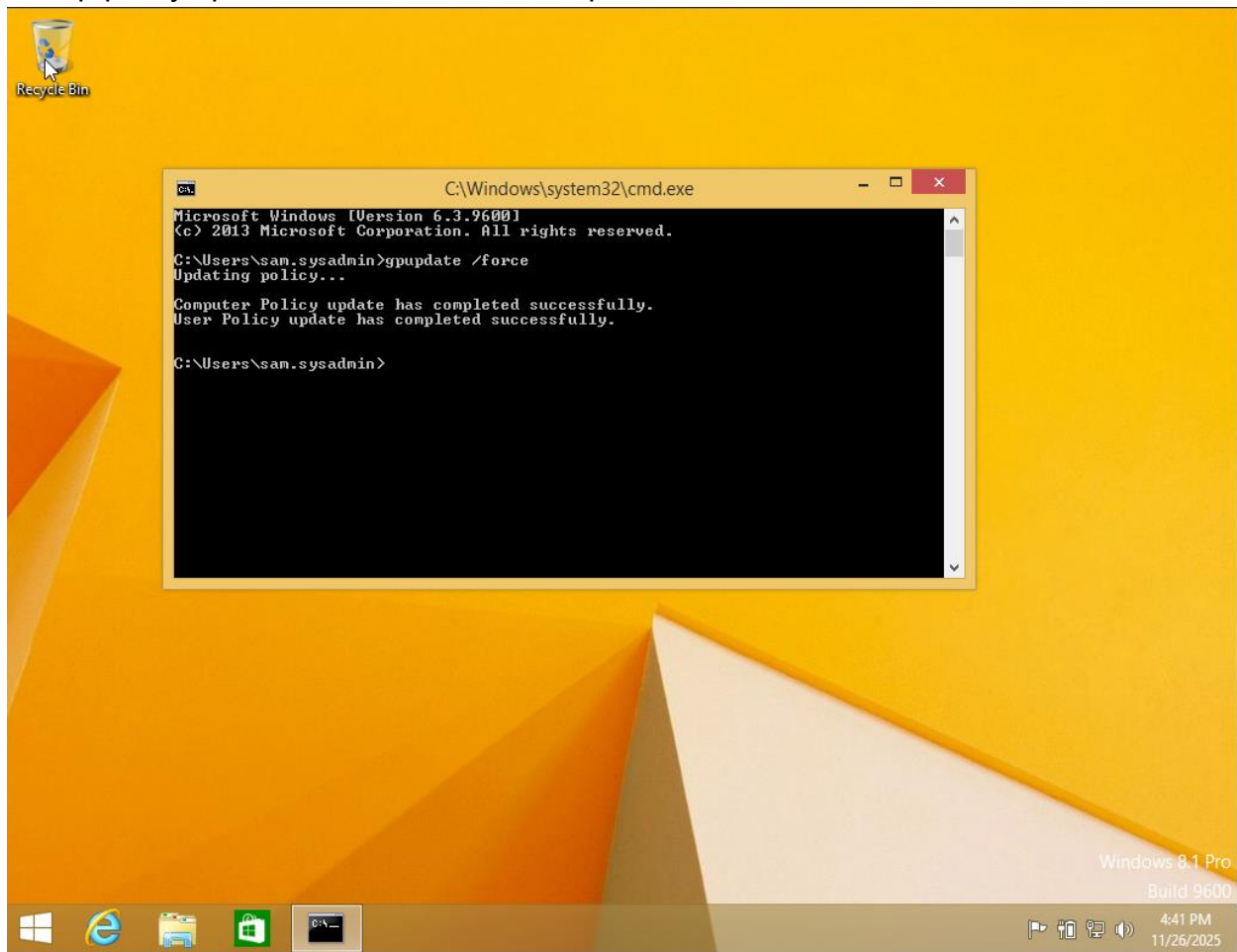
Group policy management details

Group policy management attached to a user in OU
