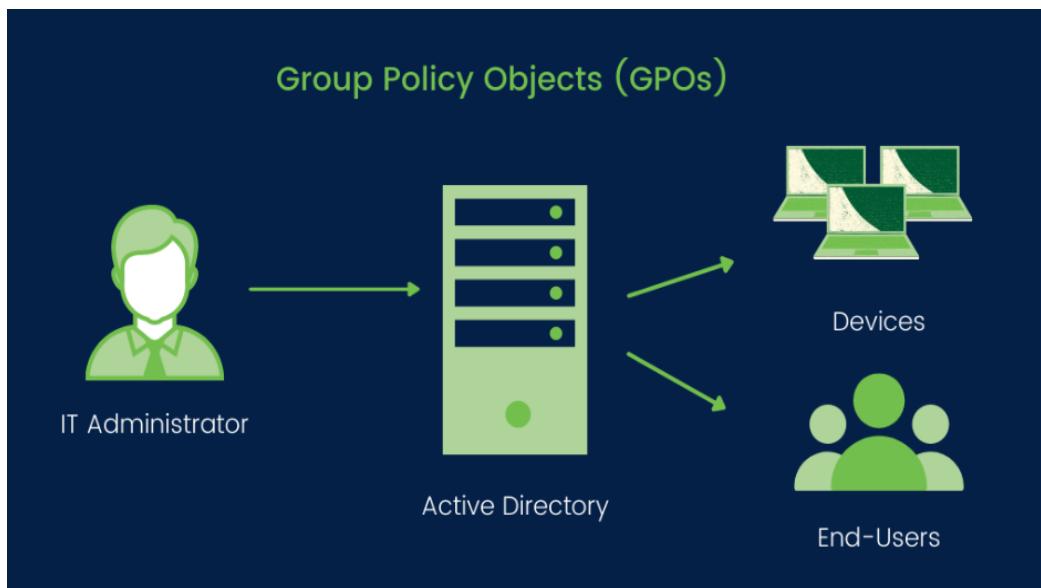




#2 BUILDING A PERSONAL ACTIVE DIRECTORY LAB: A STEP-BY-STEP GUIDE



Dinesh Gorapalli

Dinesh Gorapalli

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Prerequisites:

Windows Server Installation: Install Window Server on a Virtual machine.

Active Directory Domain Controller (ADDS): Install and configure AD DS to create a domain.

Group Policy Management Console (GPMC): Install GPMC on your Windows Server to manage GPOs

Windows Client Machine Installation: Windows Pro or Enterprise Client (Virtual Machine)

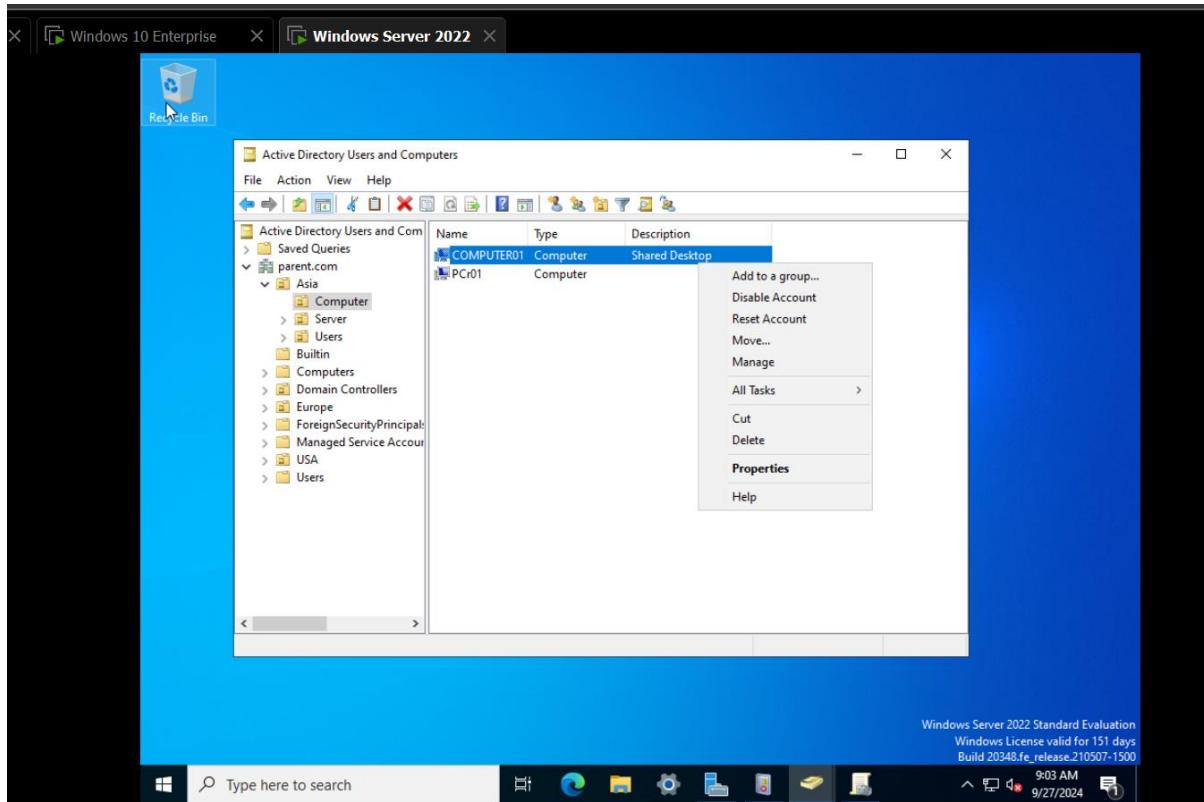
Applying GPOs

Restrict Control Panel

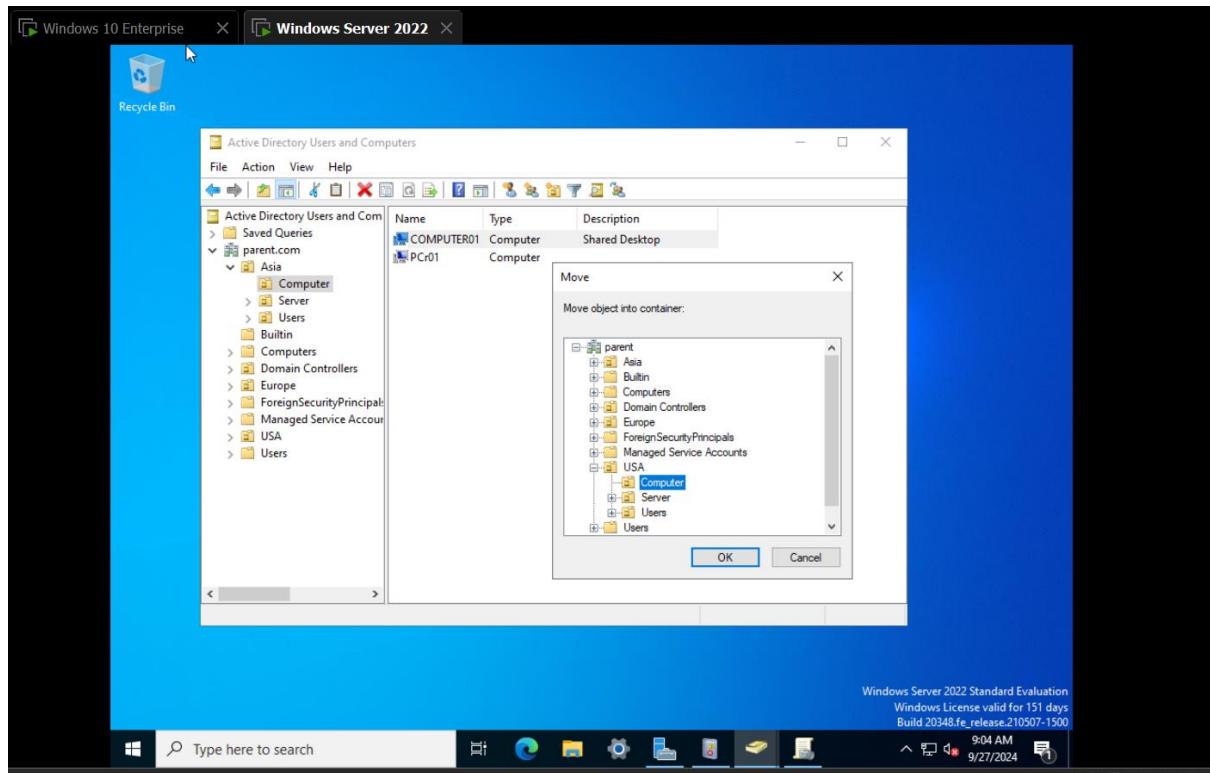
Just drag put in User OU

Moving Computers to different OU

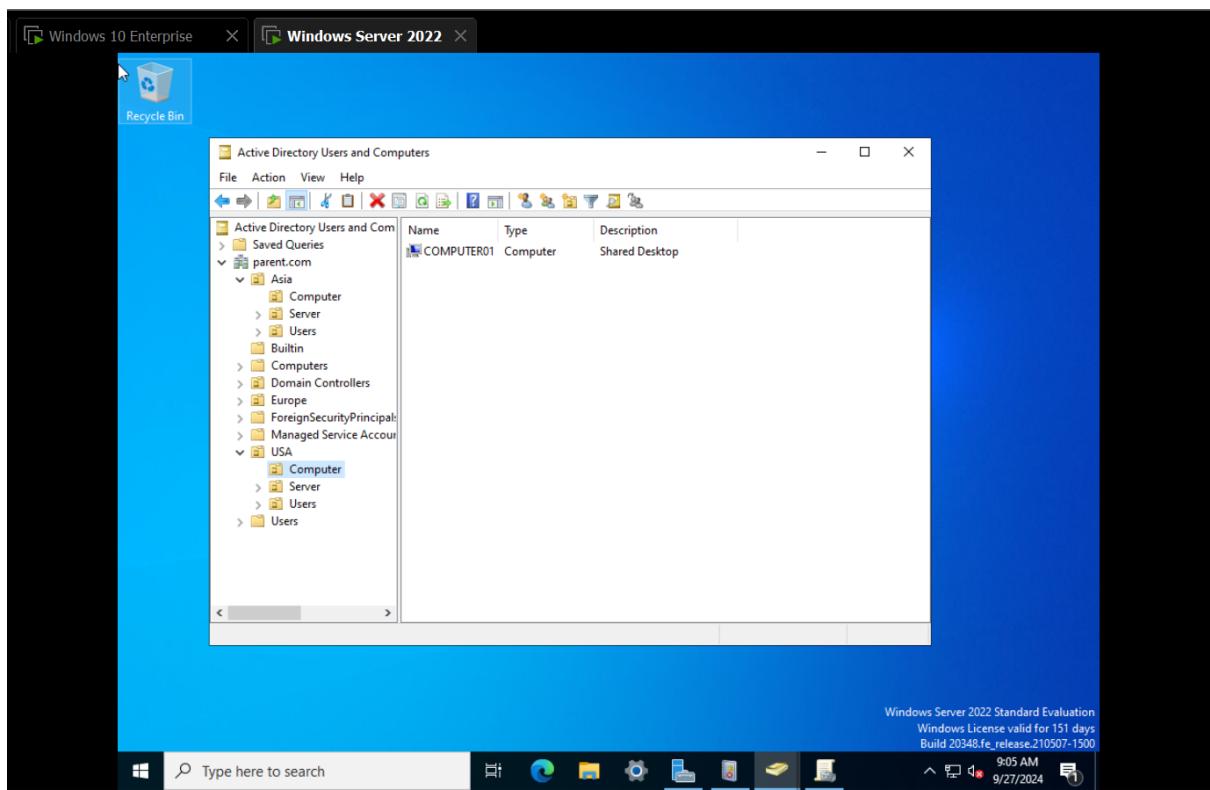
1. Select one computer and click on right click on it. We can see Move option.



2. After click on Move, we can window then move to respected position. Here, I'm select OU of USA folder there Computer.



3. Now we see, computer there in USA OU.

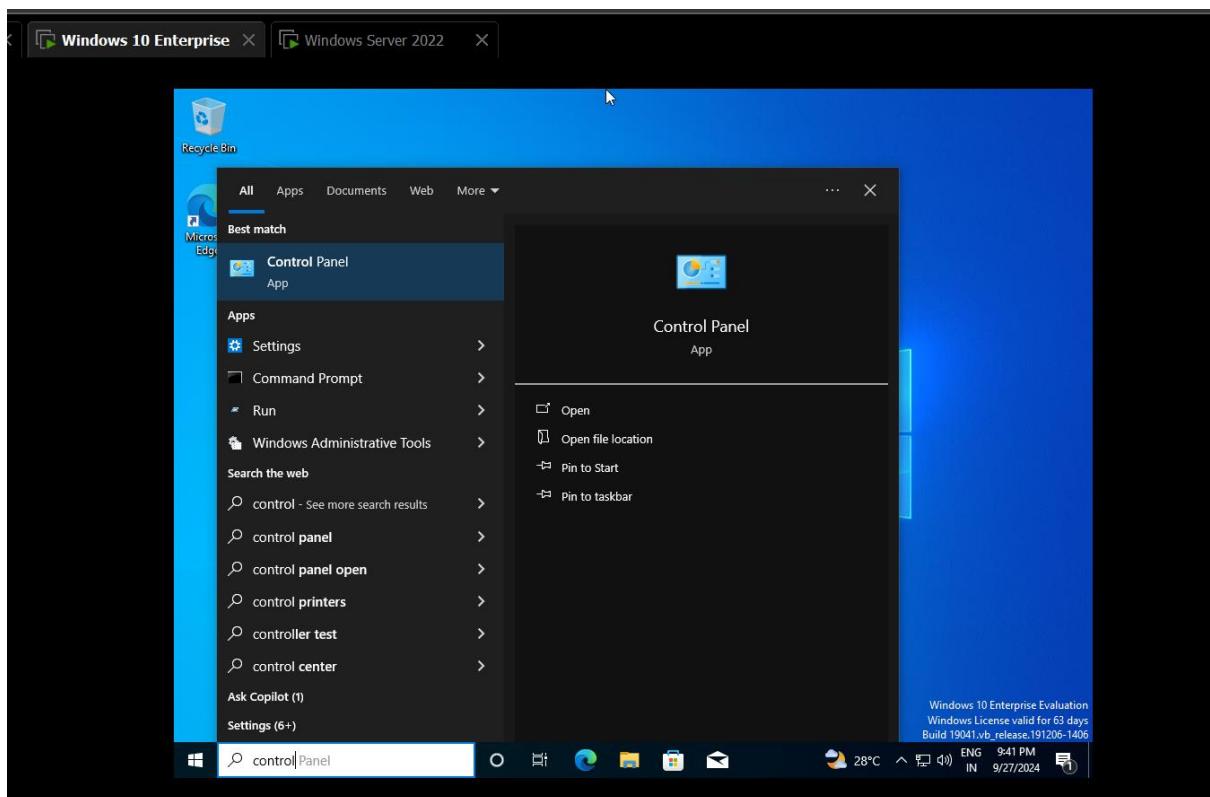


Hence in these way we do Moving a Computer to another OU.

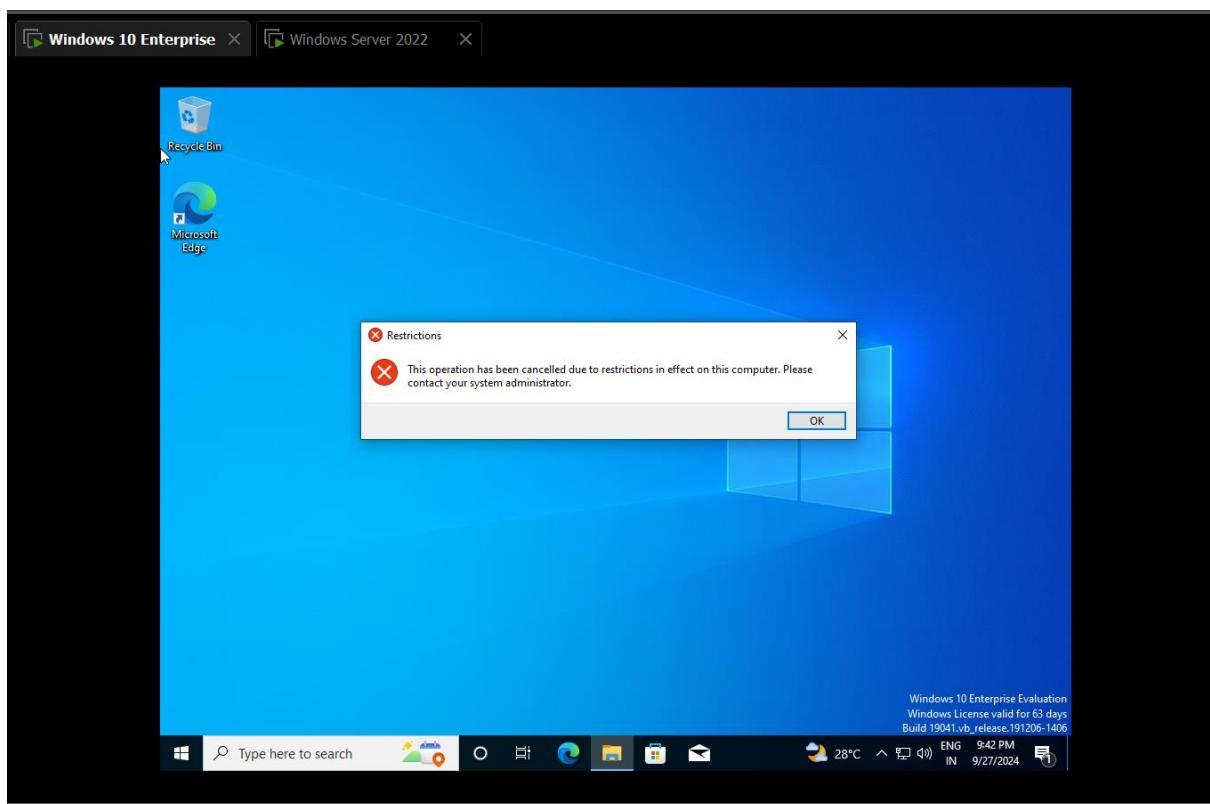
To Check GPO whether working or Not.

By default, windows refresh GP settings every 90 minutes, with a random offset of up to 30 minutes.

1. When I open Control panel in search



2. We can see this restriction message box.



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File Services

Set up file sharing within the AD environment.

Objectives:

Gain Practical experience with AD, file sharing services.

Practice setting up and managing network resources and permissions.

We learn about,

Network Sharing

Permission types

File Service resource manager

File and folder sharing

Network Sharing - Local & Network

Permissions and Access Control - Read, Write, Execute, Full Control

Types of Permission

NTFS – More permission (File and Folder Level)

Share – Folder Level

Sharing Methods

Mapped

Network

Setting up File Services

Prerequisites:

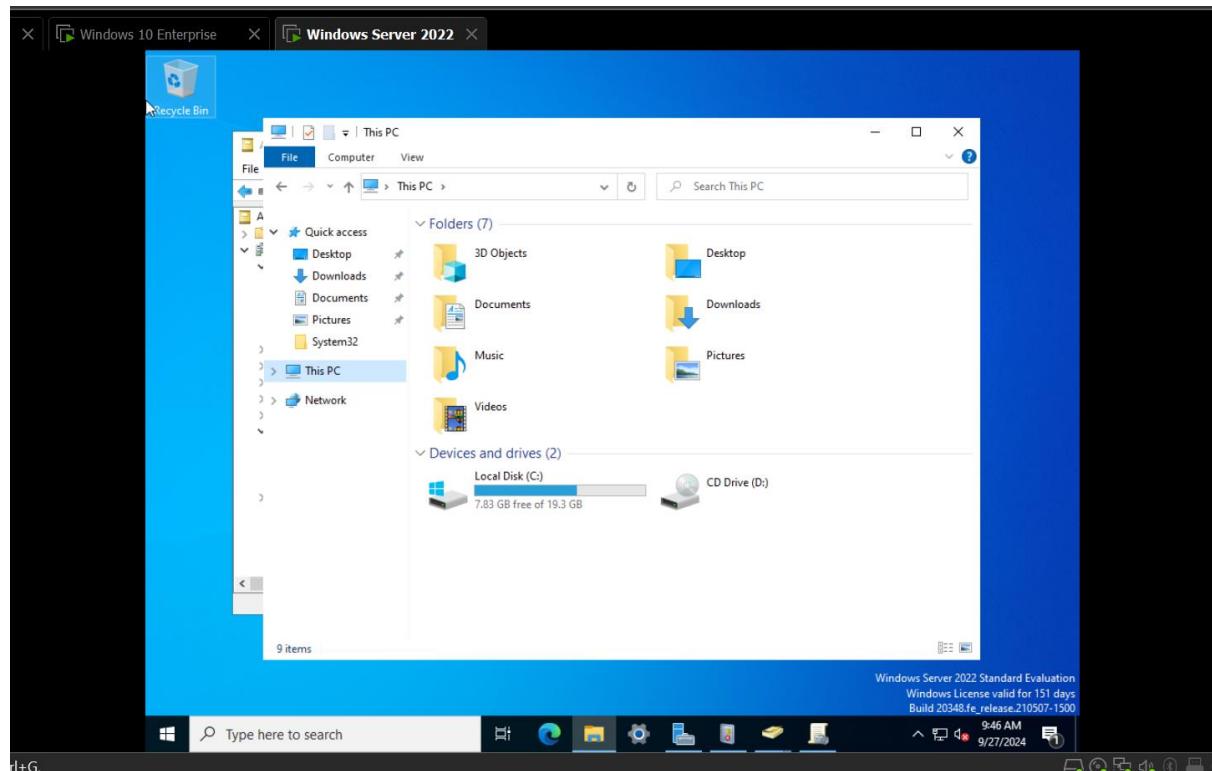
1. Windows Server Installation: Install Windows Server on a virtual machine or physical machine.
2. Active Directory Domain Services (AD DS): Install and Configure AD DS to create a domain.

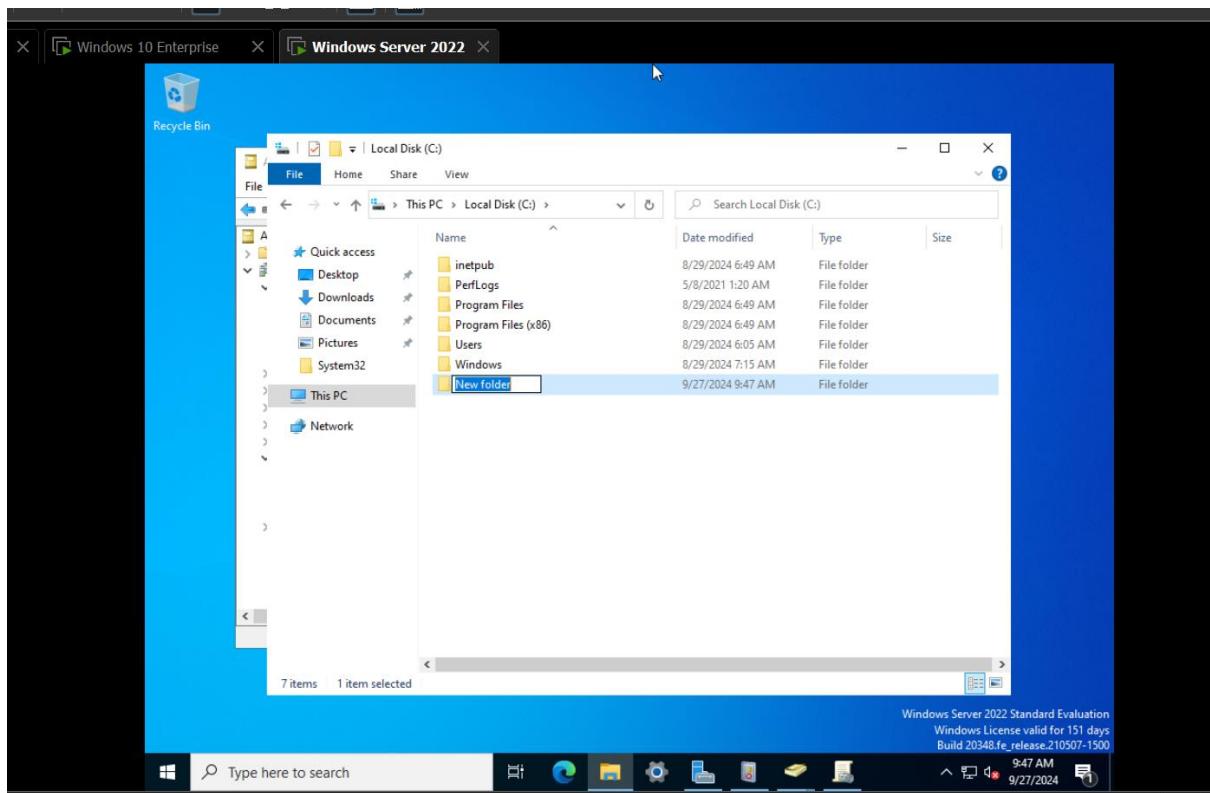
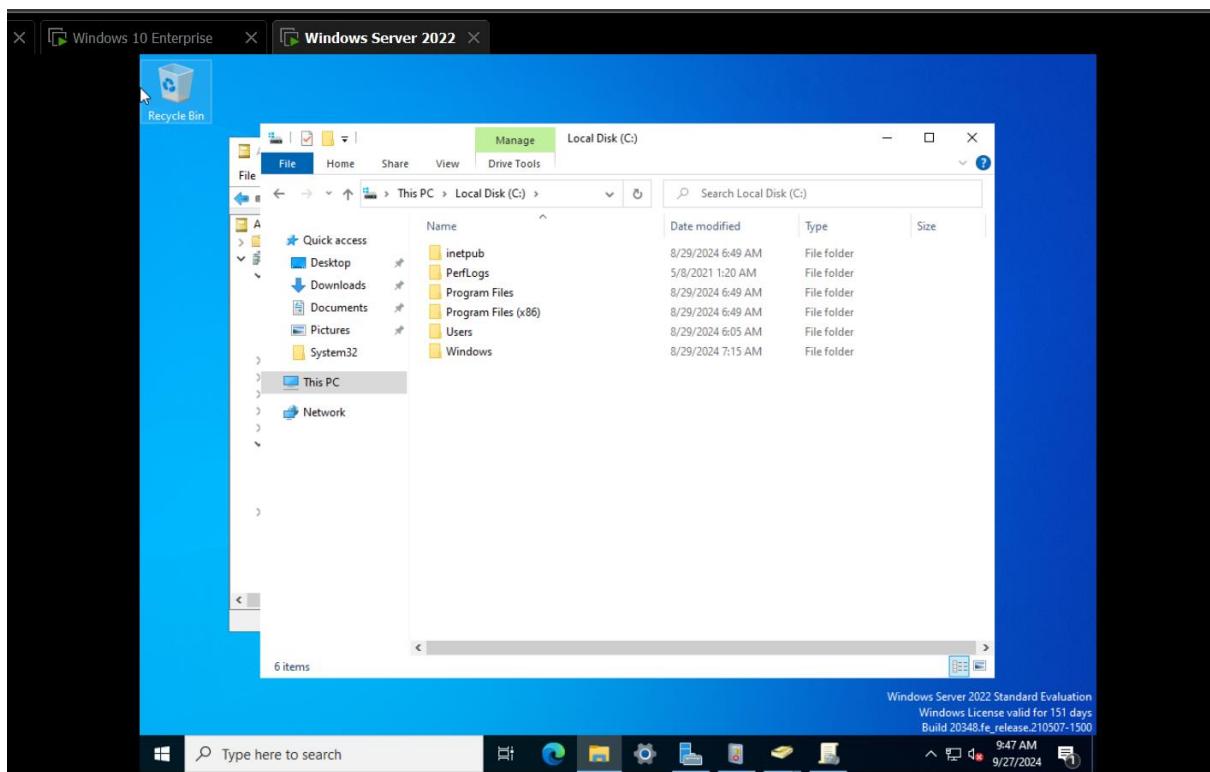
3. Group Policy Management Console (GPMC): Install GPMC on your Windows Server to manage GPOS
4. Windows Pro or Enterprise client (VM or Physical)

Activity 1: Set Up a File Sharing

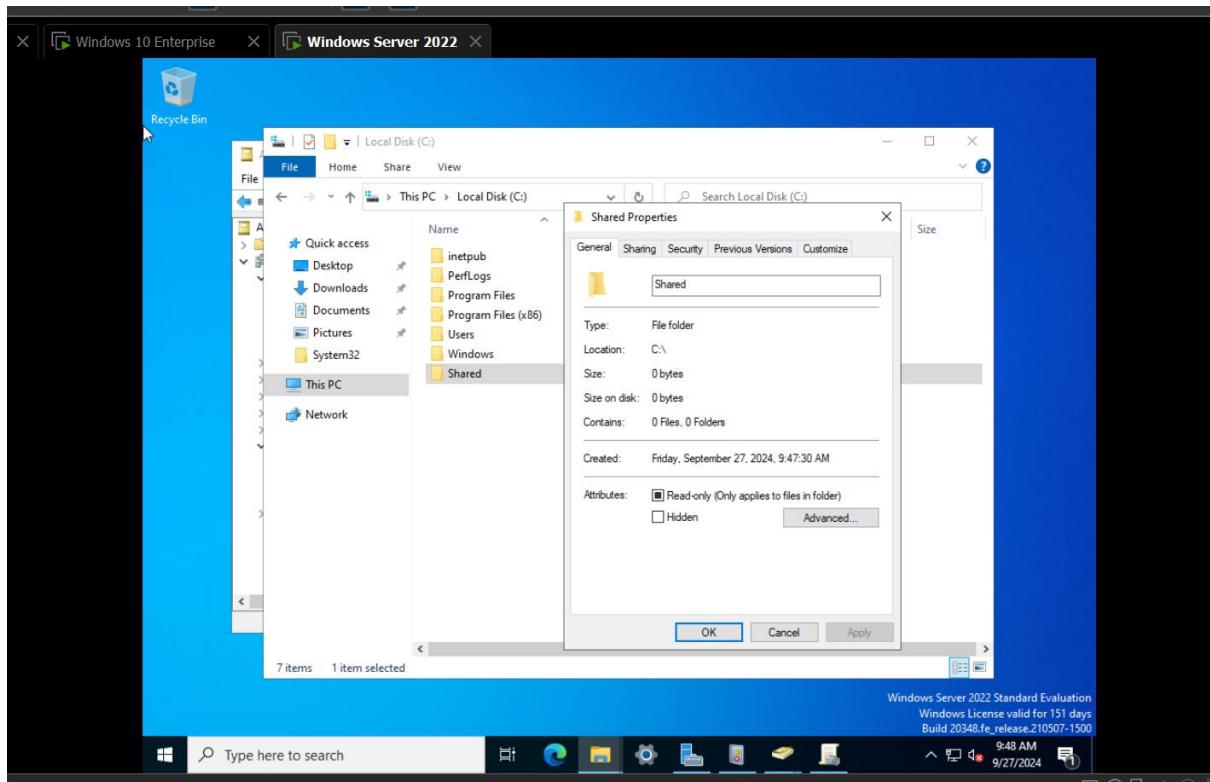
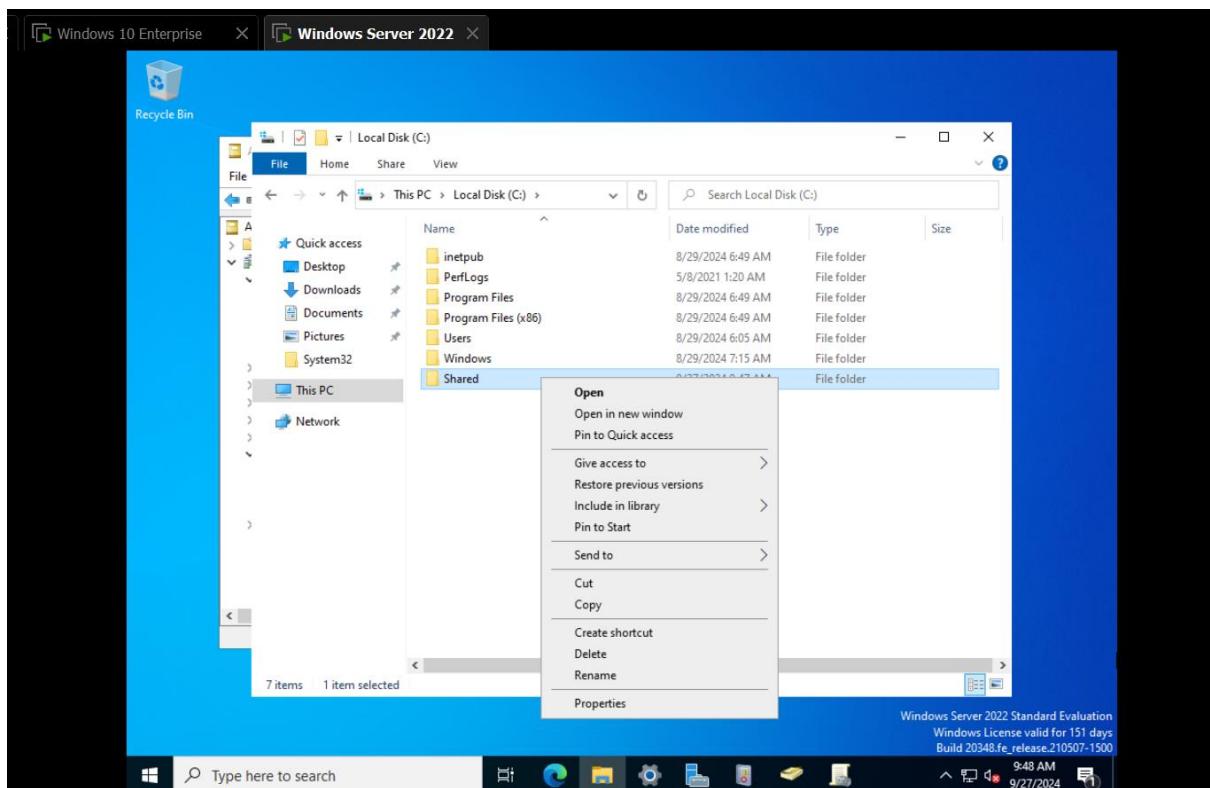
Configure File Sharing

- Create shared folders with appropriate permission
- Set NTFS and shared permissions to allow domain users access.



