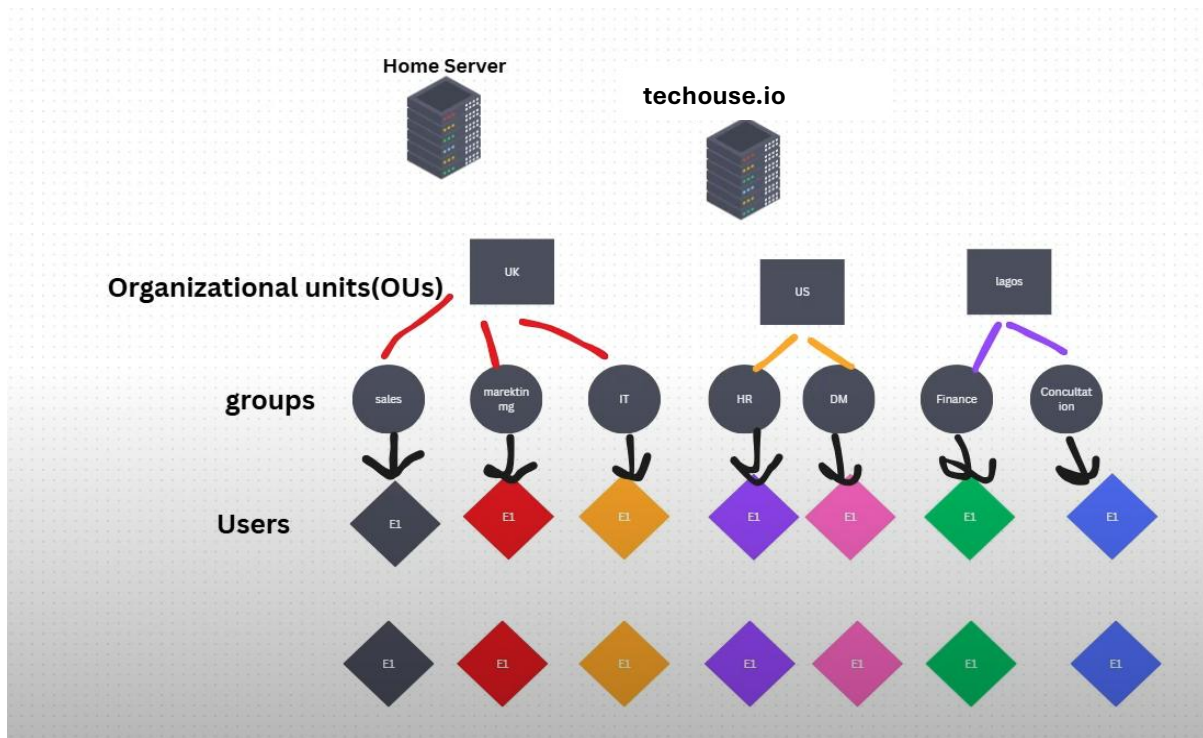
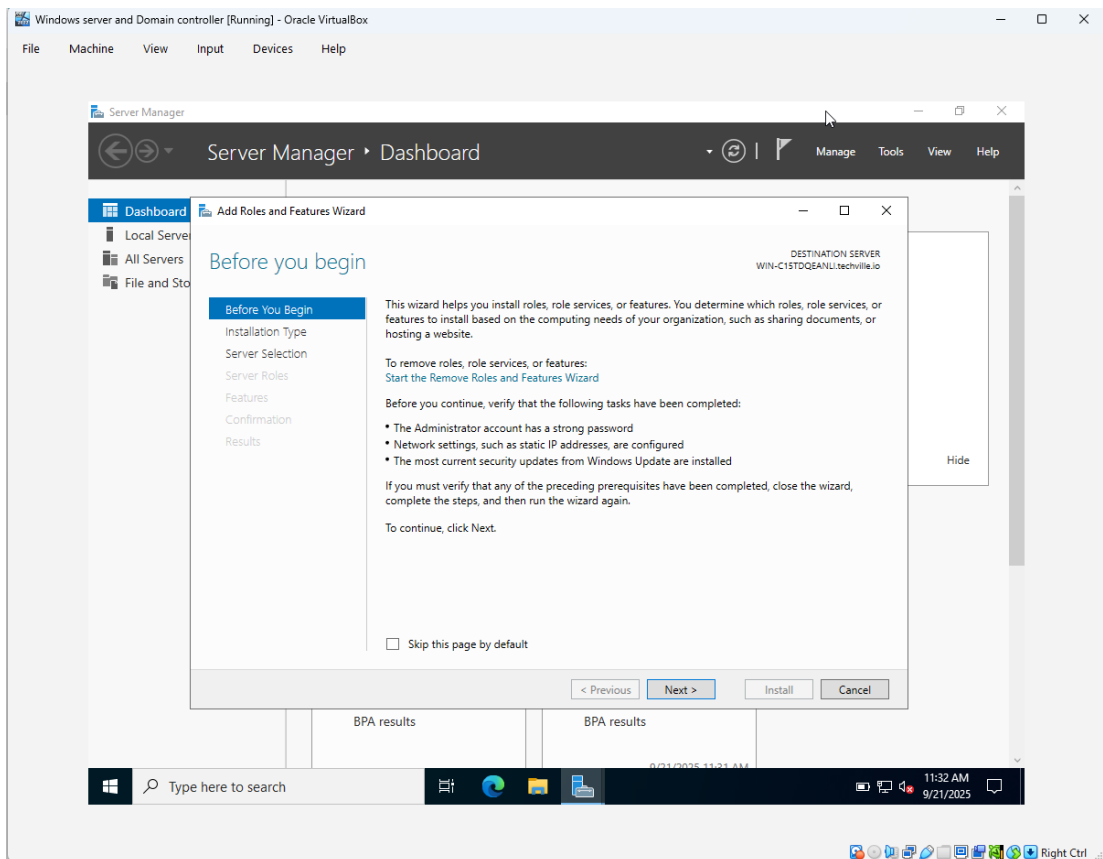
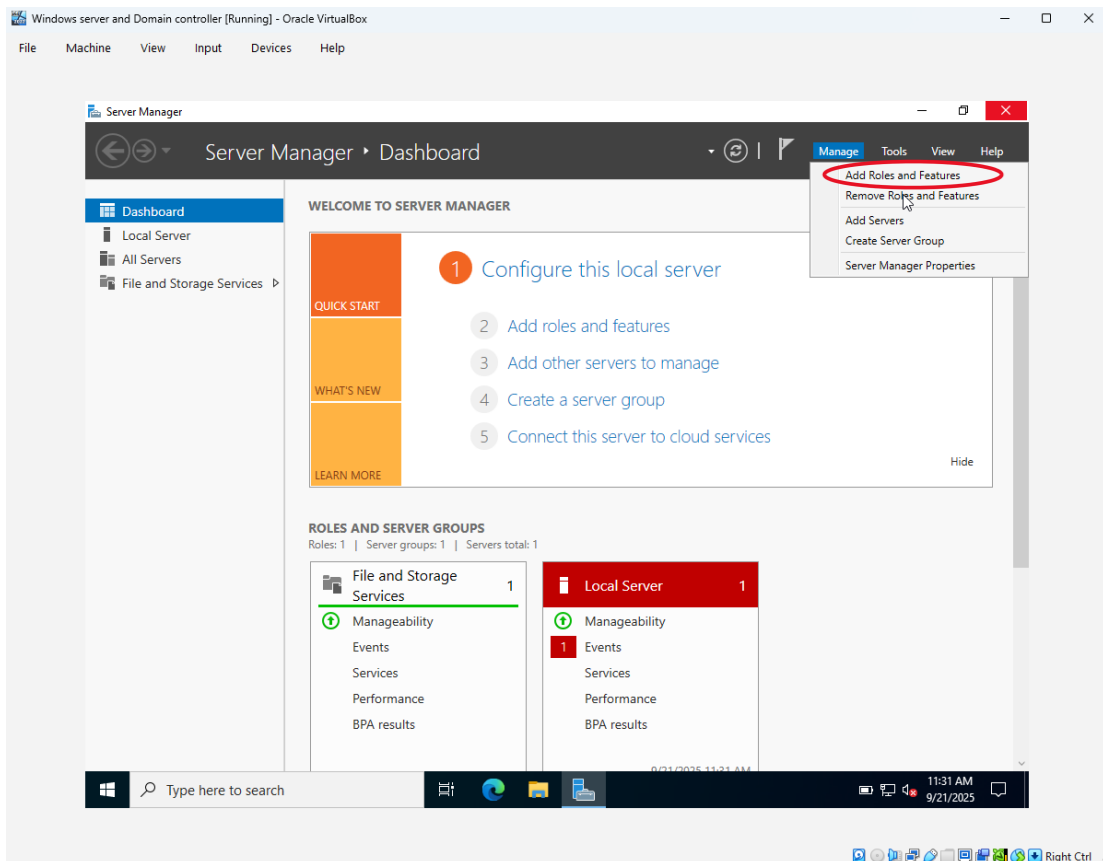
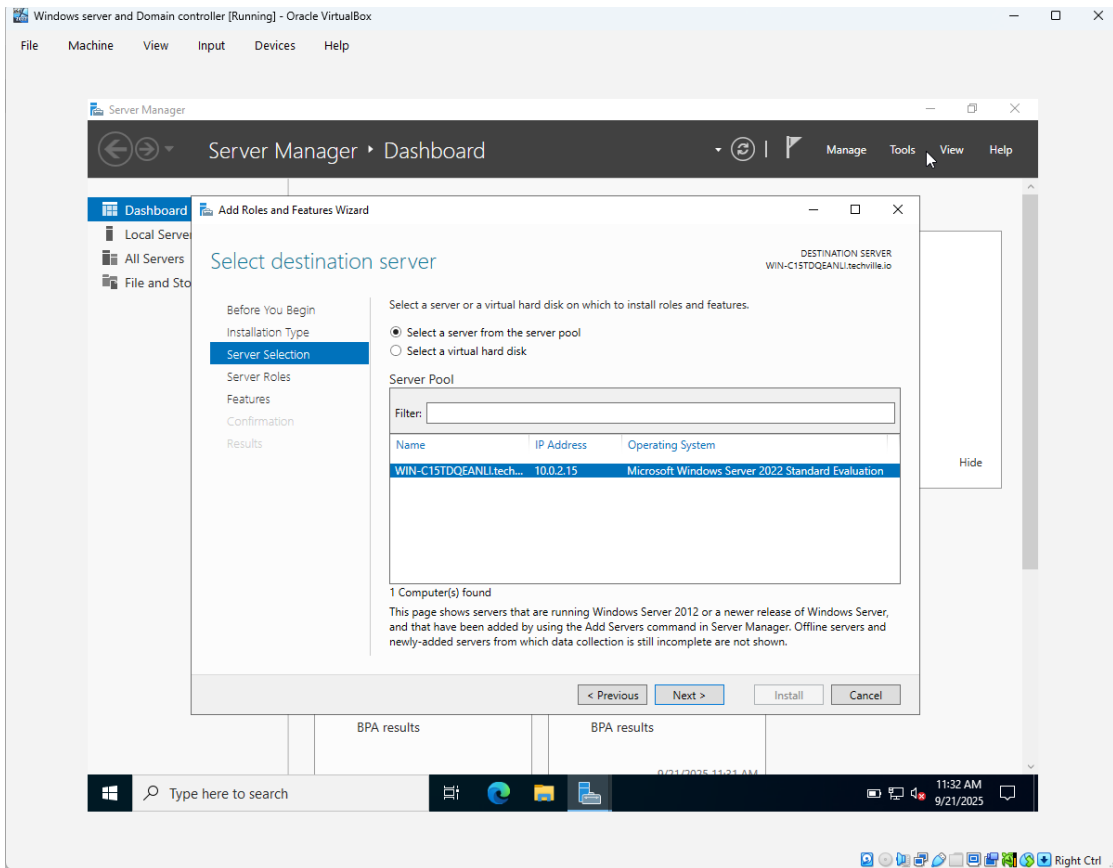
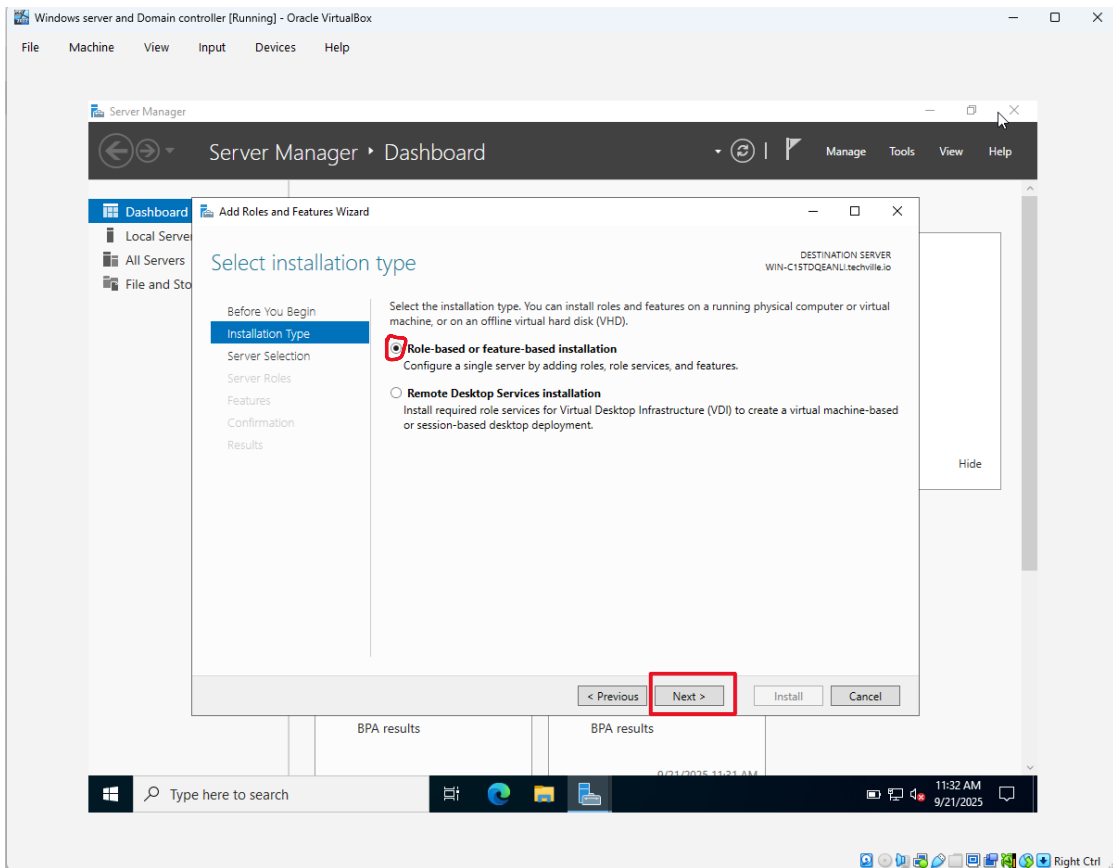


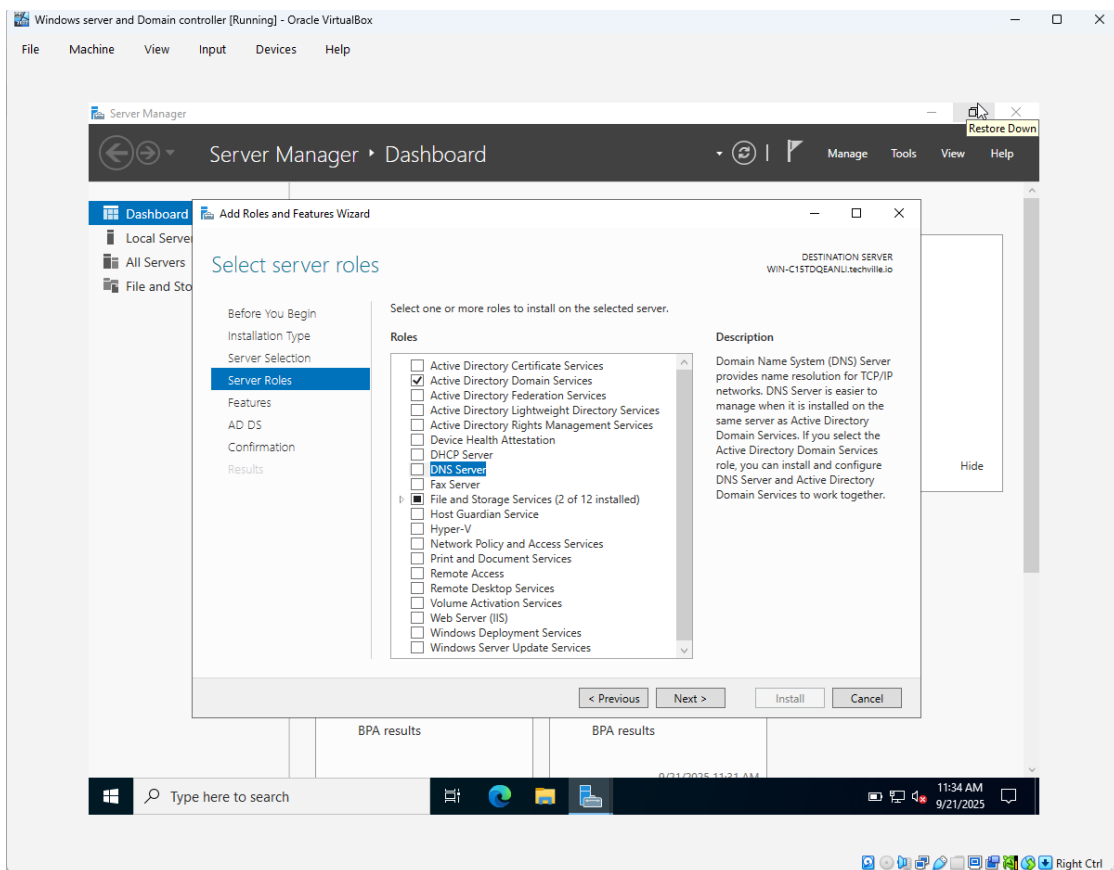
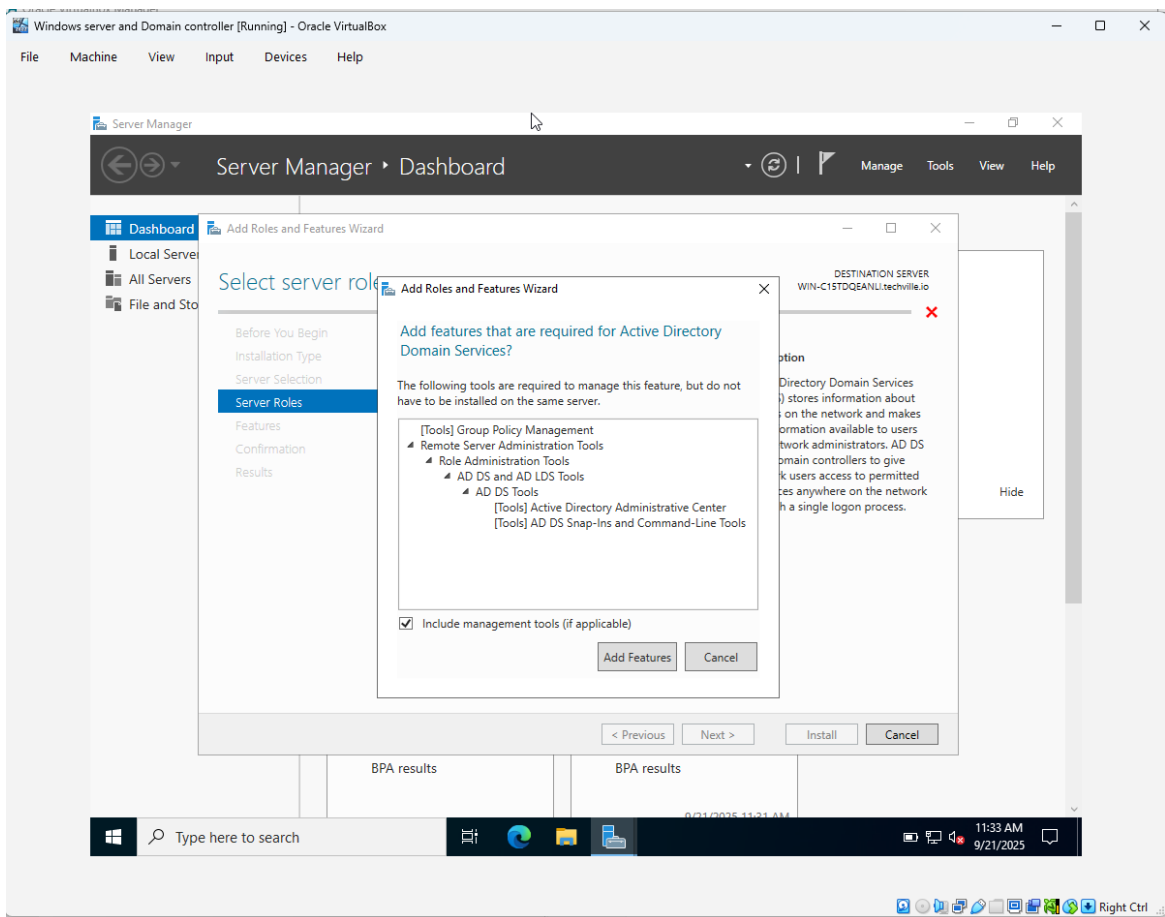
IDENTITY AND ACCESS MANAGEMENT (IAM) ON PREMISES (HOMELAB DOCUMENTATION)