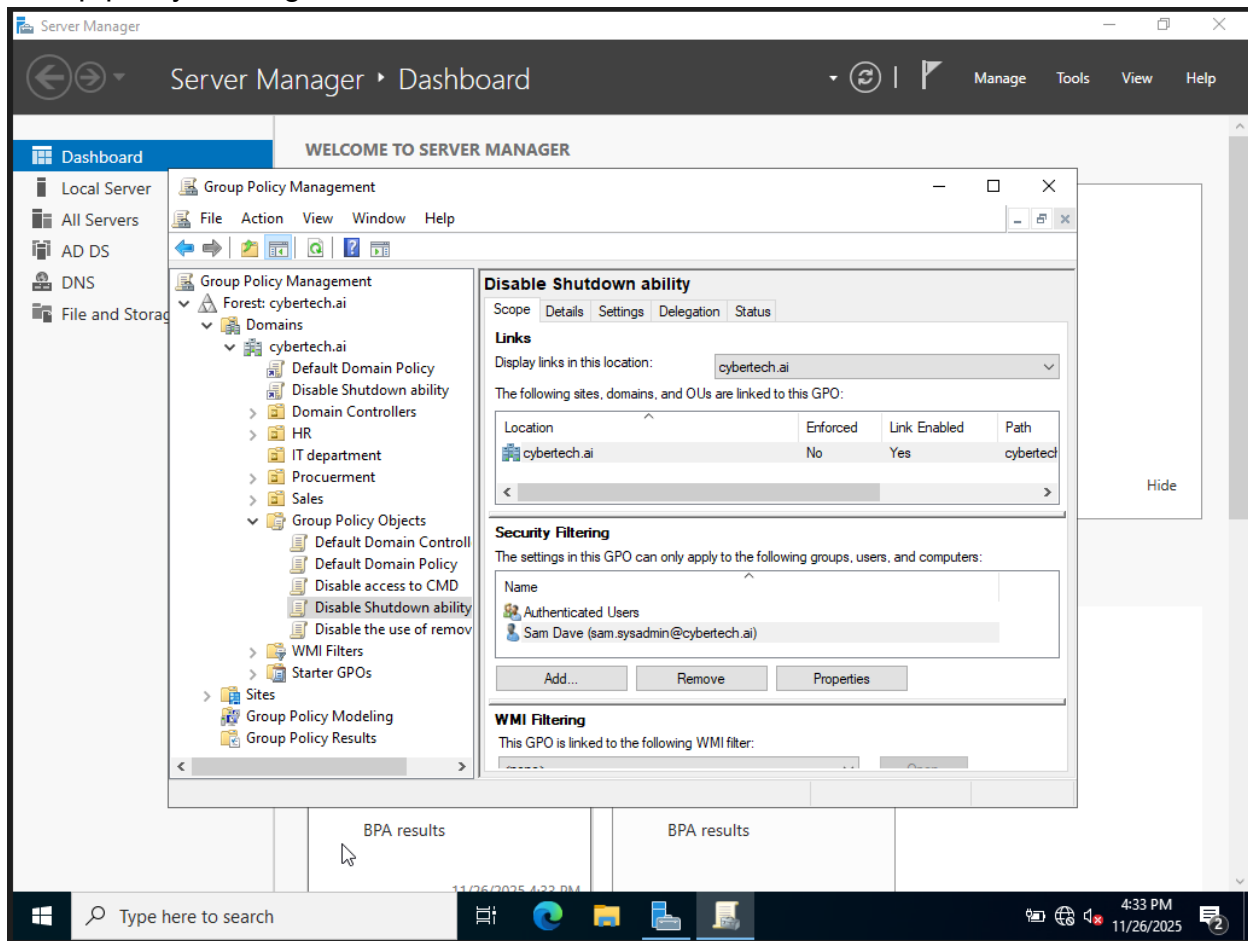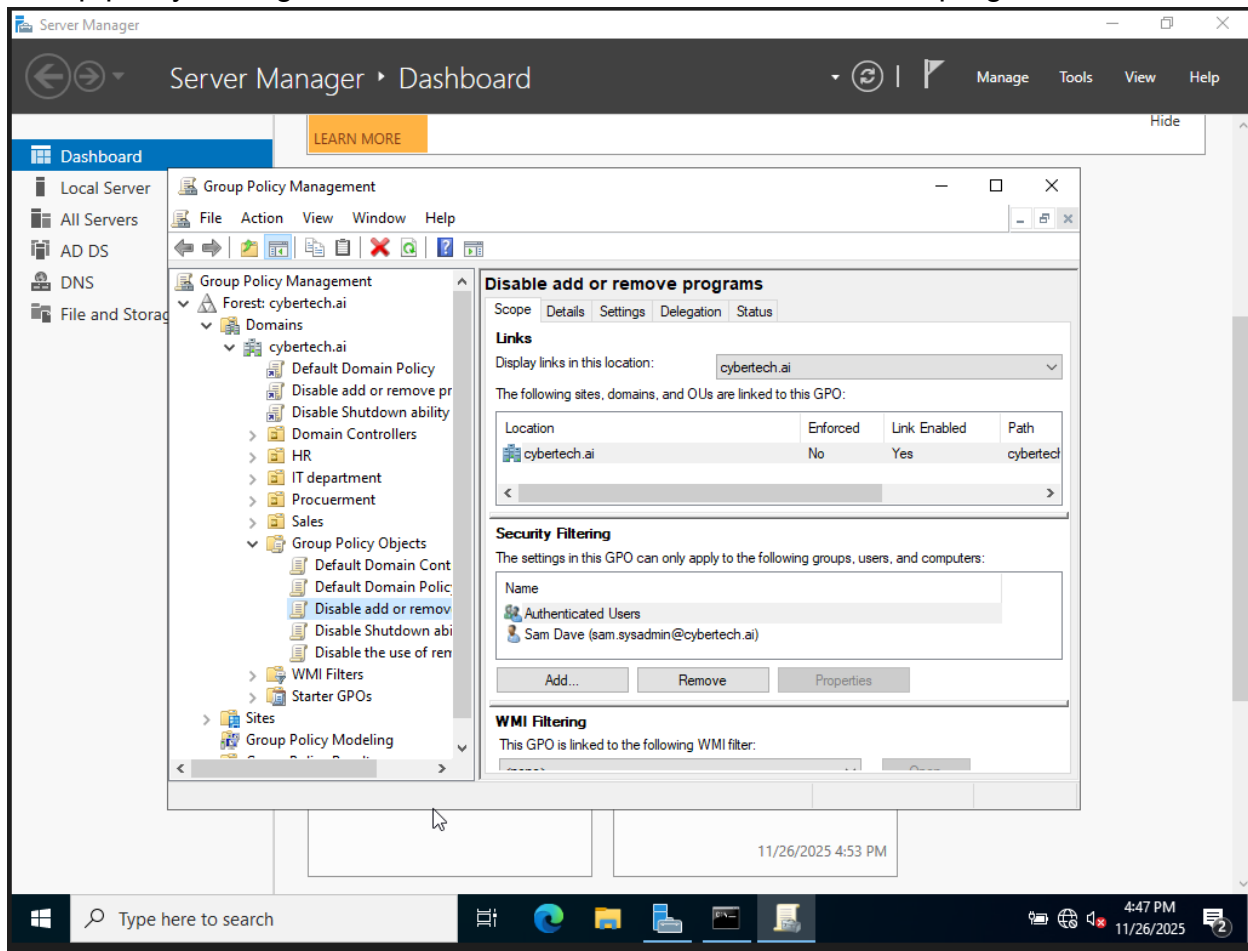
Group policy update on Sever in CMD