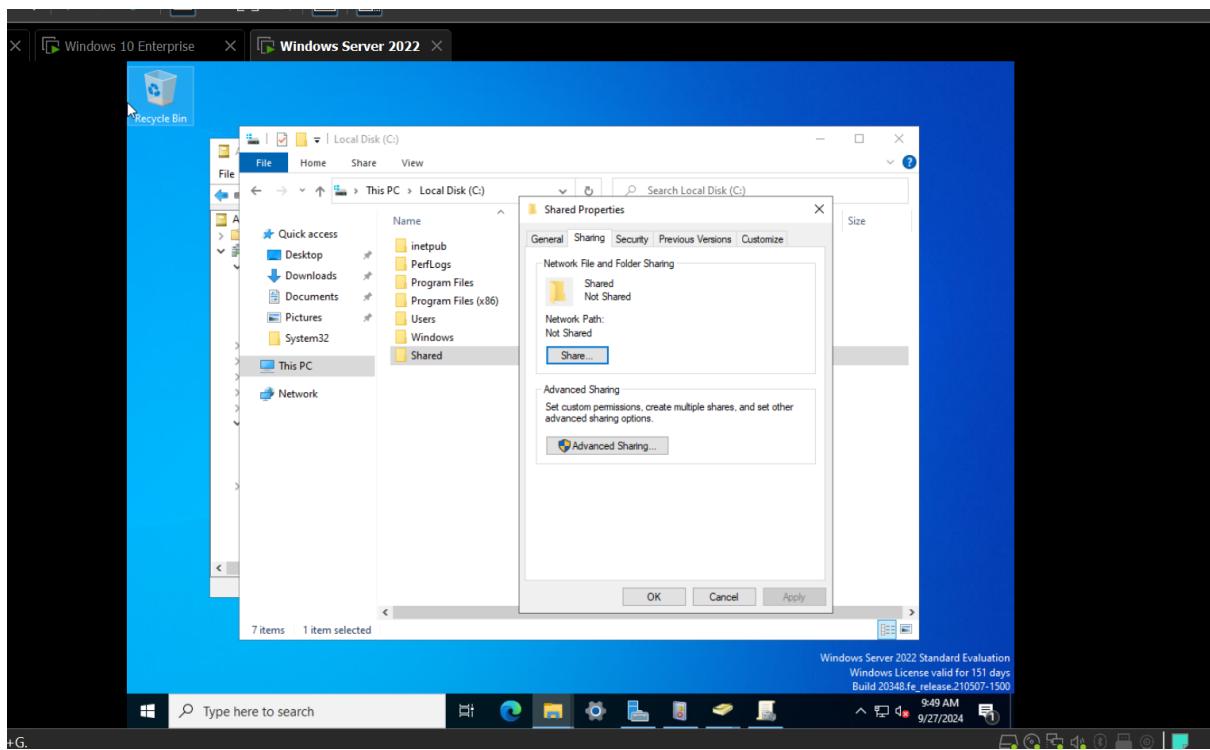


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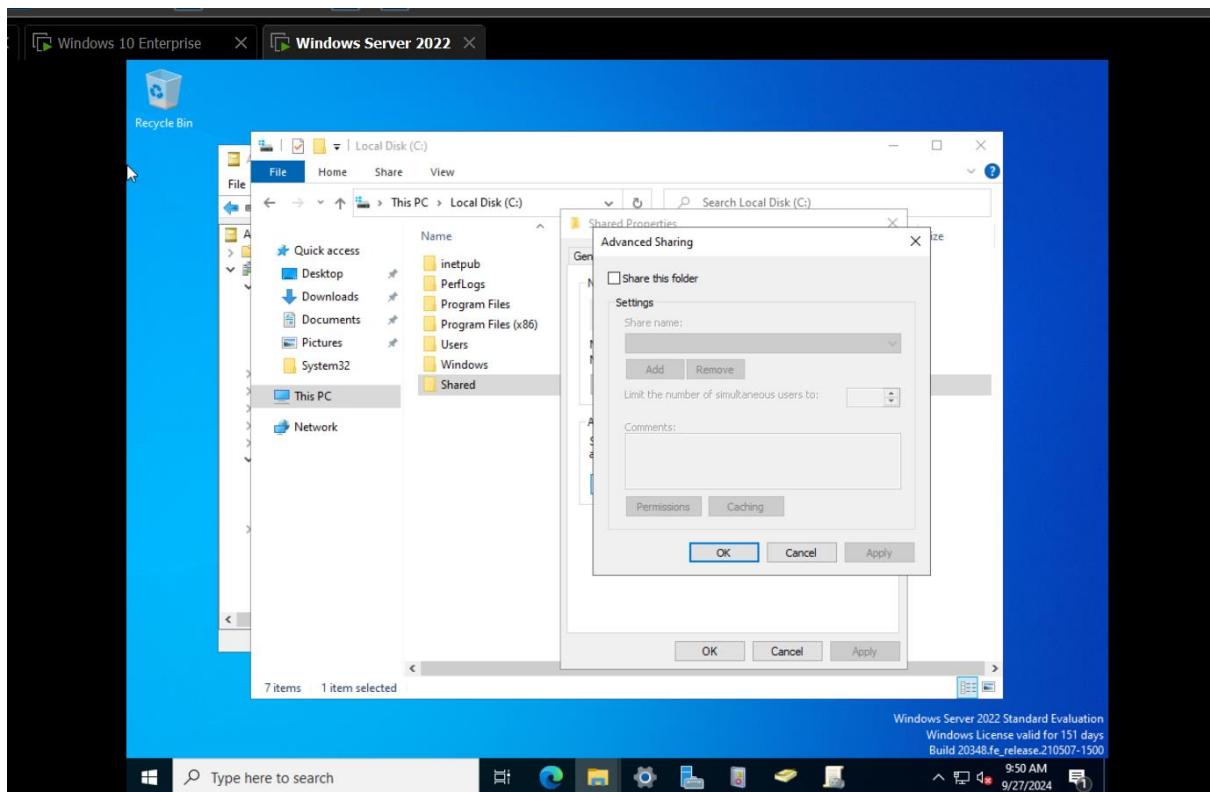


Click on sharing

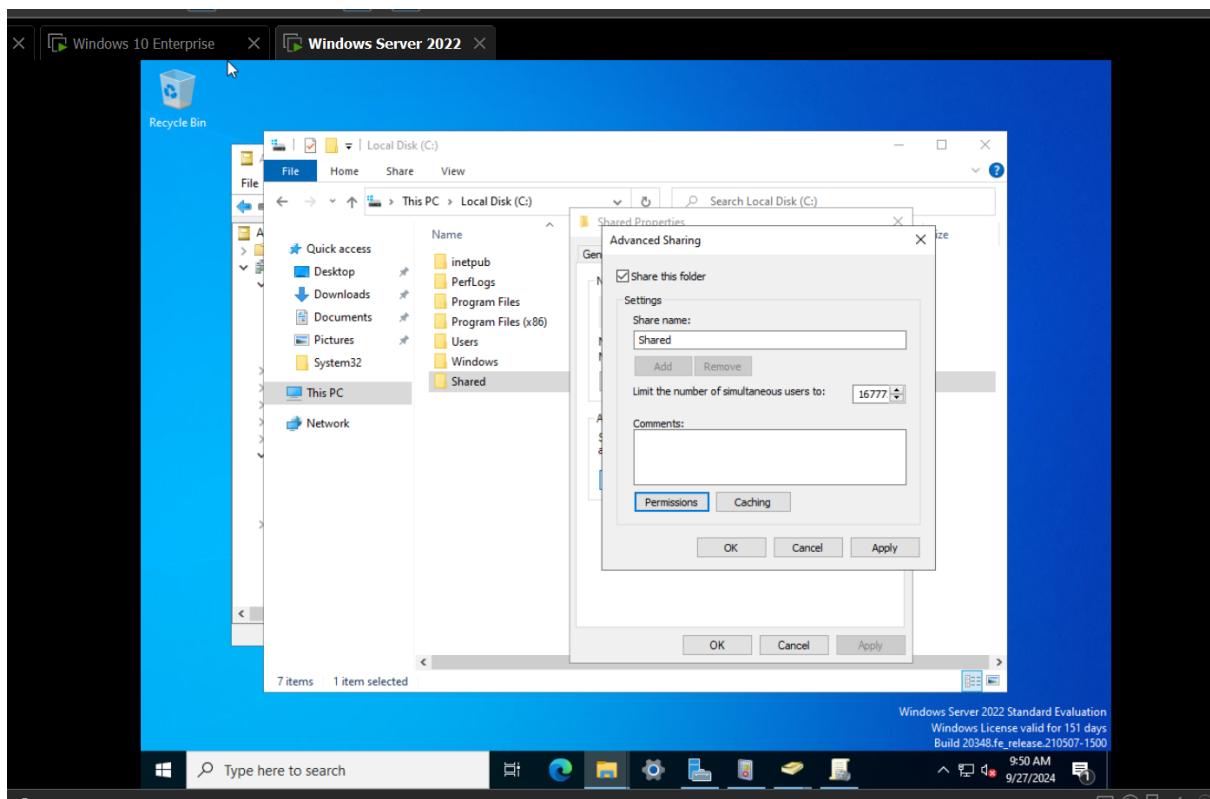
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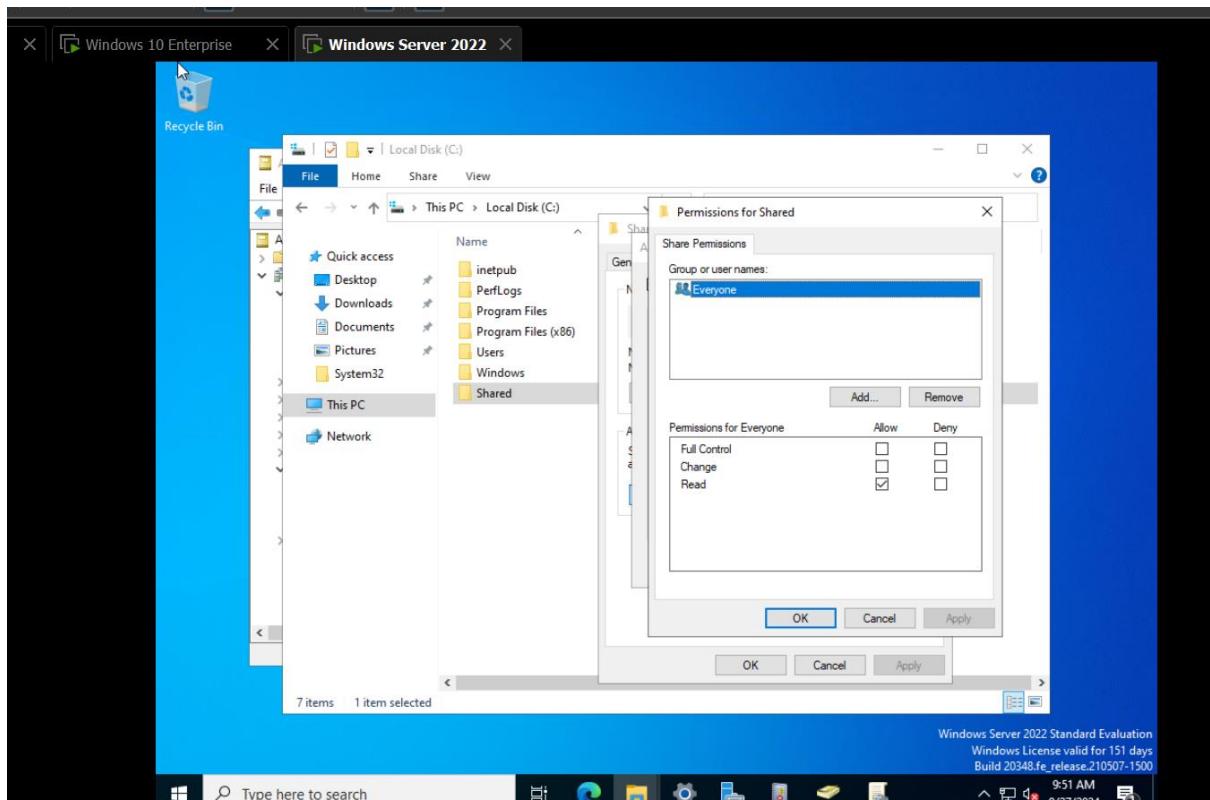
Click on Advance sharing



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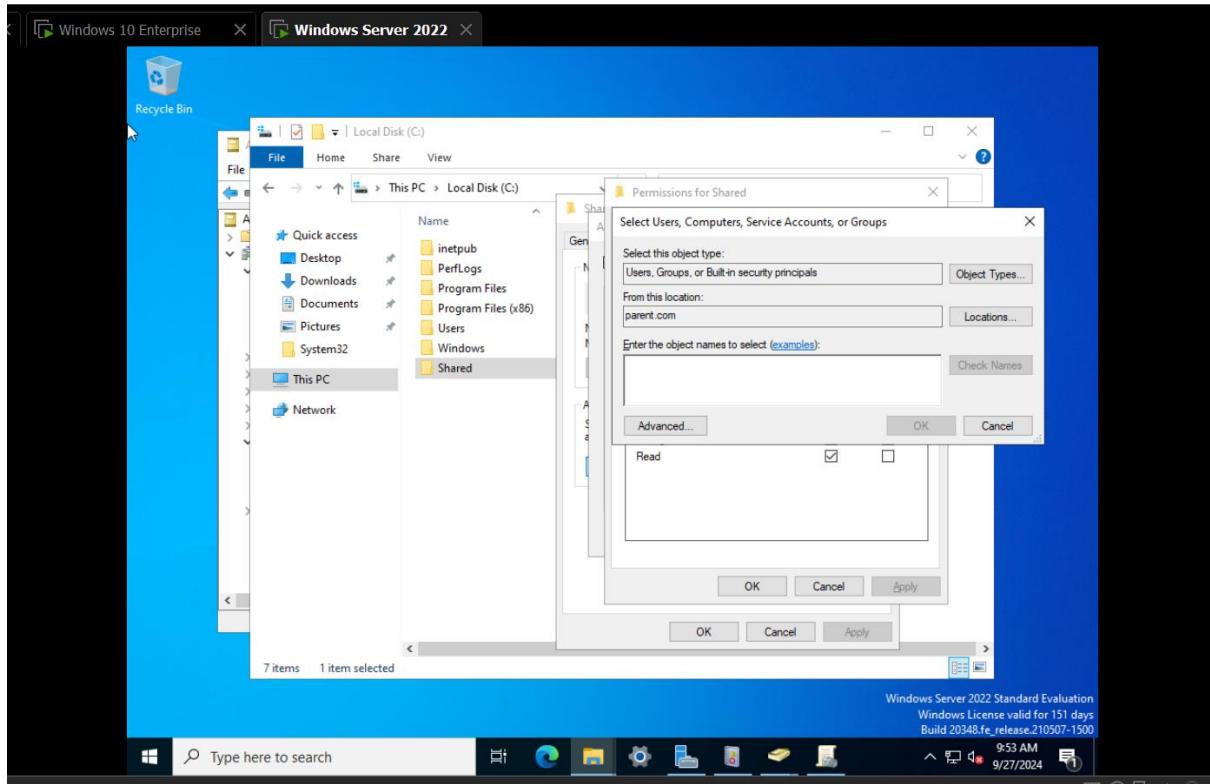


Click on permission

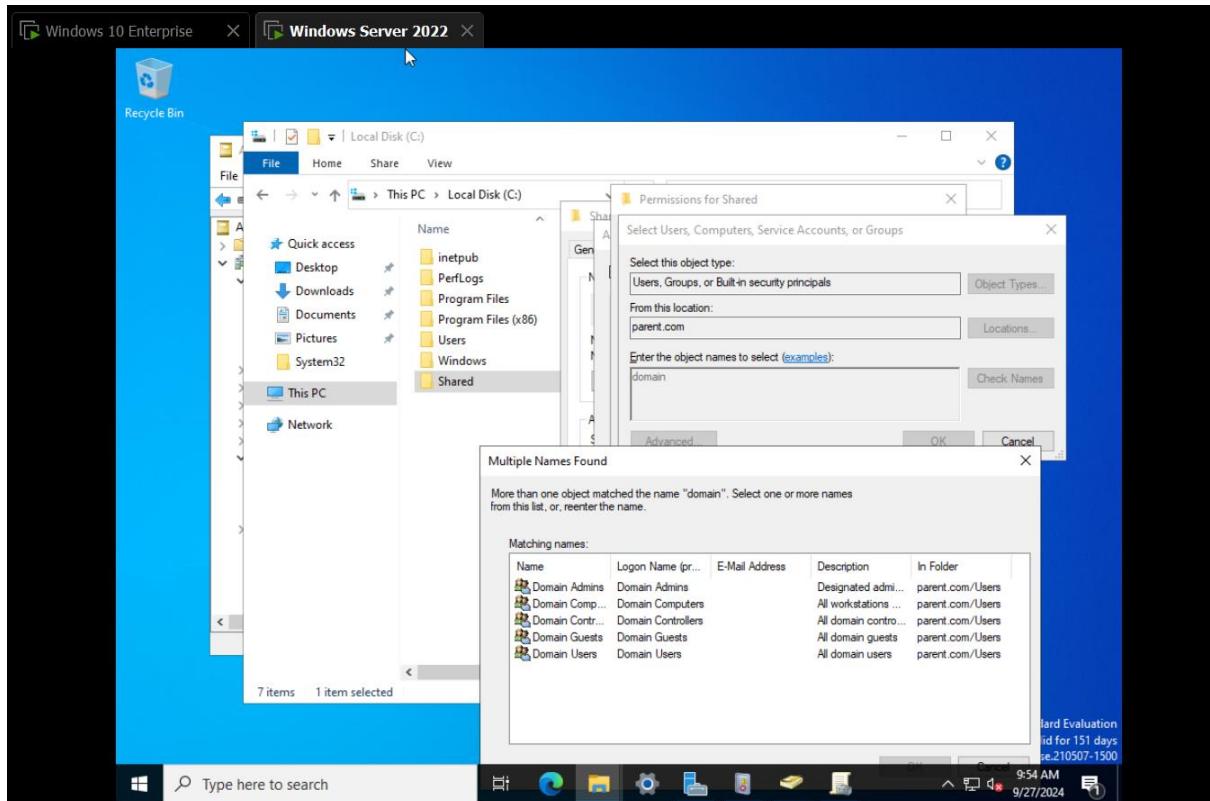


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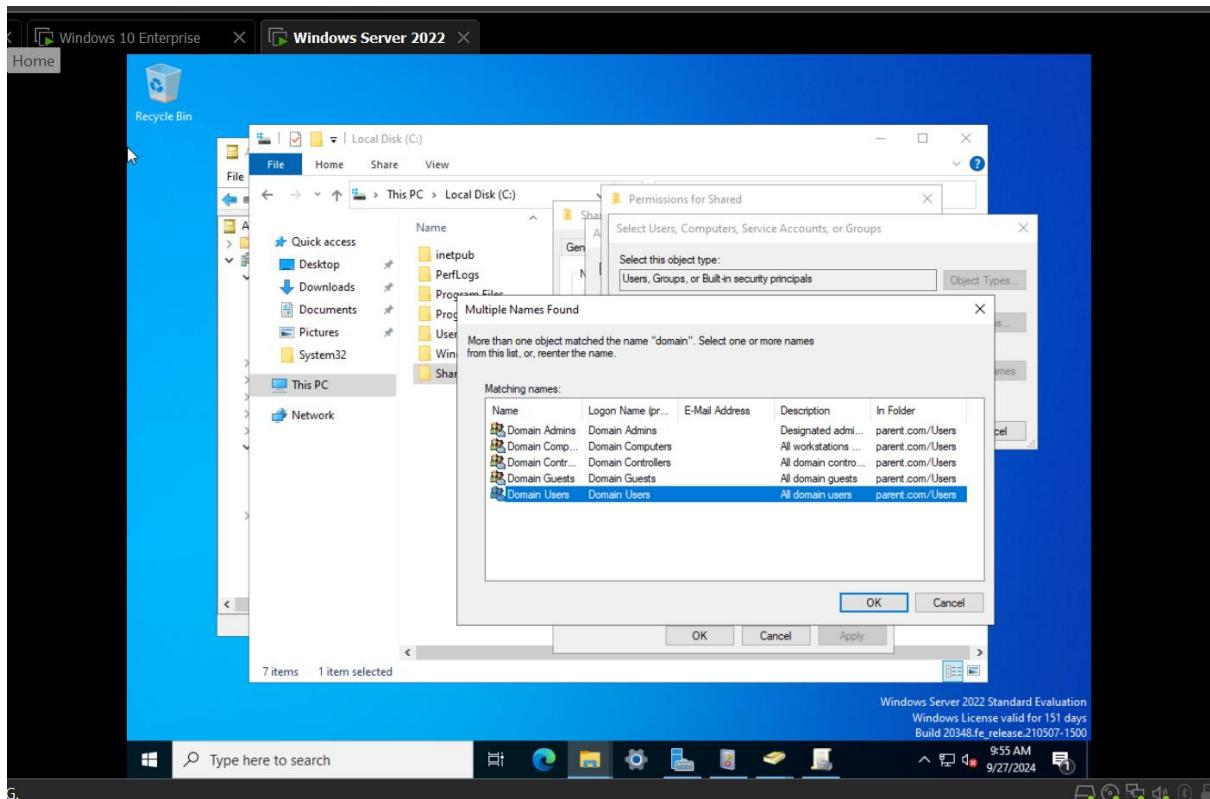
Now , Click on Add



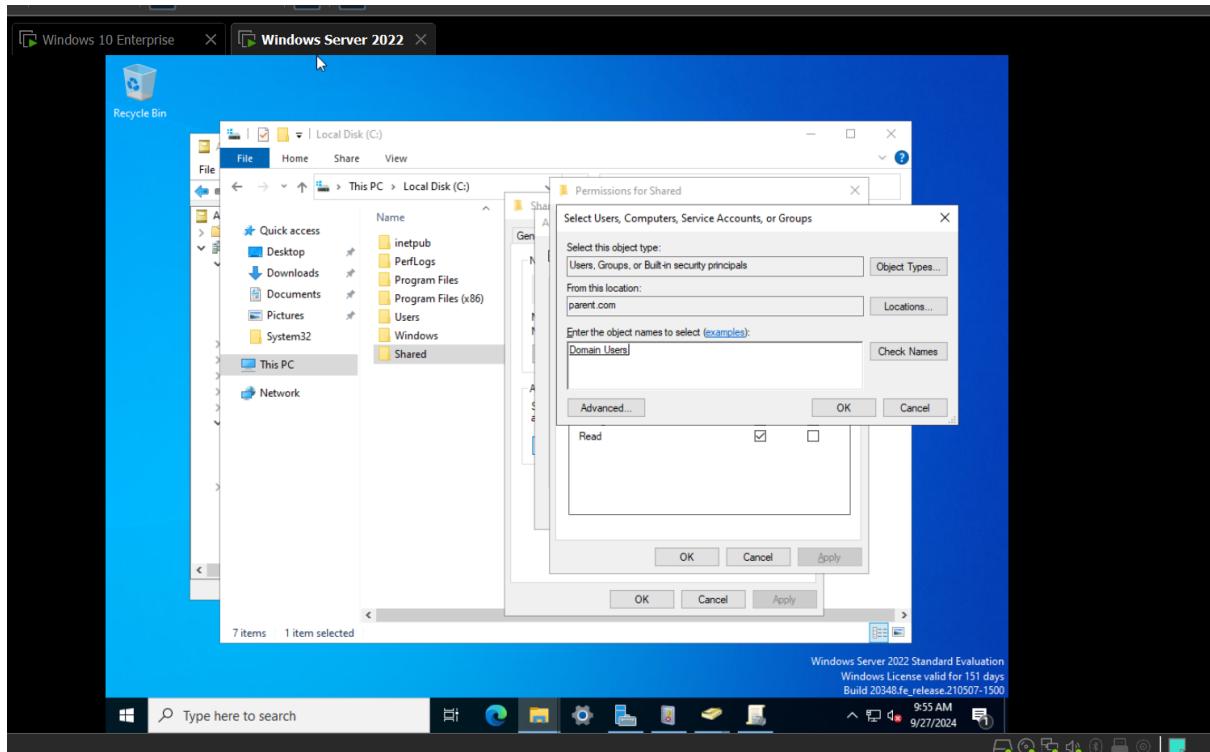
We can find Domain list there,



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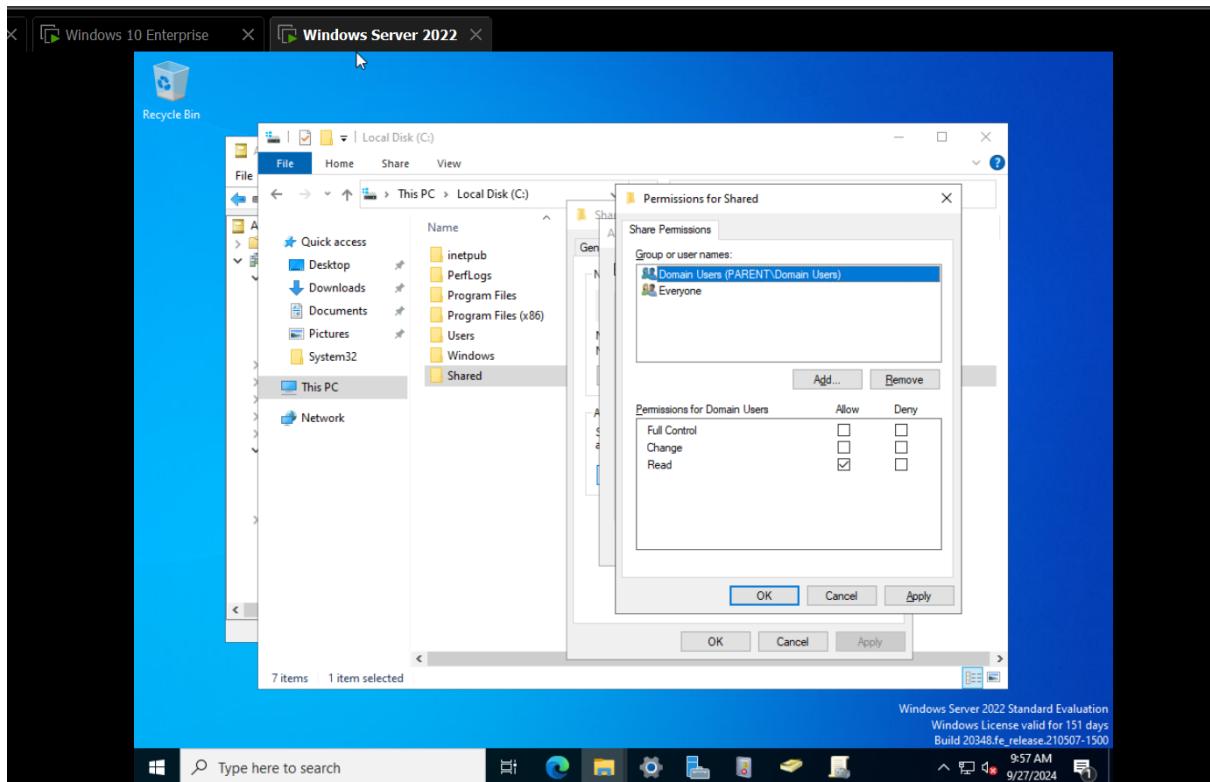
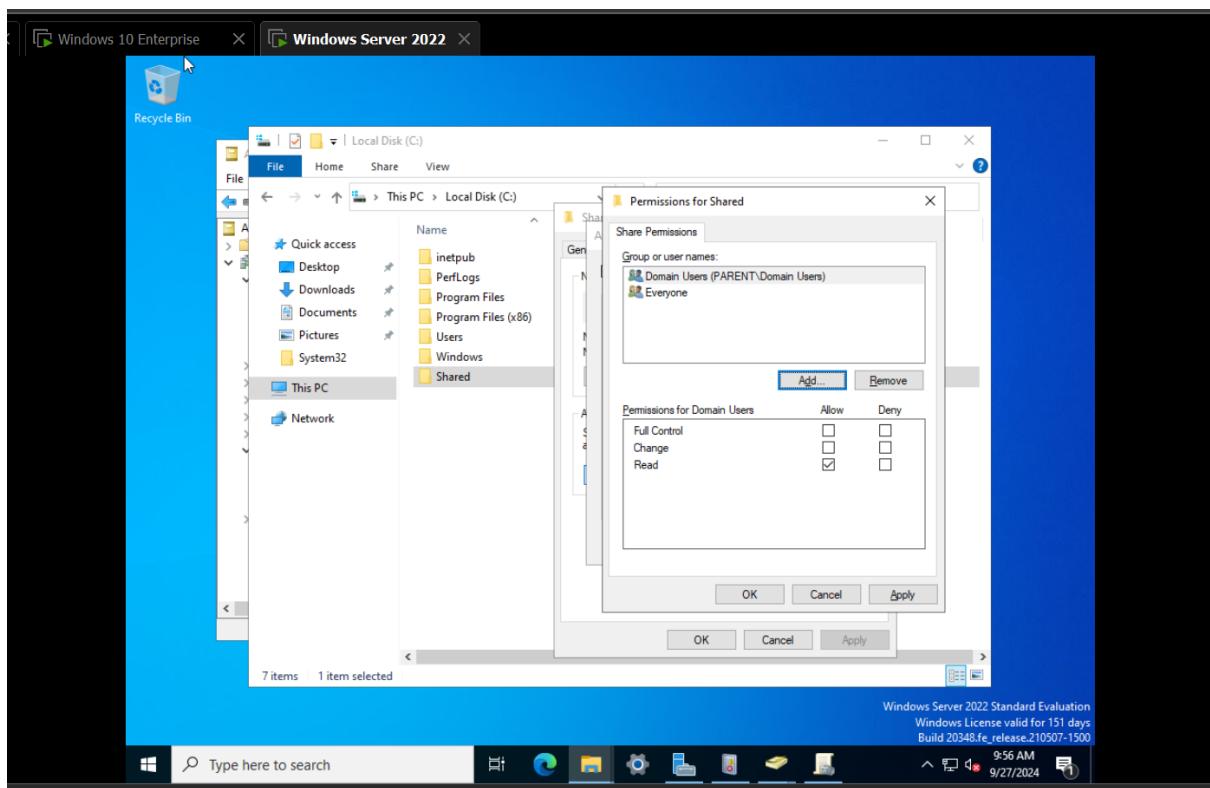


Click ok

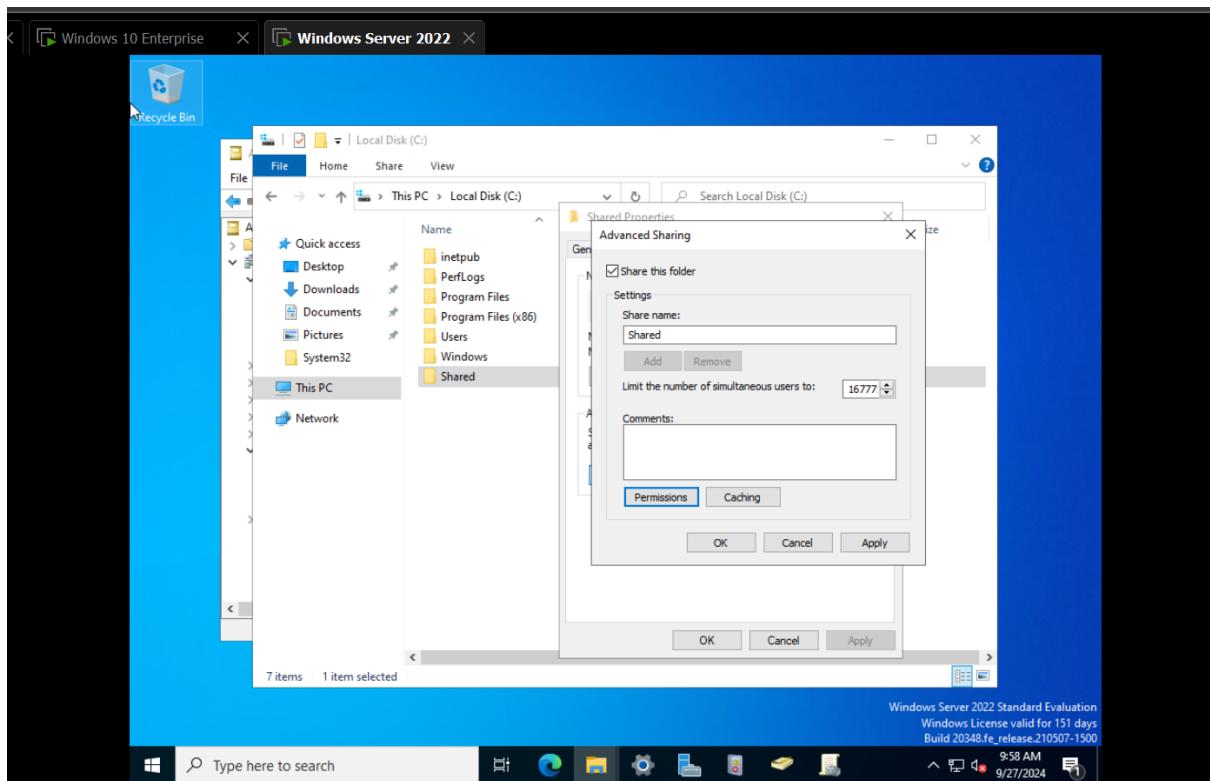
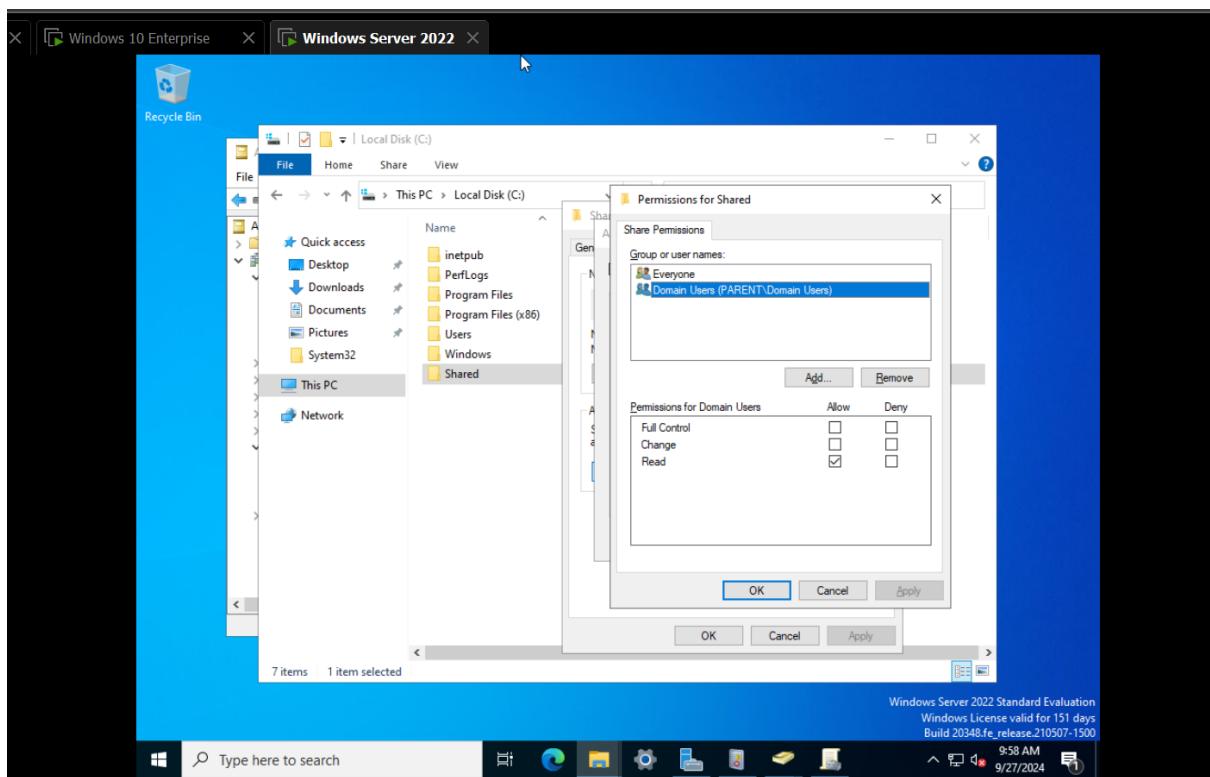


