



Microsoft  
**Active Directory**

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

Dinesh Gorapalli

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## Basic Active Directory Setup Activity:

Objective: Set up an AD domain from scratch.

Steps:

1. Install windows server in a virtual machine.
2. Promote the server to a Domain Controller(DC).
3. Create an AD domain.
4. Create organizational units(OUs) for different departments.
5. Create user accounts and groups within these OUs.

## Installing VMware Workstation

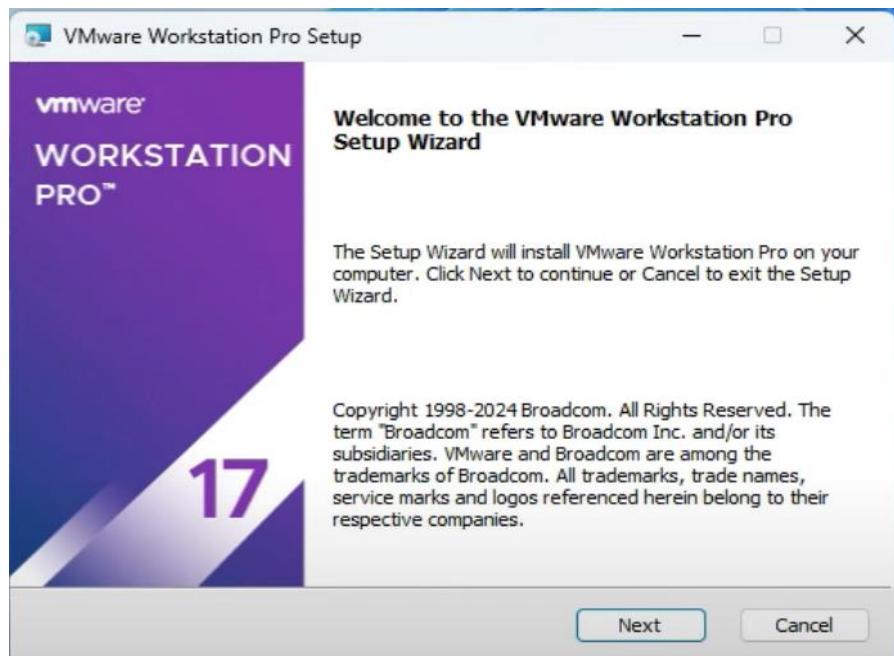
1. Search for VMware workstation in any search engine or else simple click this link [Download and license VMware Desktop Hypervisor for personal use \(Fusion Pro and Workstation Pro\) \(broadcom.com\)](https://knowledge.broadcom.com/external/article?articleNumber=368667)
2. Now need to register in to Broadcom website. After that login into Broadcom with credentials, now need to select VMware Workstation Pro.

The screenshot shows a web browser window with the URL <https://knowledge.broadcom.com/external/article?articleNumber=368667>. The page displays a resolution for the question about VMware Workstation Pro download locations. It includes a note about personal use and a table with download links for VMware Fusion Pro and VMware Workstation Pro.

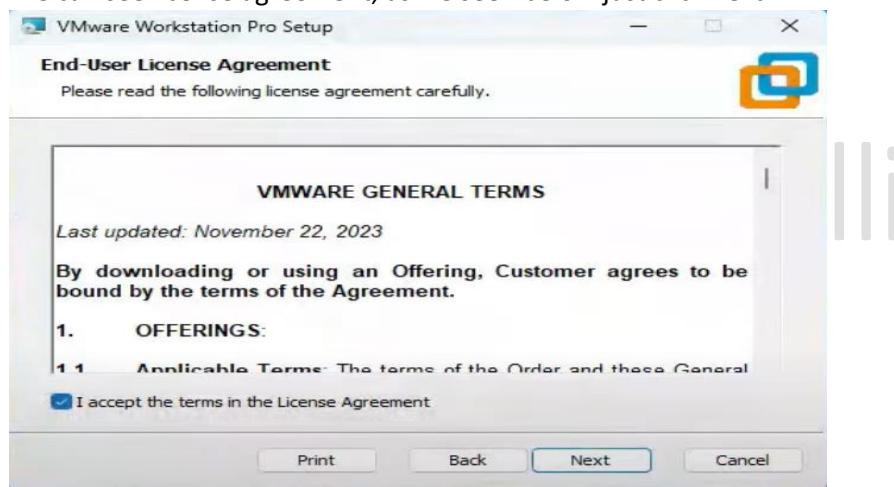
Product	Download Link
VMware Fusion Pro	<a href="#">Click Here</a>
VMware Workstation Pro	<a href="#">Click Here</a>

**Licensing Information:** No license key is required for Personal Use. When installing either application, you will be asked for a License Key and there will be an option to select for Personal Use.

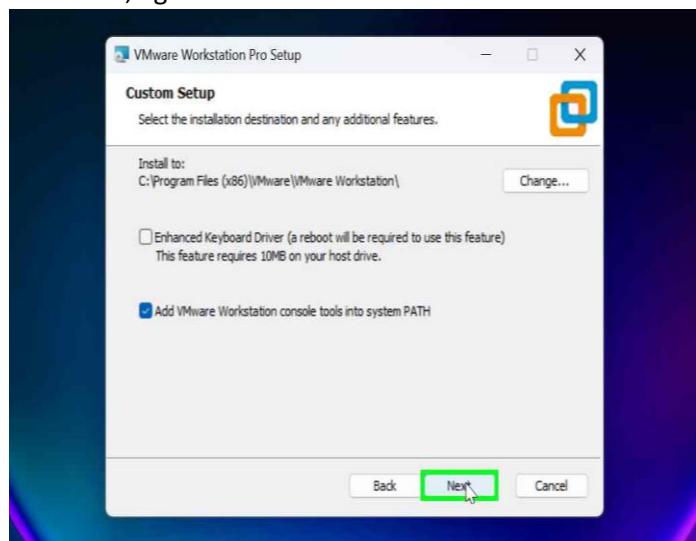
3. After Download, it takes some time. Once download is completed open that by click that application.



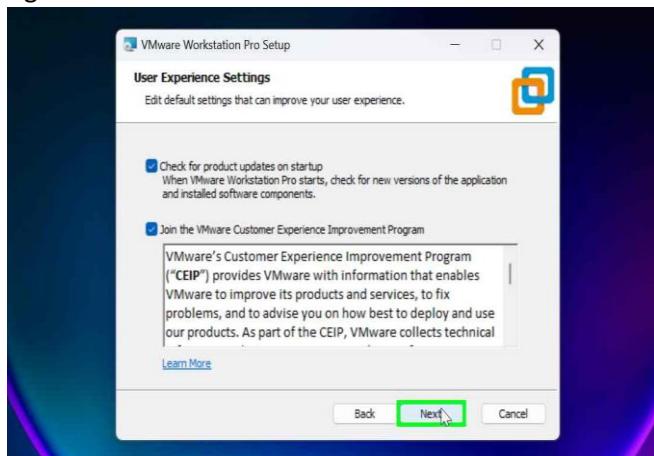
4. We can see license agreement, as we seen below just click next.



5. After that, again click next.



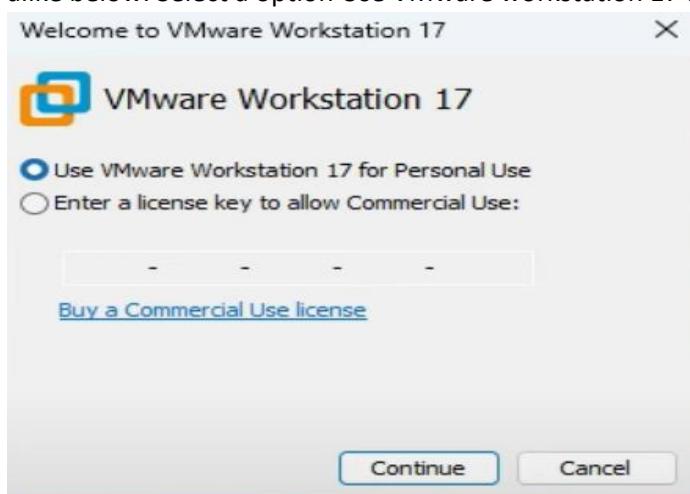
6. Again click next.



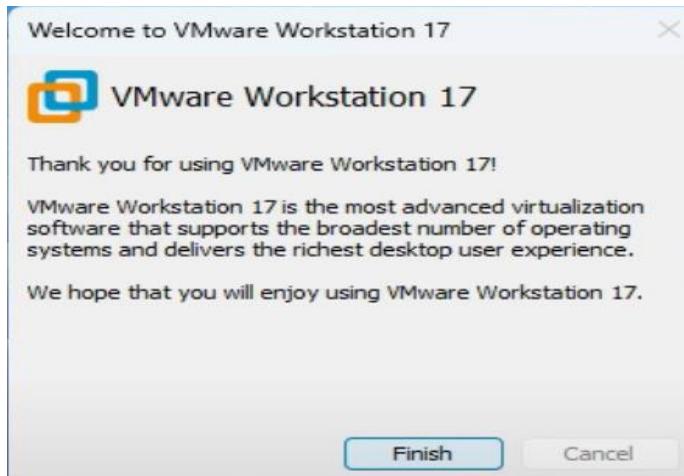
7. Click finish



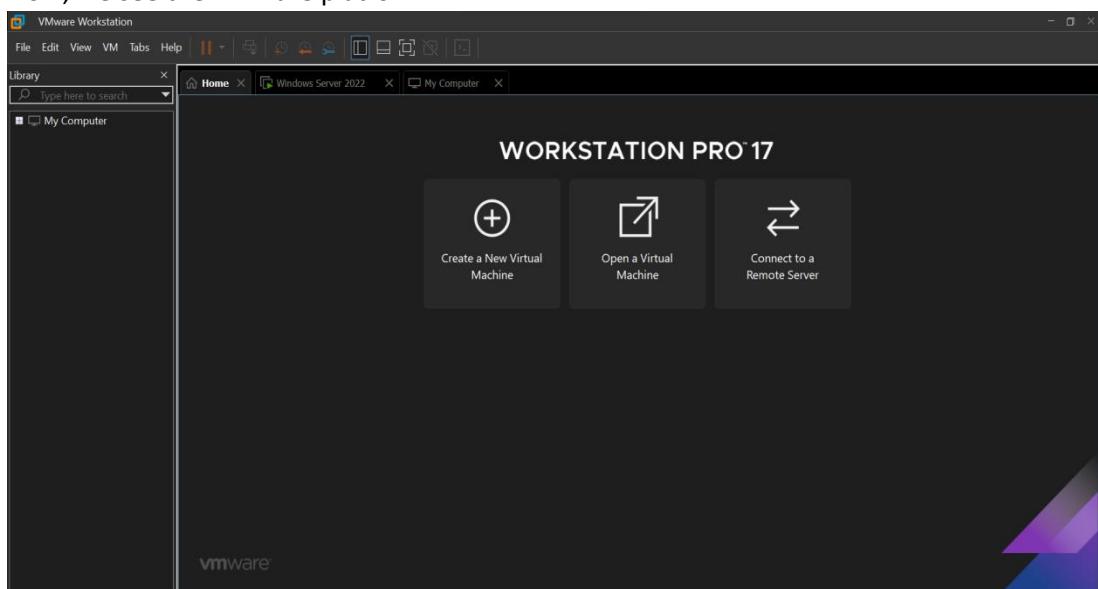
8. After all set up, we can see in VMware Workstation on desktop click open, then it shows alike below. Select a option Use VMware workstation 17 for Personal use.



9. Click finish.

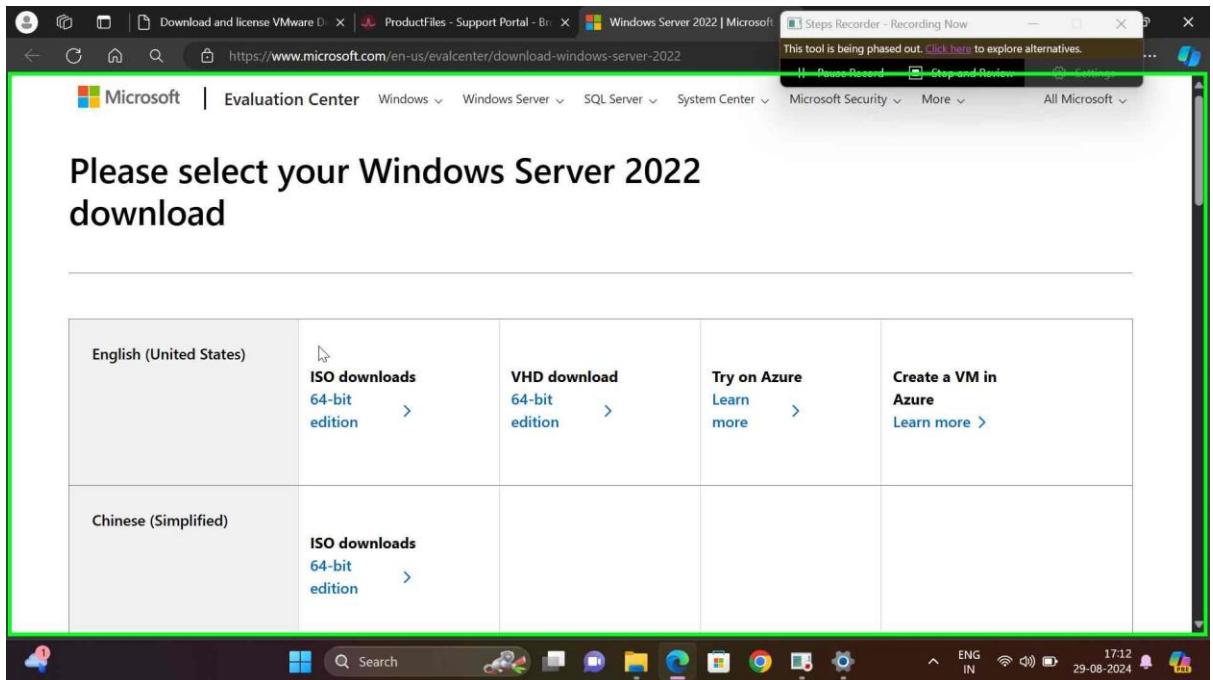


10. Now, we see the VMware platform.



## Windows server ISO download

1. To install Windows server ISO, you can search in any search engine as Windows server ISO version or [Windows Server 2022 | Microsoft Evaluation Center](#) click for windows server 2022 latest.

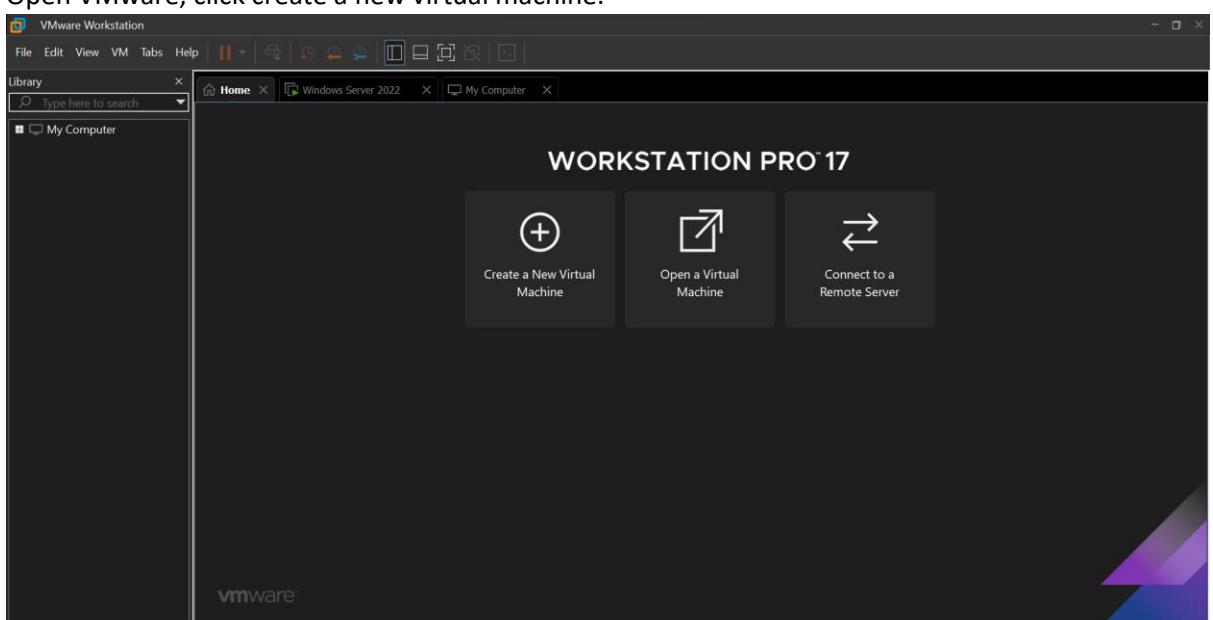


- It takes some time. Once download was completed. Then open VM ware workstation app to create virtual machine.

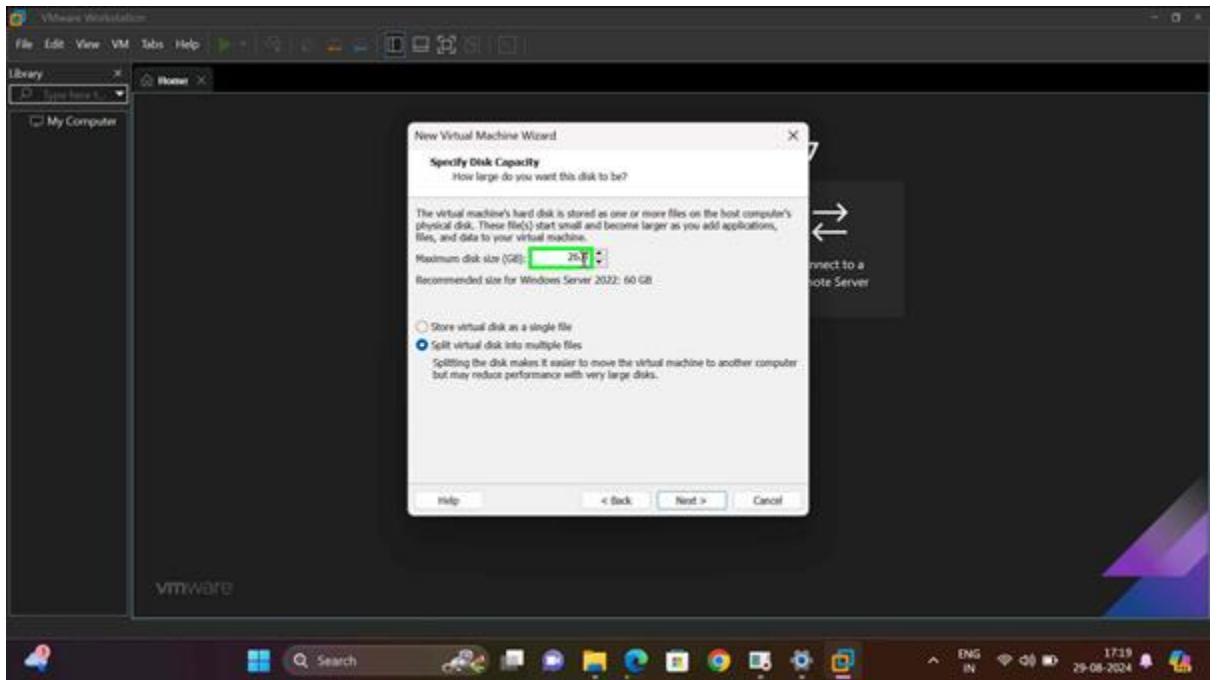
SERVER_EVAL_x64FRE_en-us	29-08-2024 17:51	Disc Image File	49,25,874 KB
VMware-workstation-full-17.5.2-23775571	29-08-2024 16:14	Application	6.33.101 KB

## Creating a new VM

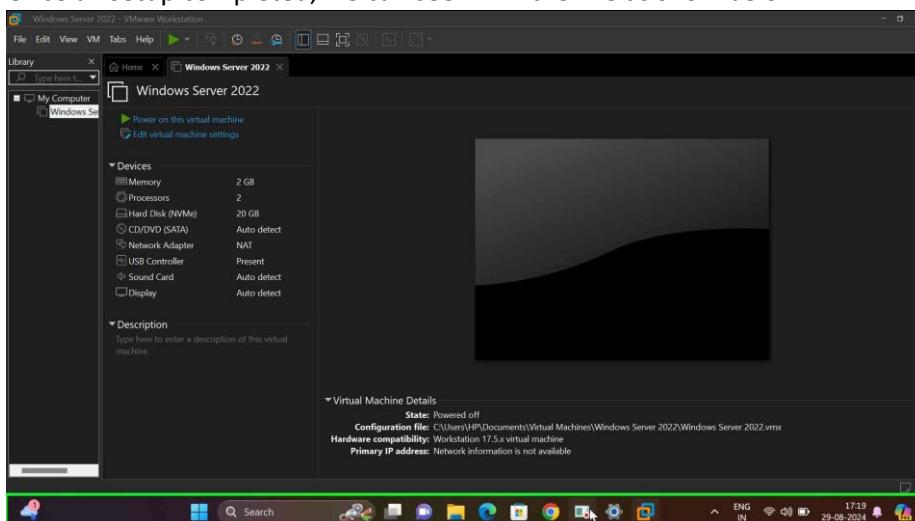
- Open VMware, click create a new virtual machine.



- Give some size for disk. Later, it can increase based on usage.

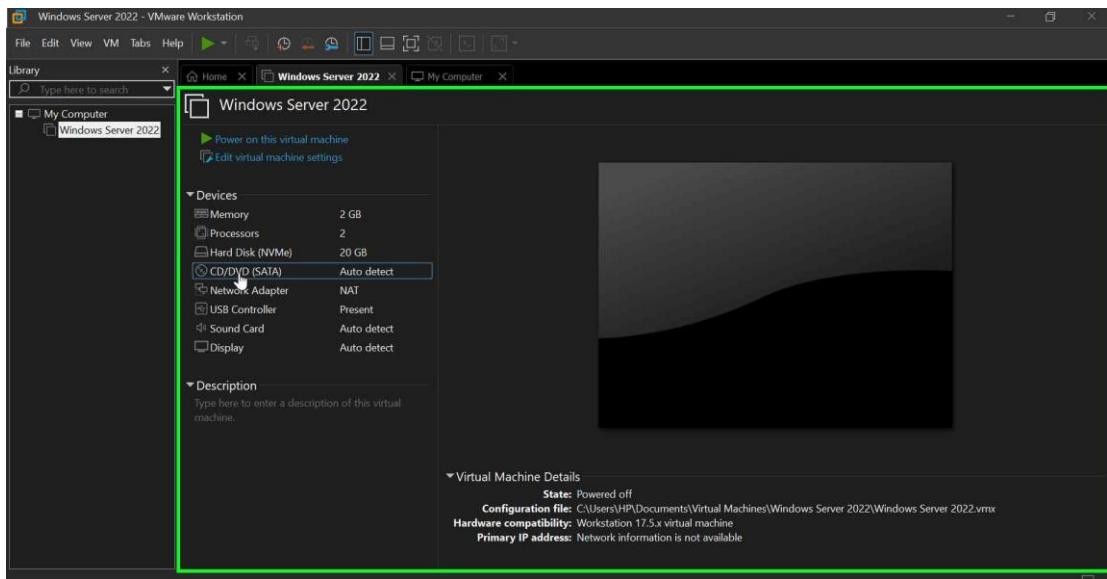


- Once all setup completed, we can see VM ware like as show below.

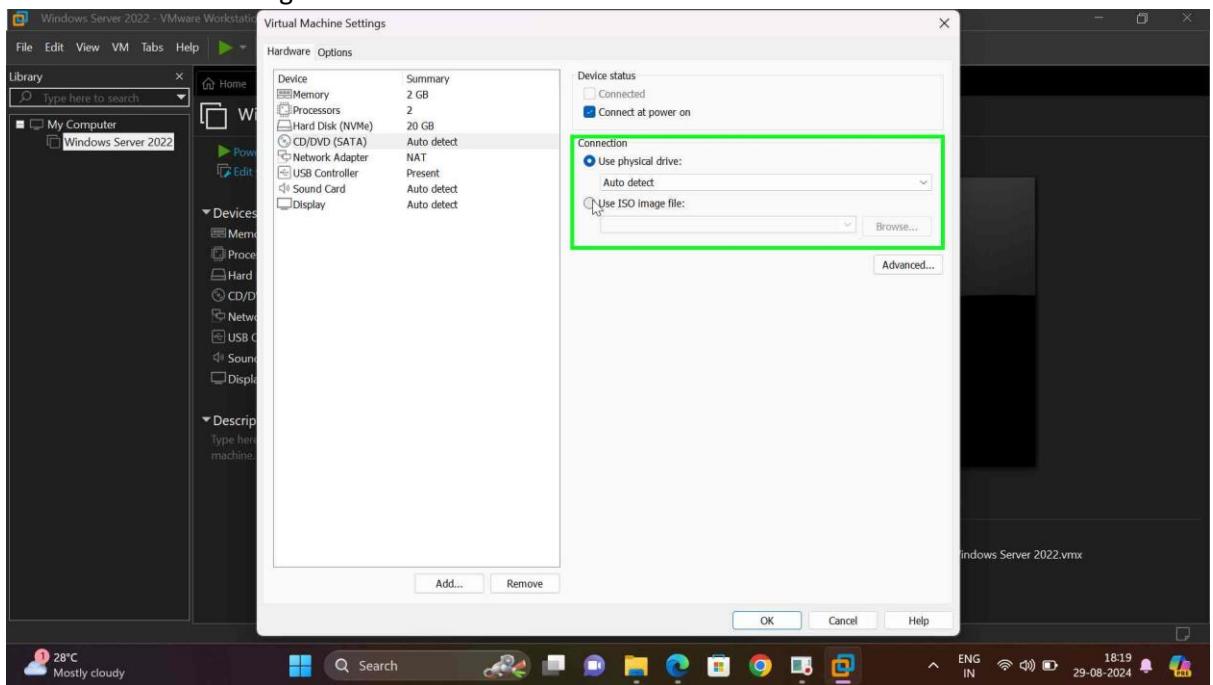


## Installing Window server on VM

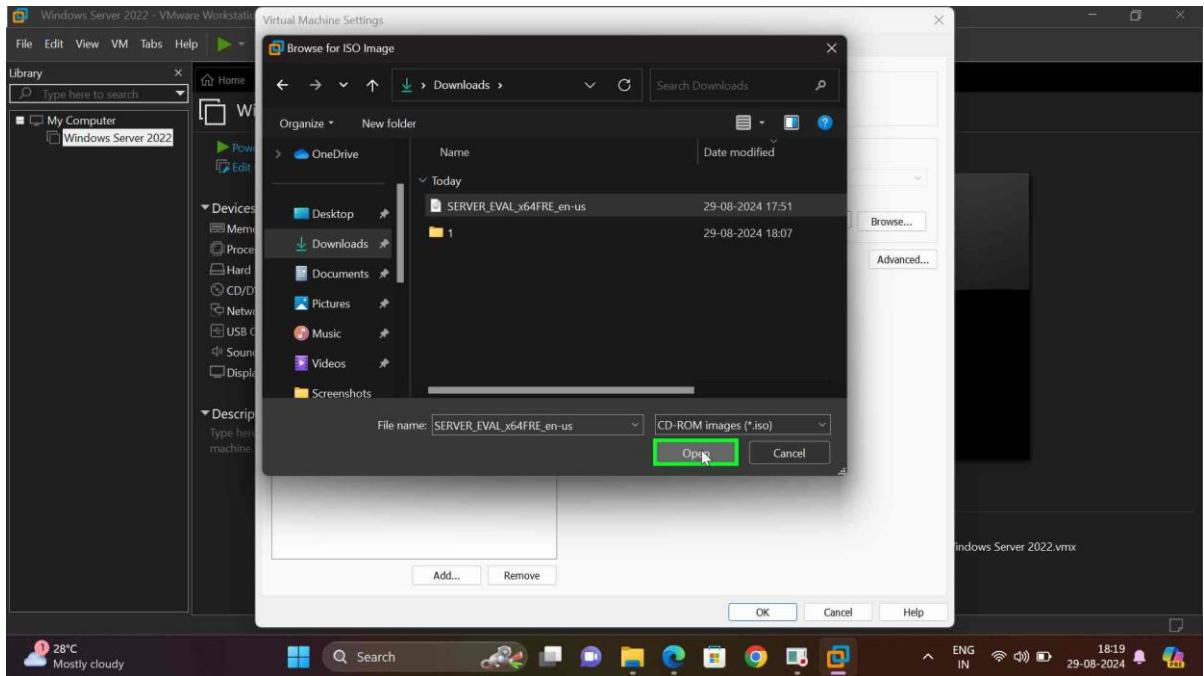
- To install Win server 2022 on VMware, open VMware, then click on CD/DVD( SATA).



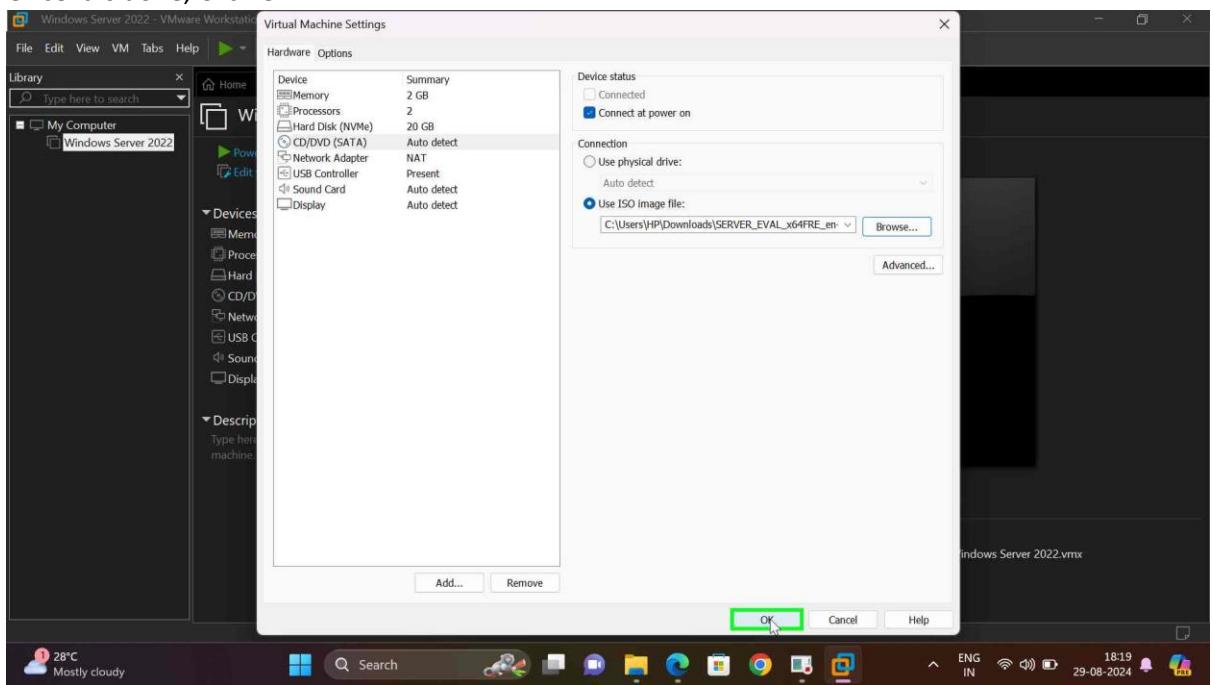
## 2. Enable the use ISO image file



## 3. By clicking on browser, open the downloaded ISO file.



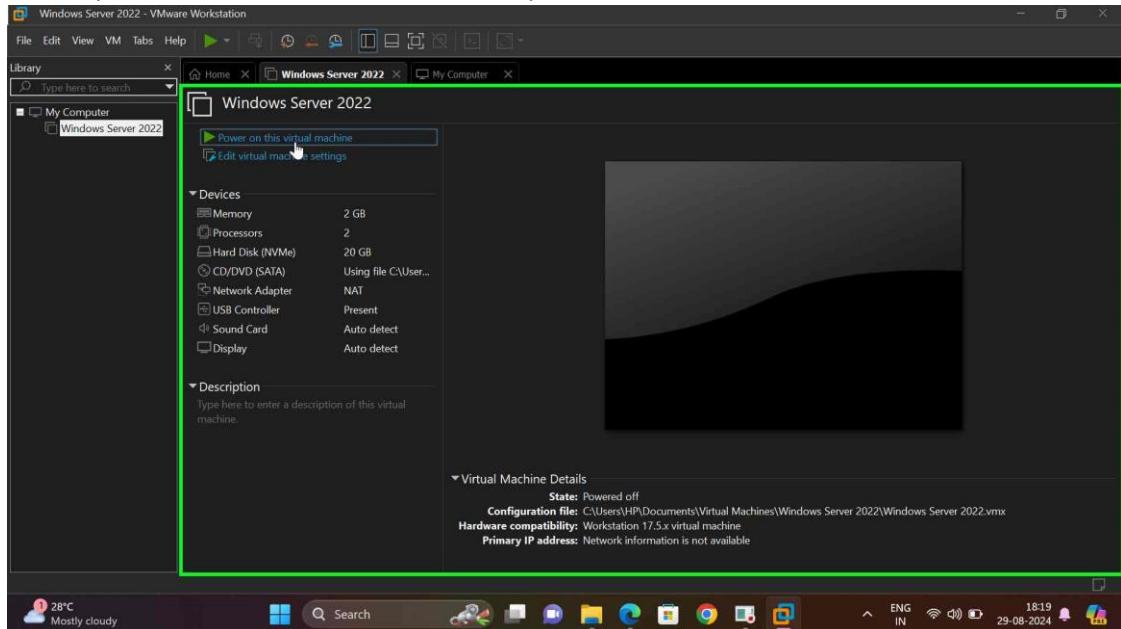
4. Once it is done, Click Ok.



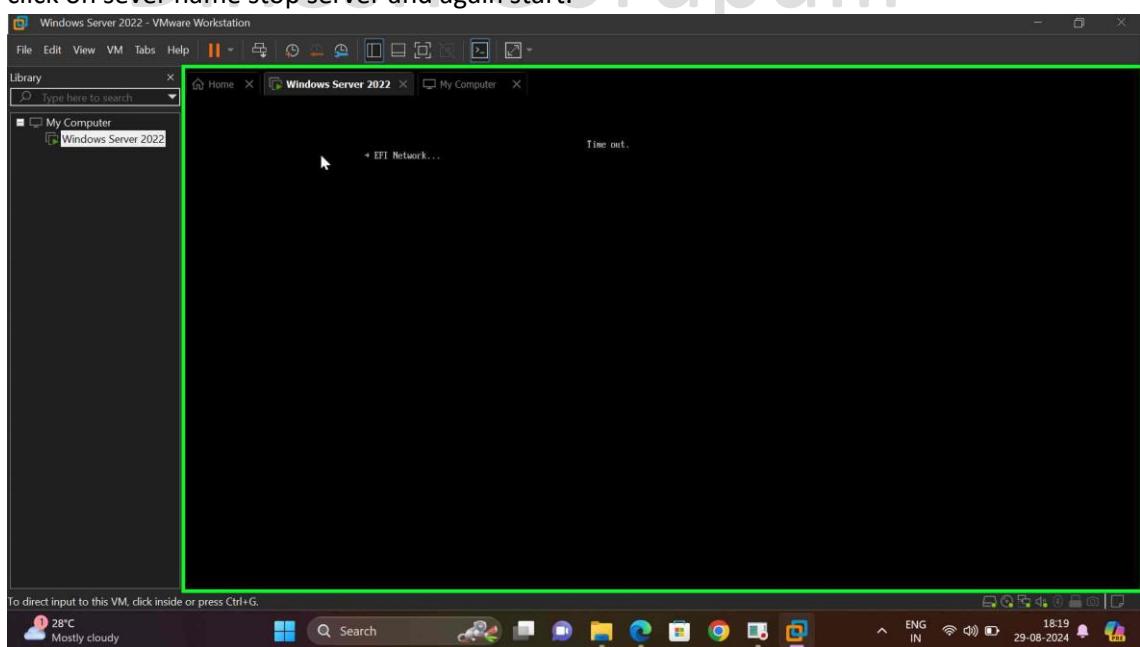
Hence, in this way we install Window server on VMware workstation.

## Windows Server Setup.

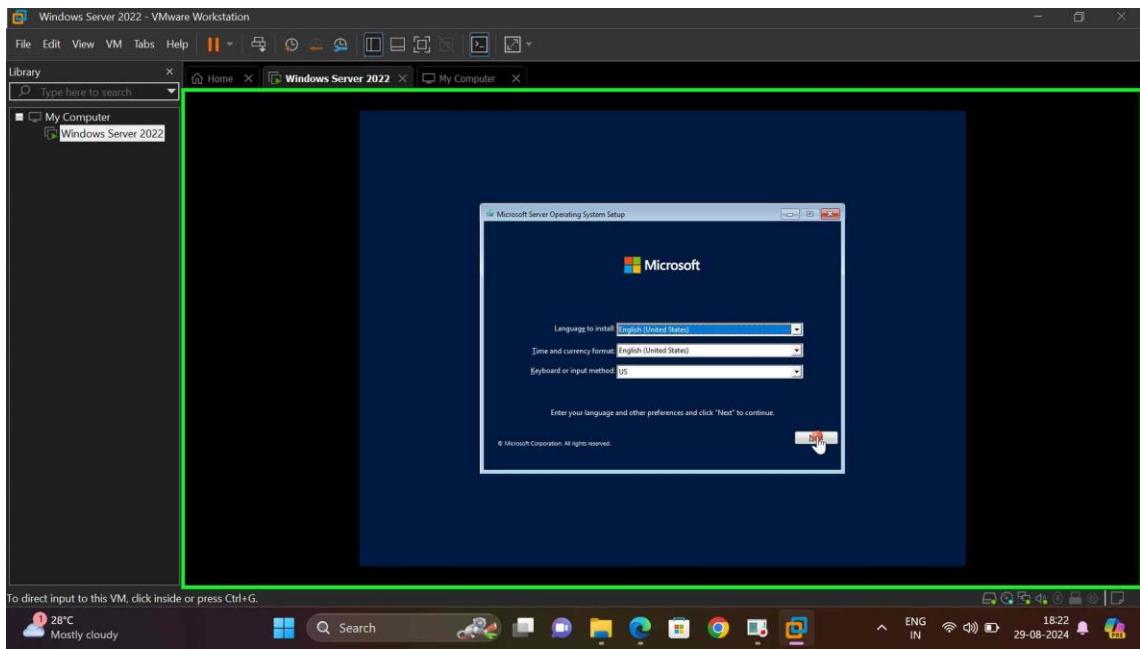
1. To setup window server 2022, now click on power on the vm.



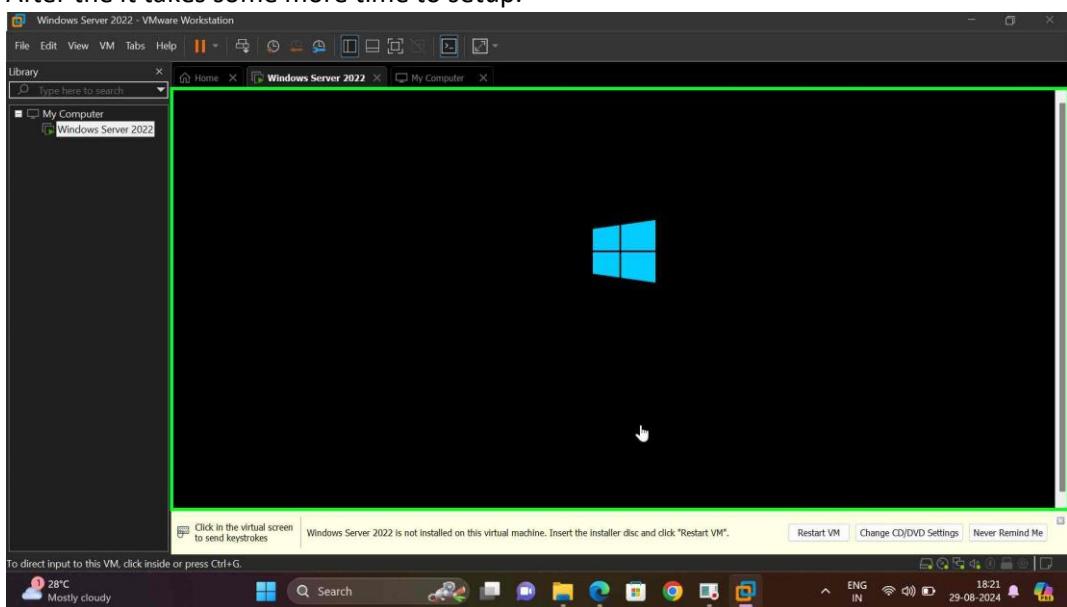
2. Once on, click any key asap if not you can see this kind of error. In that situation just right click on sever name stop server and again start.

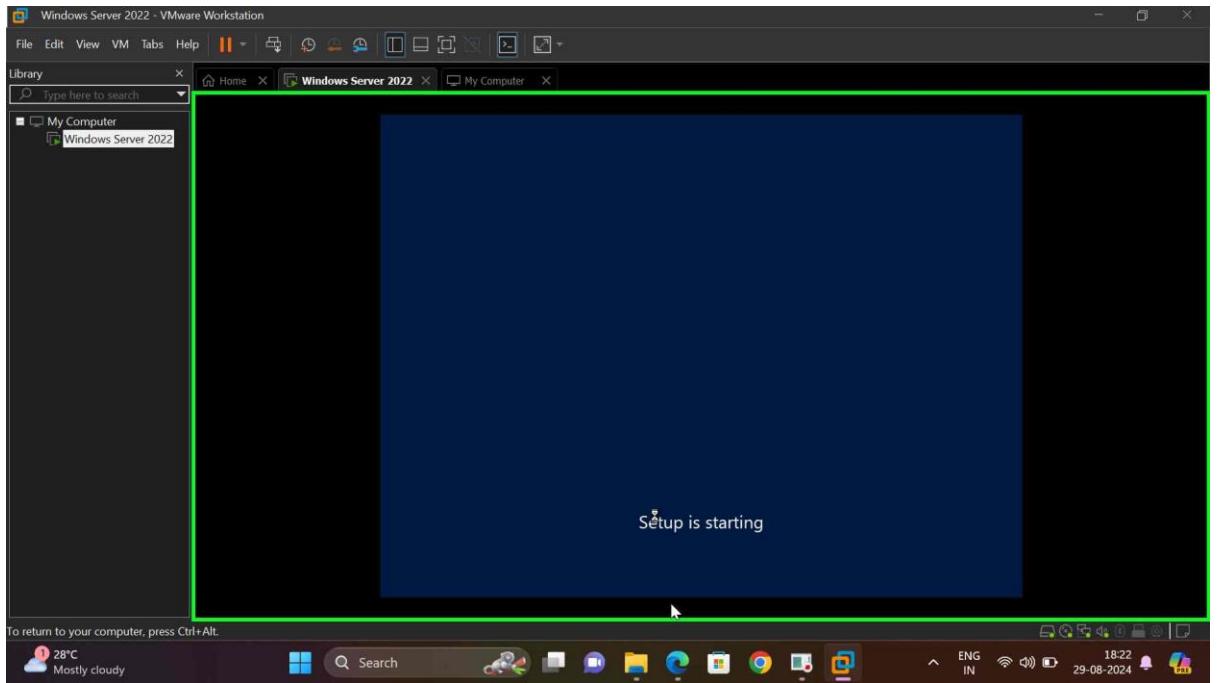


3. Now we see this kind of pop window, just click next.

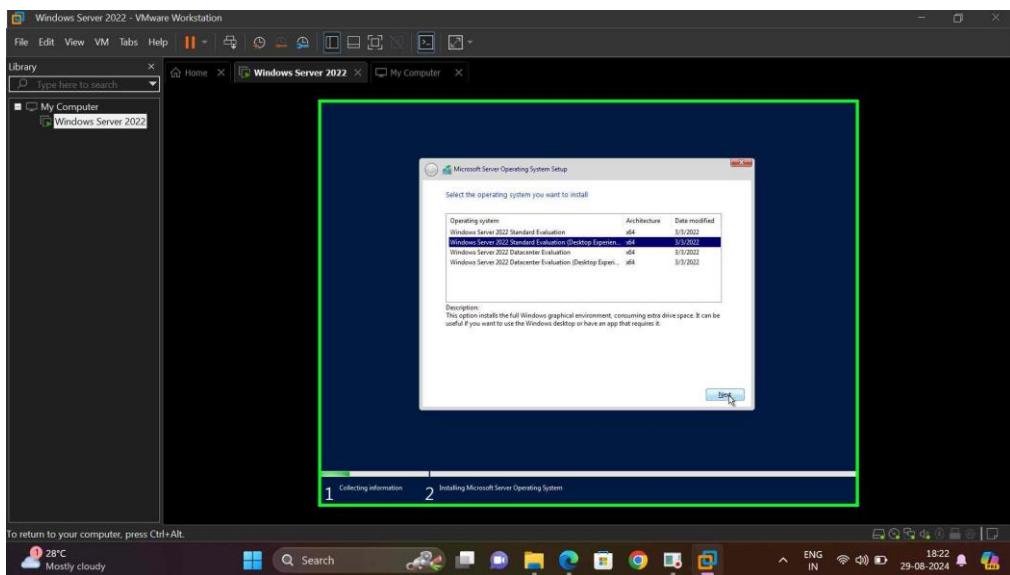


4. After the it takes some more time to setup.

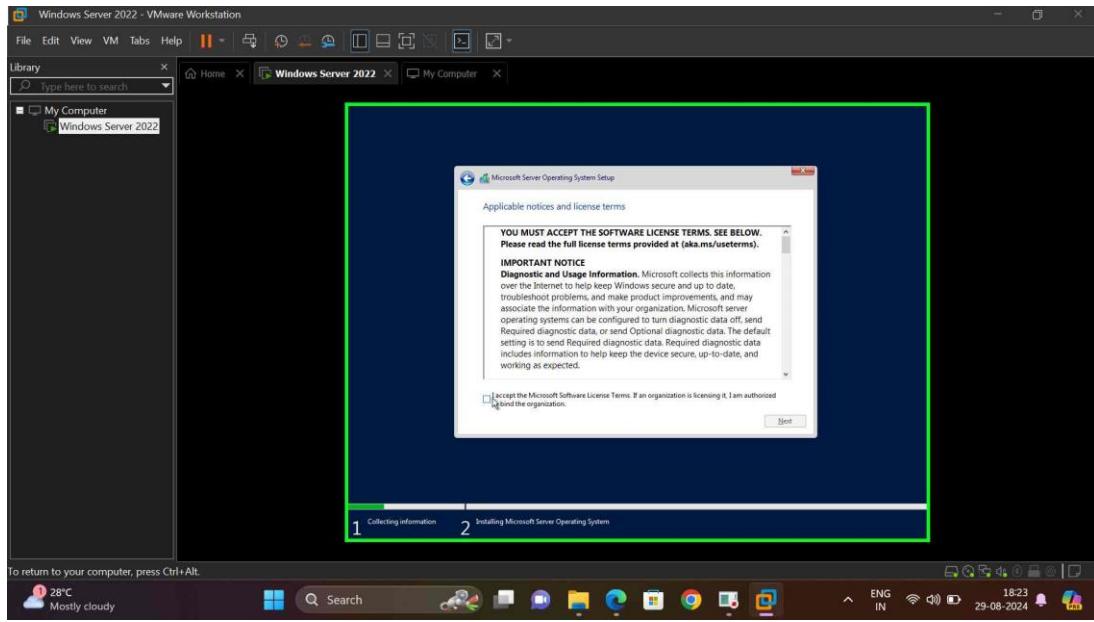




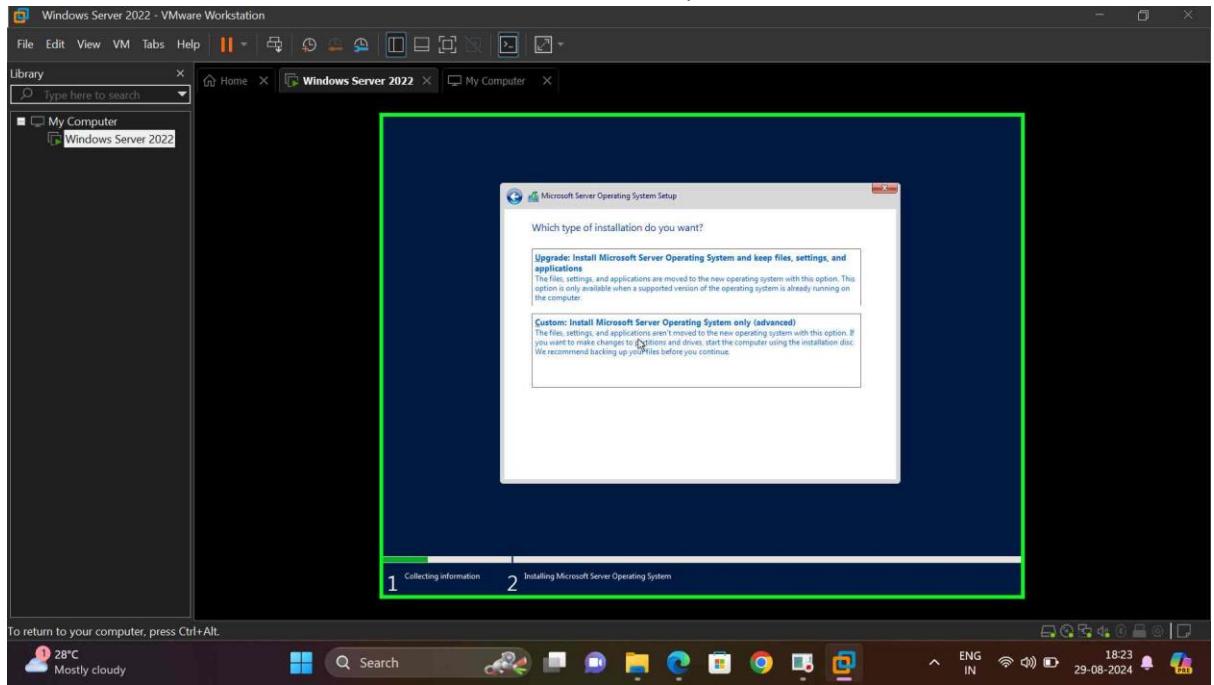
- Now, select the Windows server 2022 standard evaluation( Desktop Experience).