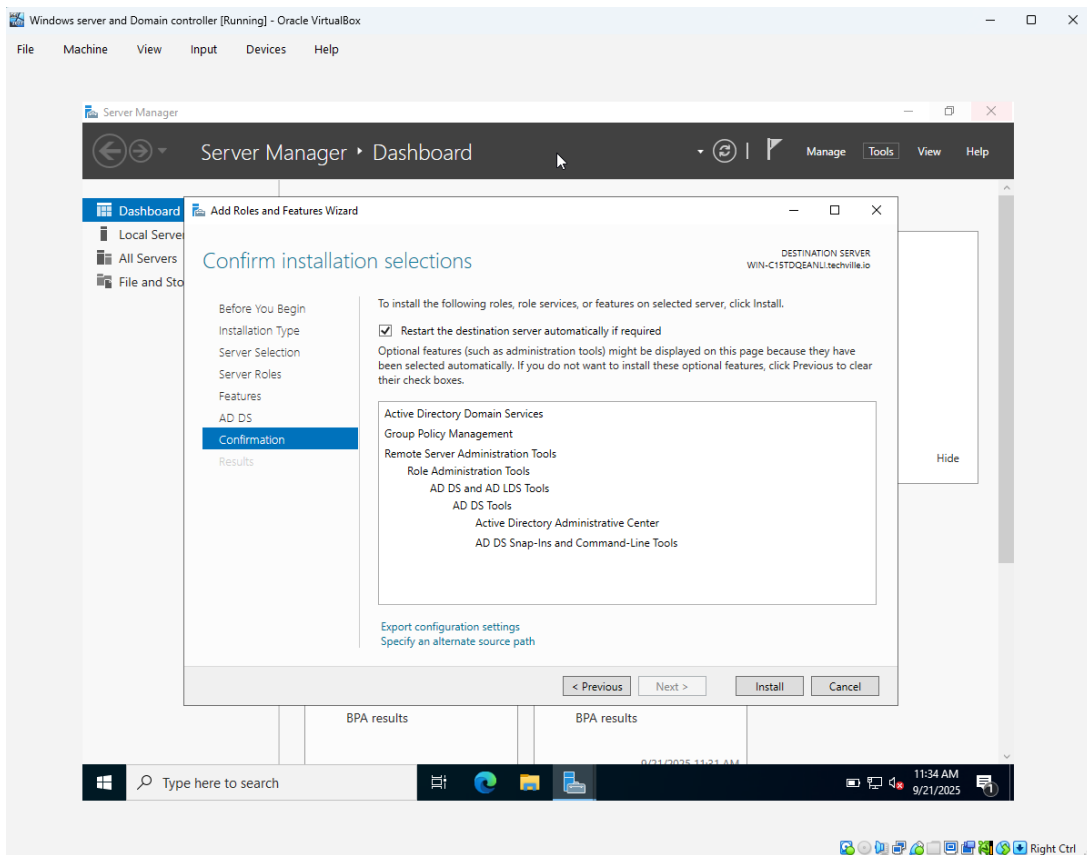
1. Installation of Active Directory Domain Services (AD DS) and Promoting the Server to Domain Controller



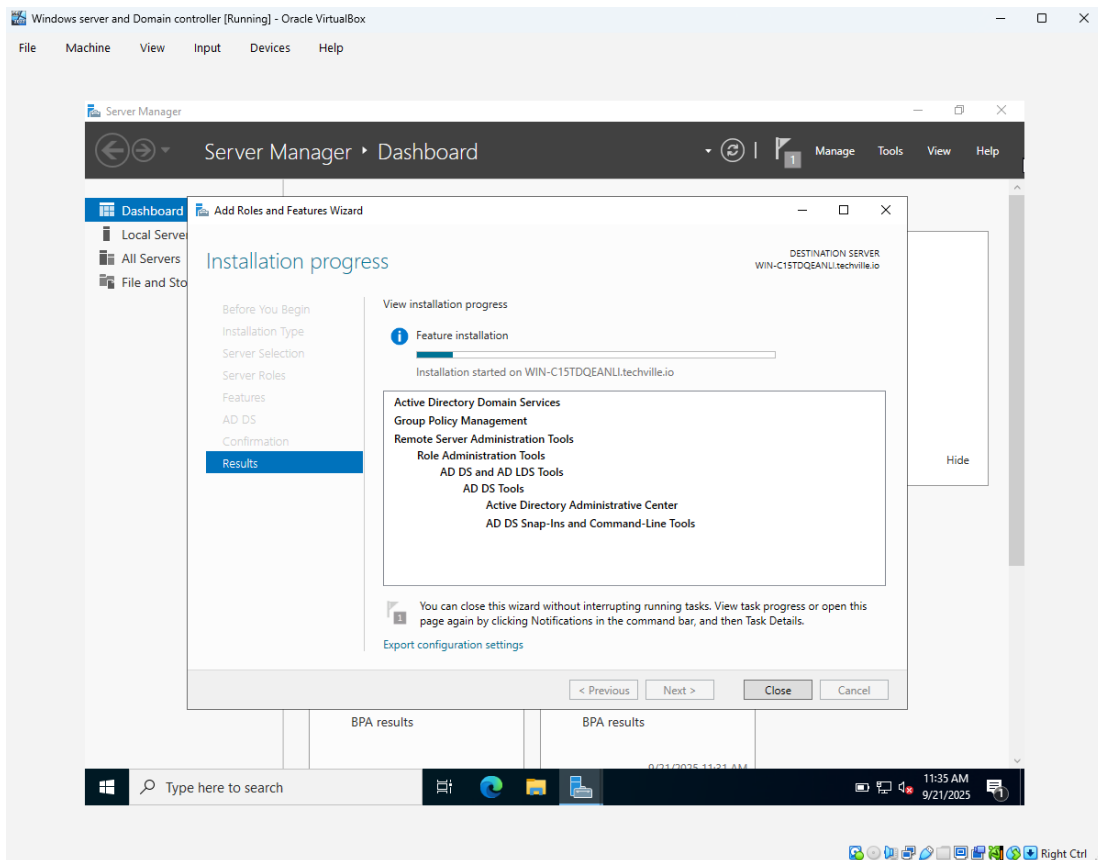




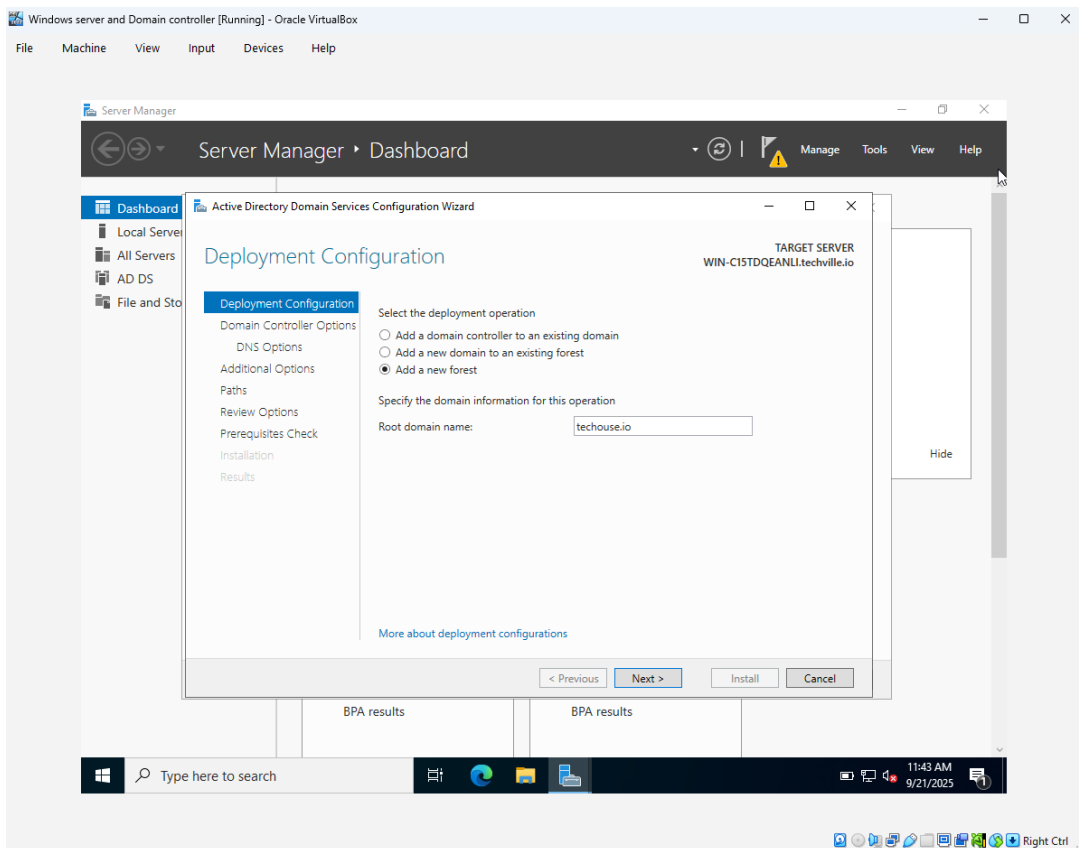
Select Active Directory Domain services to install it



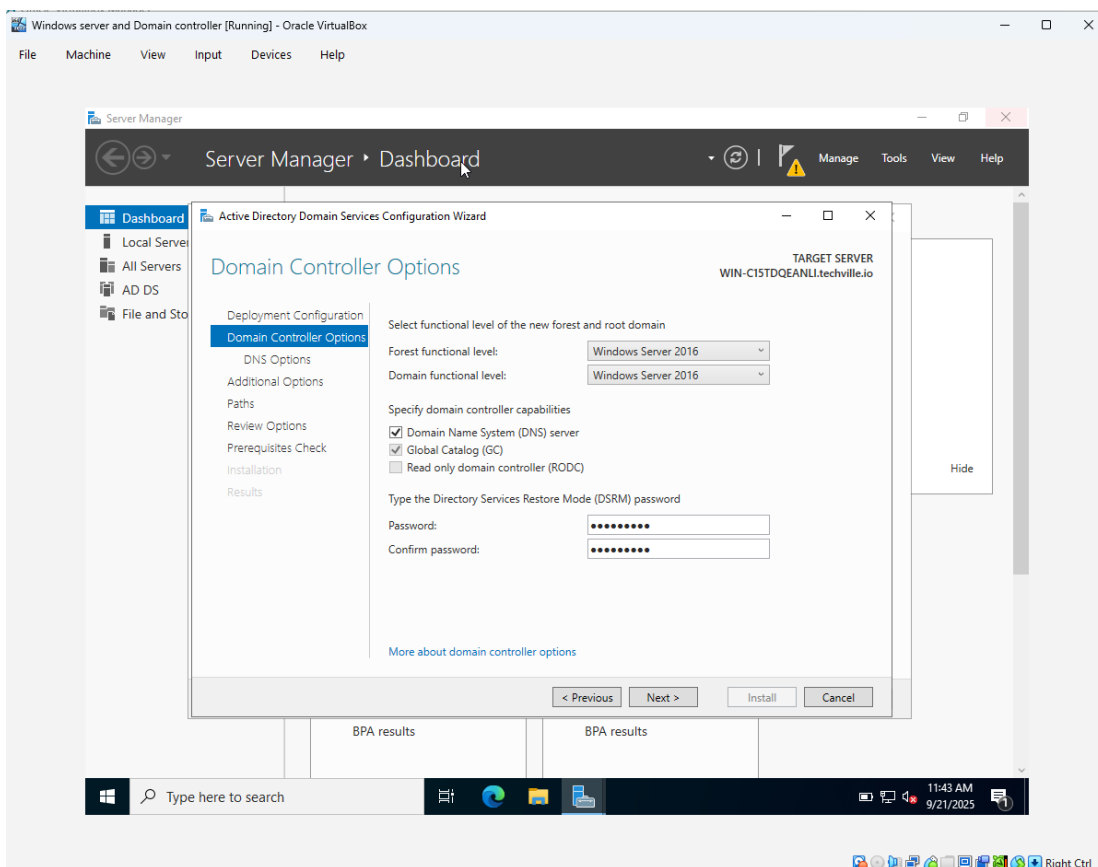
A display of features that will be installed



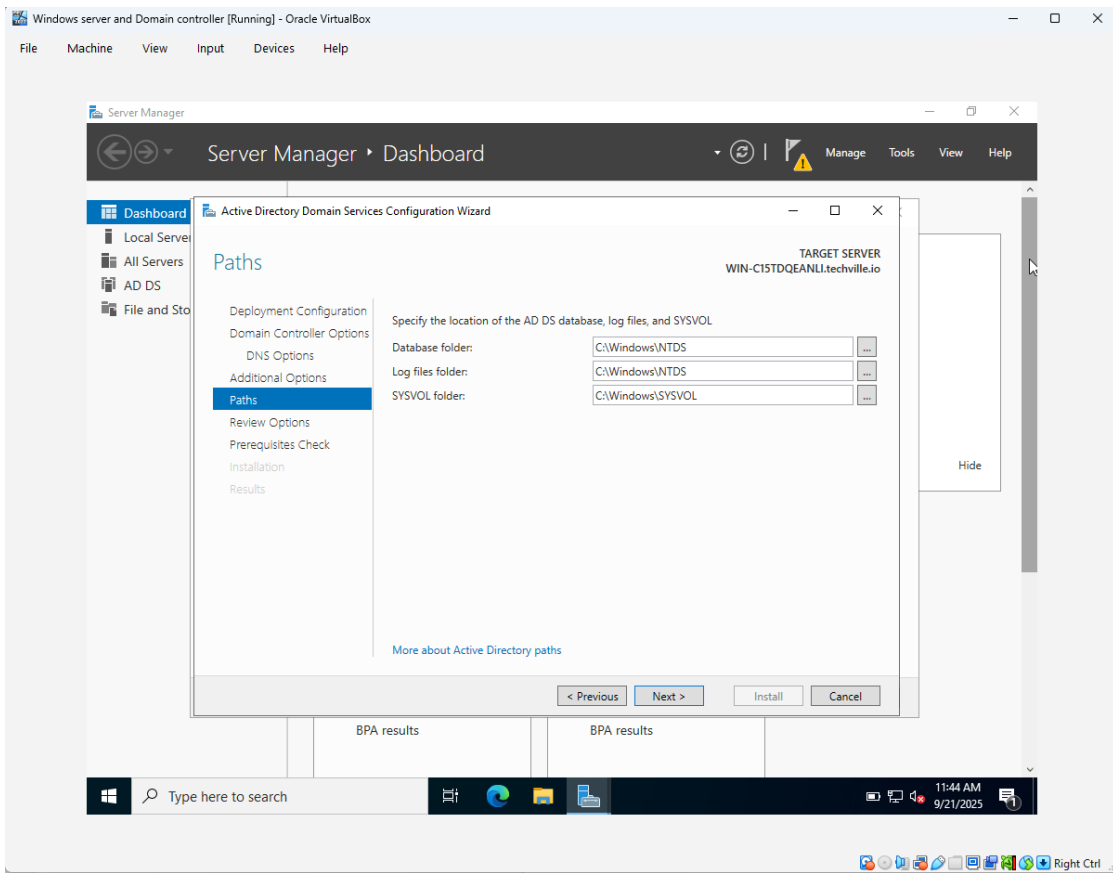
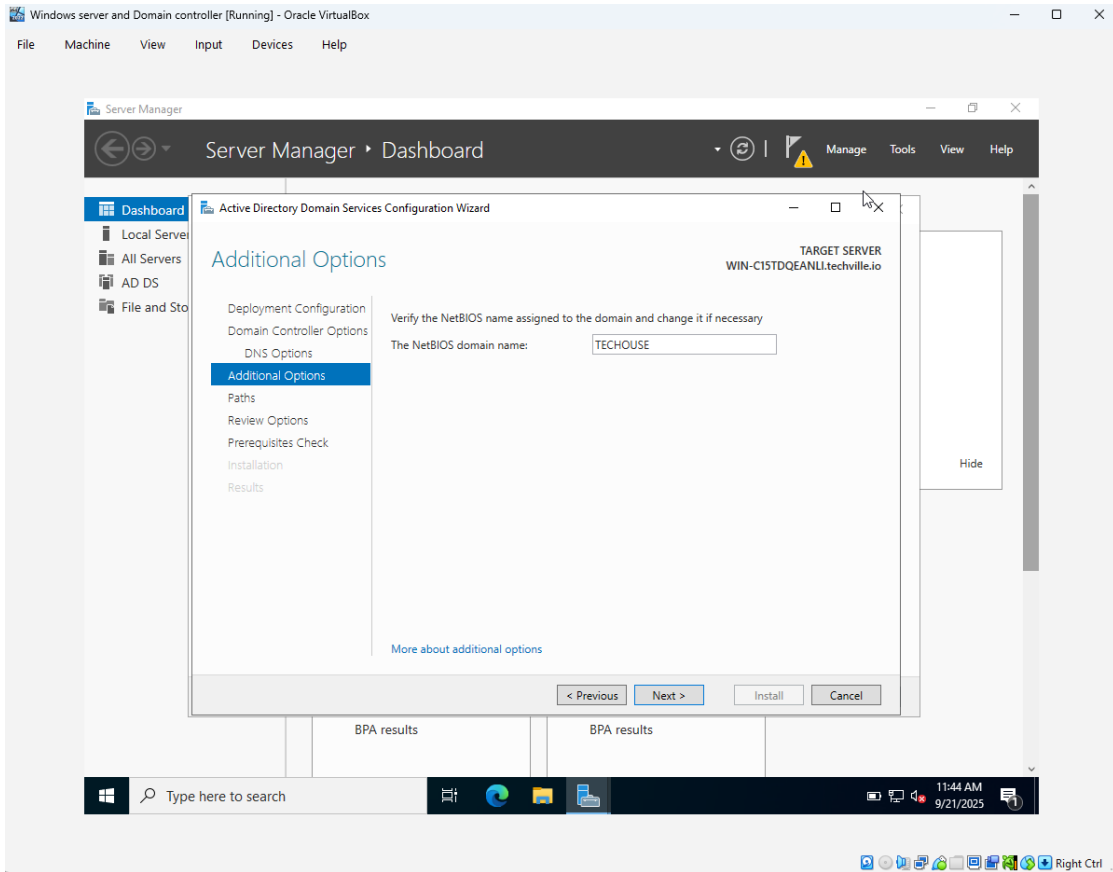
Installation of AD DS in progress.