Now, we can see the below

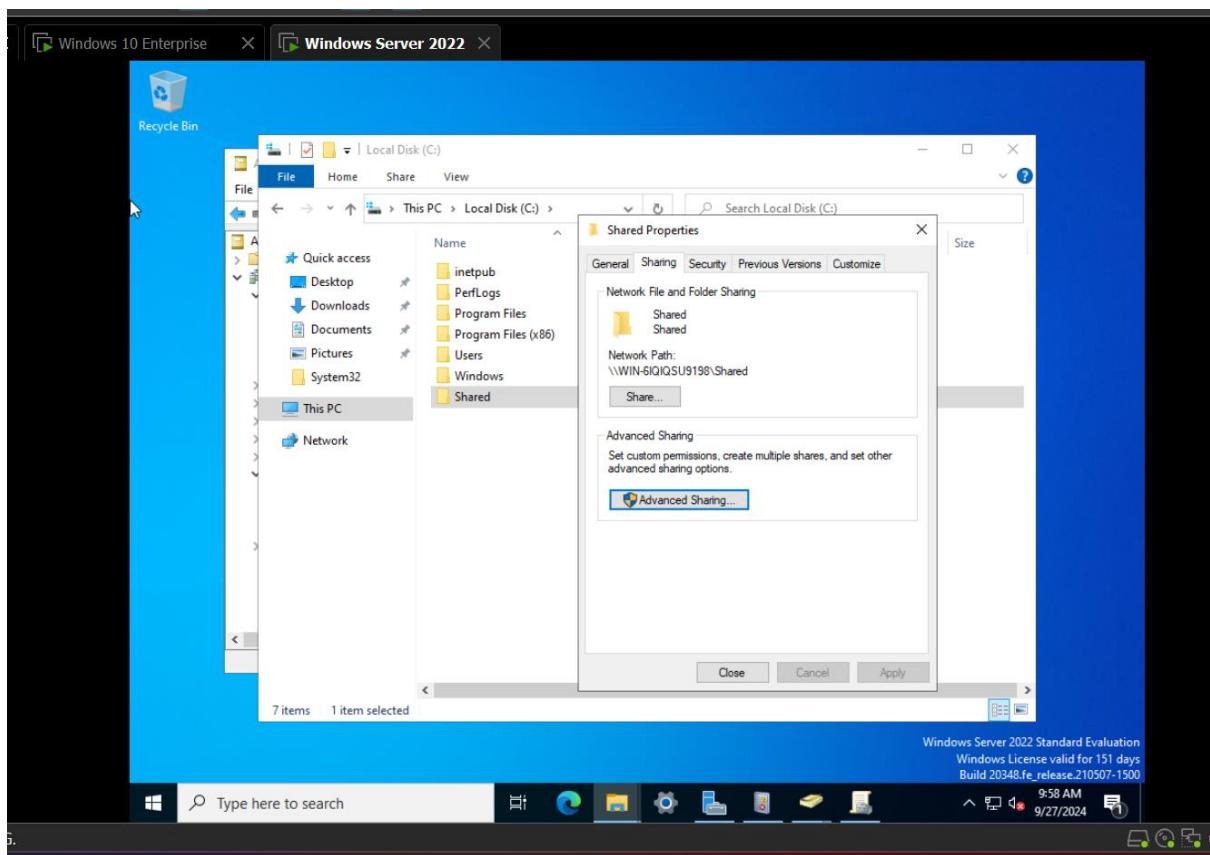
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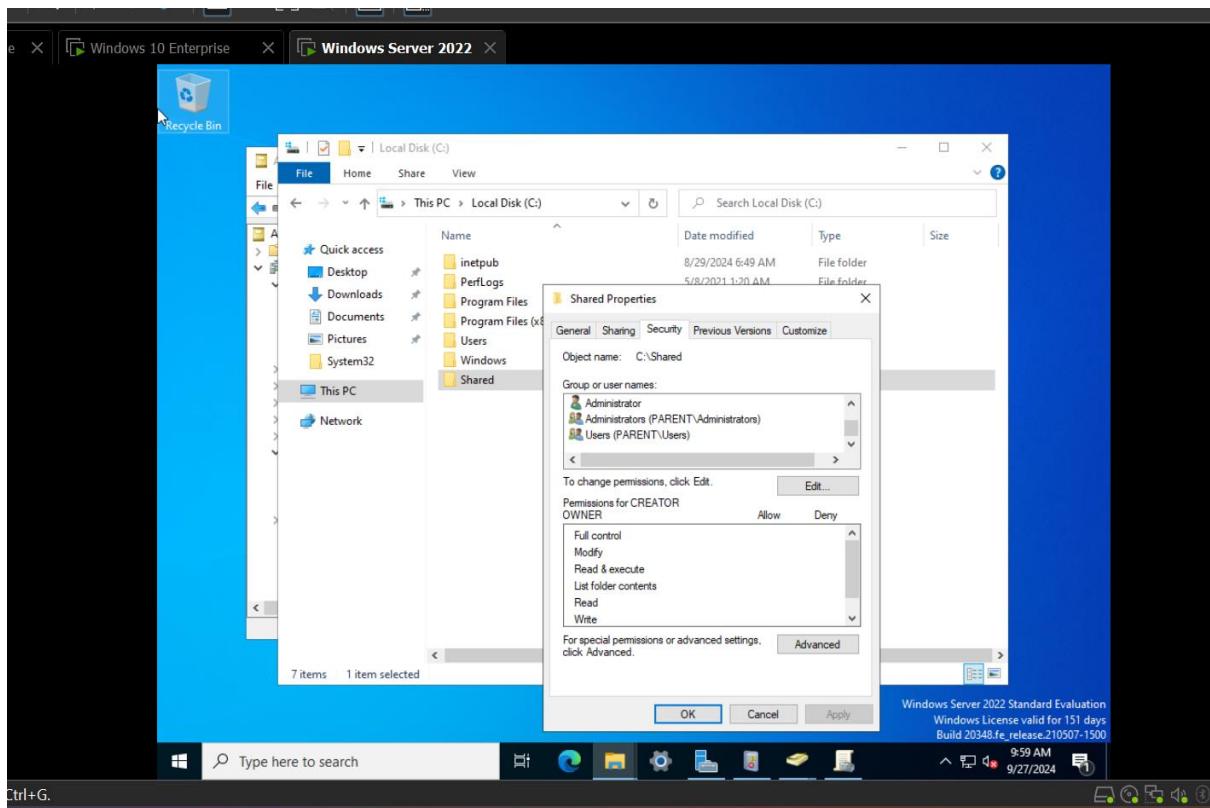
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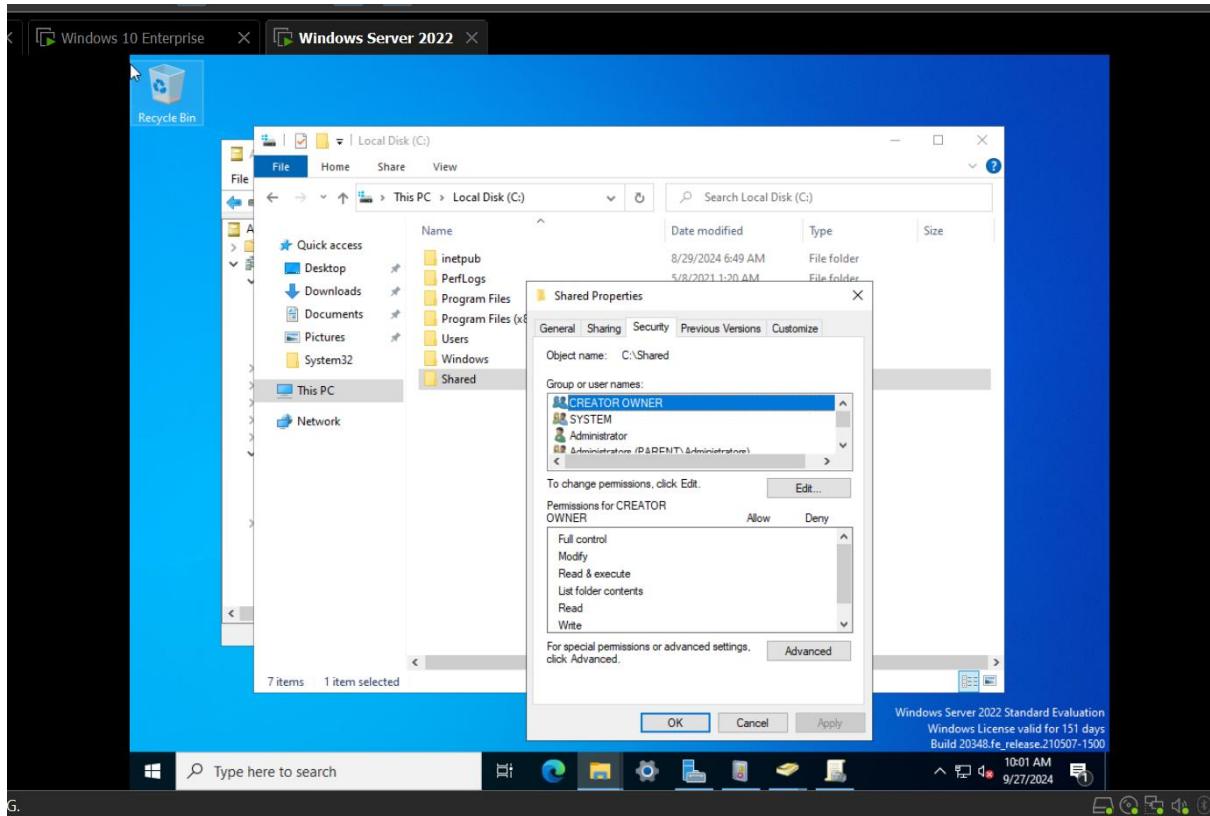


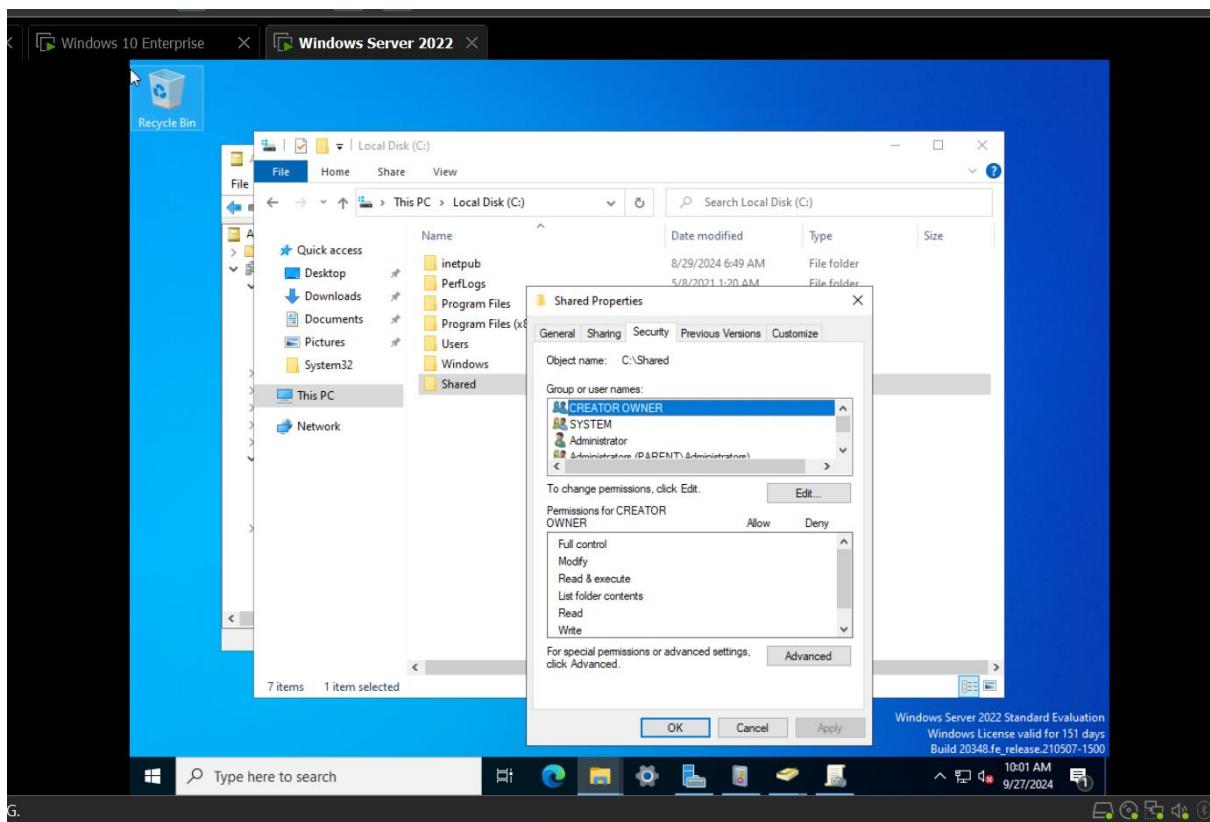
Now go to security tab



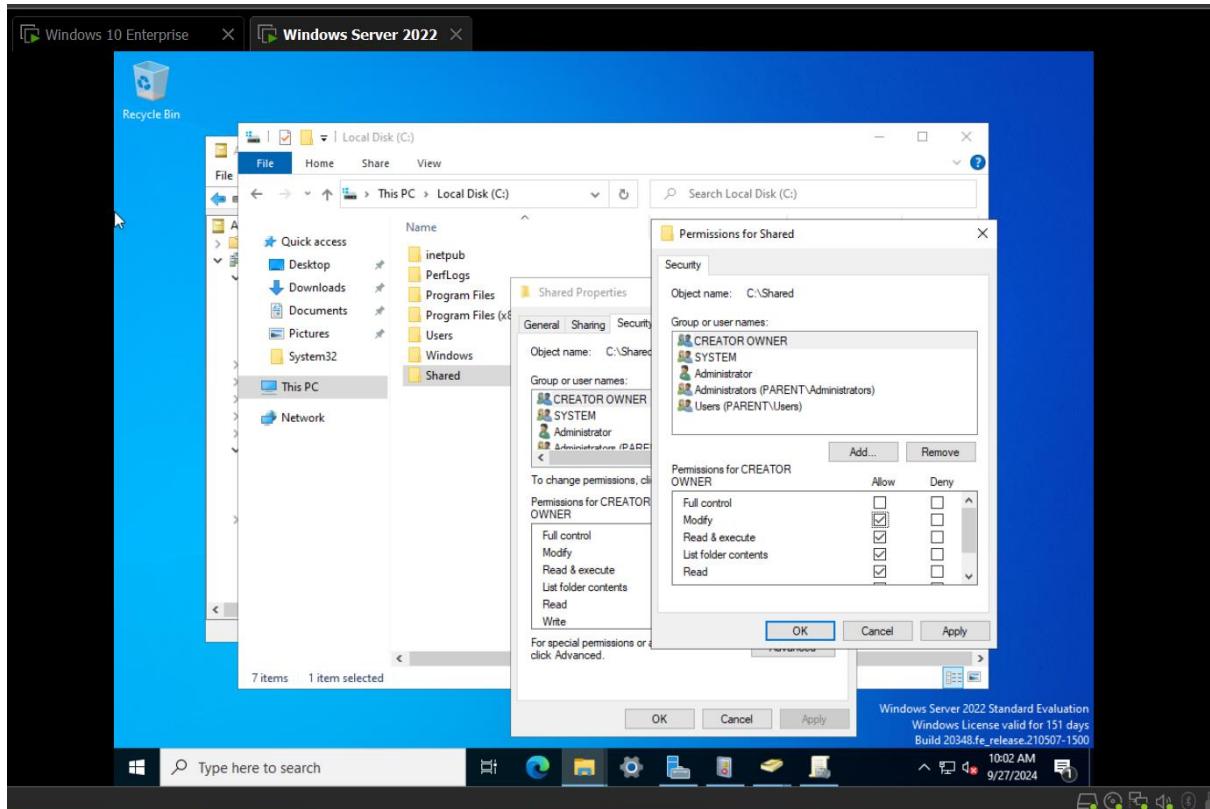
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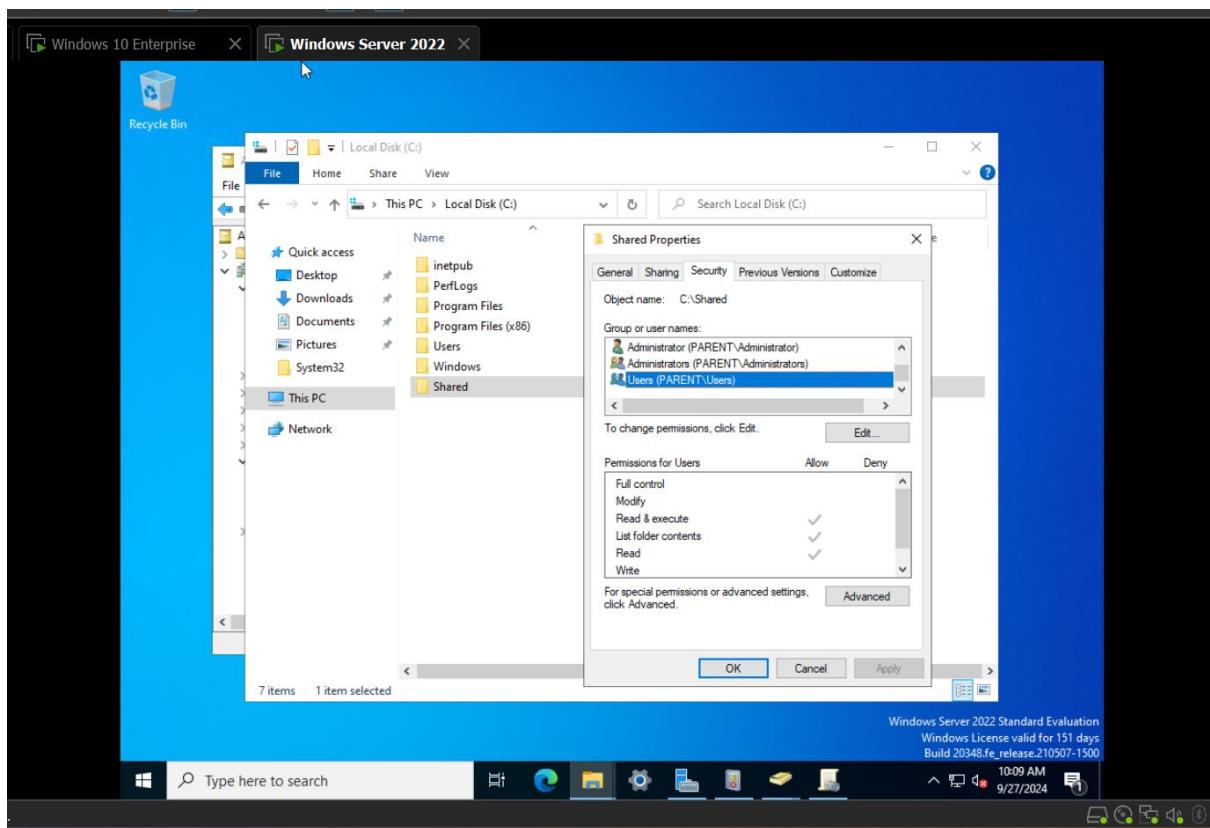
To have to give specific group then it permission by clicking edit button





We can give permission as you want then click apply.



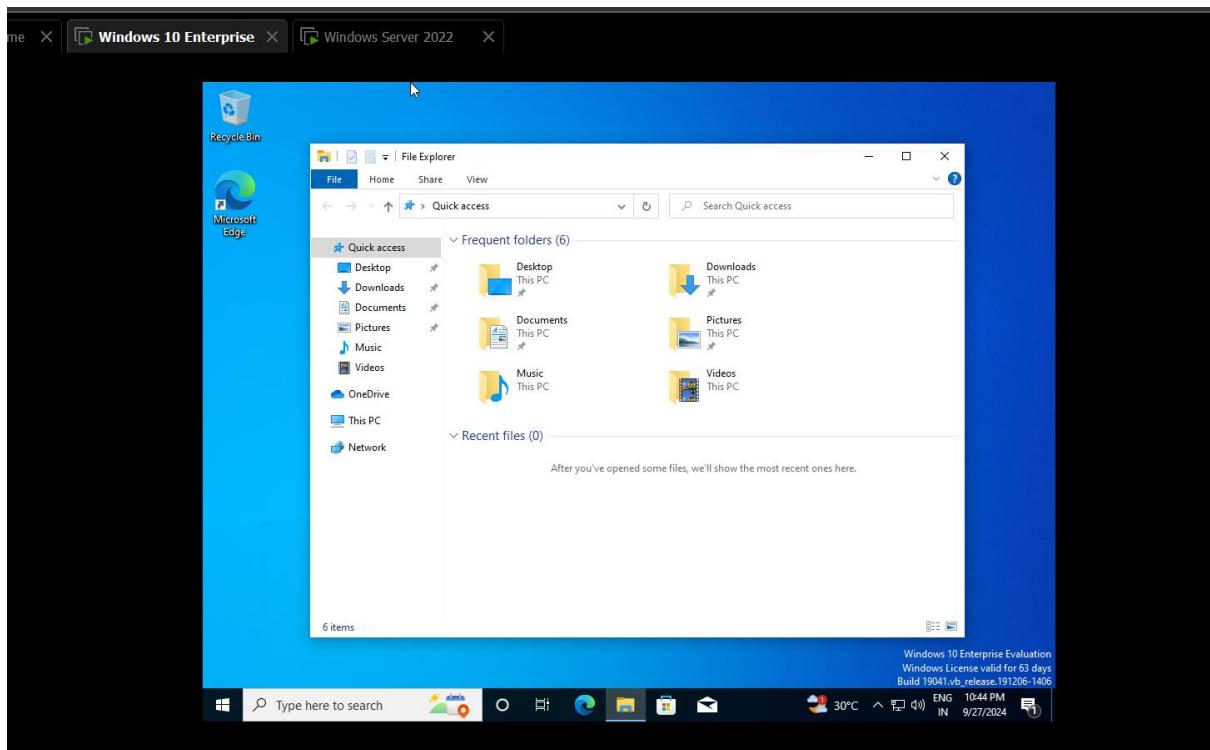
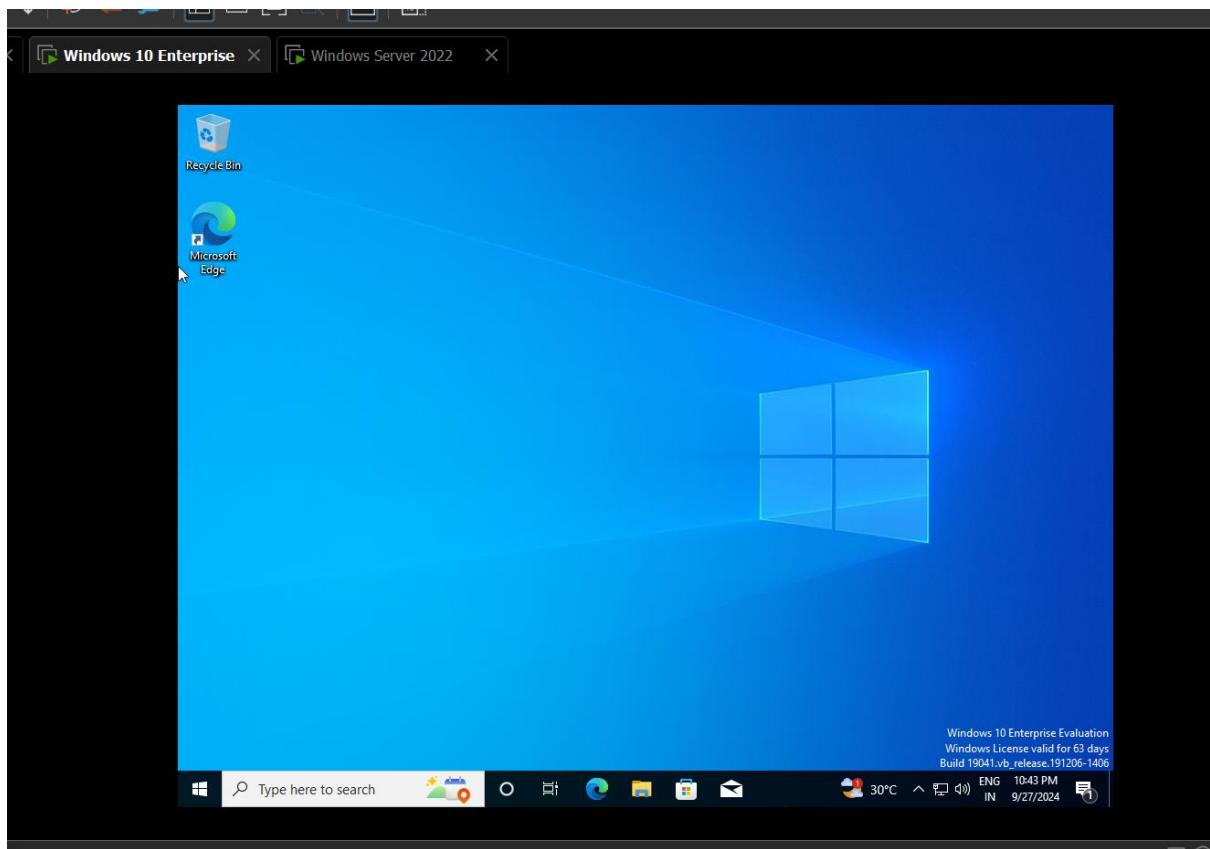


Activity 2: Set UP Client Machine

Access Shared Resources

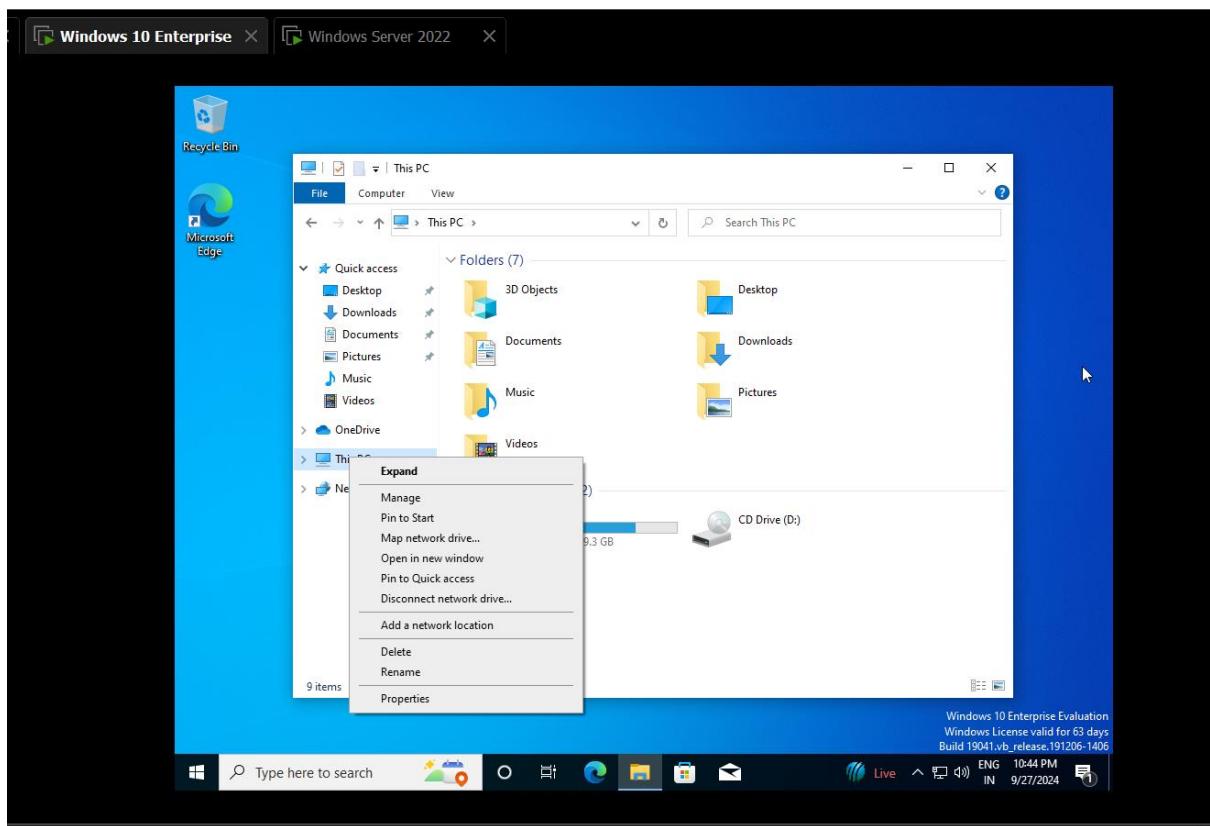
Log in to the client machines using domain user accounts.

Map network drives to access shared folder.