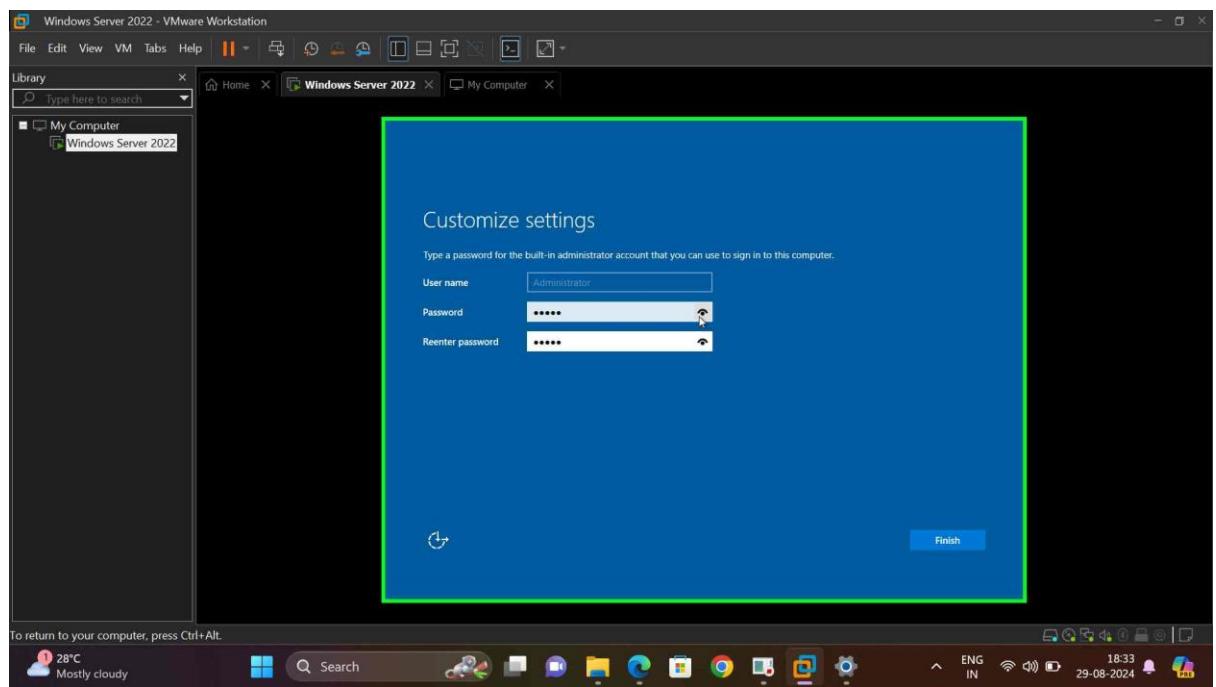
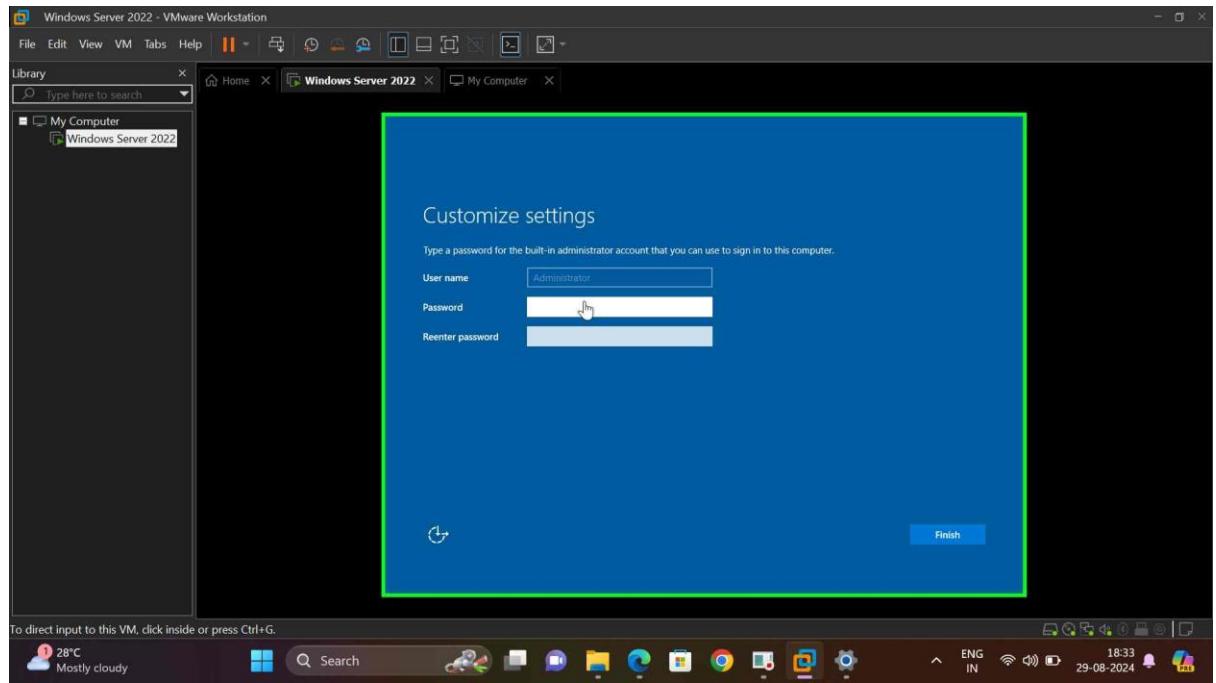
- Accept that software license by clicking on checkbox then click next button.



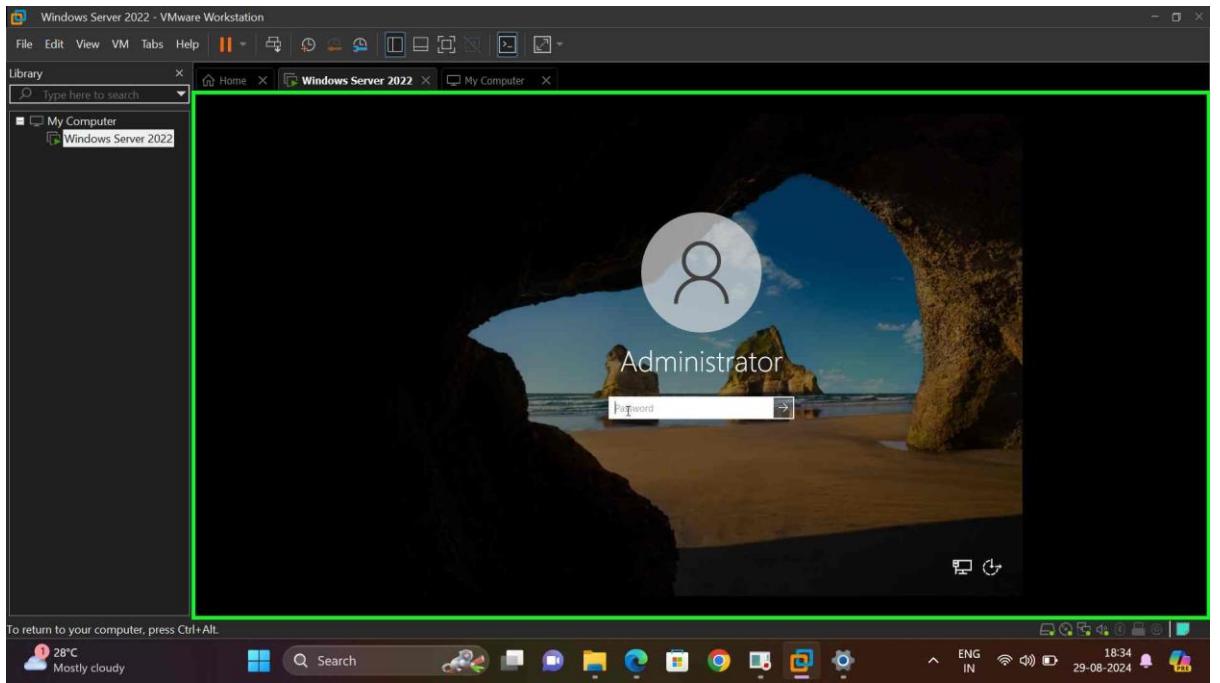
7. After that , select Custom and wait for some time to setup.



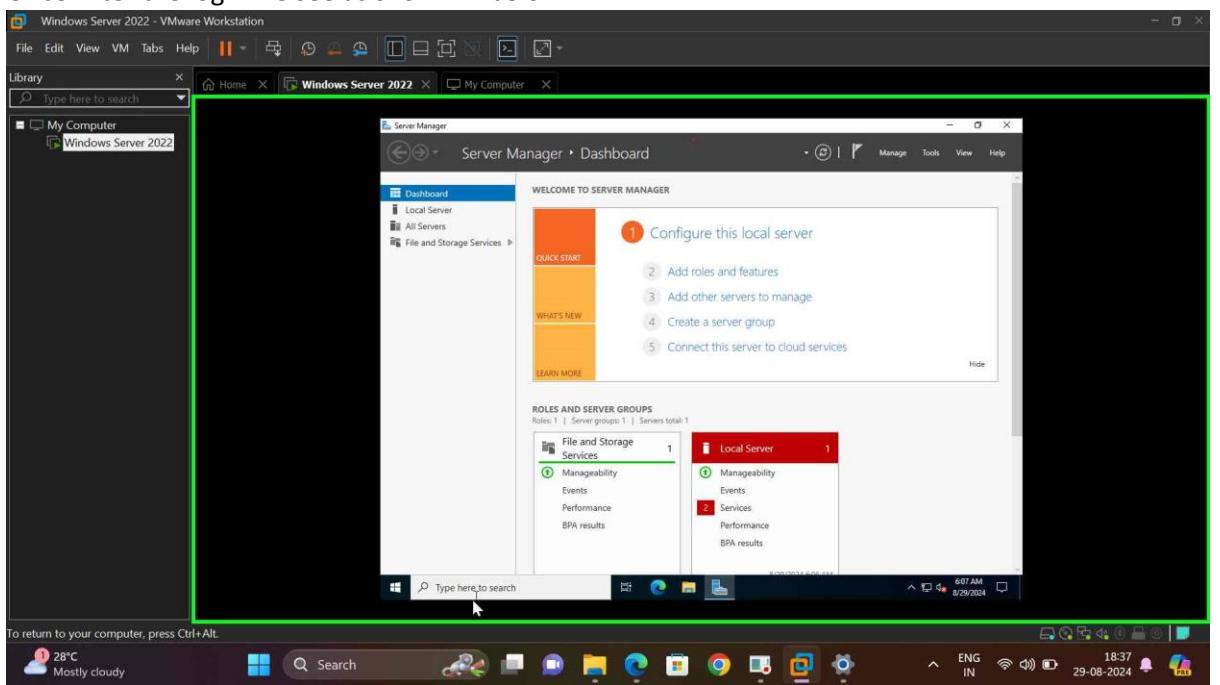
8. Now , we see customize setting for password to set.



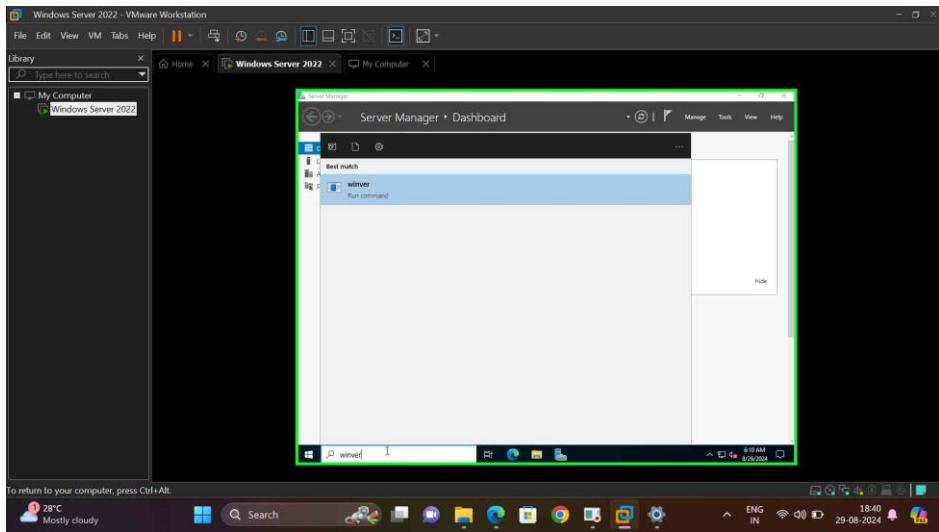
- Now to login into server, we enter with that credentials.



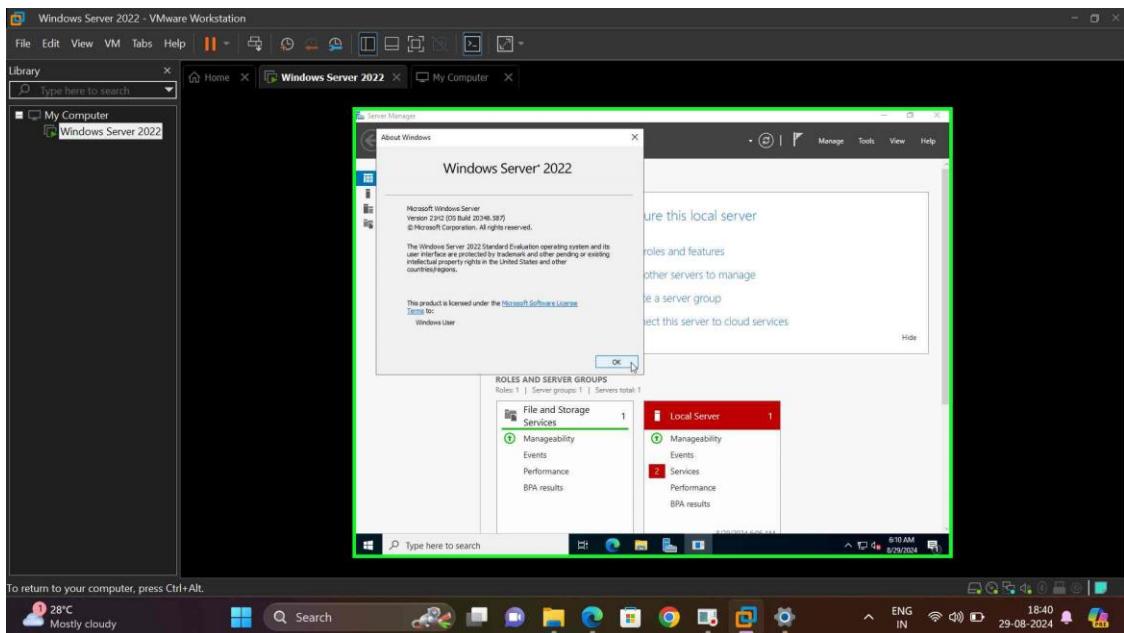
10. Once After the login we see as shown in below



11. To check whether we install correct server version or not, just type in search as winver as shown below. Then we see details of server with that pop window.



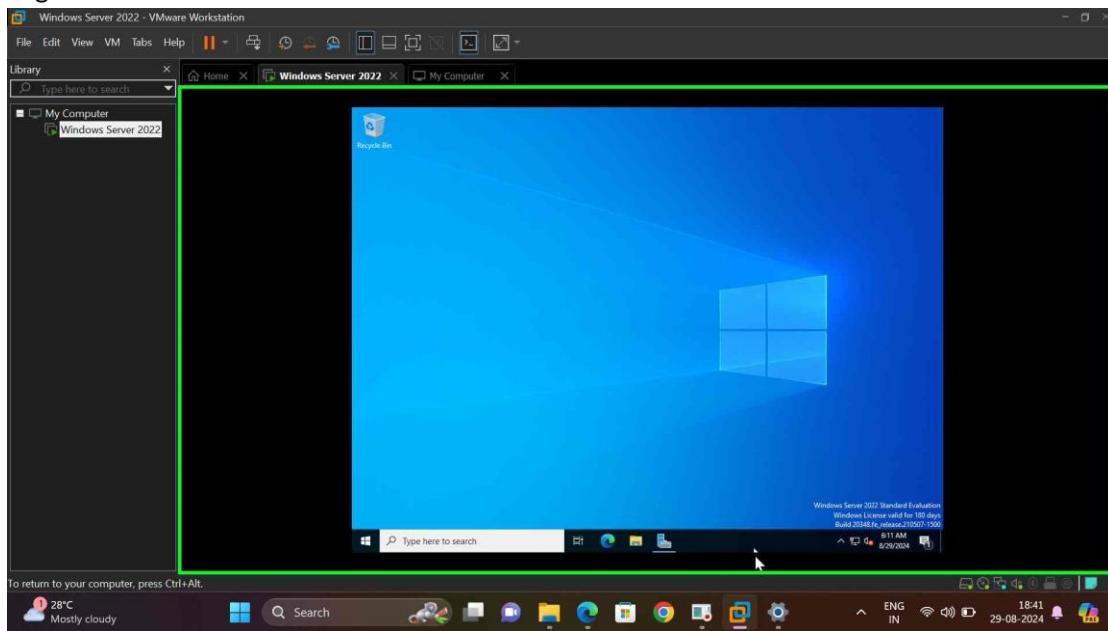
## 12. Click ok



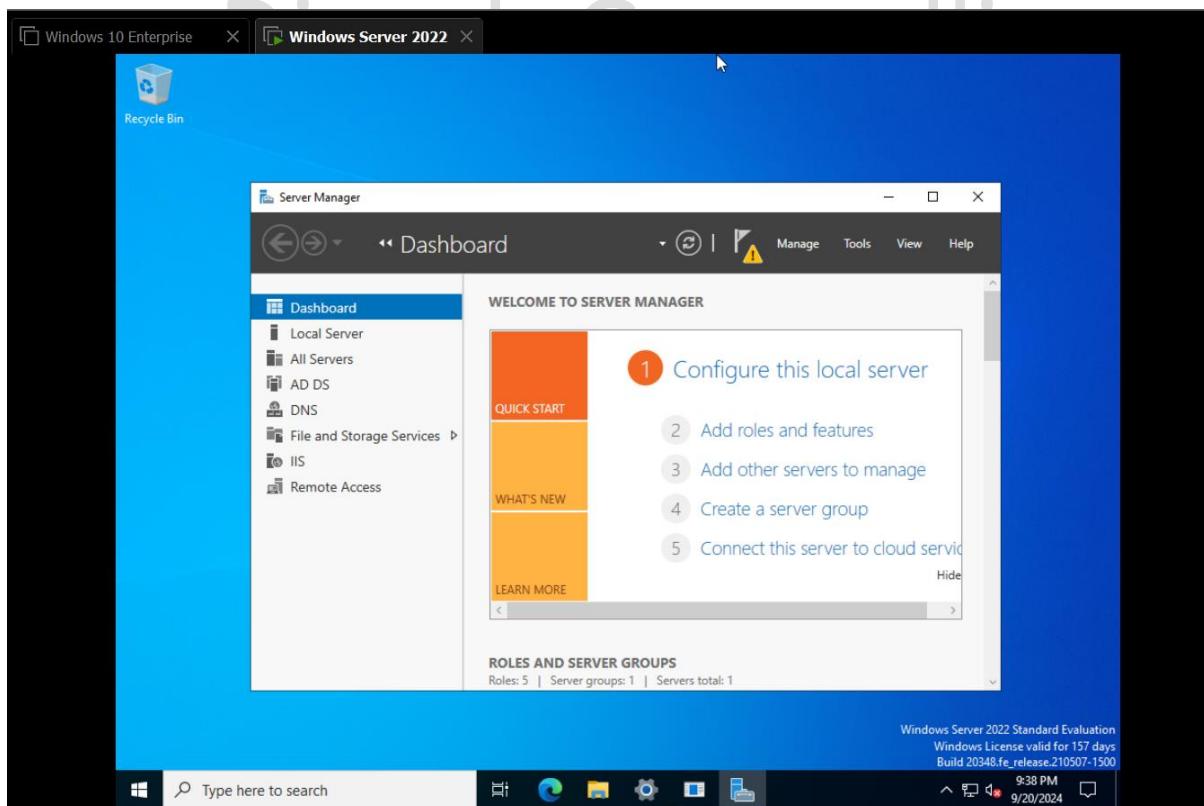
Therefore, in this way we setup window server 2022 on VMware workstation.

## Installing Active Directory:

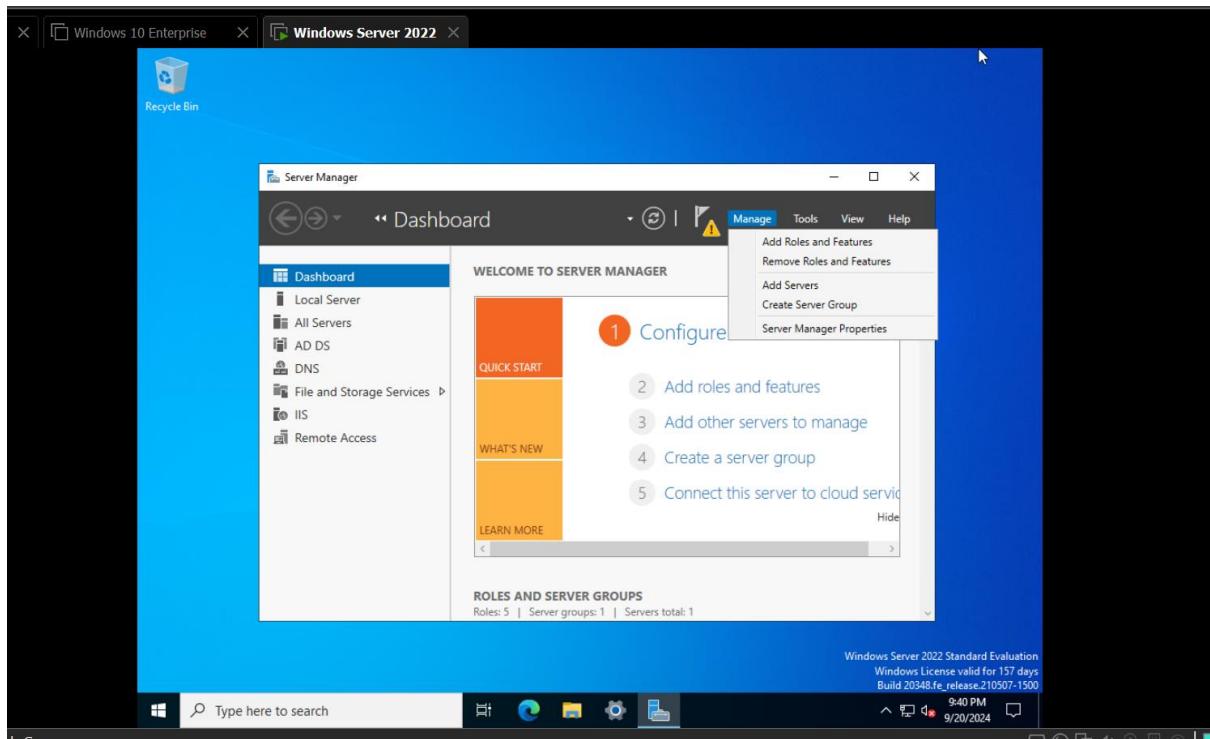
1. Login into the Window Server.



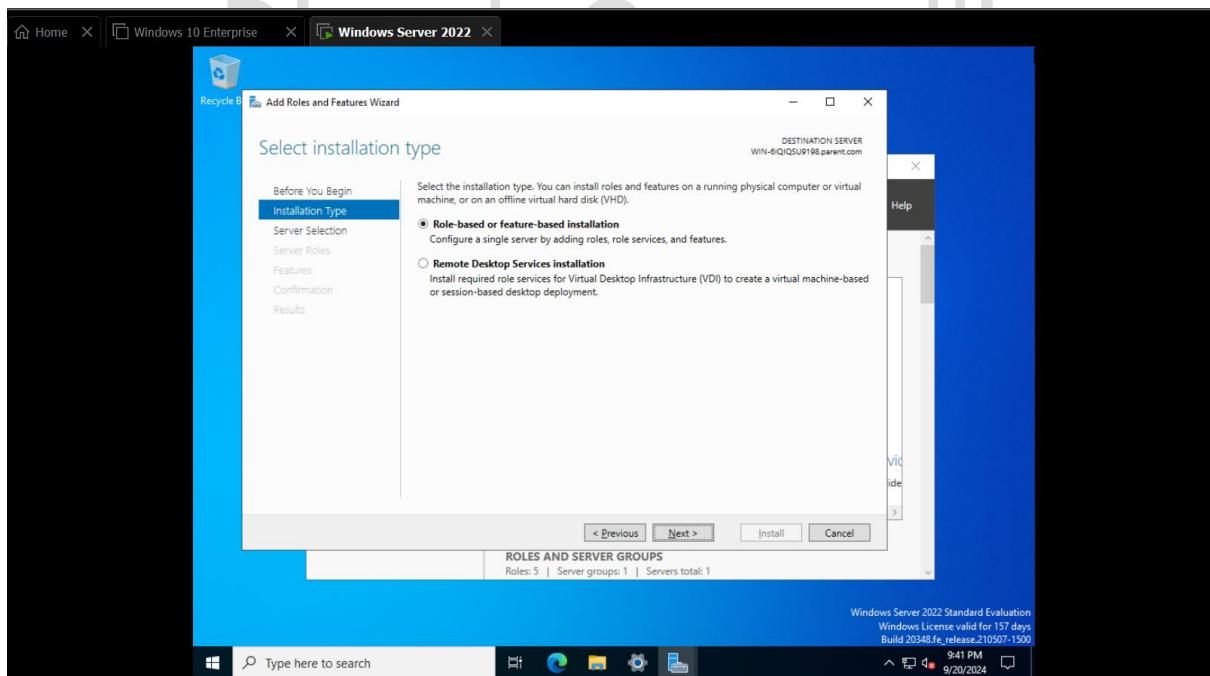
2. Open Windows server, then search for "Server manager"



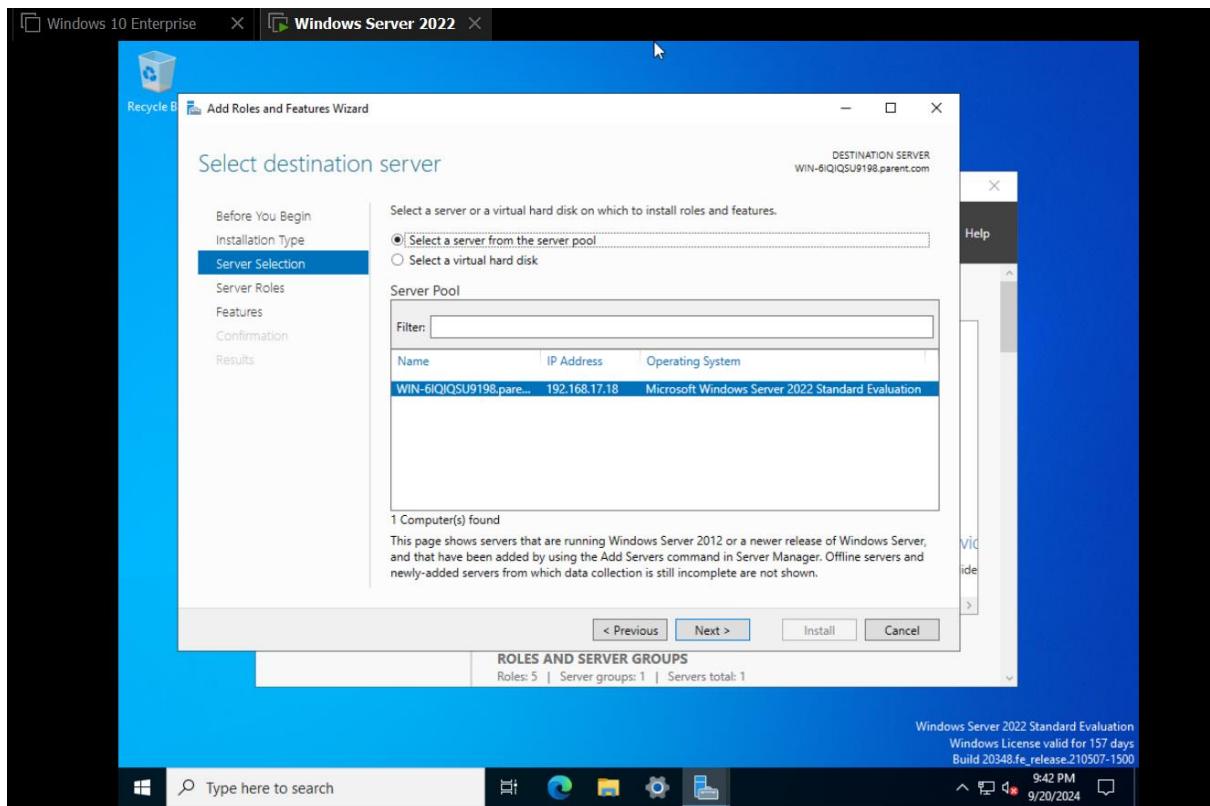
3. Click the manage, then select Add Role and Features.



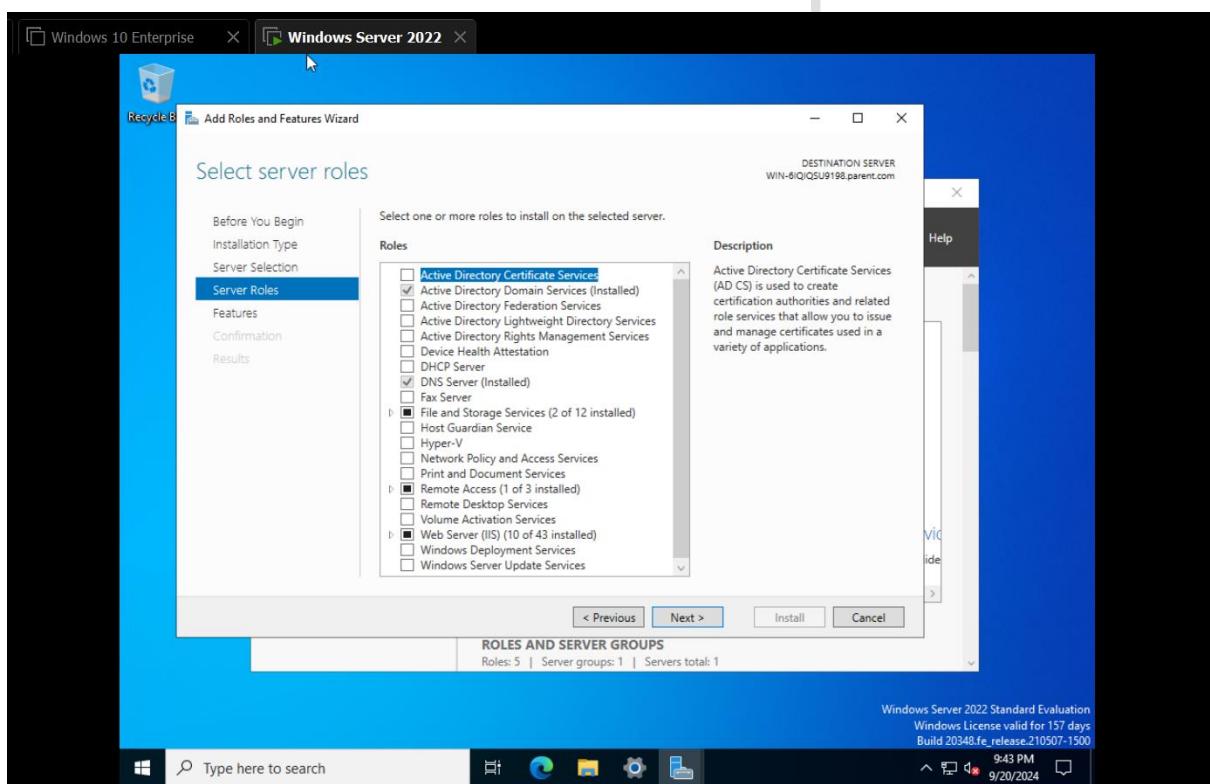
4. Then select type “Role-based or feature-based installation”.



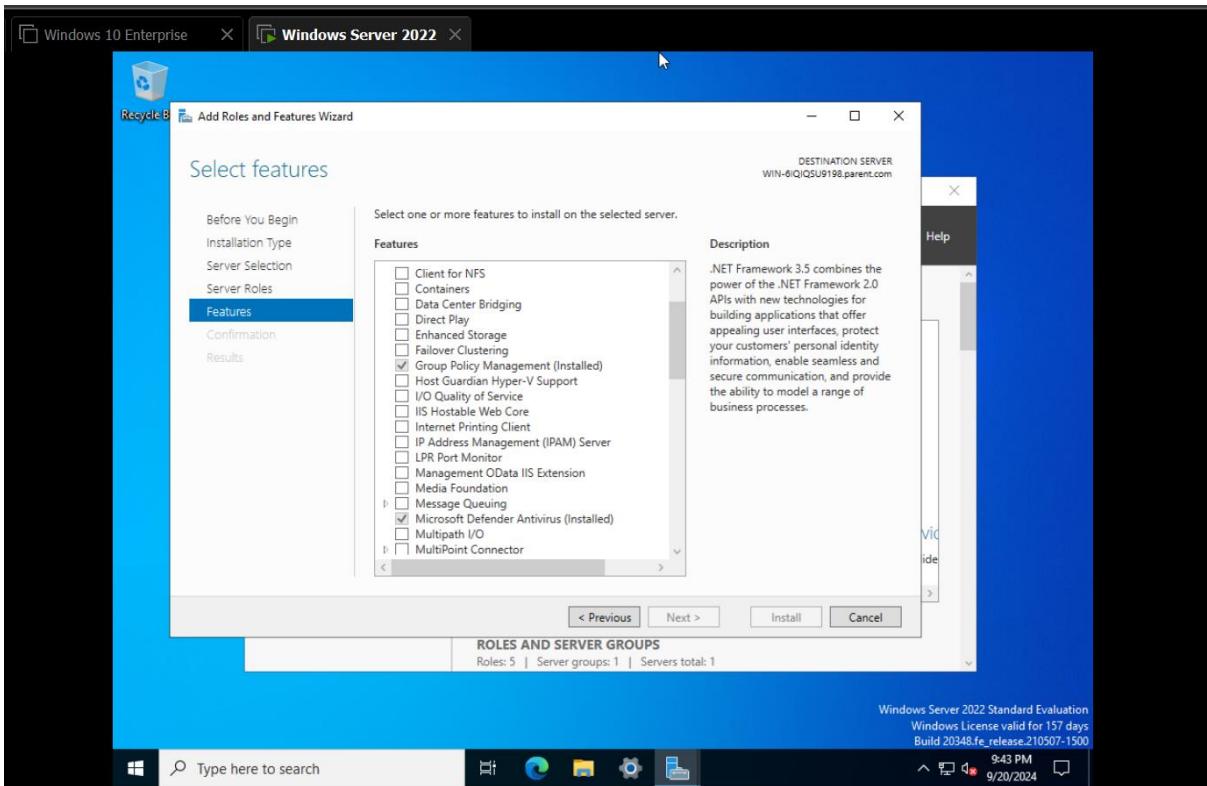
5. Select destination server, click Next.



6. In the select server roles we have to select “Active Directory Domain Services” , then click next.



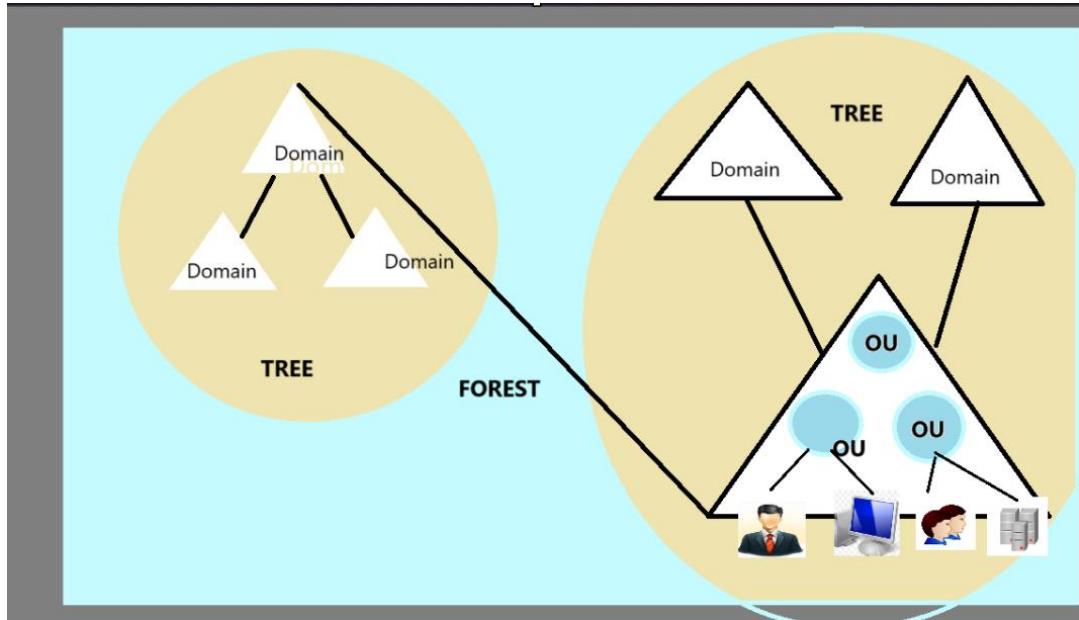
7. In feature, we can see “Group Policy Management (Installed)”. Select and install it.



Hence, In this way will create Active directory Installation.

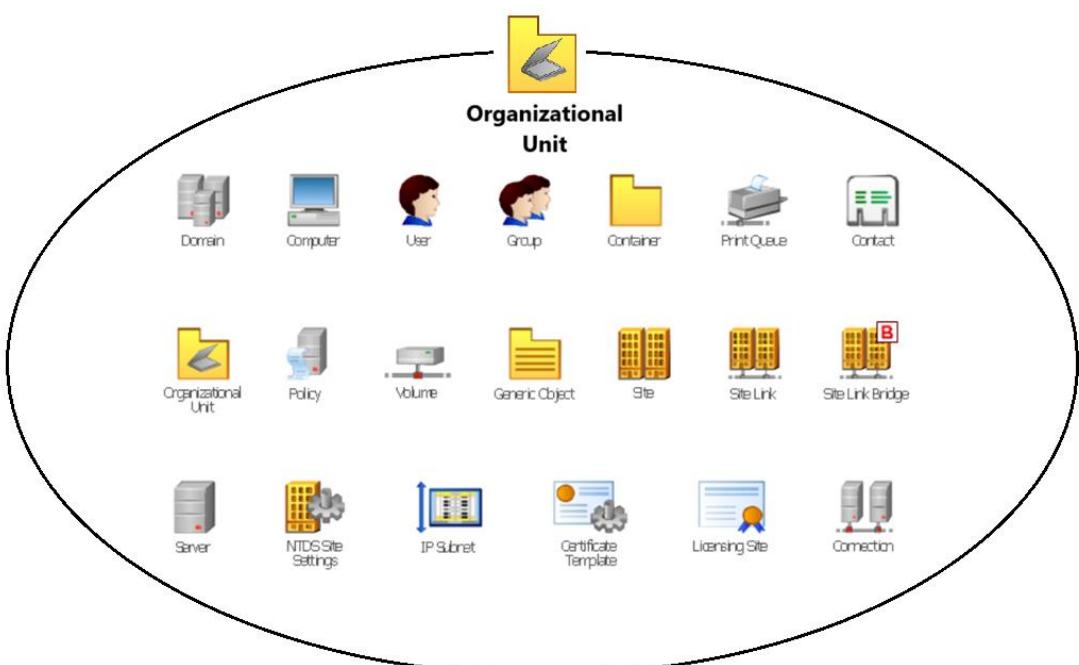
## Active Directory Forest Structure.

1. Tree - A hierarchical collection of domains with a single starting organizational unit (OU) and a series of subdomains. Domains and subdomains share a common naming convention.
2. Forest- A collection of one or more trees that share a single database, global address list, and security boundary
3. Trust relationships - Domains in a tree have a transitive trust relationship, meaning that if a domain joins a tree, it automatically trusts all the other domains in that tree.
4. Security boundary - The security boundary of Active Directory is at the forest level. By default, a user or administrator in one forest cannot access another forest.
5. Isolation - Forests can be used to isolate Active Directory trees with specific data.
6. Trust between forests - A trust relationship can be set up between two forests to allow them to share resources together. This is called a forest trust.

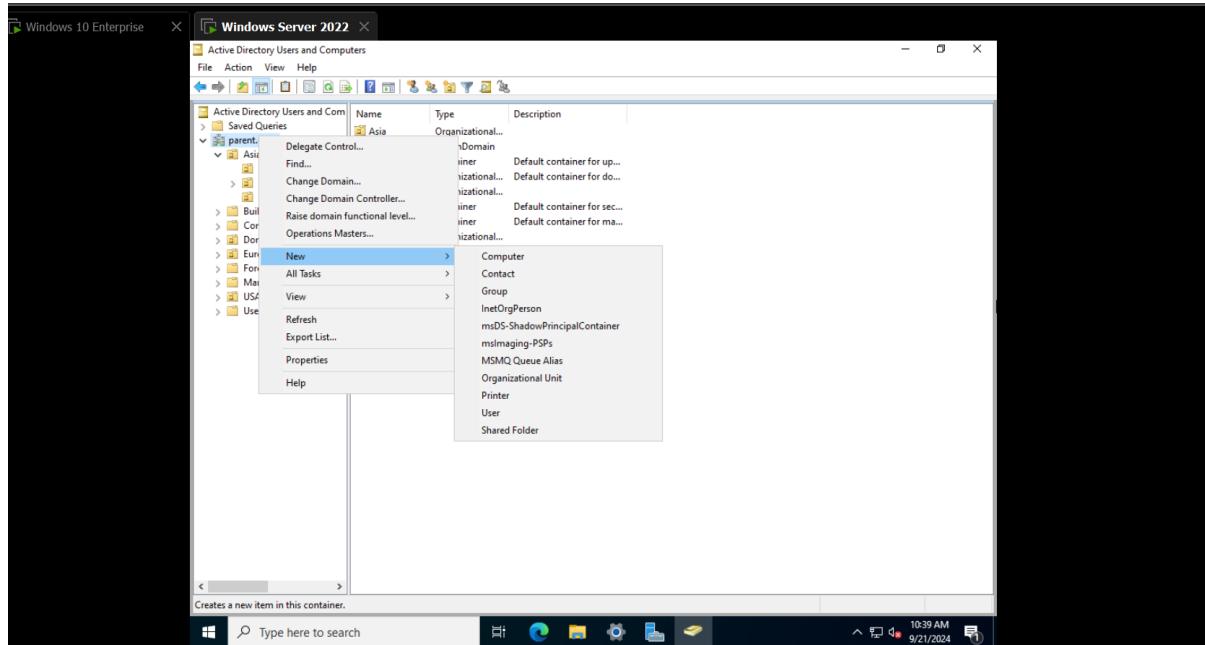


## Creating OU in Active Directory.

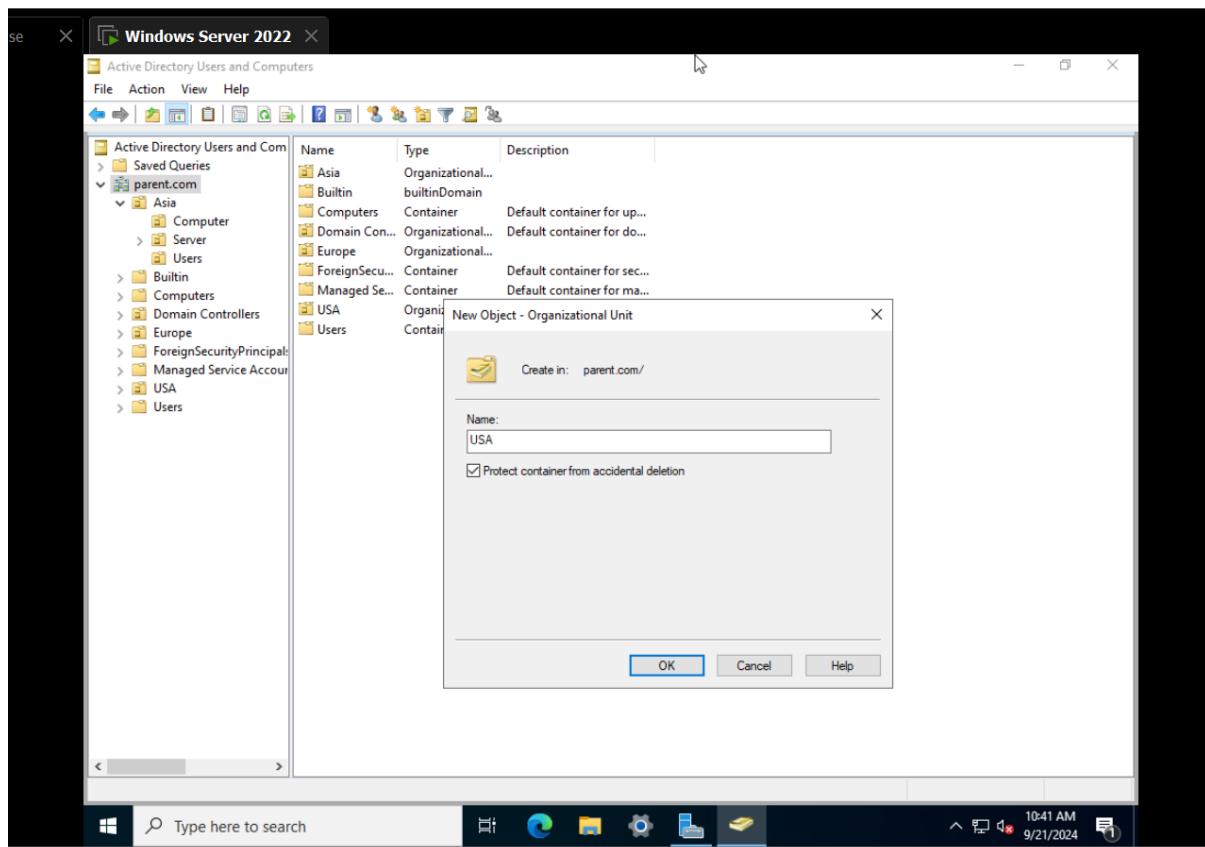
An organizational unit (OU) in Active Directory (AD) is a container that groups objects like users, computers, and groups. OUs are similar to folders and can be organized hierarchically to reflect an organization's structure



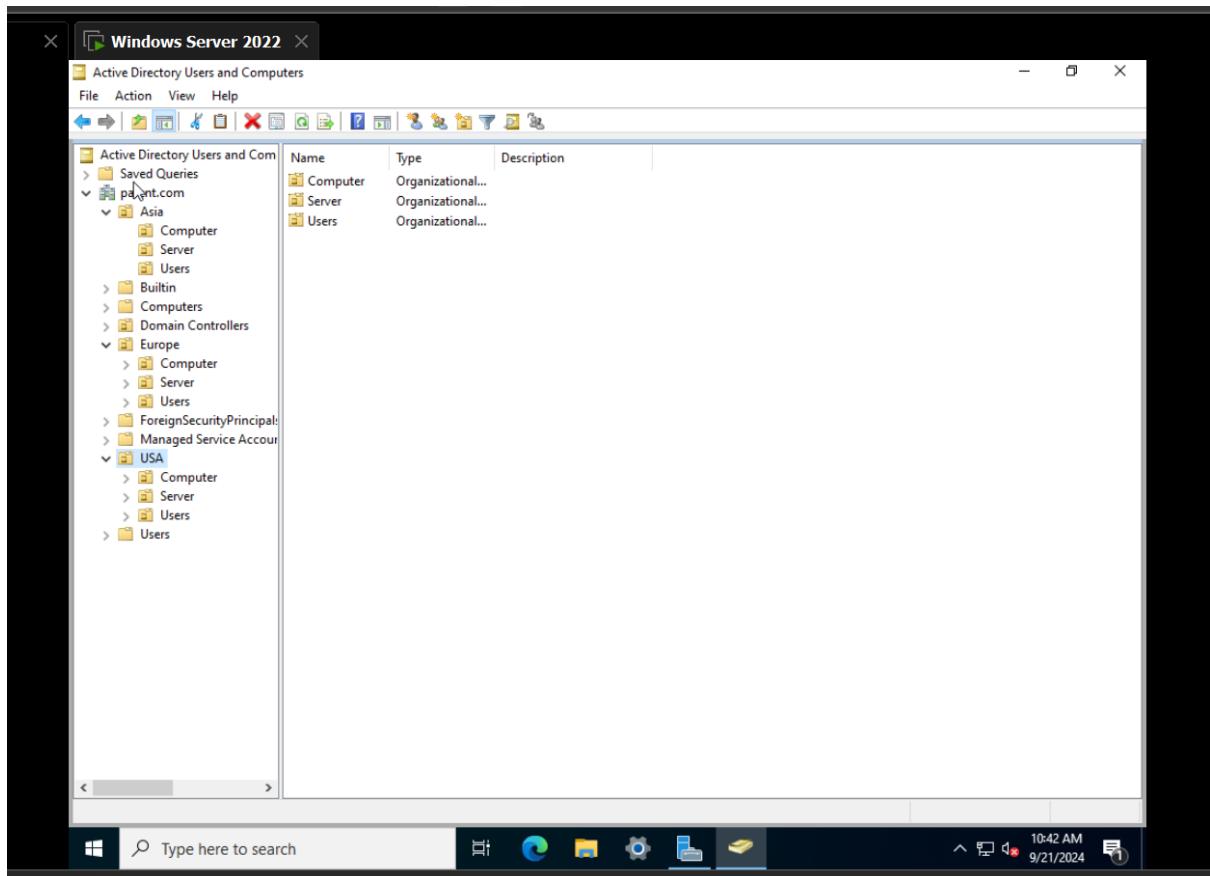
1. To create OU, go to Active directory User and Group, there we see domain name , right click on it select new , then select Organizational unit.



2. Type the name of the OU which you want. Then click ok.



3. We see the OU's in left control panel side.



Hence, in this way we create OUs in Active Directory.

## Creating Groups in Active Directory.

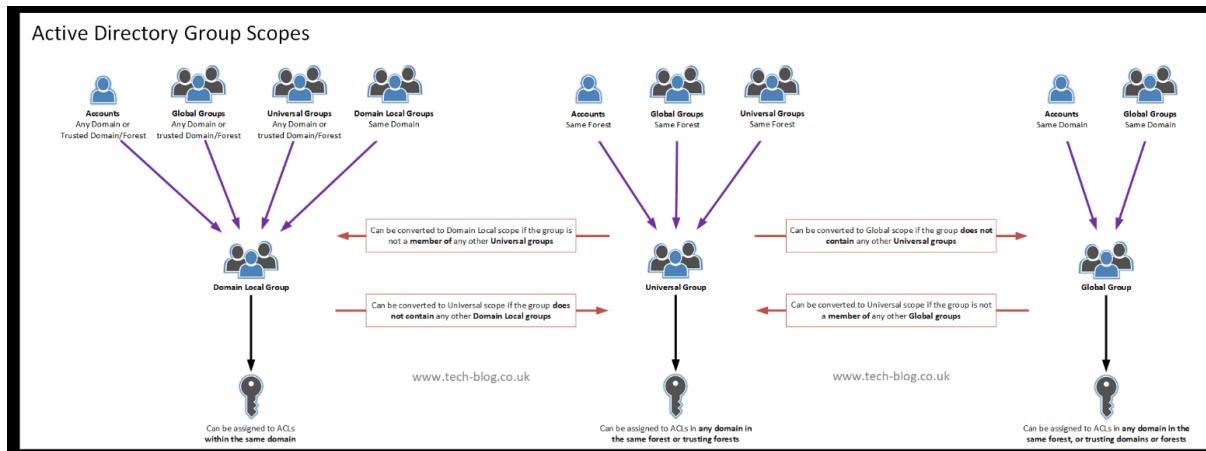
Active Directory (AD) groups are collections of objects, such as users, computers, and other groups, that are used to simplify the administration of user accounts and computers.