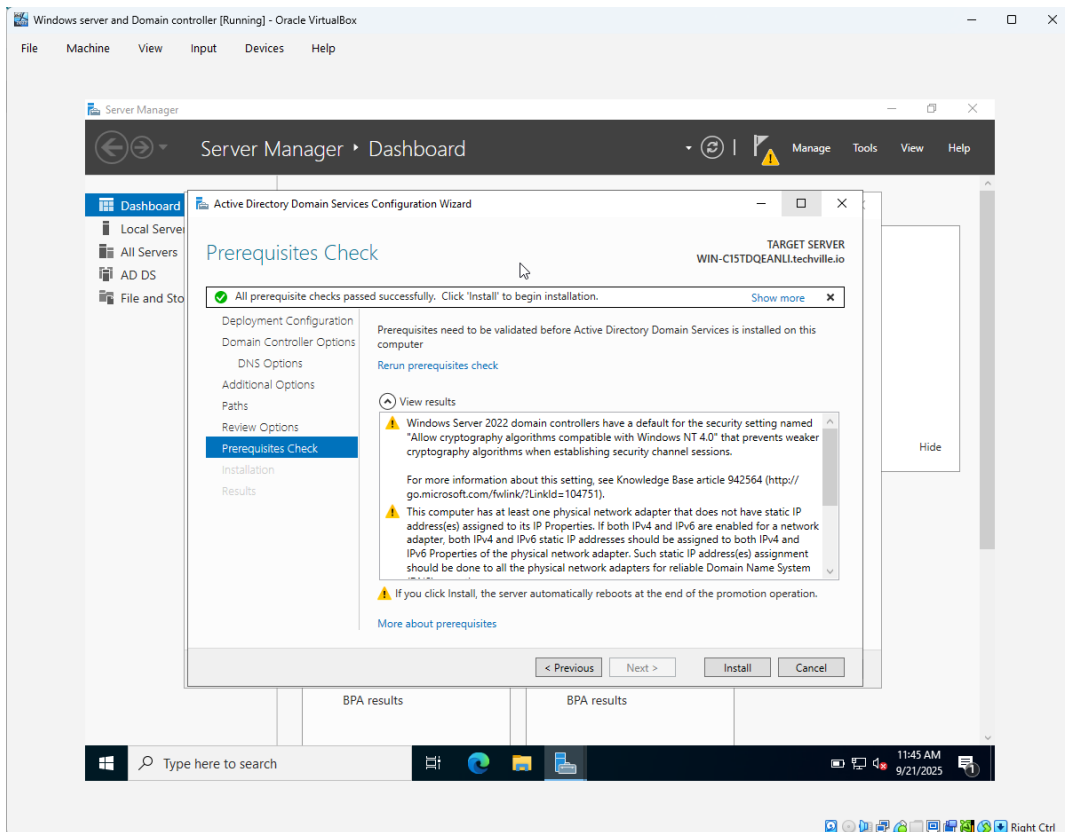


Provide the root domain name

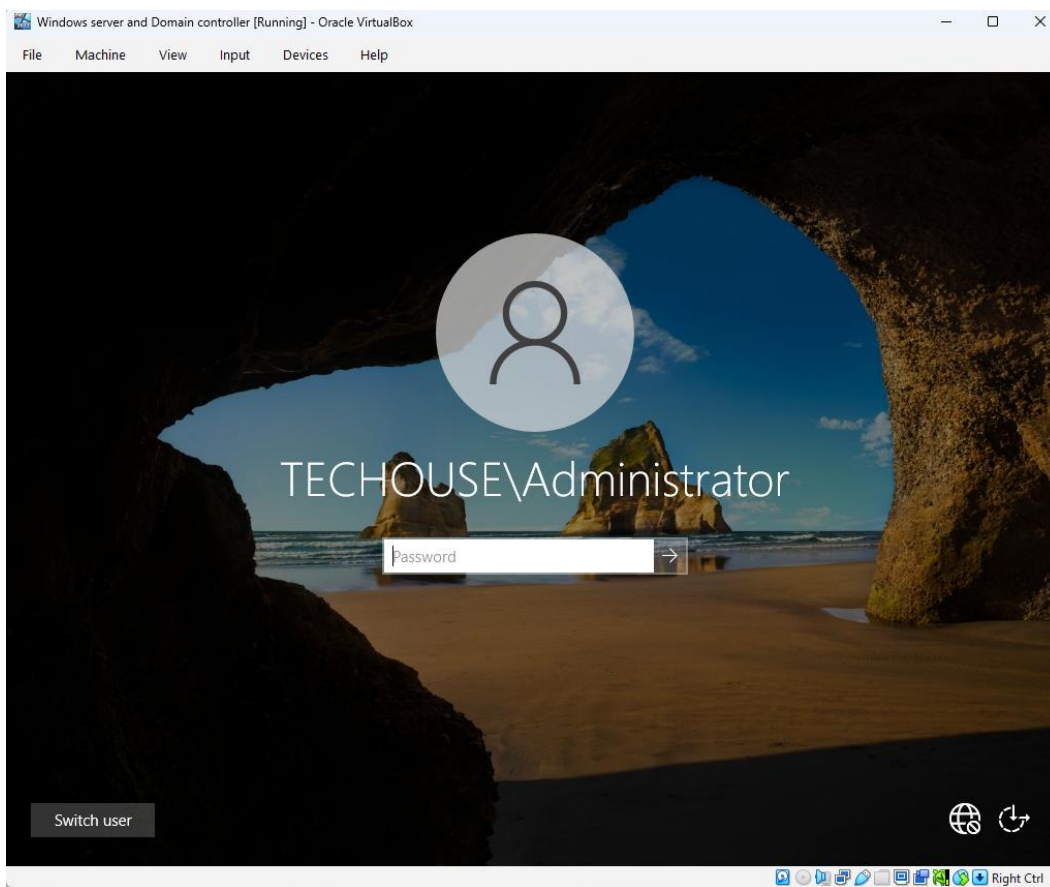


Provide your desired password for the root domain

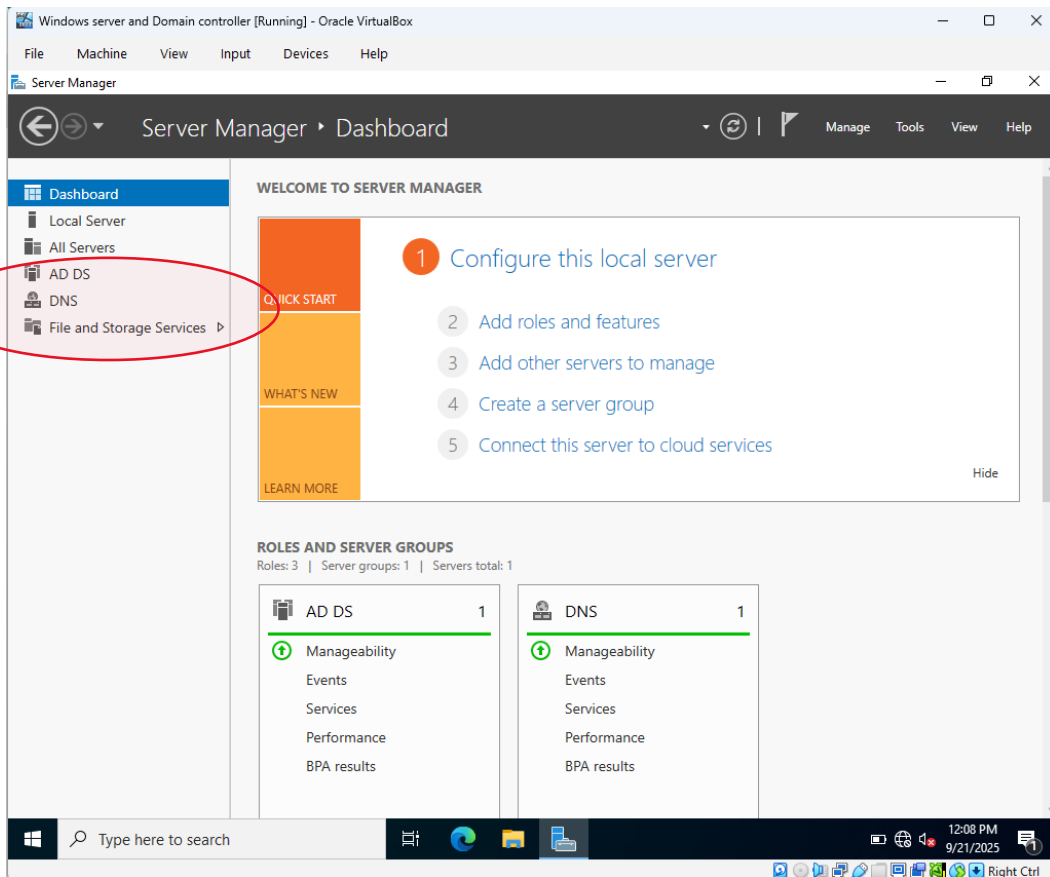




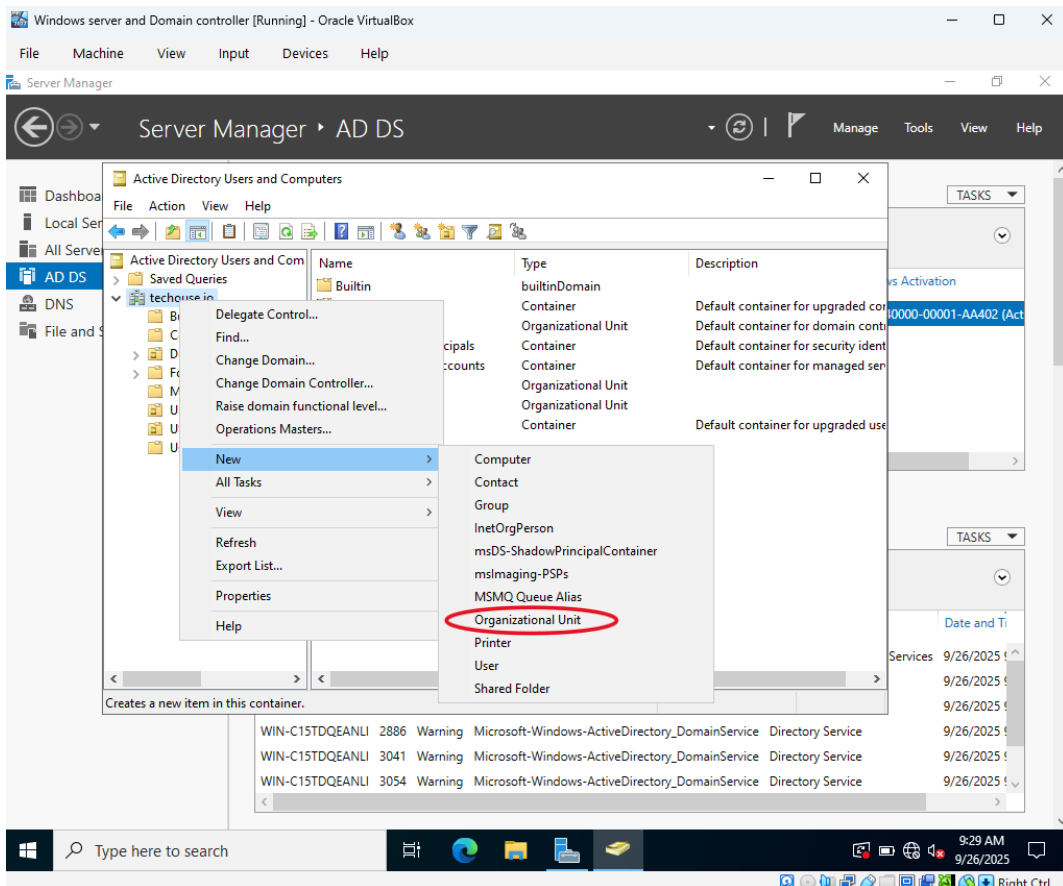
Click on install to proceed

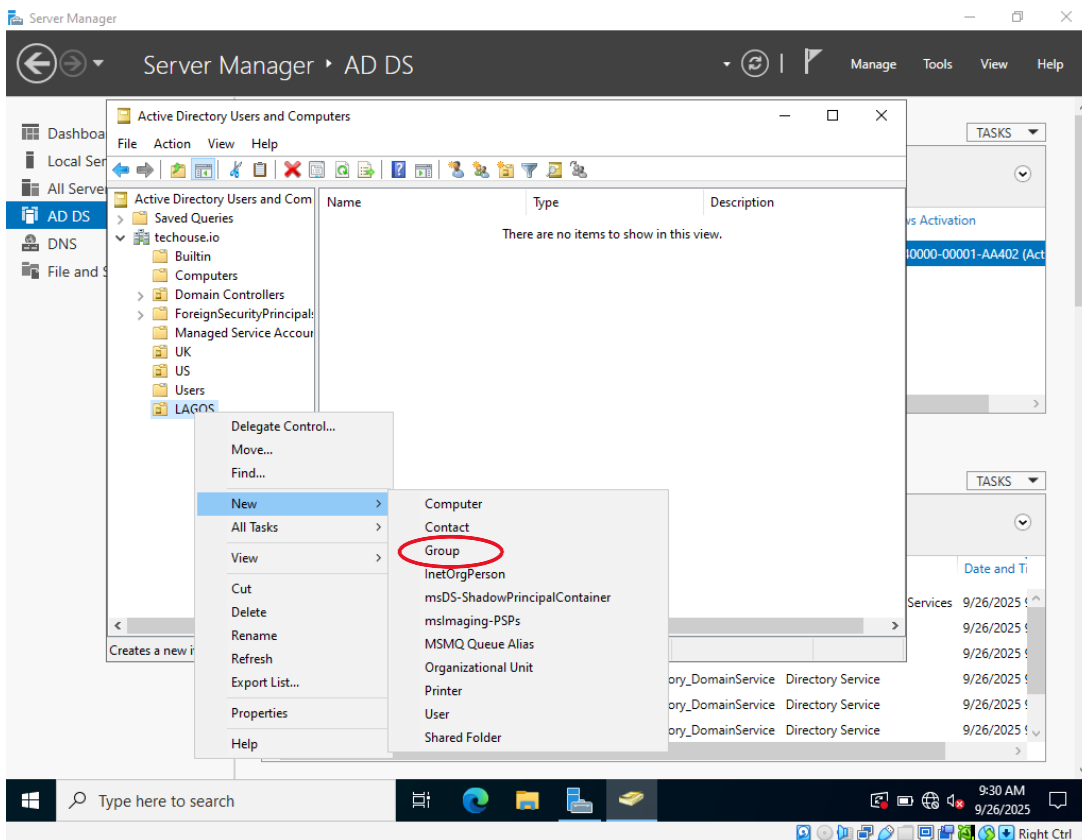
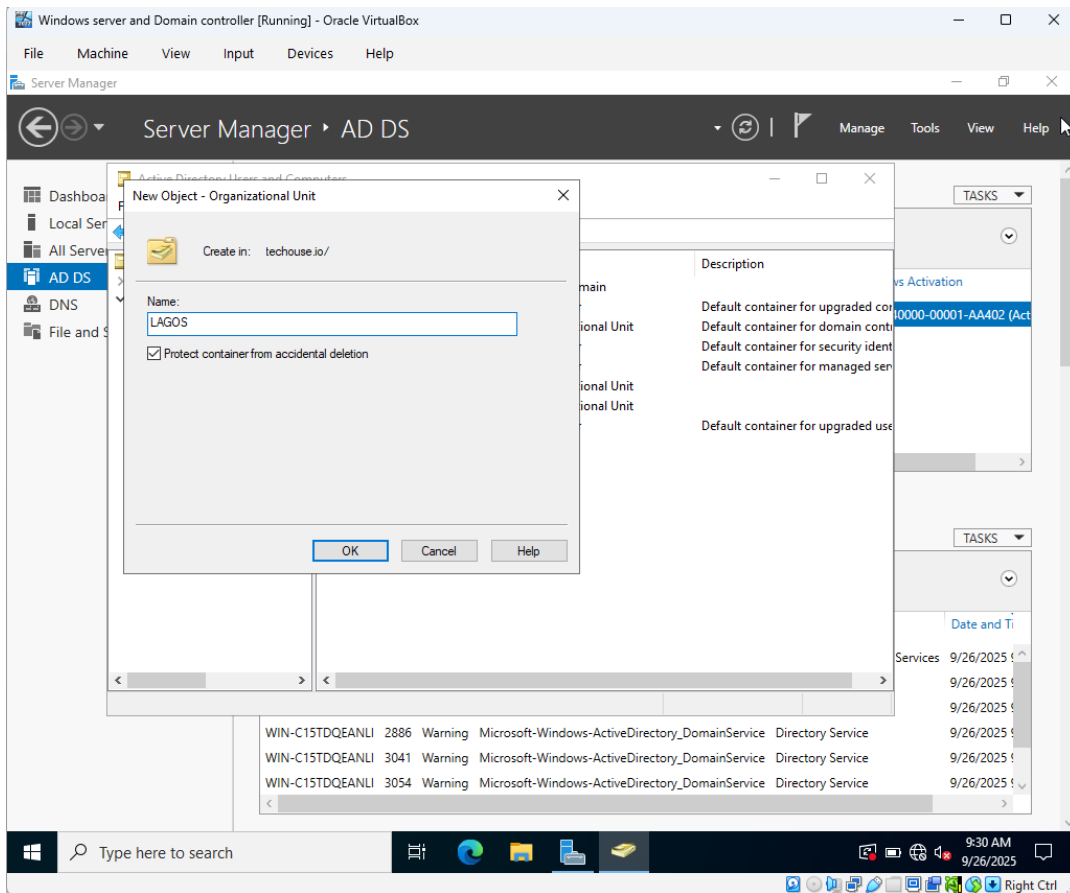