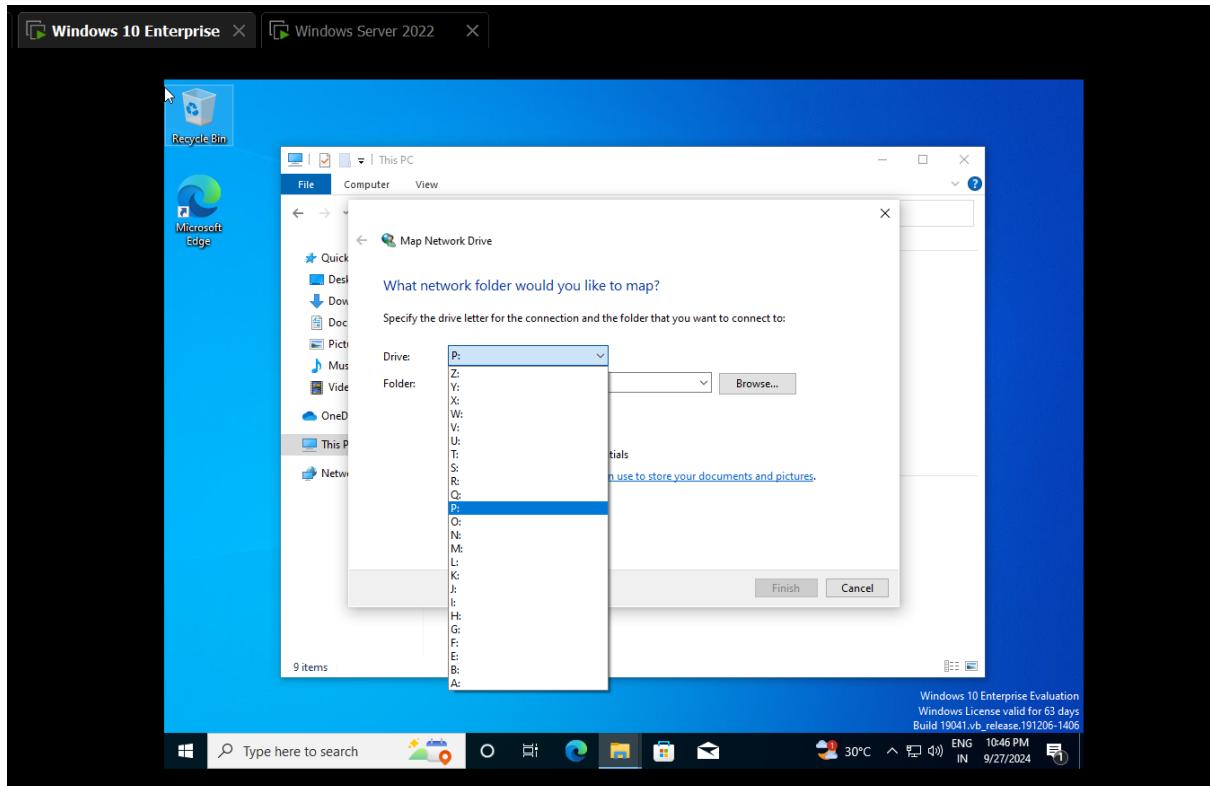


Right click on “This PC” select the “Map network drive”

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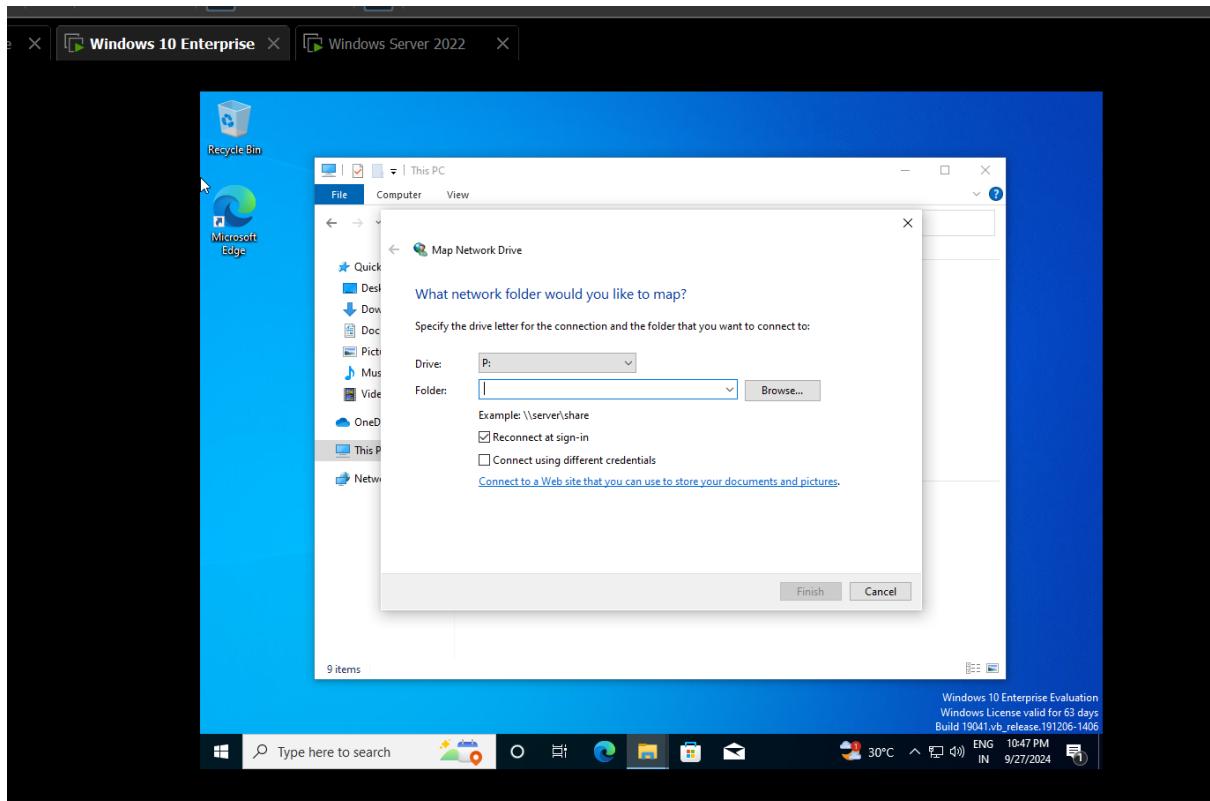


Select the Drive which you want , here I select P

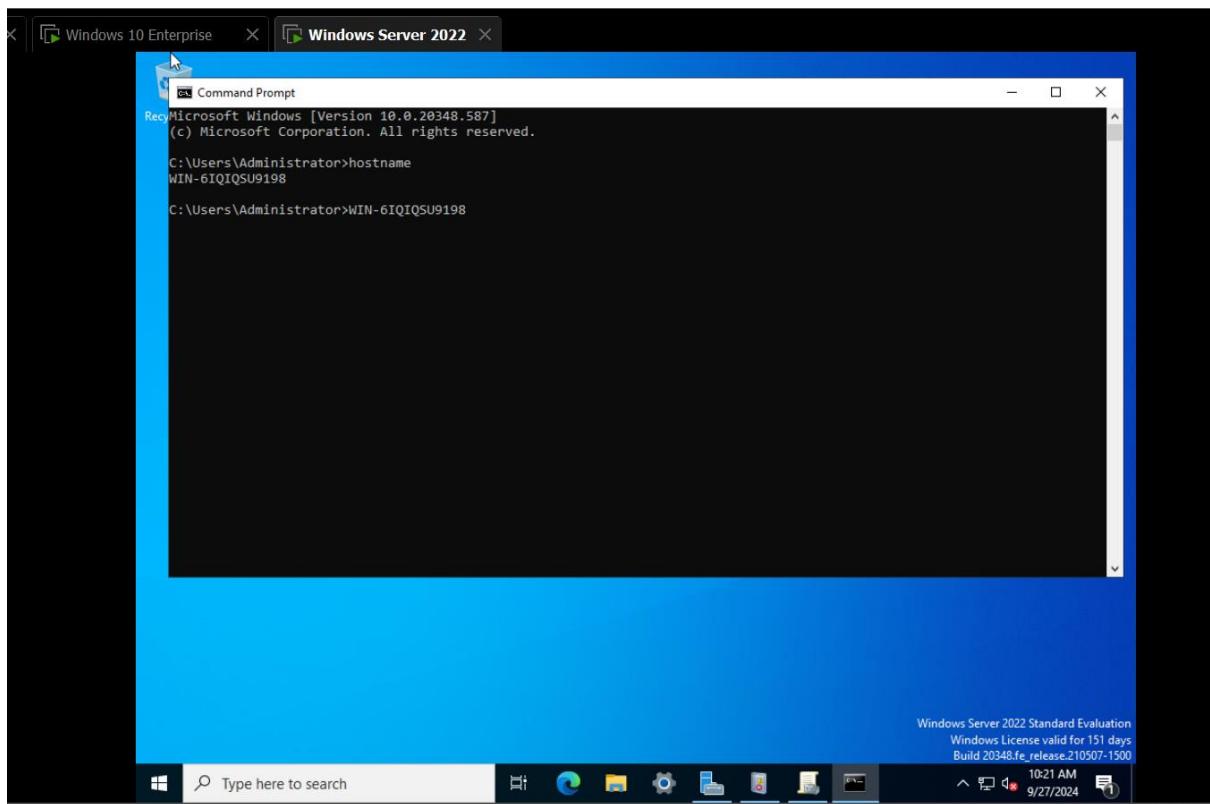


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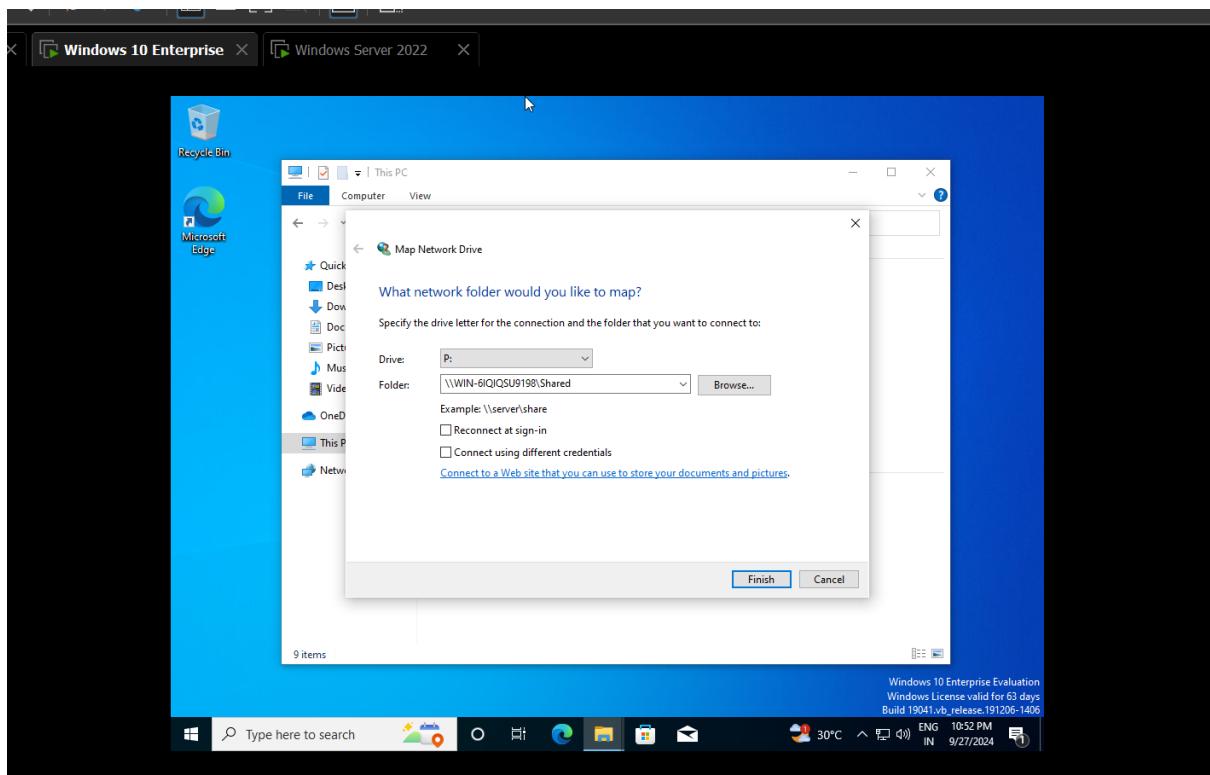
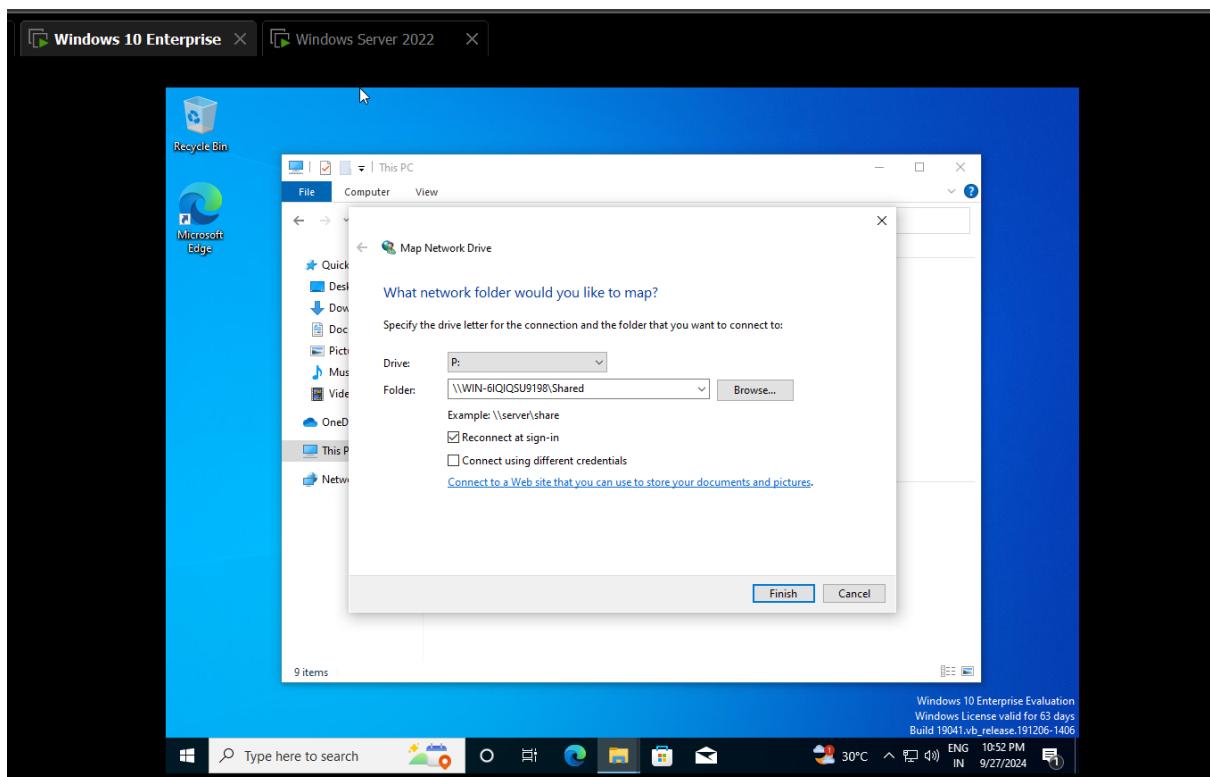
Here in the folder name, you have to type the server name.



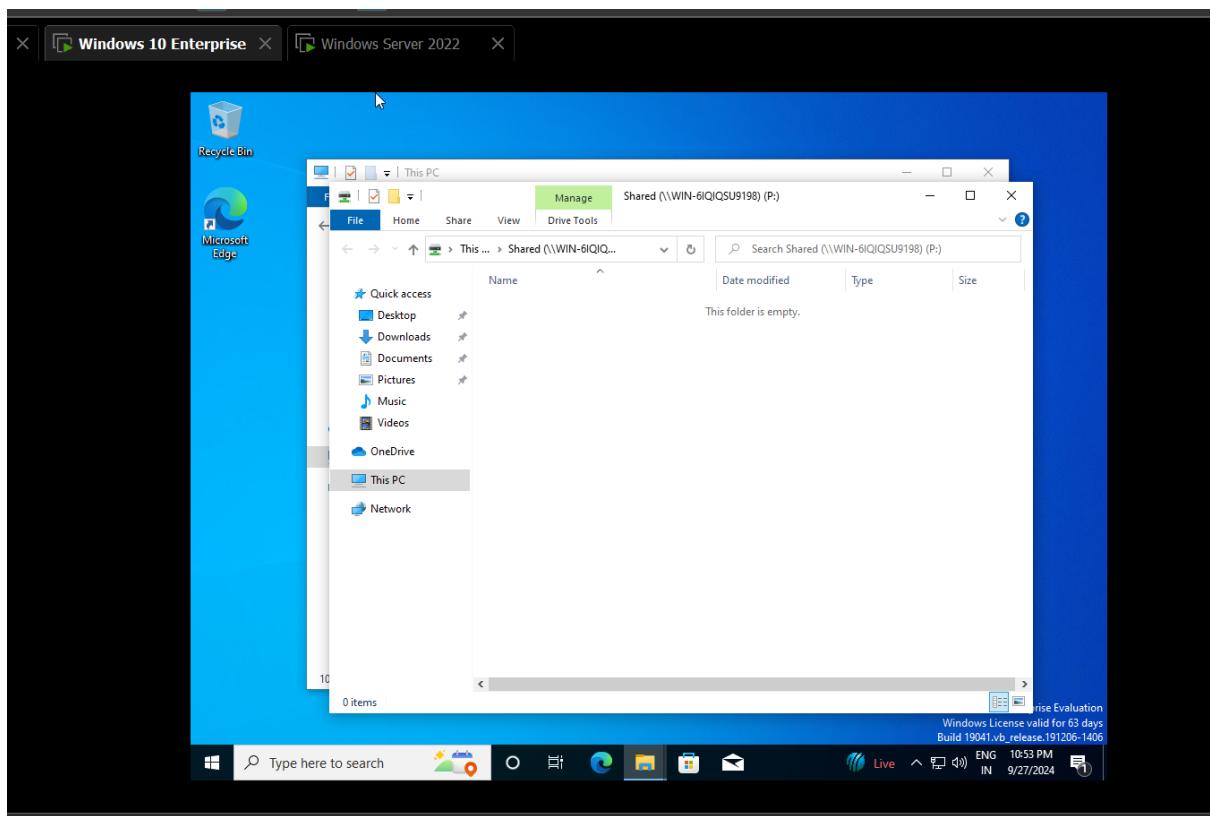
If you don't the server name, go to server open cmd and type "hostname".



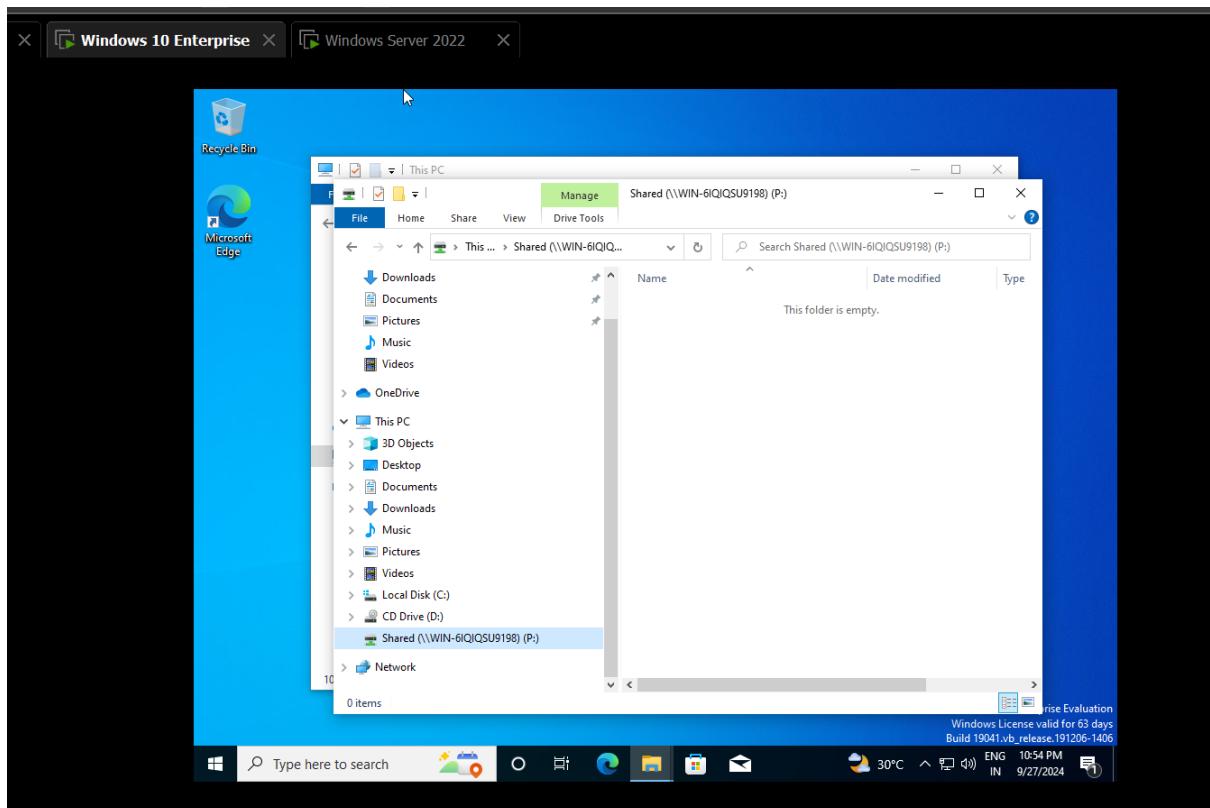
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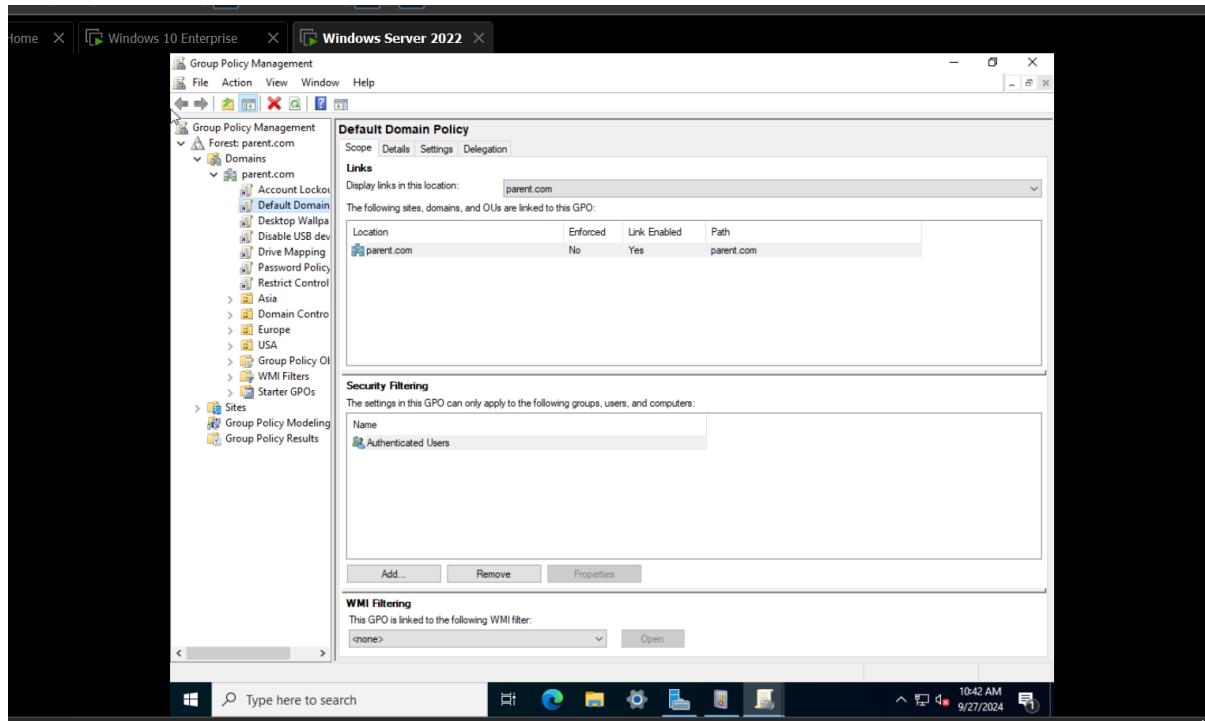
We discussed before that, it was Mapped Sharing method. It is only used of

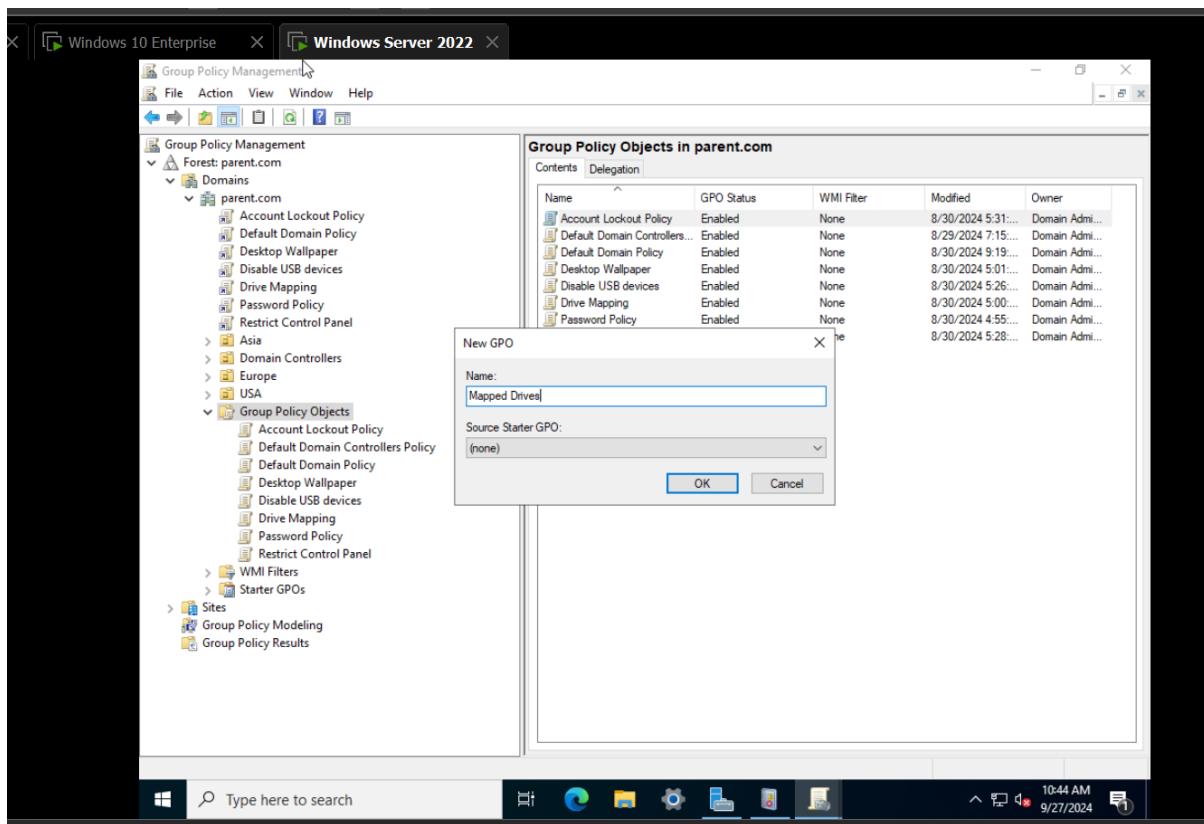
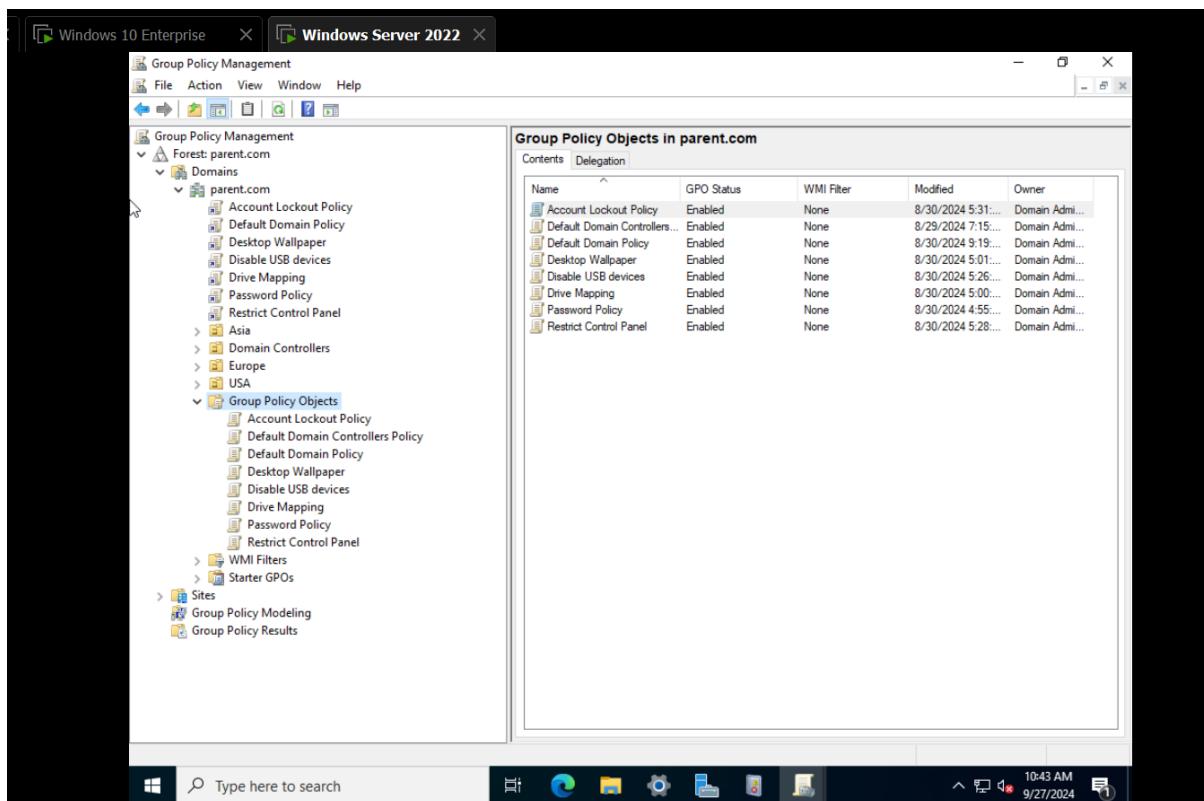


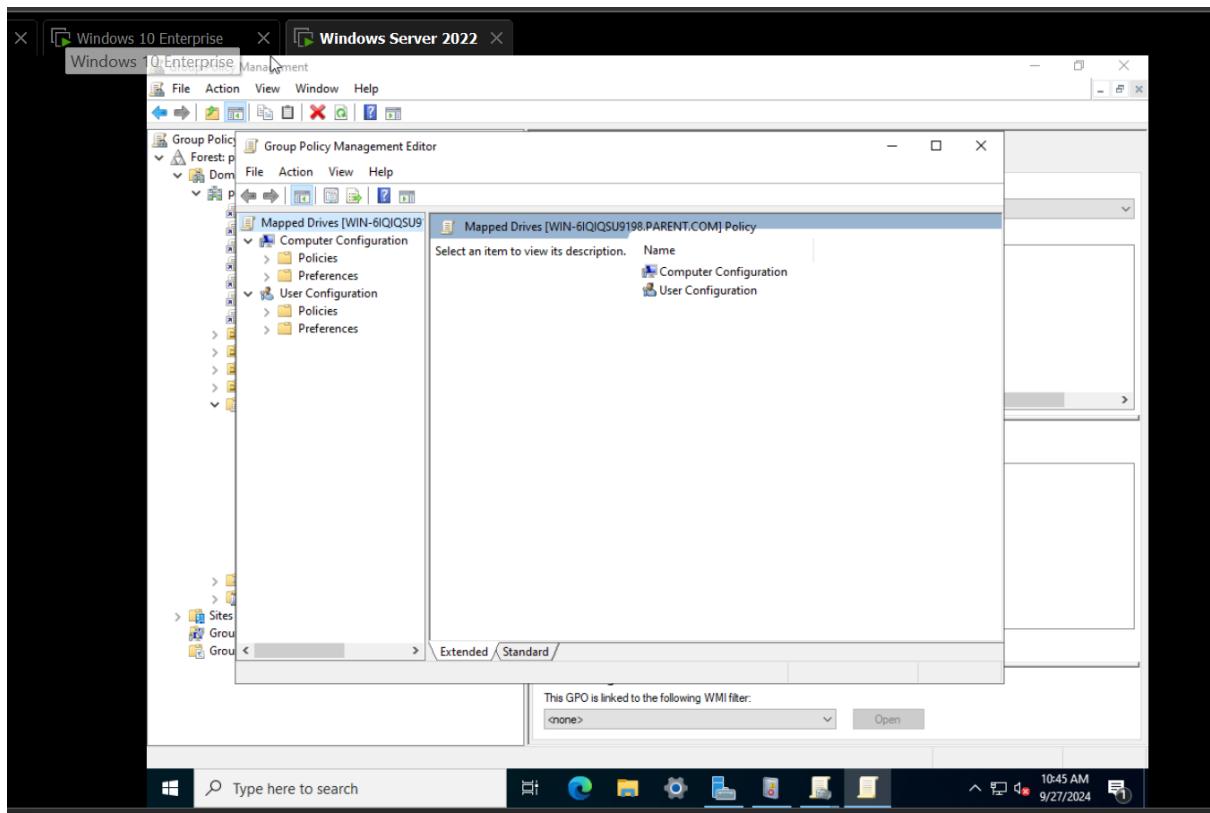
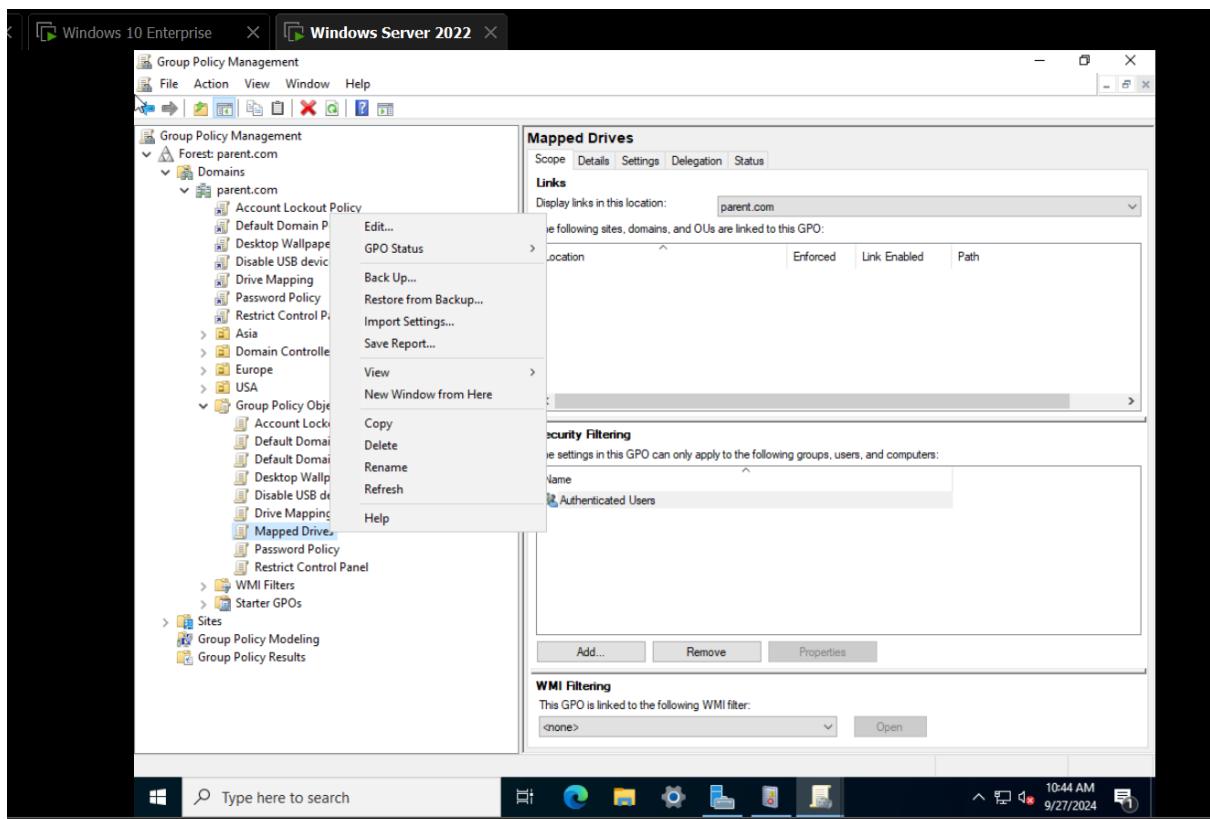
Activity 3: Network drive GPO setup- GPO Configuration

Configure Group Policy Objects (GPOs) to automatically map network drives for users.