There are two types of AD groups:

1. Security groups: Used to assign permissions to shared resources
2. Distribution groups: Used to create email distribution lists

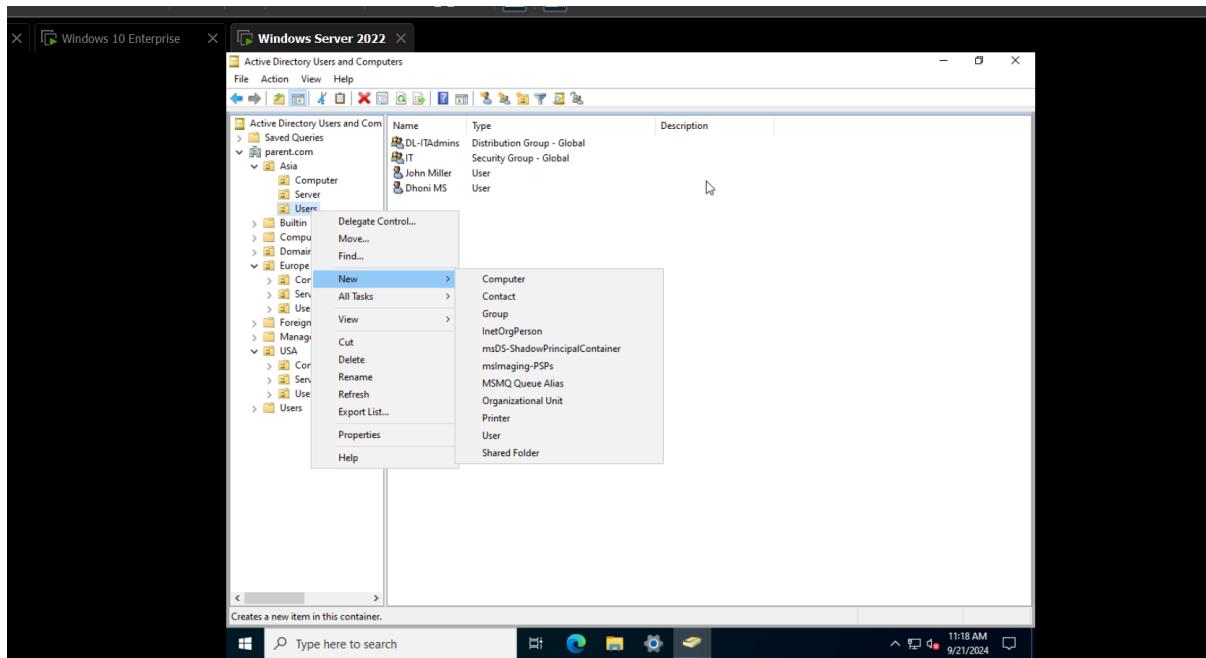
There are three of AD groups scopes:

- Domain Local group
- Universal group
- Global group

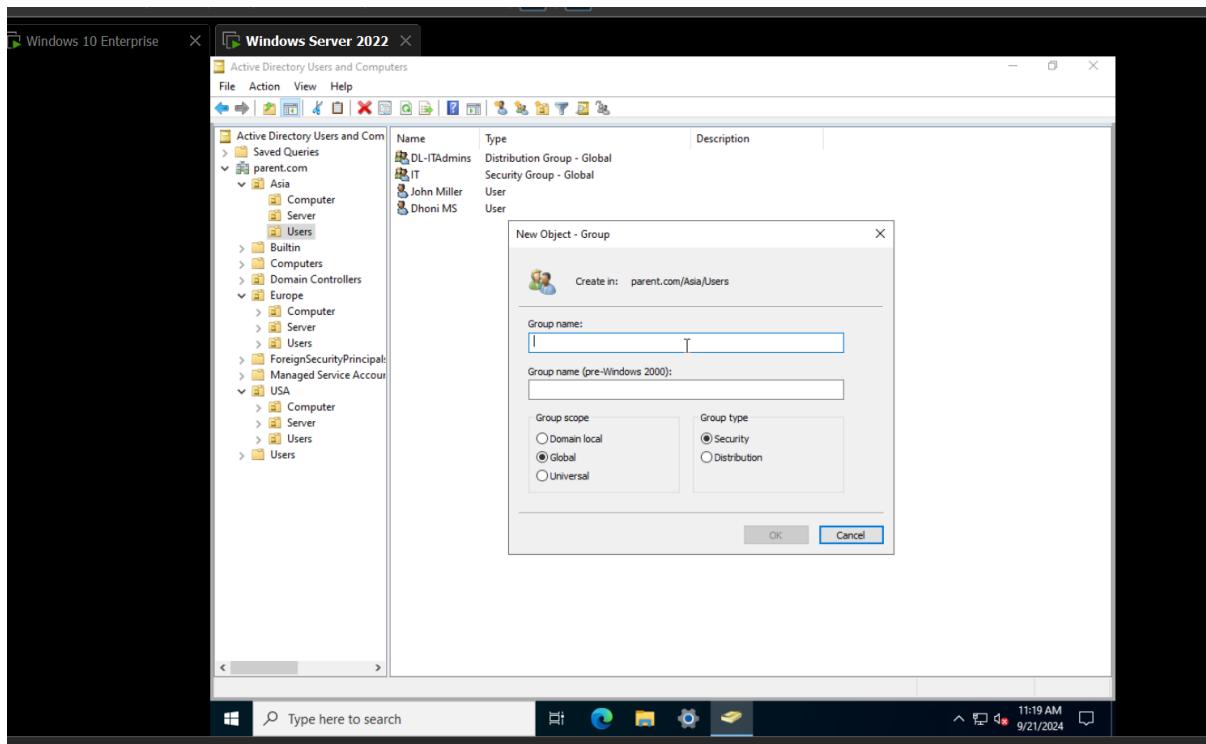


Scope	Possible members	Scope conversion	Can grant permissions	Possible member of
Universal	Accounts from any domain in the same forest Global groups from any domain in the same forest Other Universal groups from any domain in the same forest	Can be converted to Domain Local scope if the group isn't a member of any other Universal group Can be converted to Global scope if the group doesn't contain any other Universal group	On any domain in the same forest or trusting forests	Other Universal groups in the same forest Domain Local groups in the same forest or trusting forests Local groups on computers in the same forest or trusting forests
Global	Accounts from the same domain Other Global groups from the same domain	Can be converted to Universal scope if the group isn't a member of any other Global group	On any domain in the same forest, or trusting domains or forests	Universal groups from any domain in the same forest Other Global groups from the same domain Domain Local groups from any domain in the same forest, or from any trusting domain
Domain Local	Accounts from any domain or any trusted domain Global groups from any domain or any trusted domain Universal groups from any domain in the same forest Other Domain Local groups from the same domain Accounts, Global groups, and Universal groups from other forests and from external domains	Can be converted to Universal scope if the group doesn't contain any other Domain Local group	Within the same domain	Other Domain Local groups from the same domain Local groups on computers in the same domain, excluding built-in groups that have well-known security identifiers (SIDs)

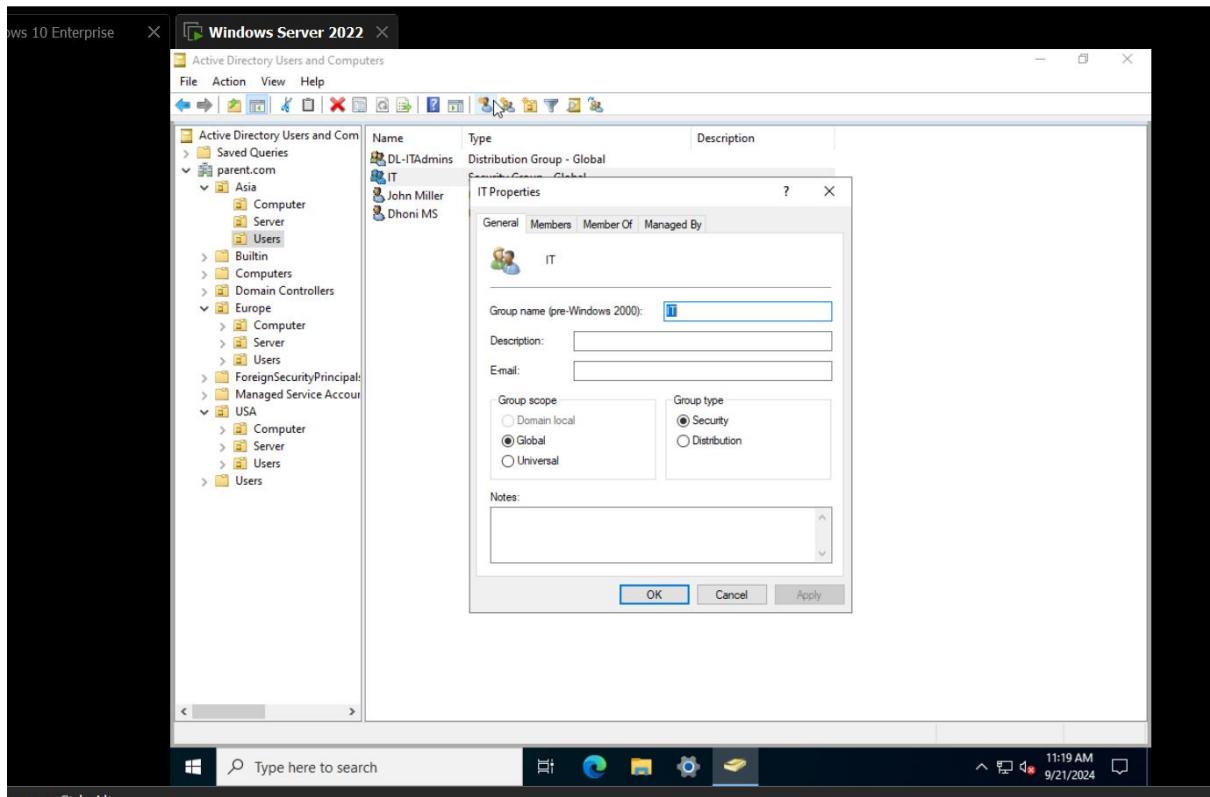
1. To create Group, go to Active directory User and Group, there we see domain name , right click on it select new , then select Group.



2. Enter the group name you want, then select “Group Scope” and “Group Type”.



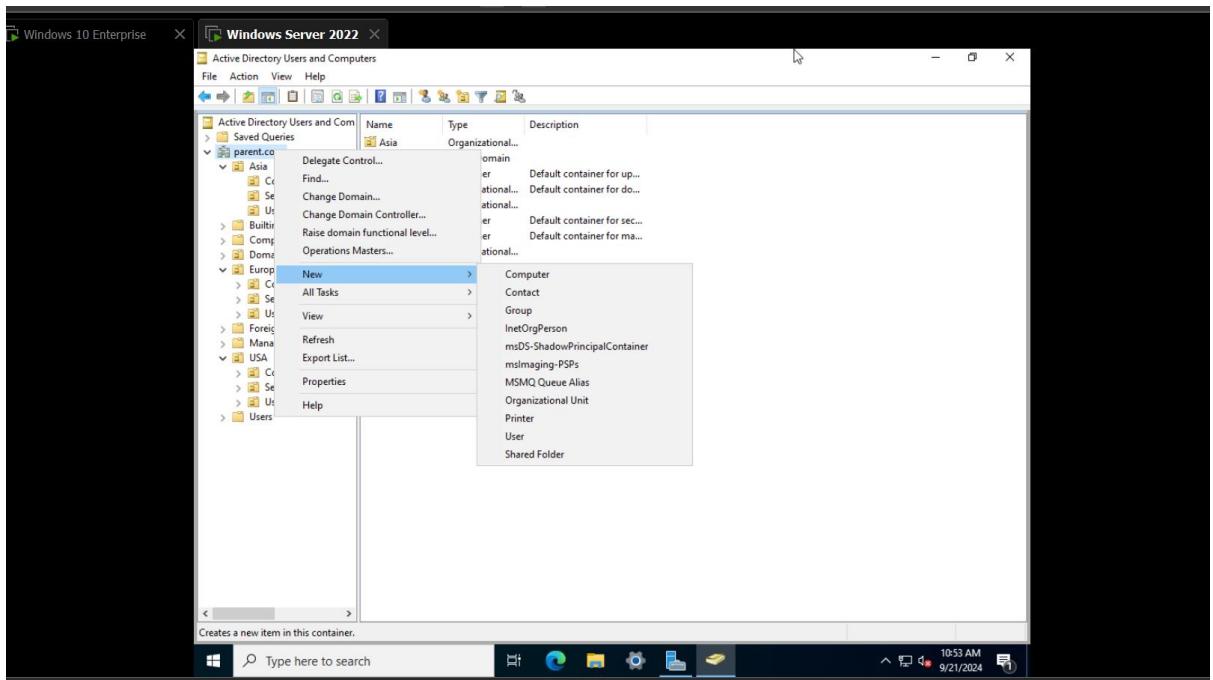
3. After that click ok.



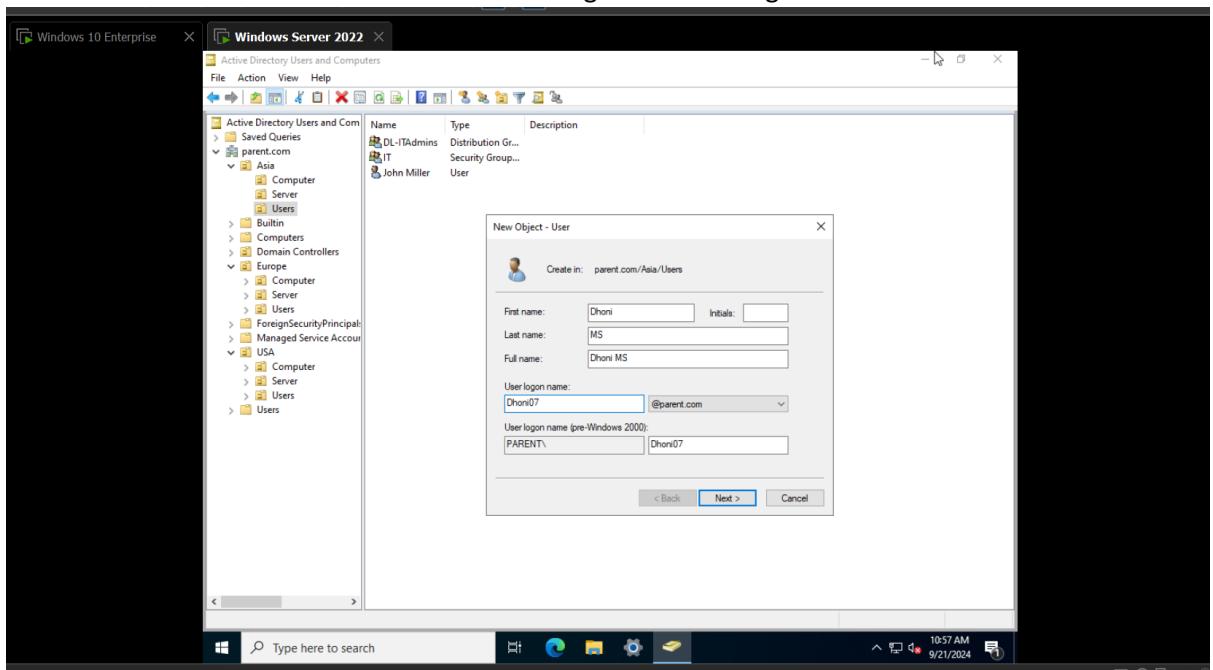
Hence, In this way we create Groups in Active Directory.

## Creating Users in Active Directory.

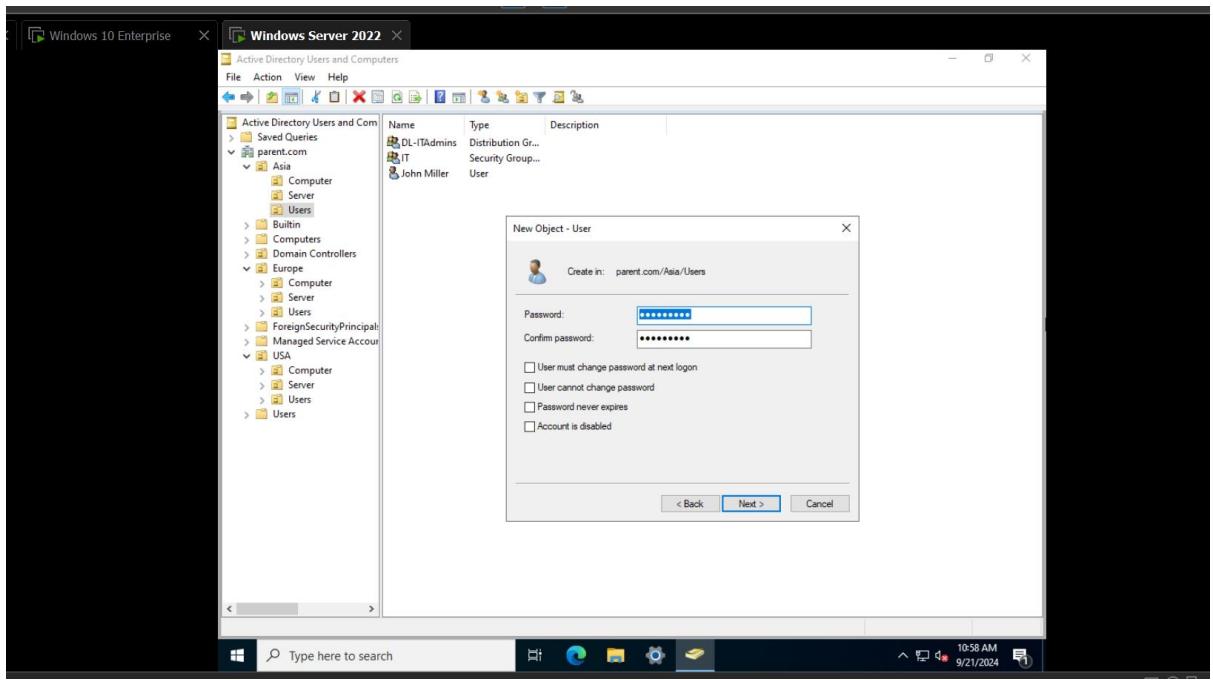
1. To create USER, go to Active directory User and Group, there we see domain name , right click on it select new , then select User.



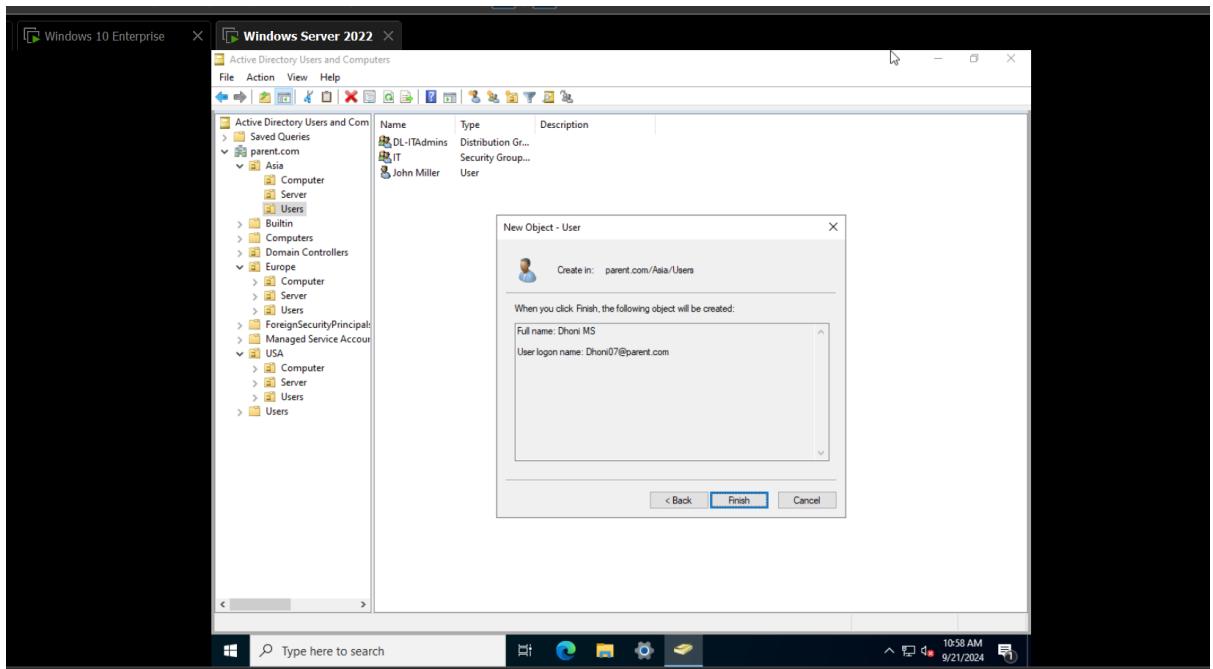
2. Enter the User first and last name. Then give the user logon name.



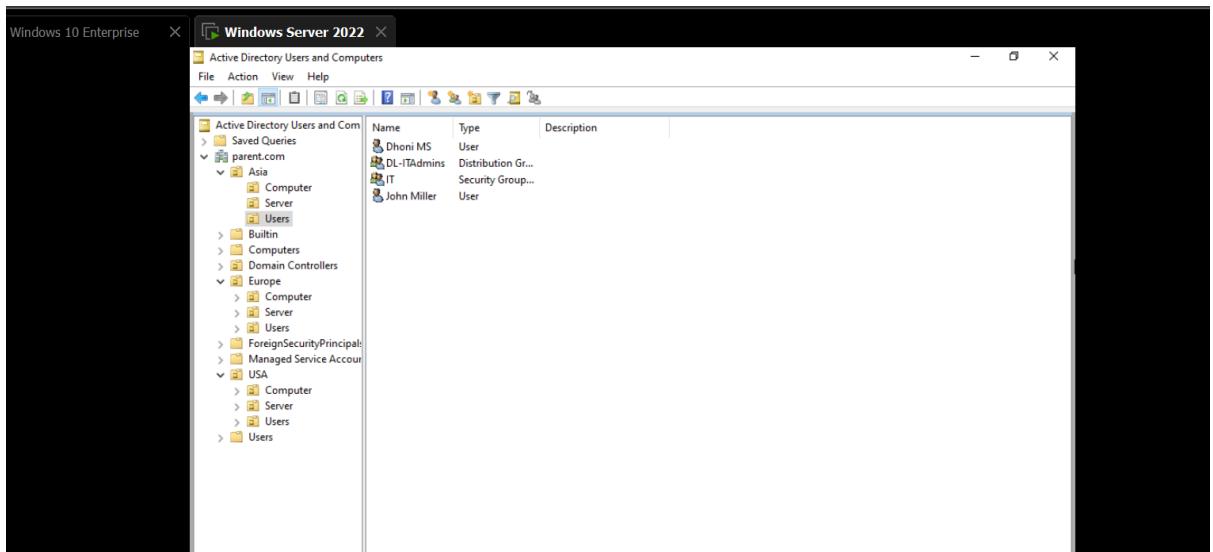
3. Set Password for the User.



4. Then Click finish



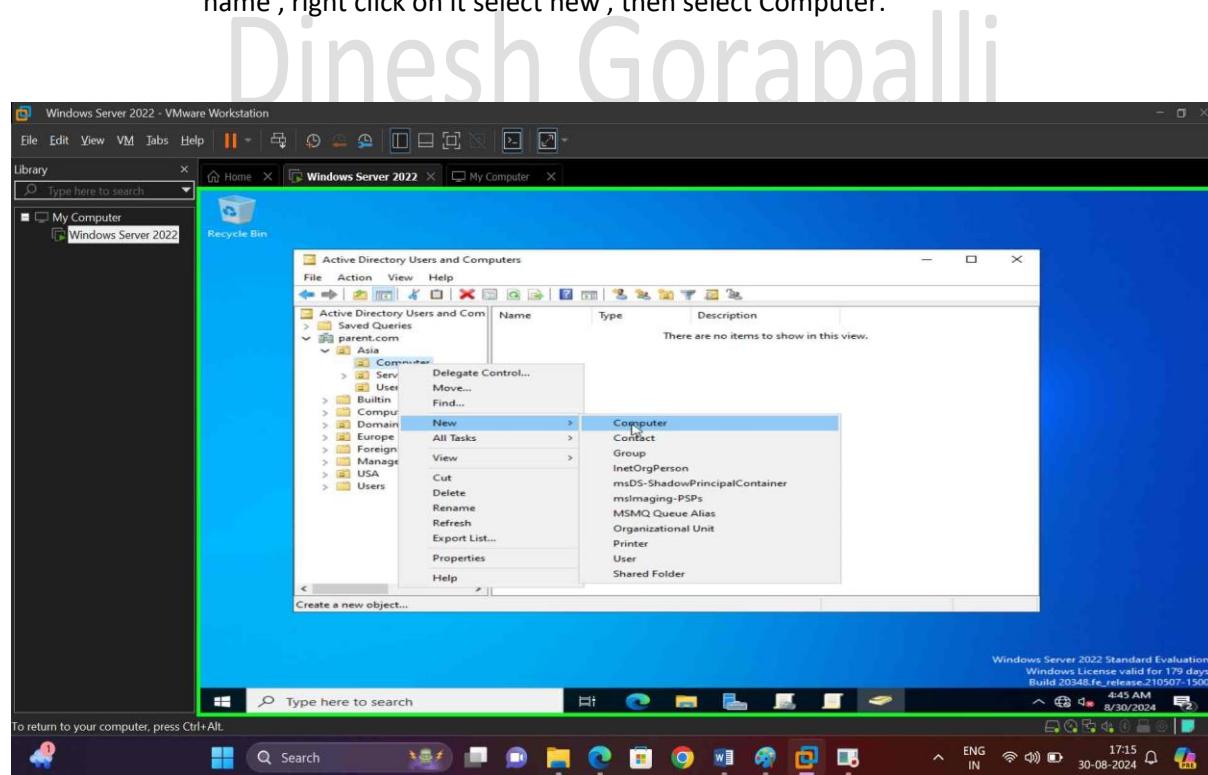
5. Now you can see the user.



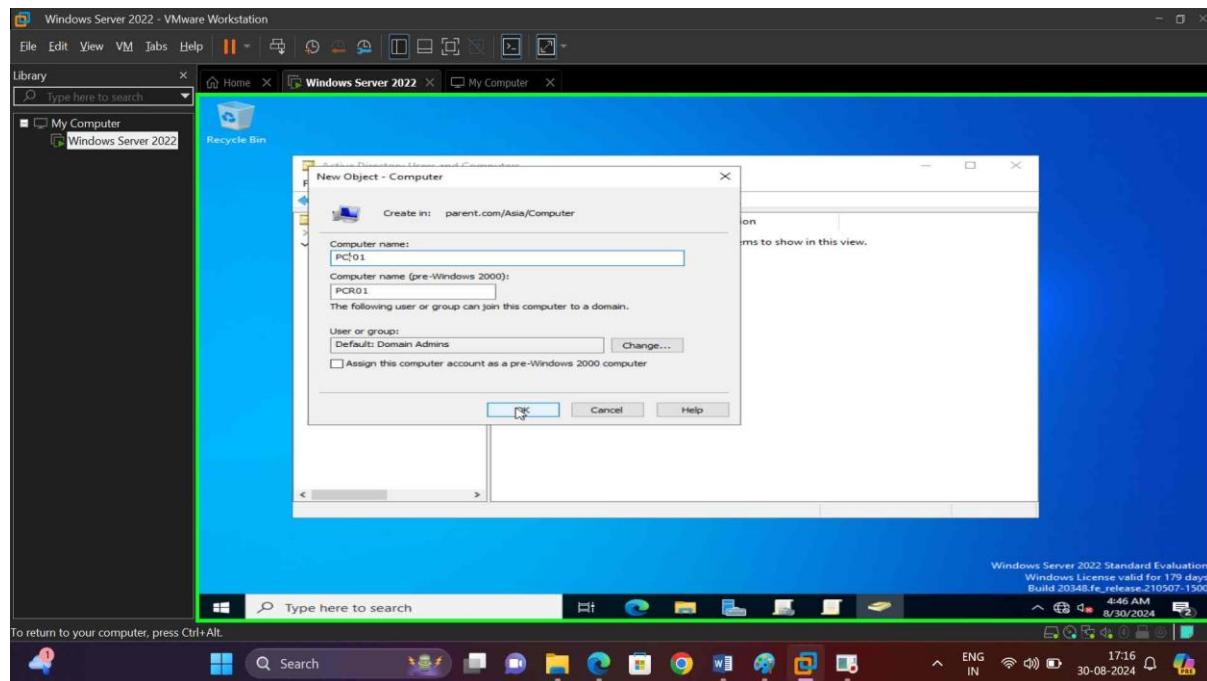
Hence, in this way we create user in active directory.

## Creating Computer in Active Directory

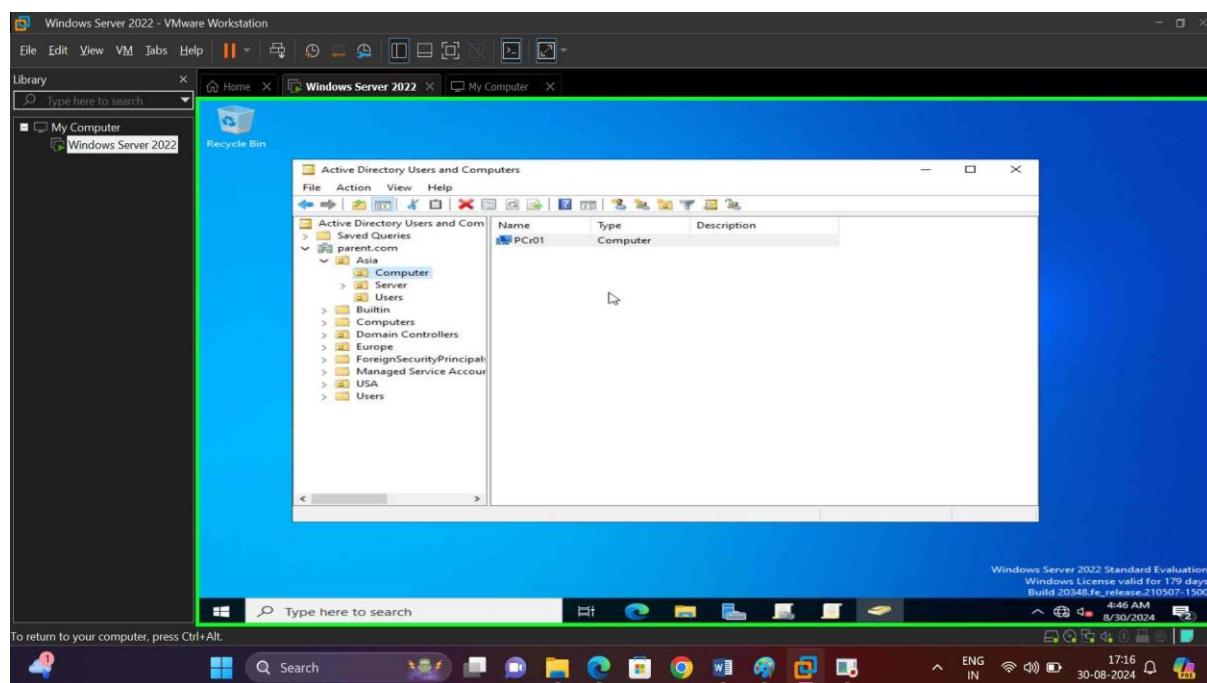
1. To create Computer, go to Active directory User and Group, there we see domain name , right click on it select new , then select Computer.



2. Give any name to Computer you want to give then click ok.



3. We can see the computer.



Hence, In this way we create Computer in active directory.

## Setting up Group Policy Objects (GPOs) in a home lab

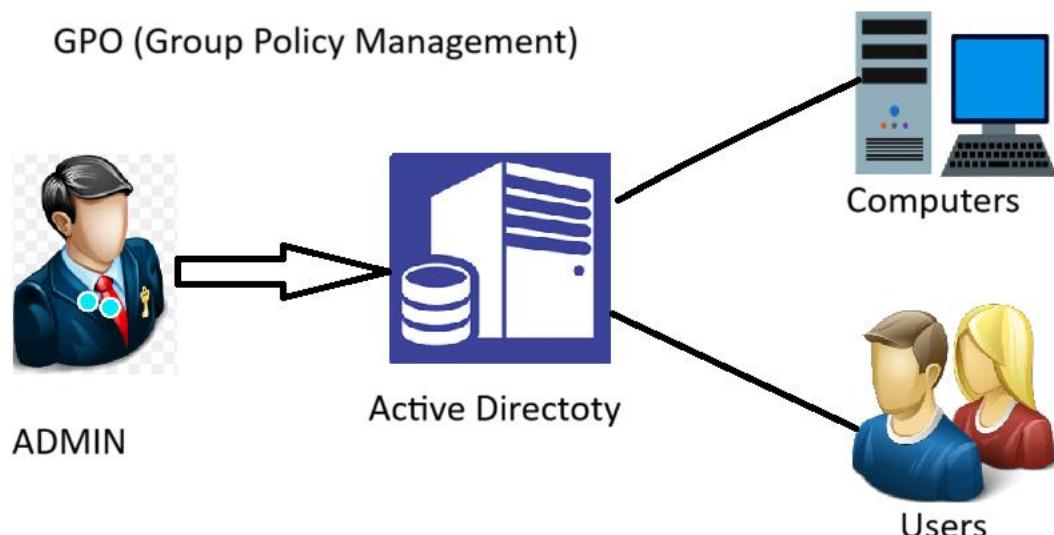
### Prerequisites

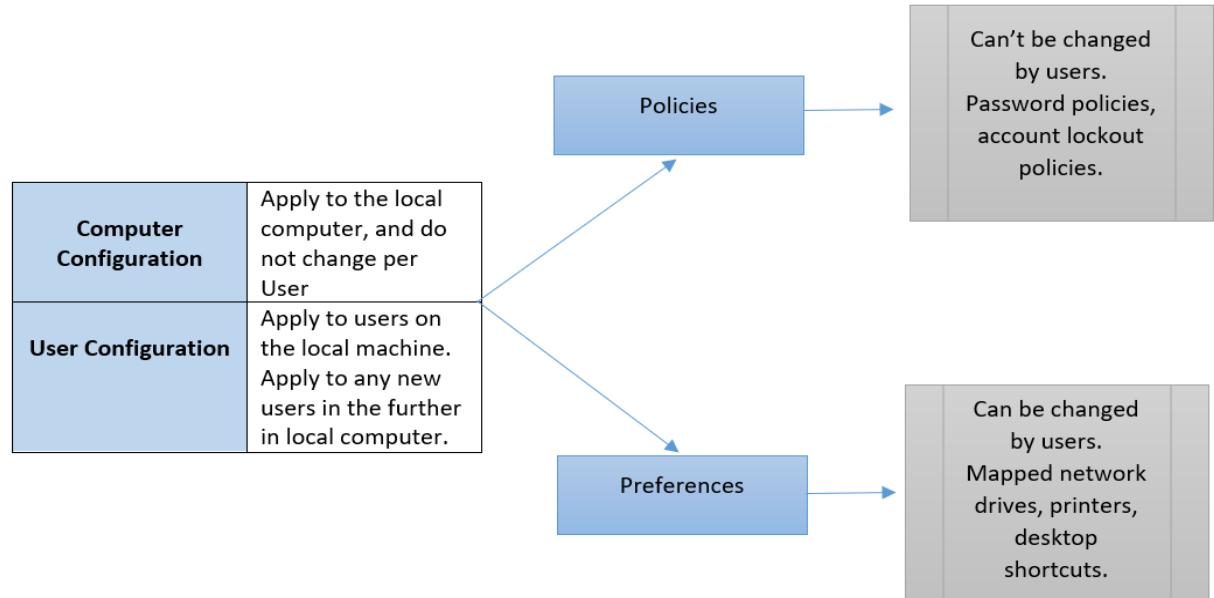
1. Windows server Installation: Install Windows server on a virtual machine or physical machine.
2. Active Directory Domain Services (AD DS): Install and configure AD DS to create a domain.
3. Group Policy Management Console (GPMC) : Install GPMC on your windows server to manage GPOs.

## Group Policy Object (GPO)

It is Collection of policies and active directory that can be applied to domains and OUs.

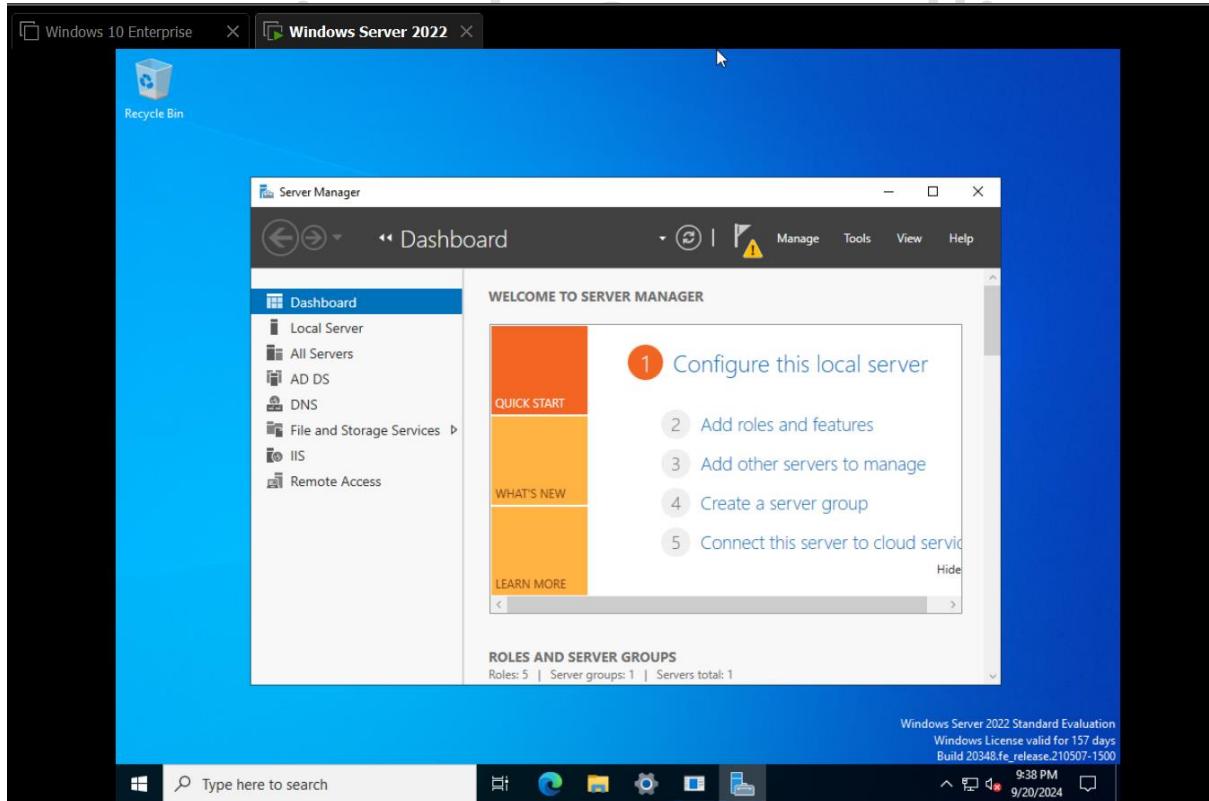
It was used by admin to manage the settings that are applied in users and computers.



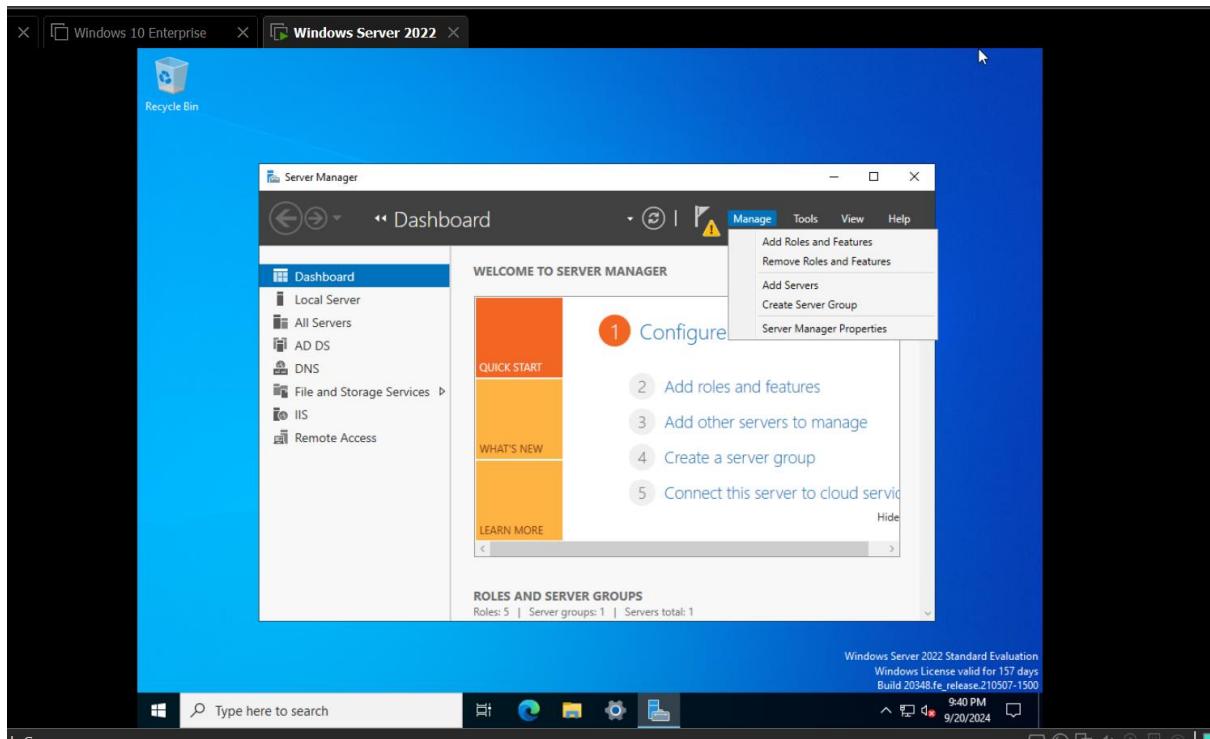


## Installing GPMC

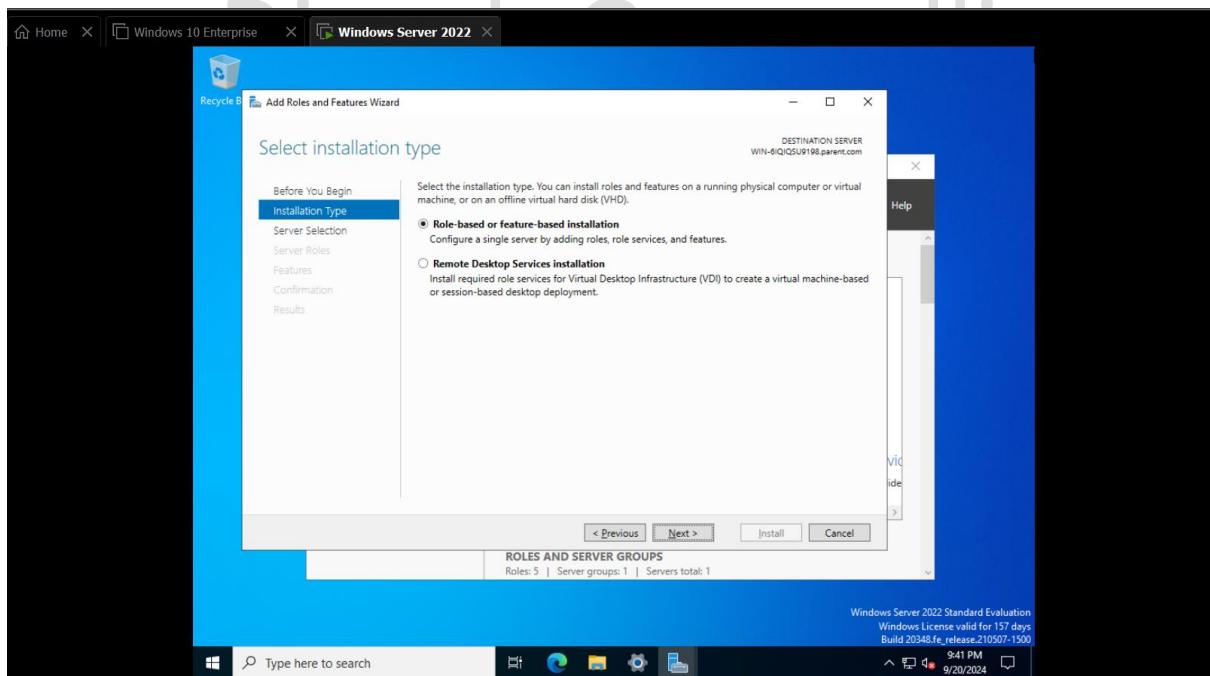
1. Open Windows server, then search for “Server manager”



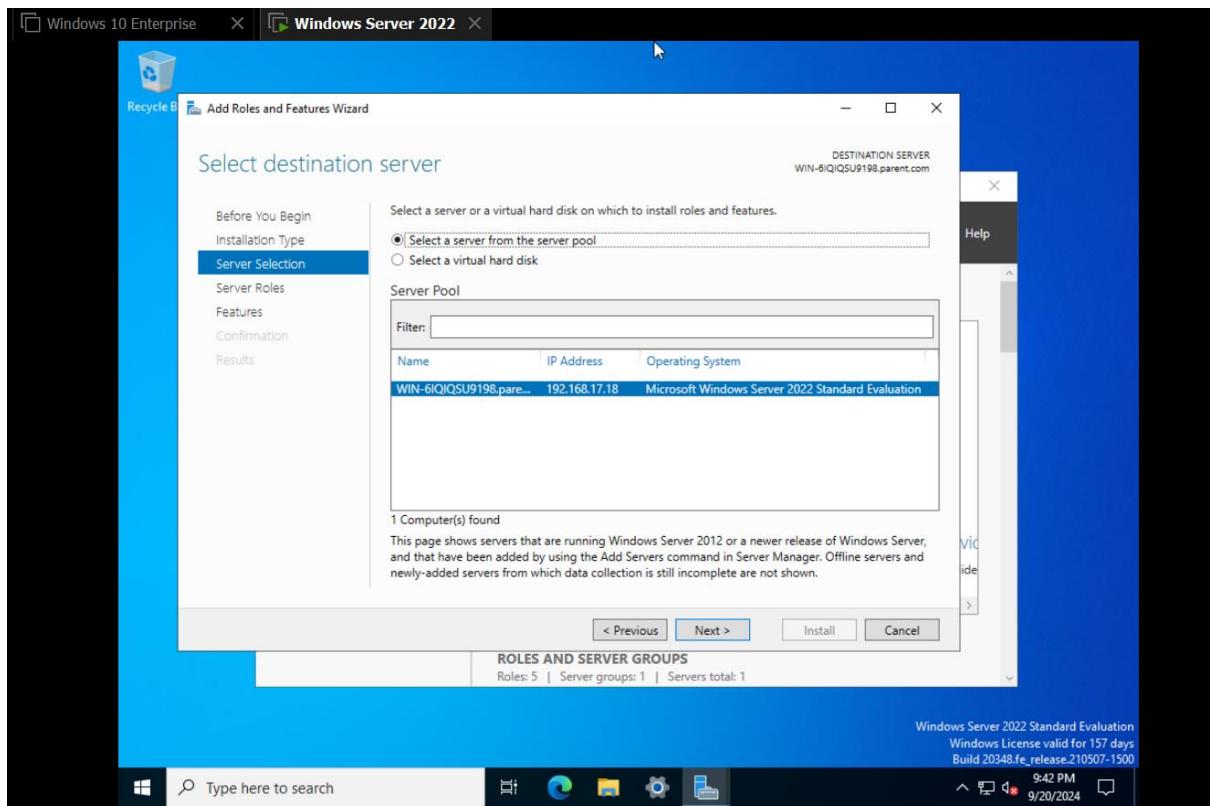
2. Click the manage, then select Add Role and Features.



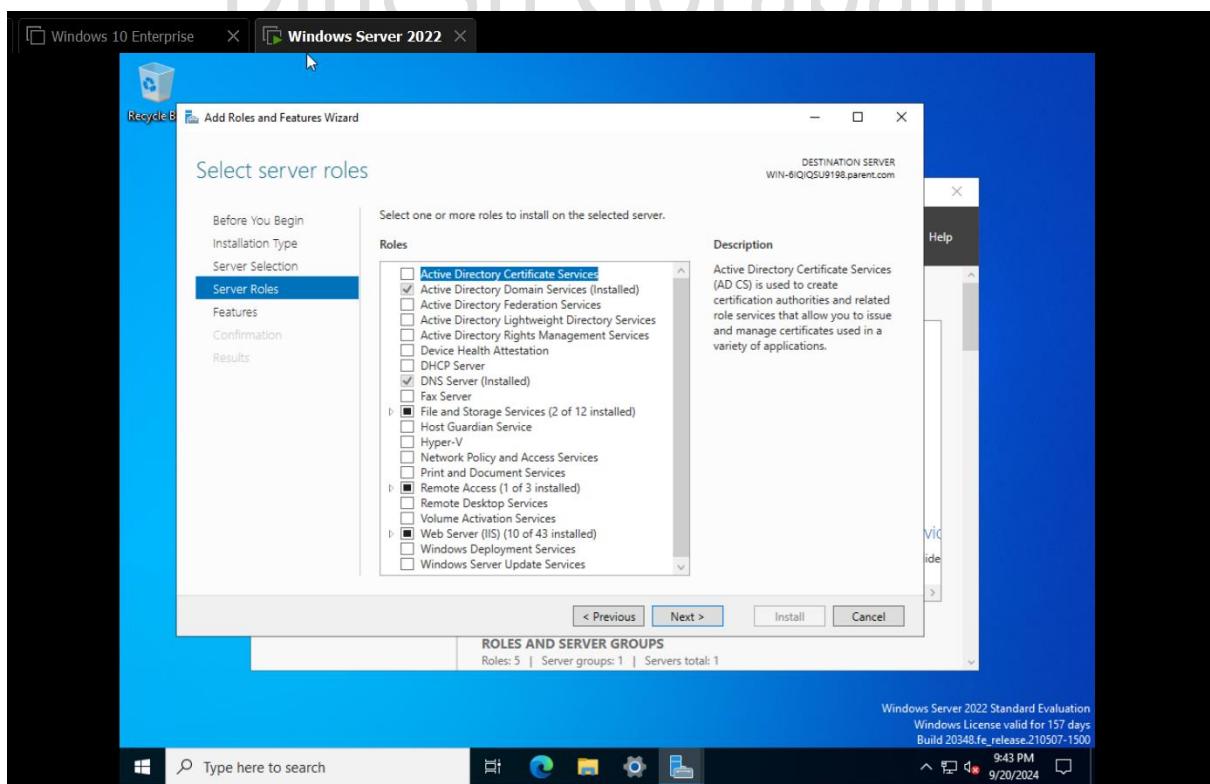
3. Then the select type “Role-based or feature-based installation”.



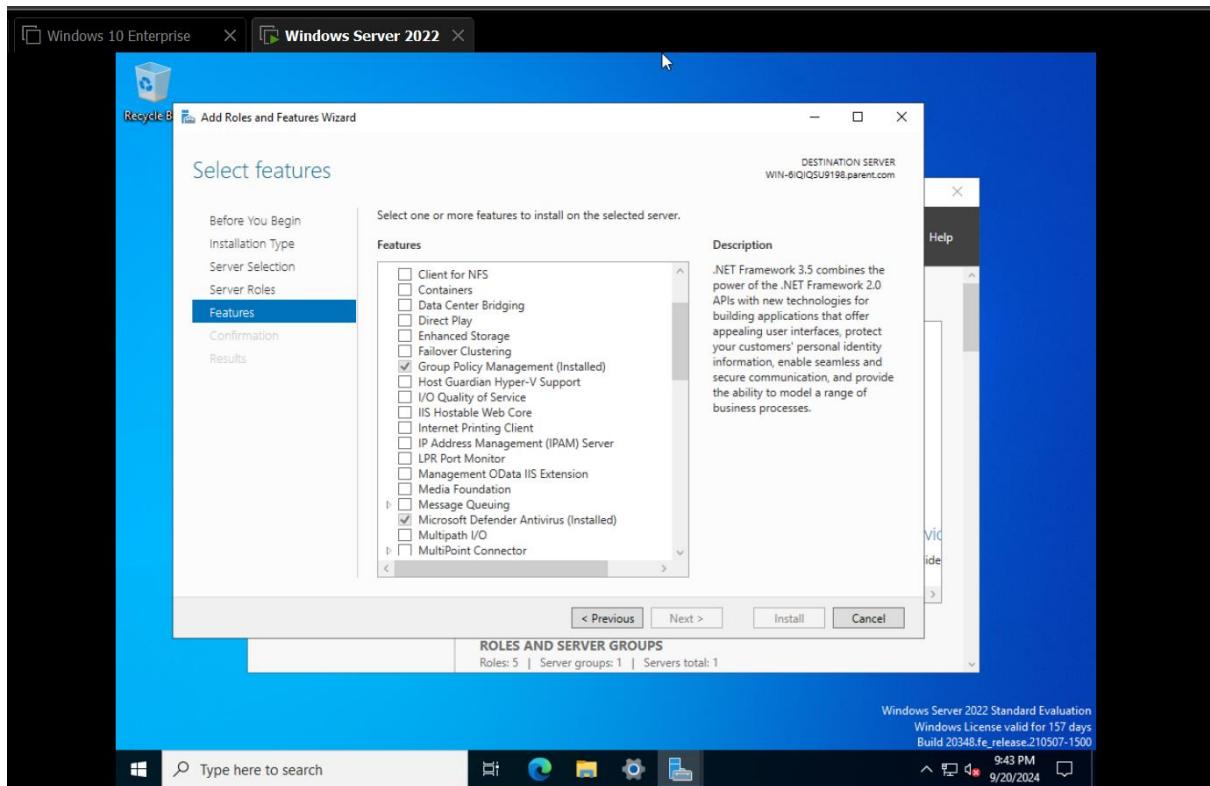
4. Select destination server, click Next.