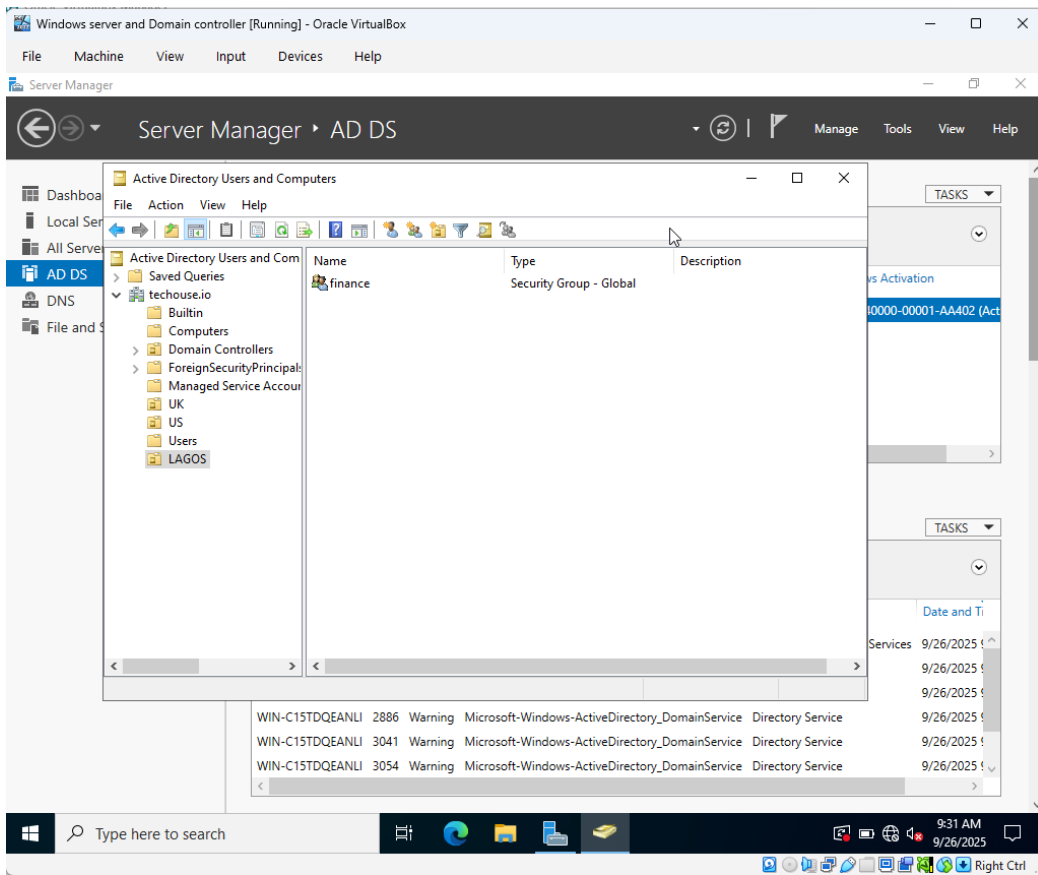
The system restarts and now I can login to the domain as Administrator



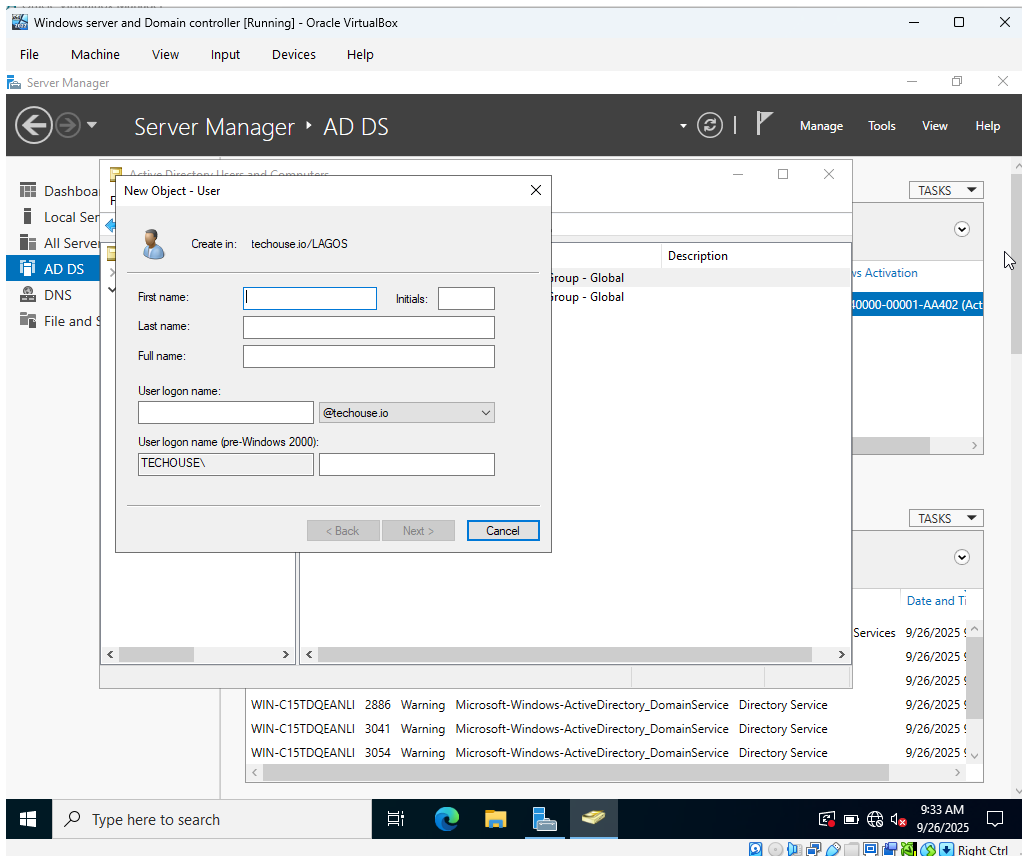
AD DS running. Now I proceed to create OUs, groups and users



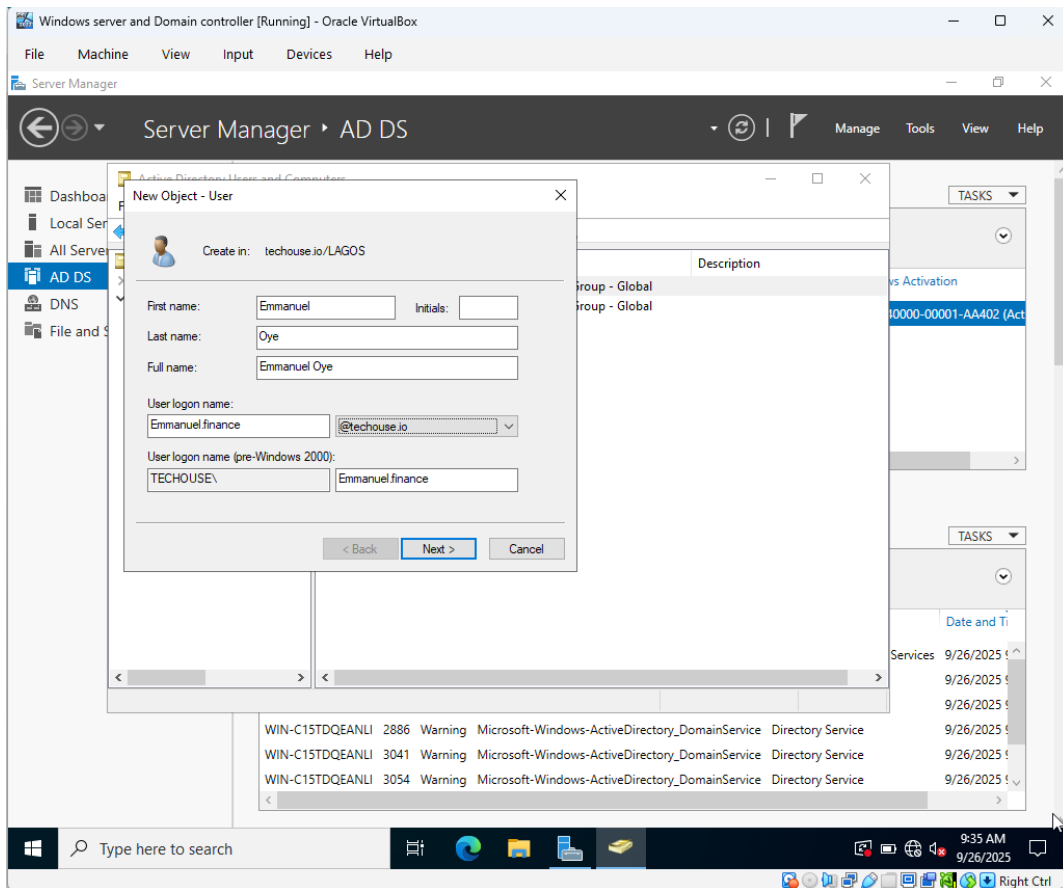




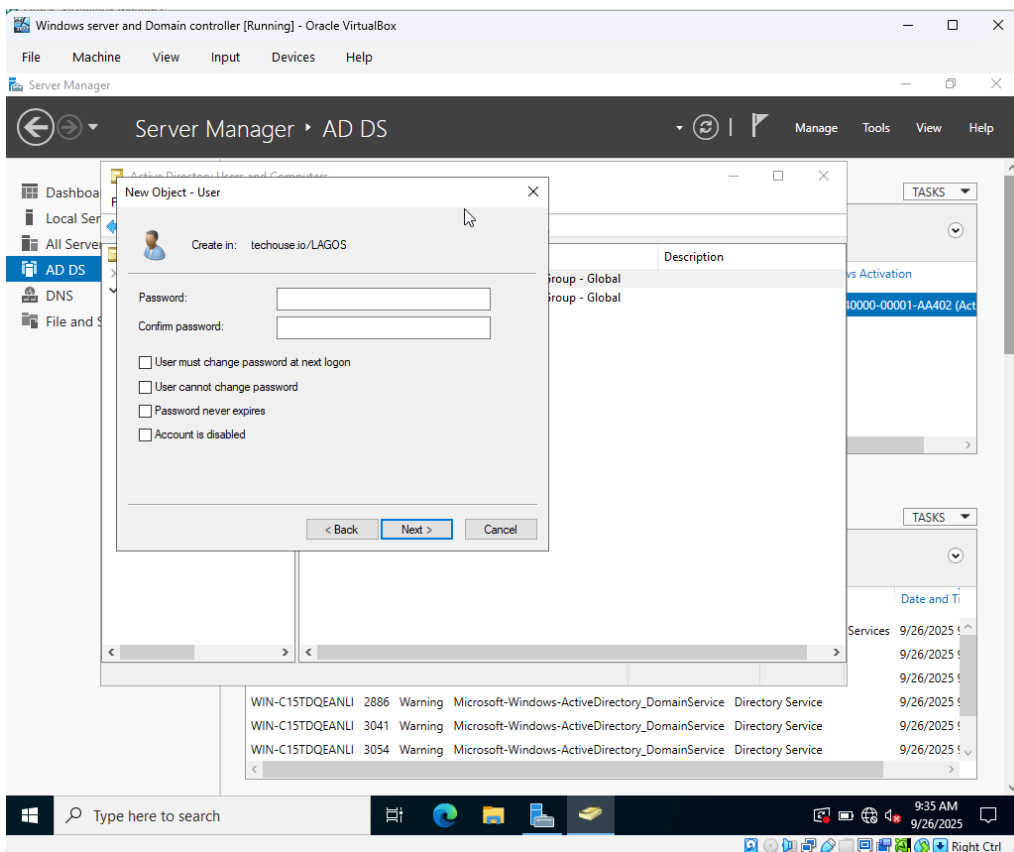
Finance group inside LAGOS organisational unit (same was done for consultation group)



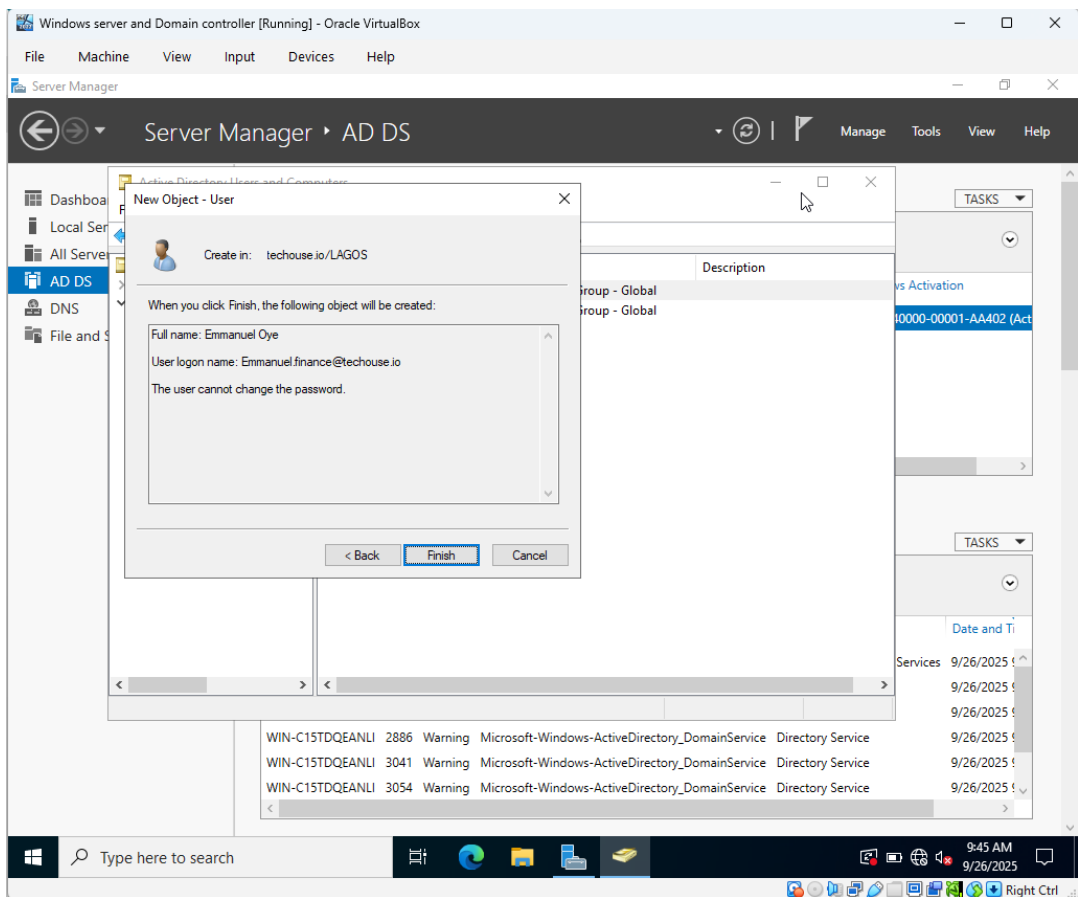
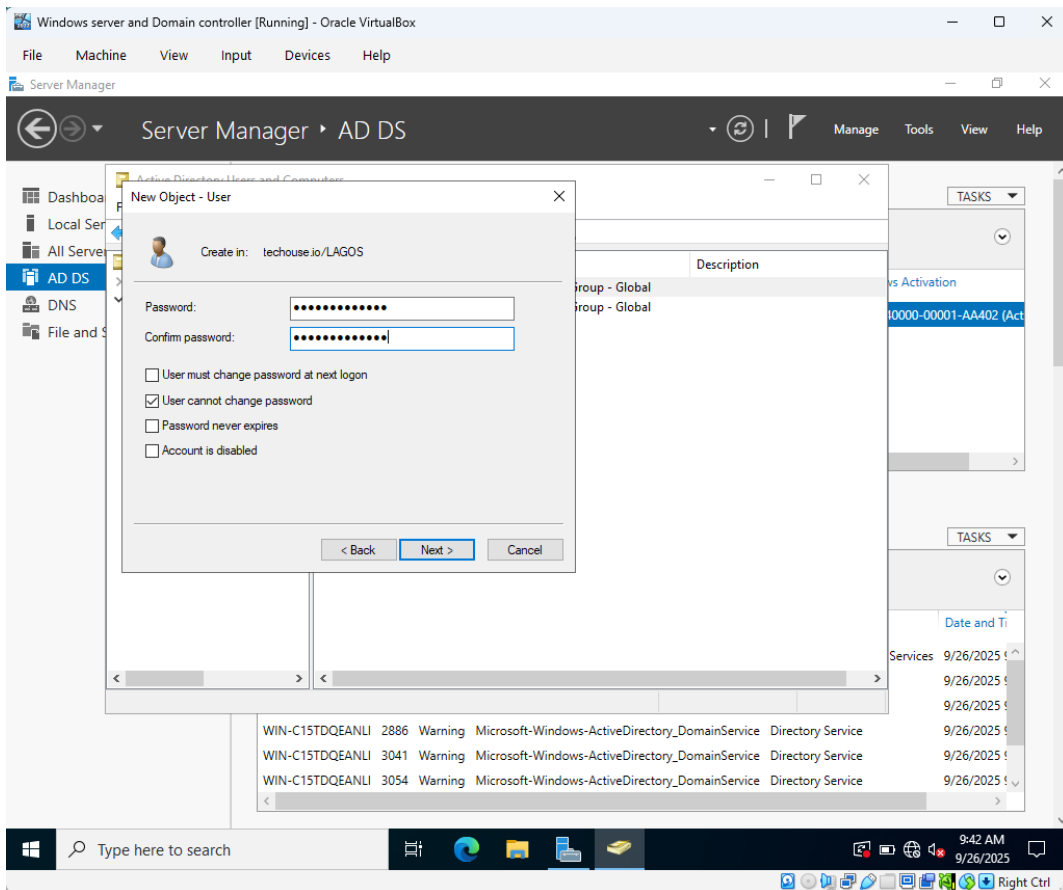
Adding a user to the organisational unit