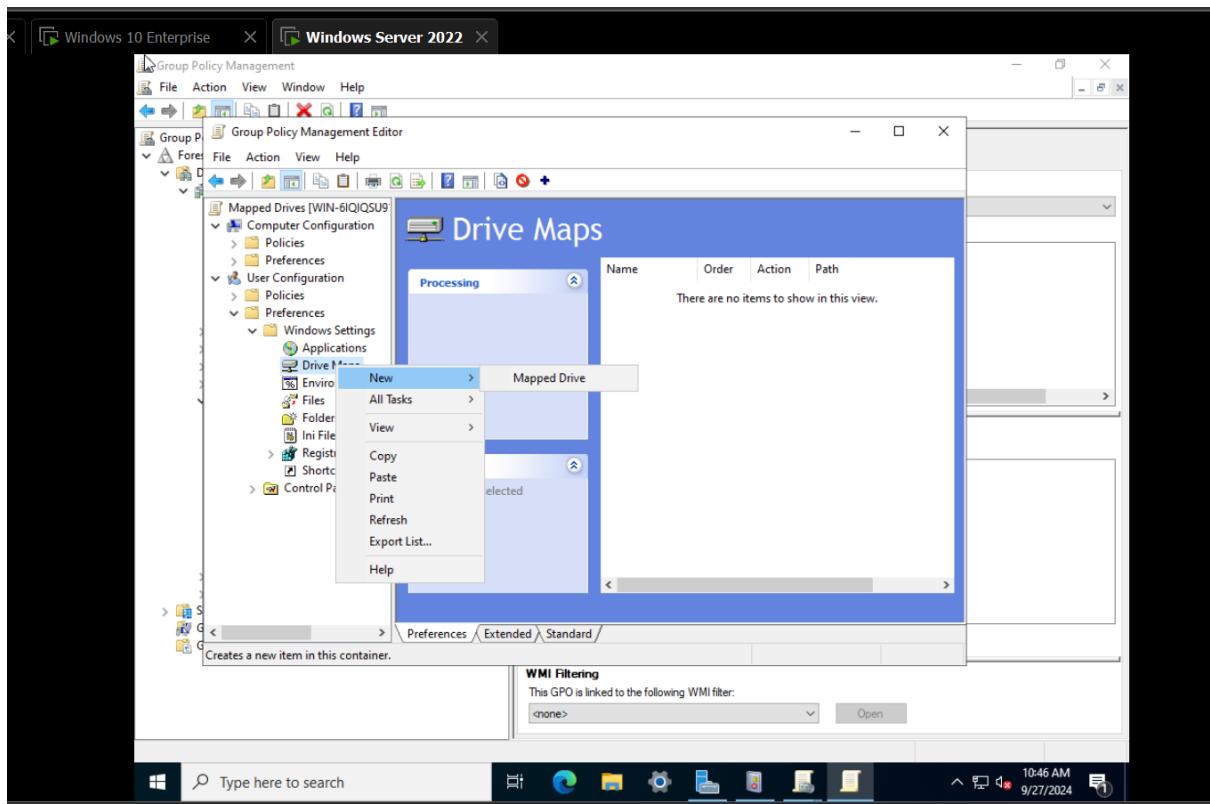
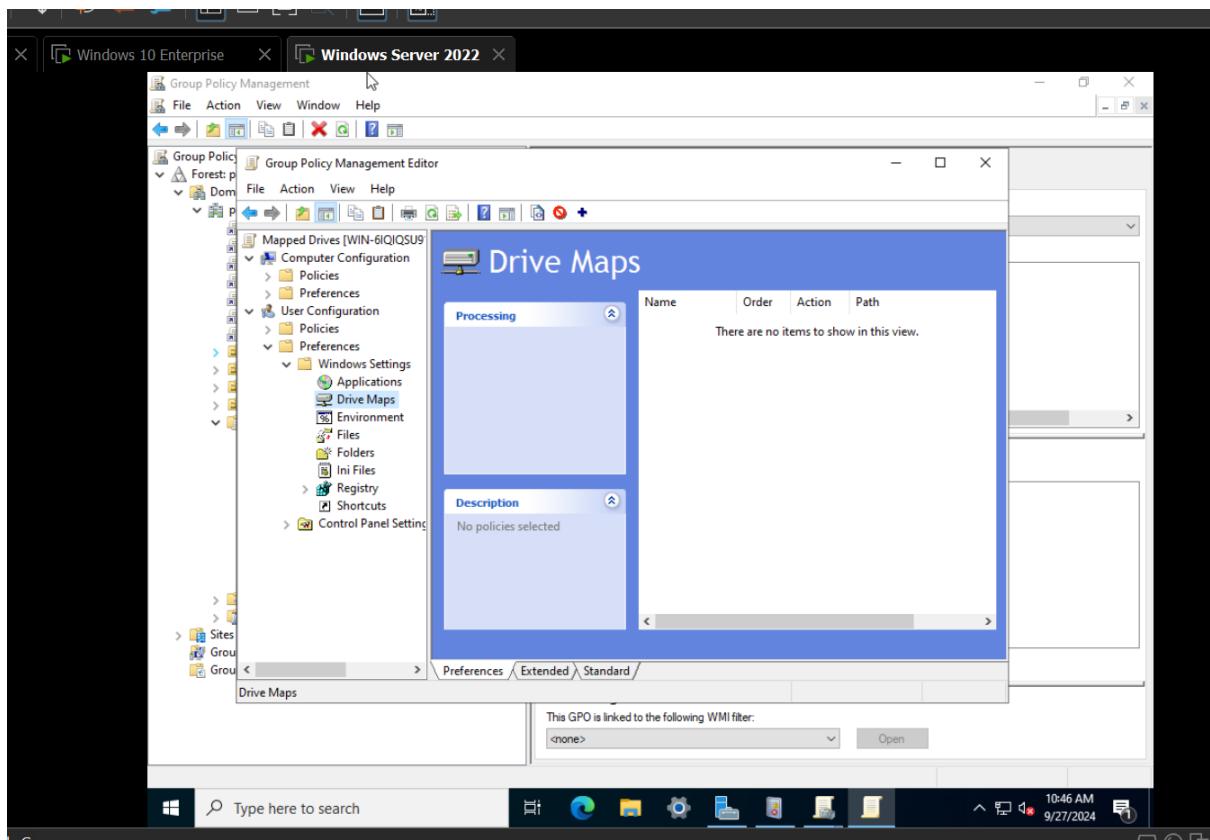
Go to Windows server,



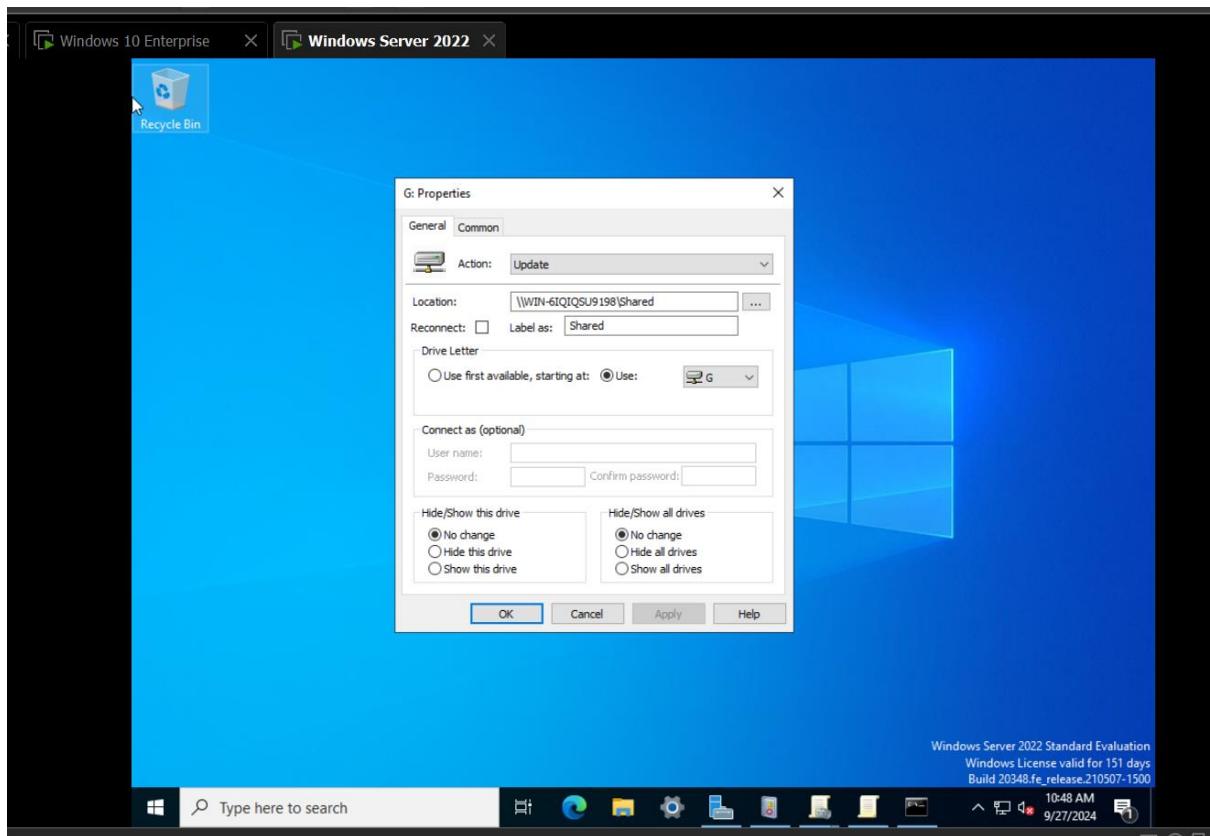
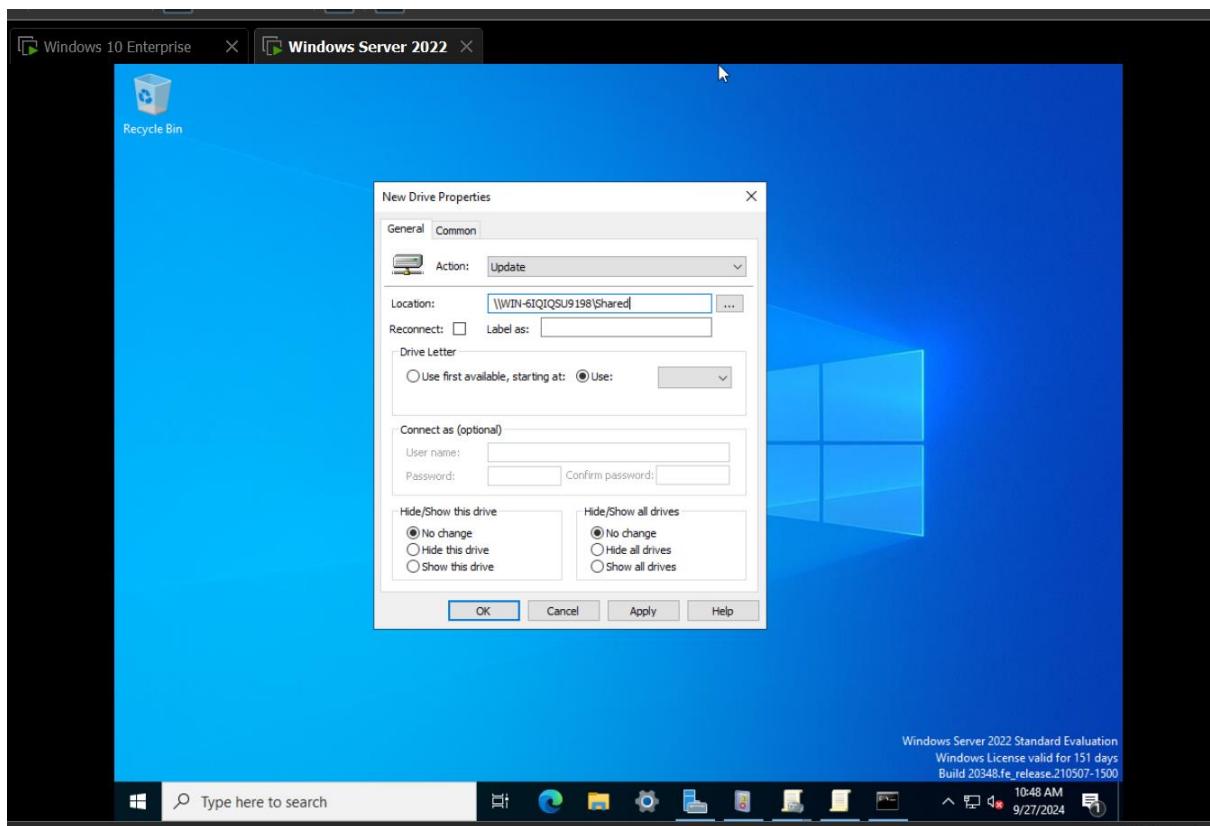




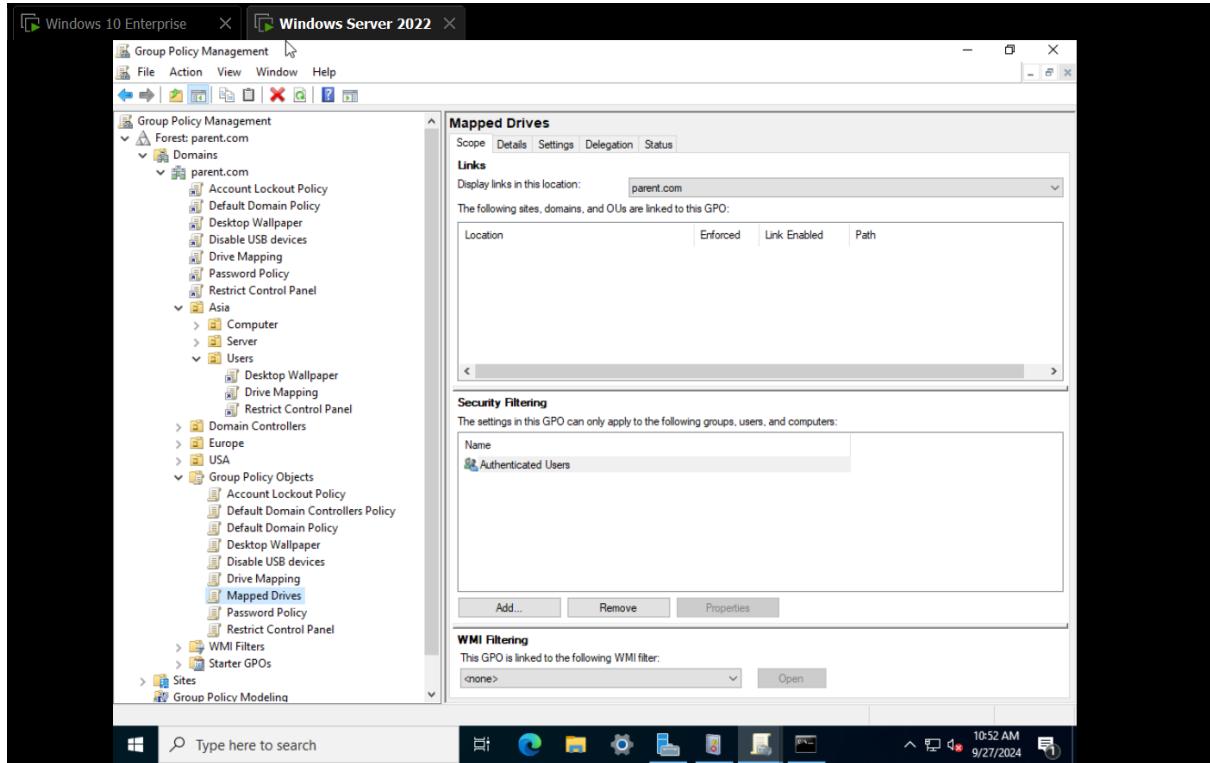
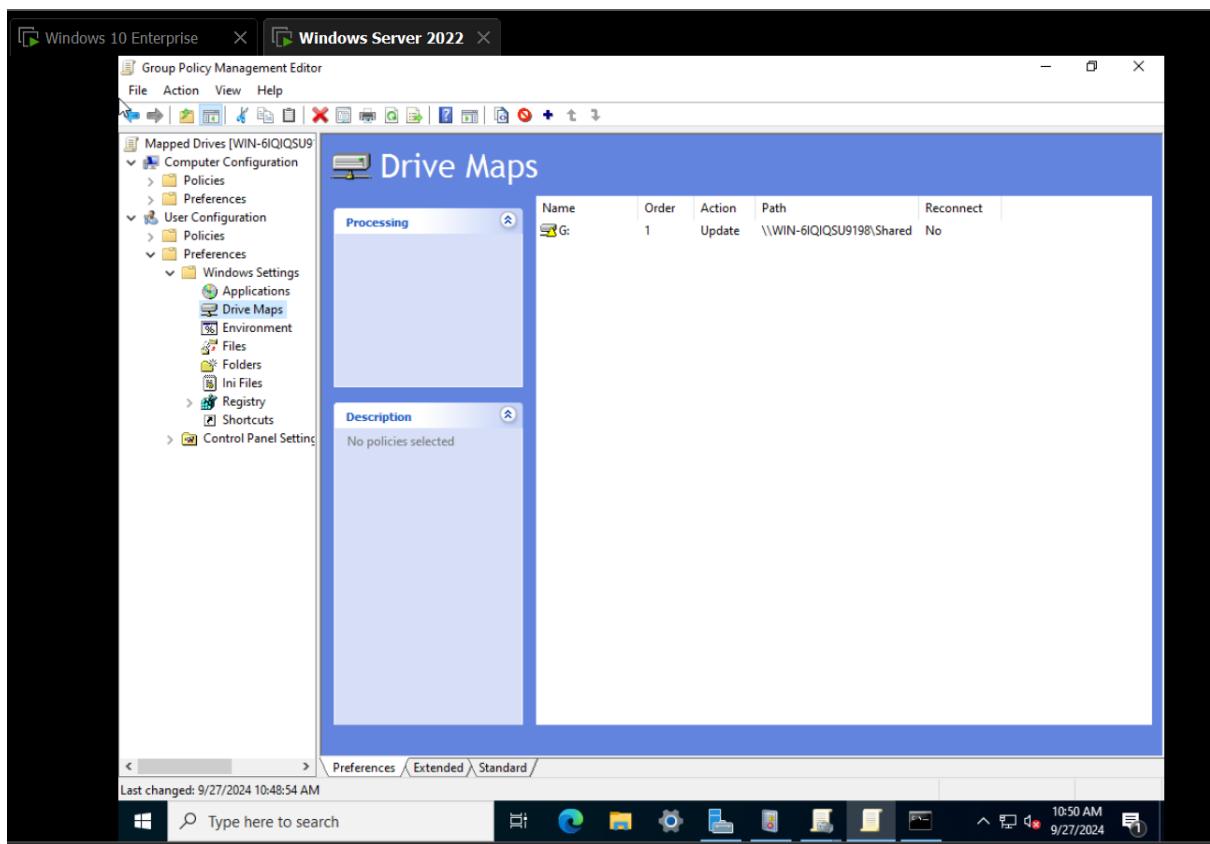
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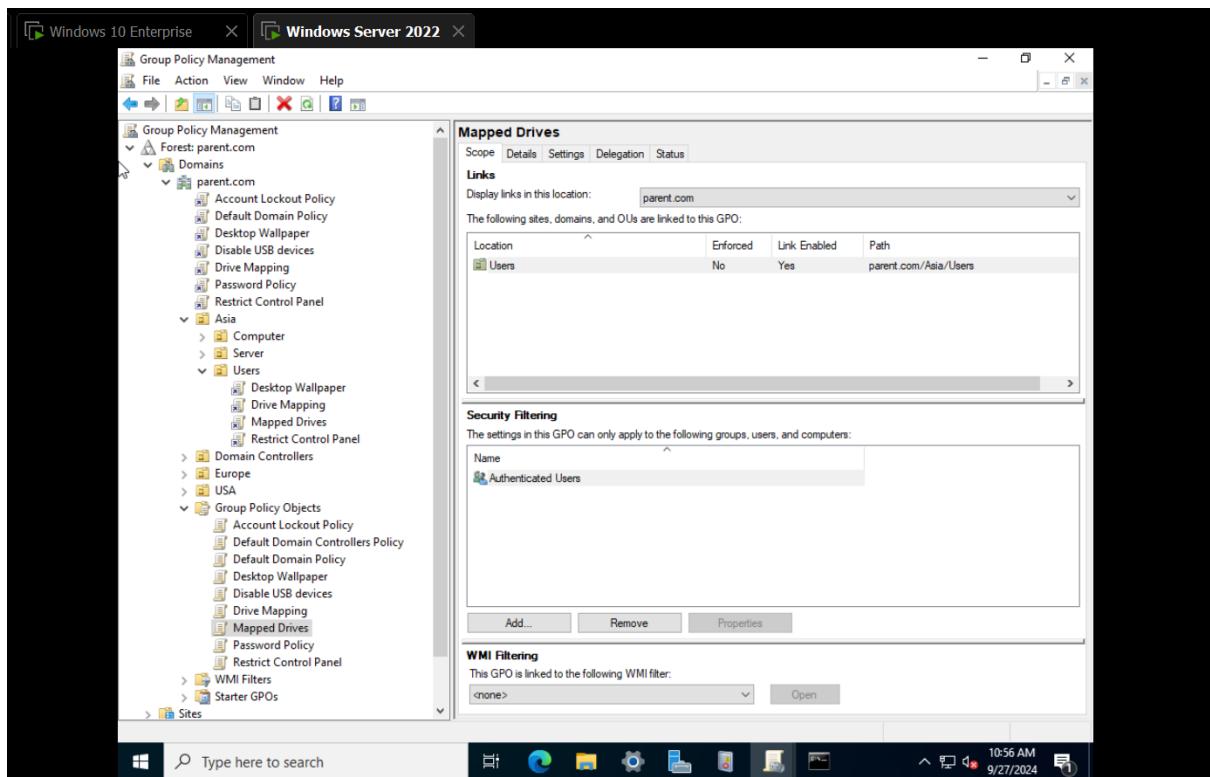
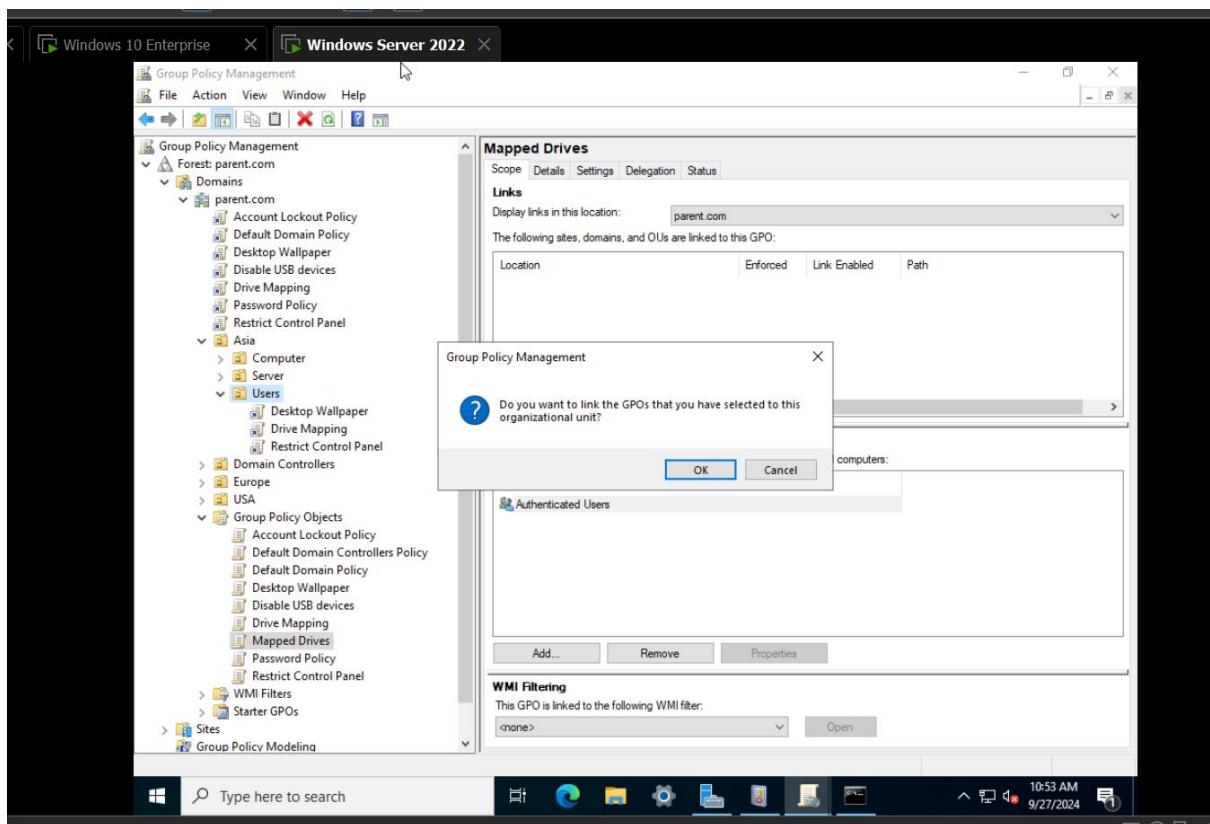
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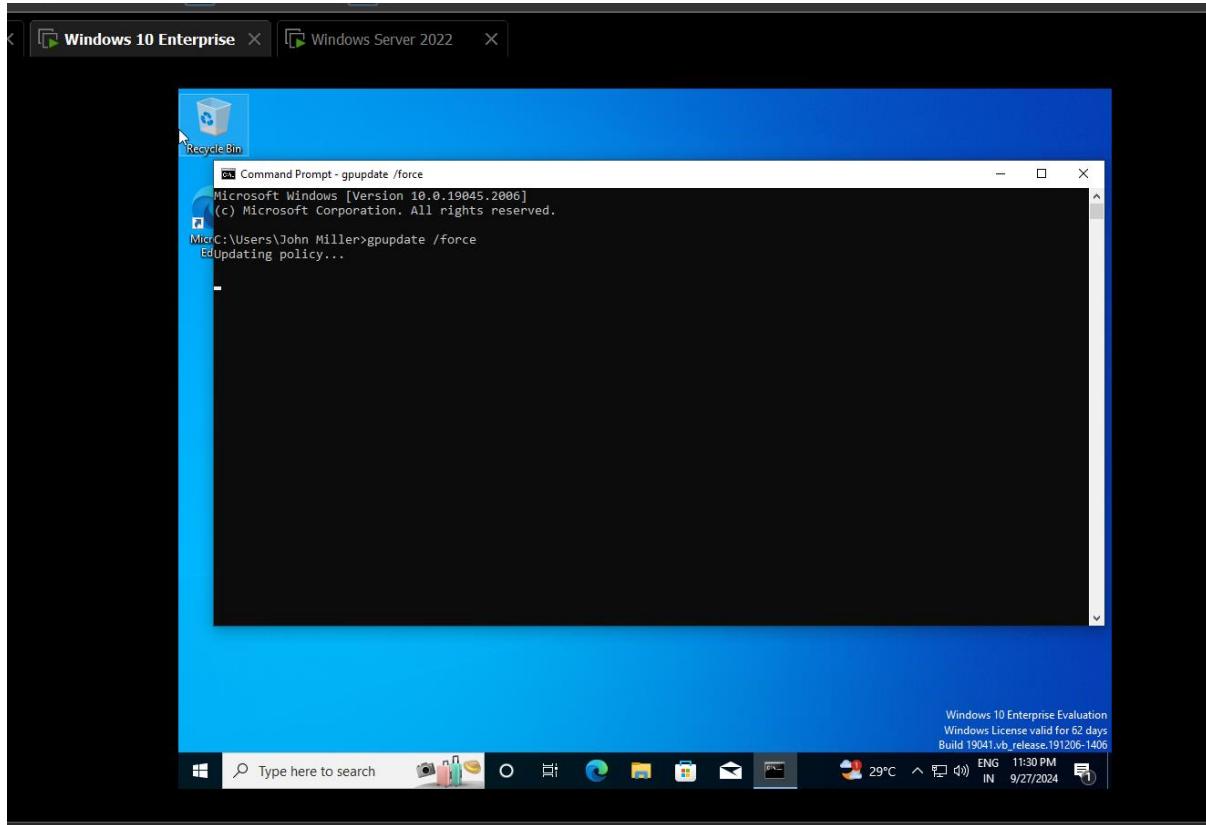


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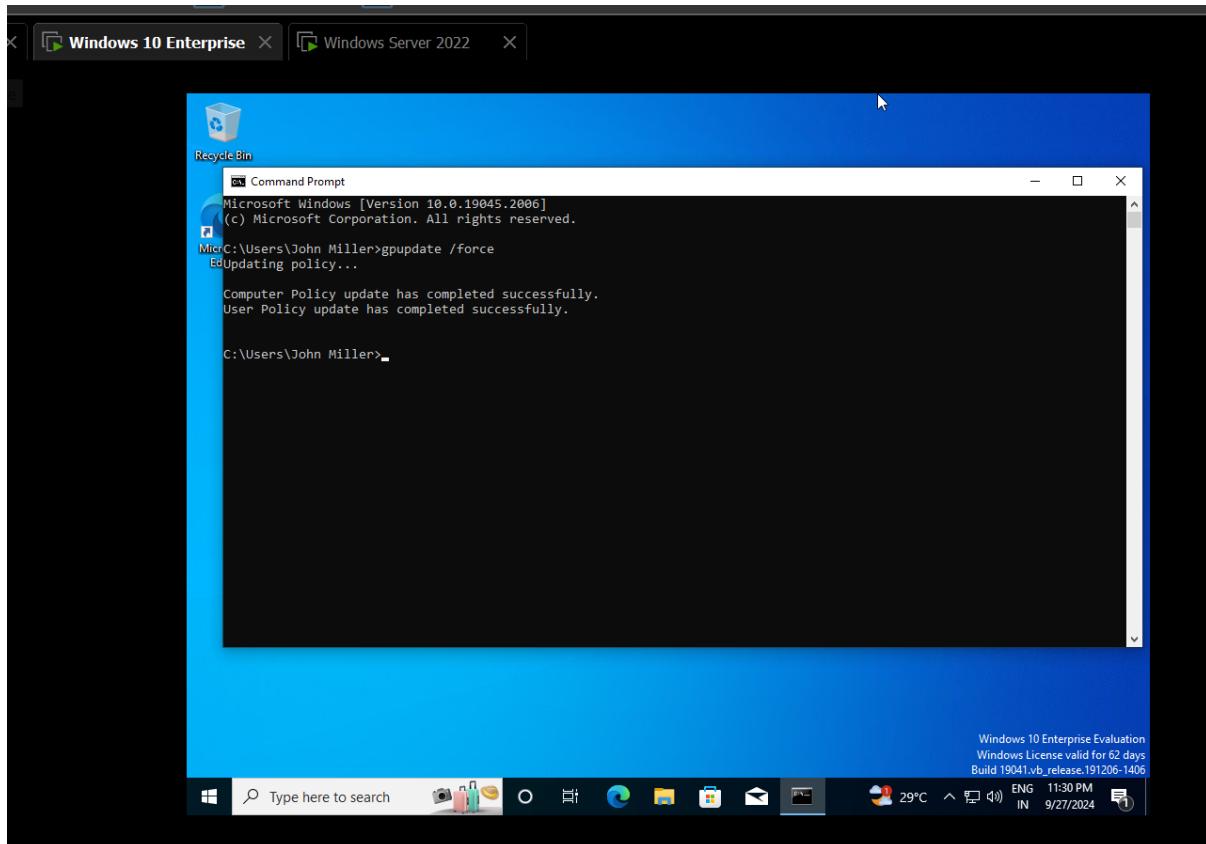


To test, go to client machine

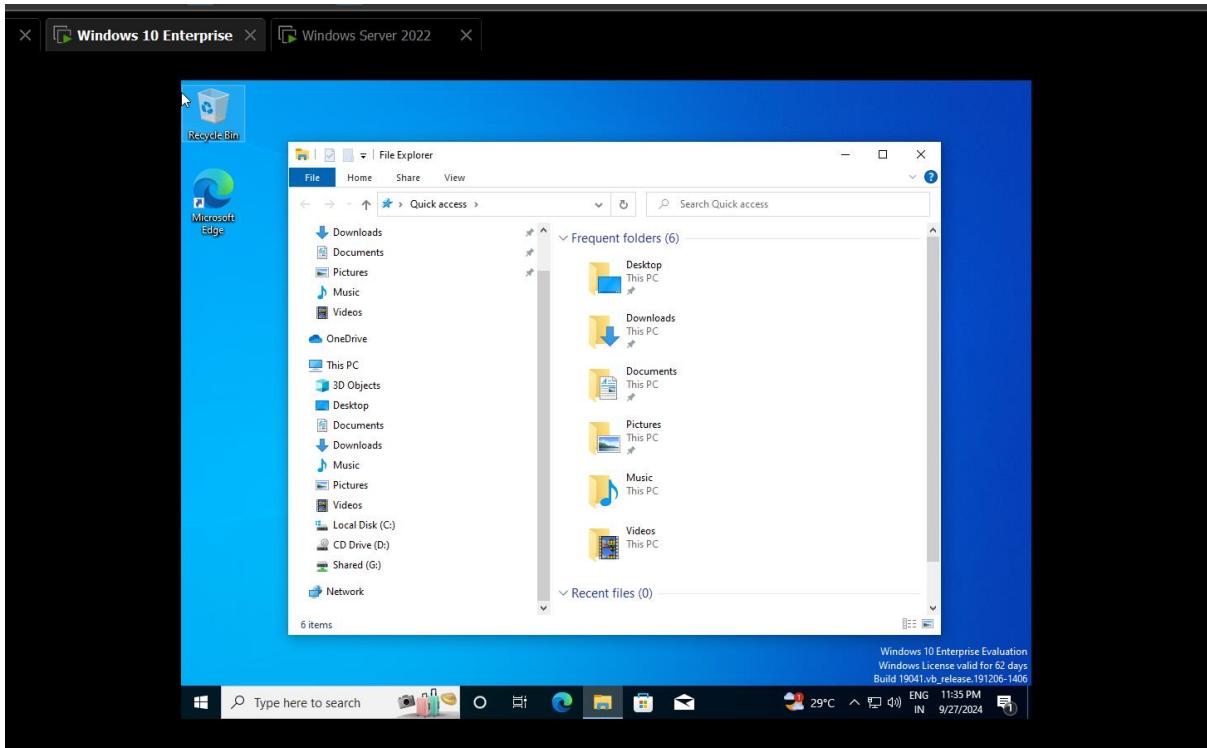
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After wait time it will be done then restart the client machine.



Now we can see that drive in client machine.