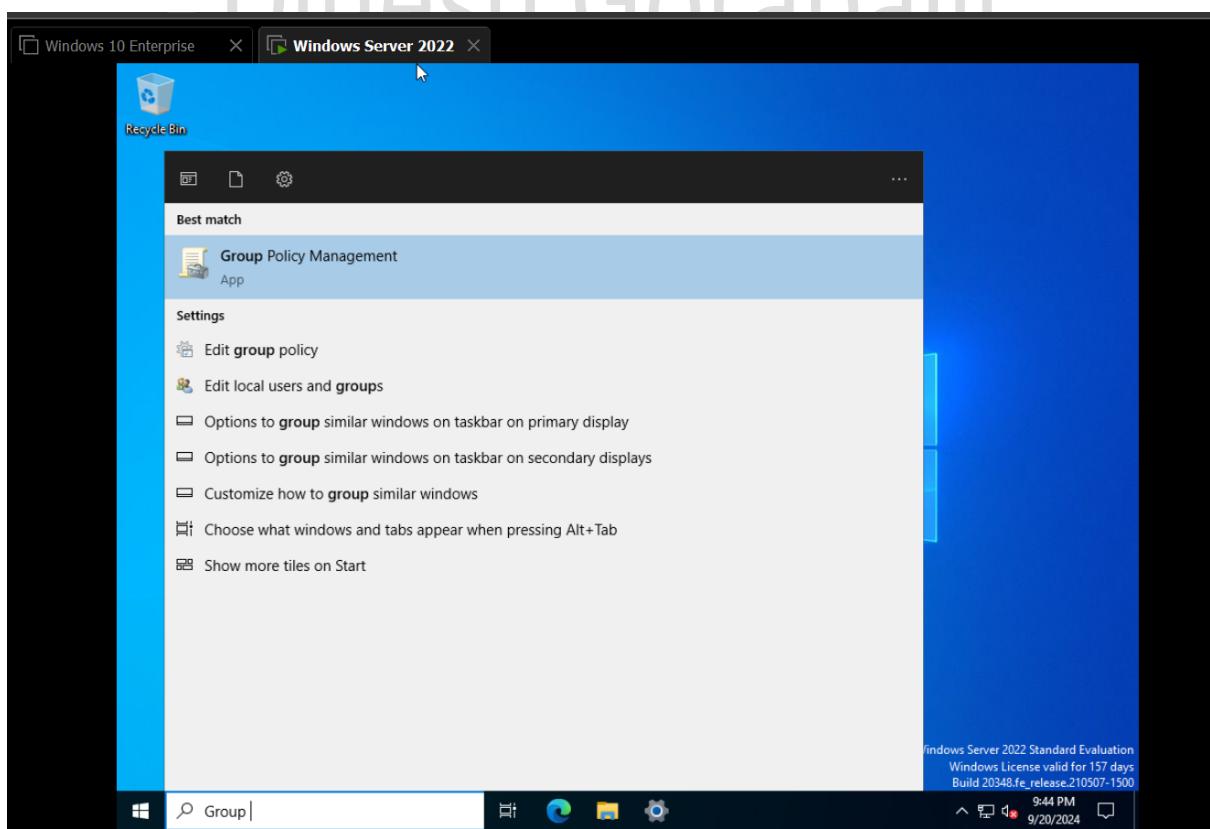
5. In the select server roles, then click next.



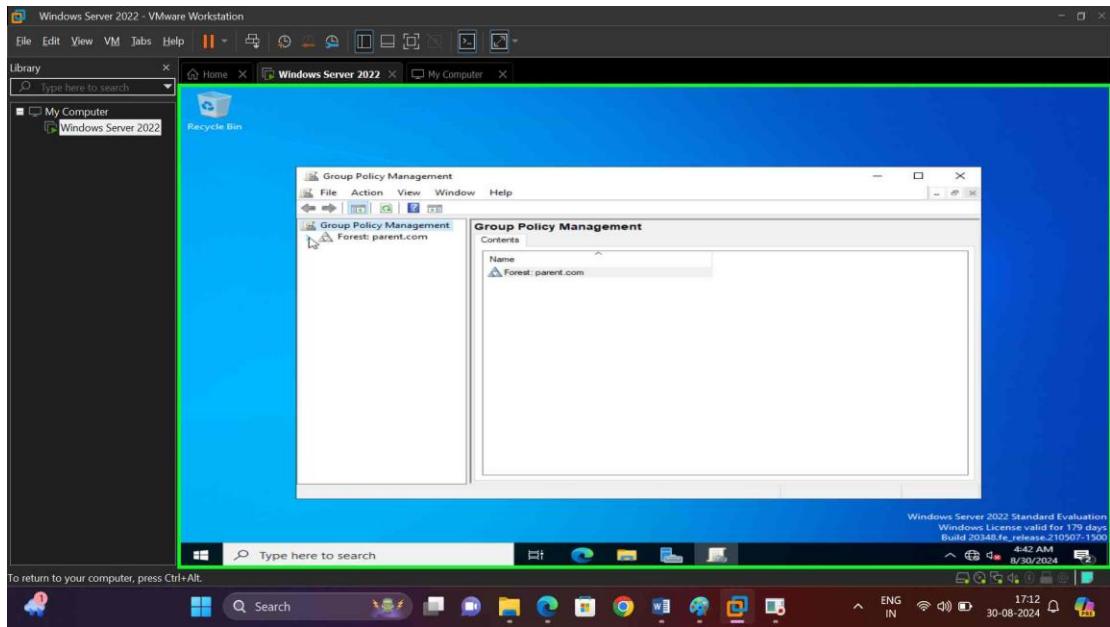
6. In feature, we can see “Group Policy Management (Installed)”. Select and install it.



7. Once installation done, search GPMC. Then we see open it.

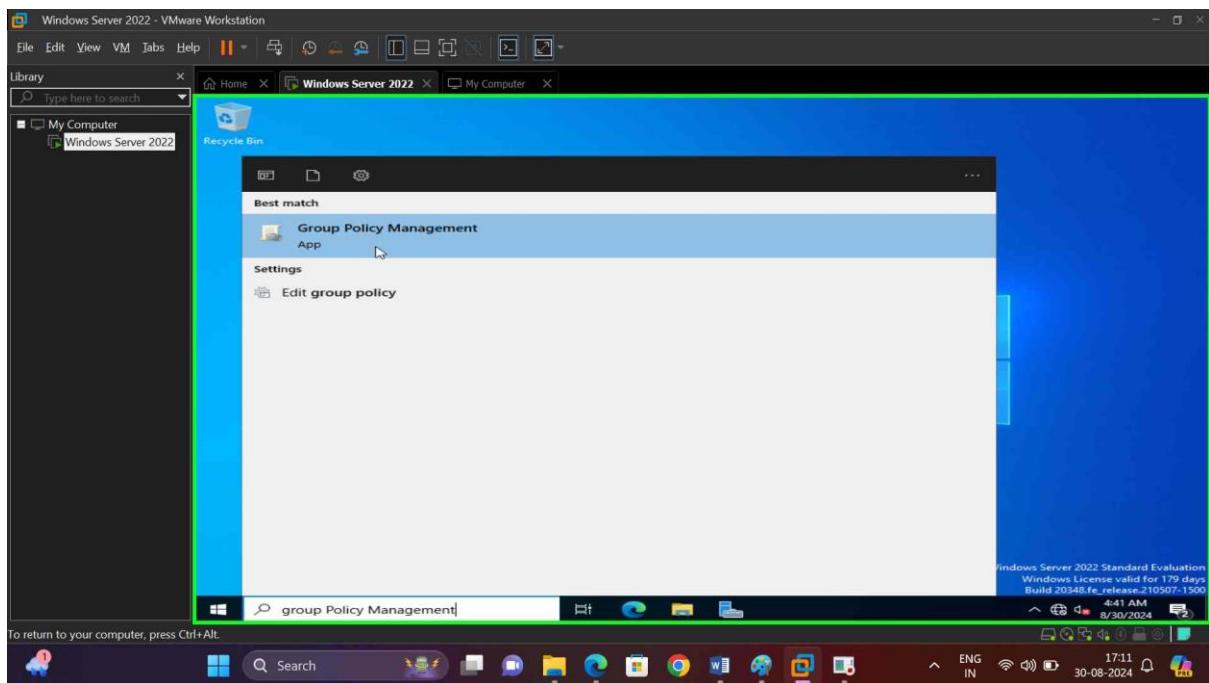


8. We Can see this, forest domain name.

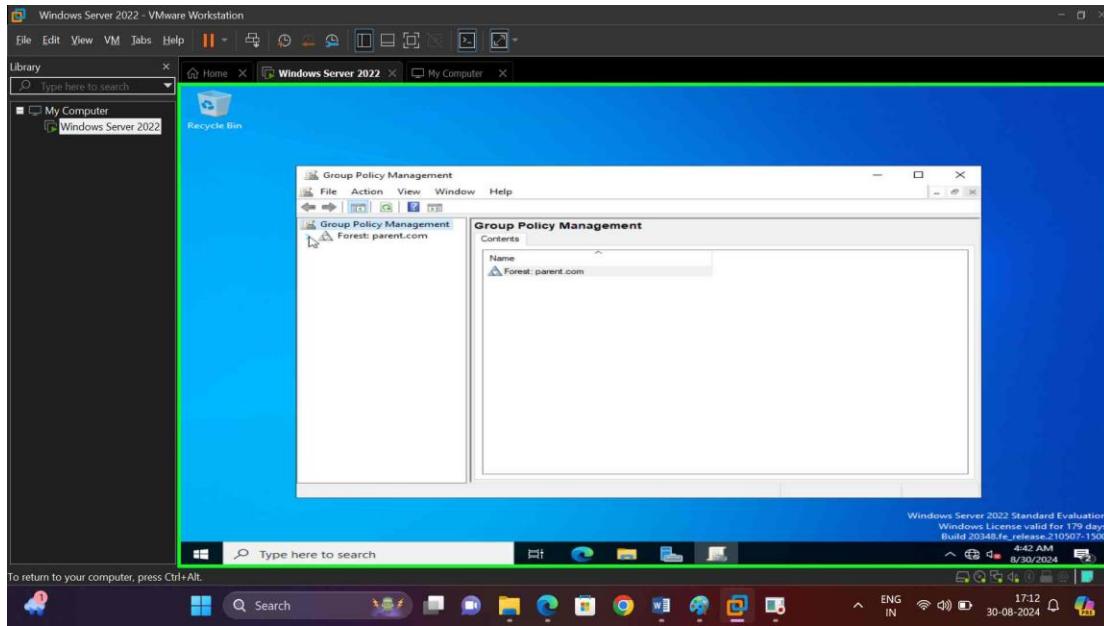


## Creating GPO

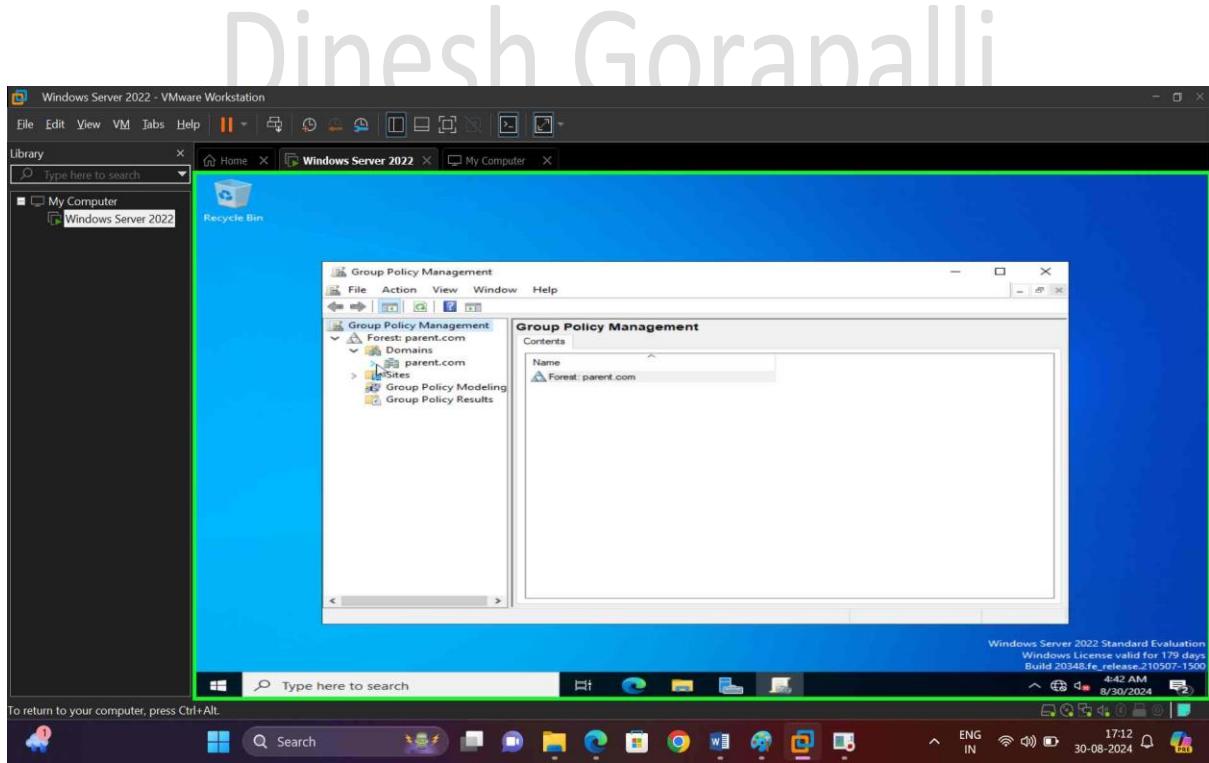
### 1. Open Group Policy Management (GPMC).



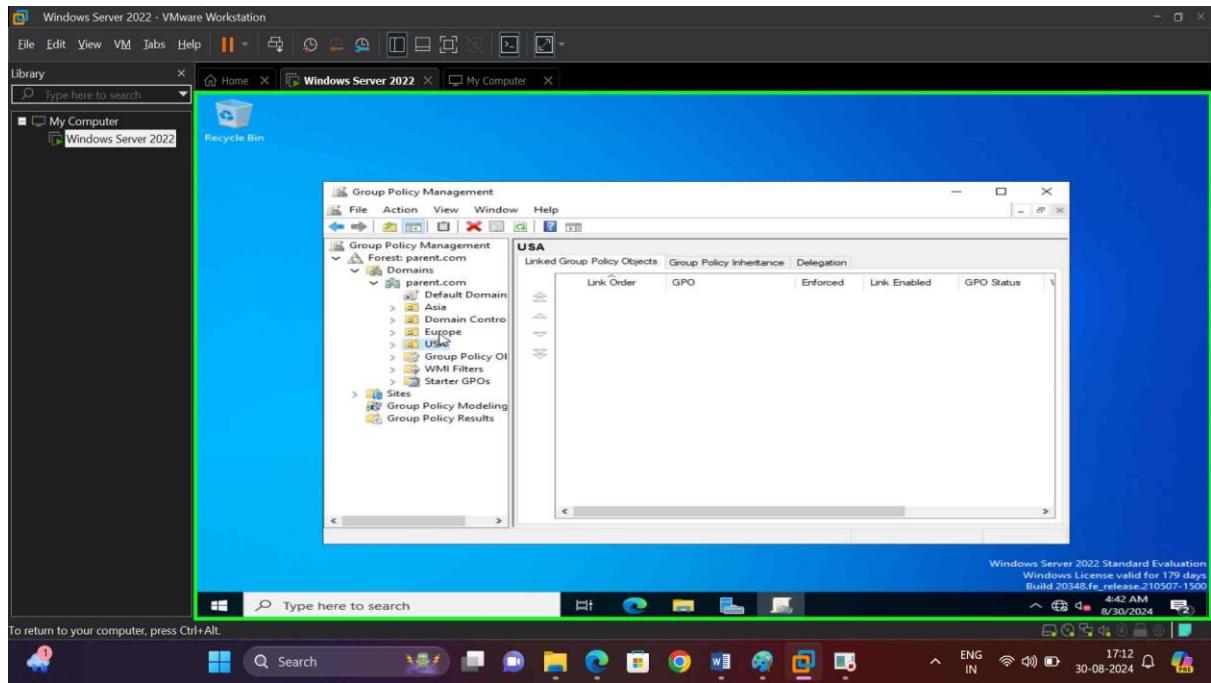
2. Here You see, forest elaborate it.



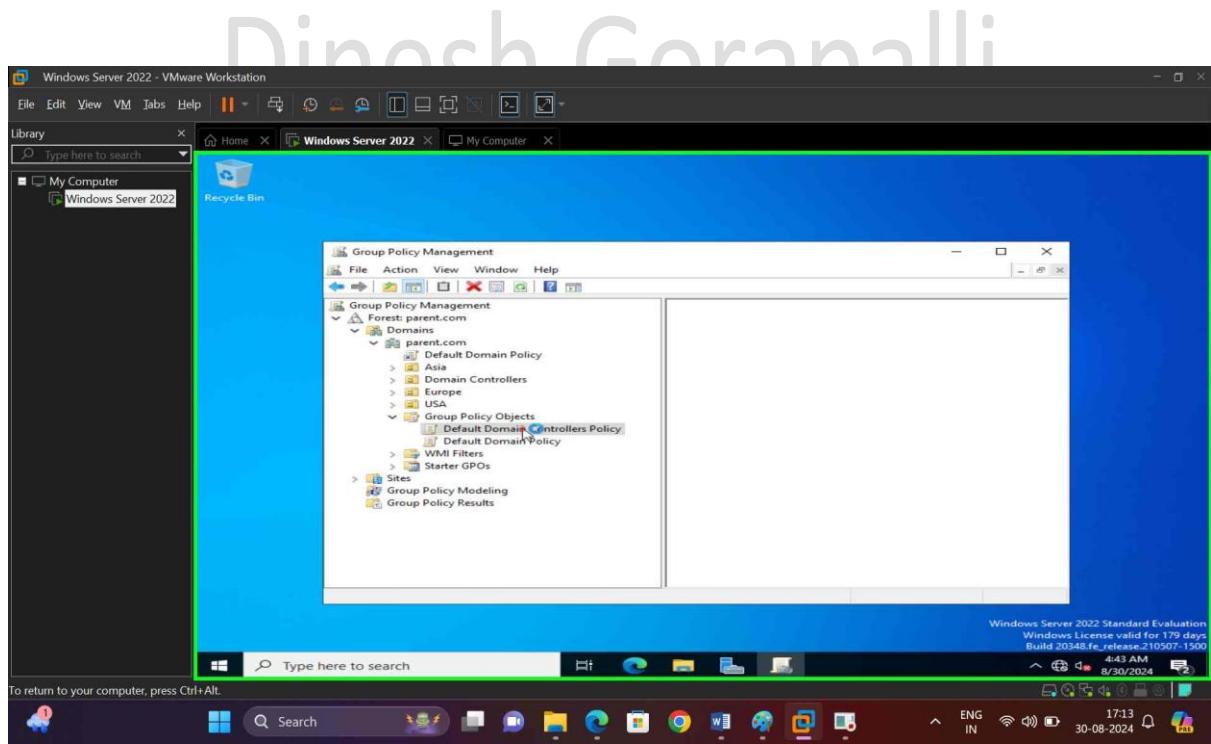
3. Where you can see your domain under the forest



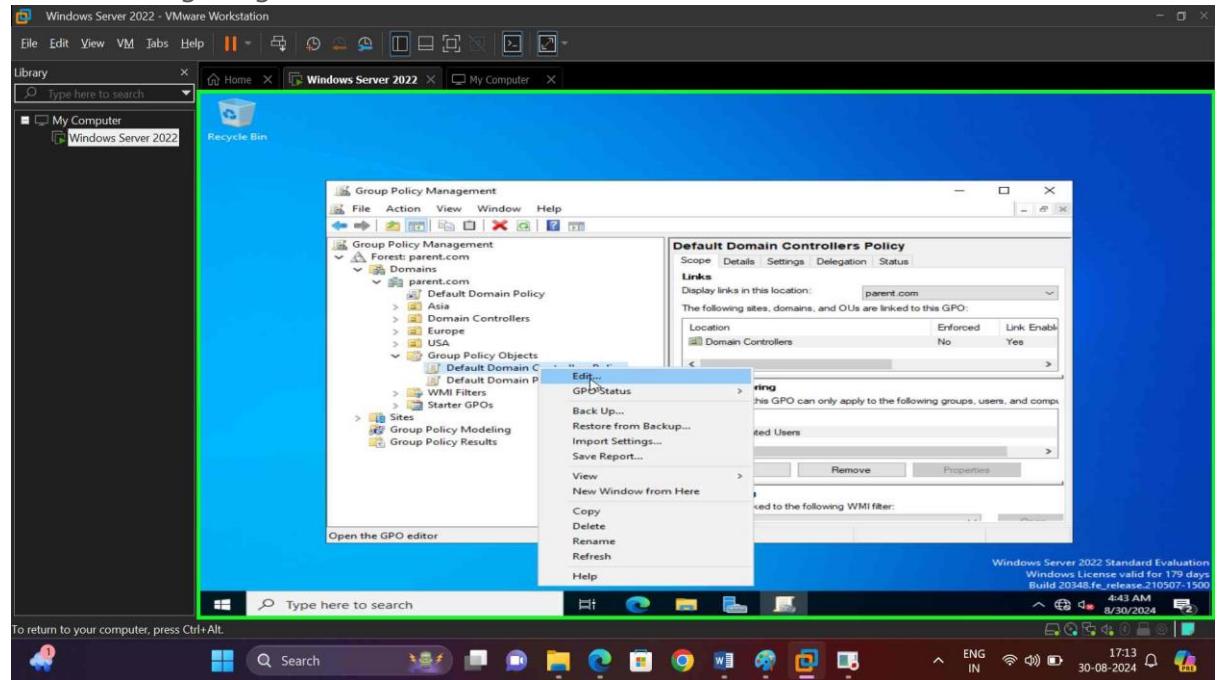
4. Expand that, you can ADDC OU's that you have created.



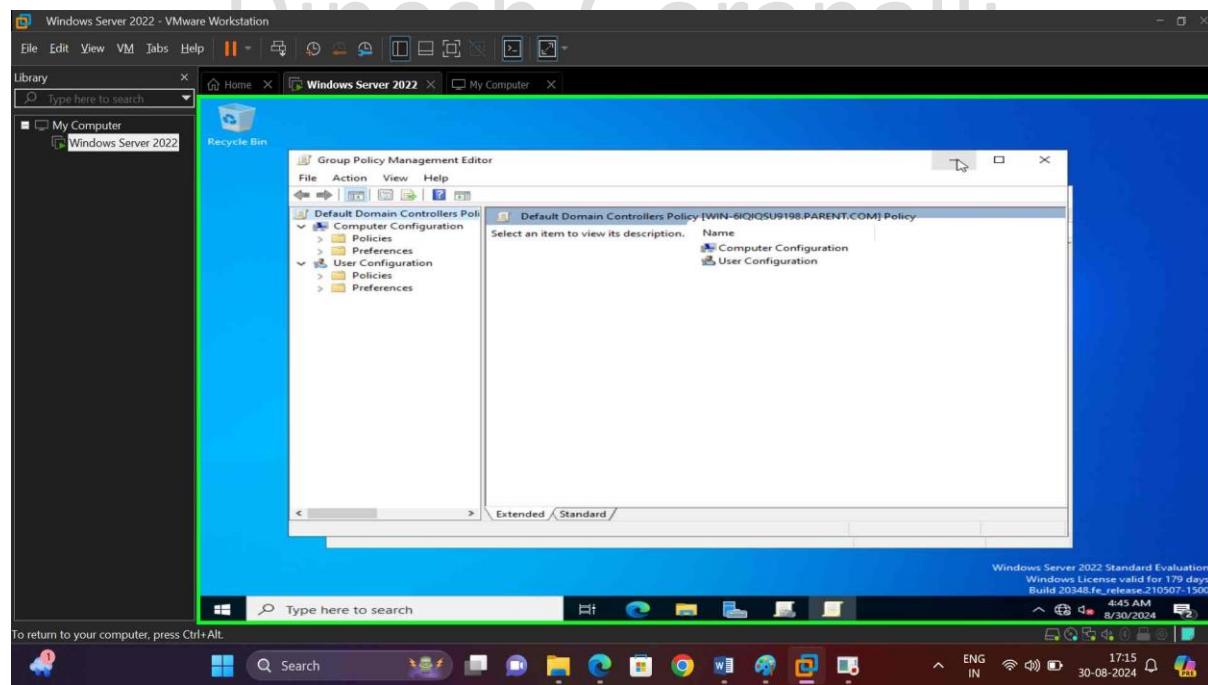
5. There we can Group policy objects, expand we can “default domain controllers’ policy” click on it.



6. After selecting it, right click on it, we can edit.



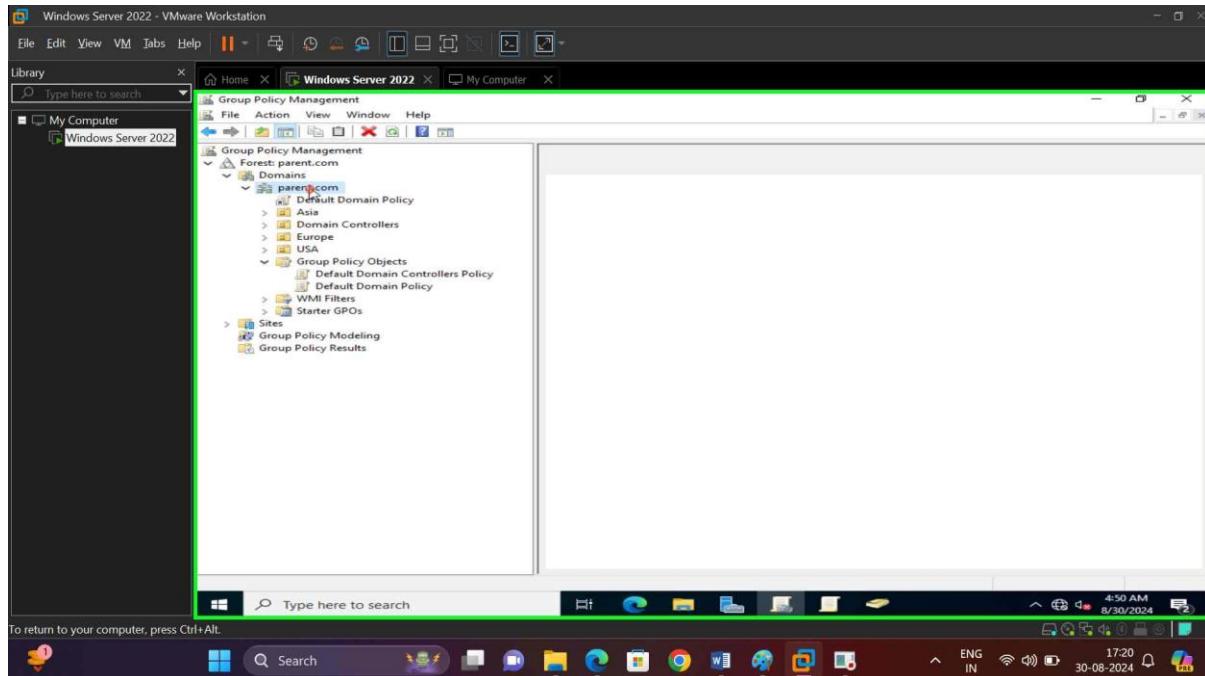
7. When you click on it you can see group policy management editor, These where we create different policies for our domain.



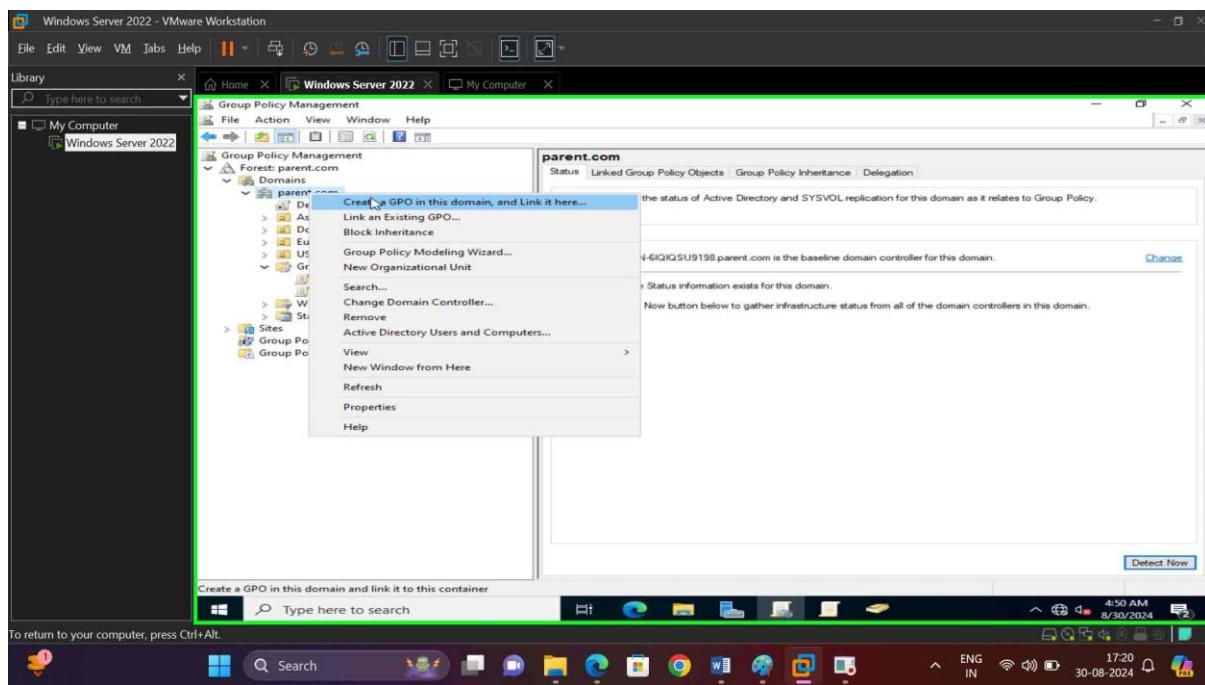
## Group Policy 1: Password Policy.

Set a password policy to enforce strong passwords and enhance security.

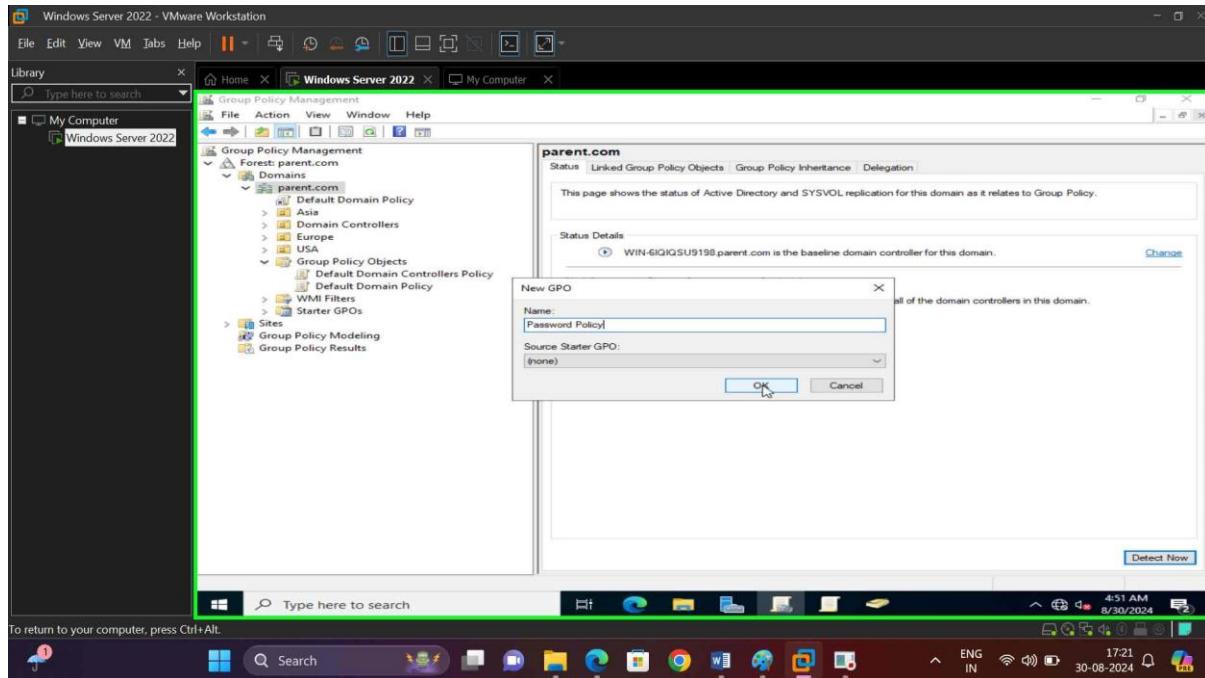
1. Go to GPMC, right on domain name here we can see parent.com.



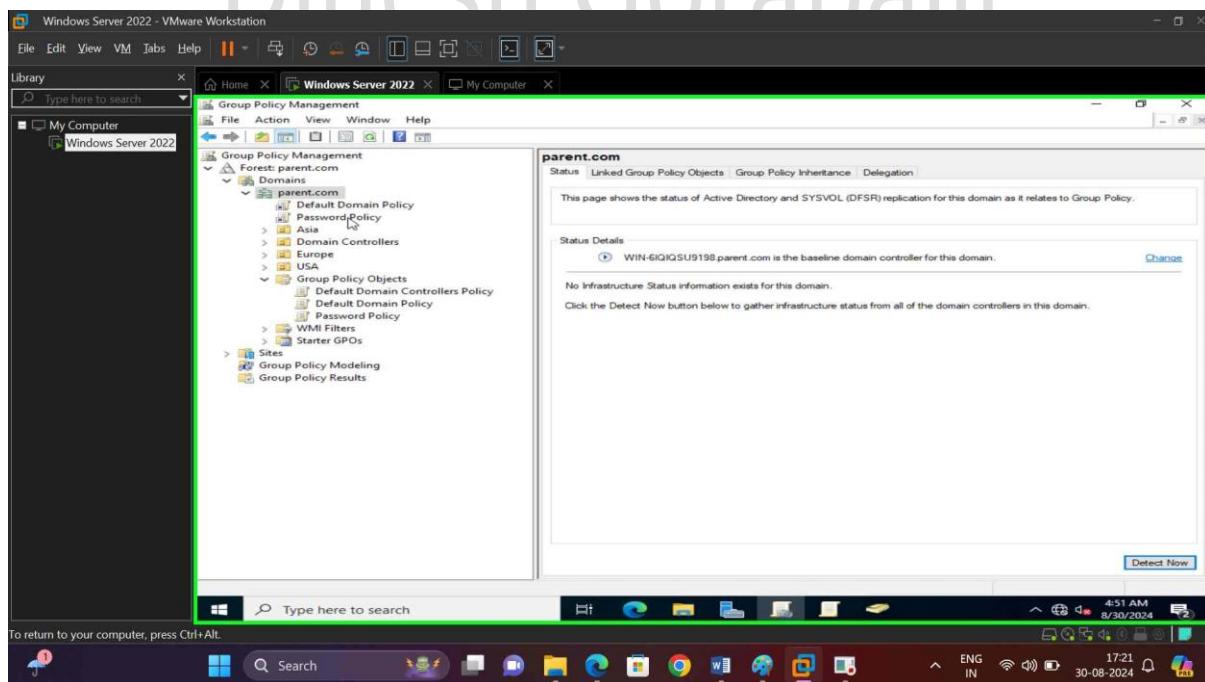
2. Select the “Create a GPO in this domain, and Link it here”.



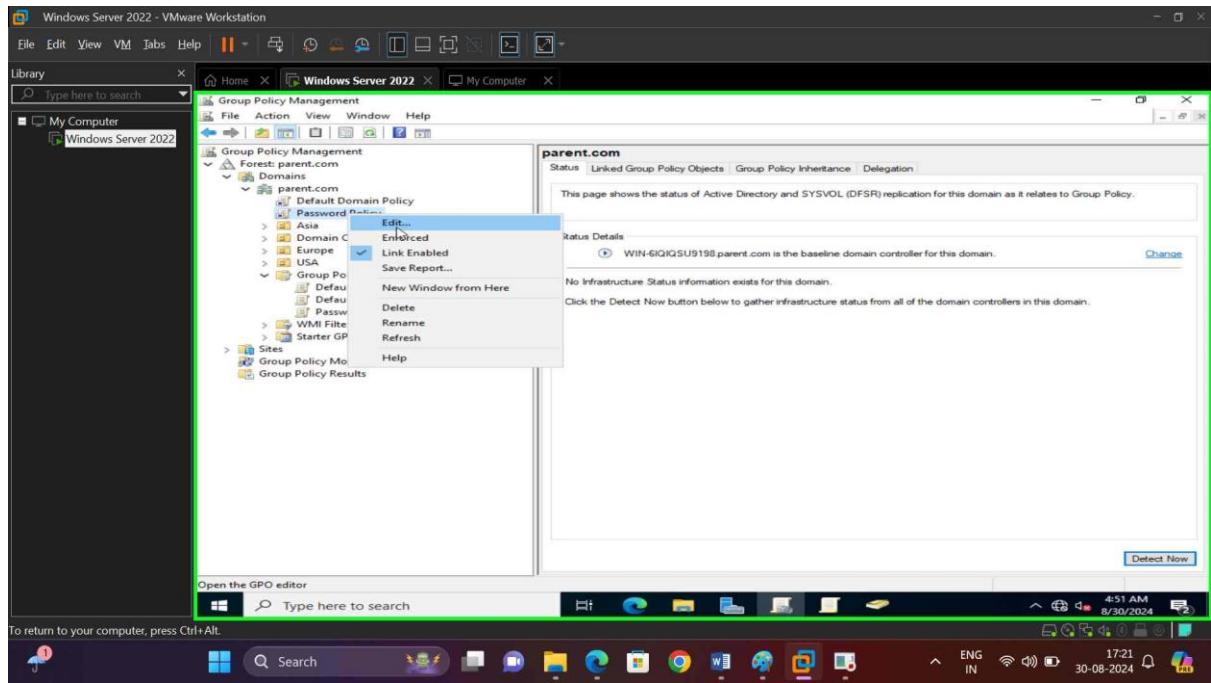
3. We have to give policy name. I am giving this policy name as “Password Policy”. Click Ok .



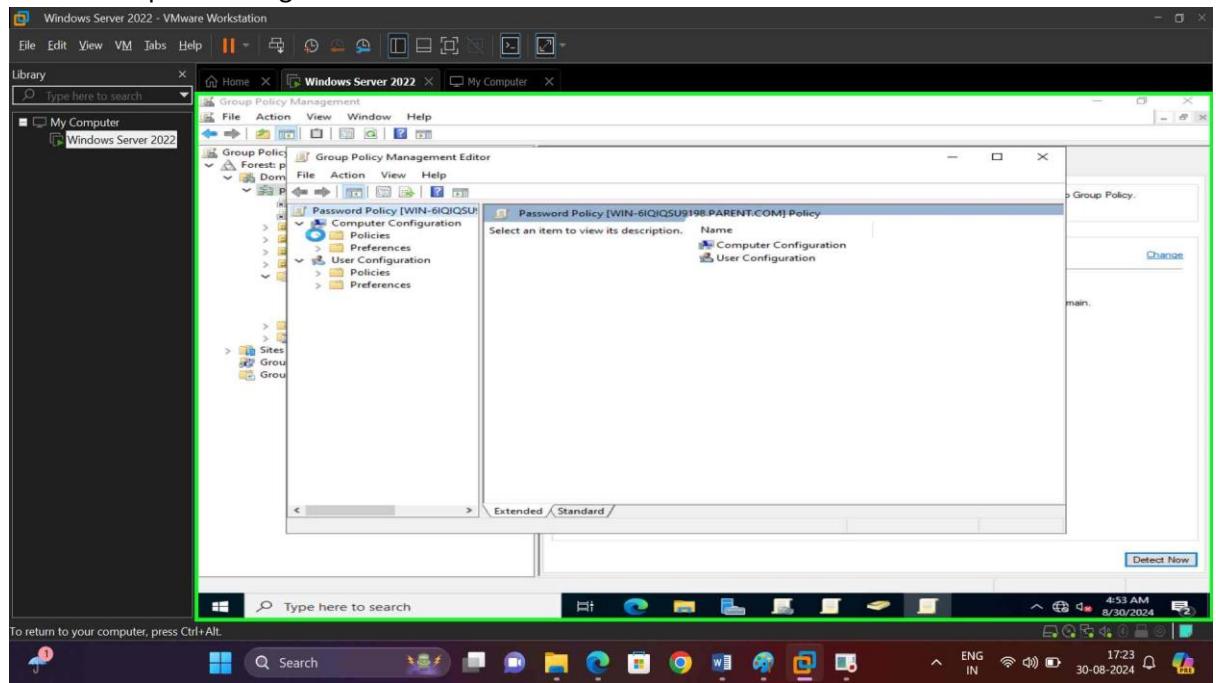
4. We can see that policy was created.



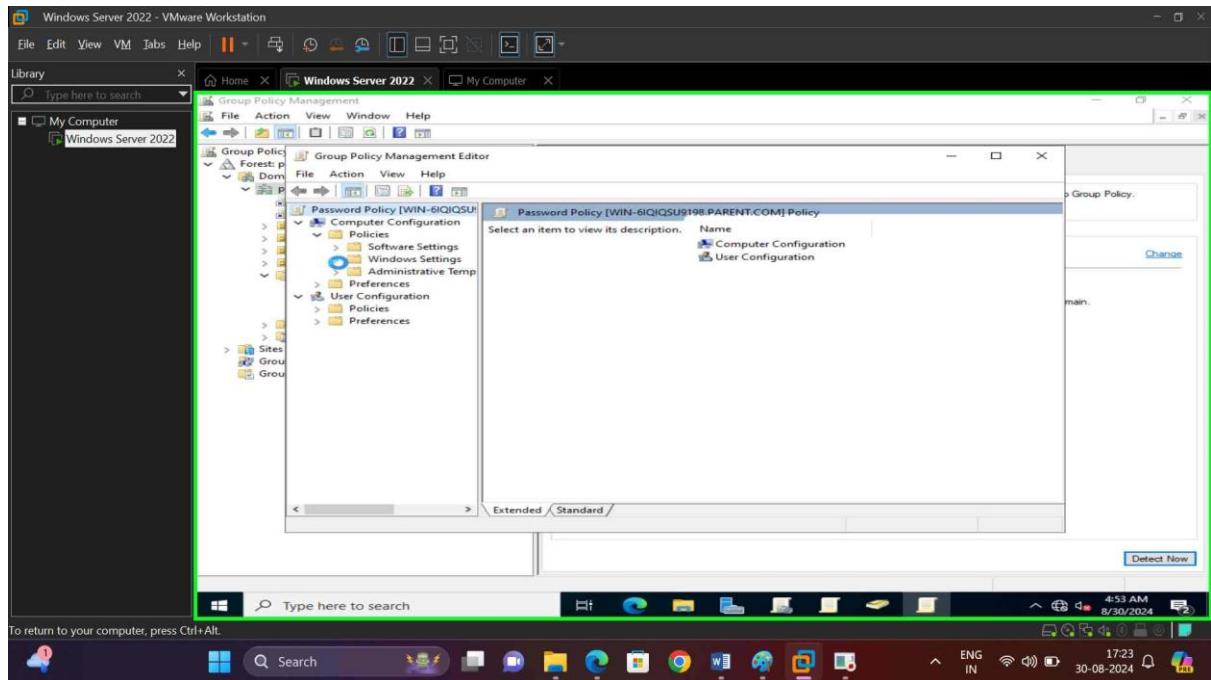
5. Select on it, right click select the edit.



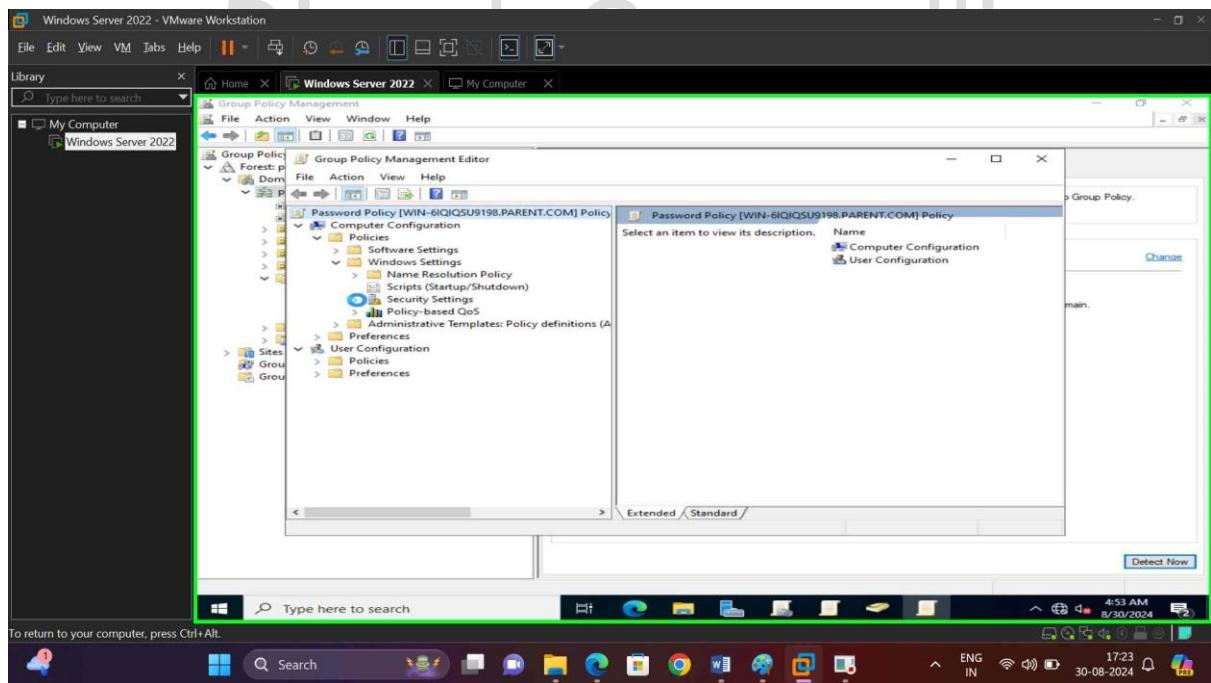
- Now we can see, group policy management editor. In these case, we need to add this policy in the “computer configuration”



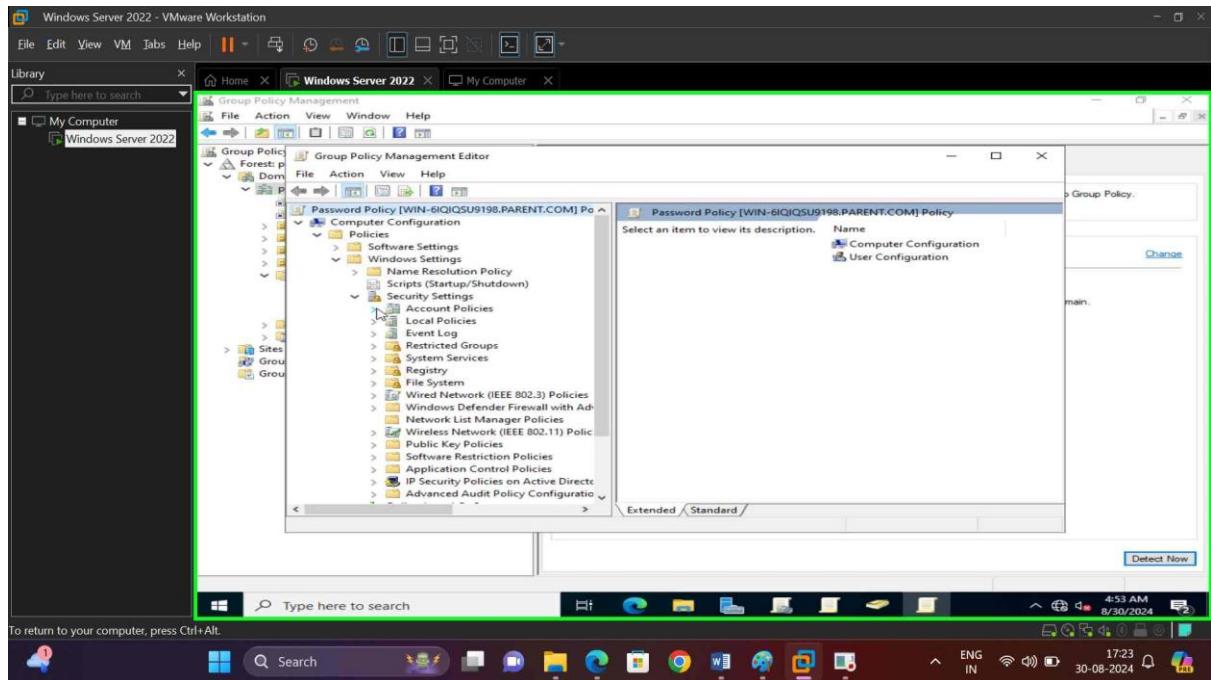
- we need to add this policy in the “computer configuration” select “policties” then select “Window setting”



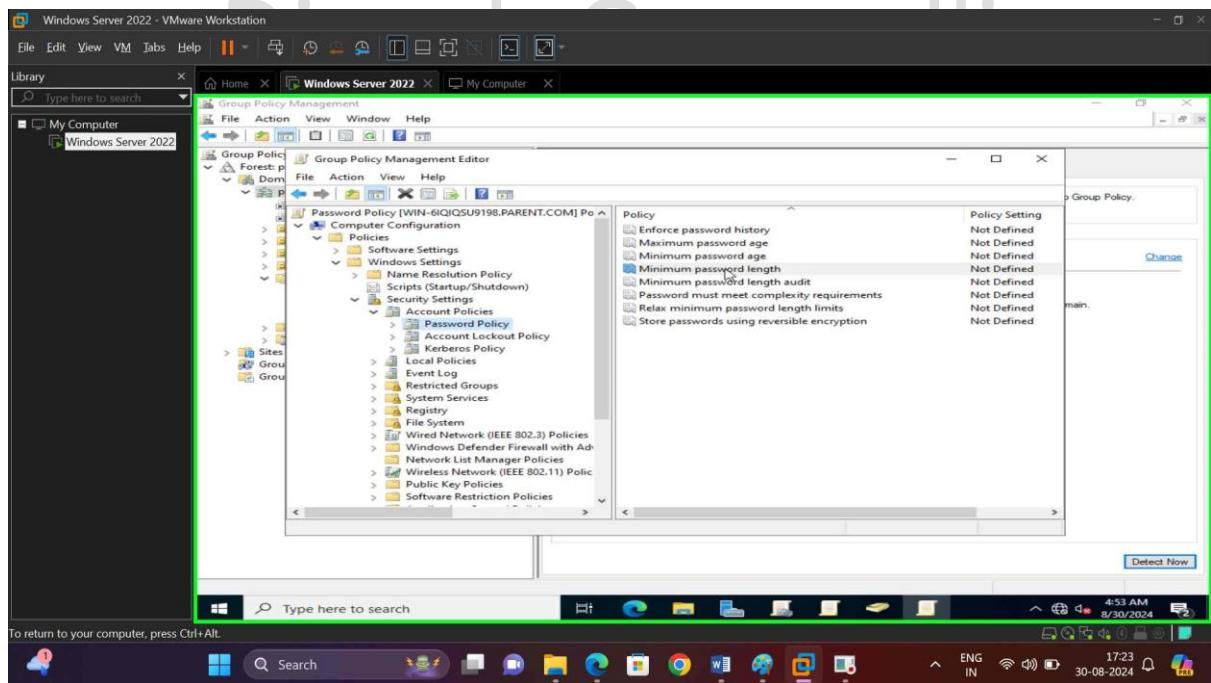
8. Under the “Windows setting” we can see “Security settings”



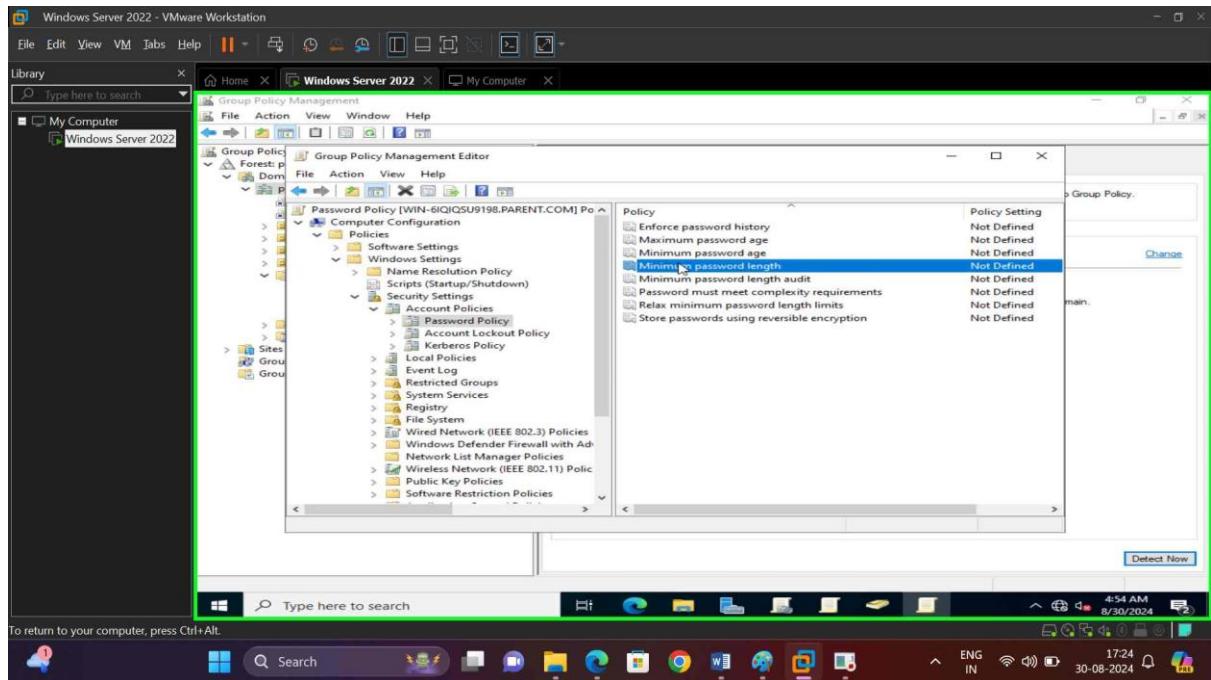
9. Now we need to select the account policies, expanded it.