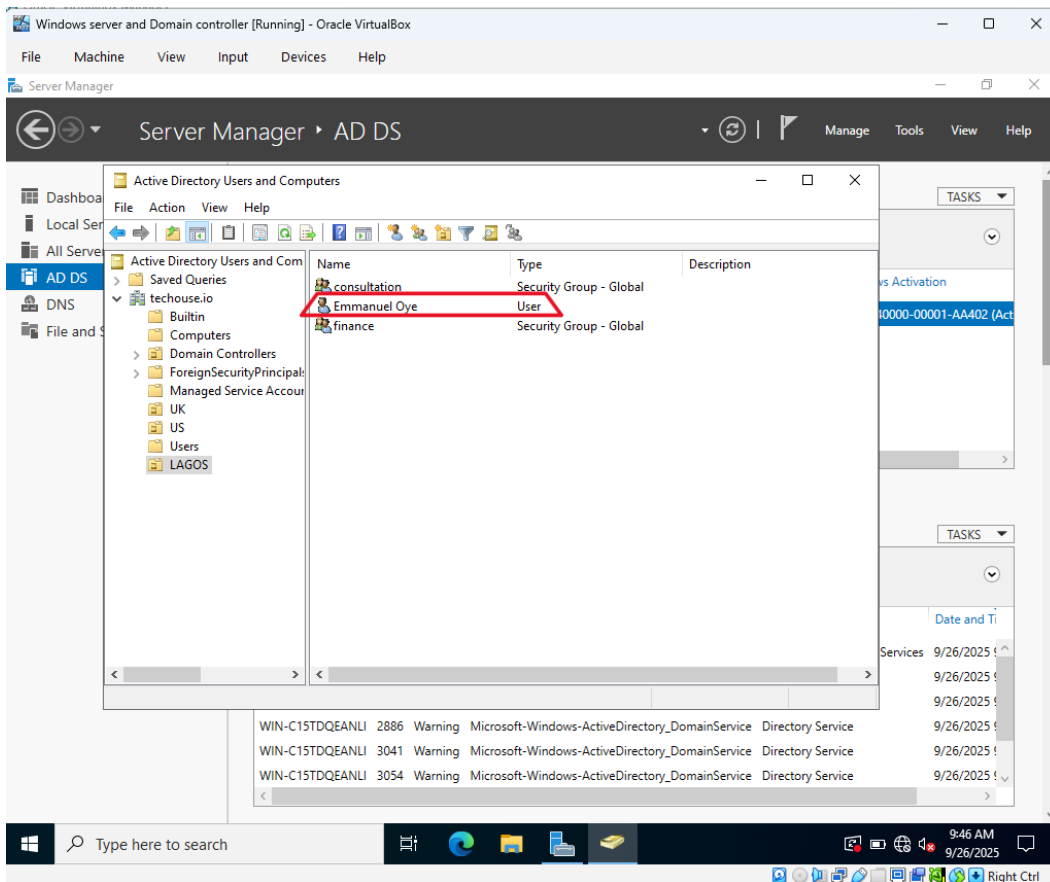
Inserting the user details



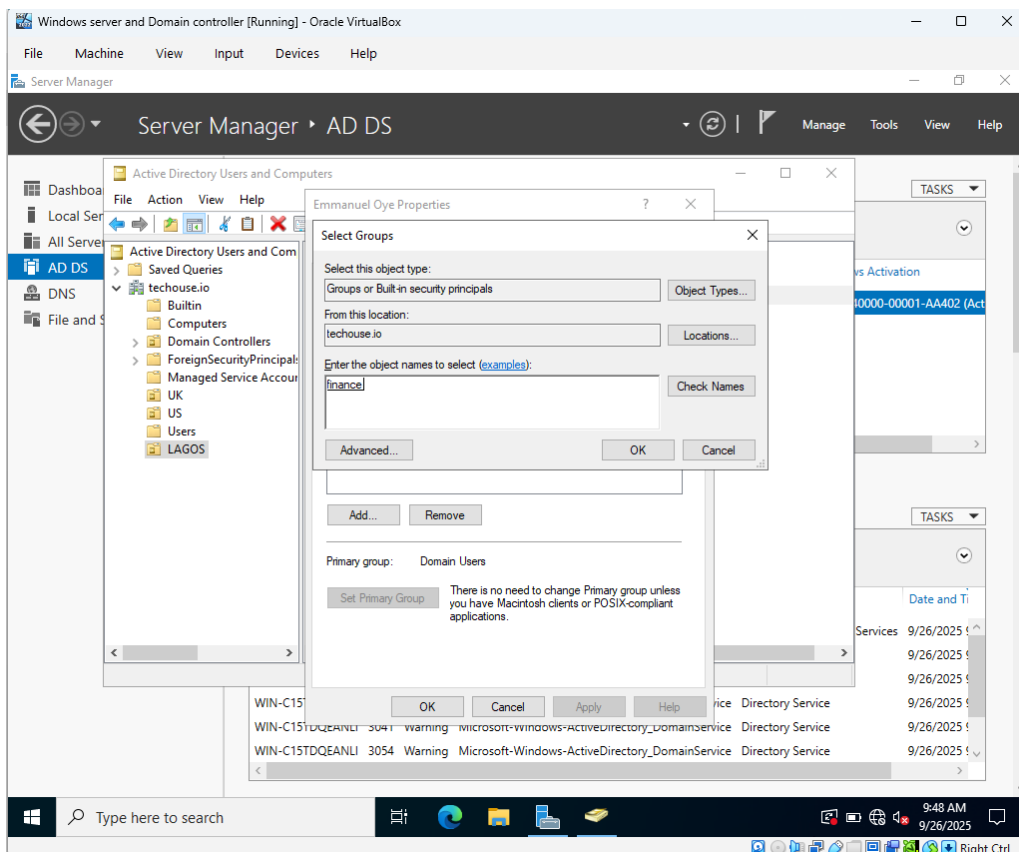
Modify password settings for the user



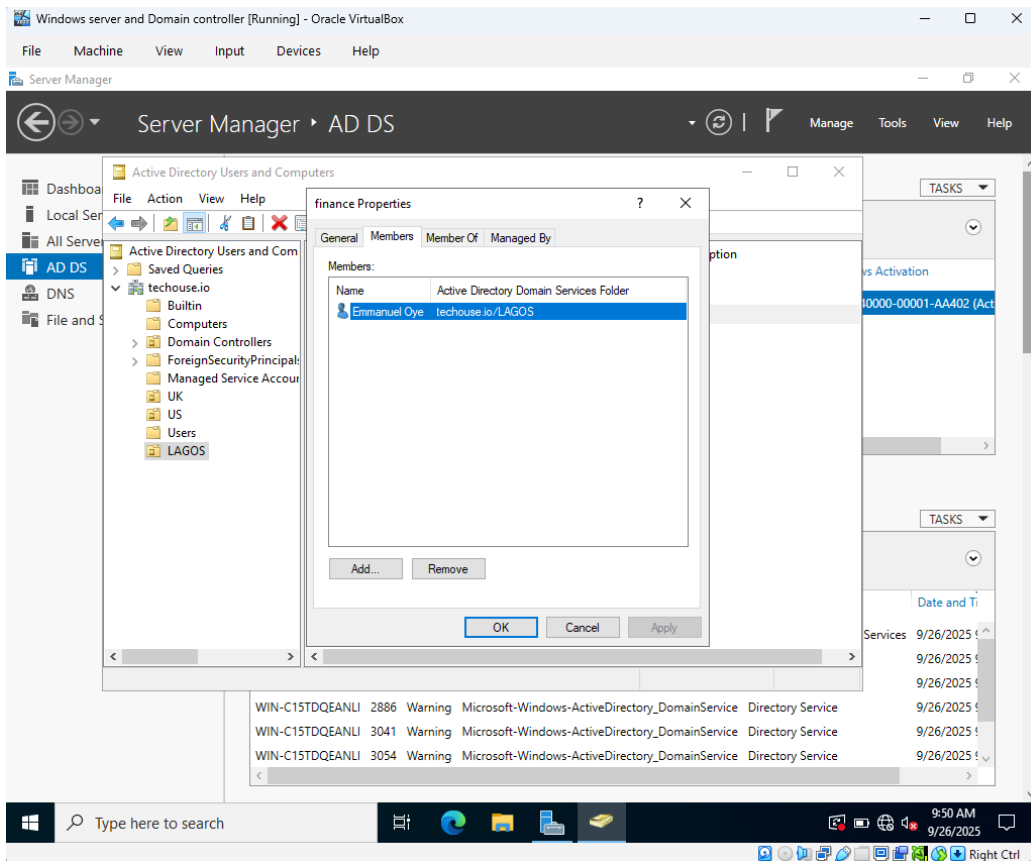
User created



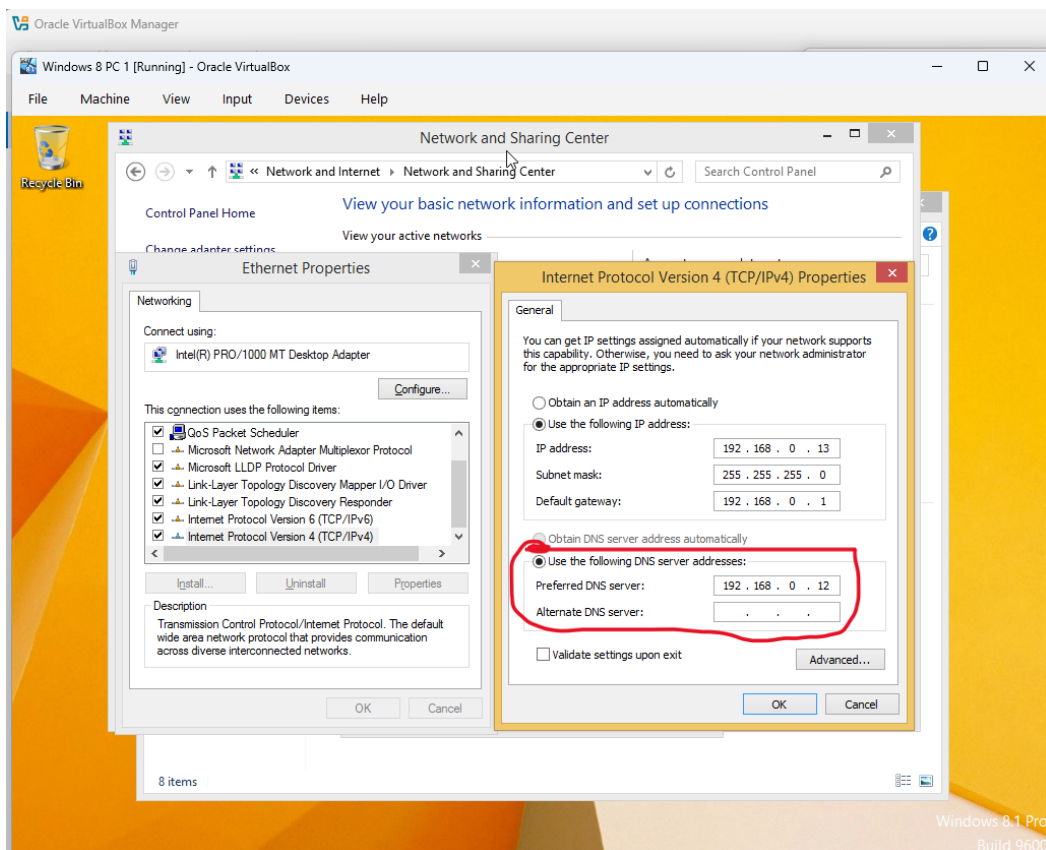
The created user in the organisational unit



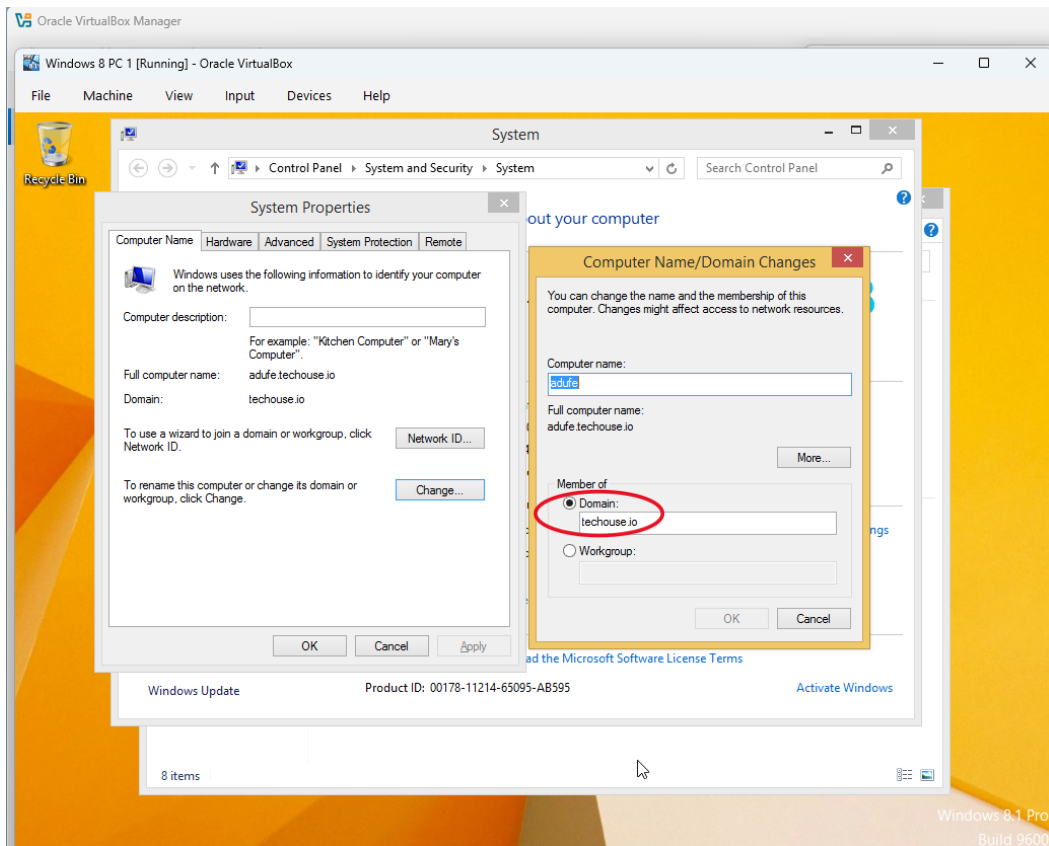
Adding the new user (Emmanuel Oye) to the finance group



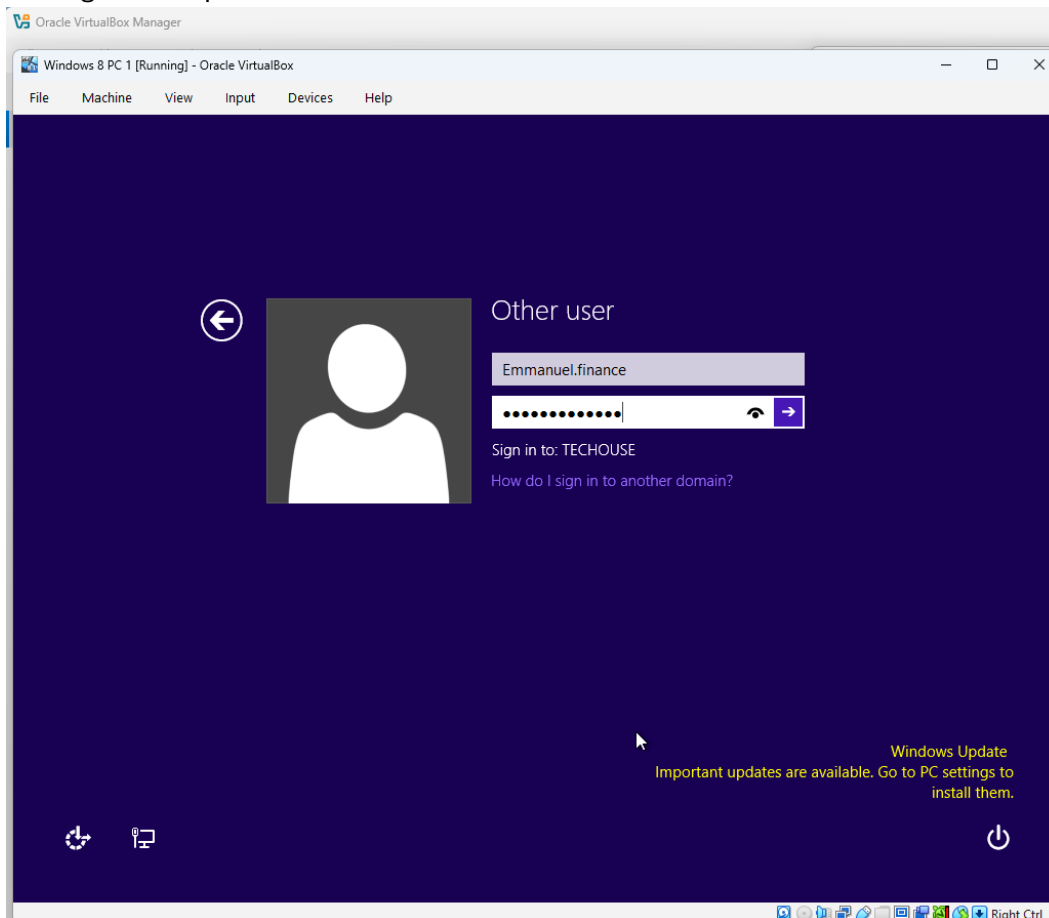
Emmanuel Oye now in the finance group (other users were also created and added to their respective groups)



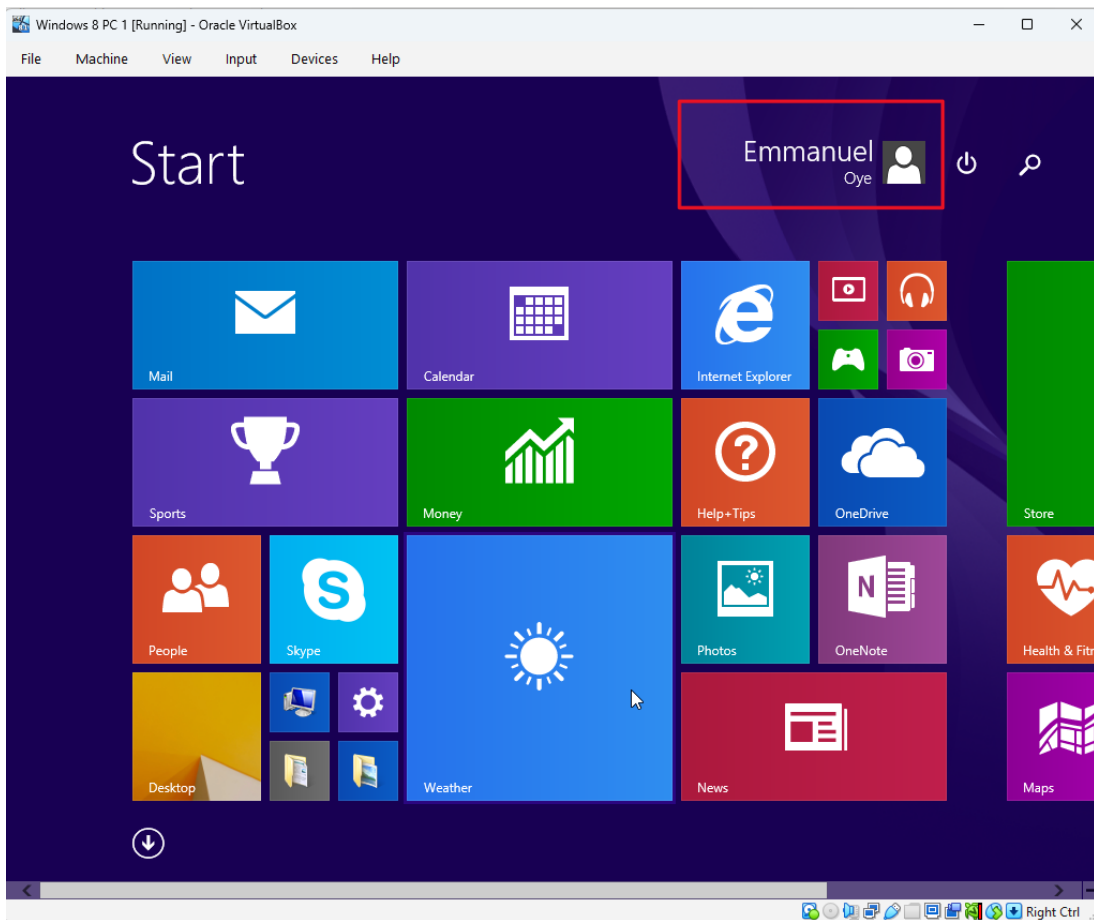
Change the DNS of the user PC to the IP of the server