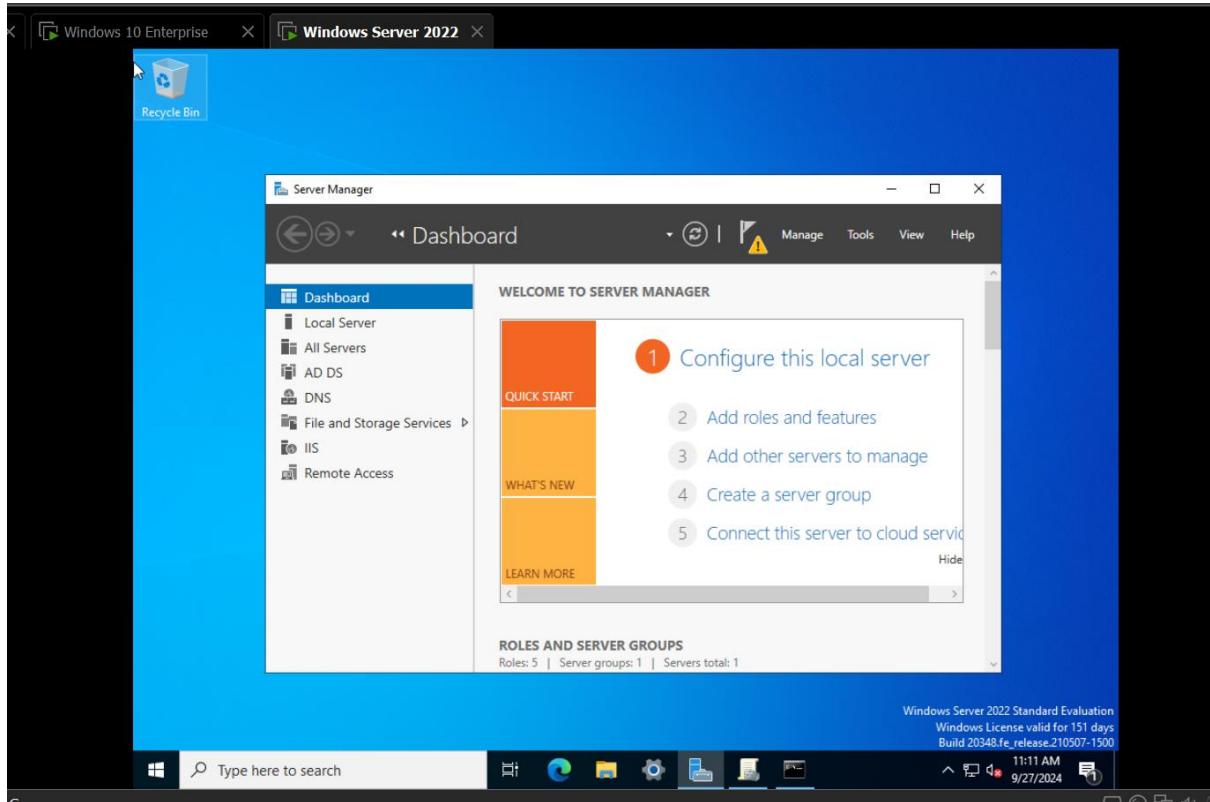
Activity 4: Implement quotas and file screening using File Server Resource Manager (FSRM)

Configure FSRM to create Quota Template and file screen template to effectively manage file storage in your organization.

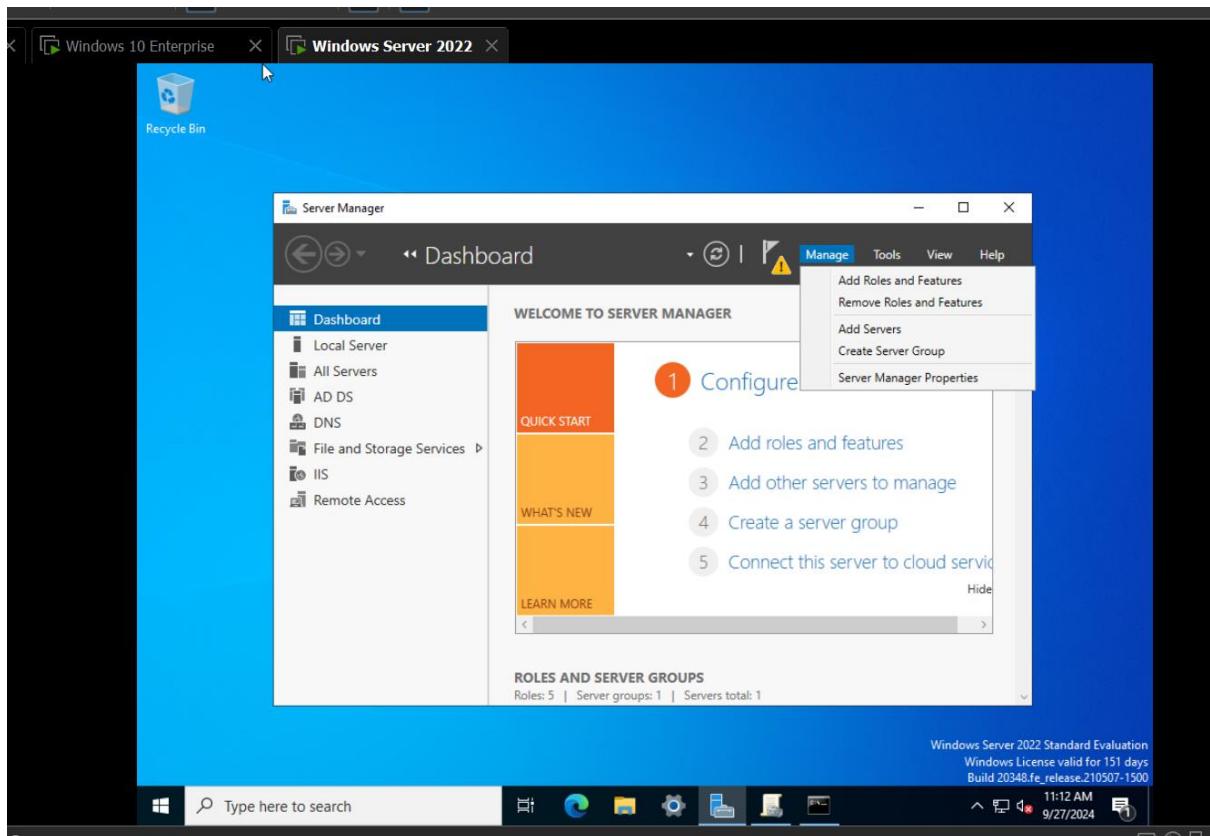
File Server Resource Manager (FSRM)

Suite of tools provided by Microsoft to help you manage and classify data stored on file servers.

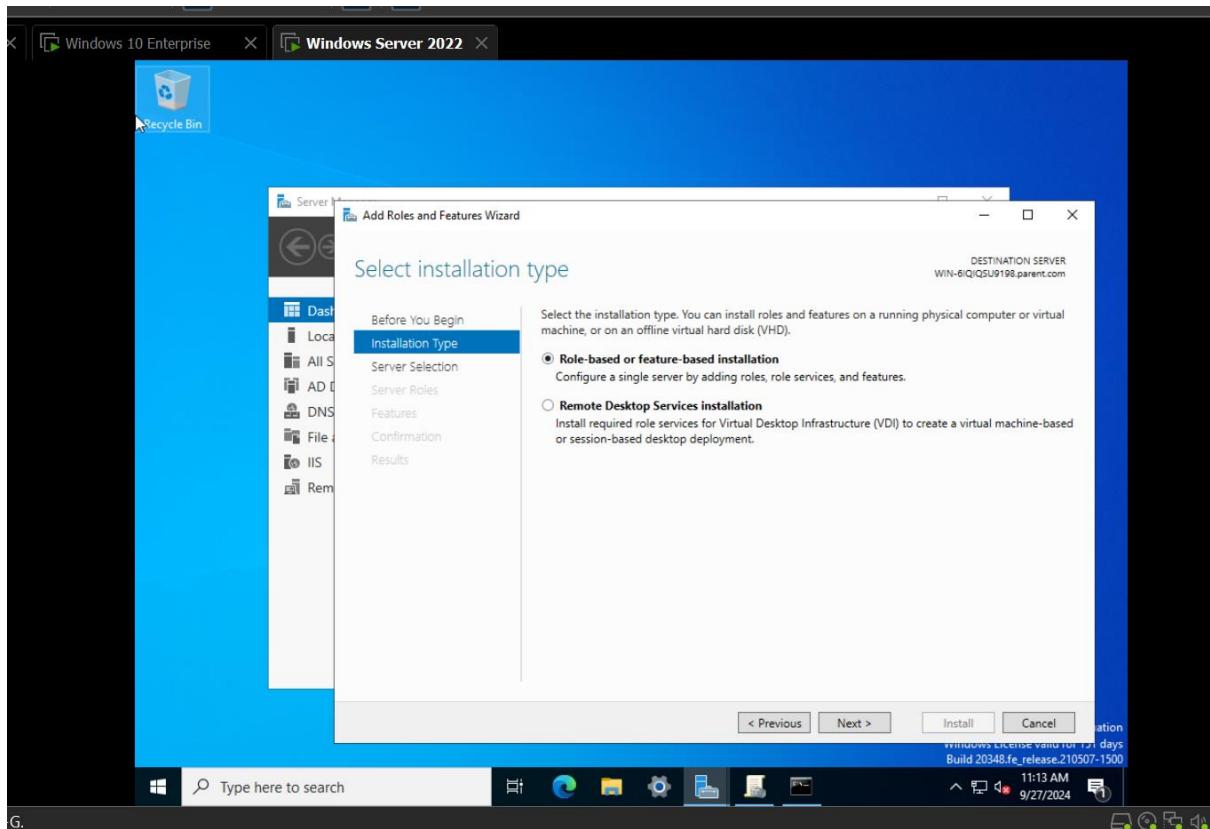
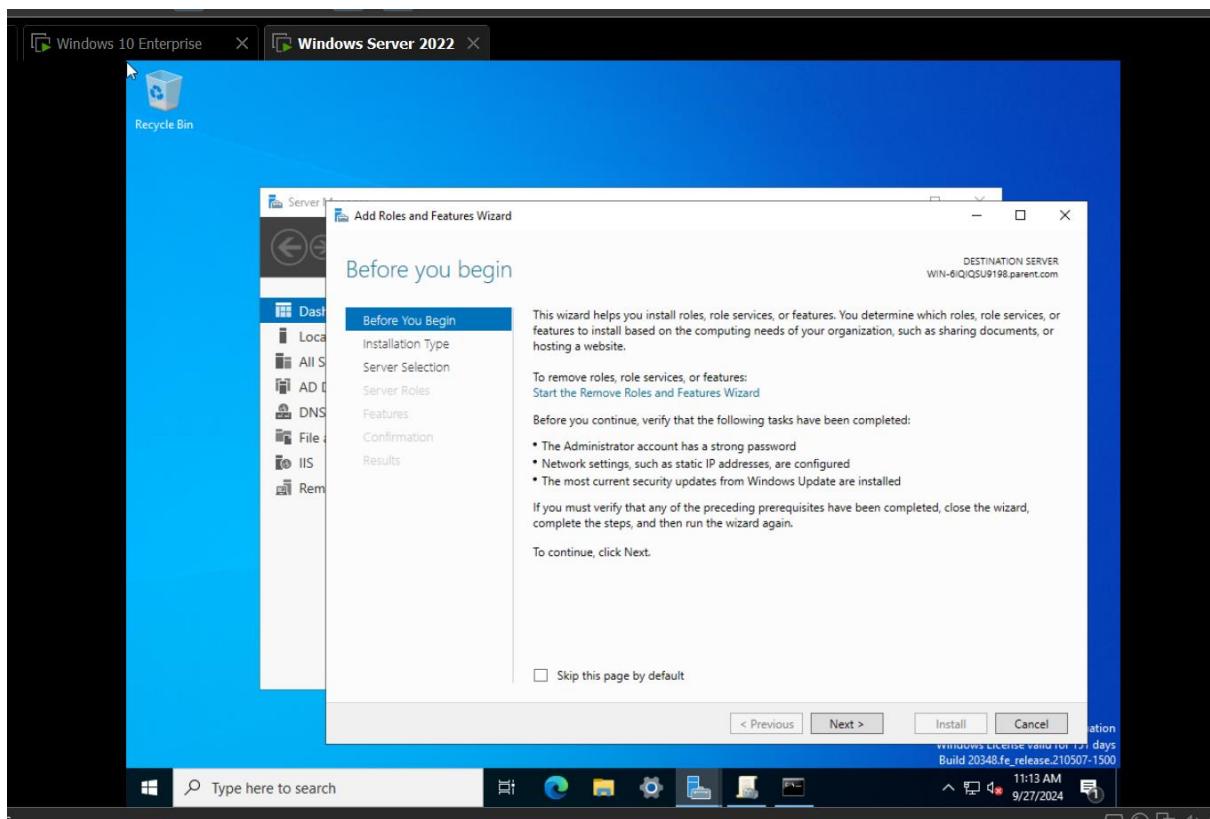
Installing FSRM



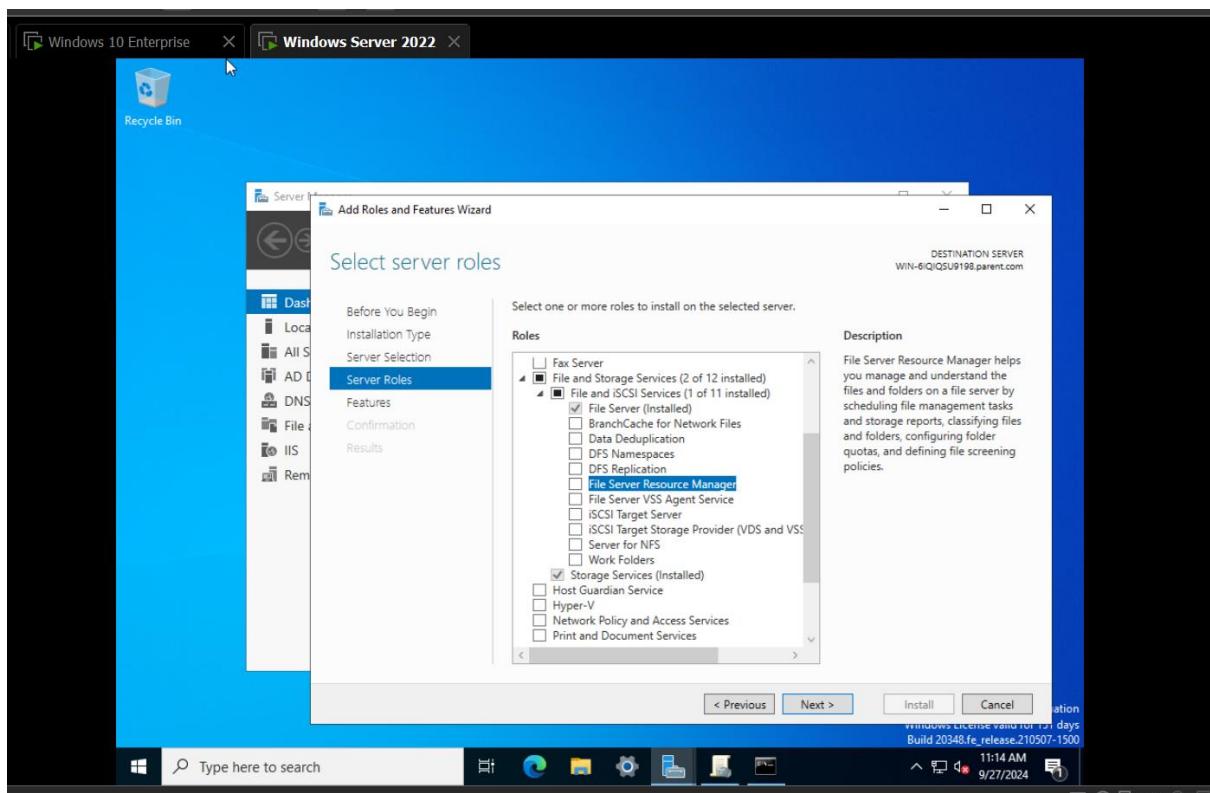
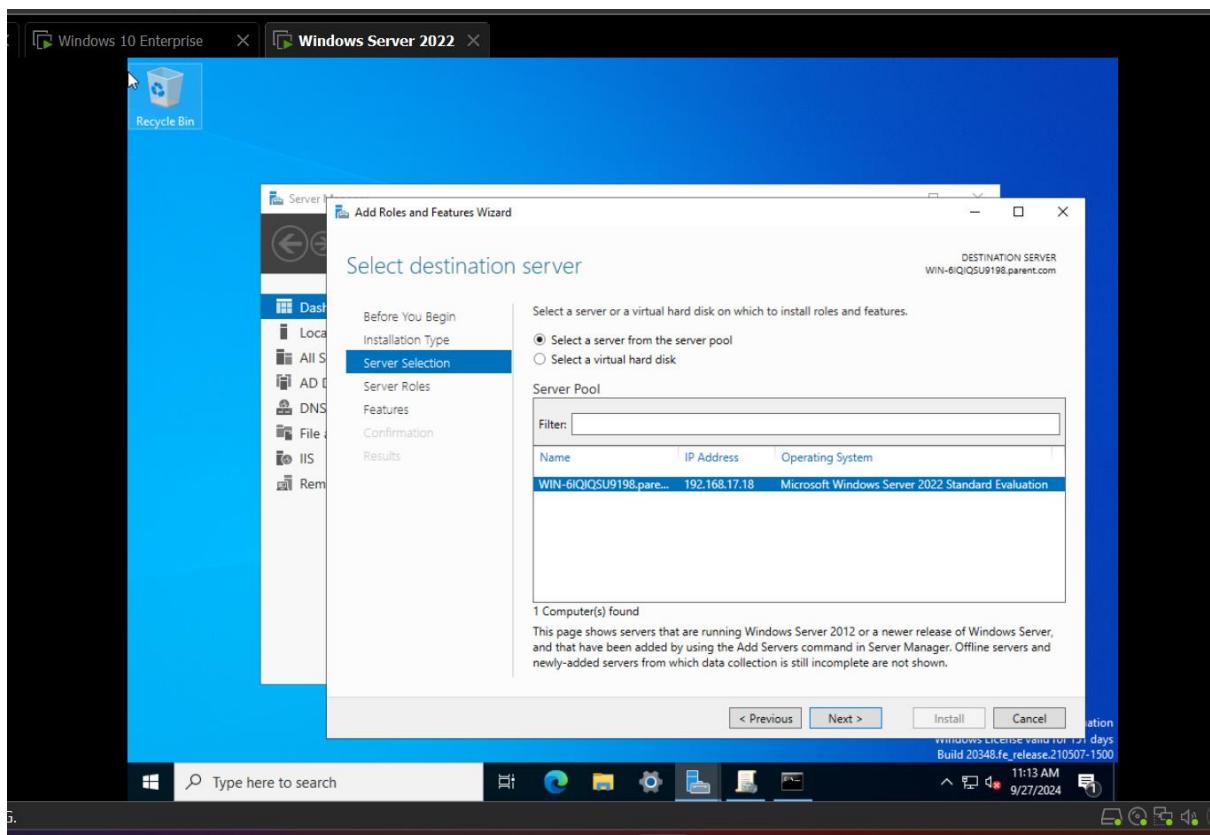
Go to manage and click on roles and features



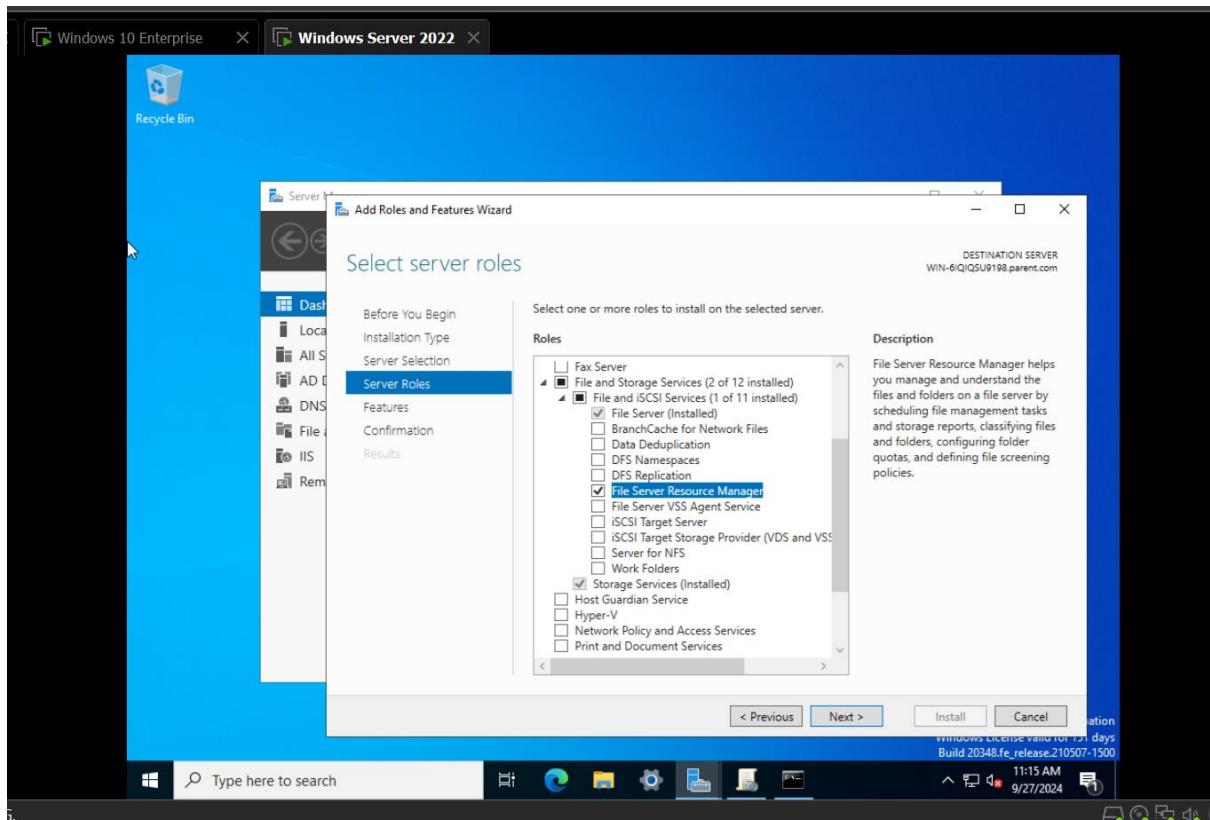
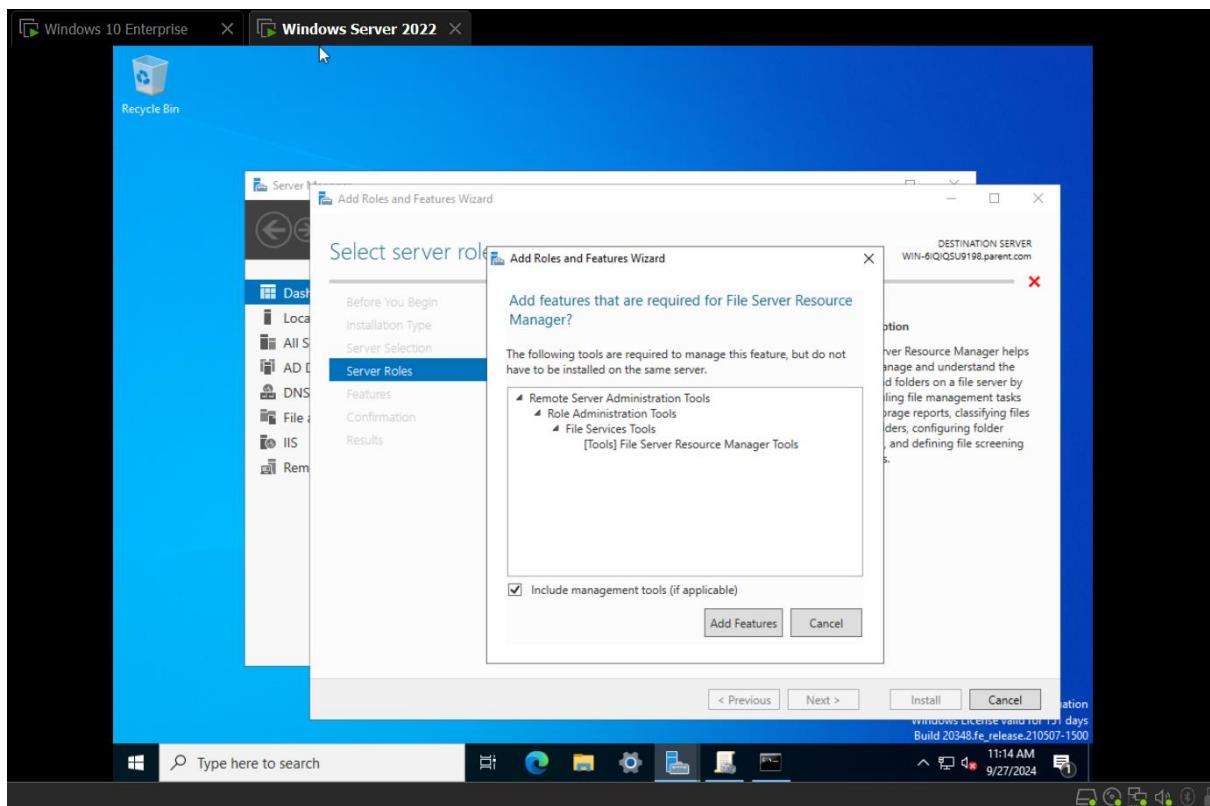
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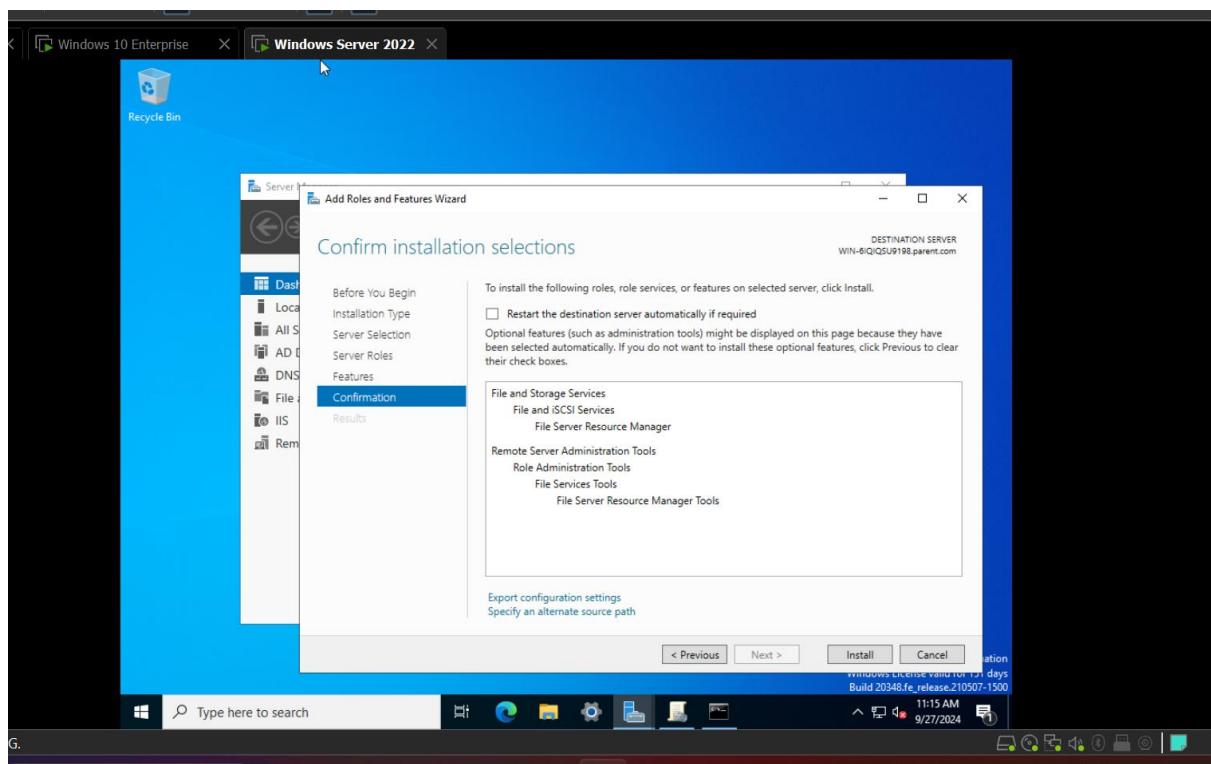
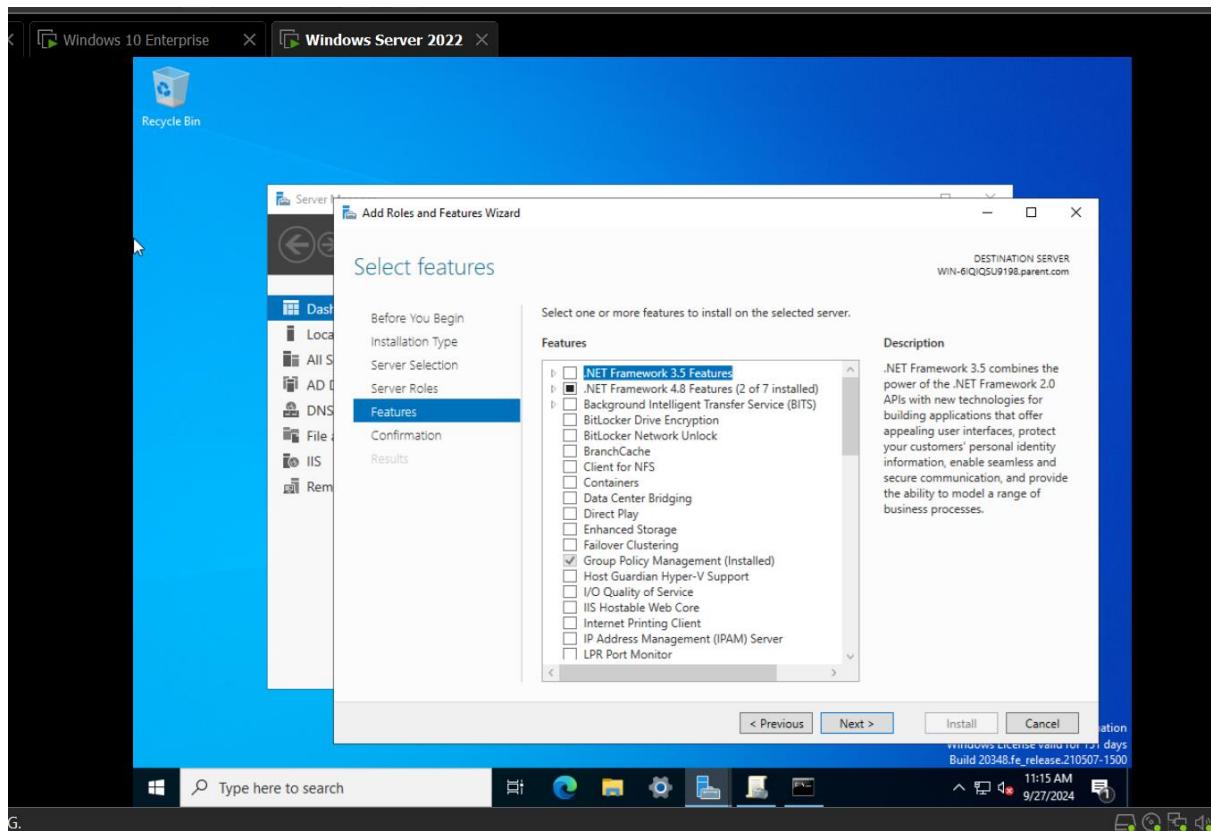
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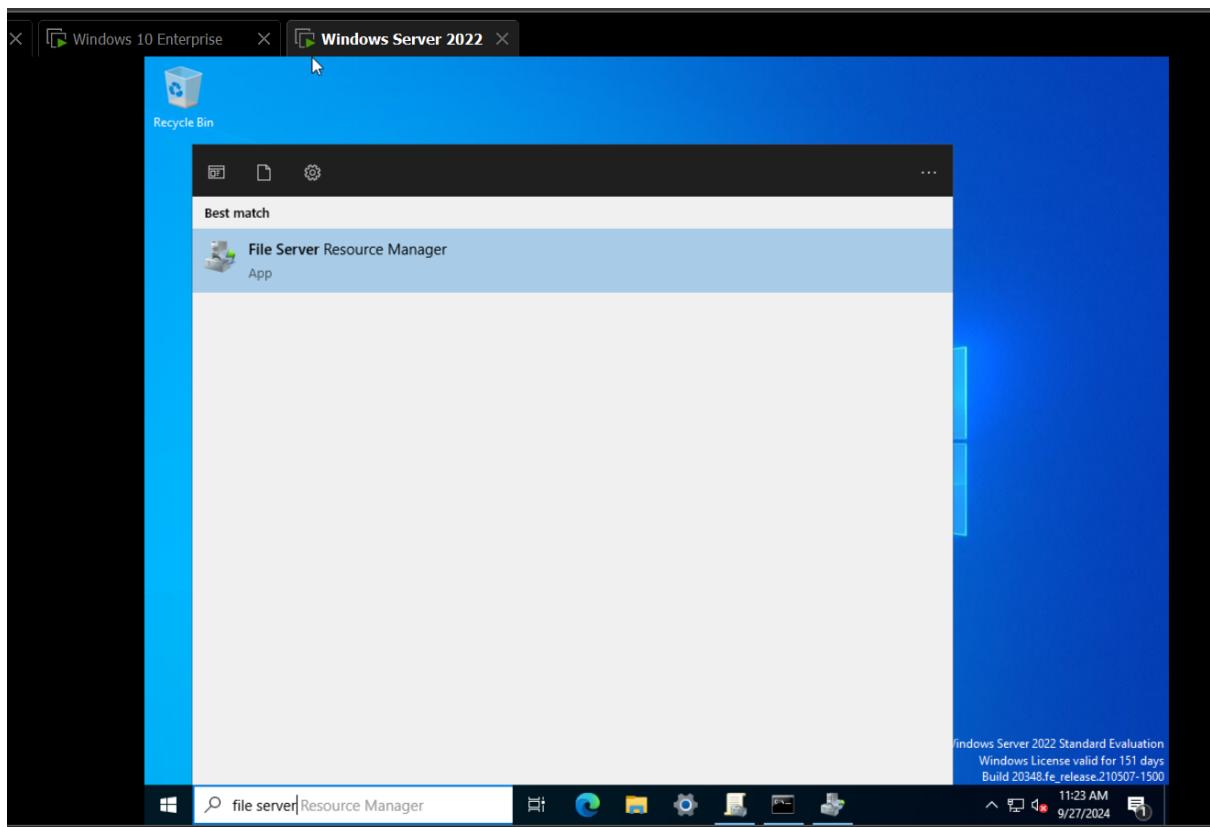
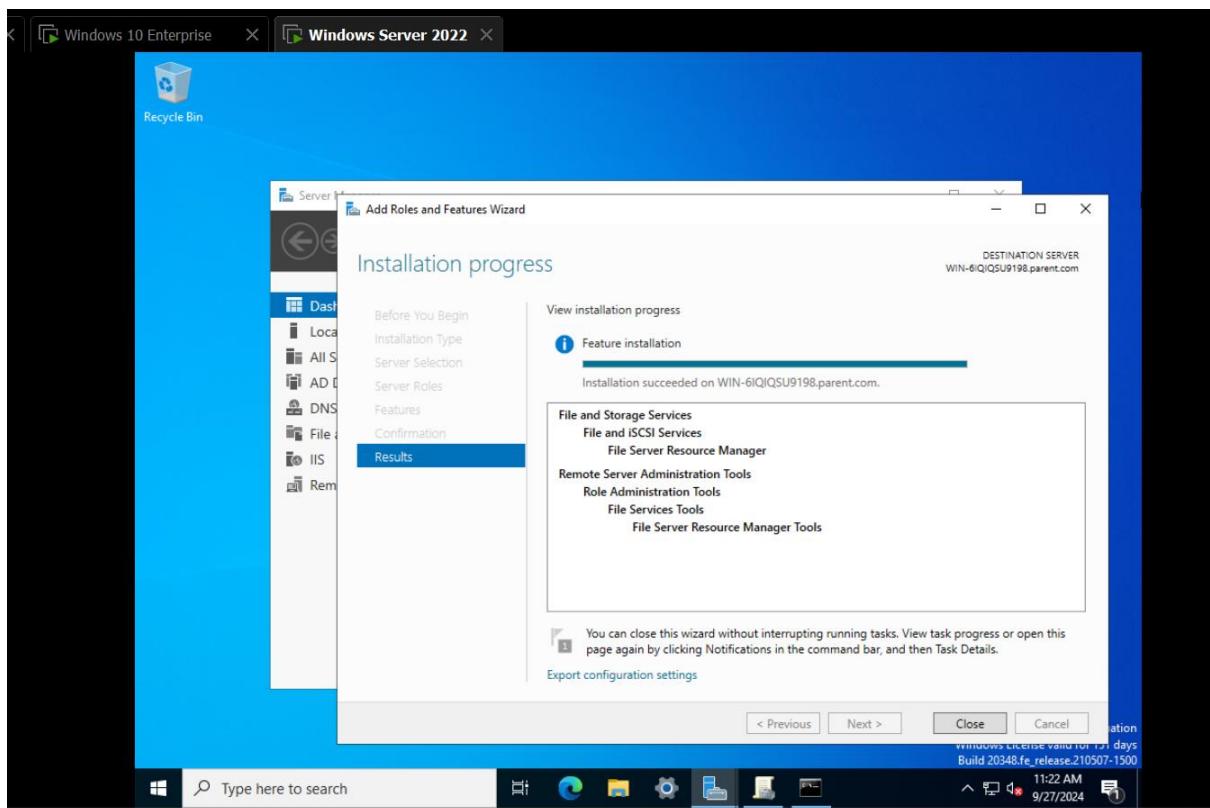