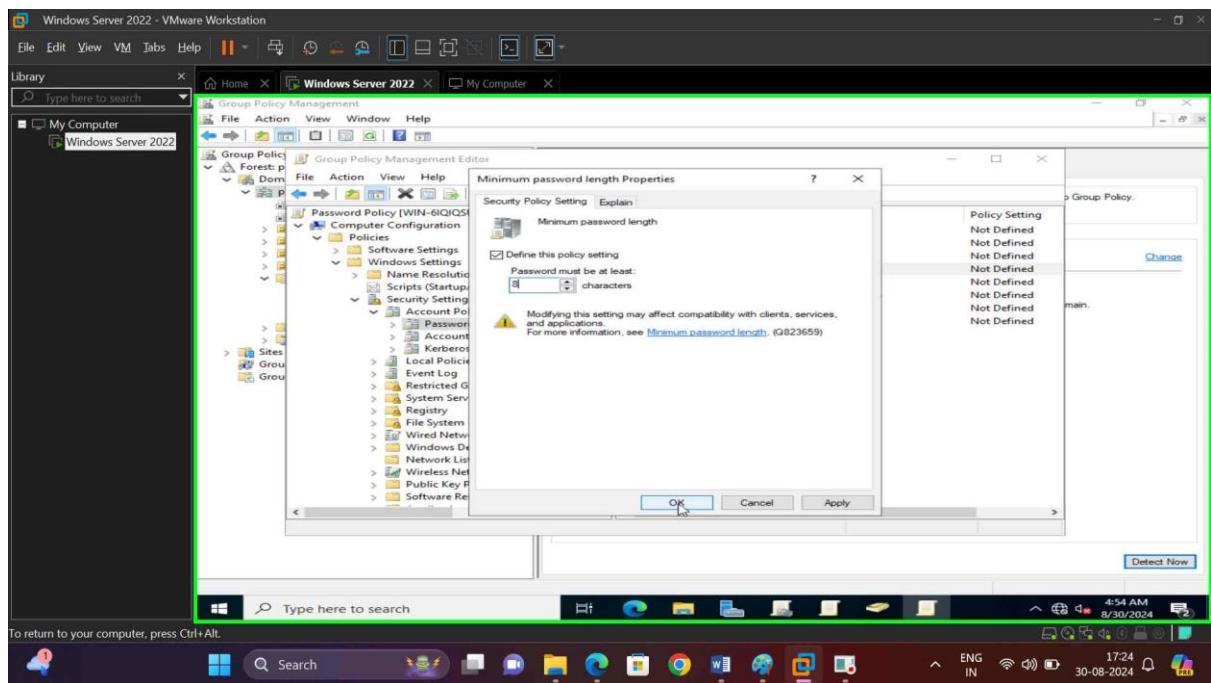
10. There we can find the “Password Policy” then select it what policy need to give.



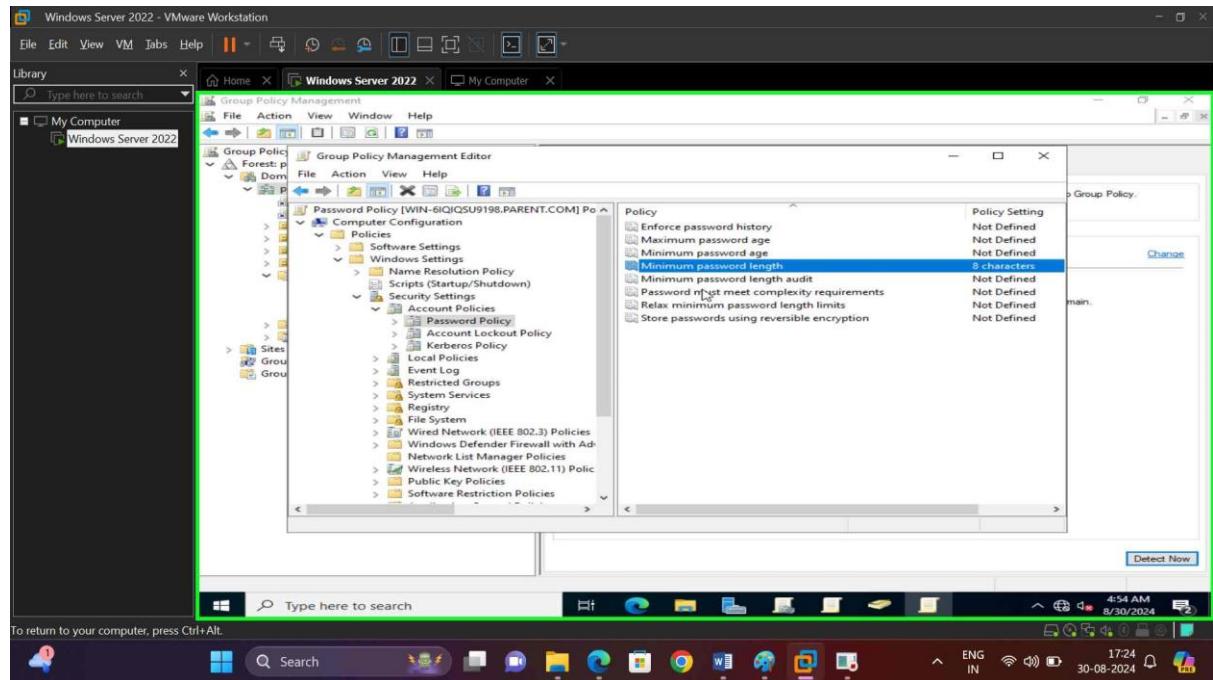
11. If you want have Minimum password length select it



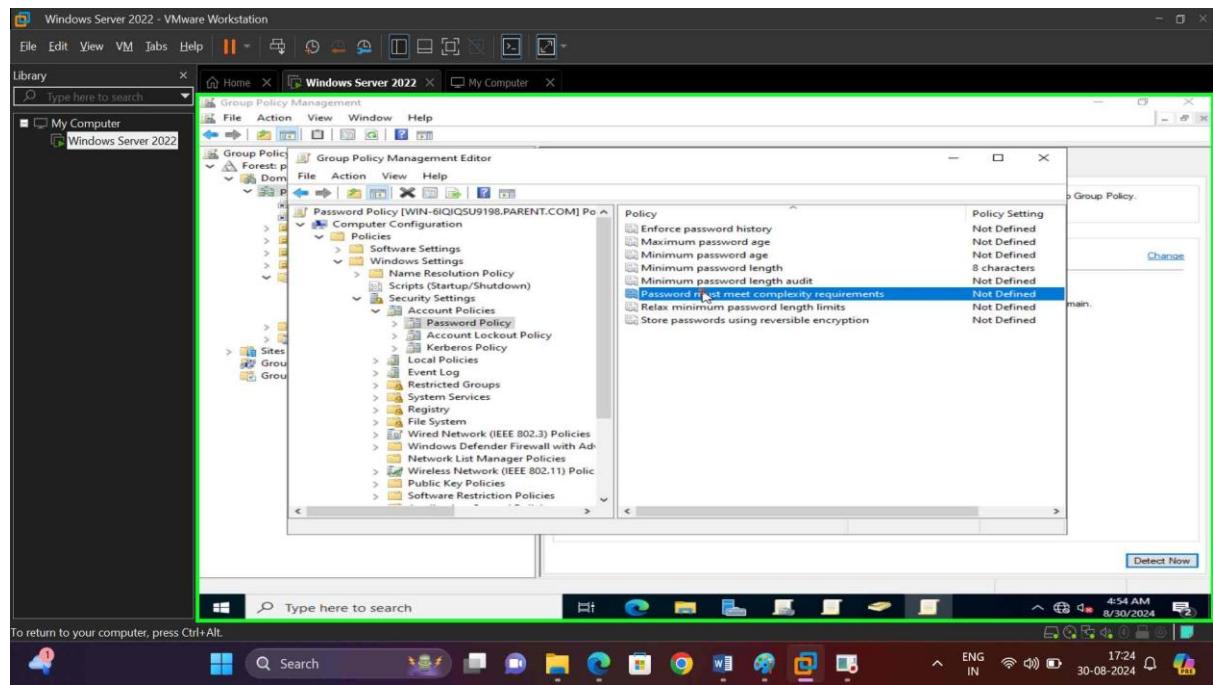
12. There you give some number you want. I am giving 8 minimum character are required. Then click ok.



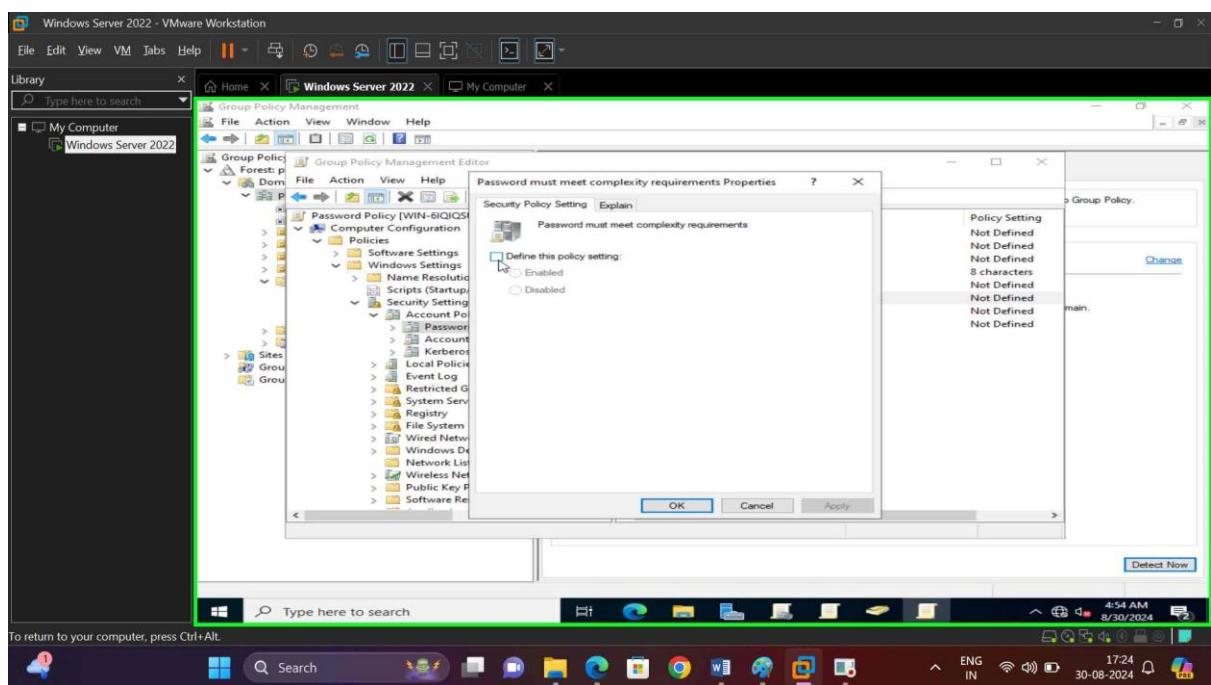
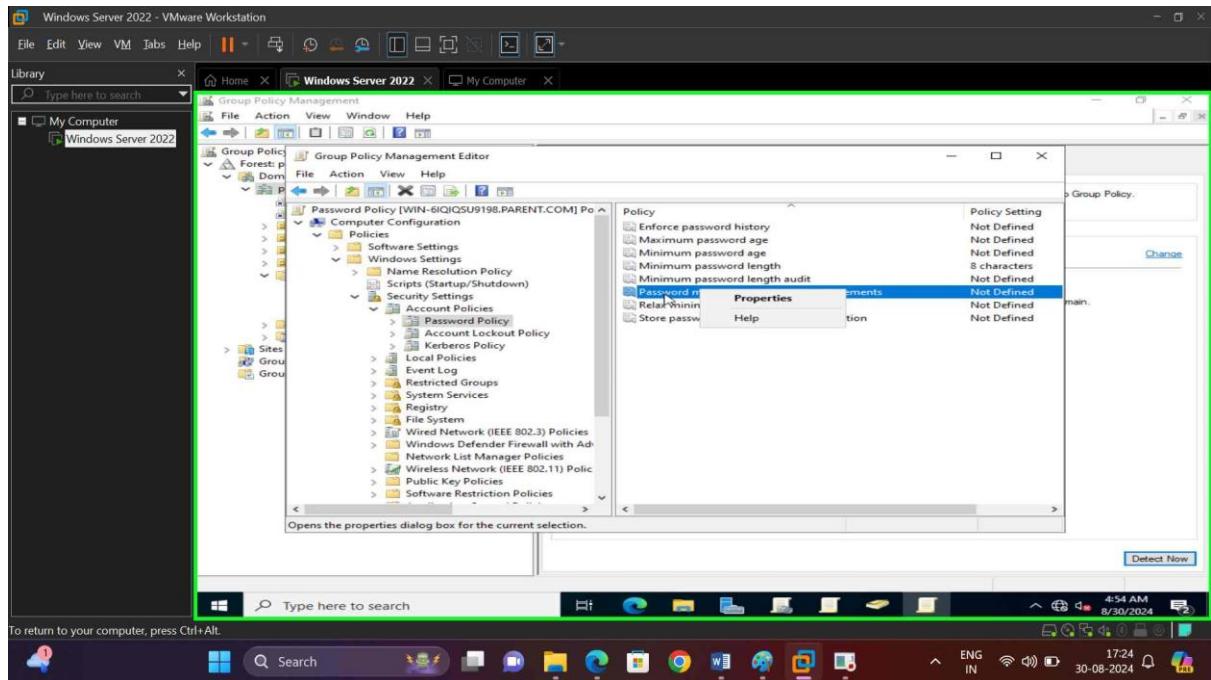
13. Now we can see the length which we have given.



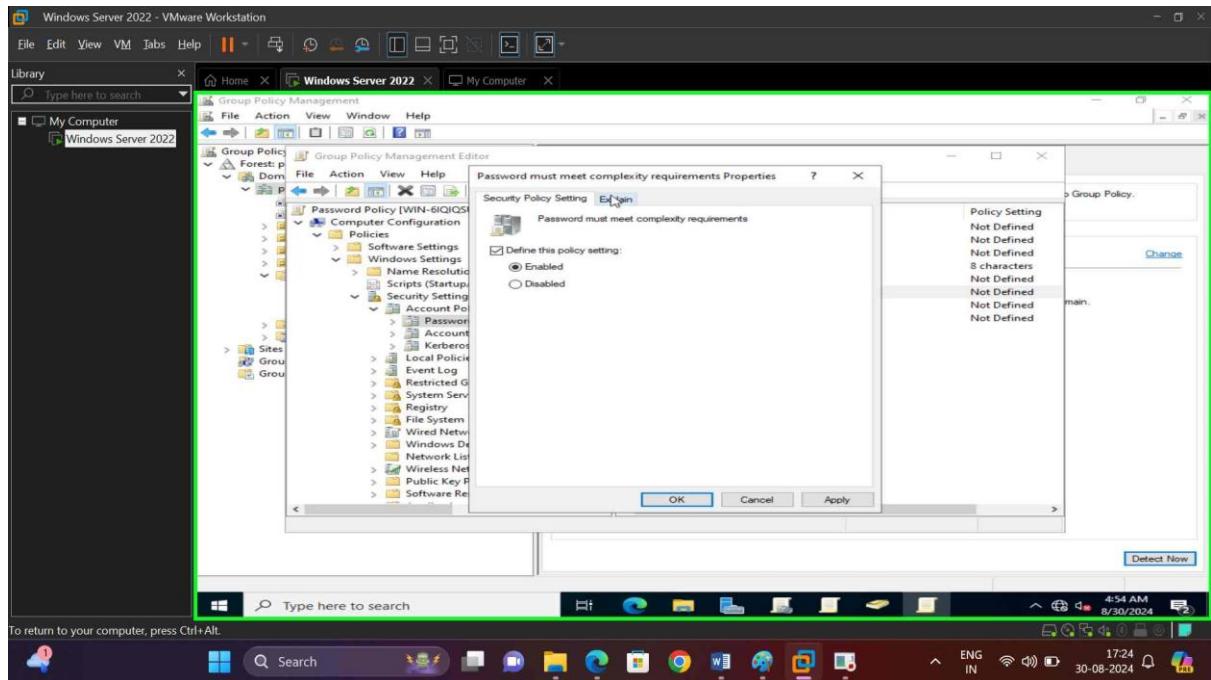
14. If need to put some complexity in the password select “Password must meet complexity requirements”



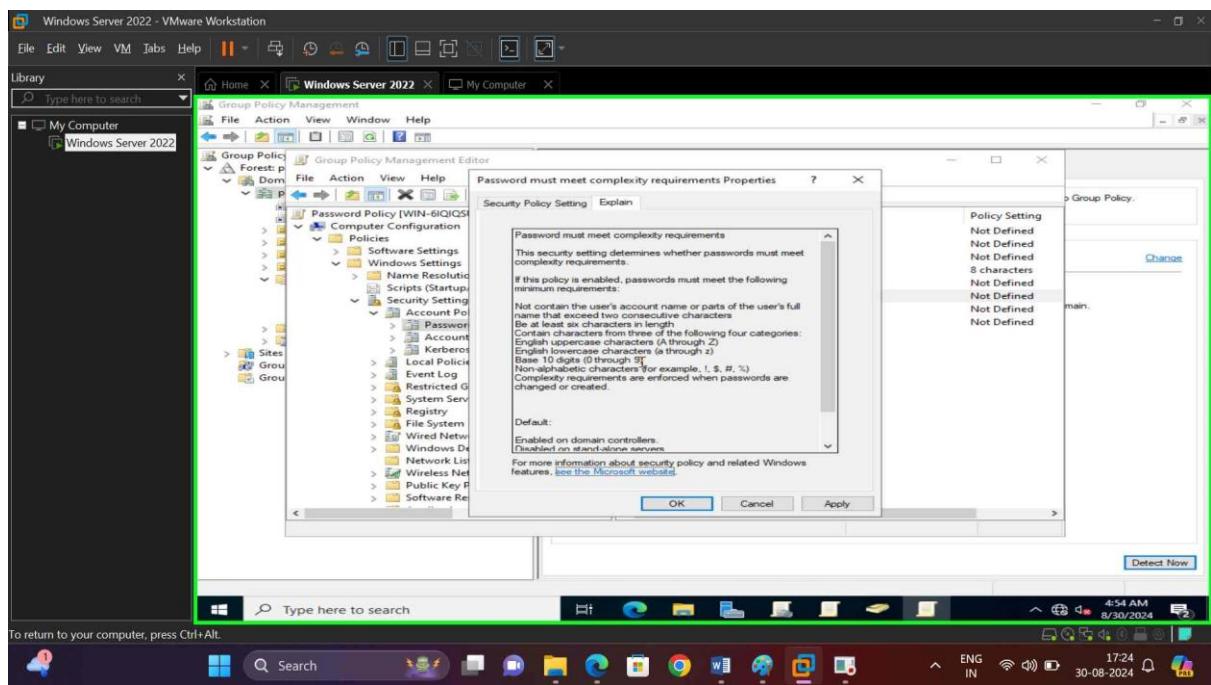
15. Click on it , select the properties.



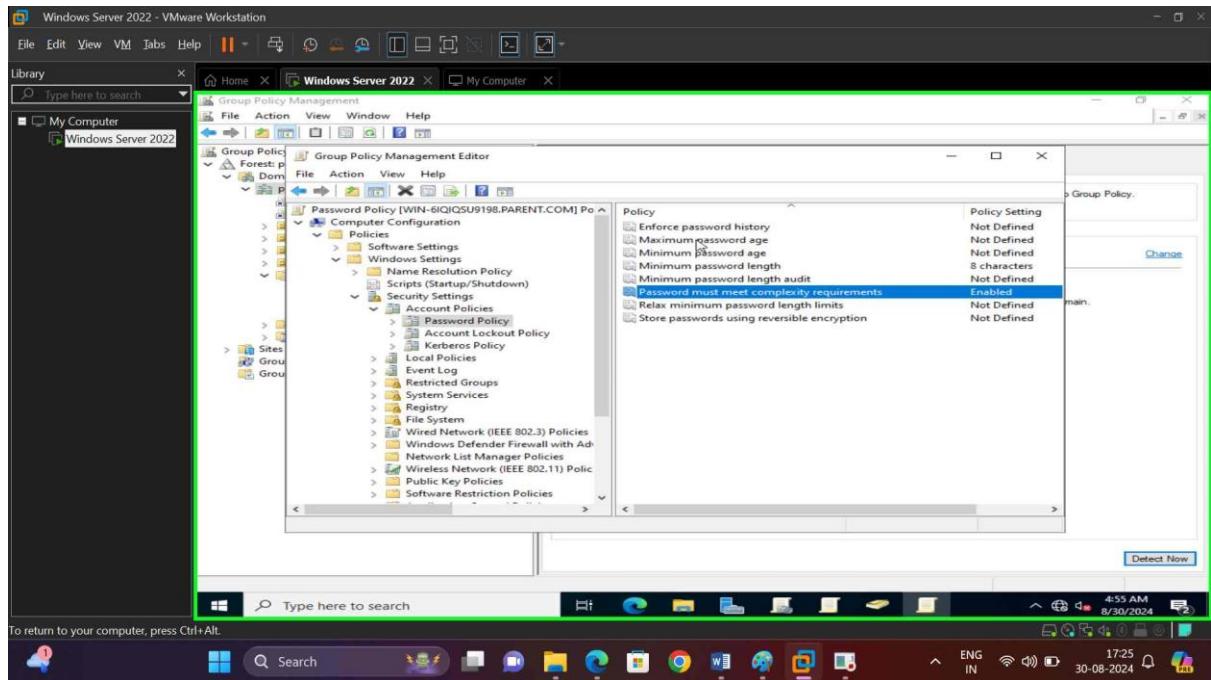
16. Click on the check box “Define the policy setting” then select “enable” then click ok



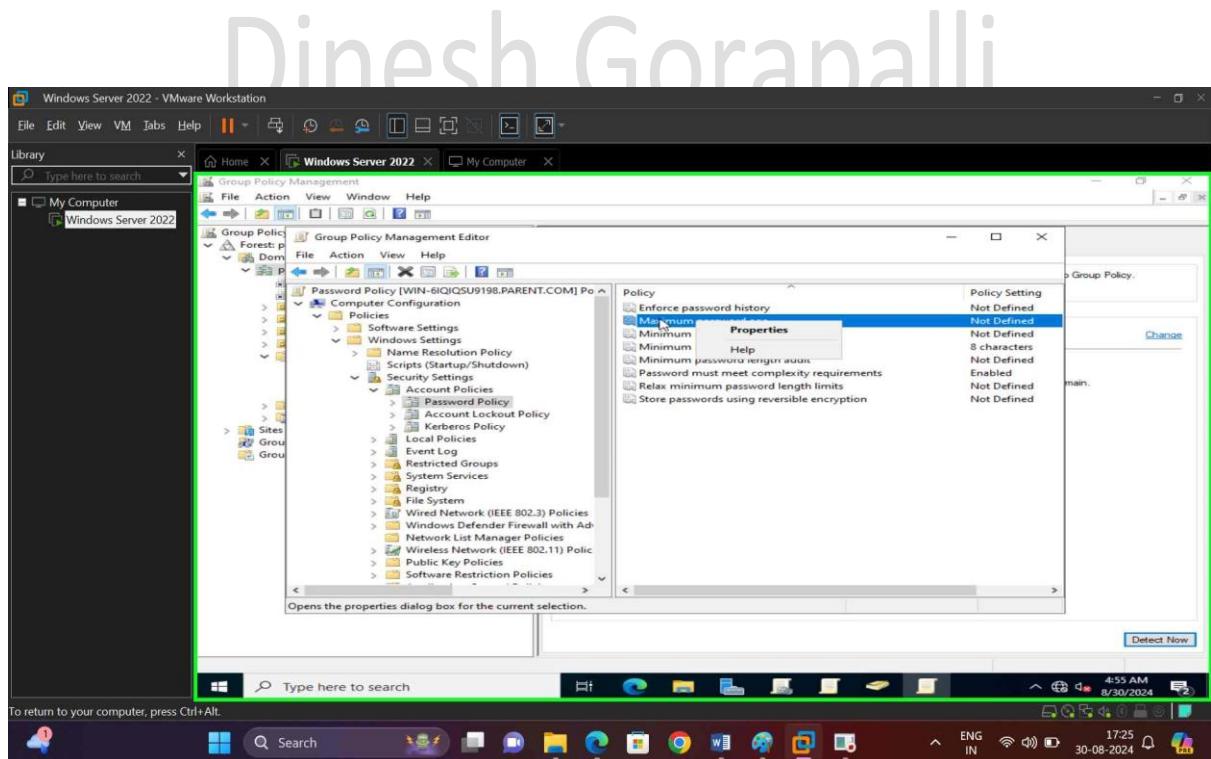
17. Now you view the explain the required complexities, after the click ok.



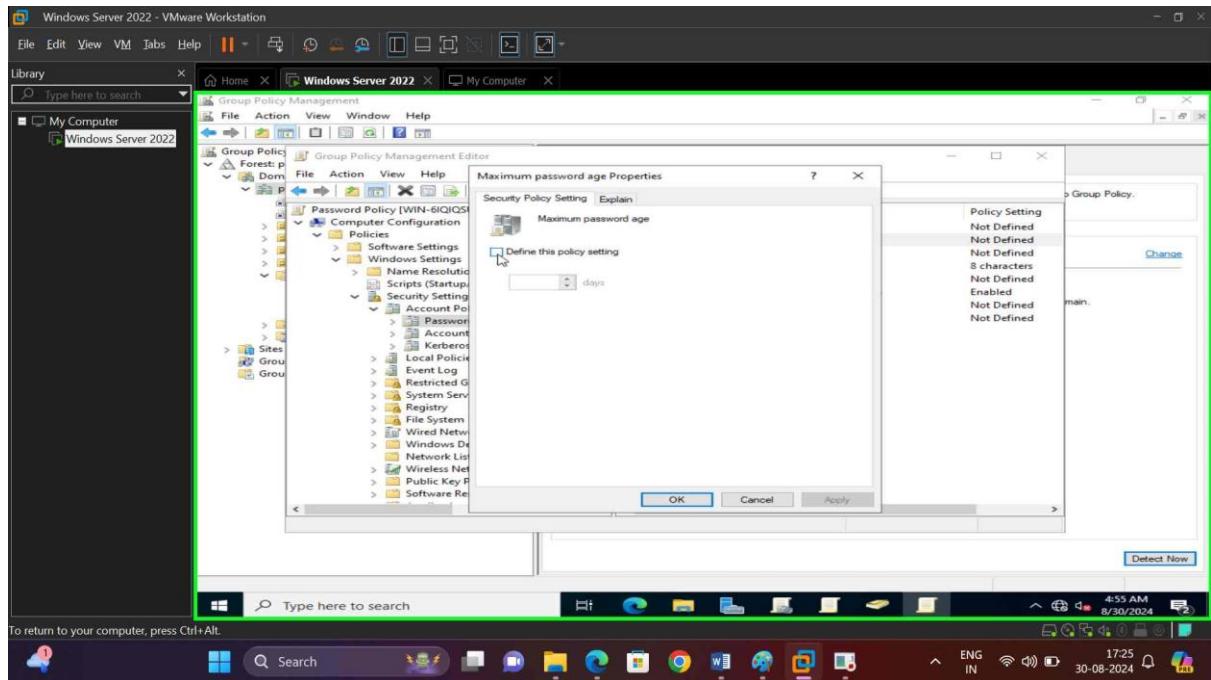
18. So we can see that "Password must meet complexity requirement" is enabled.



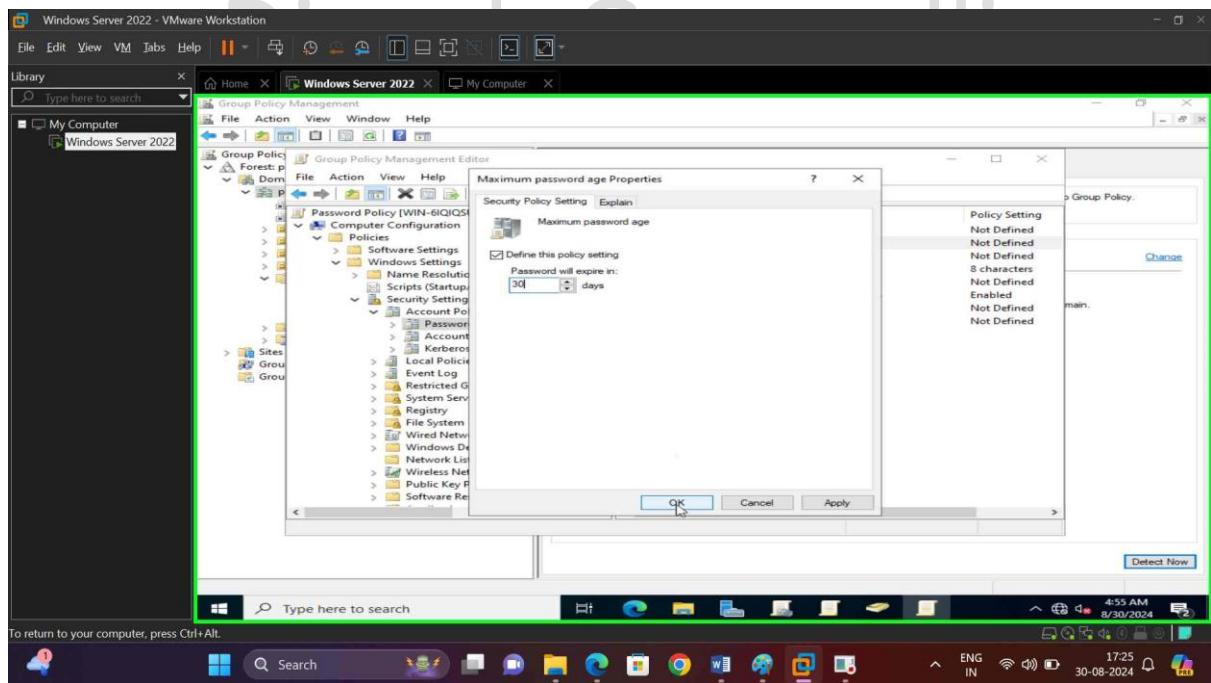
19. If you want have “ Maximum Password age “ select on it. Right click on it . select Properties.



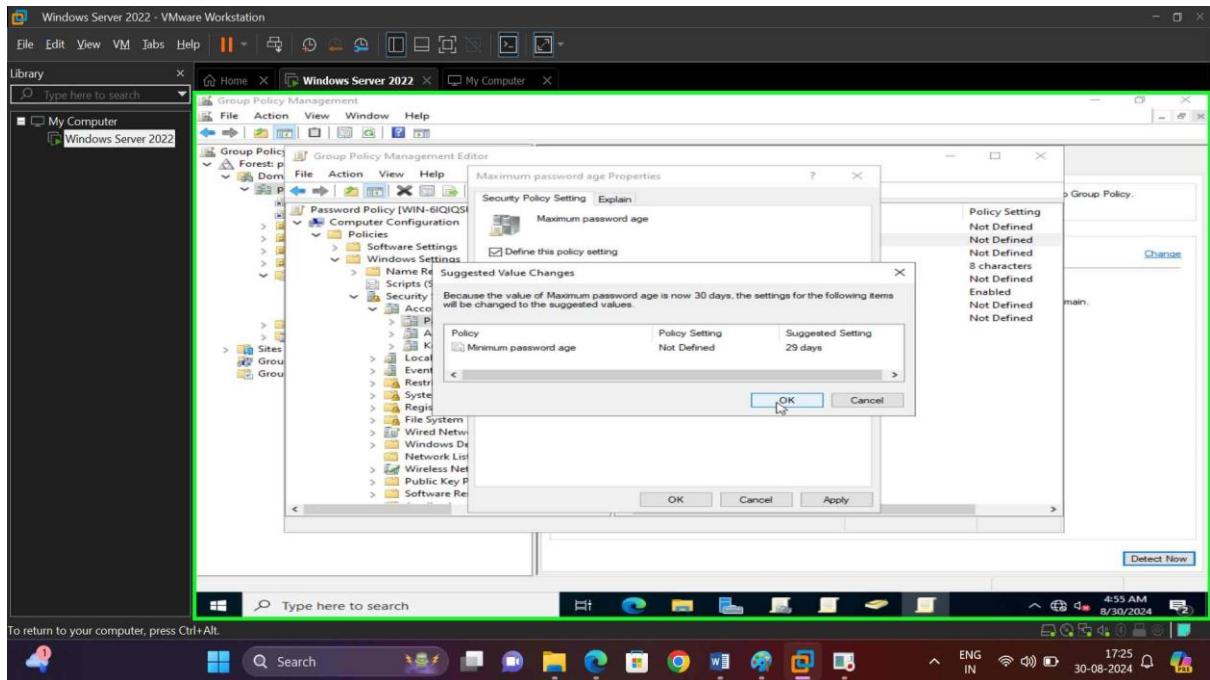
20. Click on the check box “Define the policy setting” then select “enable” then click ok



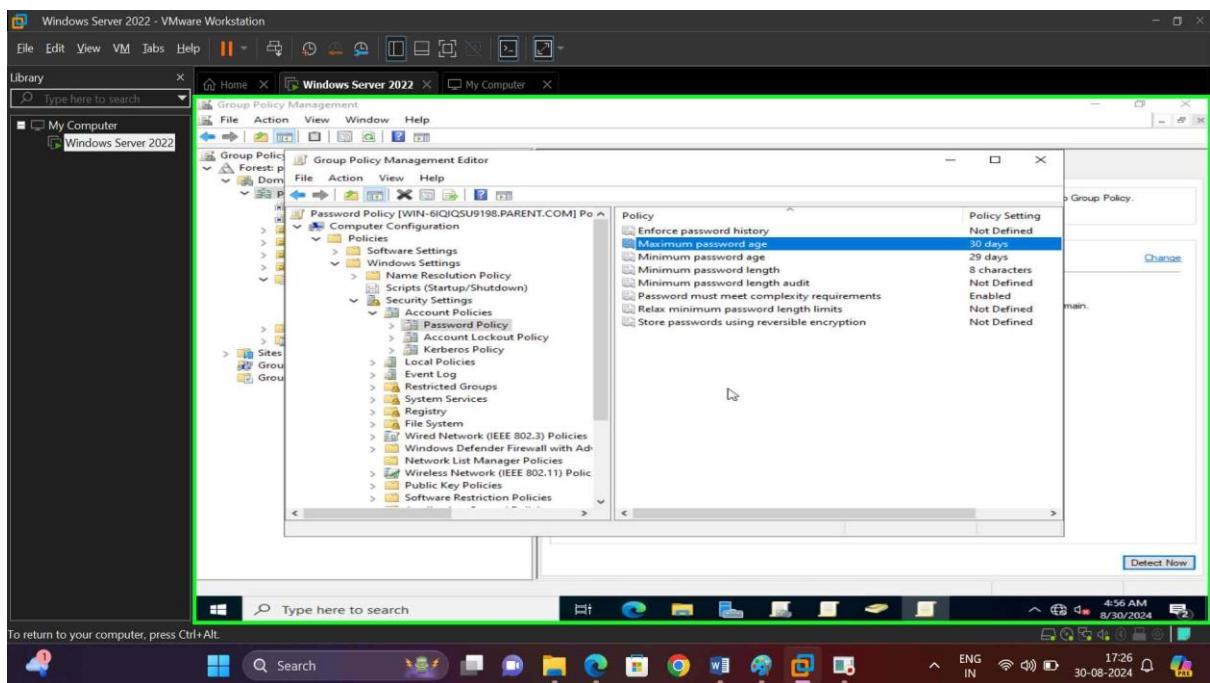
## 21. Set some days to “Password to expire”



## 22. Click ok.



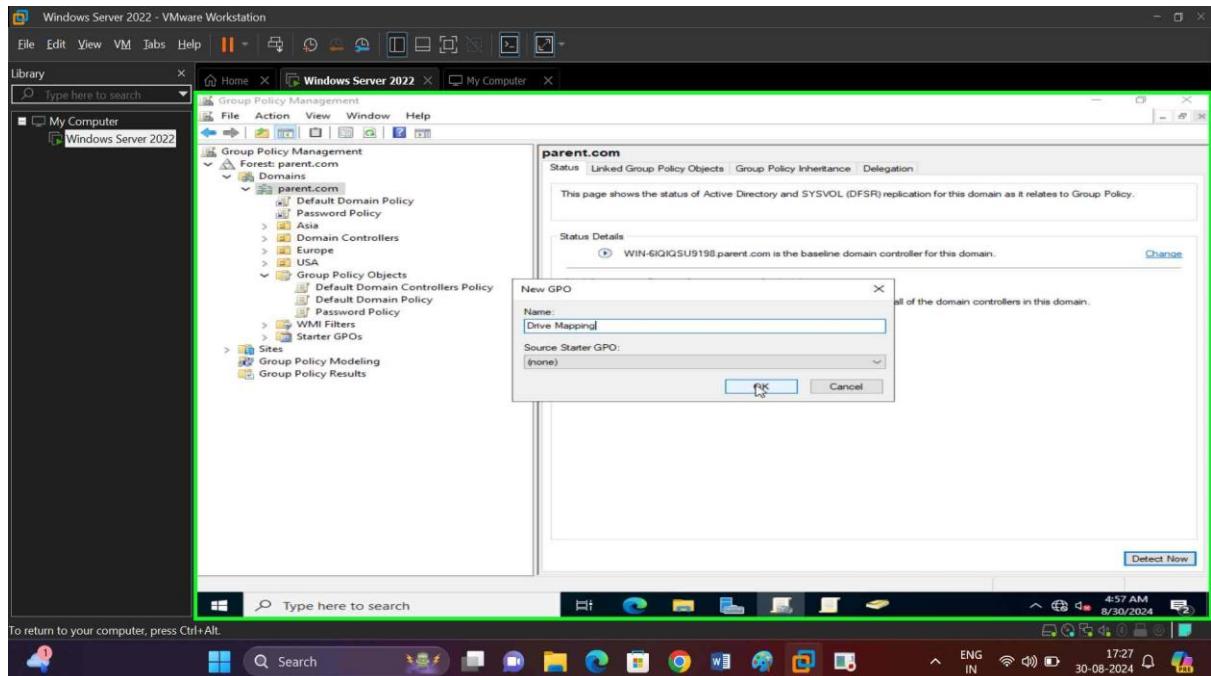
23. Now we can see, what we have given policy for password, we can view that.



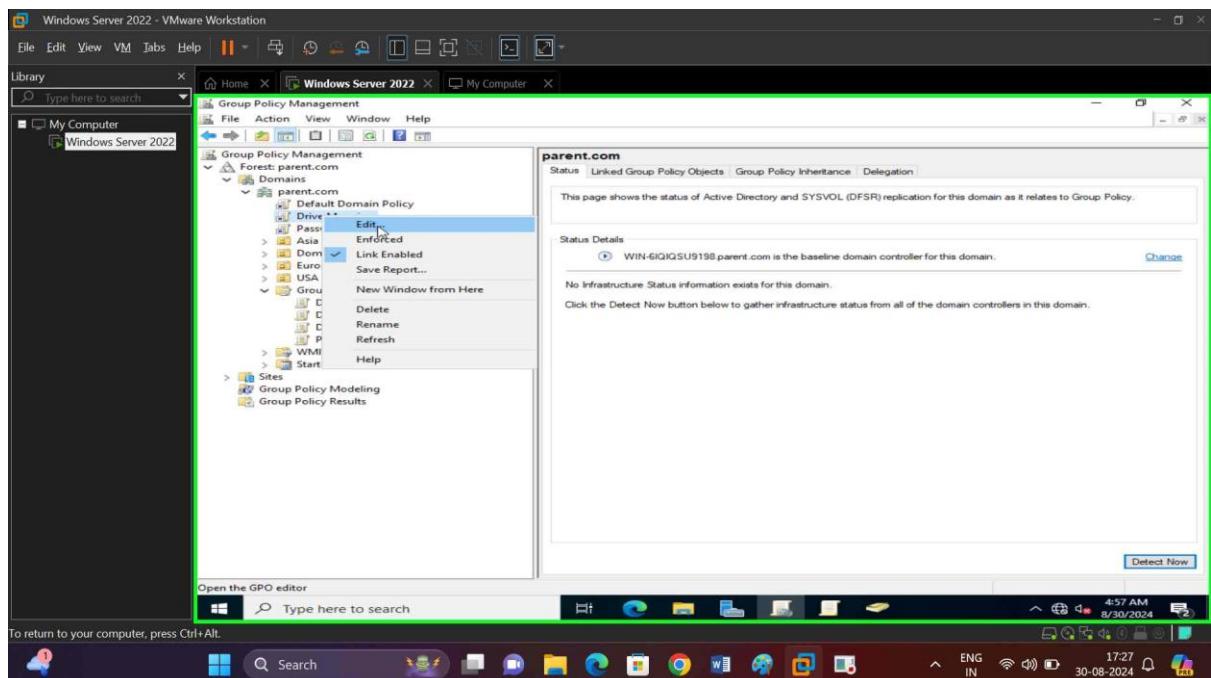
## Group Policy 2: Drive Mapping

Map network drives for users when they log in.

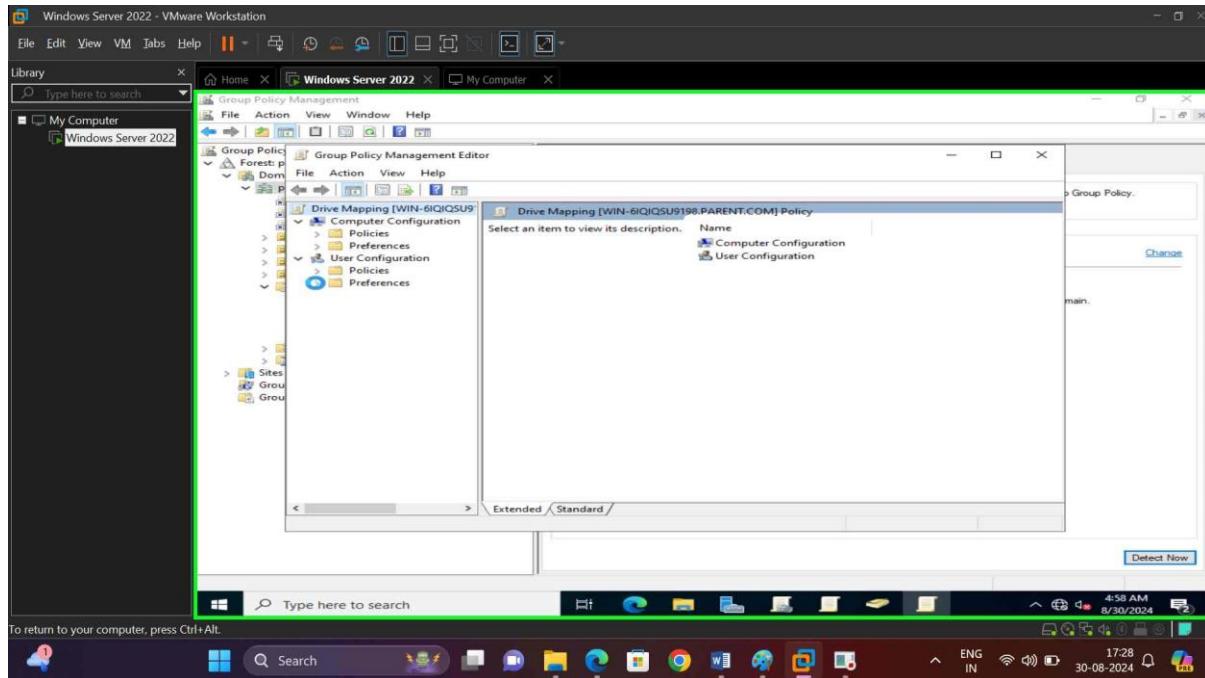
1. Right click on the domain name, select the create GPO and name it as "Drive Mapping". Click on ok.



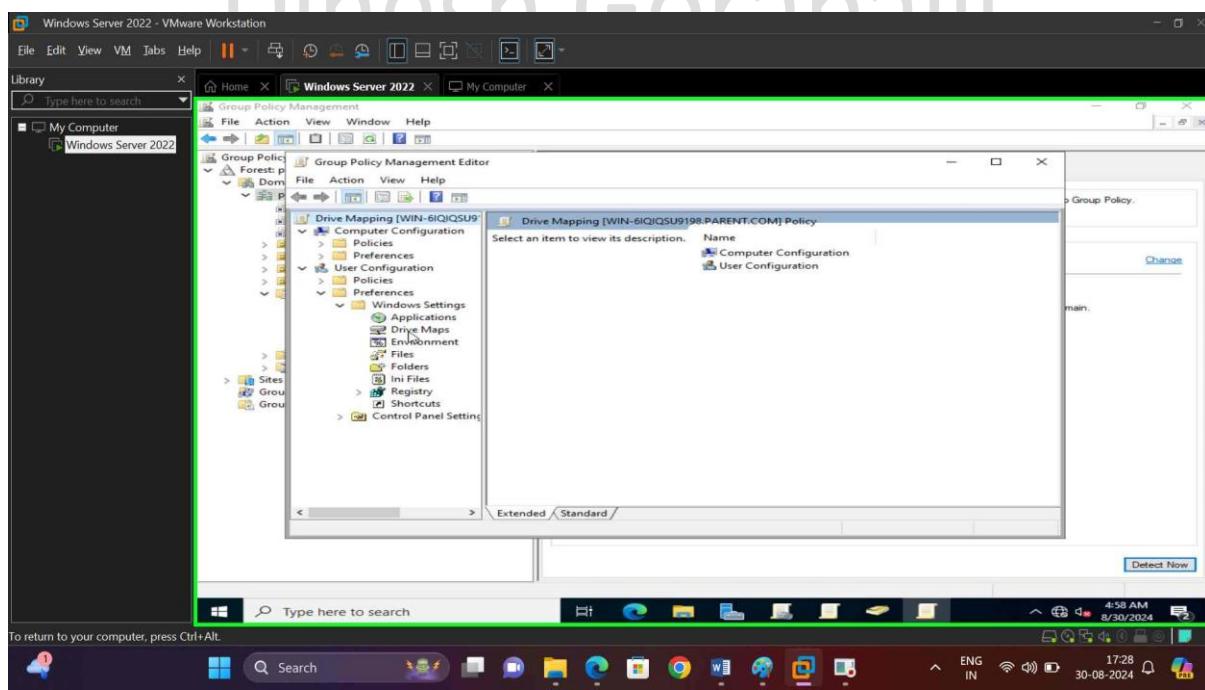
2. Then right click on the Drive Mapping, select edit.



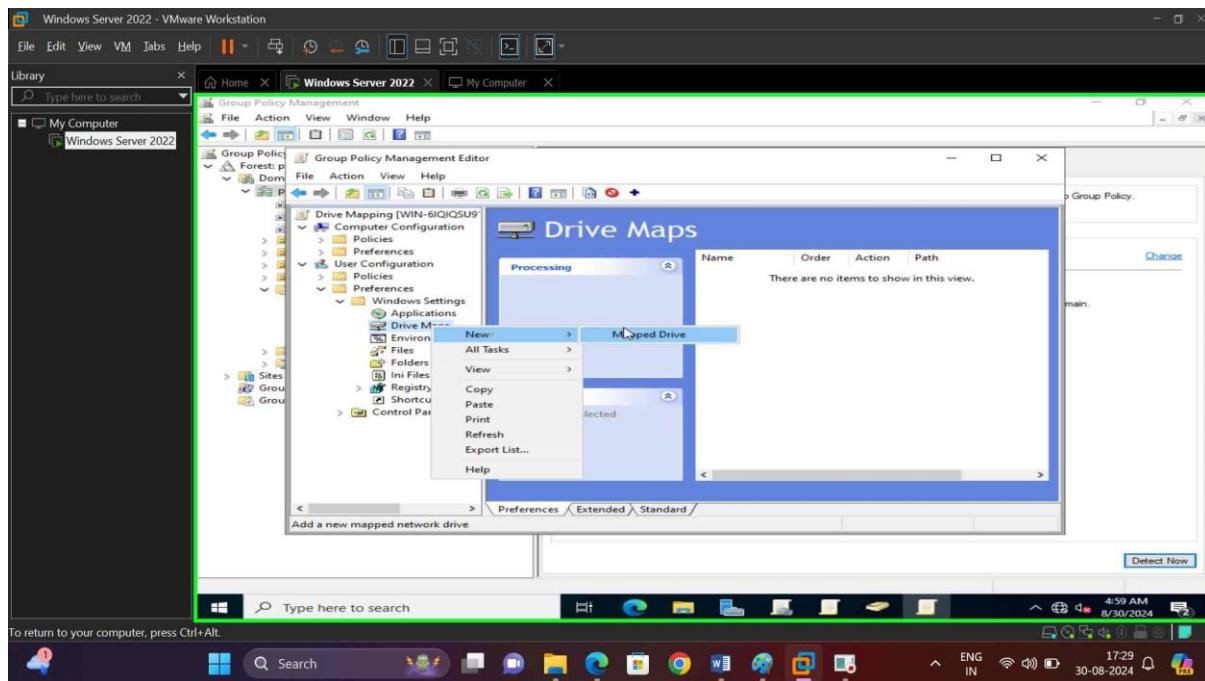
3. Now we can see editor, in this case we have to select “user configuration” it need to be “preferences”.