Adding the computer to the domain

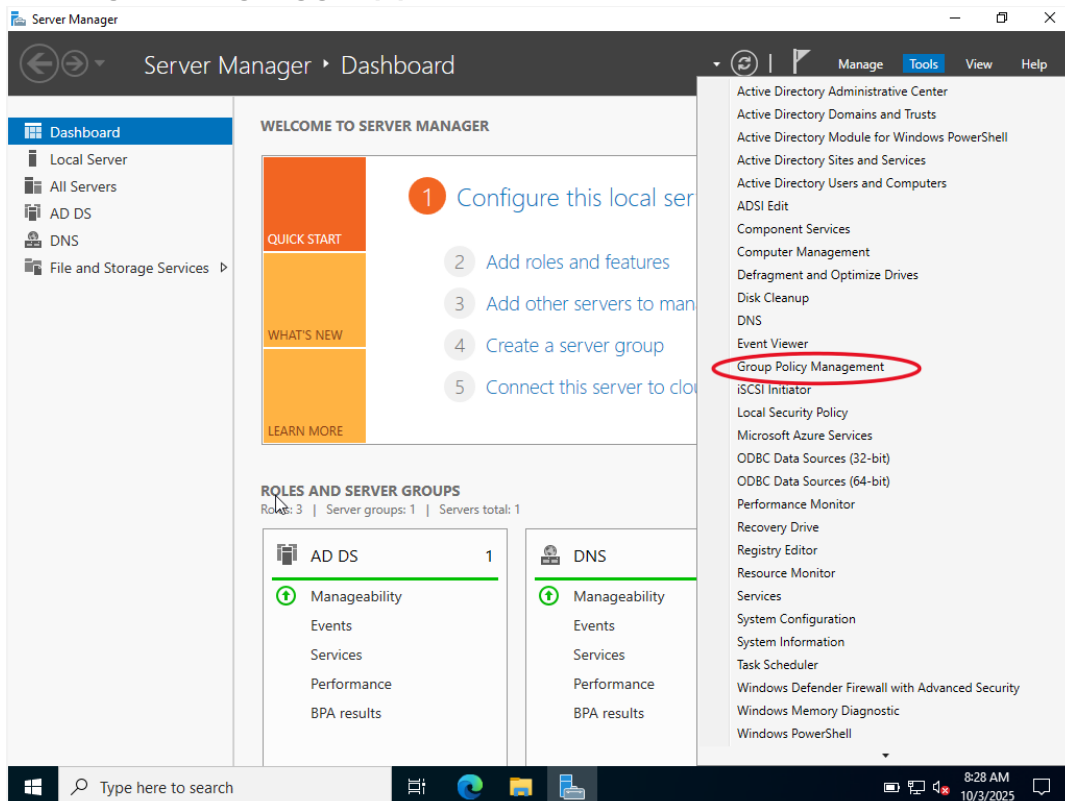


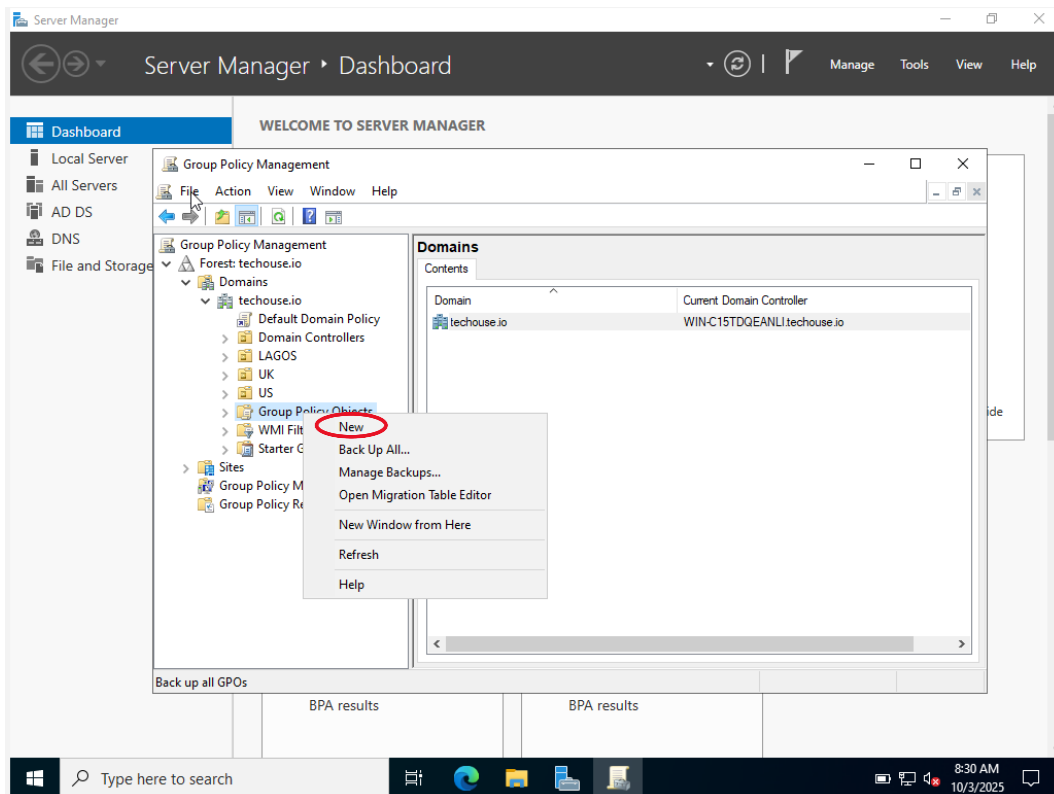
Logging into the user PC with the created credentials



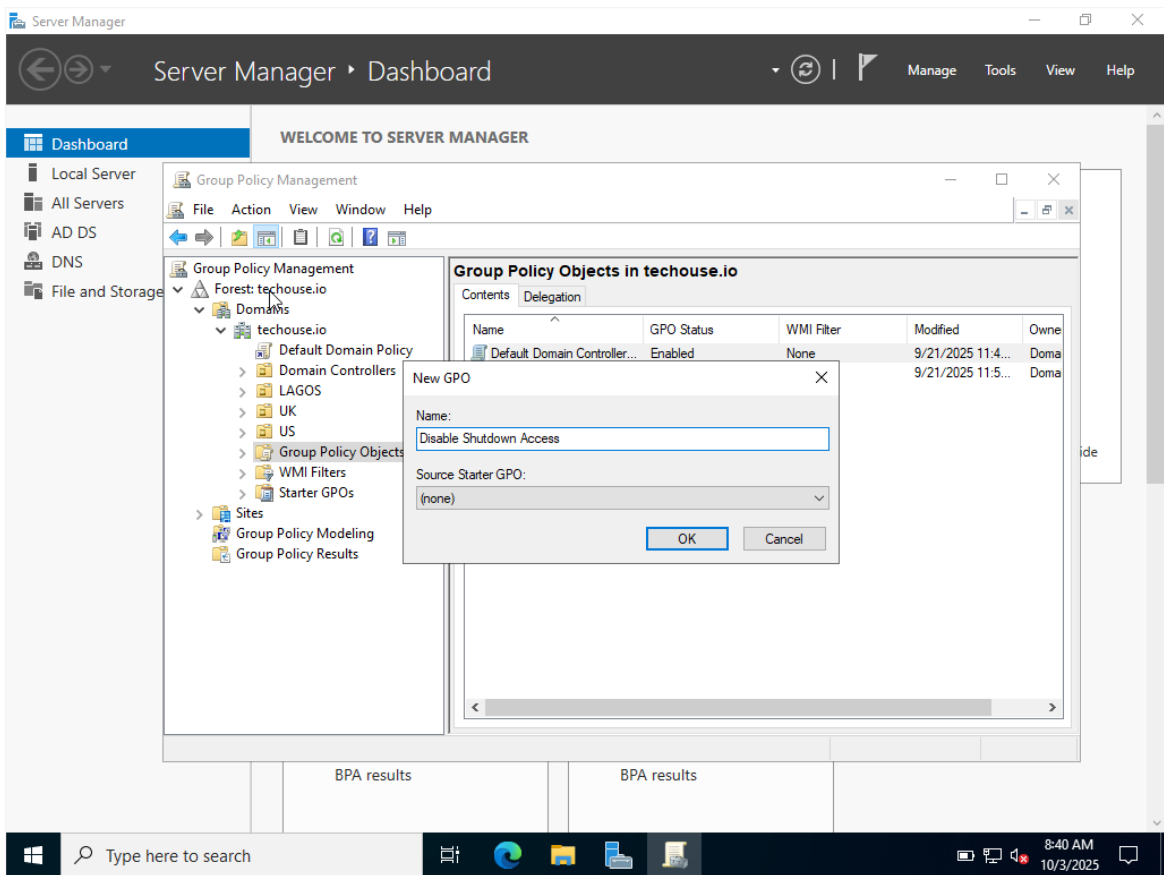
Emmanuel Oye logged into the user PC successfully

Creating and assigning group policies to users in the domain

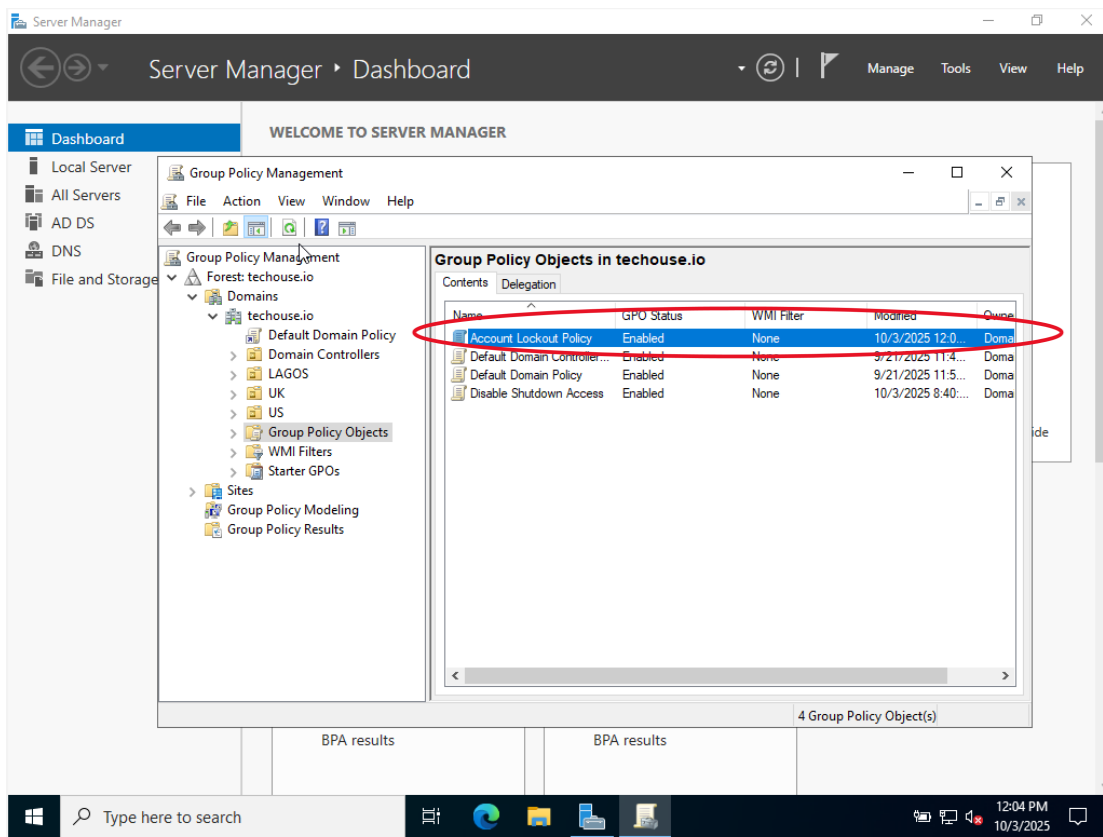
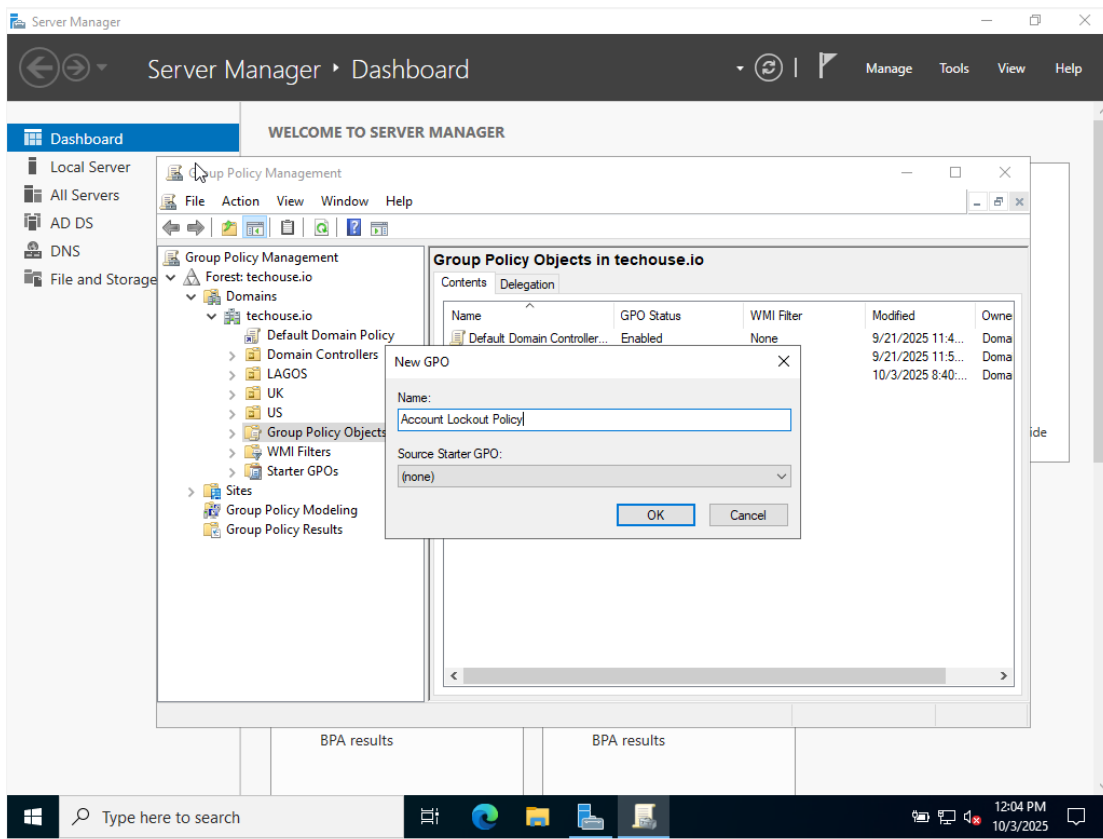




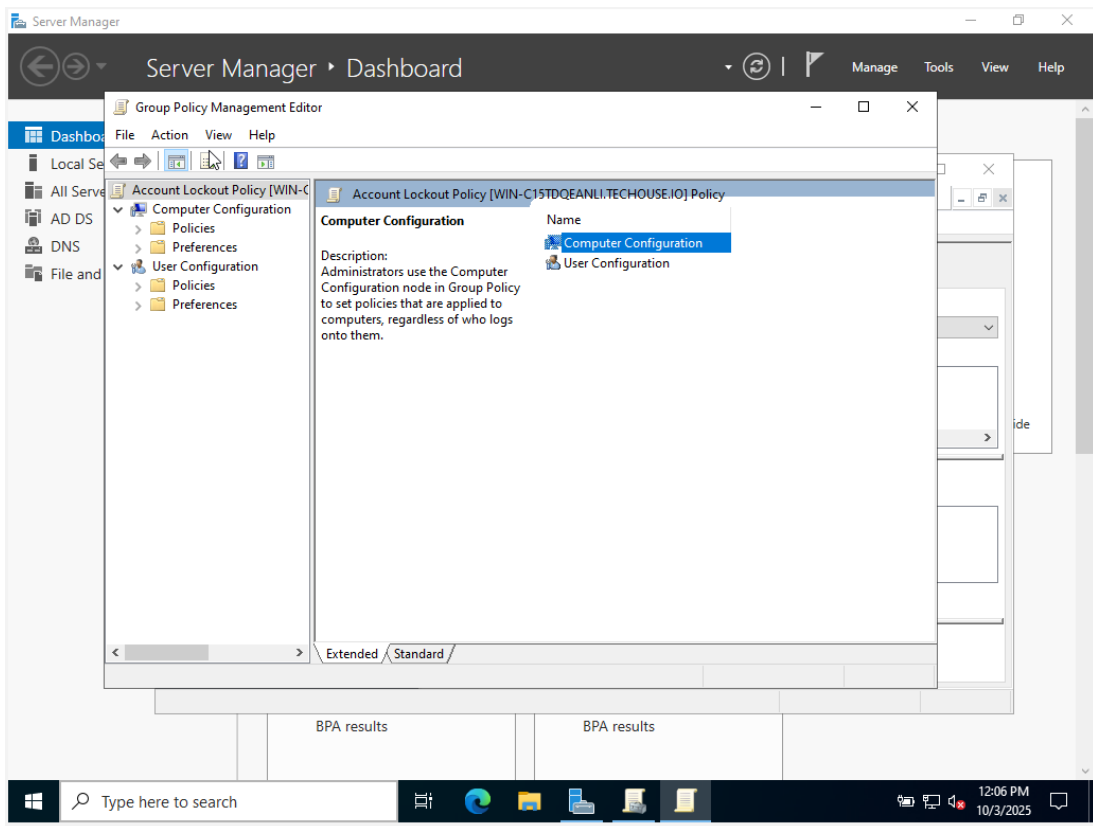
Right-click on group policy objects and select new