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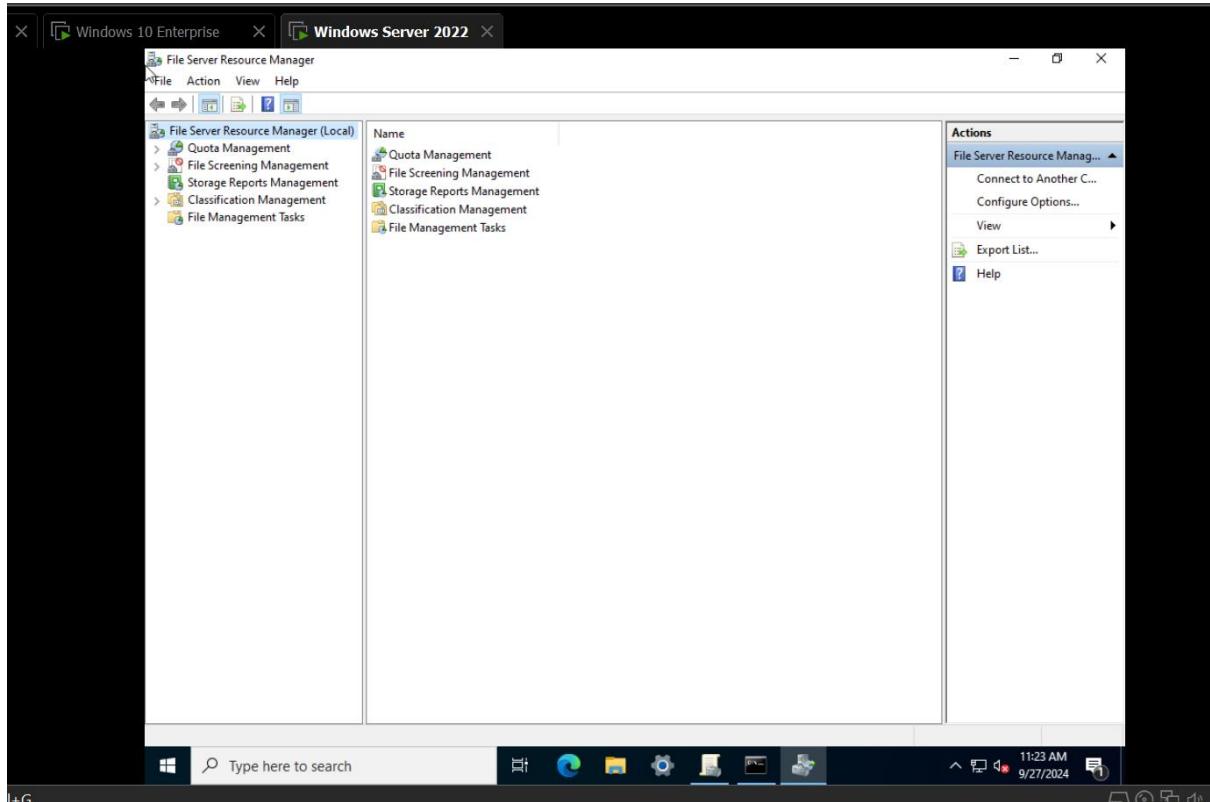
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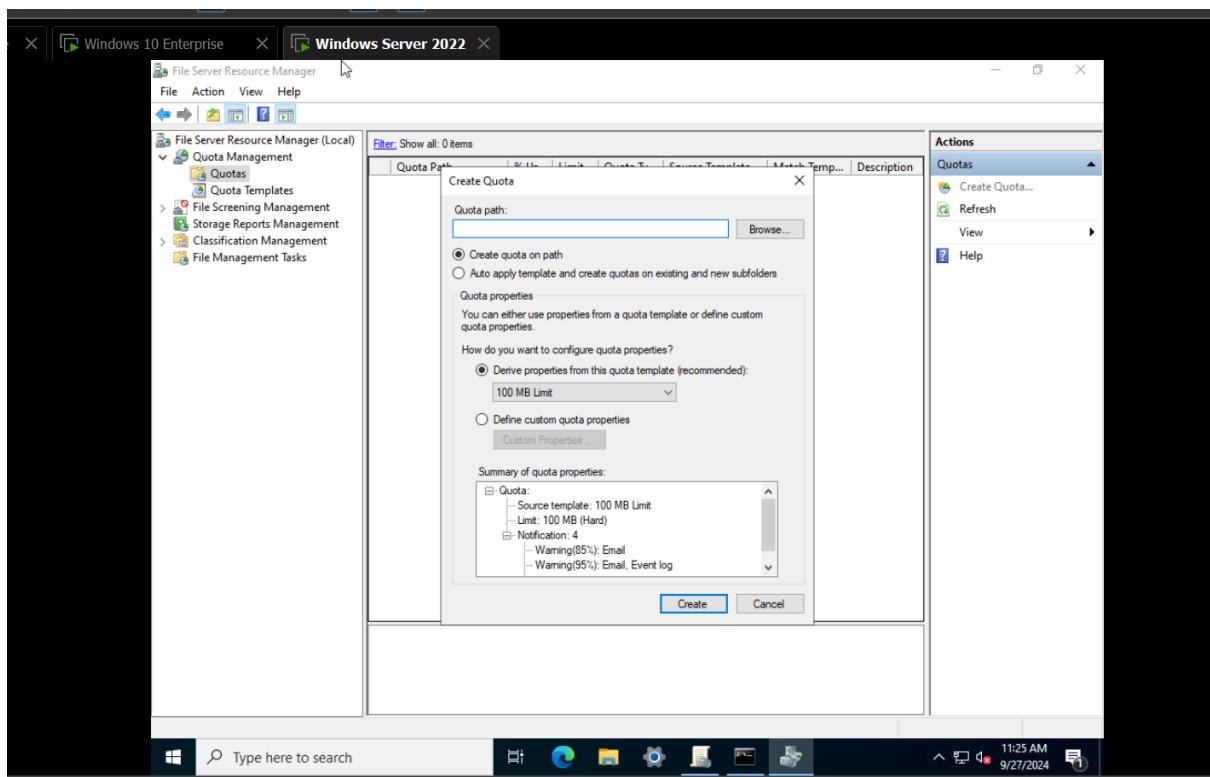


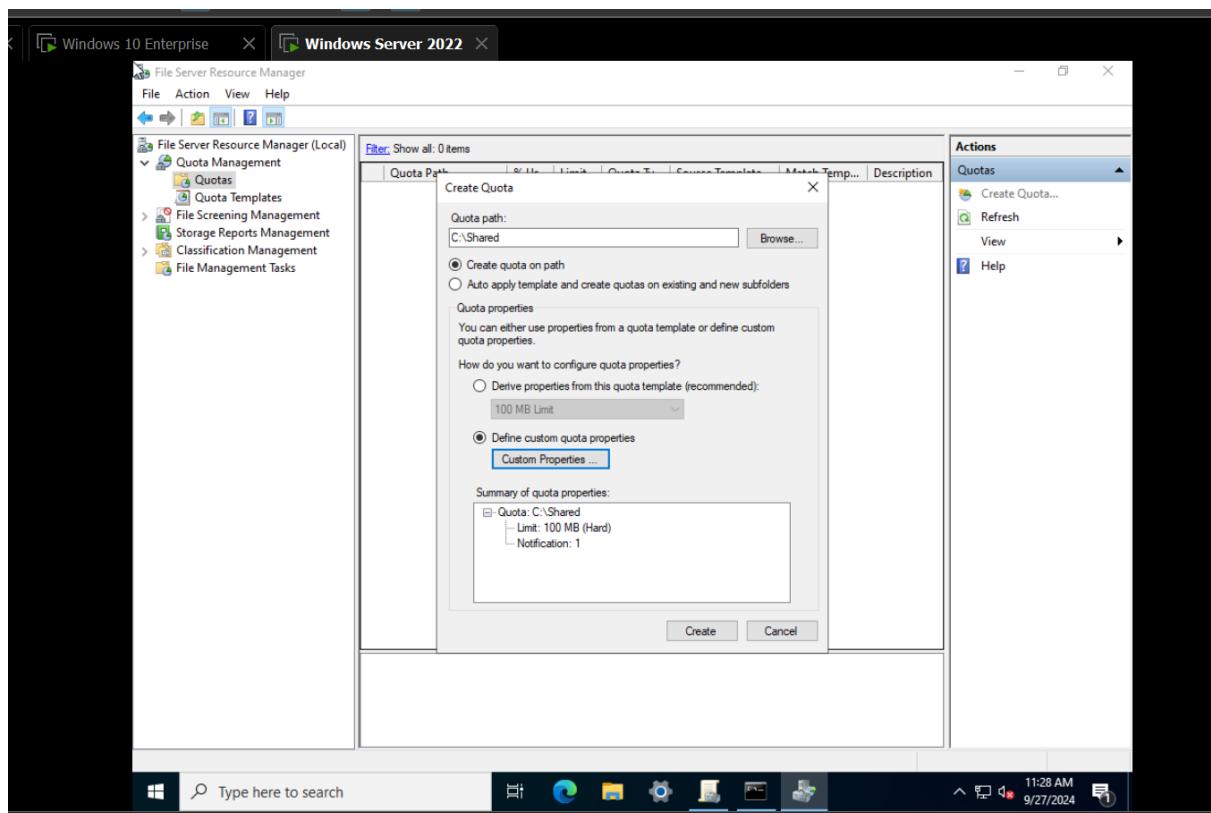
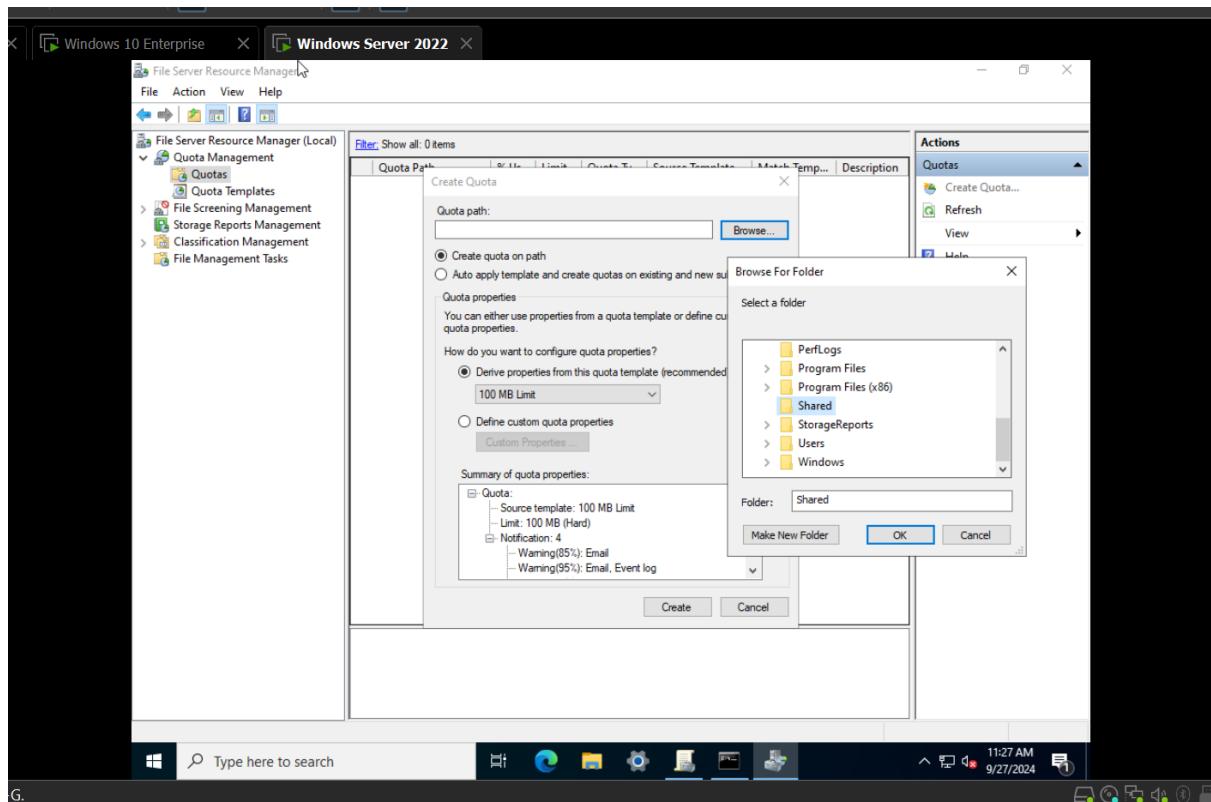
File Screening Setup.

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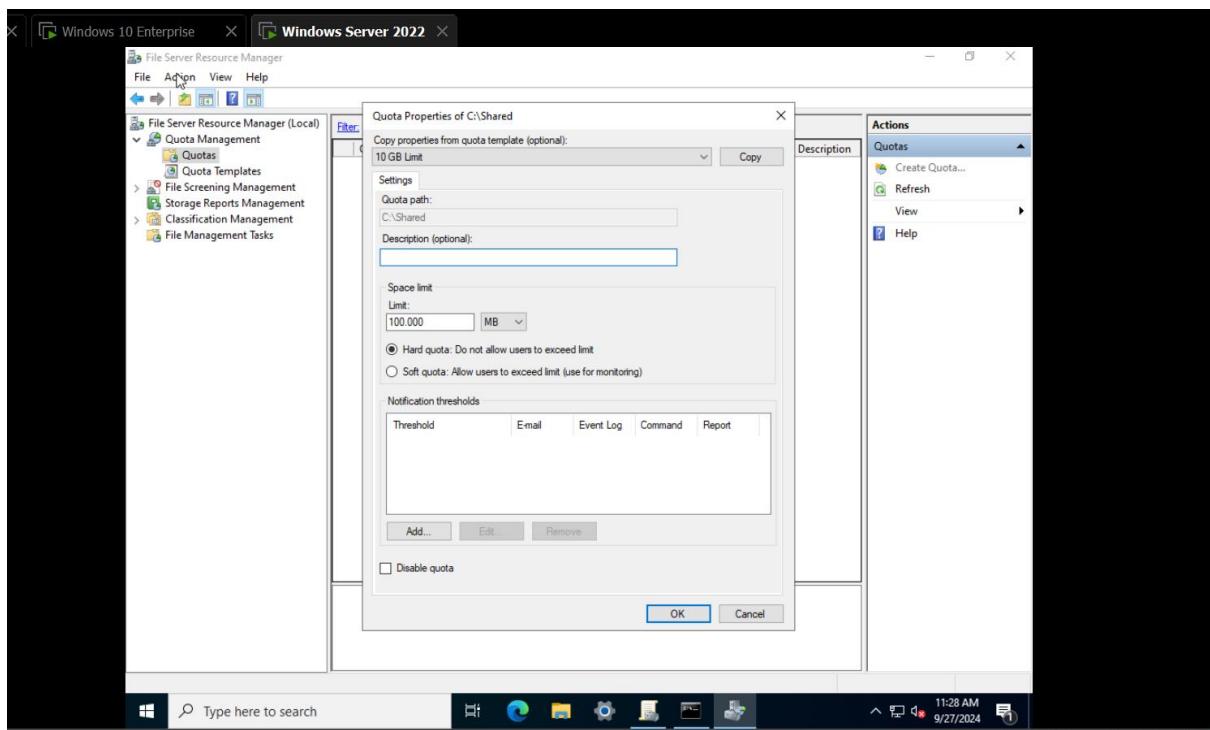


If you want to create a customized quota,

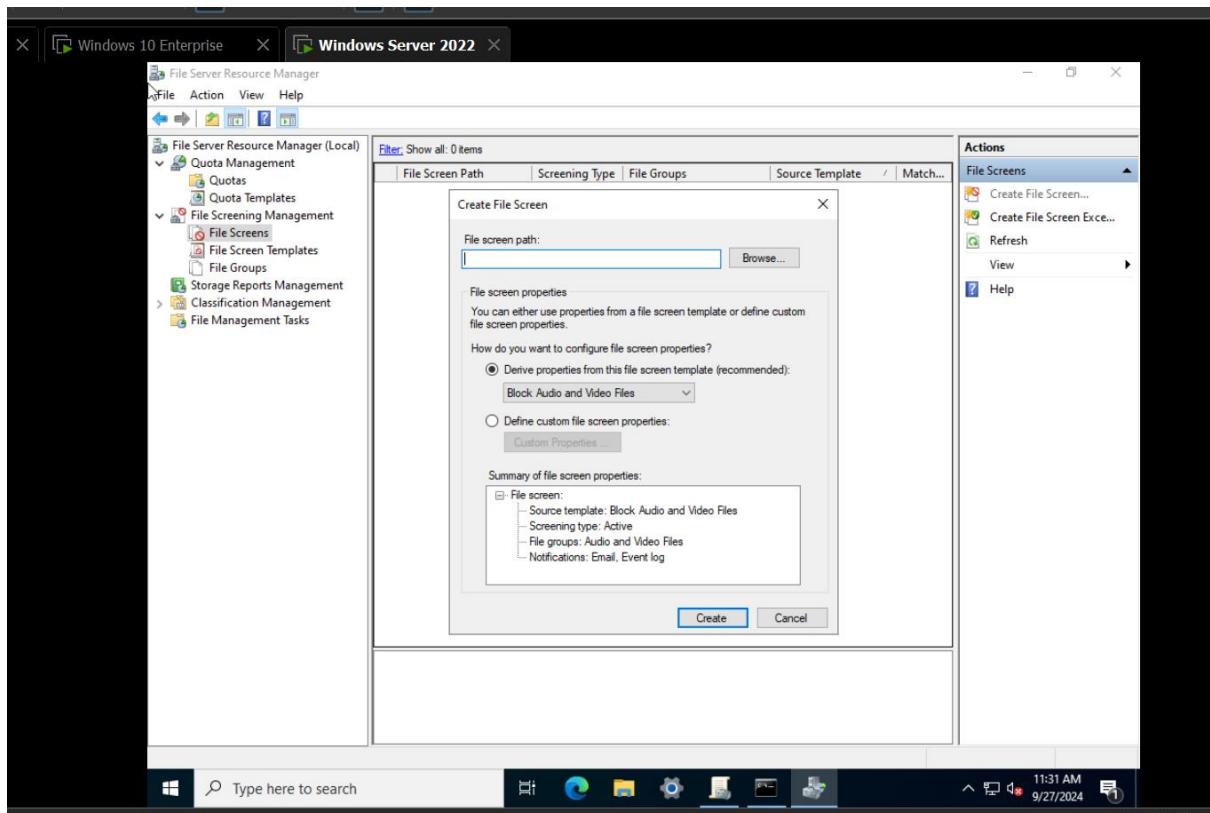


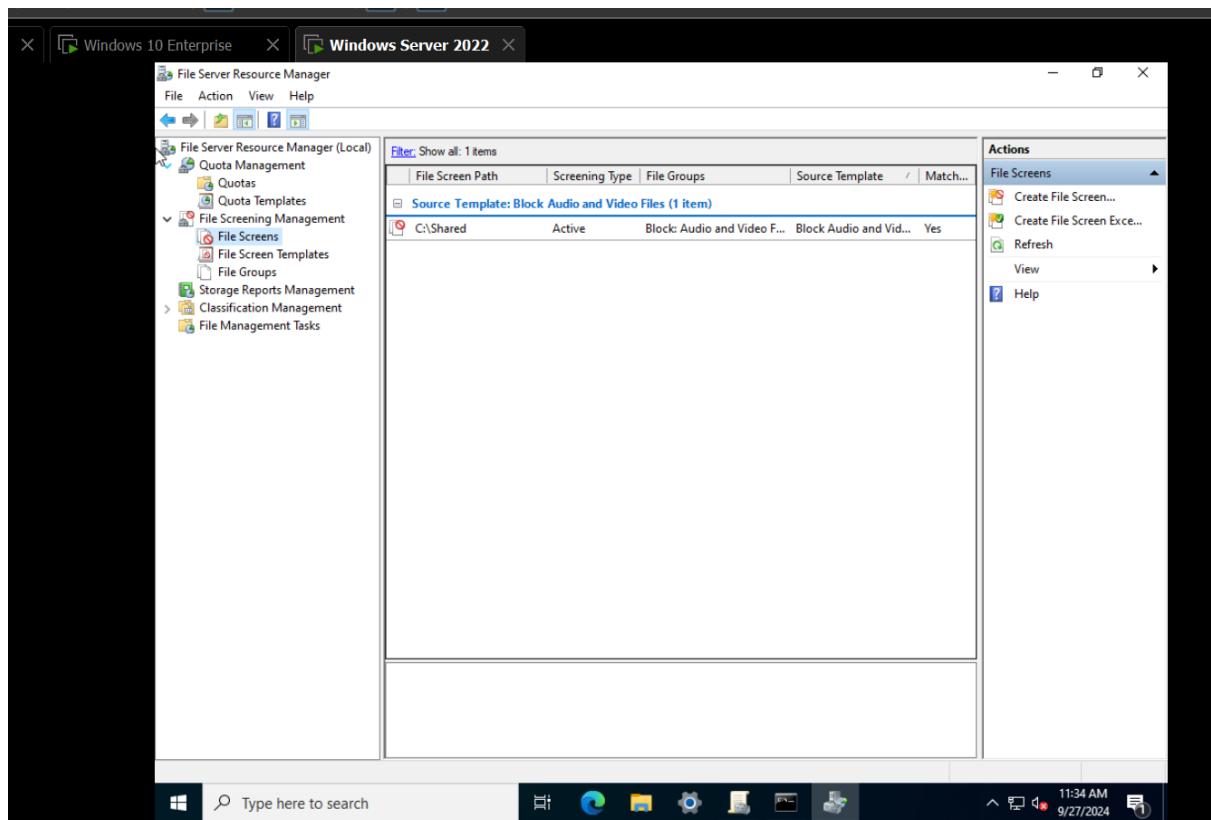
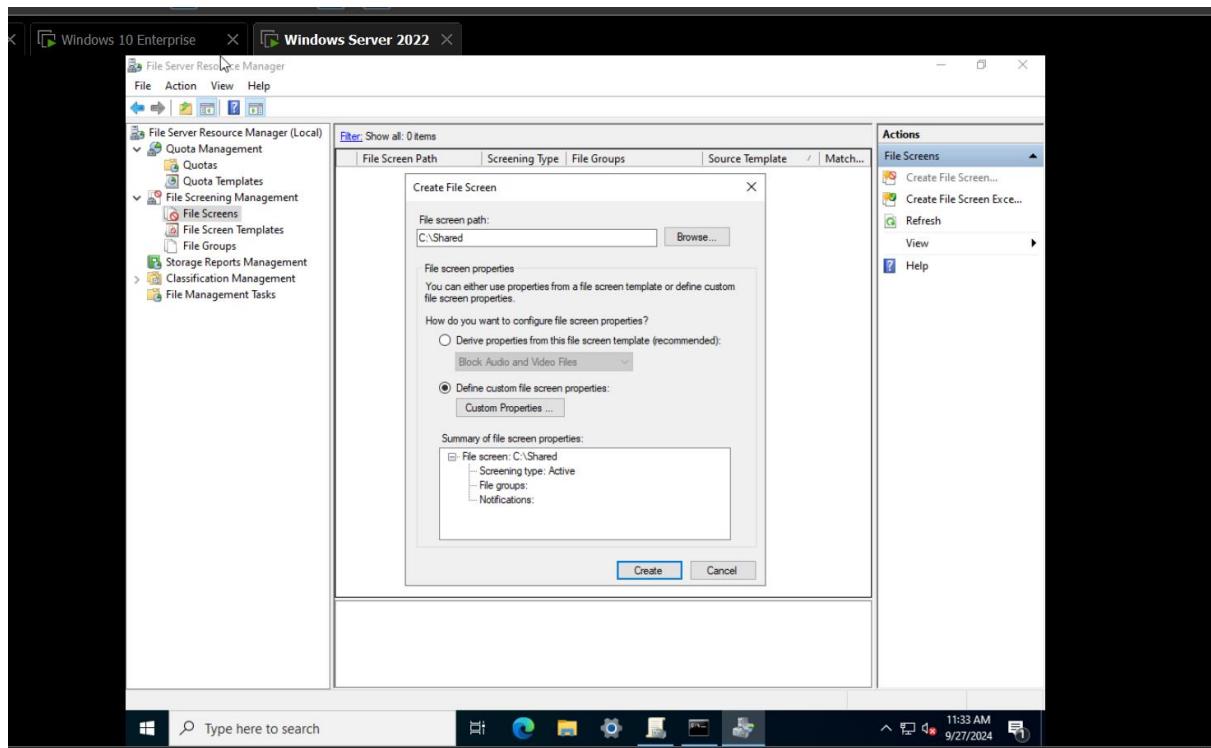


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The file screening Management it helps to make what kind of files to have whether we need image, pdf, or doc.





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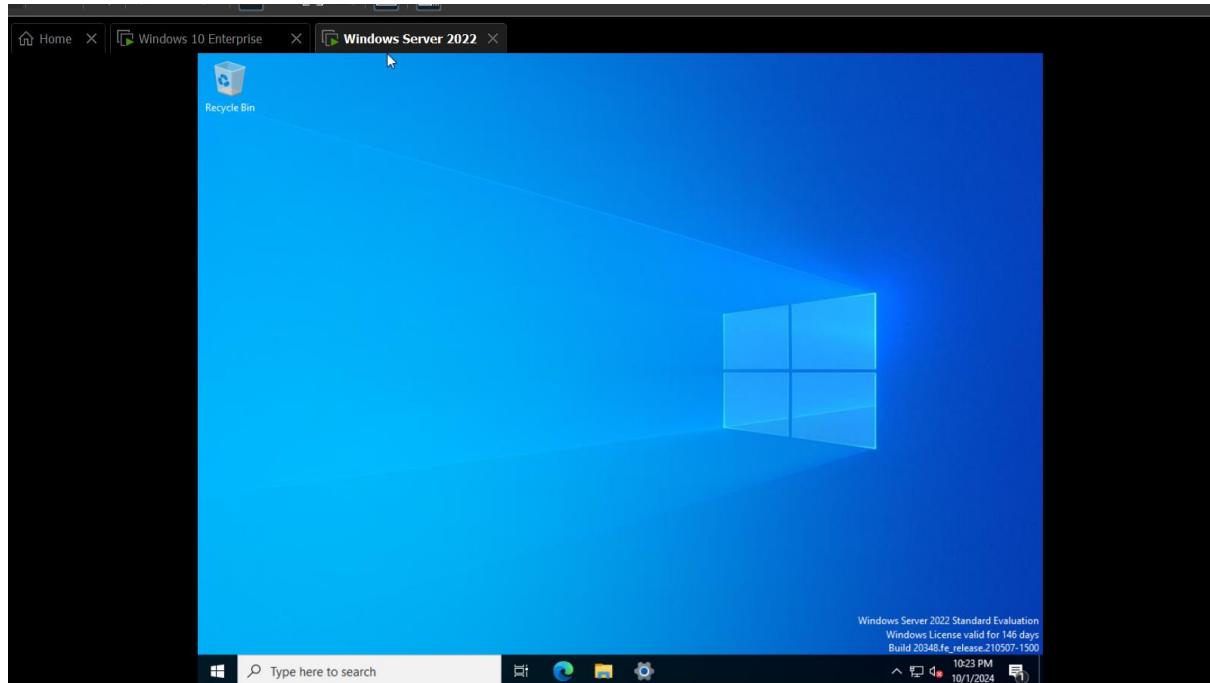
Security Policy

Understand and implement essential security measures.

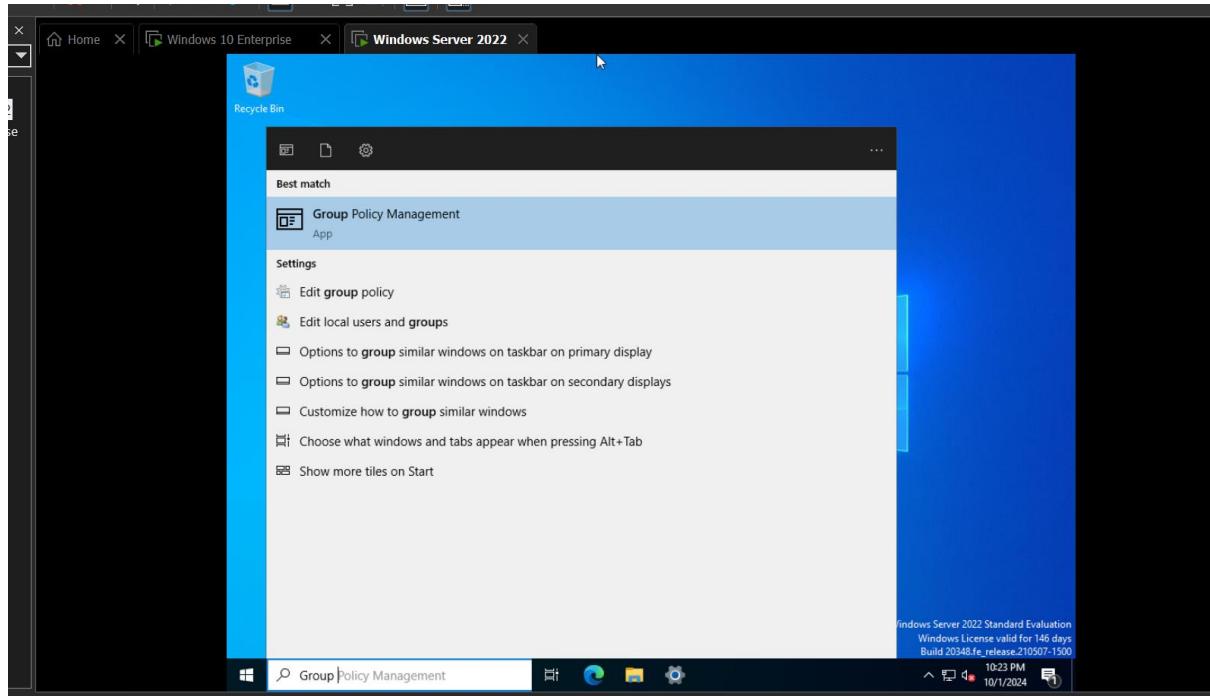
Activity : Password Policy Configuration

Configure and enforce a strong password policy for AD users.

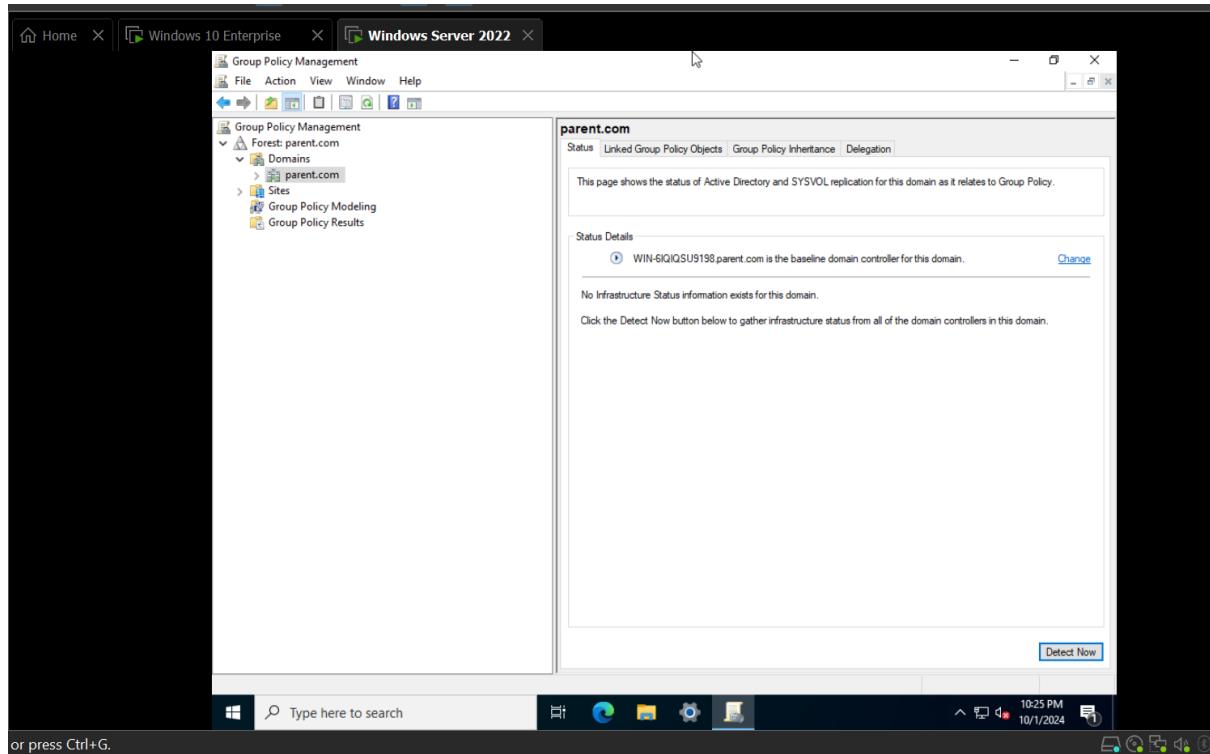
Open the Windows Server.