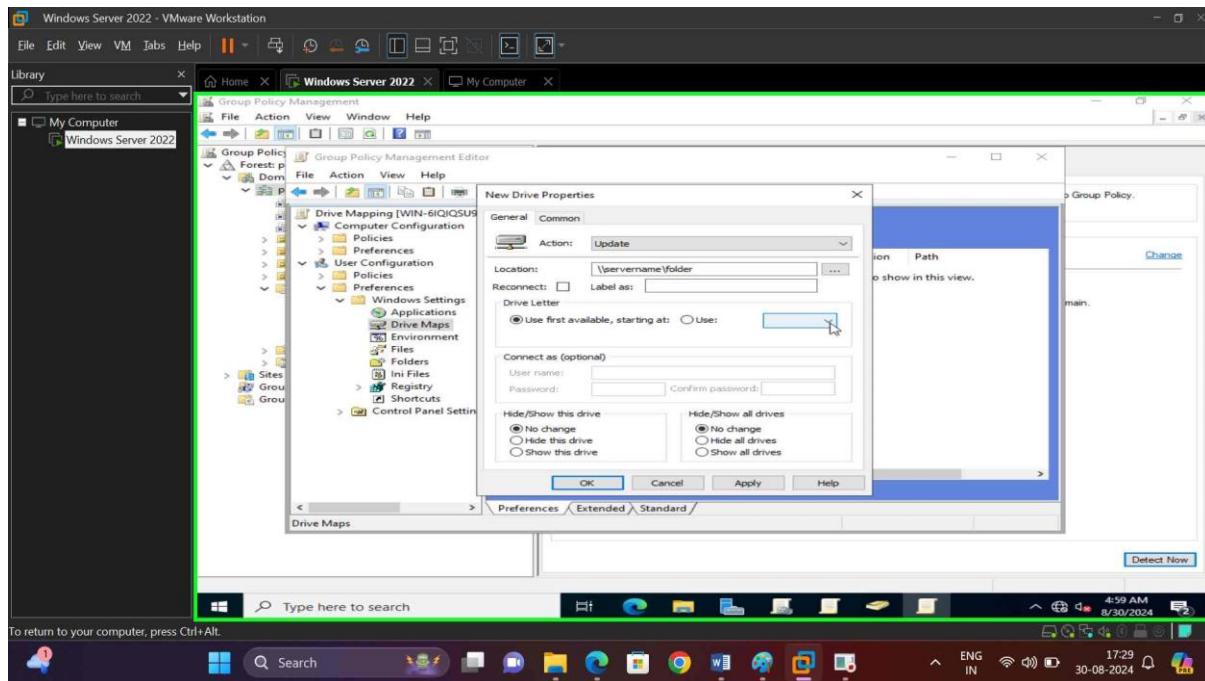
4. Expand preferences, expand the window settings. We can see drive maps.



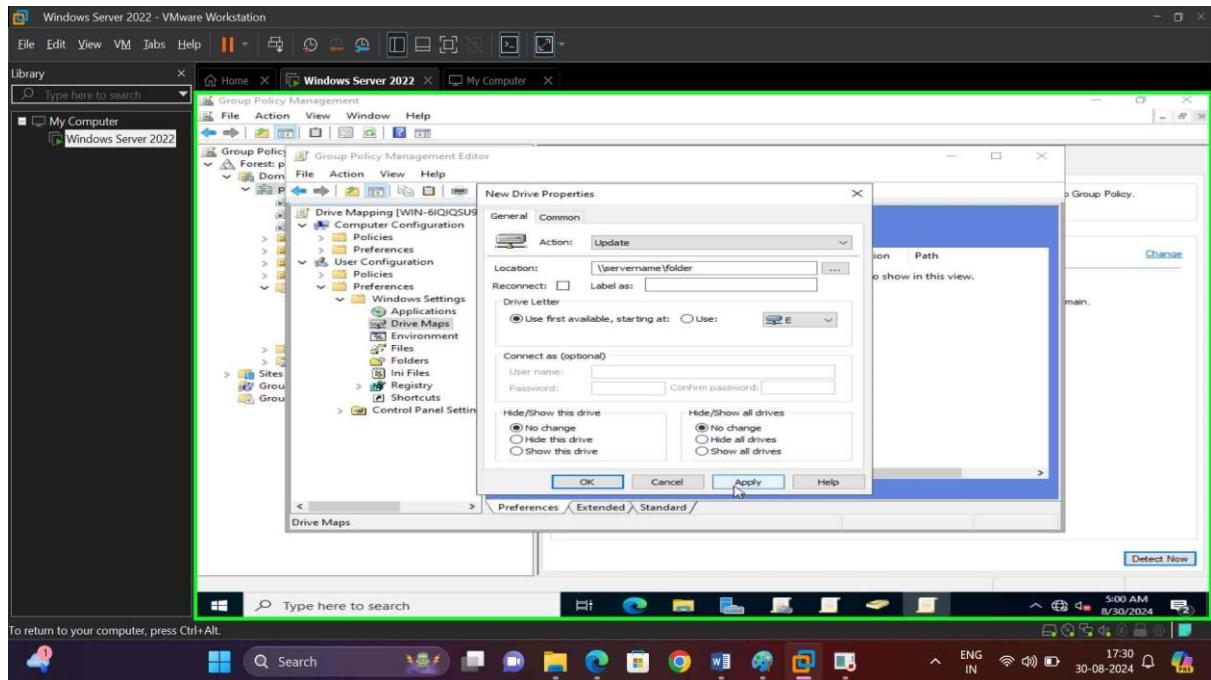
5. Then right click on it, select new then Mapped drive.



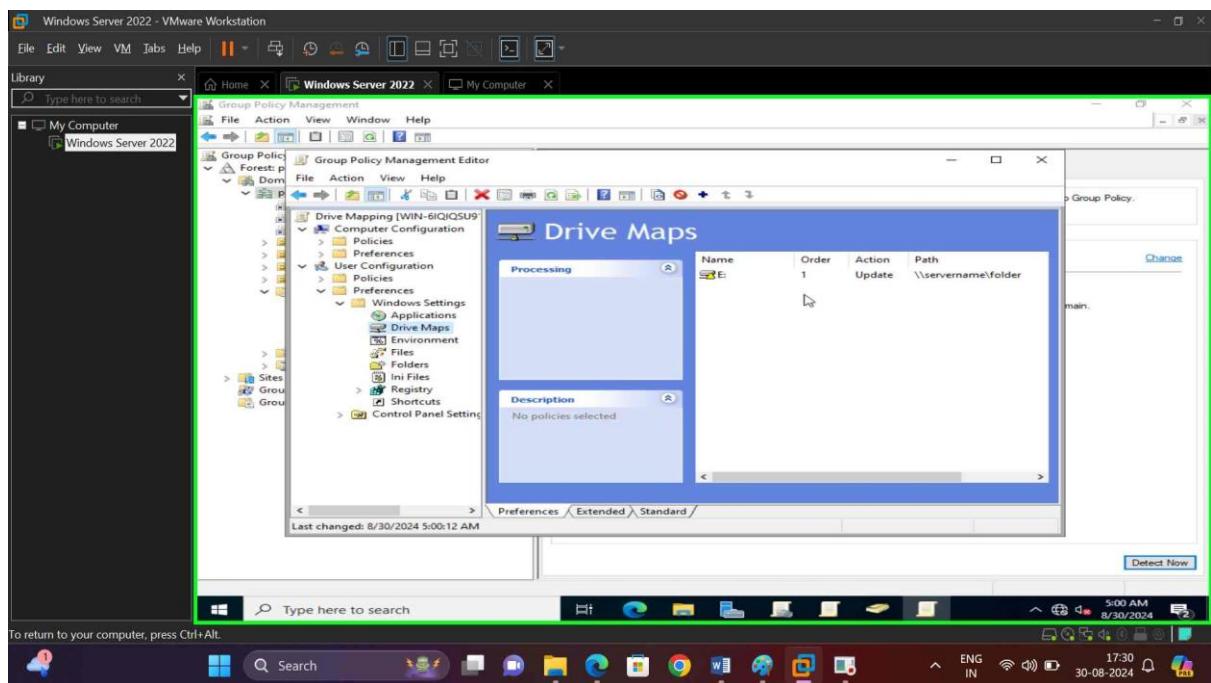
6. Then we need to put location of the network share. For example <\\servername\\folder>. Choose Drive letter.



7. Then select any drive then click apply.



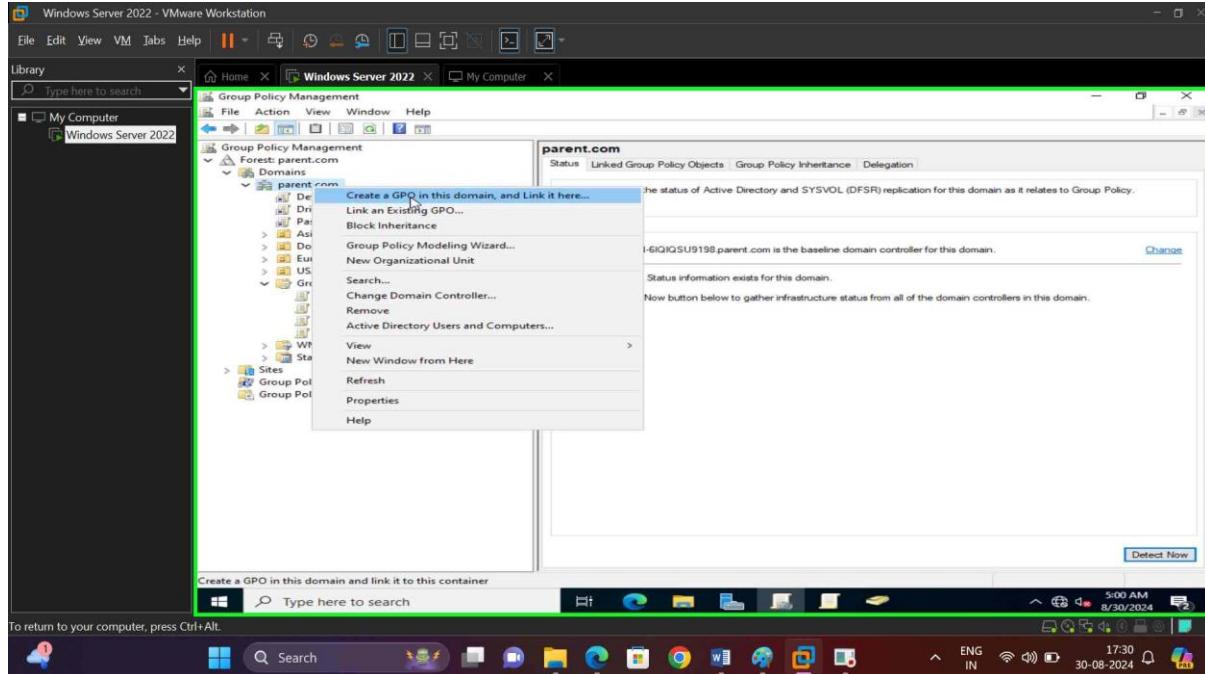
8. Now we can see this Drive Maps, with path given.



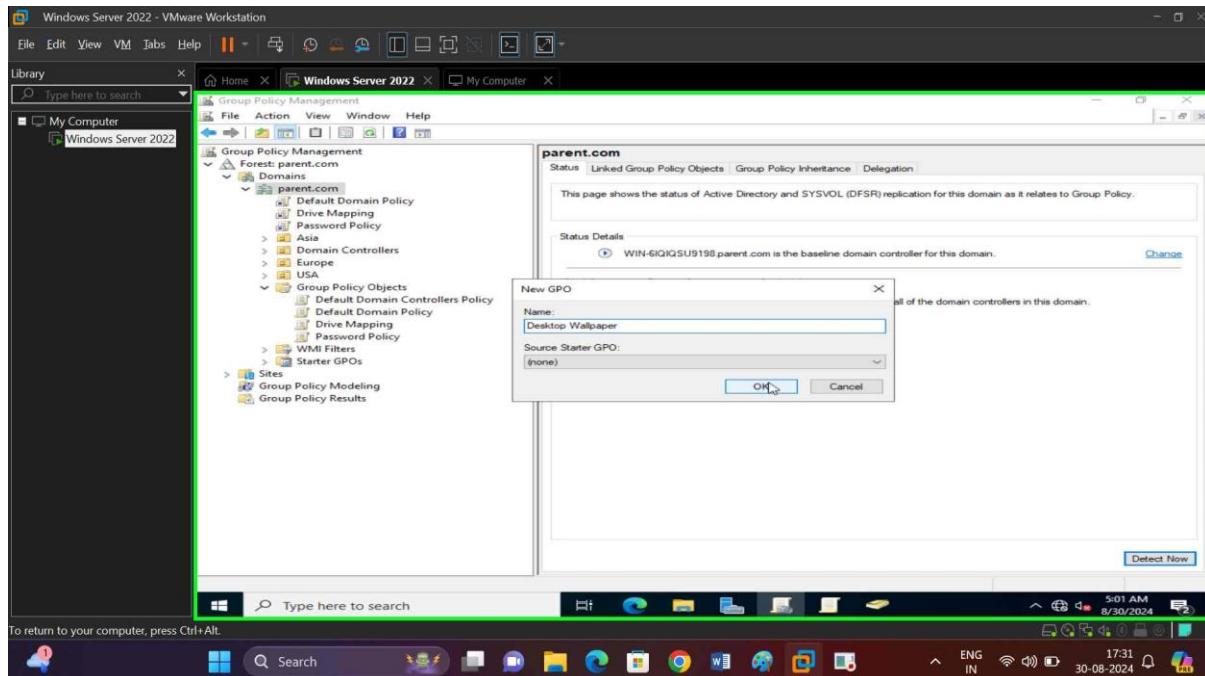
## Group Policy 3: Desktop Wallpaper Policy

Set a default desktop wallpaper for all users.

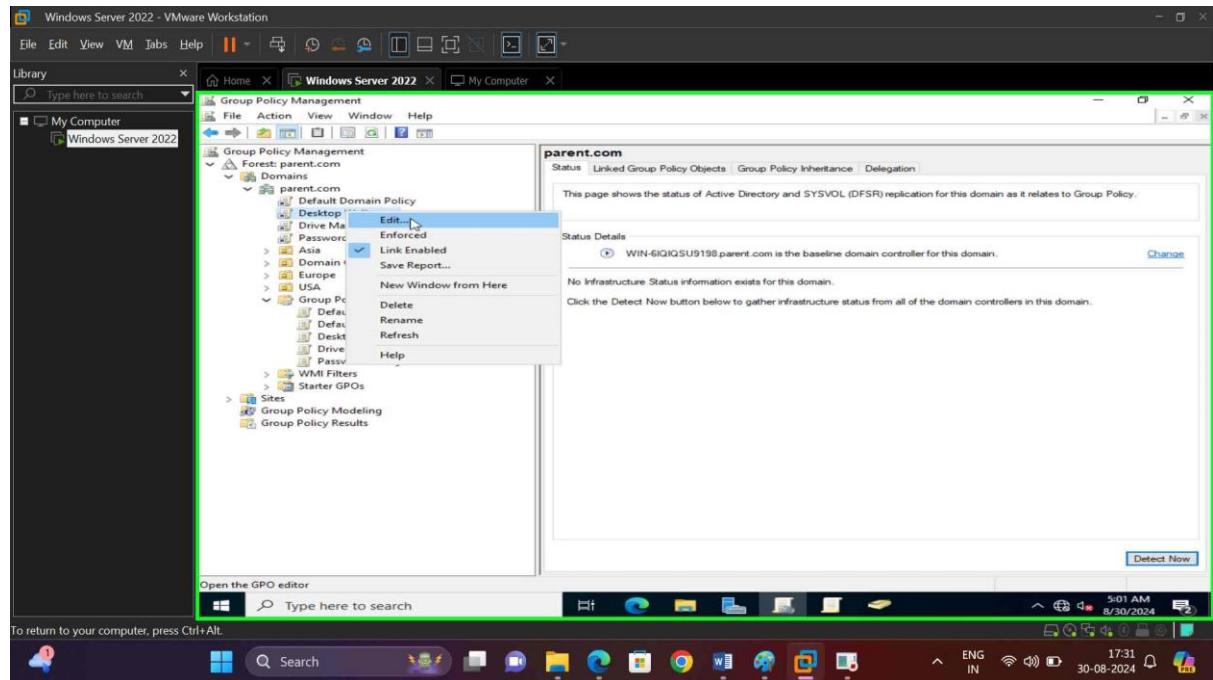
1. Right click on the Domain name, select the Create GPO



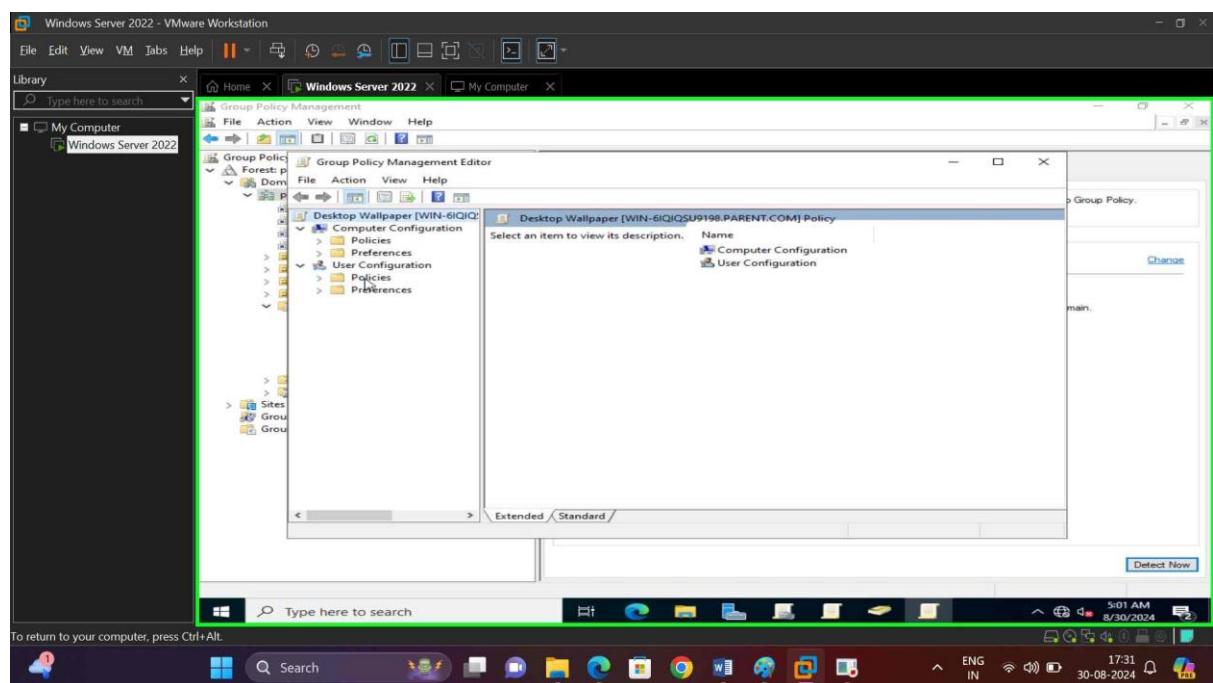
2. Type a name as Desktop Wallpaper. Click ok



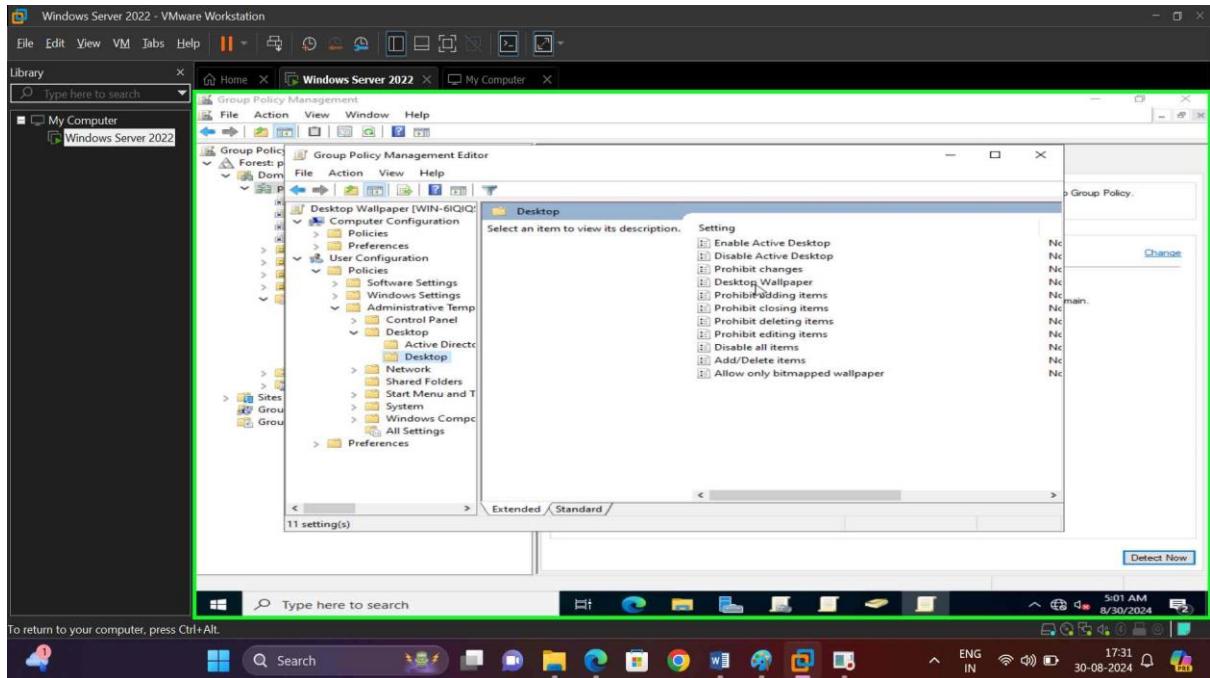
3. Right click on Desktop Wallpaper, select edit.



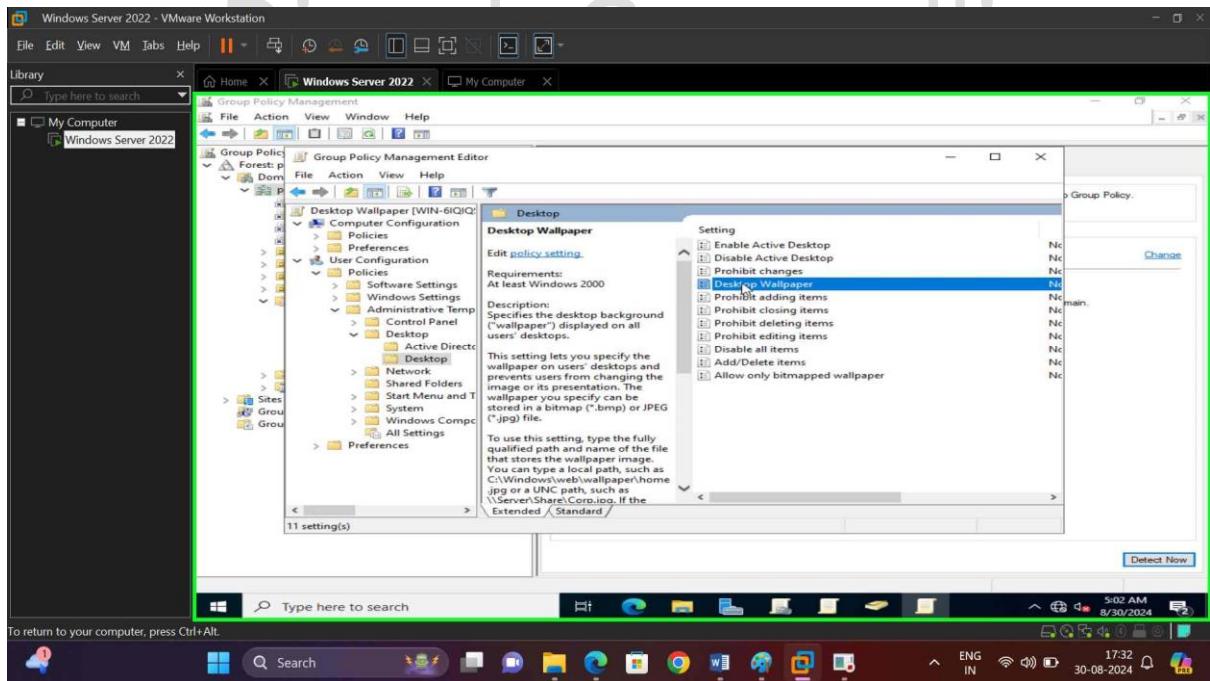
4. In case it is user configuration, it will be policies. Expand policies.



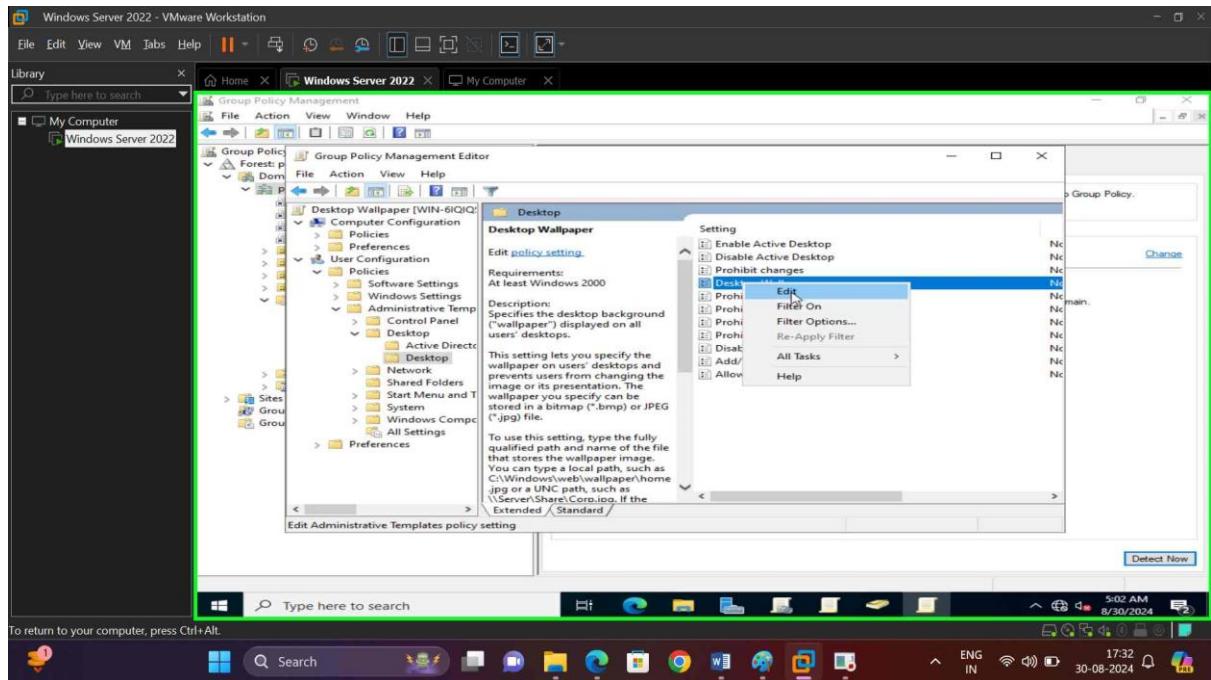
5. Expand the Administration Templates -> Desktop -> Desktop.



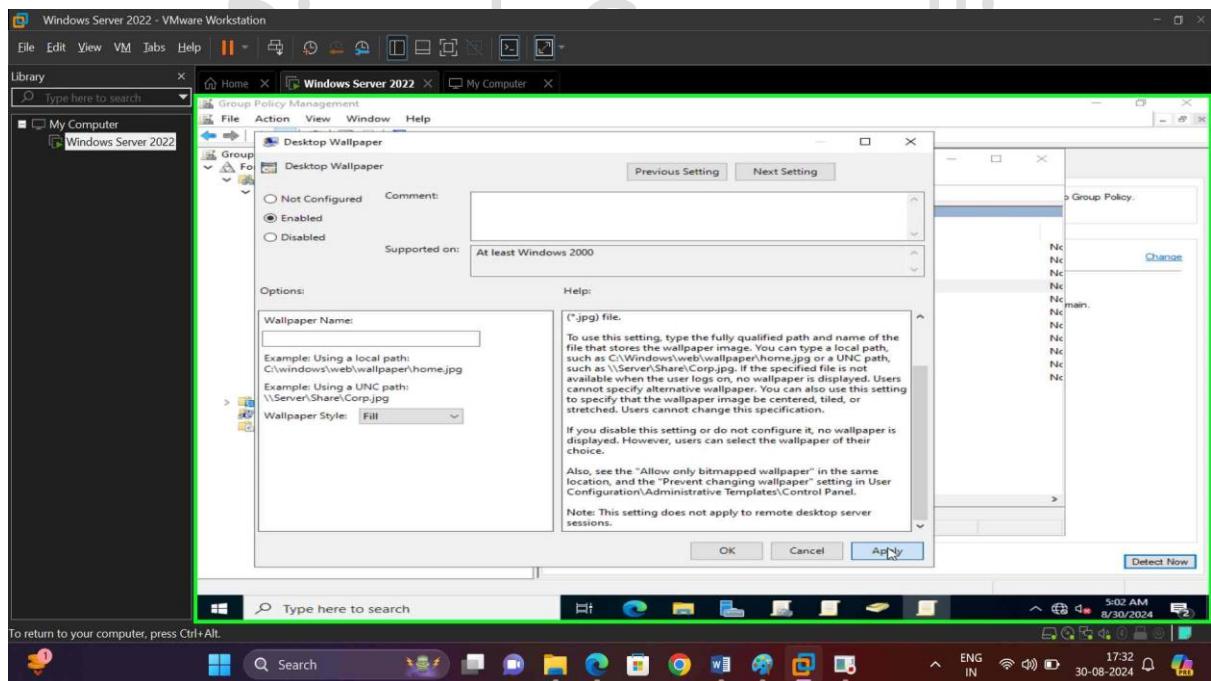
6. Select the desktop wallpaper.



7. Right click on it, select edit.



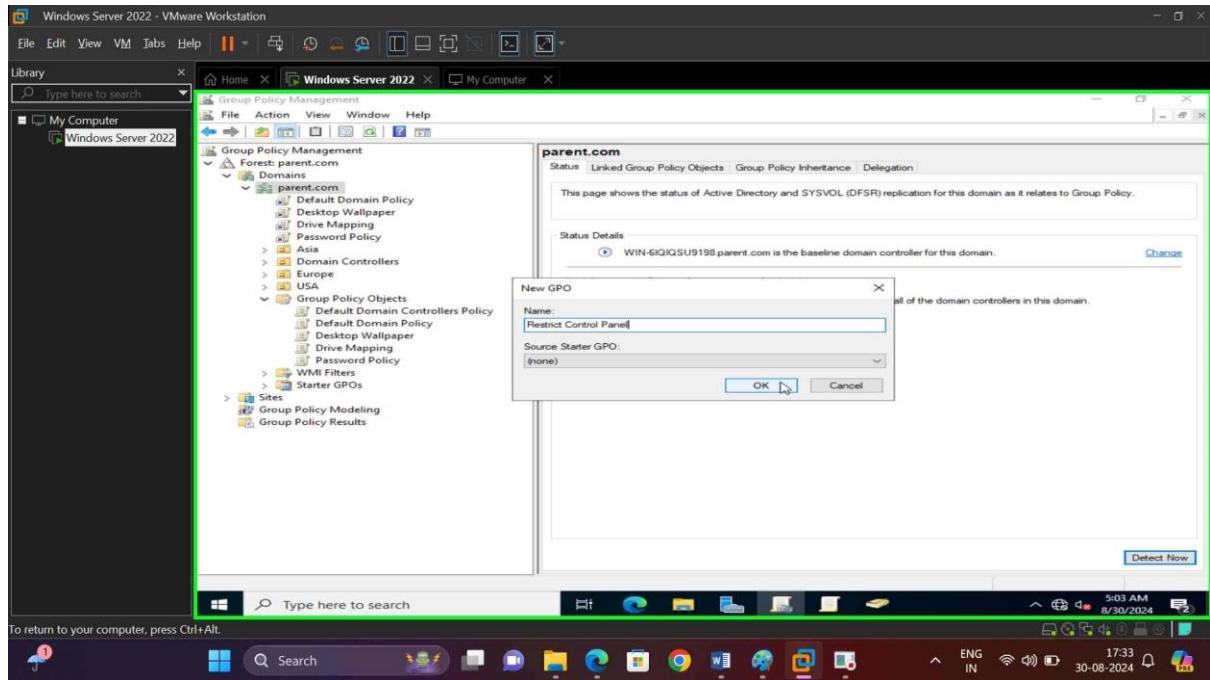
## 8. Select enabled and then select the path of it.



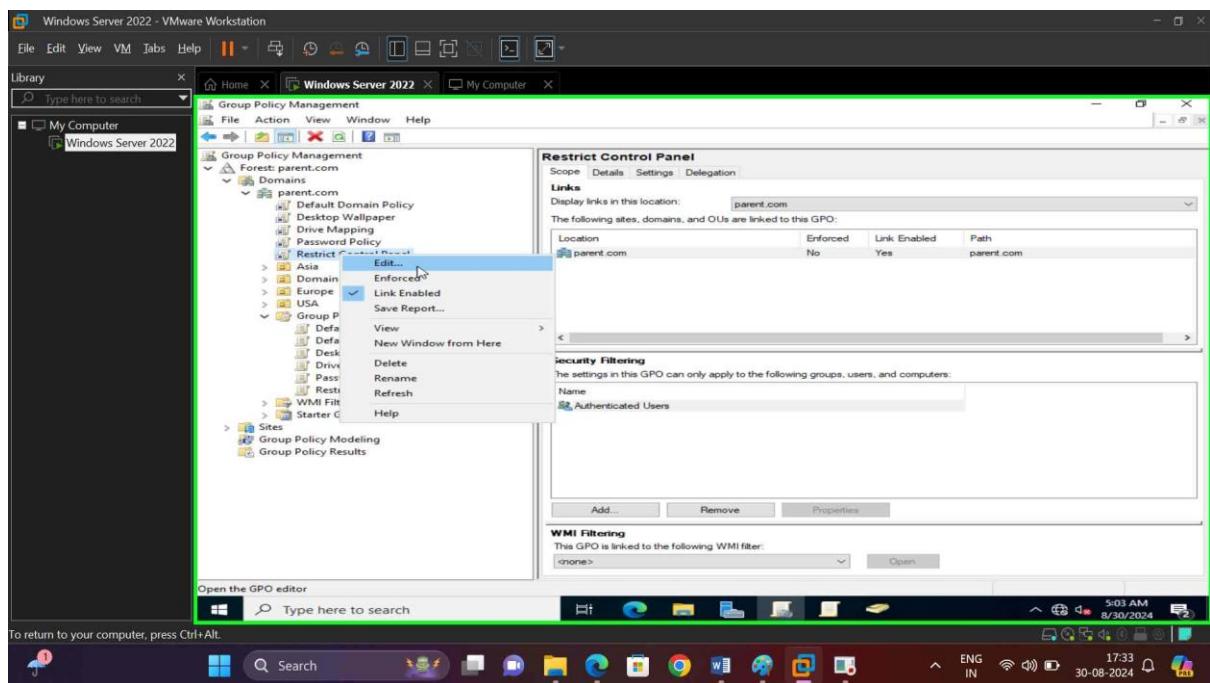
## Group Policy 4: Restrict Access to Control Panel

Prevent users from accessing the Control Panel

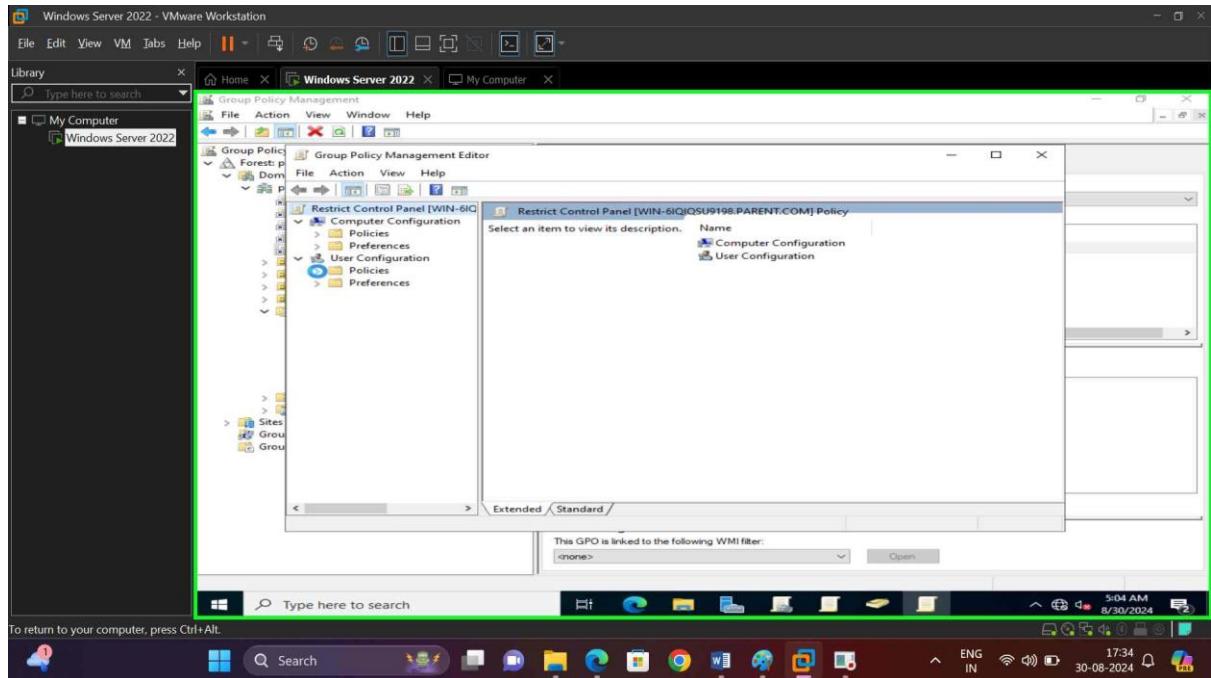
1. Right click on the domain name, click on create GPO, Name it as “Restrict Access to control Panel”.



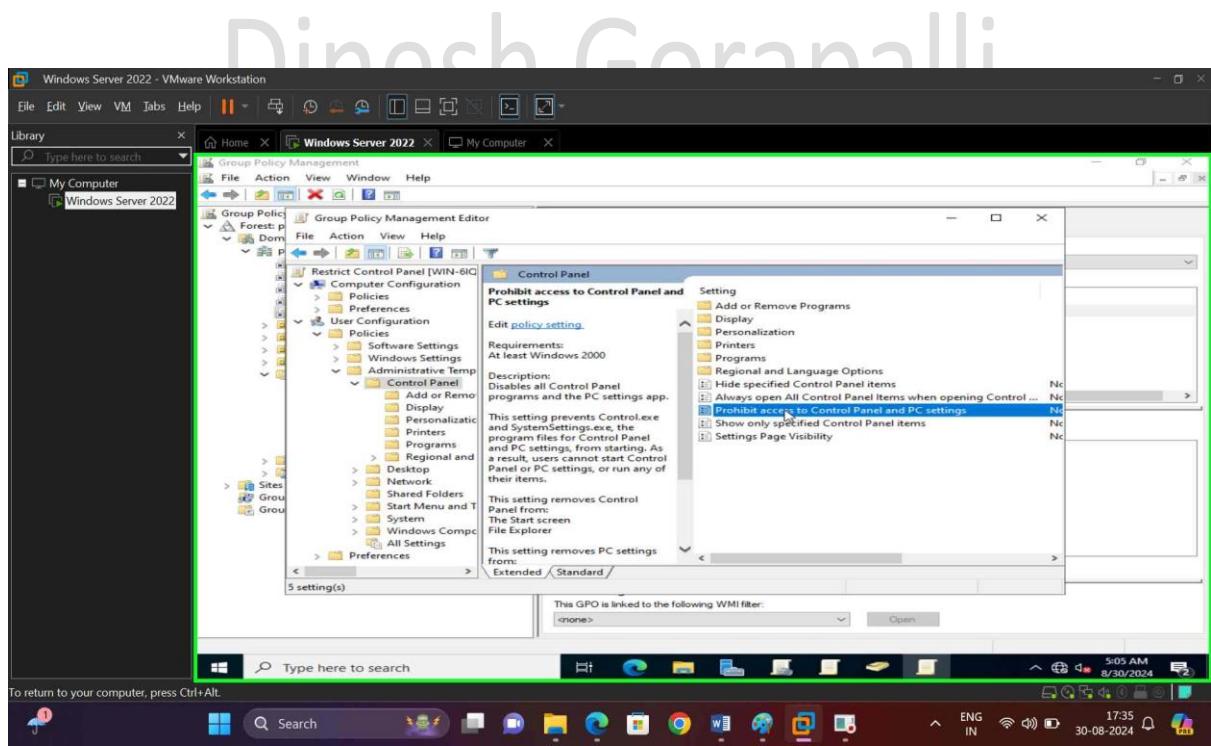
2. Right click on Restrict Control panel , select edit



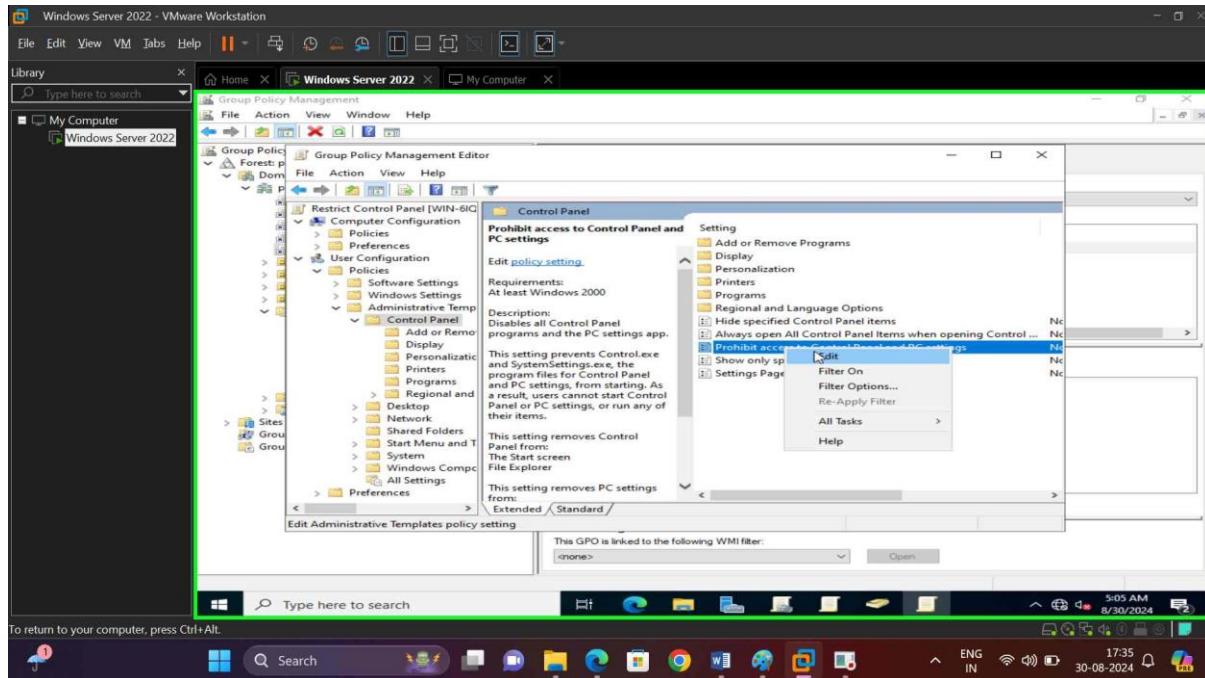
3. Now we can see editor, In these case it is user Configuration then it is policies.



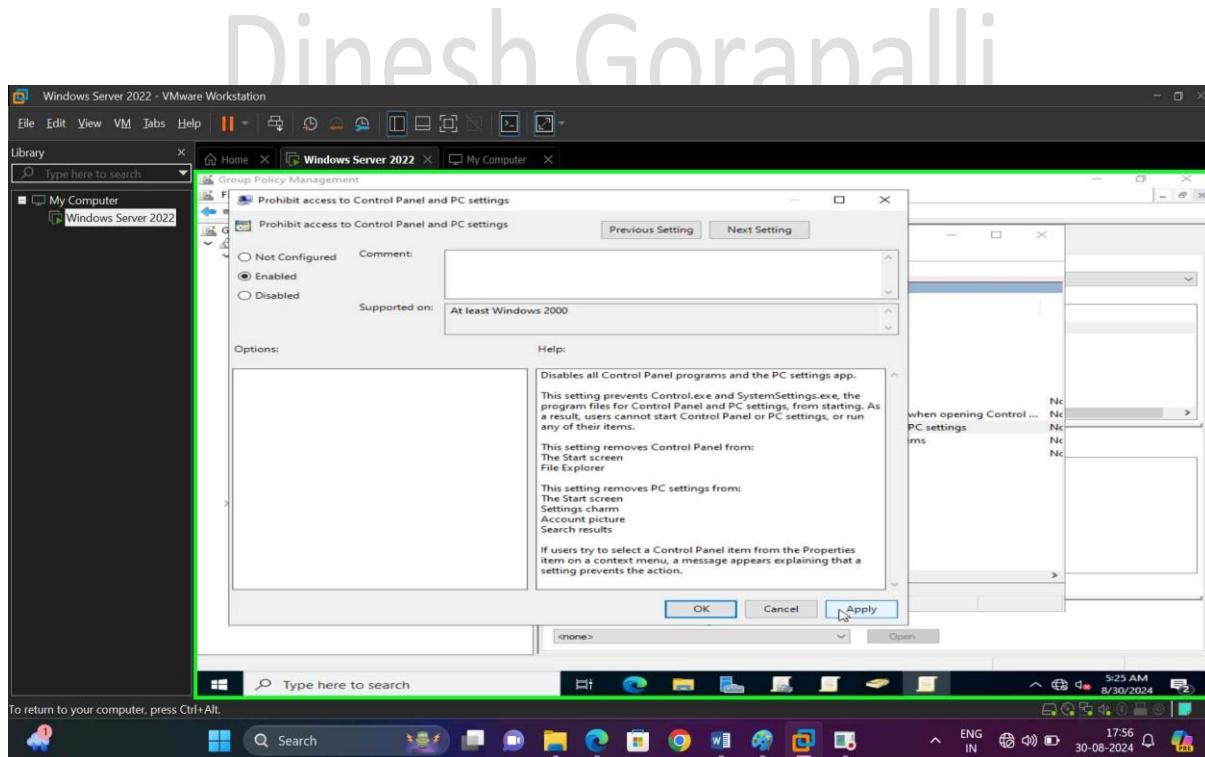
4. Then expand Policies -> Administrative templates ->control Panel. Then choose “prohibit access to control panel and PC settings”

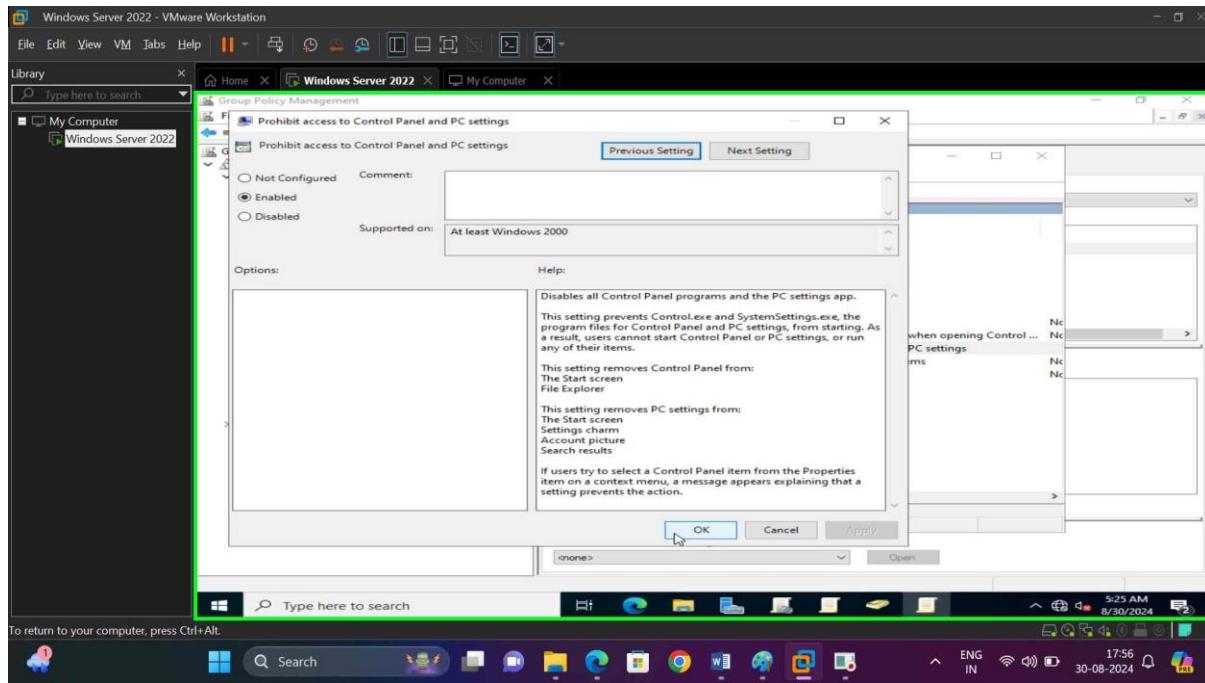


5. Then right click on it, select Edit.



6. Select the Enabled. Then click on apply.

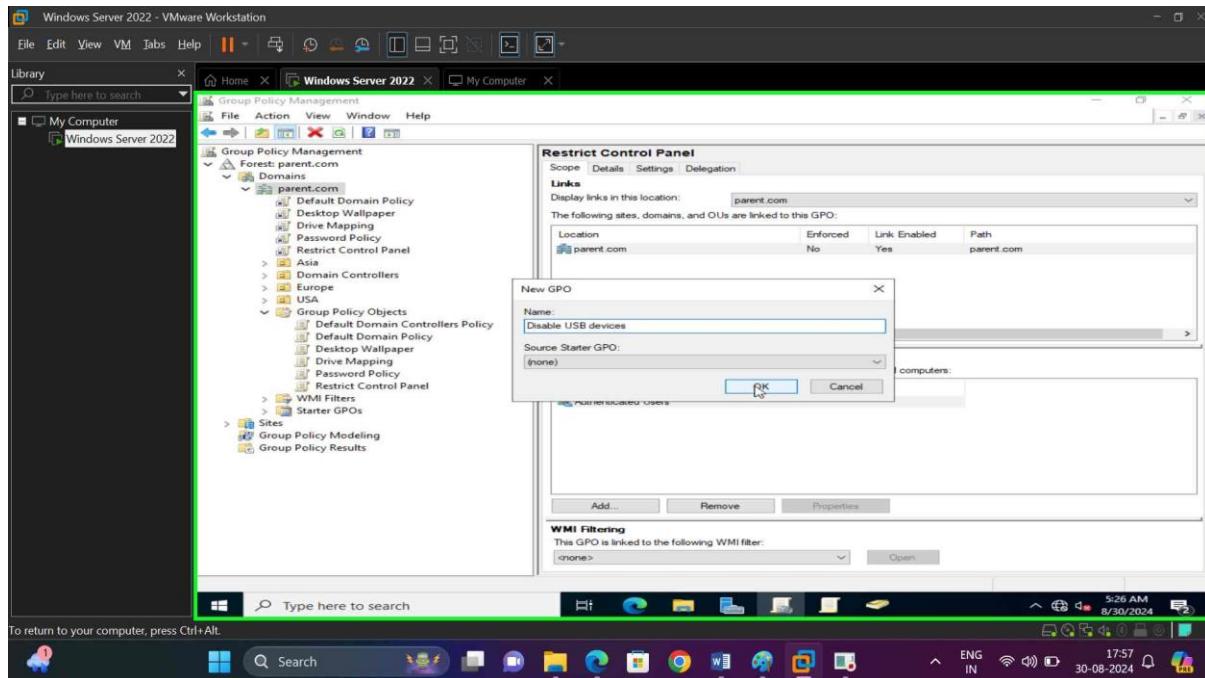




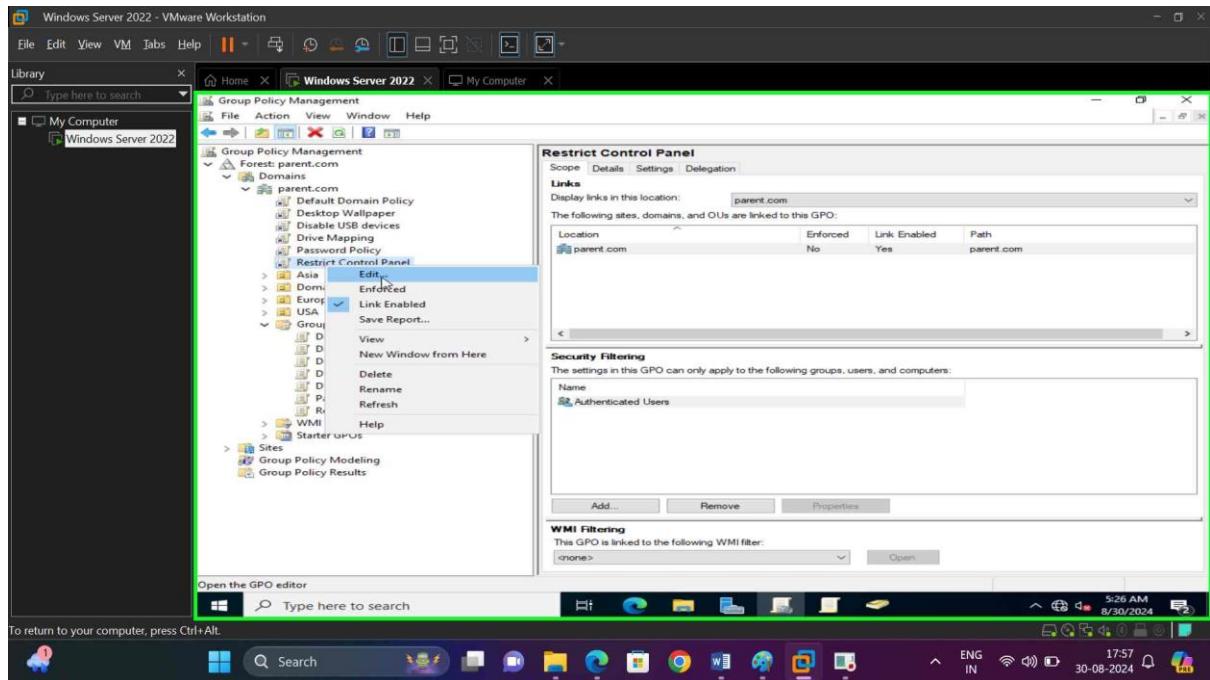
## Group Policy 5: Disable USB Storage.