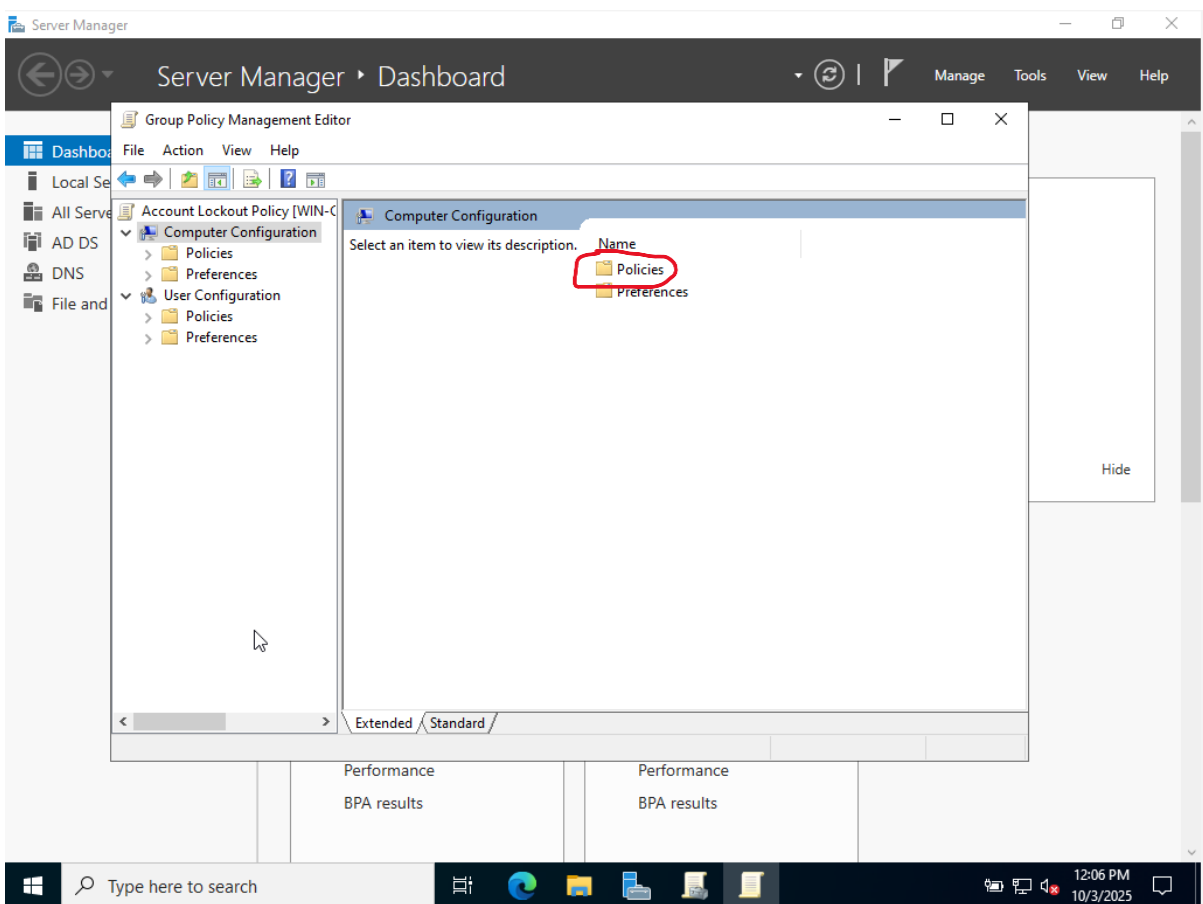
Name the group policy object

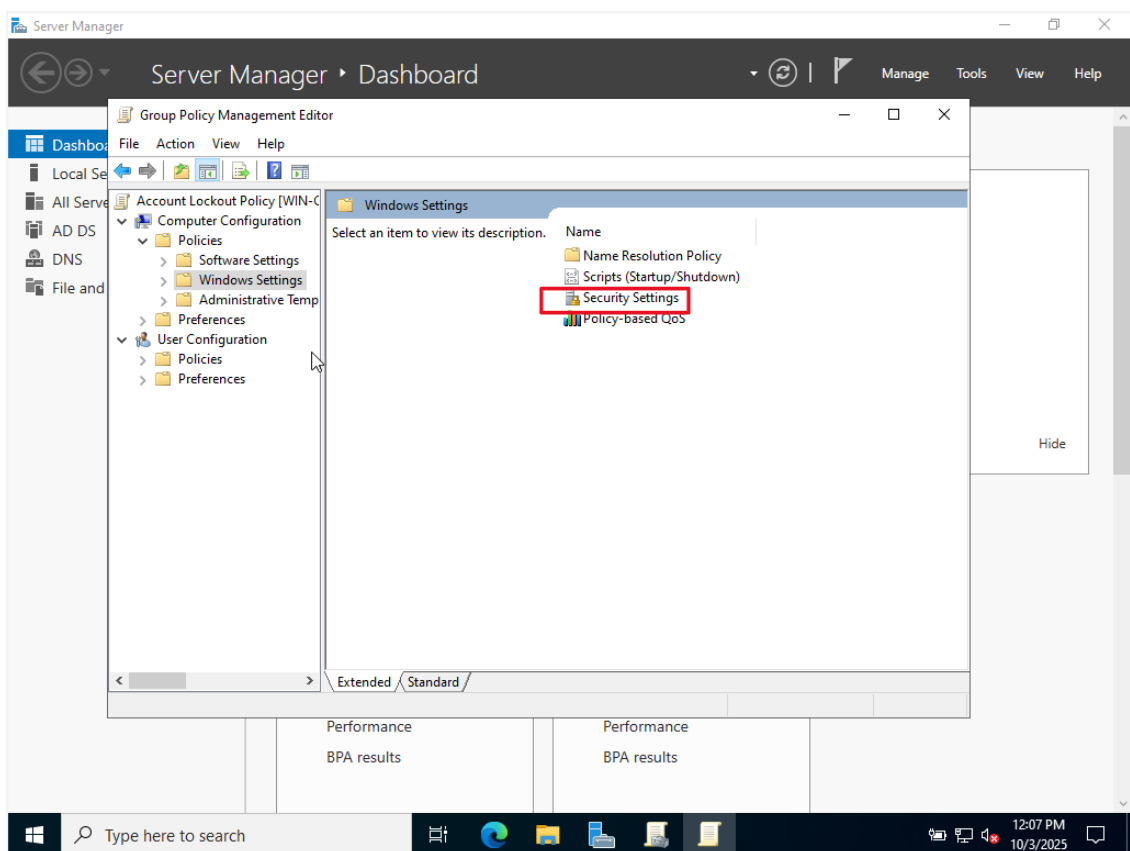
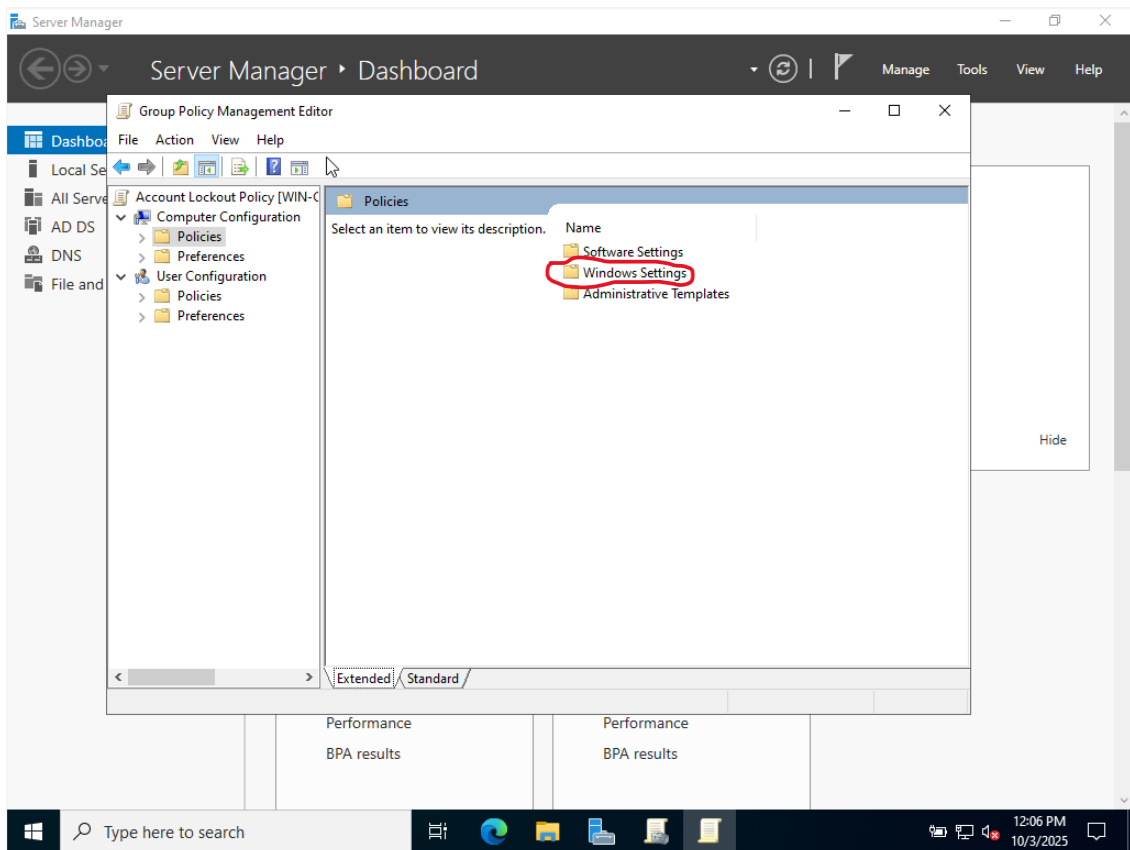


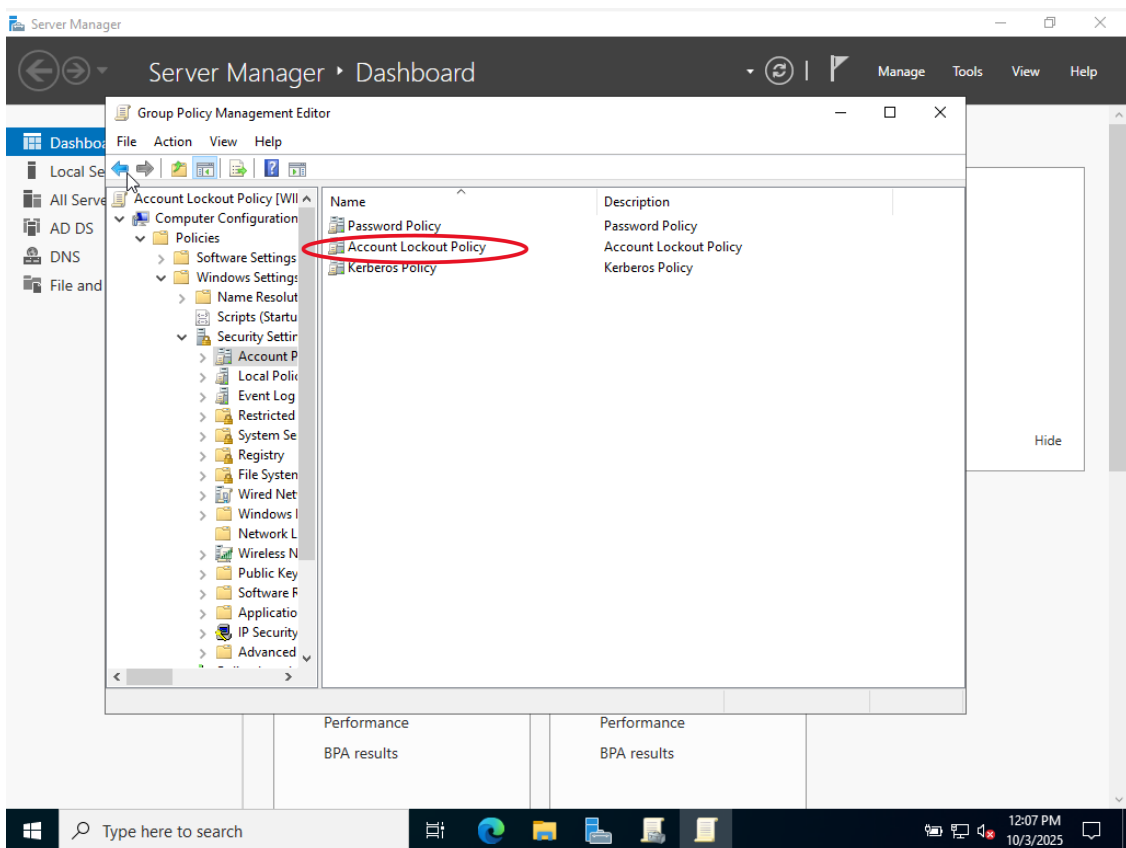
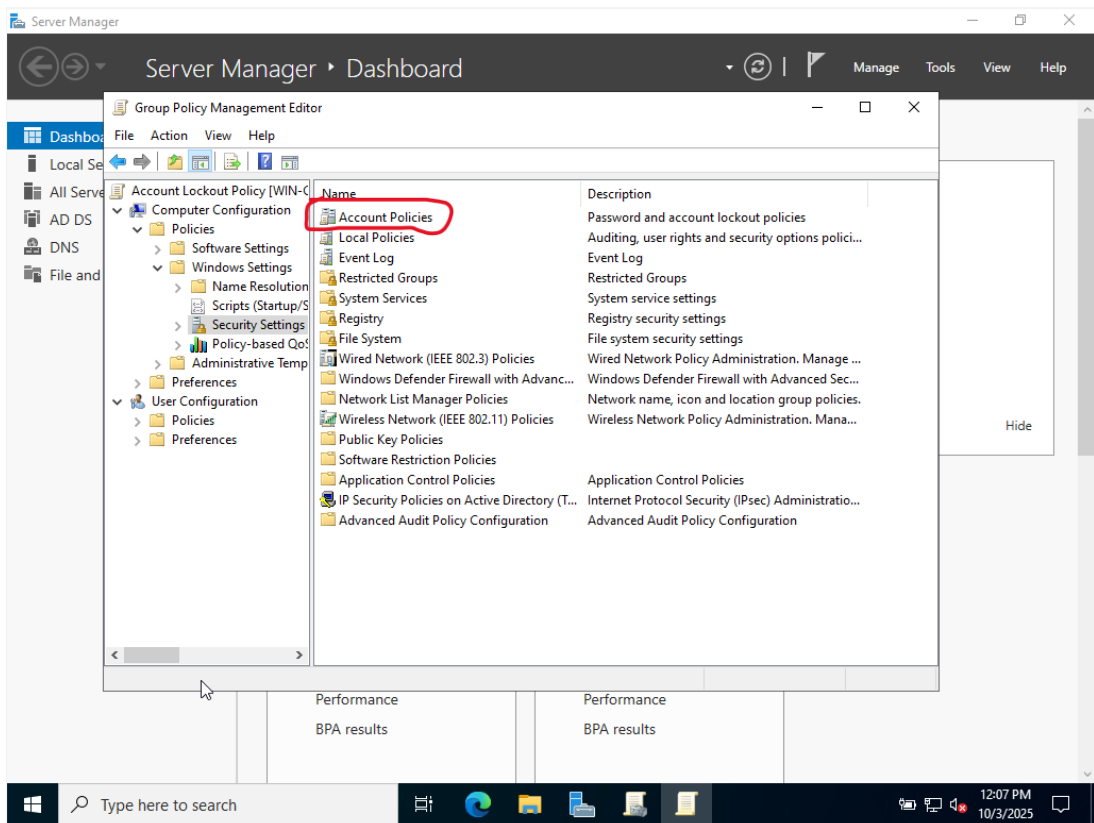
Group policy object created

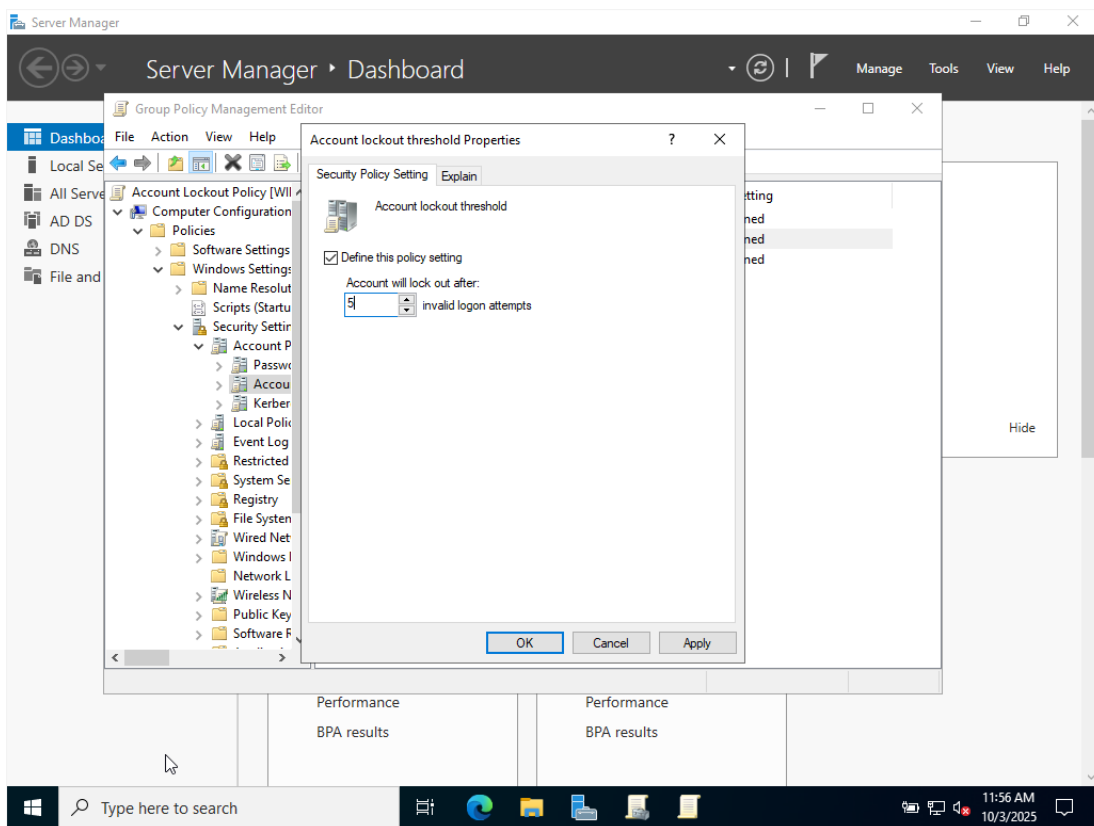
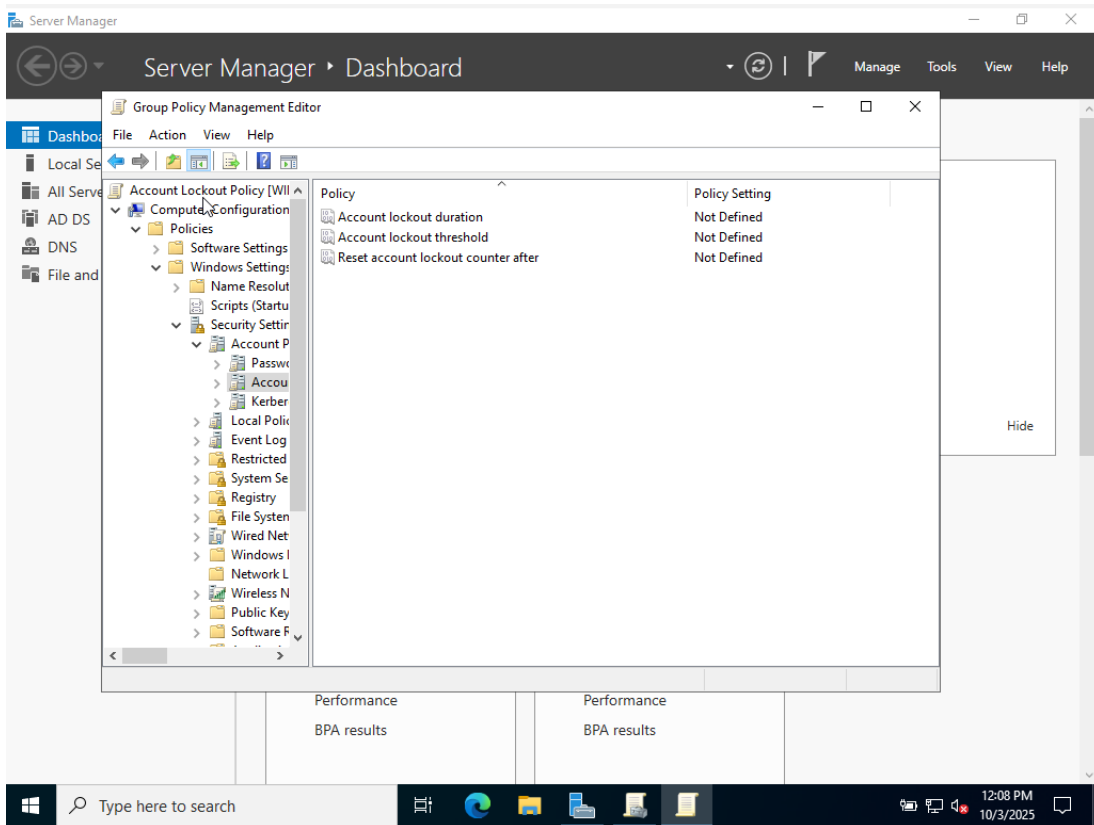