Search for Group Policy Management

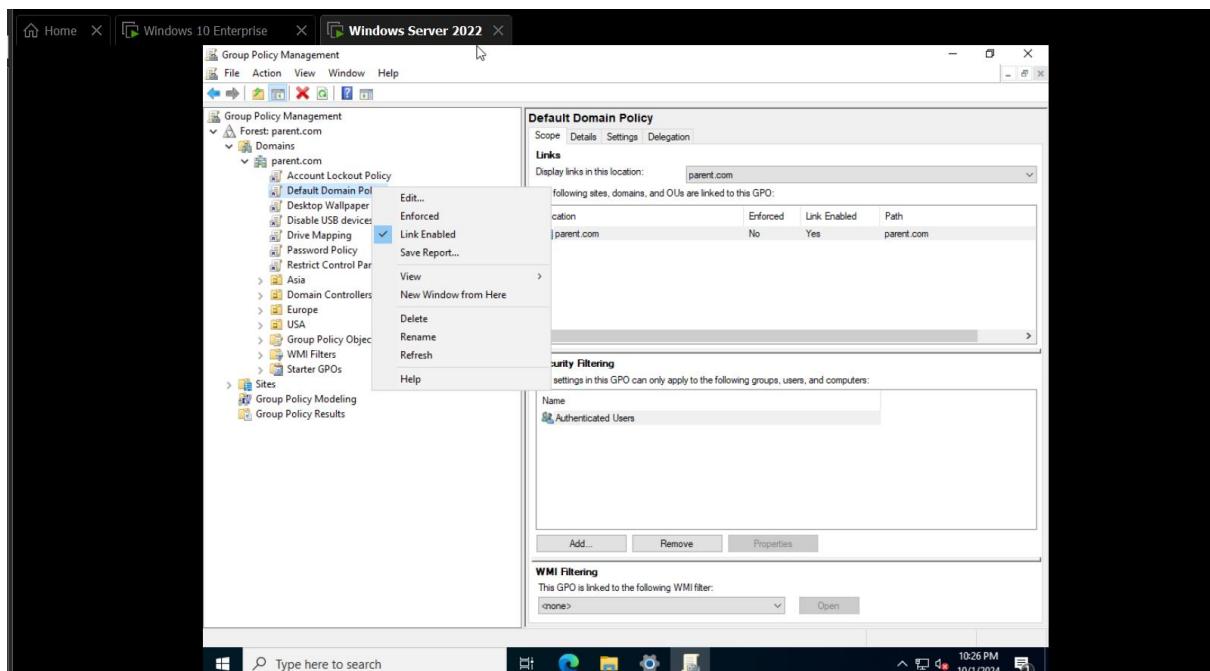


Once open GPO, expand the domain

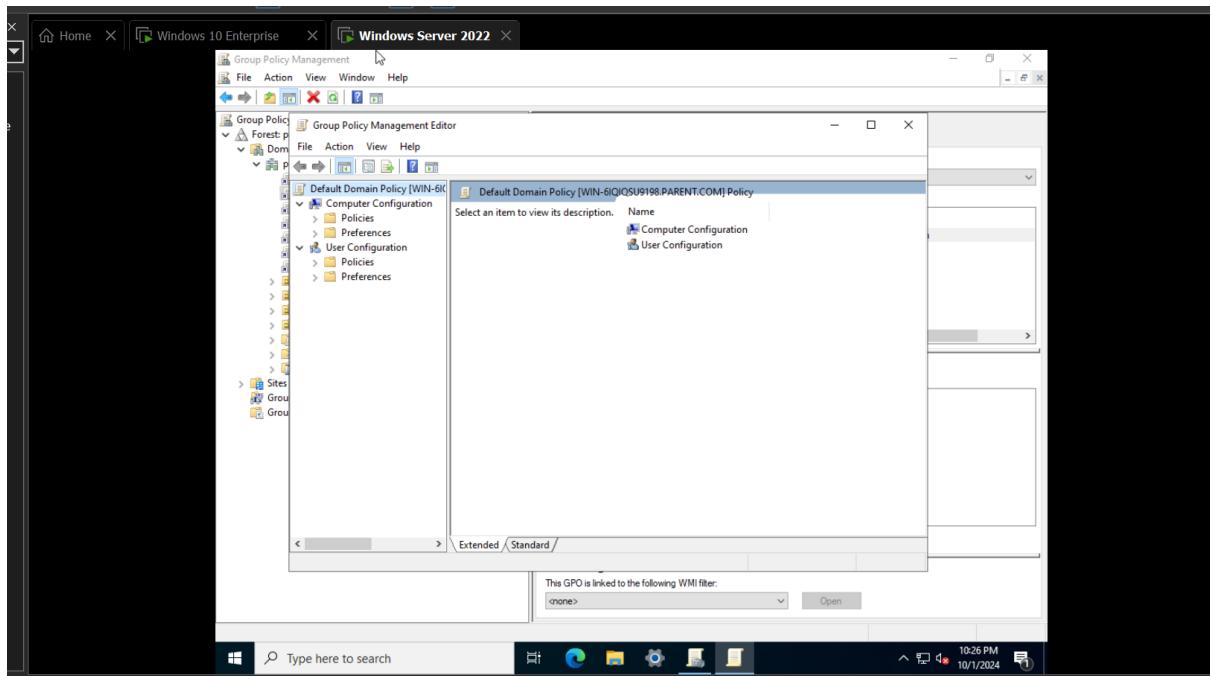


We can see default domain policy right click on it. Select edit option.

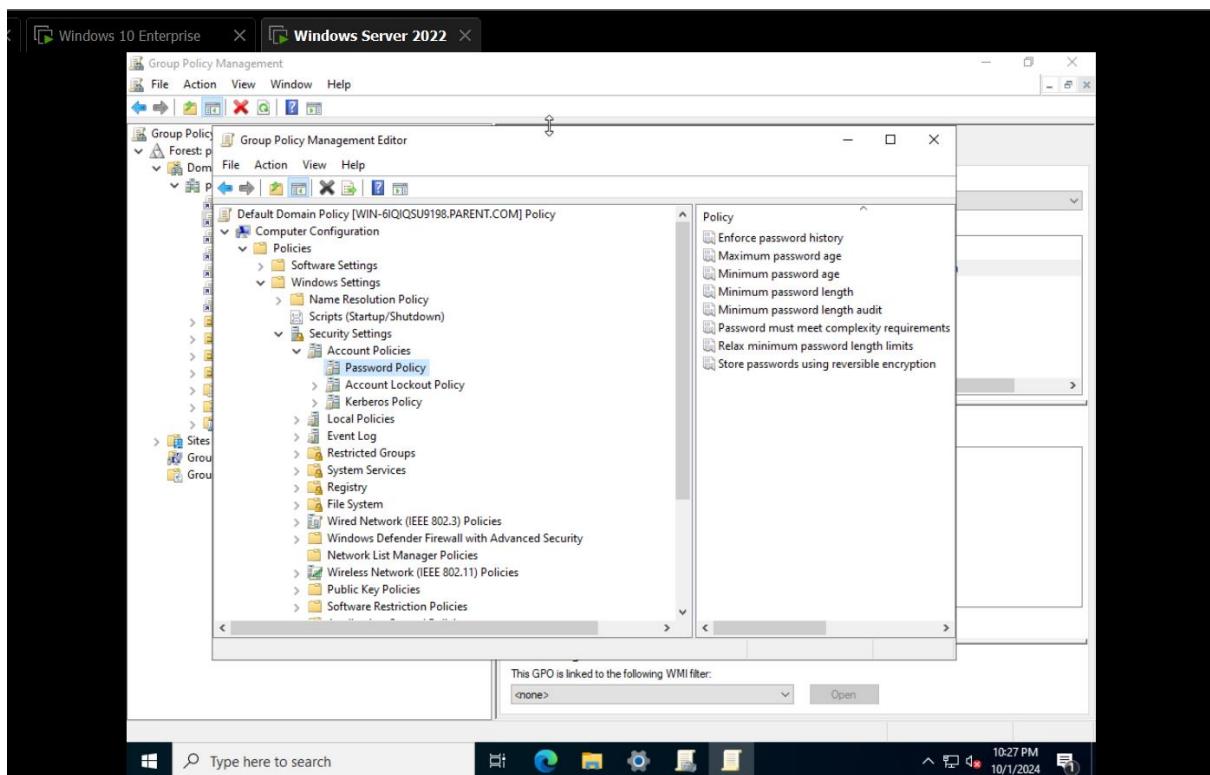
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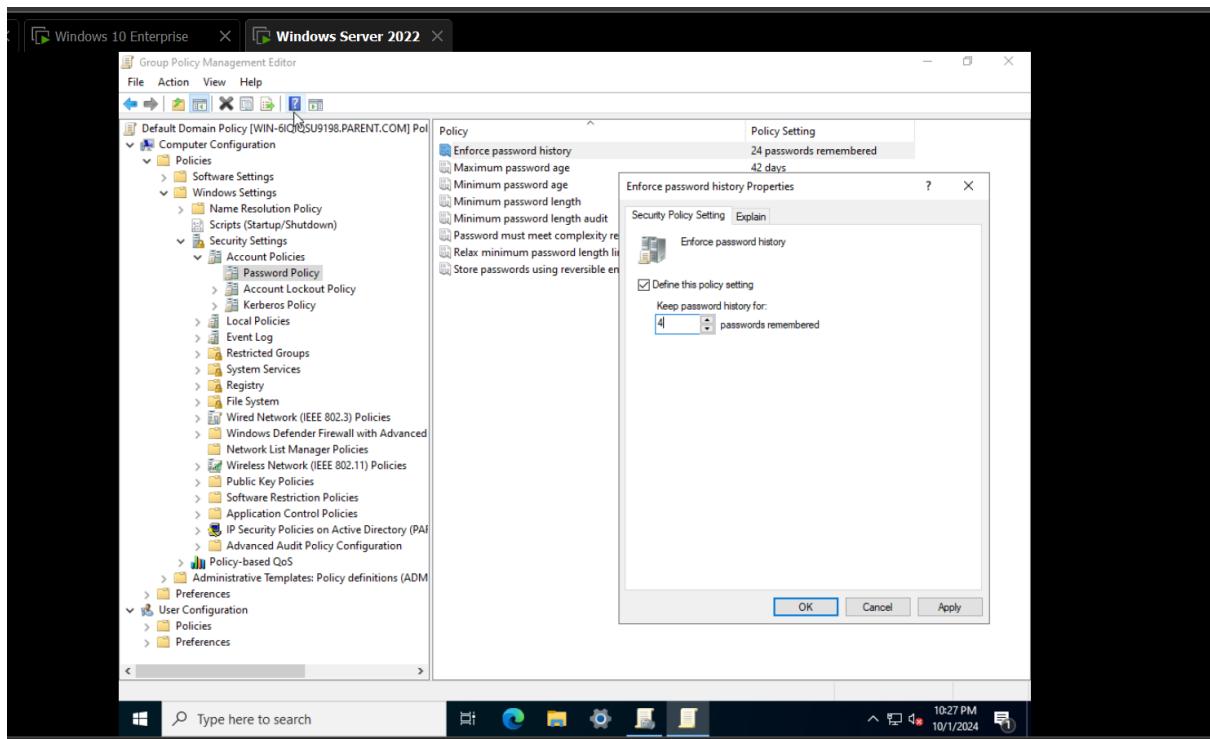
Then Group Policy Editor will open, to set up Password policy set up we need to select computer configuration.

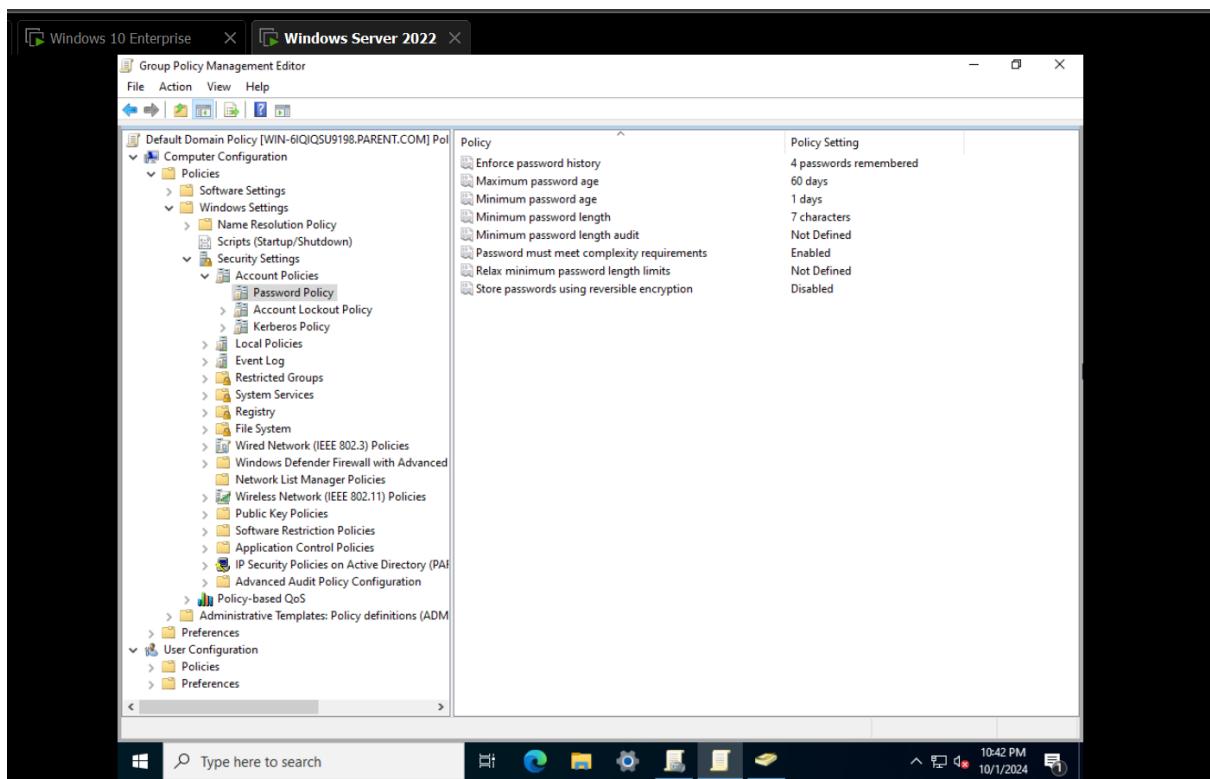


In computer configuration -> Policies -> Windows Settings -> Security settings -> Account Policies -> Password Policy.



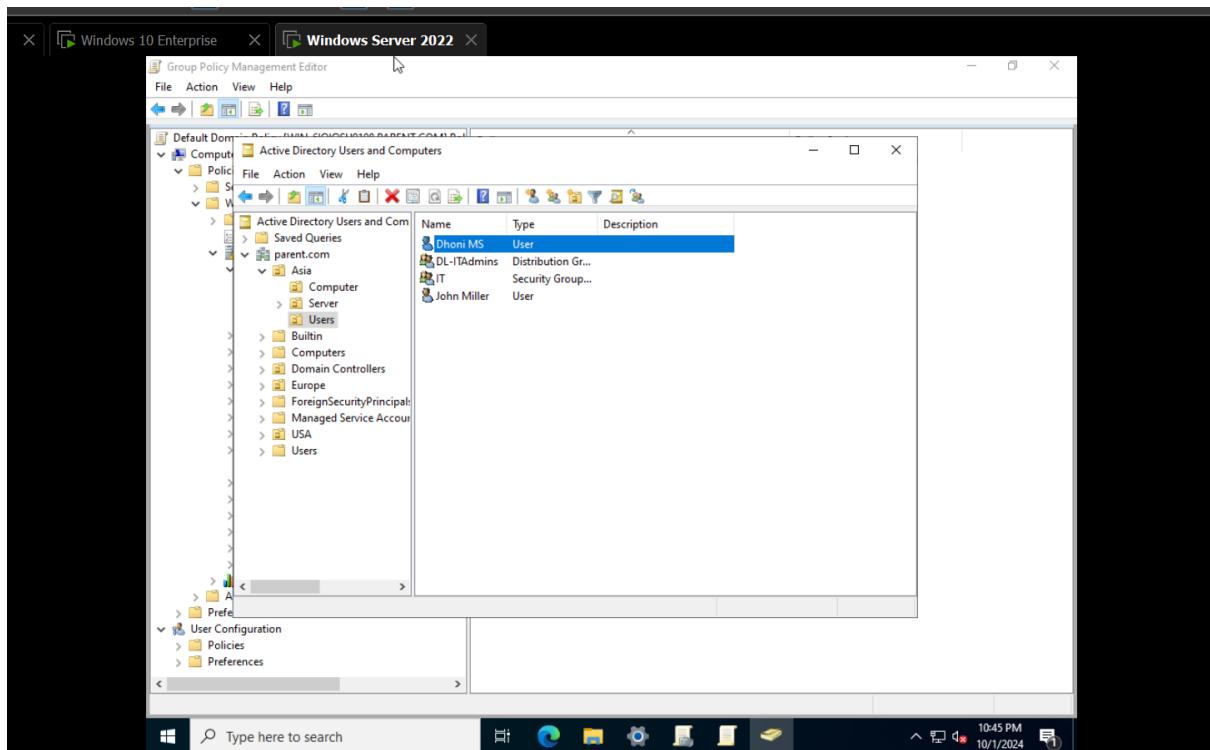
Now if want to set policy setting, right click on policy click edit. Set as what you required



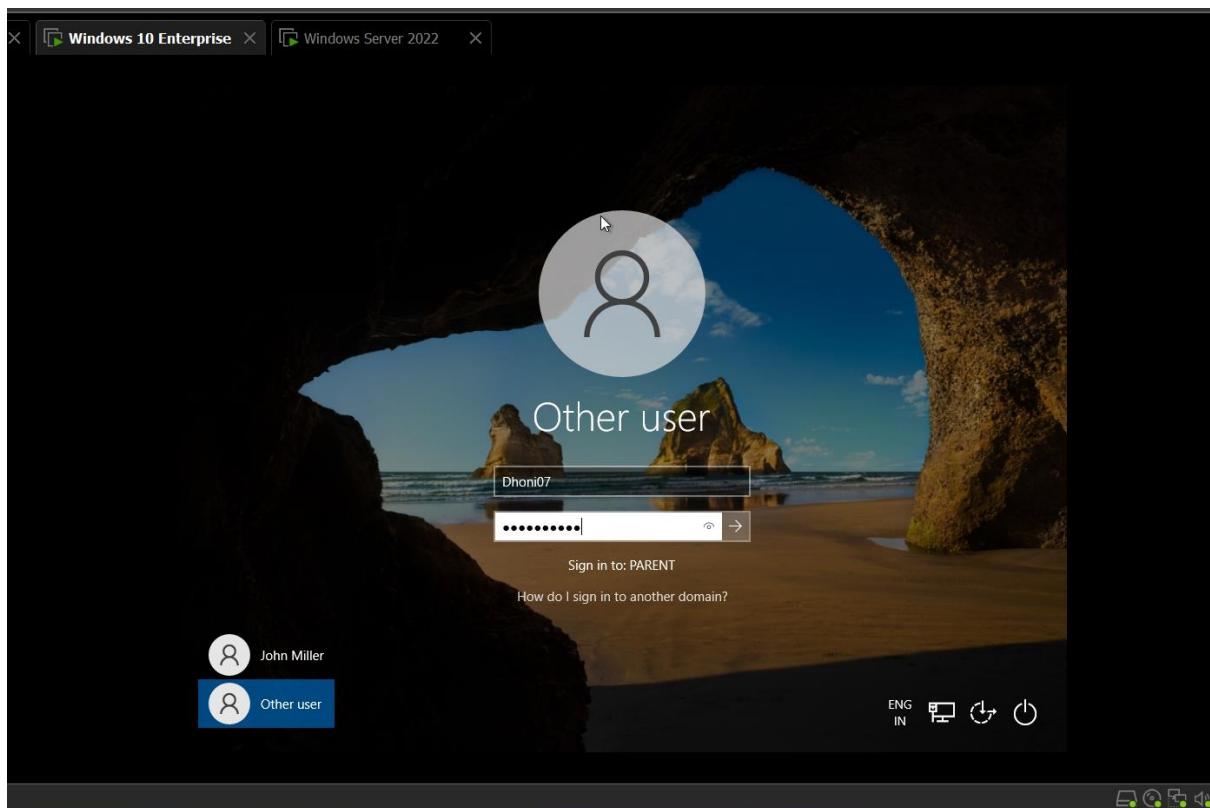
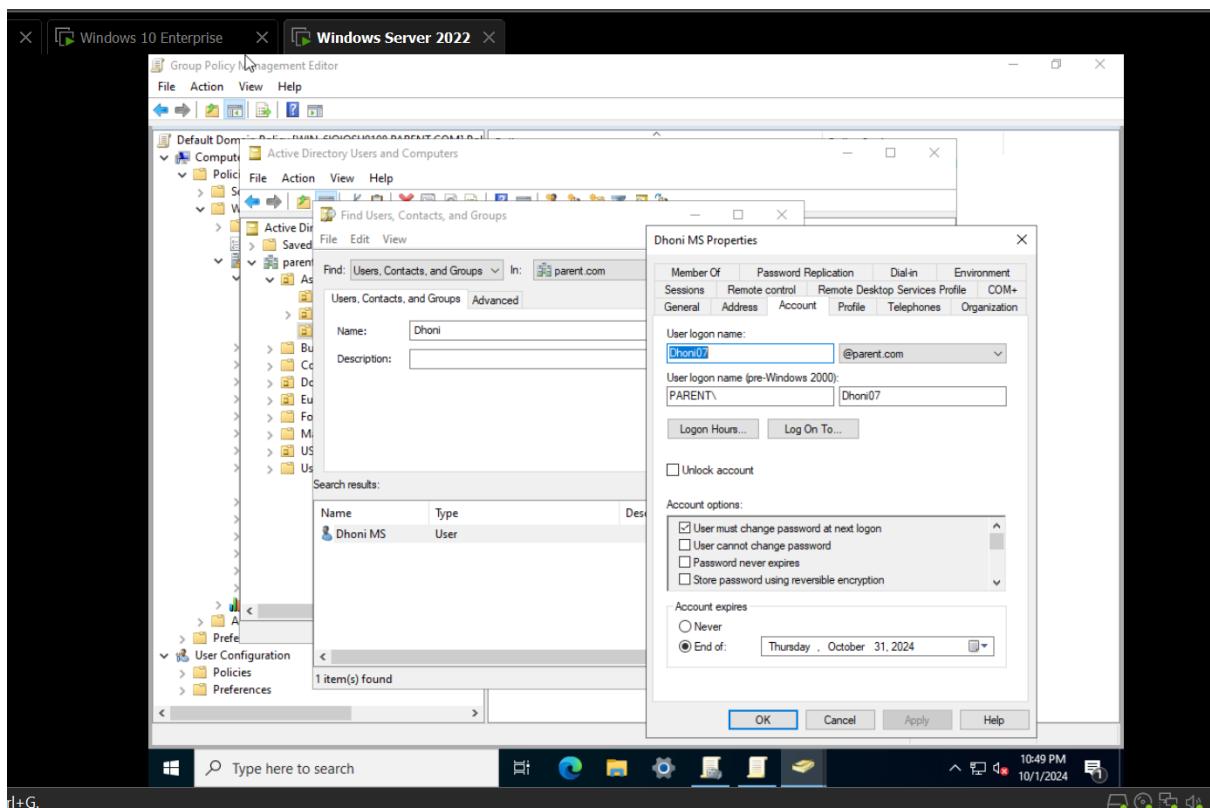


Testing:

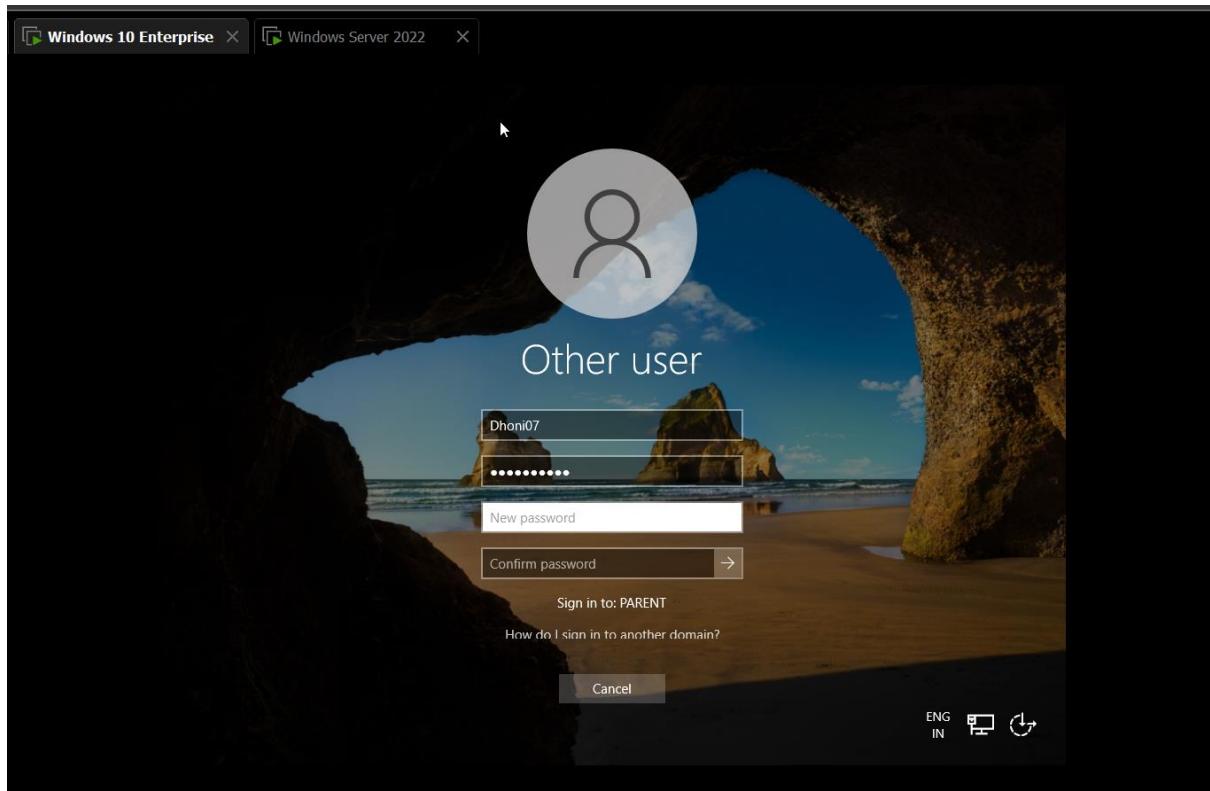
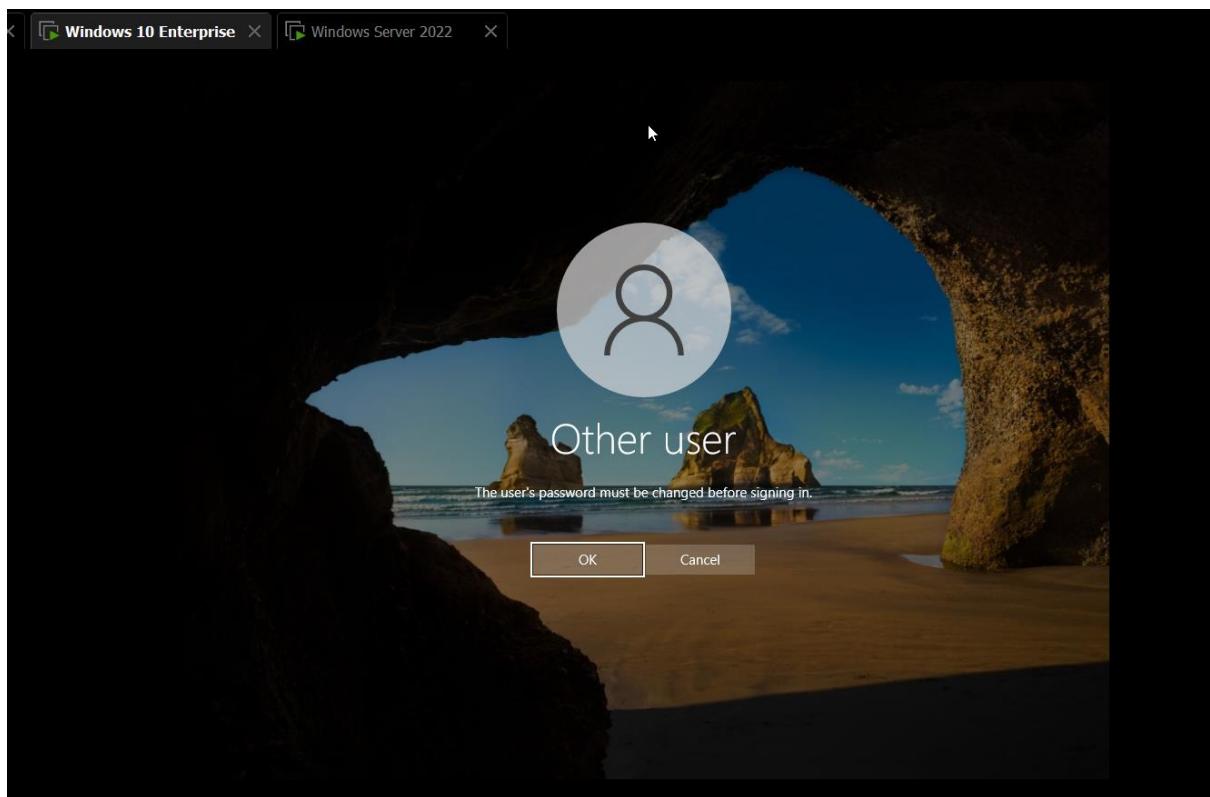
Open



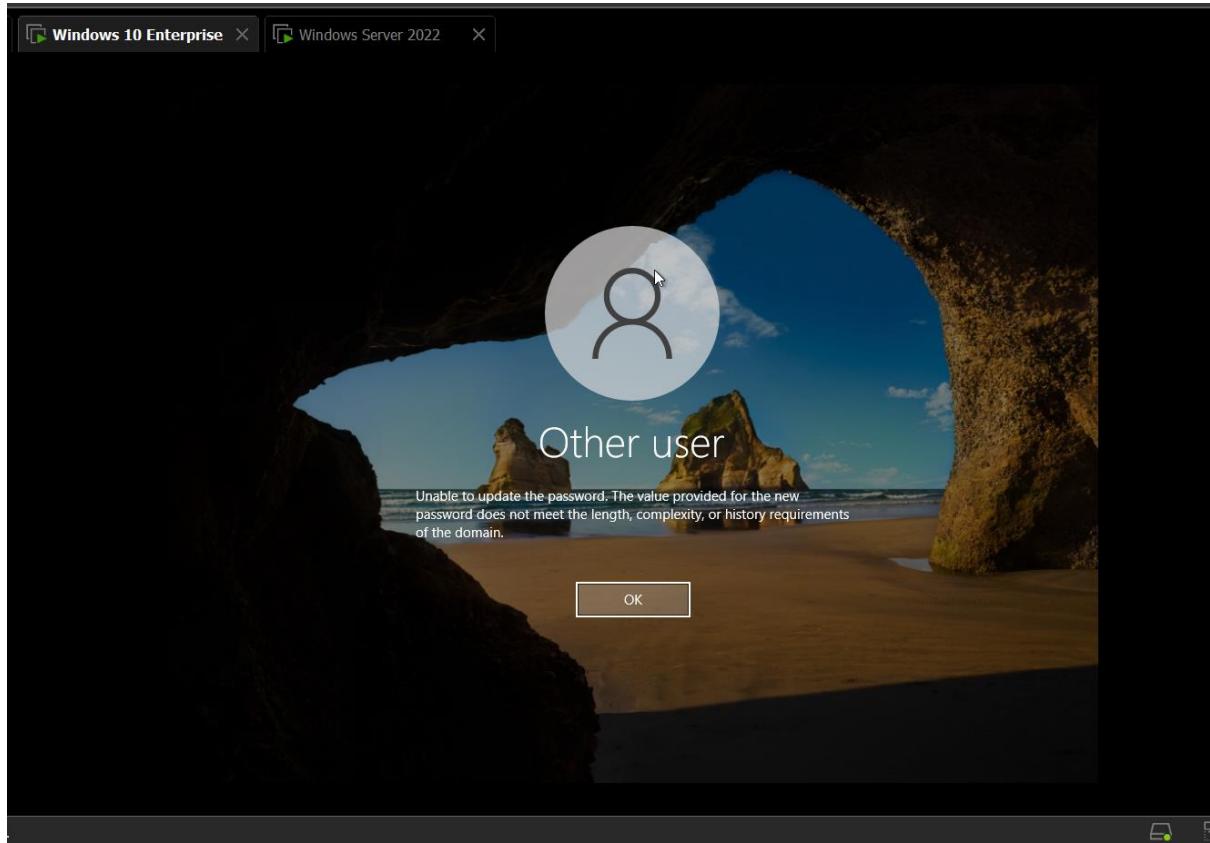
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