Prevent users from using USB storage devices.

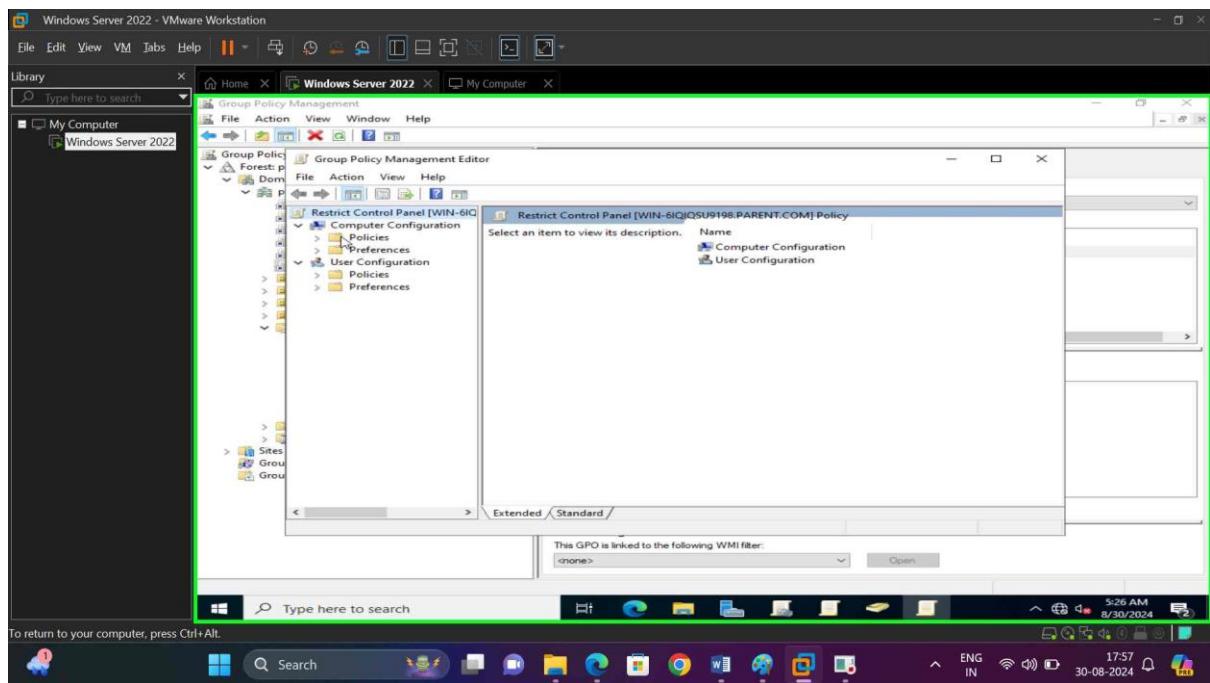
1. Right click on the domain name, select Create GPO, then name it as "Create USB Devices".



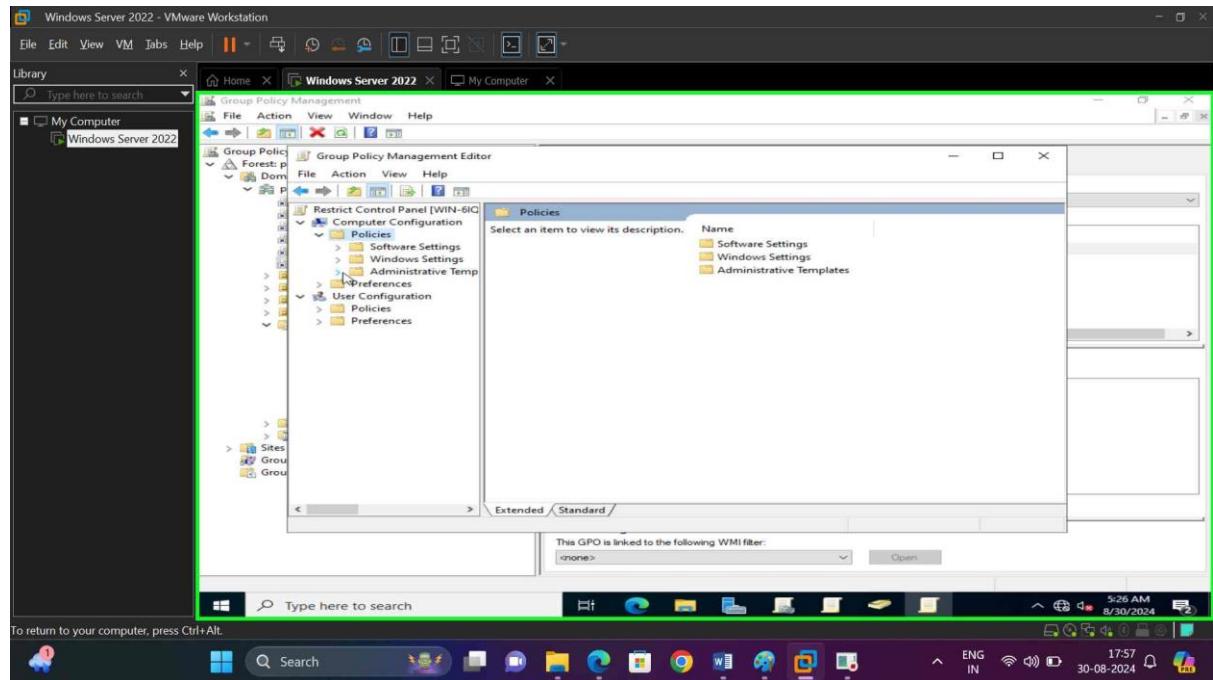
2. Choose the “Disable USB devices” click on Edit.



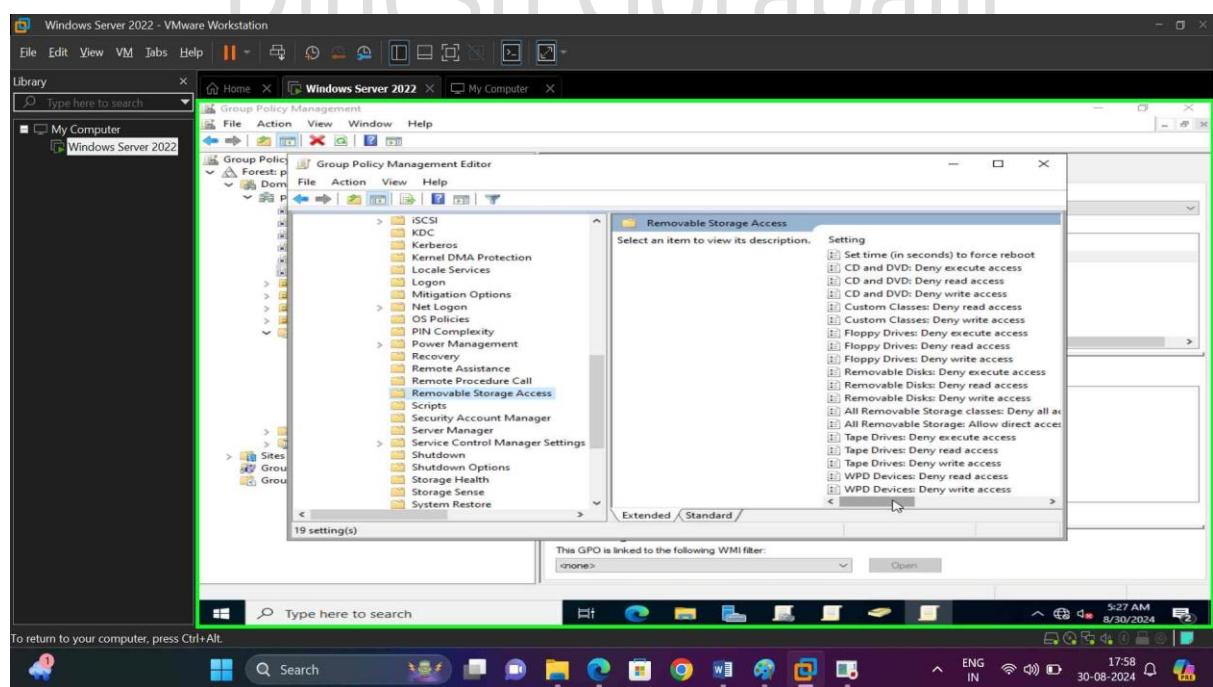
3. Now we can see policy editor. In this case, it is computer configuration, it will policies



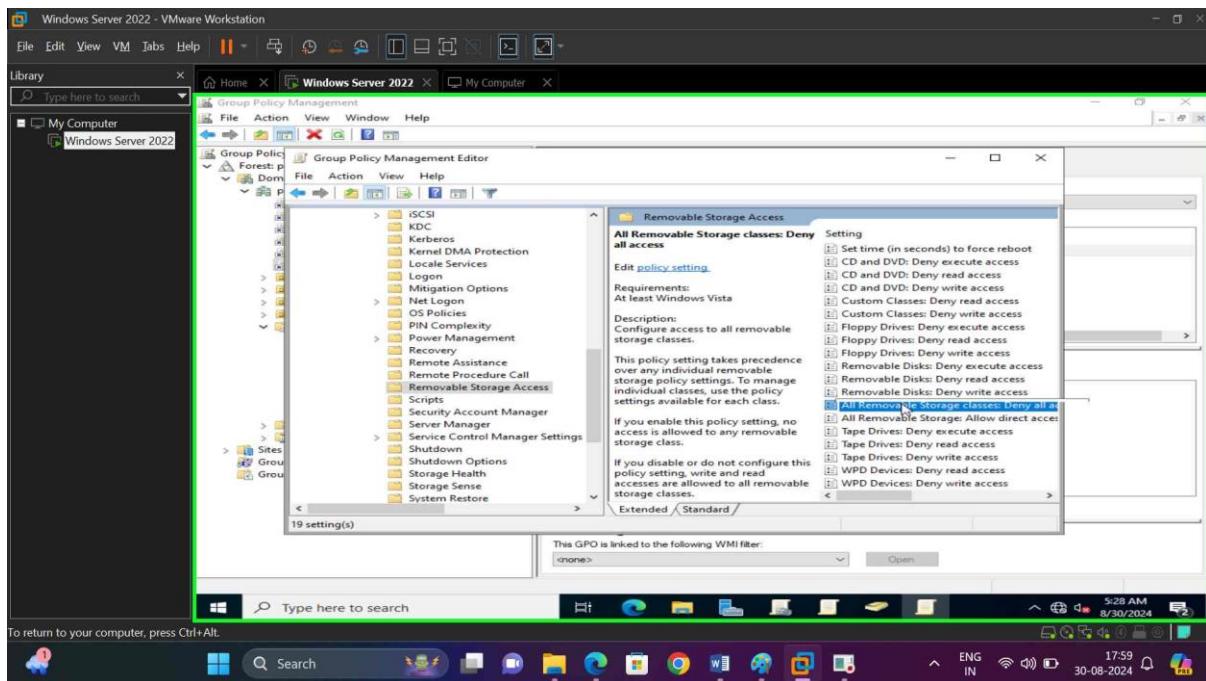
4. Expand Policies -> Administrative Templates -> System



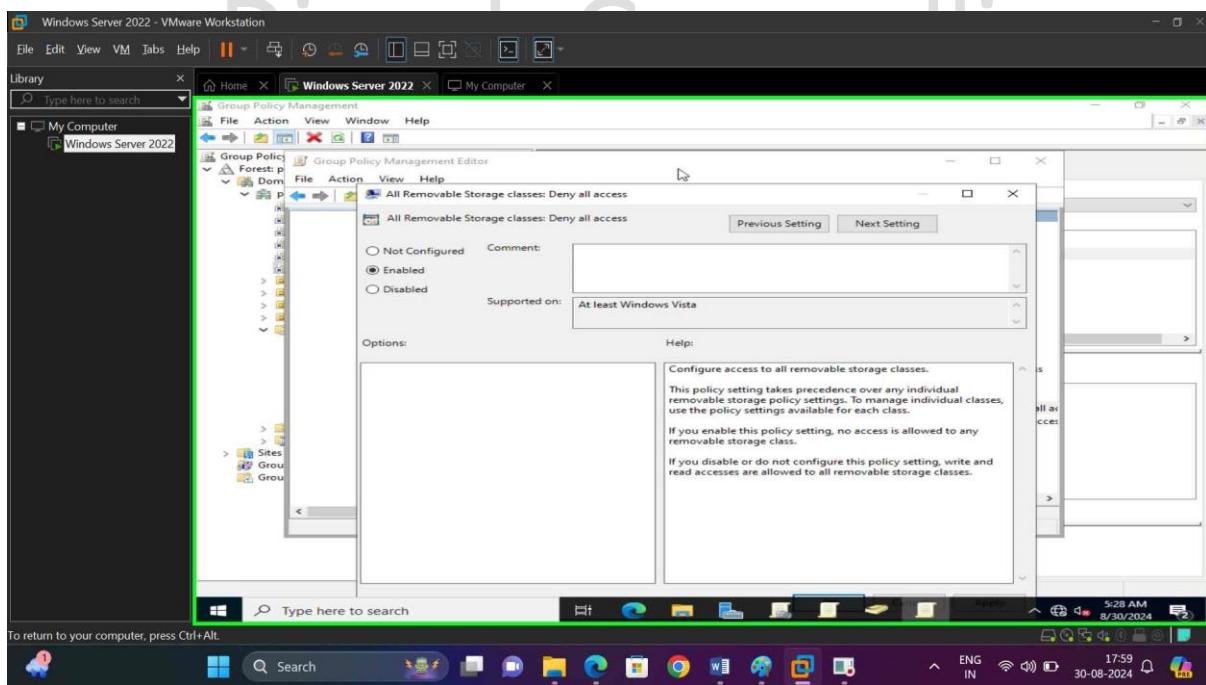
5. In system we see, “removal able Storage Access”



6. Now click on the “All removable Storage classess: Dany all access” click edit.



## 7. Then enable it.



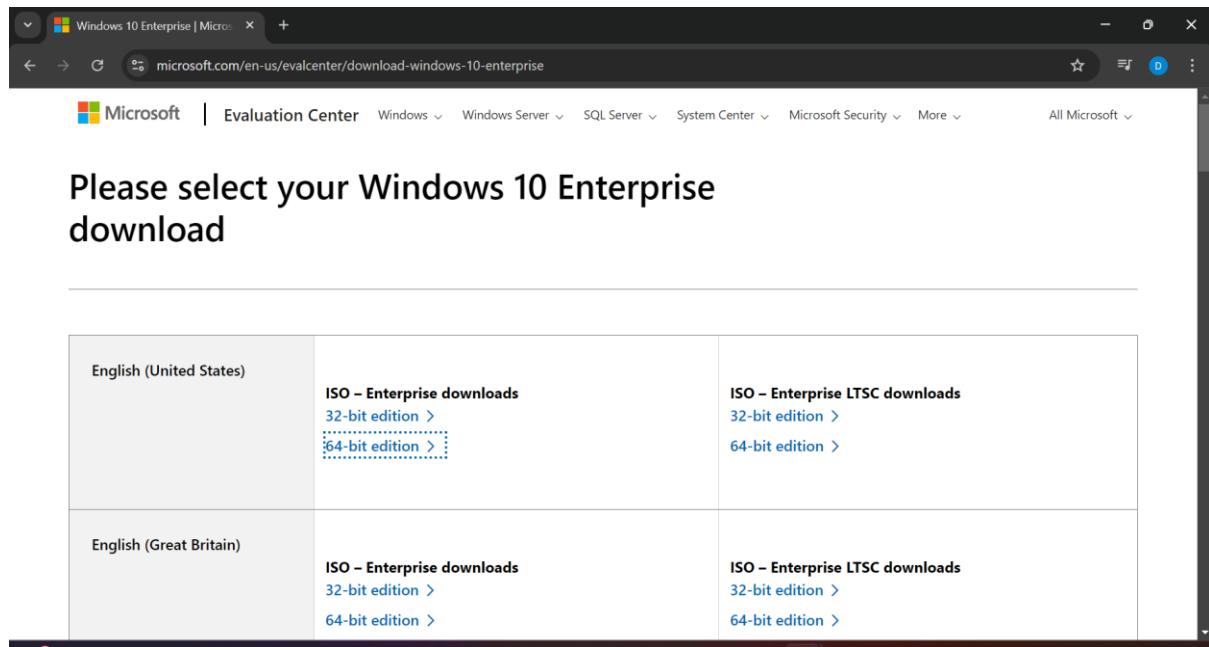
## Installing Client ( Windows 10 Enterprise) 2023 Setup in VMware.

1. Create a VM for Win 10/11 Pro or Enterprise

Link for the ISO download:

<https://www.microsoft.com/en-us/evalcenter/download-windows-10-enterprise>

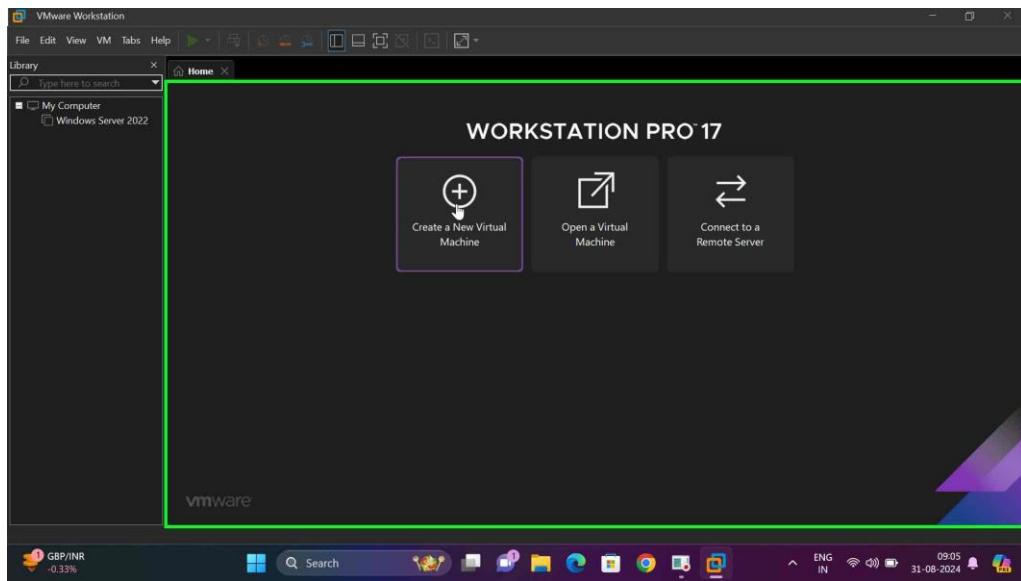
2. After click it, we can see these website select 64-bit edition.



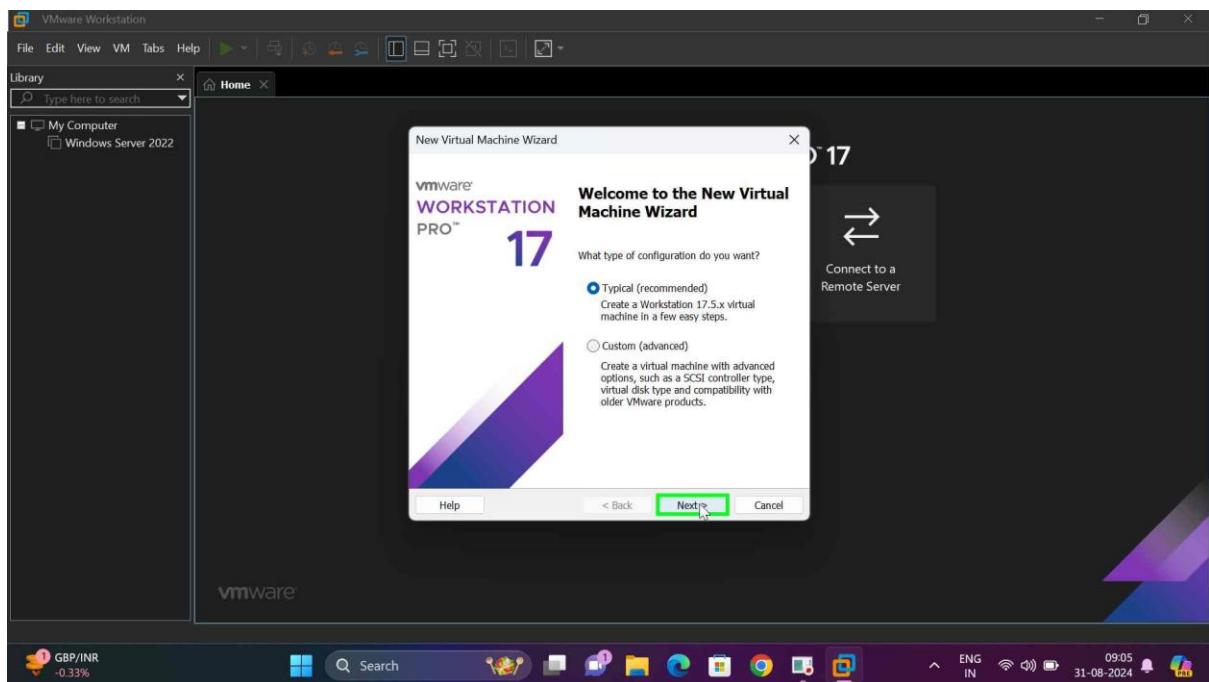
3. Open Vmware software.



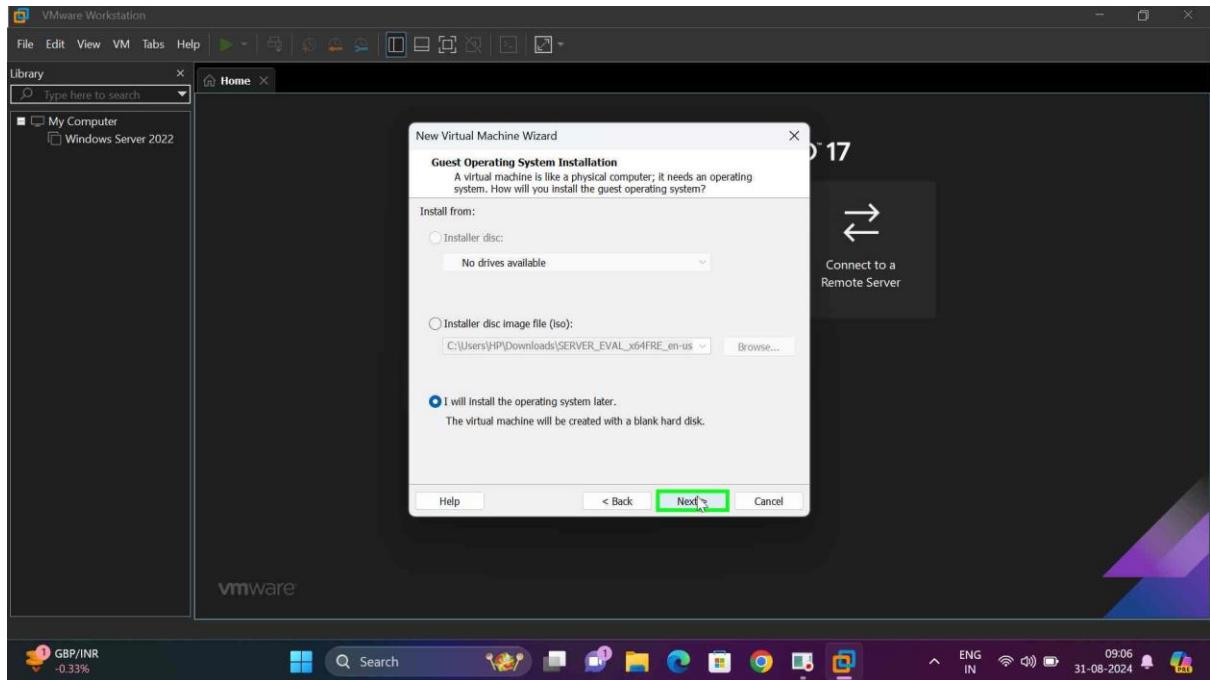
4. Click on the new Virtual Machine.



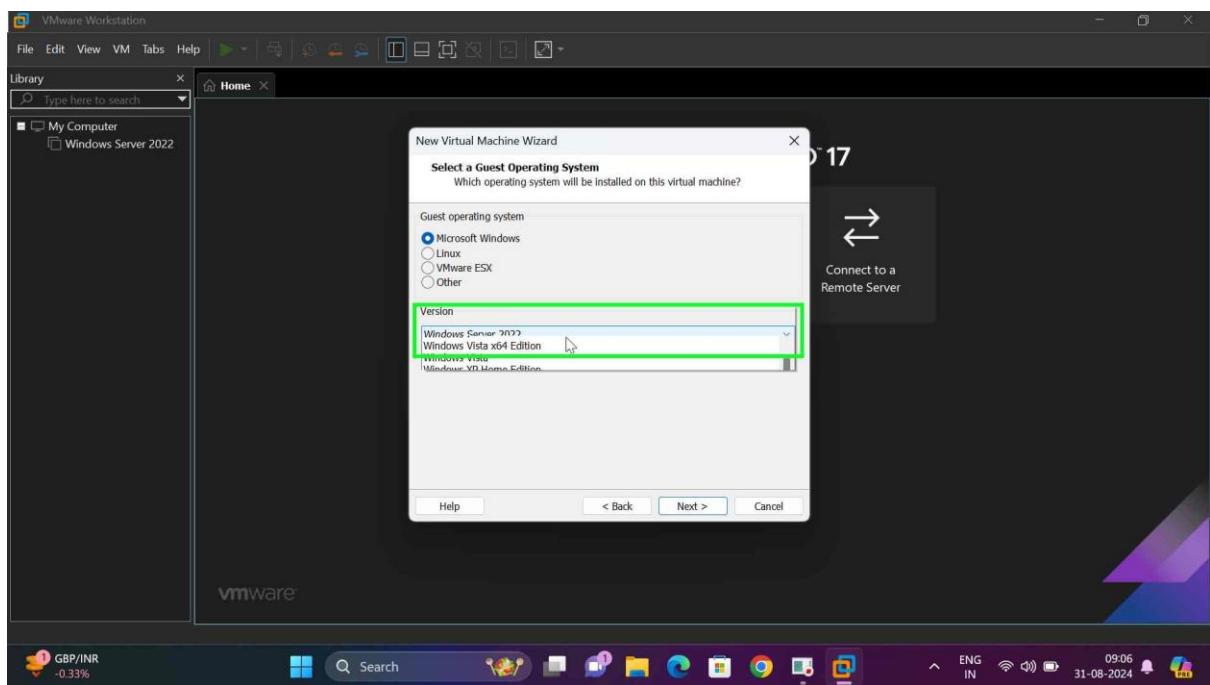
3. After that click next.



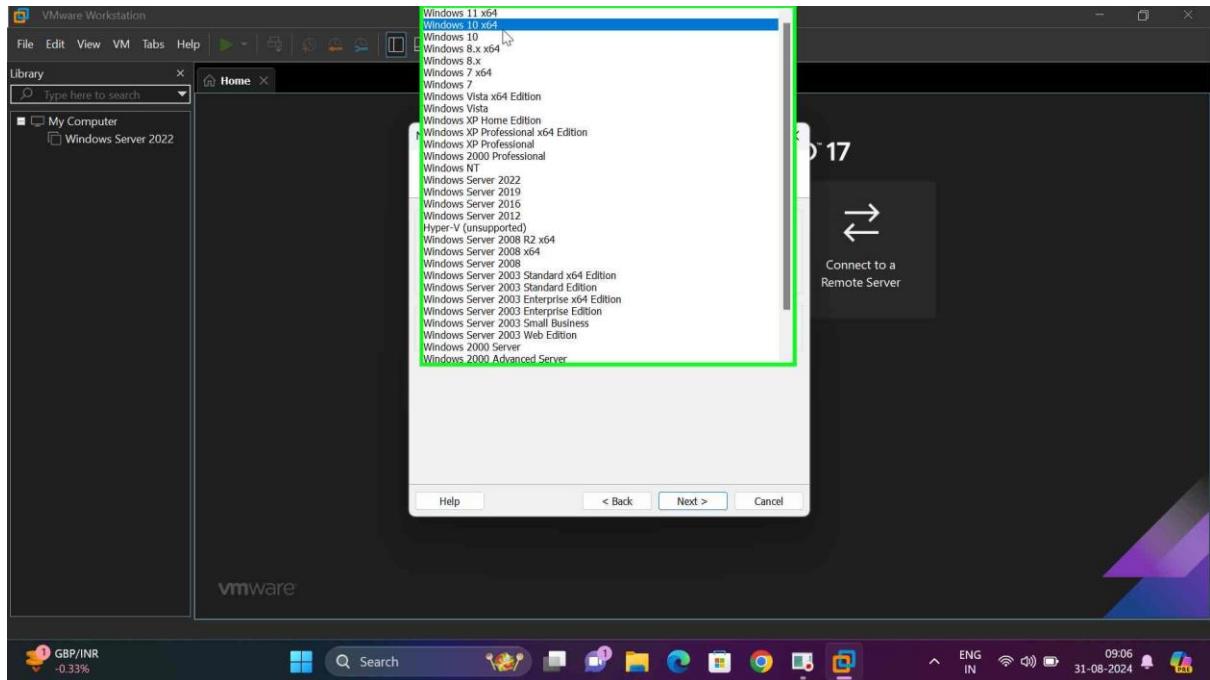
4. Select the "I will Install the operating system later." Then click next.



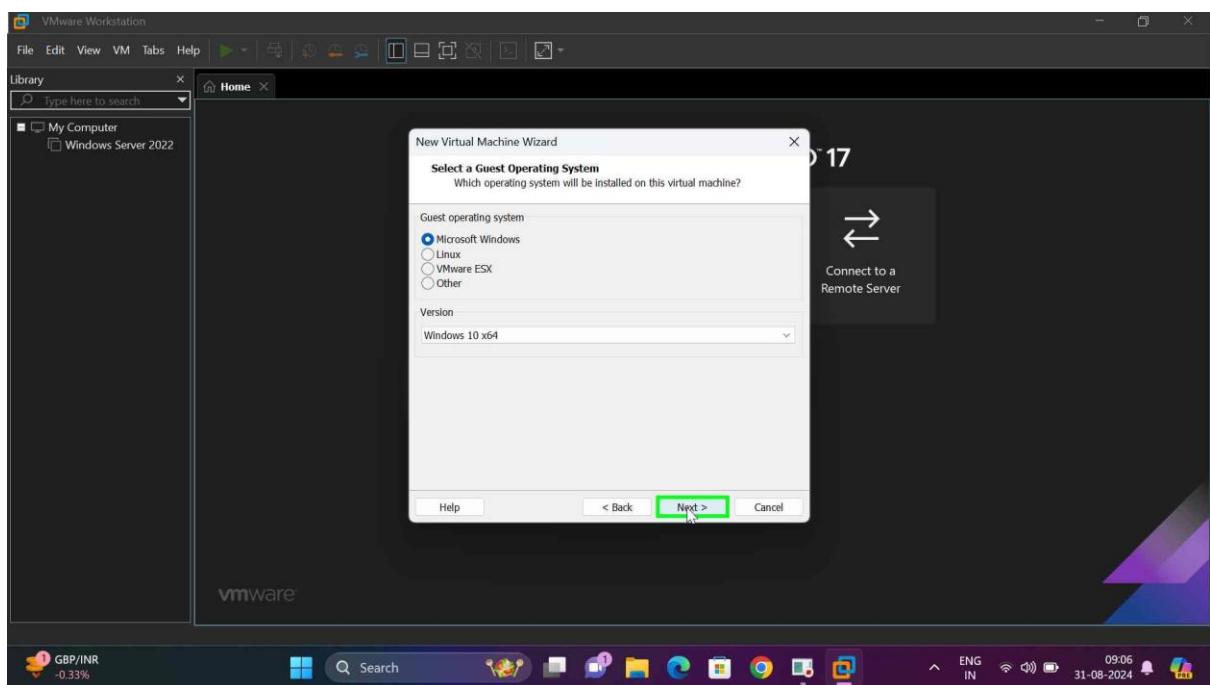
5. Select the OS which have download , here I download the windows I selected the Microsoft Windows.



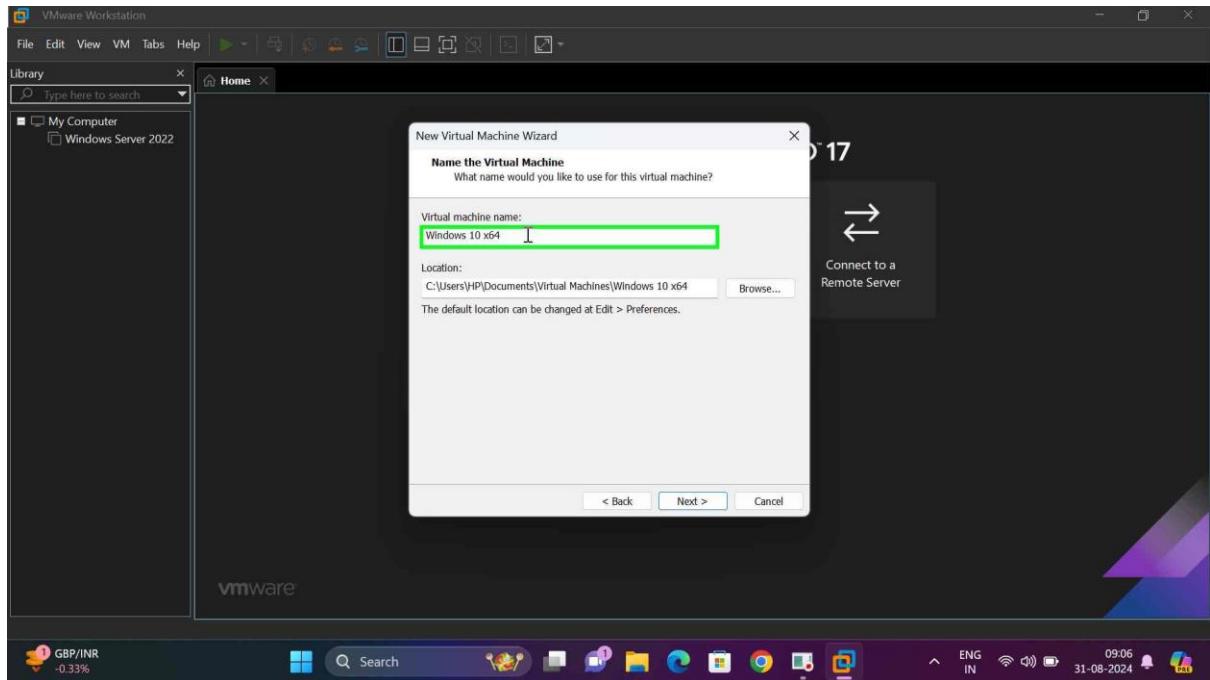
6. Select the version the which version windows enterprise downloaded.



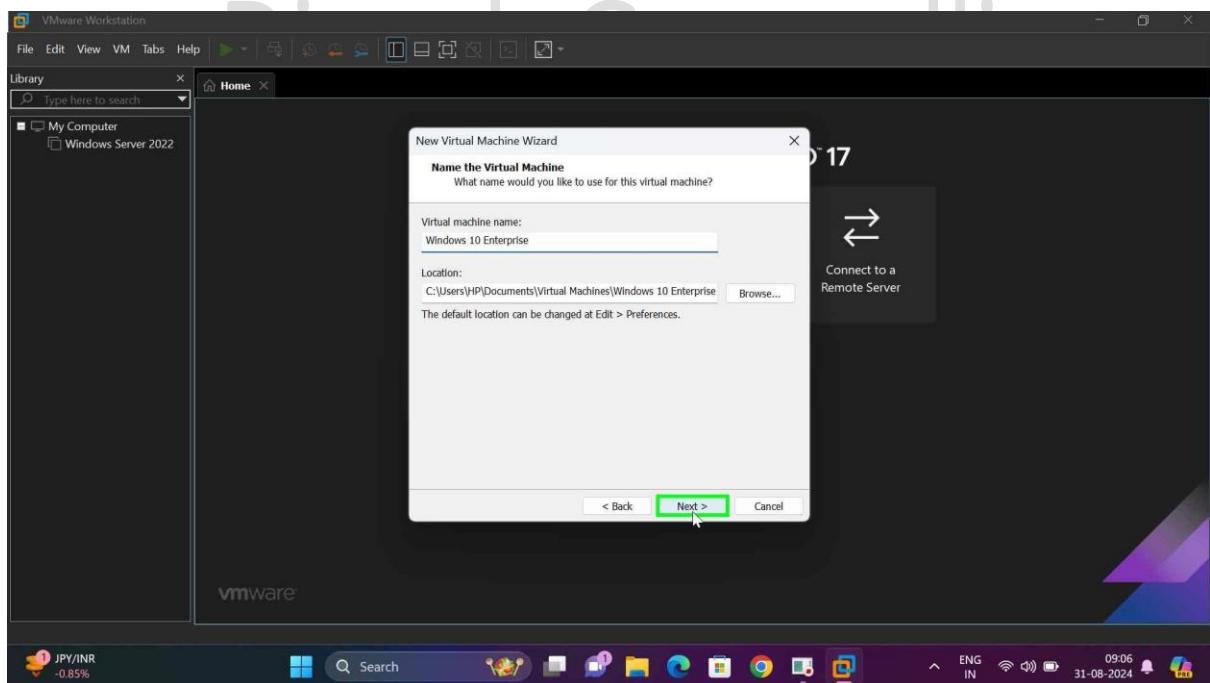
7. Click on the next button.



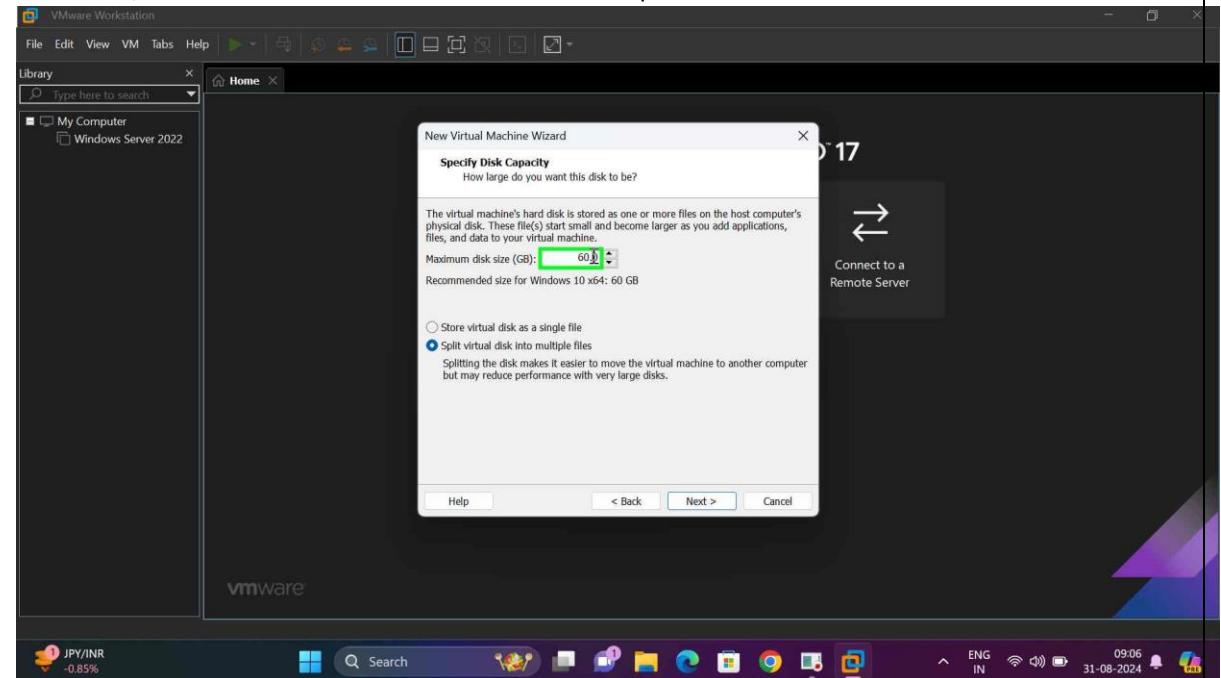
8. Rename the Virtual Machine name.



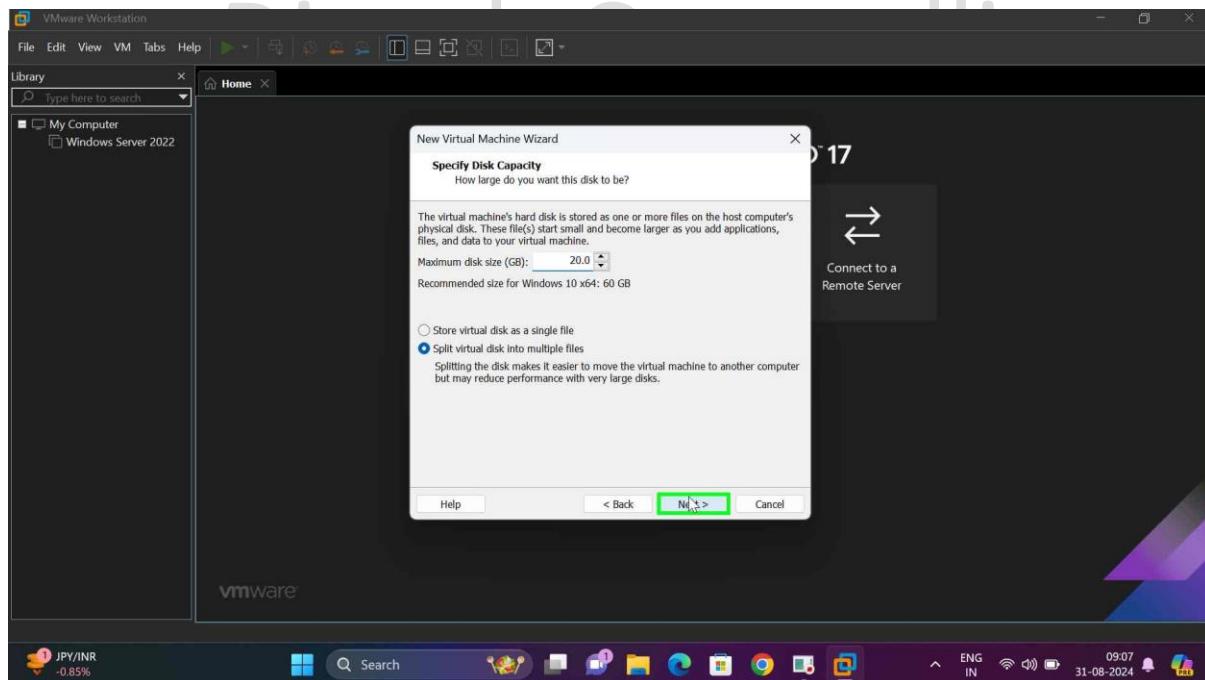
9. Here I put name as “Windows 10 Enterprise” and click the next.



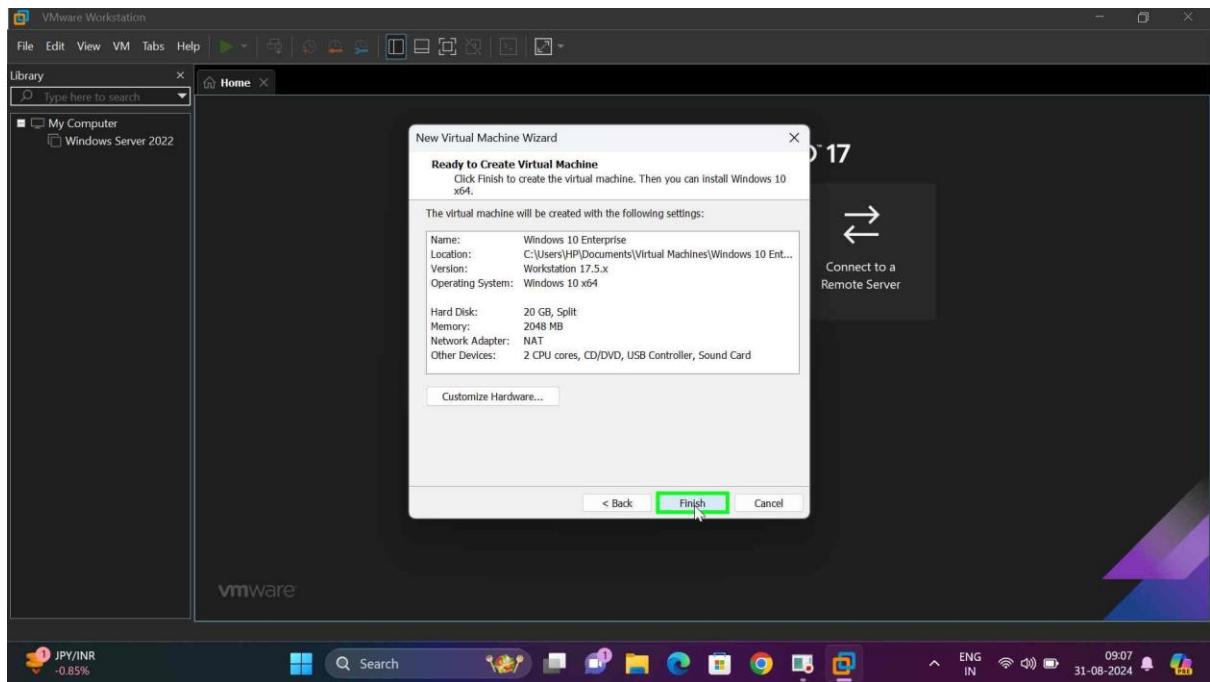
10. After that, allocate some disk size before. After if required it can increase.



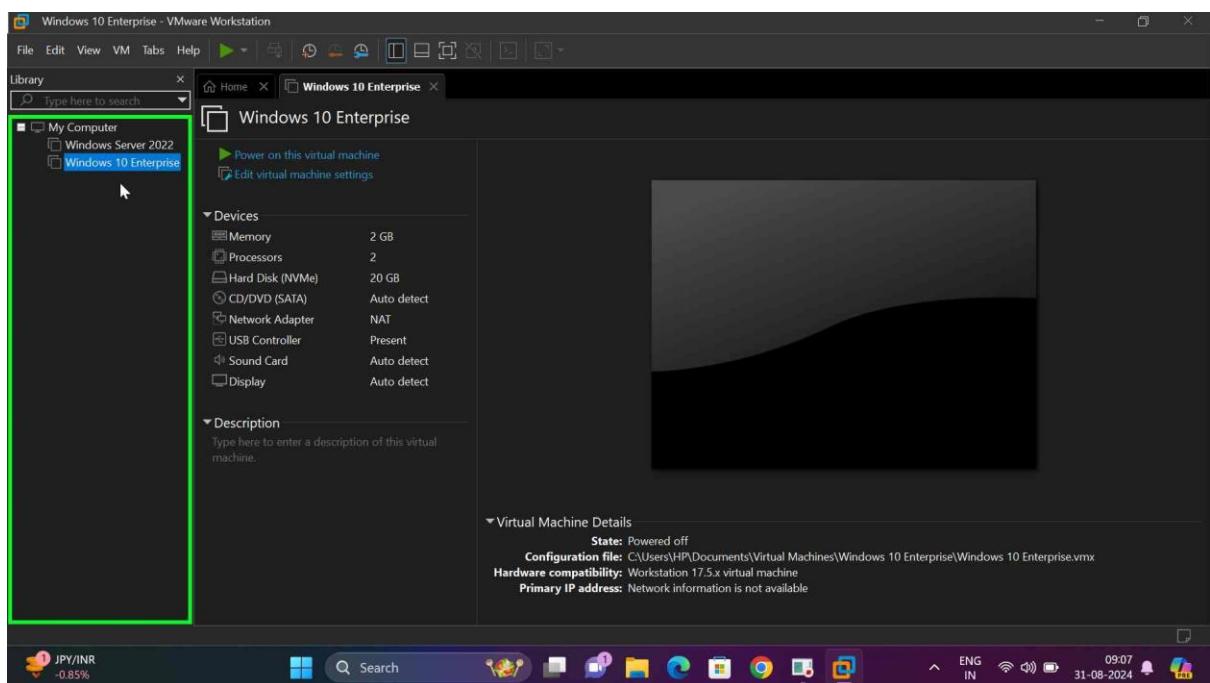
11. Here I have put disk size as 20 GB and click next button.



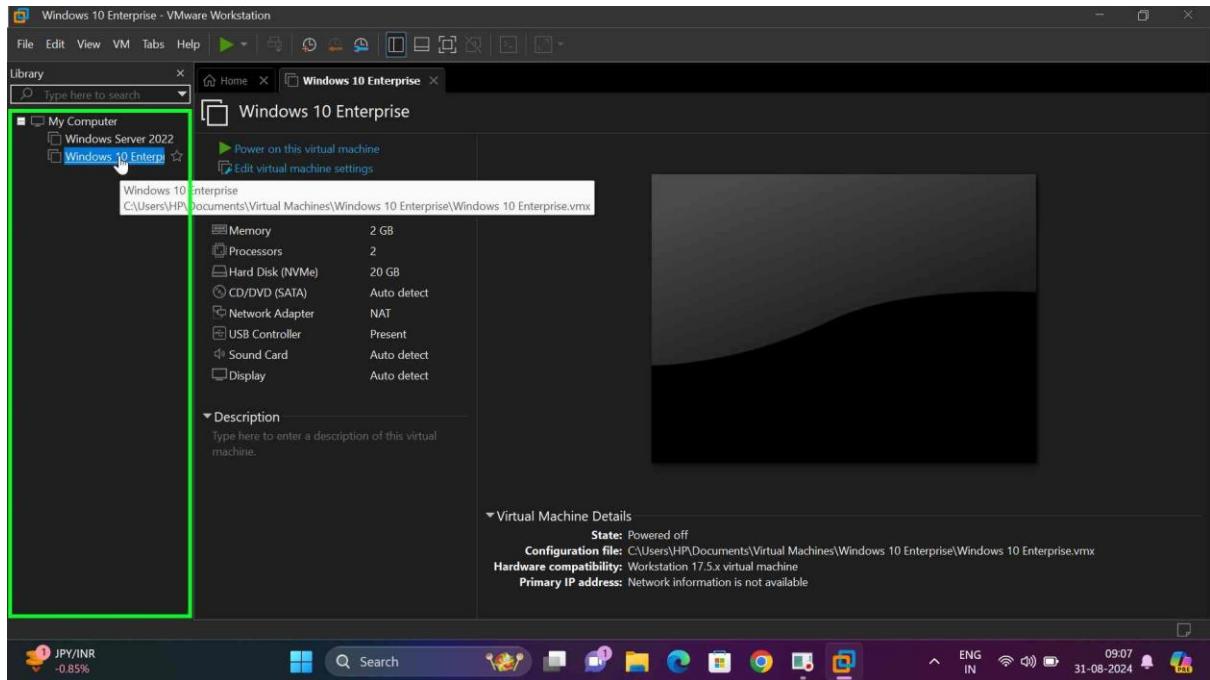
12. Then click the finish button.