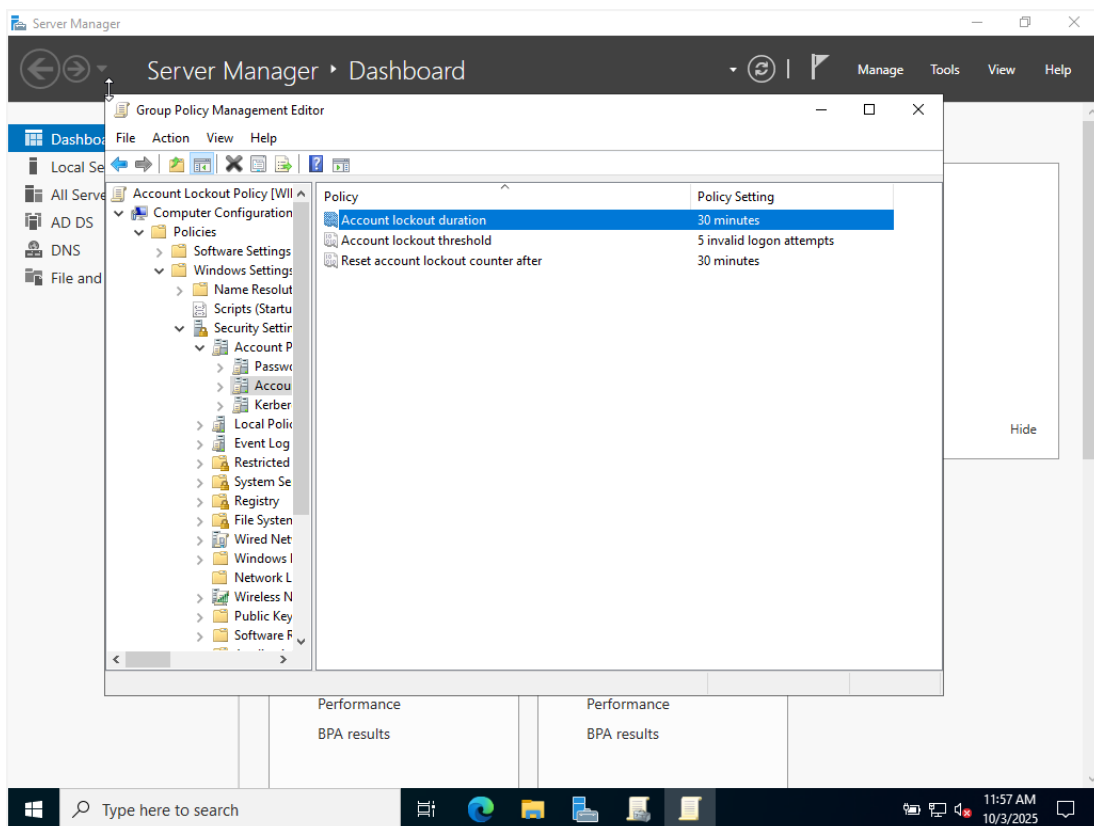
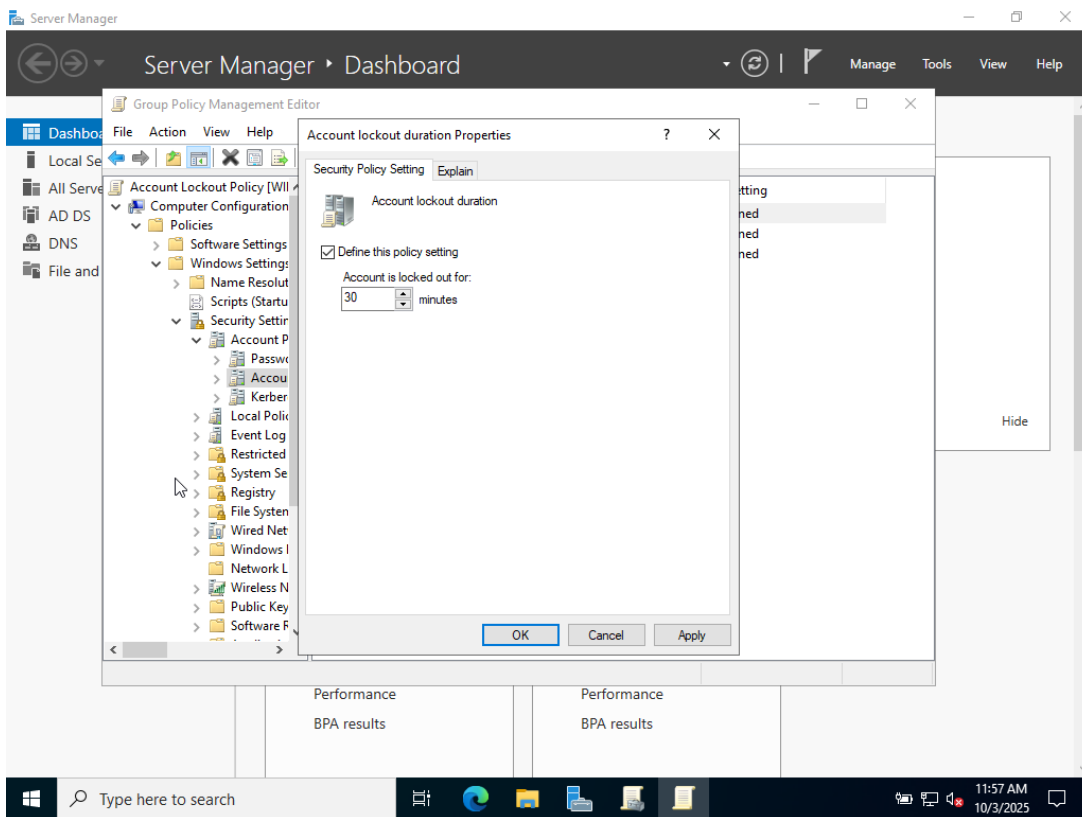
Assigning account lockout policy to the group policy object

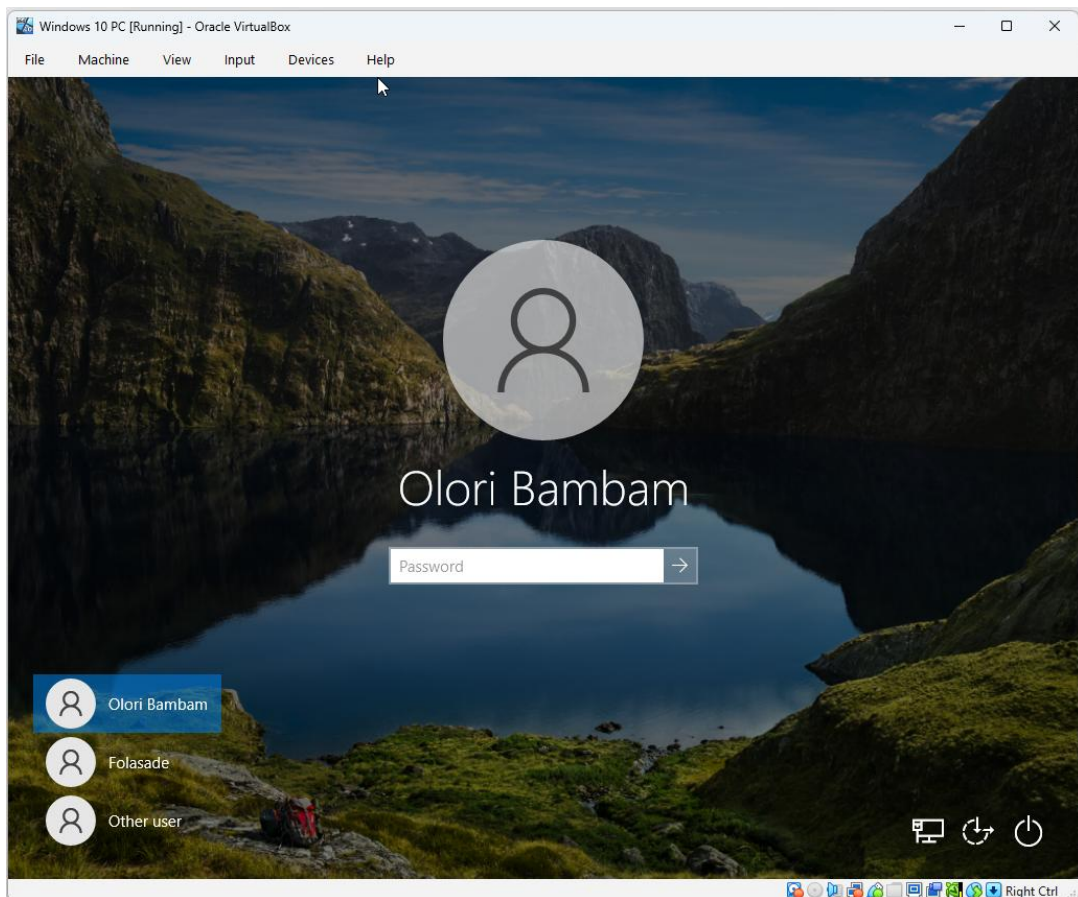




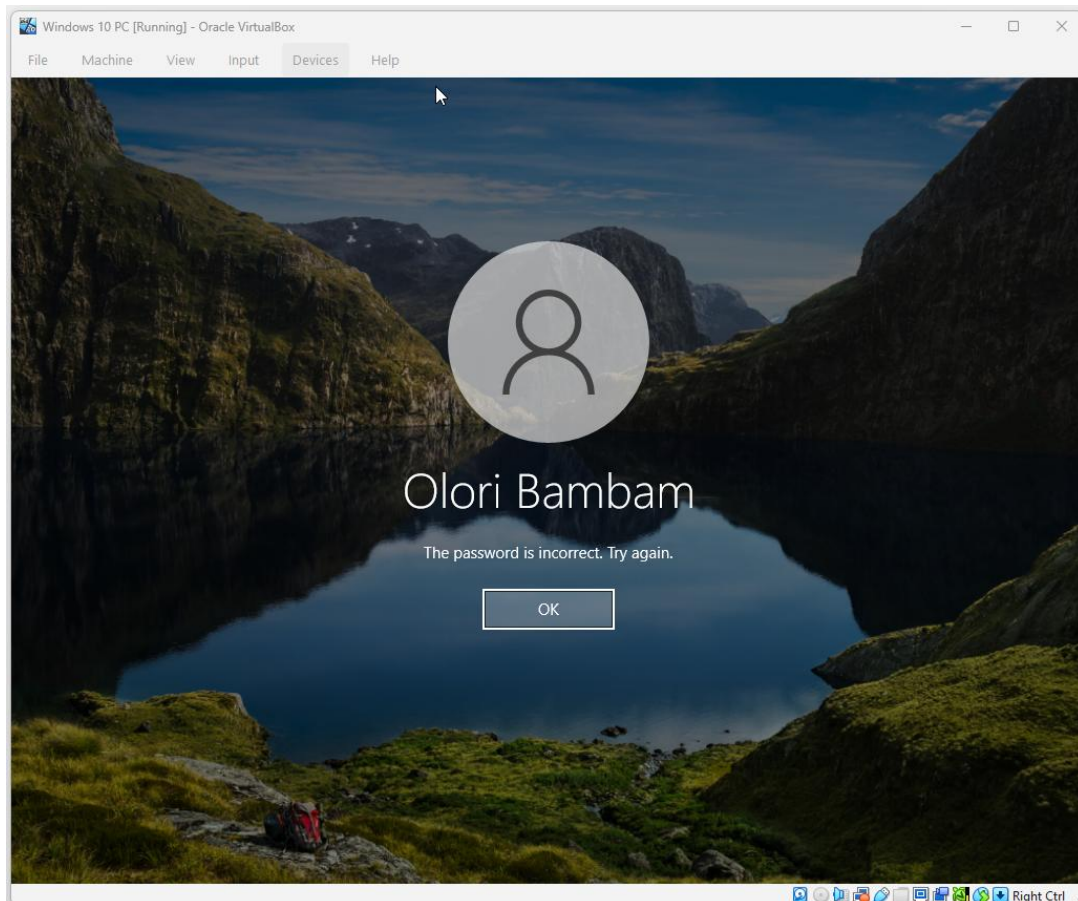


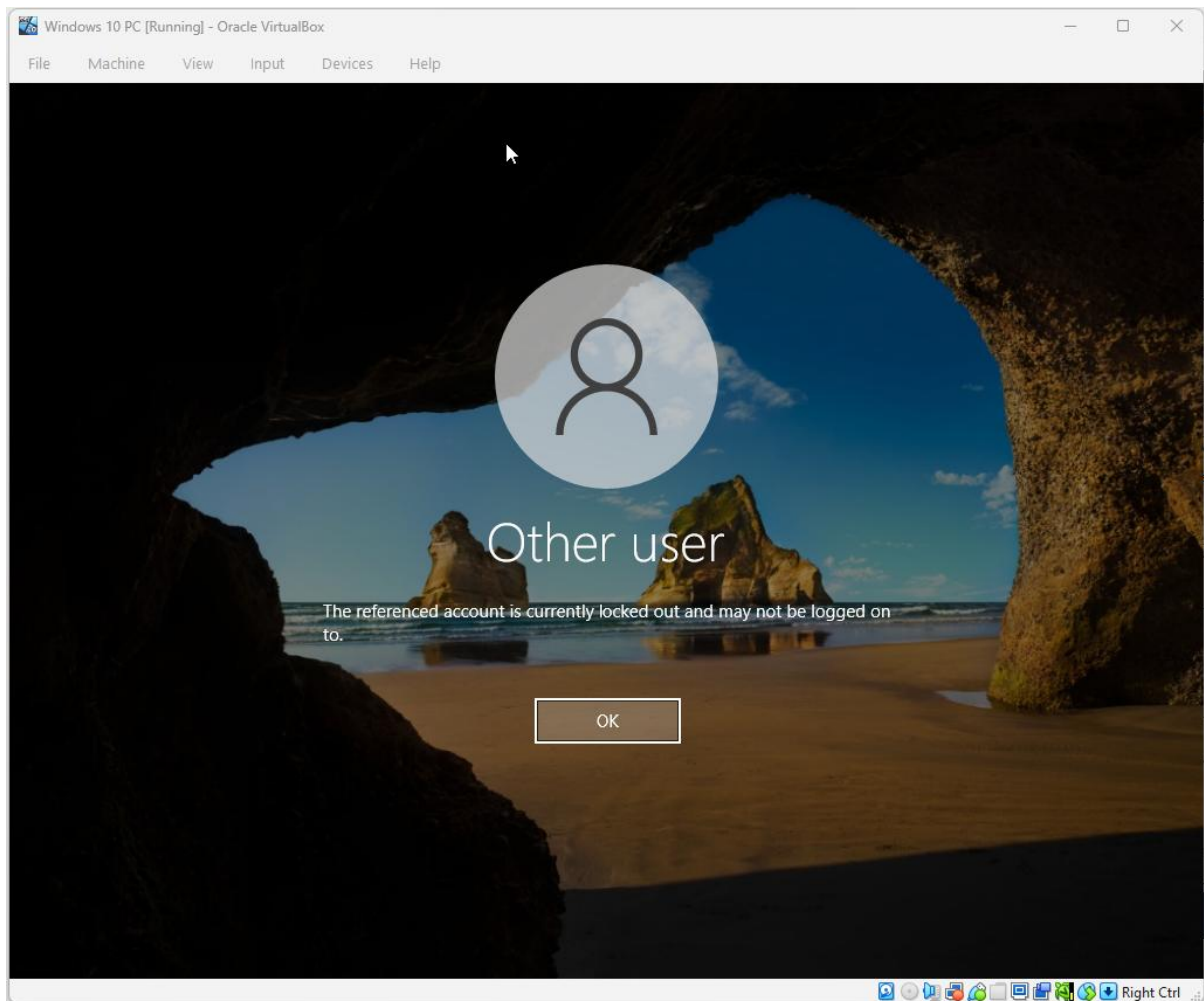






Testing the applied policies with wrong login details





Account lockout policy active

Conclusion / Summary of Lab Exercise

This lab successfully demonstrated how Active Directory Domain Services (AD DS) can manage users, computers, and security policies from a central point. By setting up a domain, creating Organizational Units, users, groups, and applying Group Policy Objects, I gained practical experience in identity and access management.

The advantages of using AD DS are clear: it allows centralized management of resources, improves security through controlled access, and makes it easier to enforce consistent policies across all devices. It is scalable, supporting growth as more users and computers are added, and simplifies resource access by allowing users to log in with a single set of credentials. Furthermore, AD DS provides reliability and redundancy when multiple Domain Controllers are implemented, ensuring network services remain available.