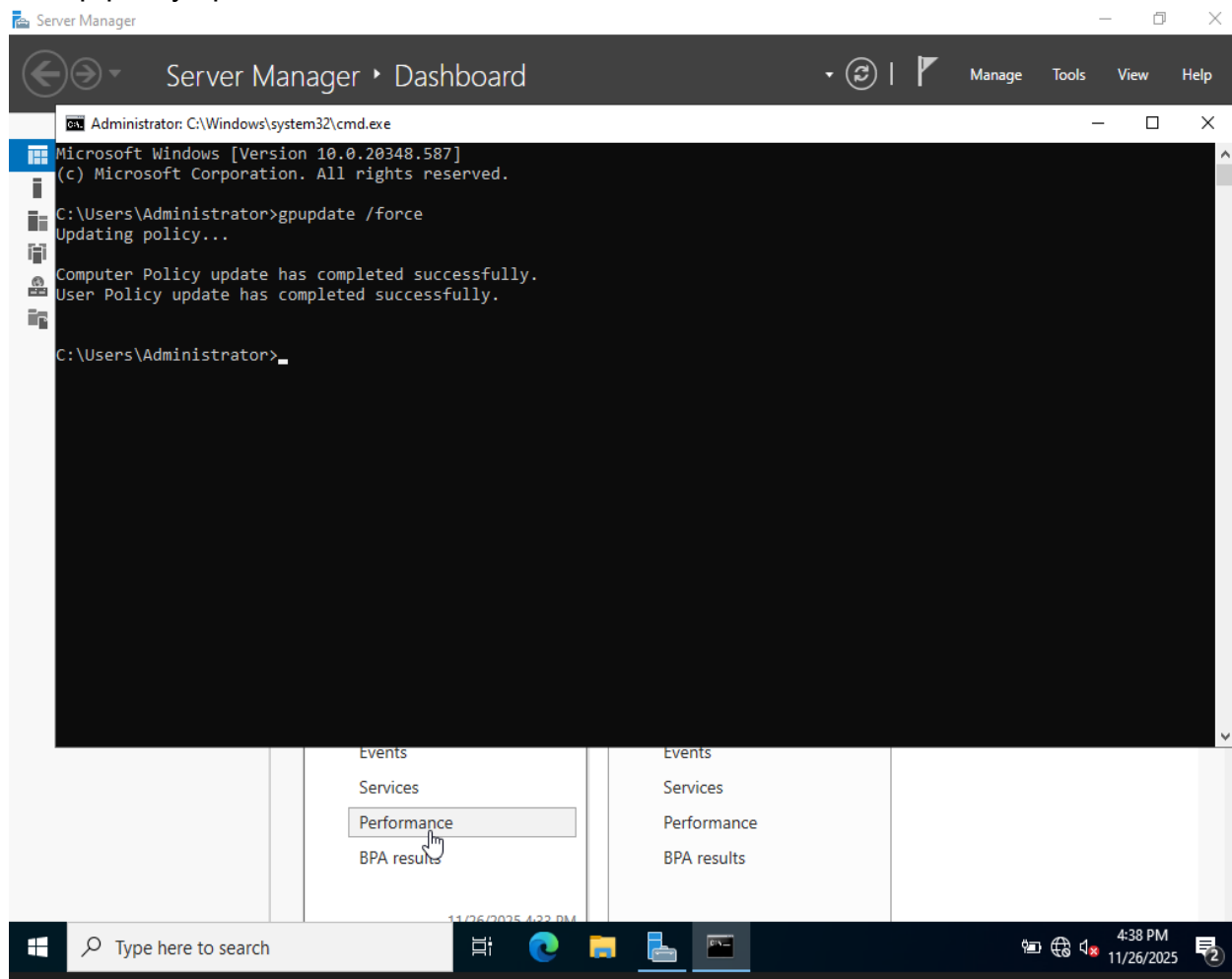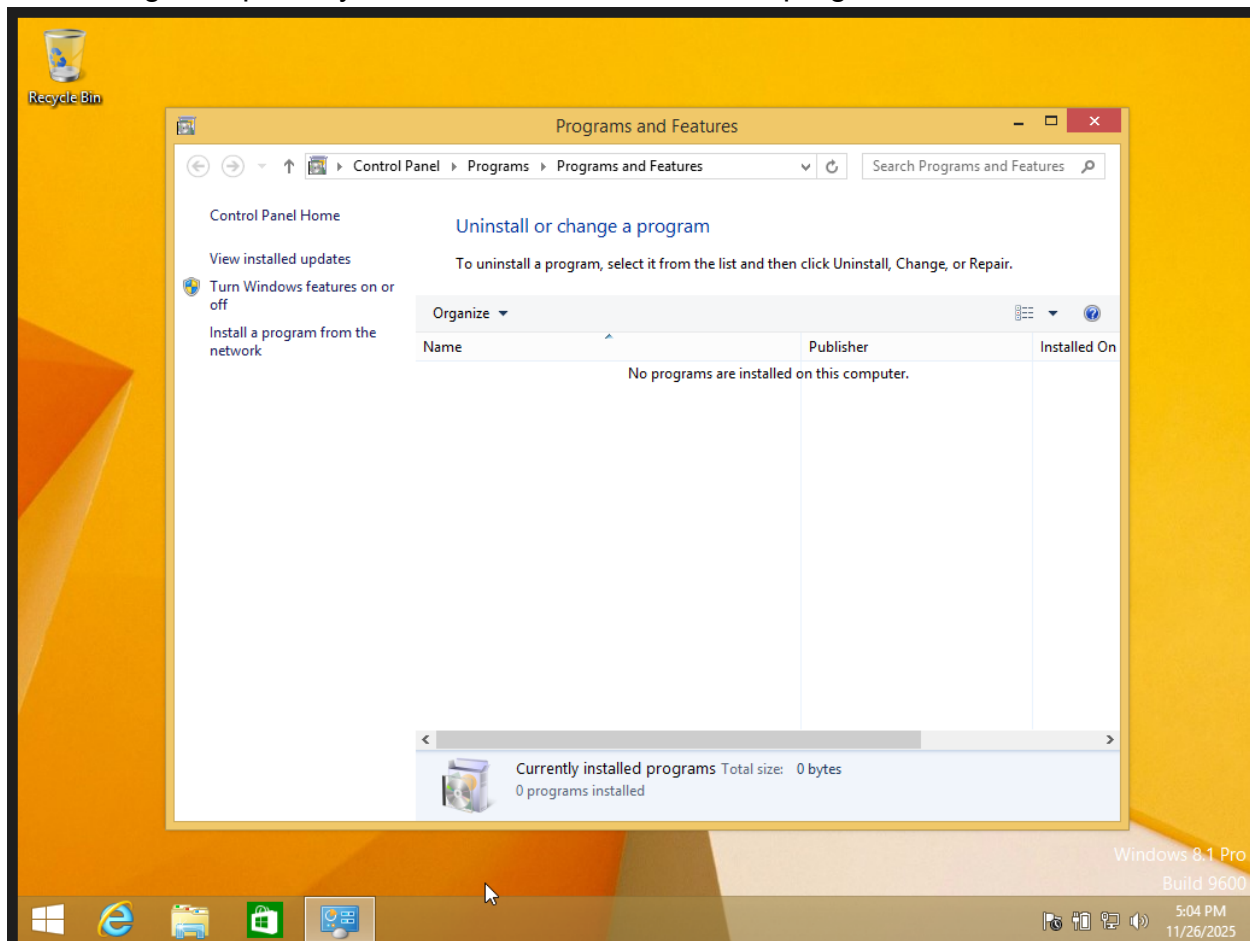
Group policy update on Win 8 A user computer

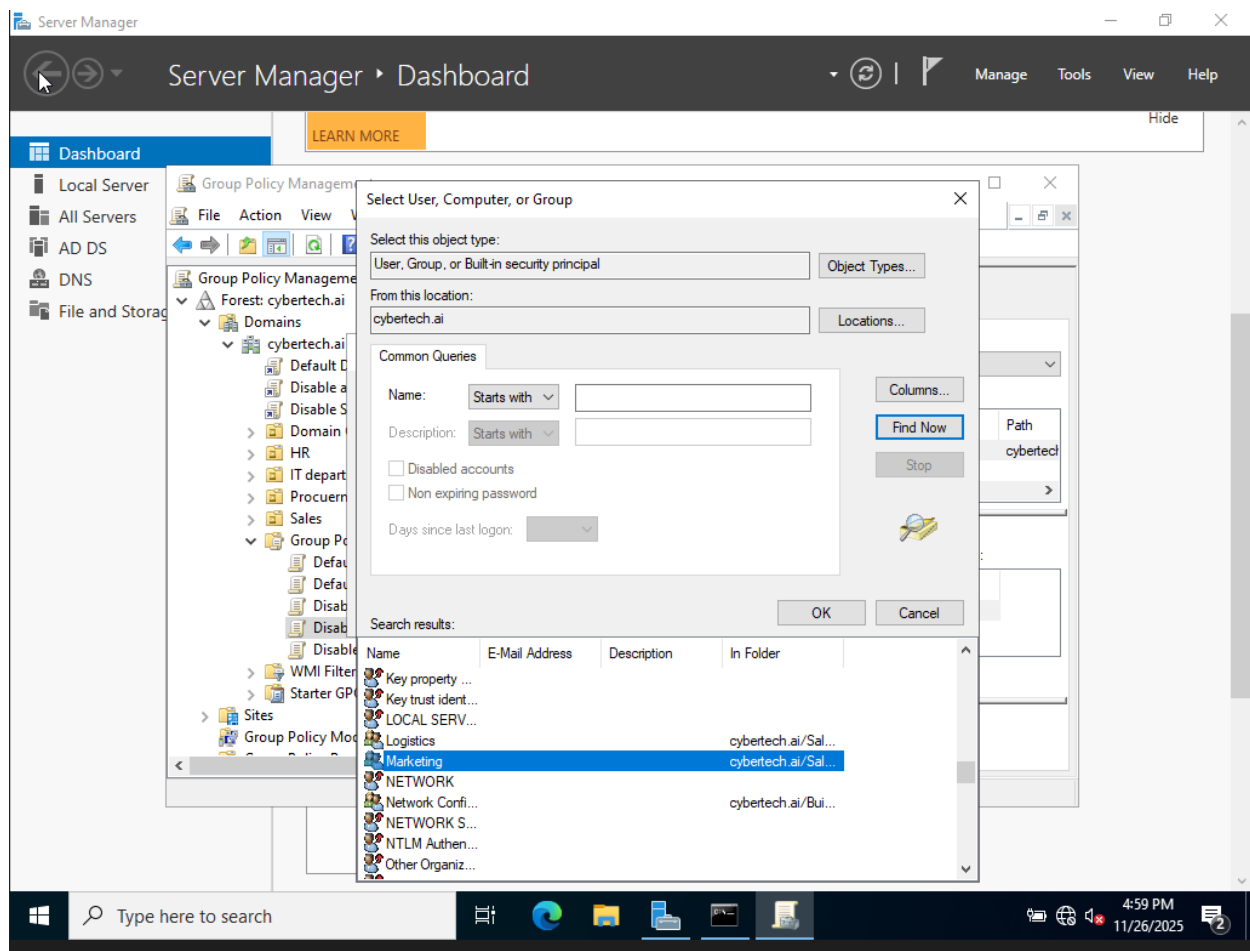Confirming the Group Policy is effective

Group policy management is attached to a user to add or remove programs

Confirming Group Policy is effective for add or remove program

Group Policy Management for marketing department

Group Policy Management for marketing2

Group Policy update for policy