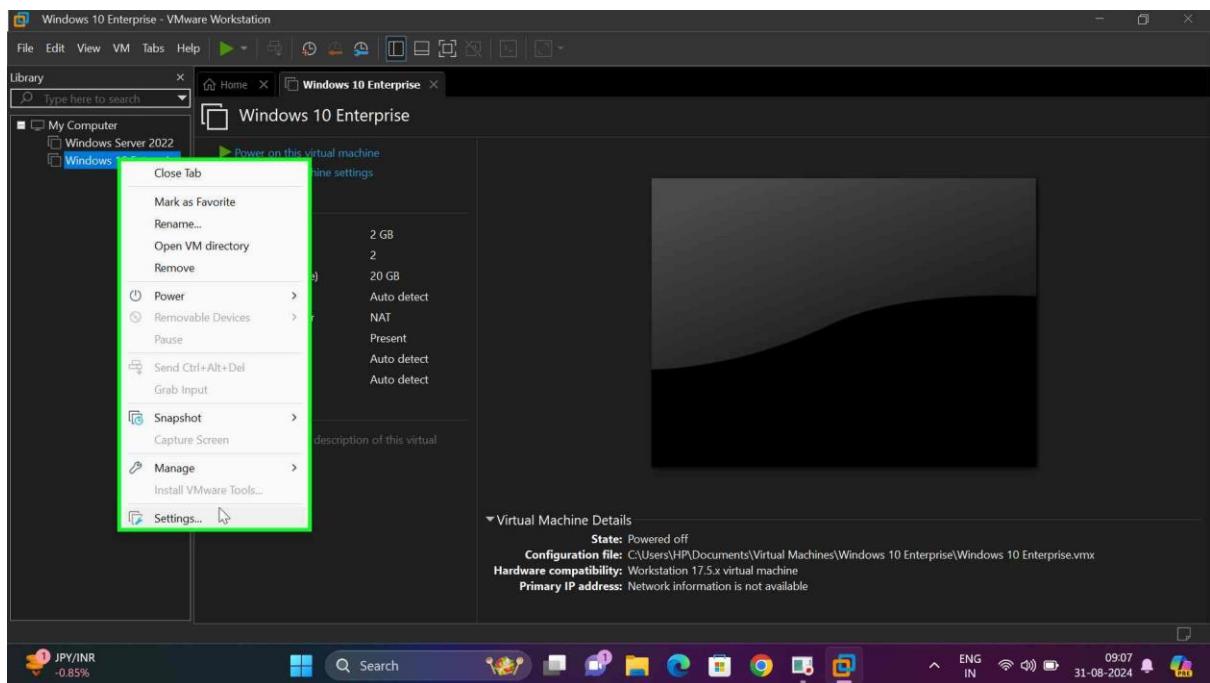
13. Now, you can see Window 10 Enterprise in VMware Desktop.



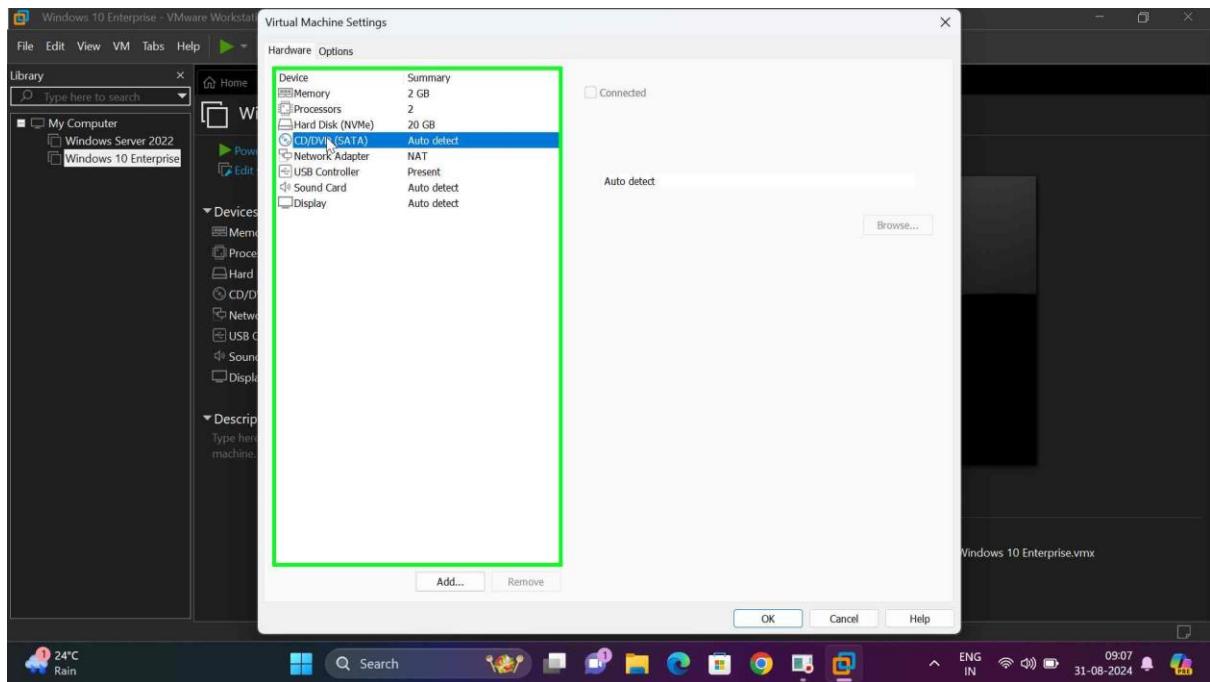
14. Select the client desktop which Window enterprise and right click on it.



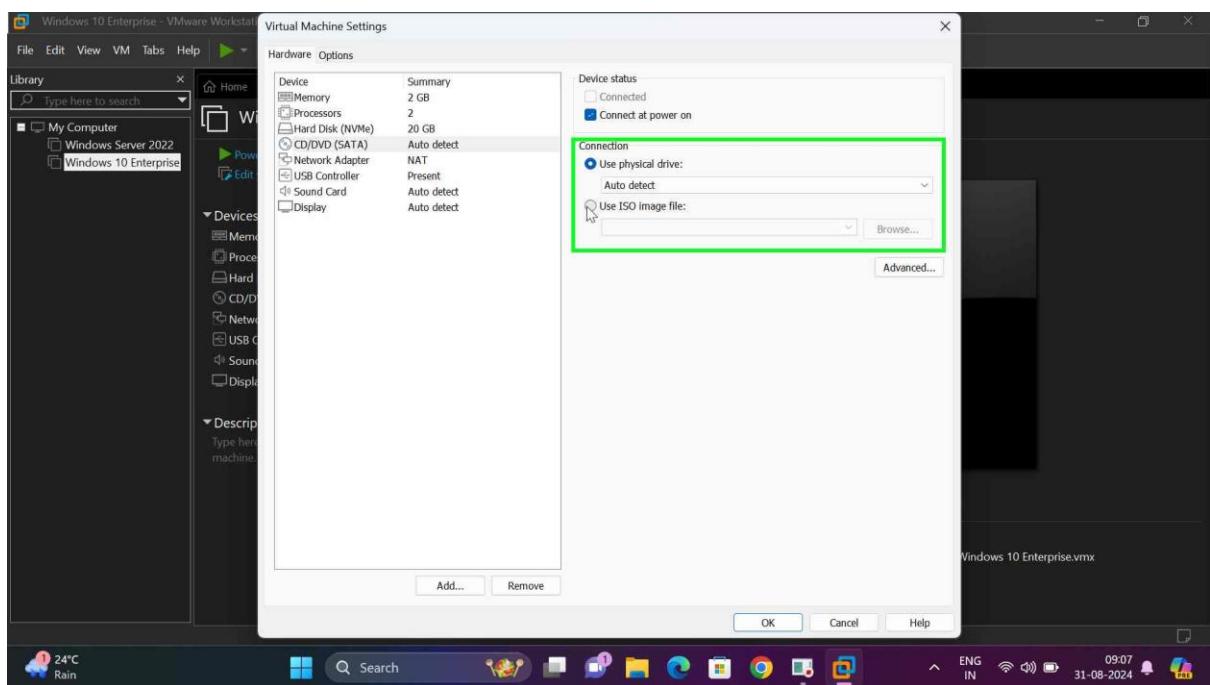
15. Select the settings to import the image of window 10 enterprise OS.

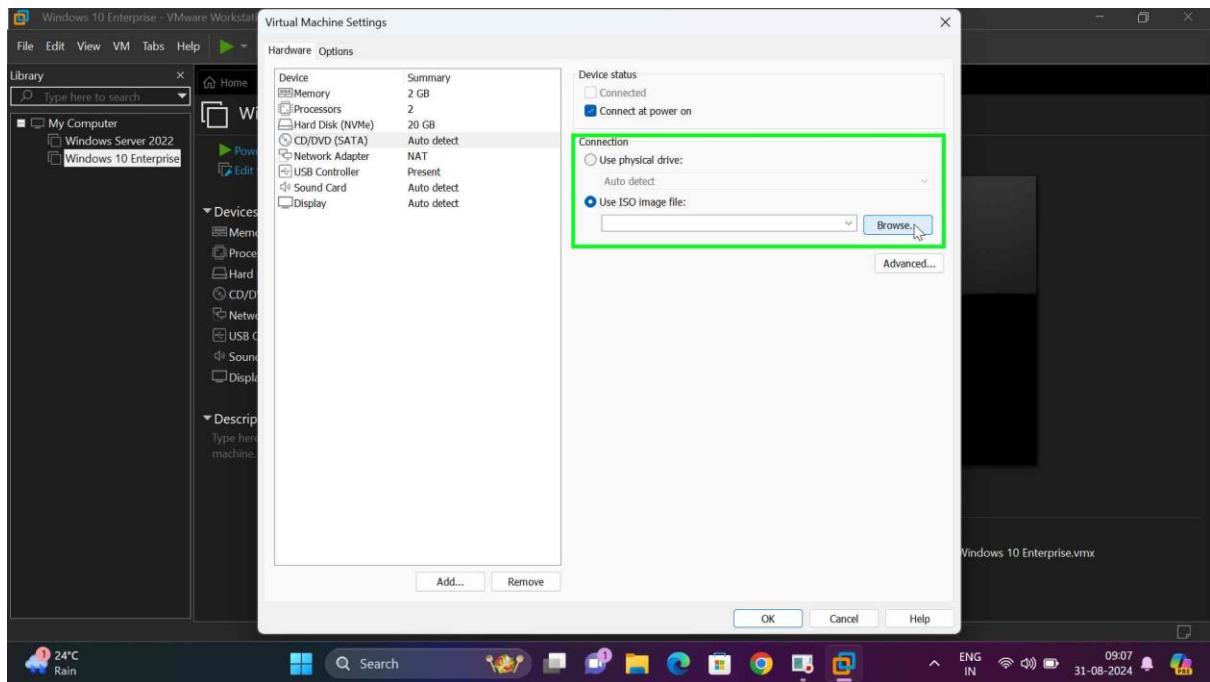


16. Select the CD/DVD(SATA) and double click on it.

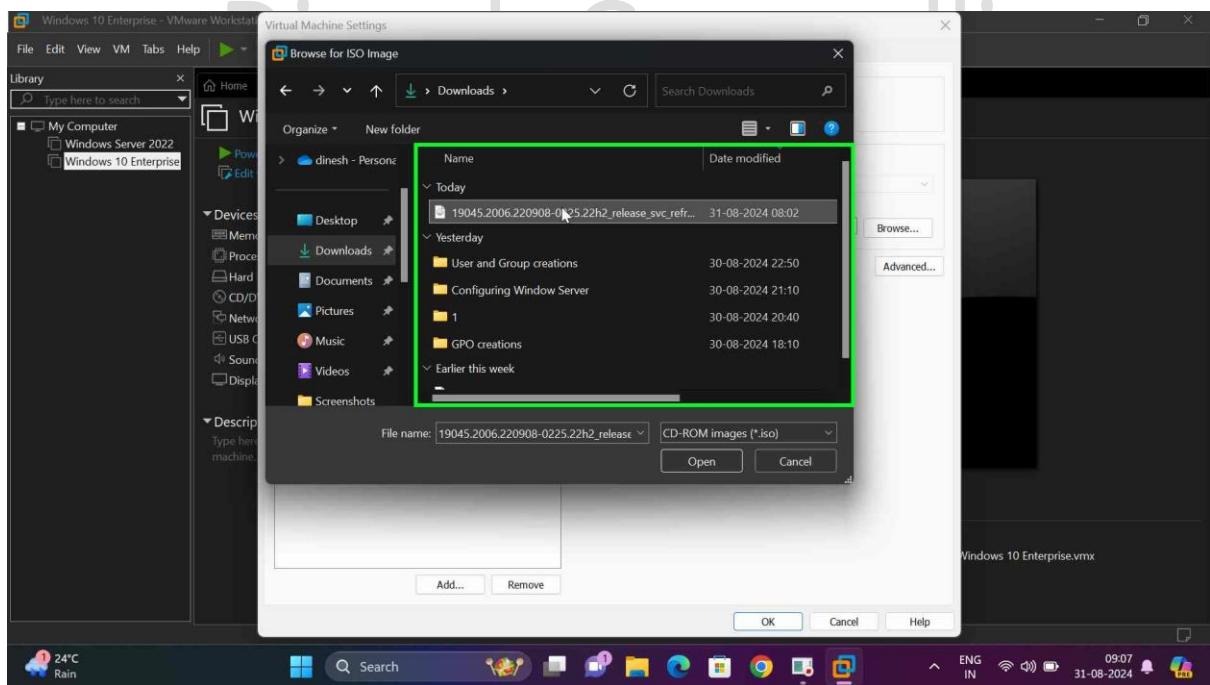


17. Unselect use physical drive, instead select “Use ISO image file”.

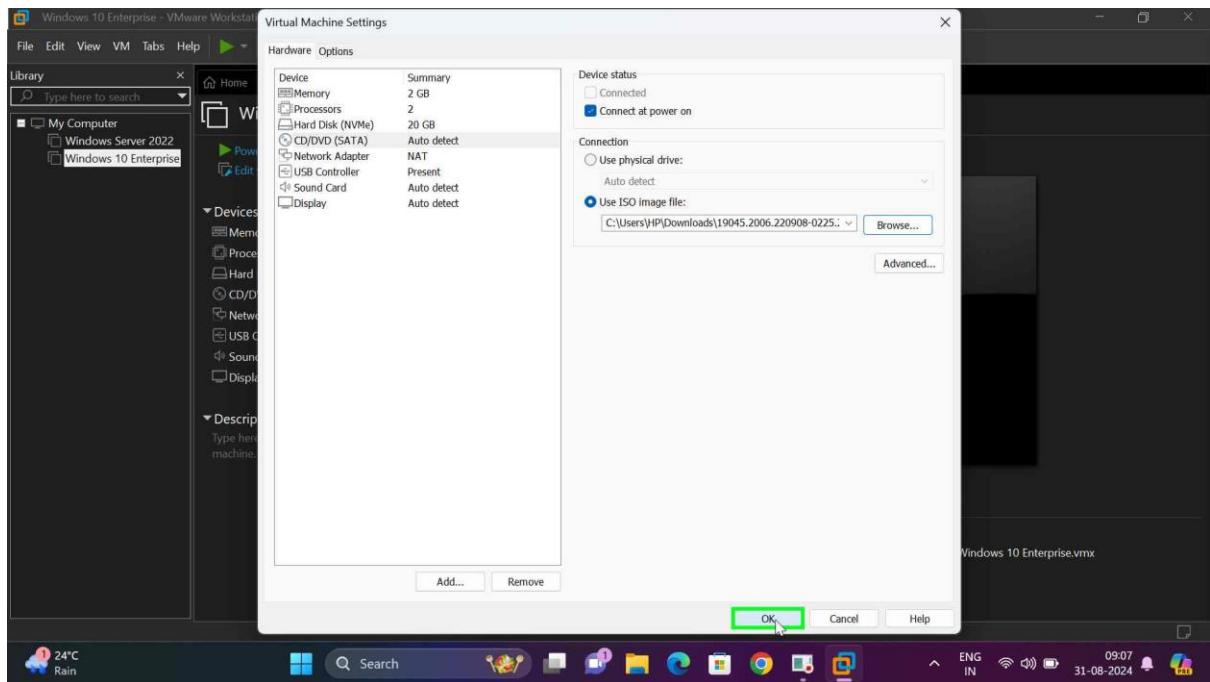




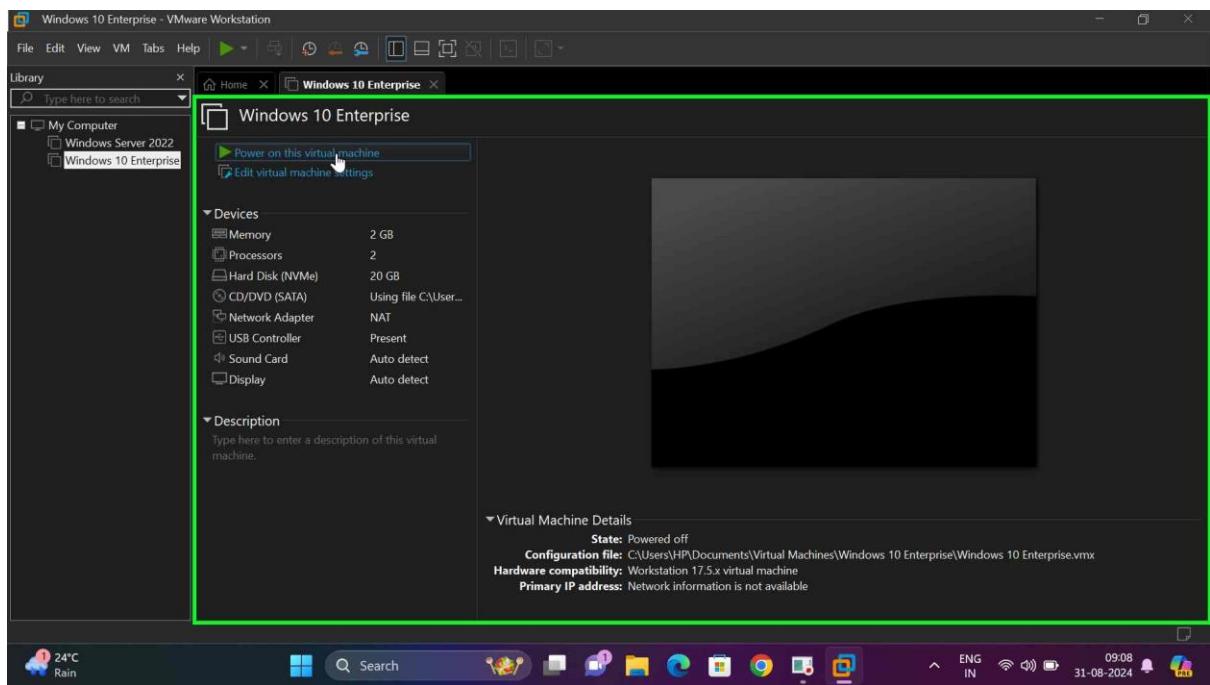
18. Select that image file from your device. And click open.

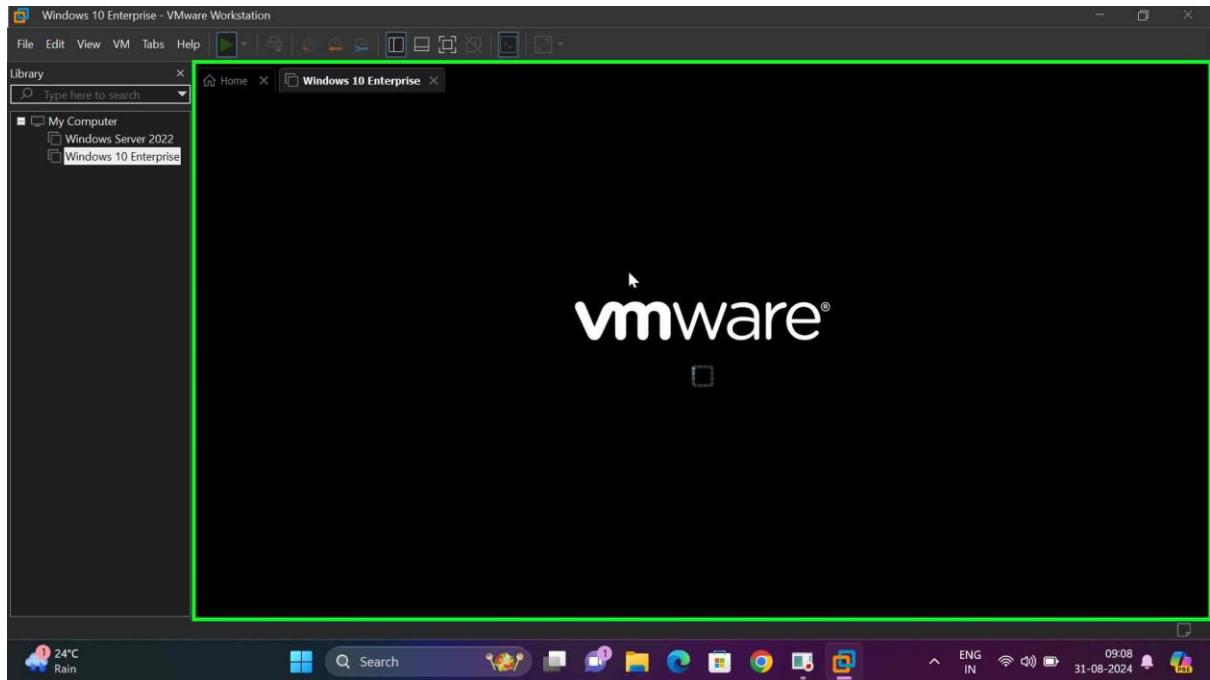


19. Then click the OK button.

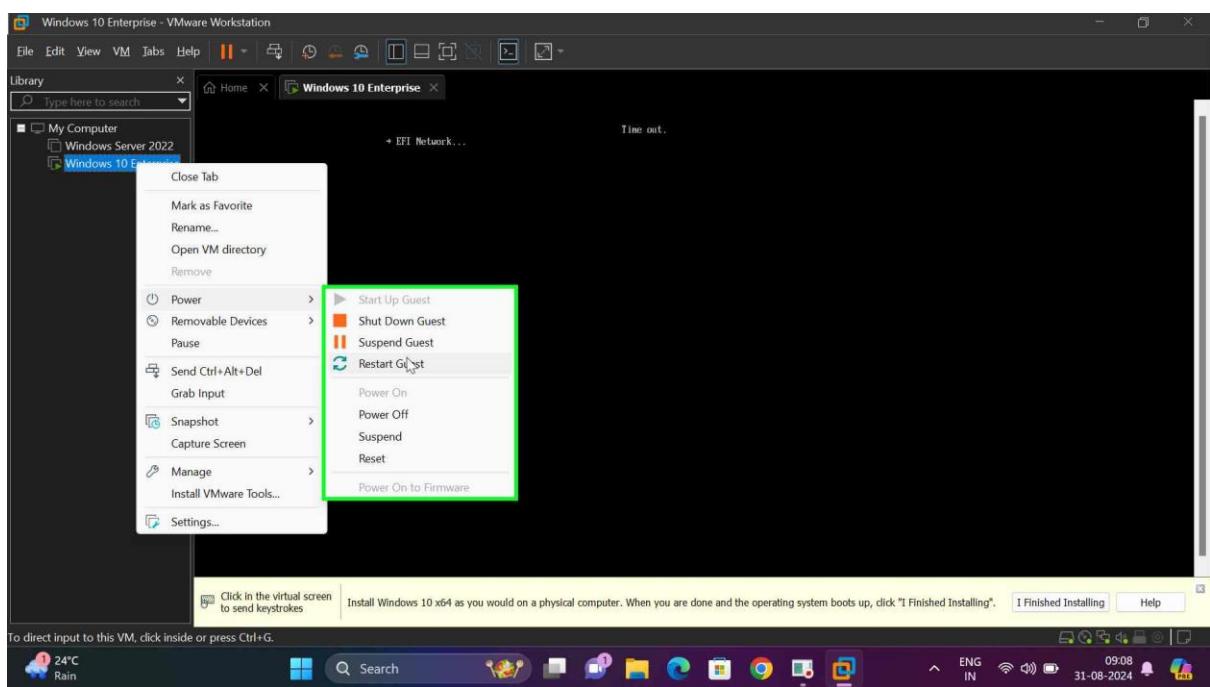


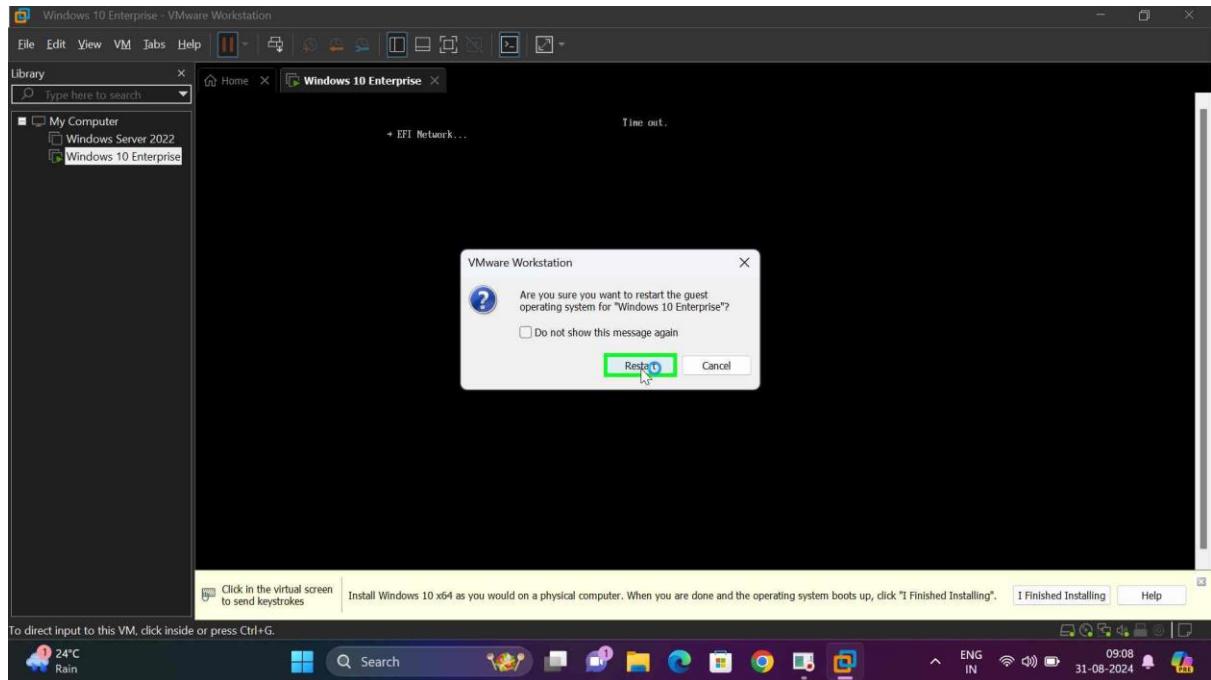
20. After that, “power on the VM Windows 10 Enterprise”.



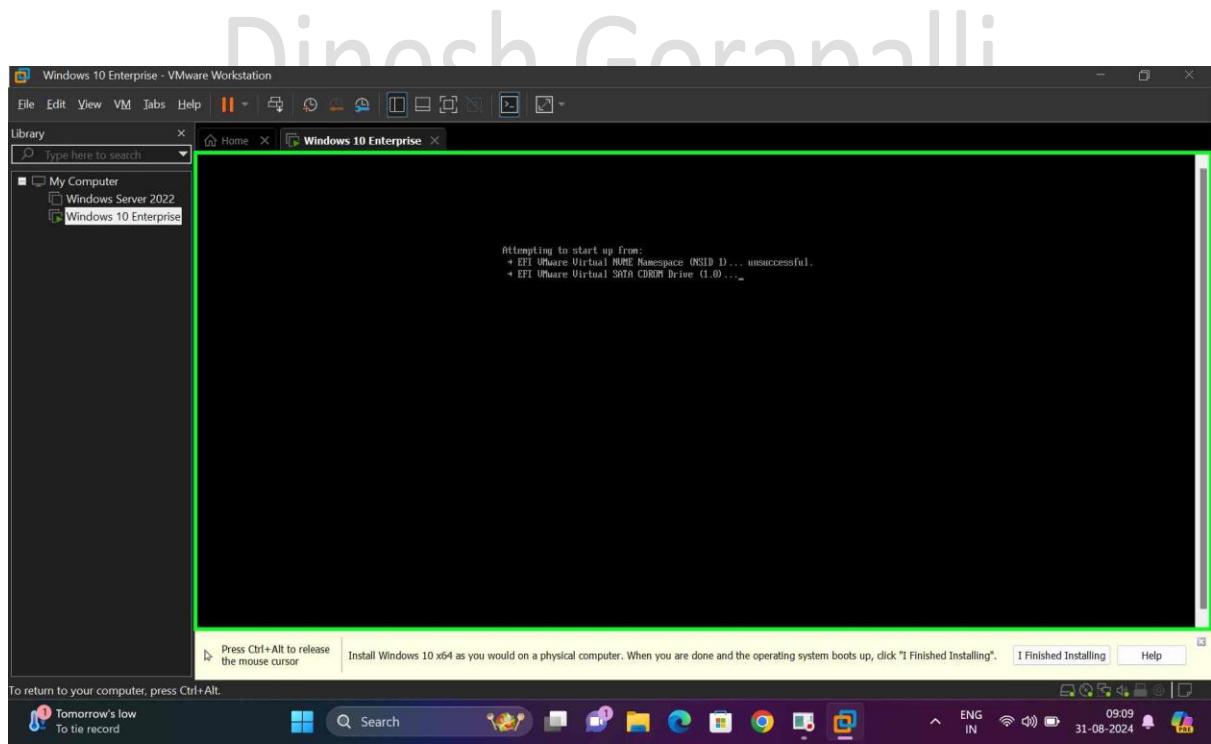


21. Incase if you get this error then go to client desktop name click right click on it , select power click the restart.

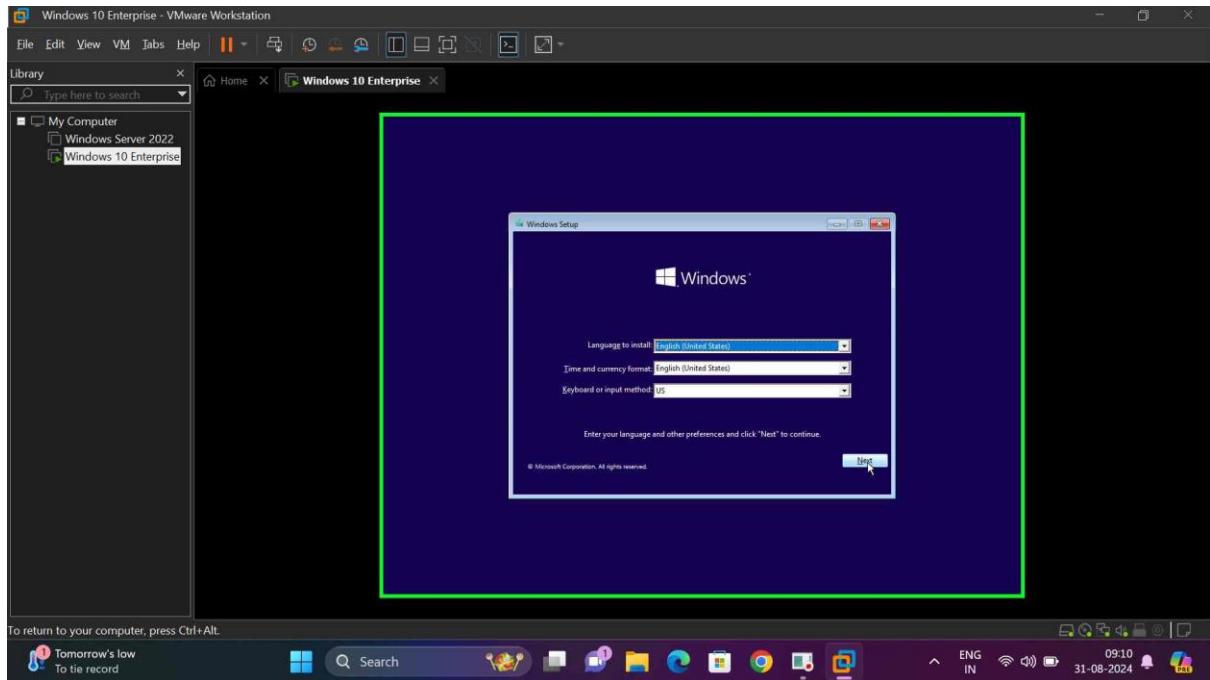




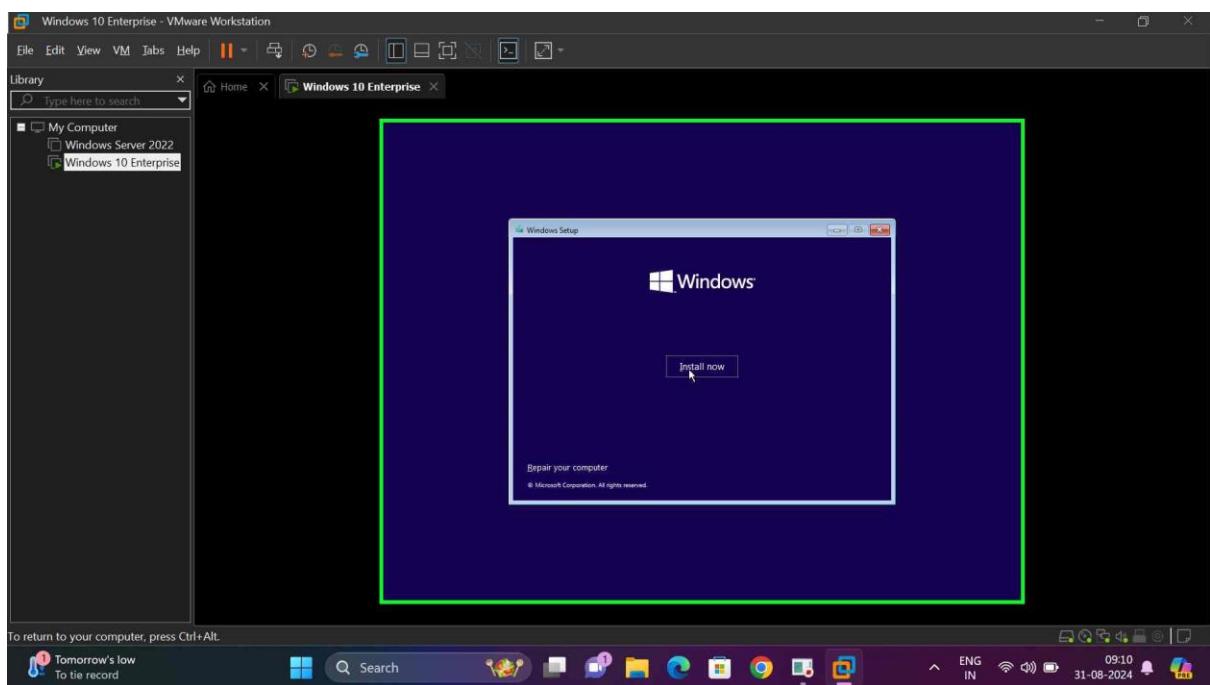
22. When it open immediately click any random key fast. Then will not get an error. It looks like below.



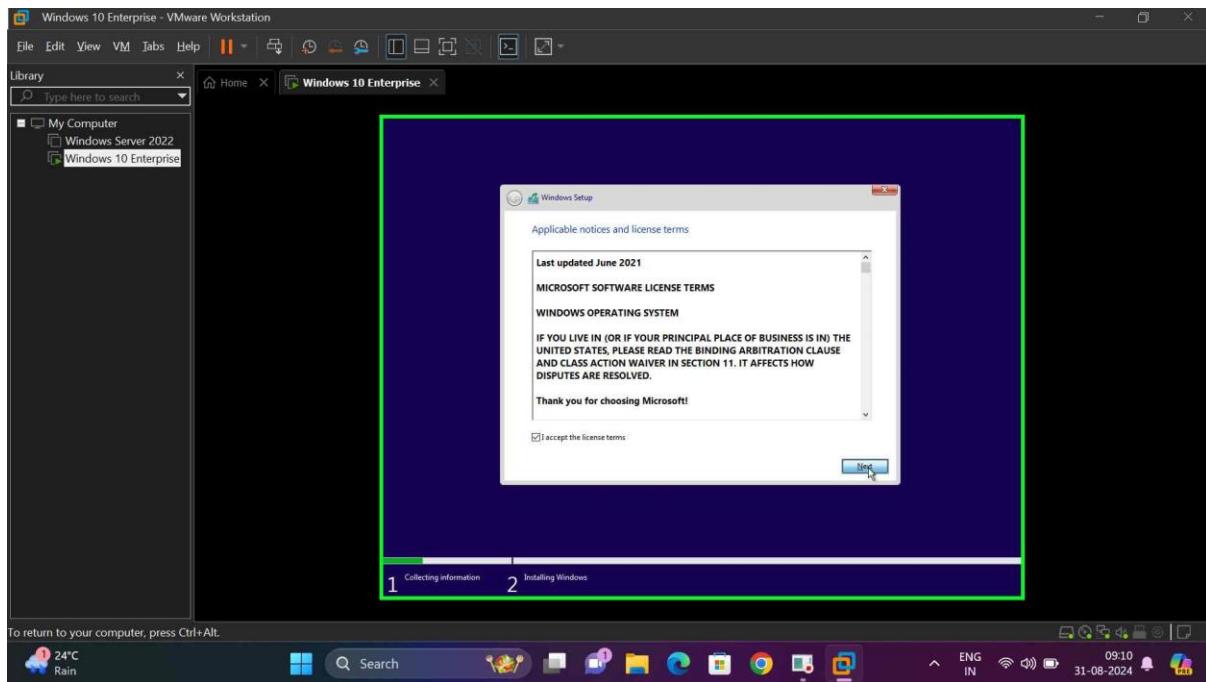
23. Select the language. Click next.



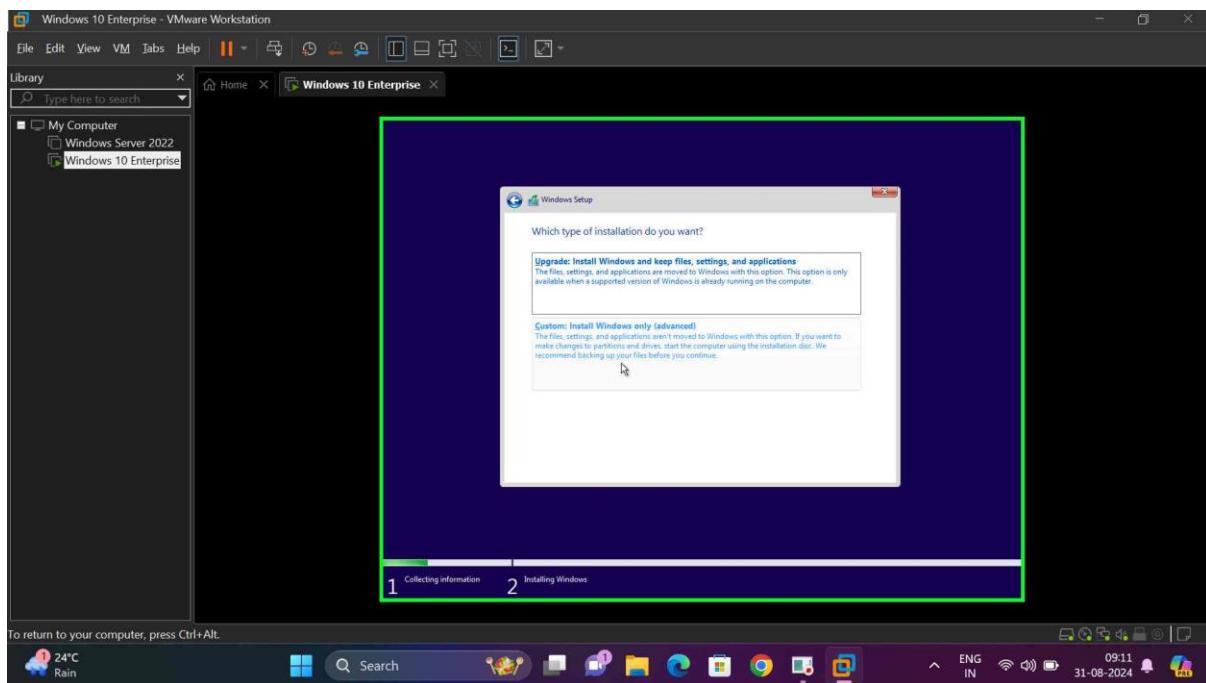
24. Click on install button.



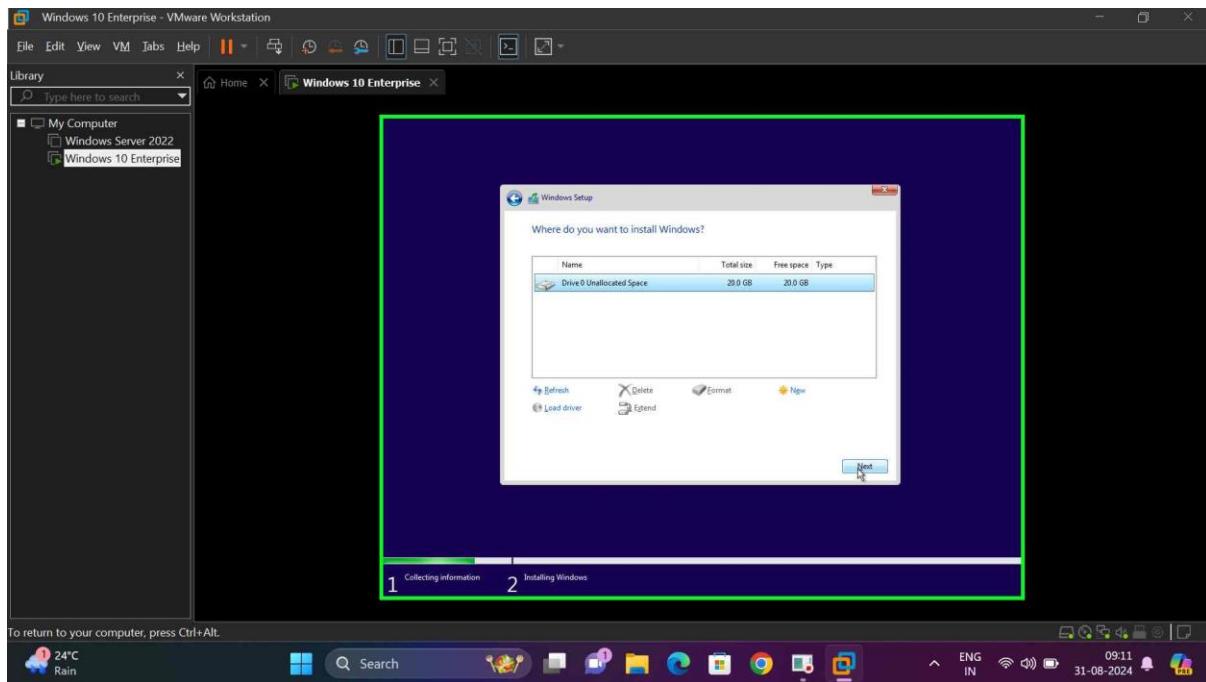
25. Accept the license, click on next.



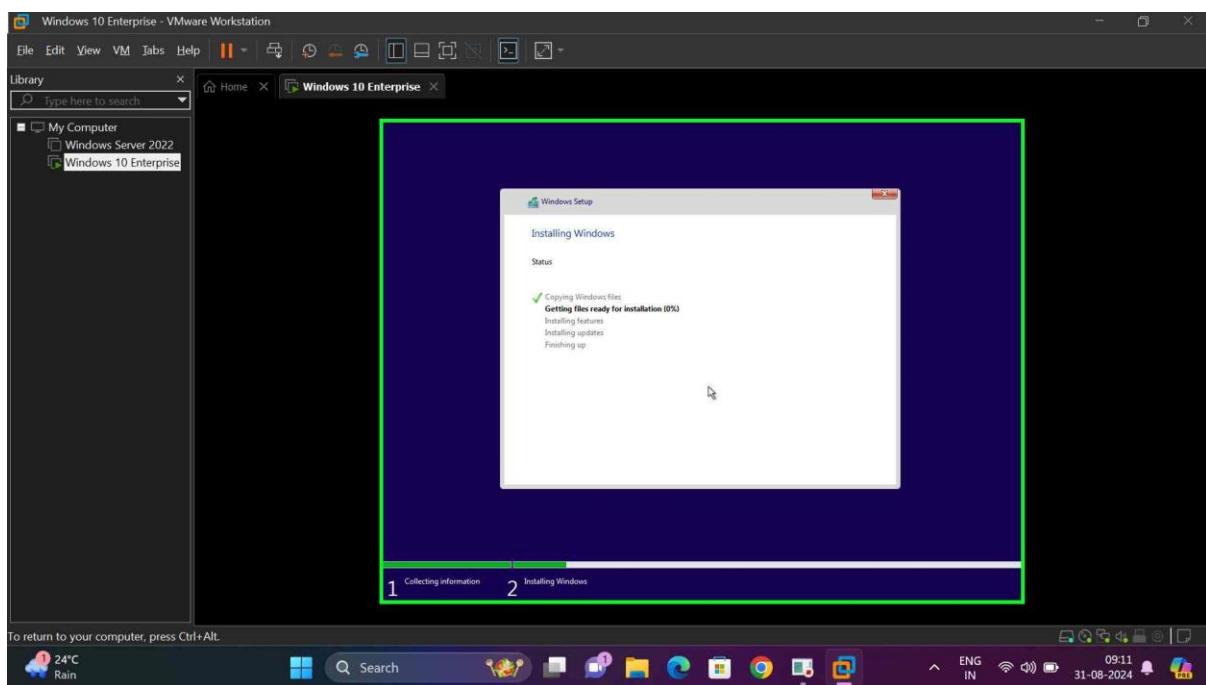
26. Select the “Custom: Install Windows only (advanced)”

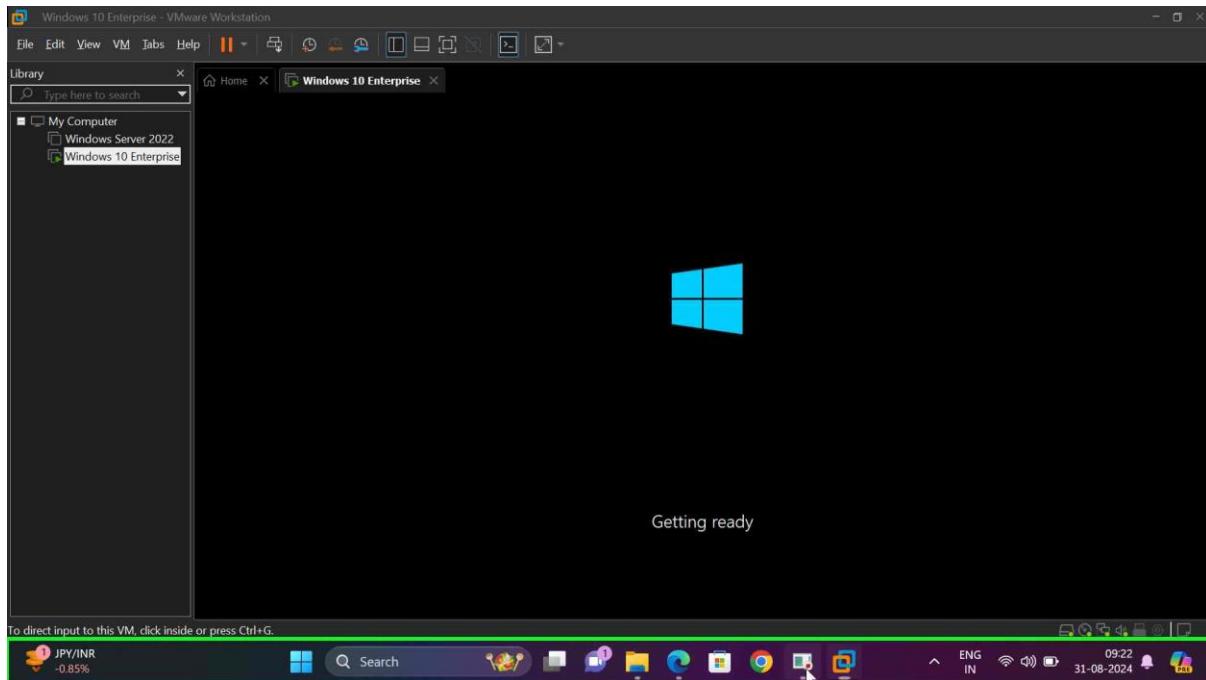


27. Then click next.

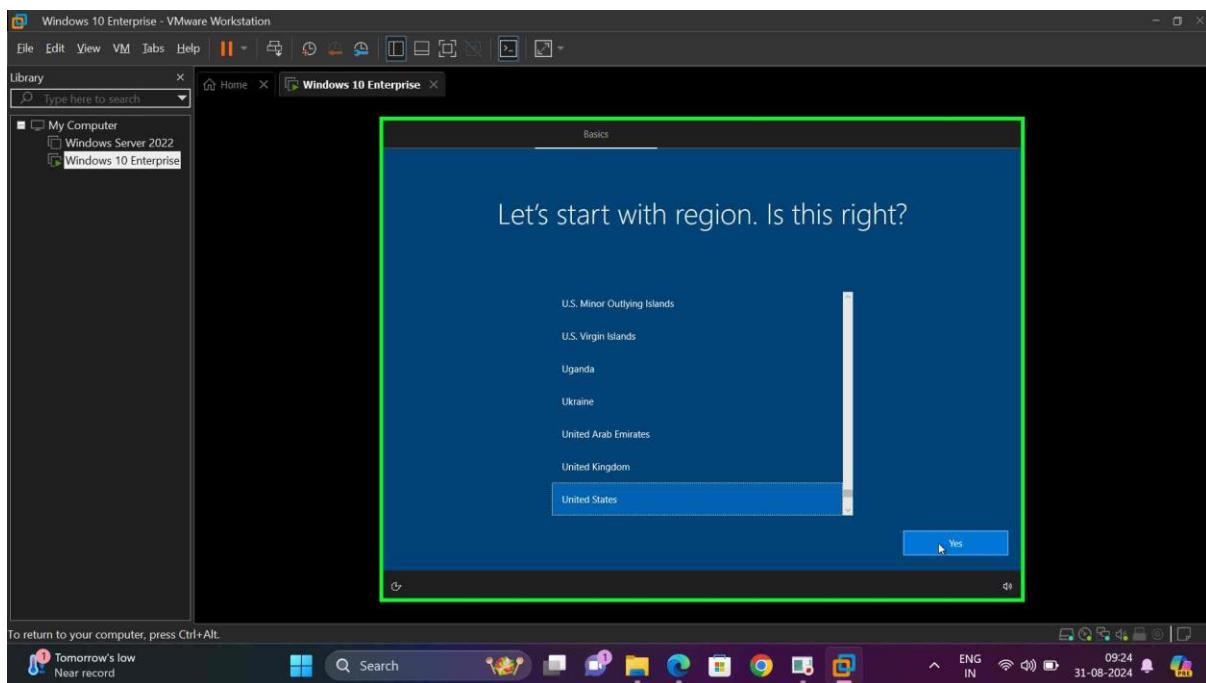


28. Wait for some time to installation.

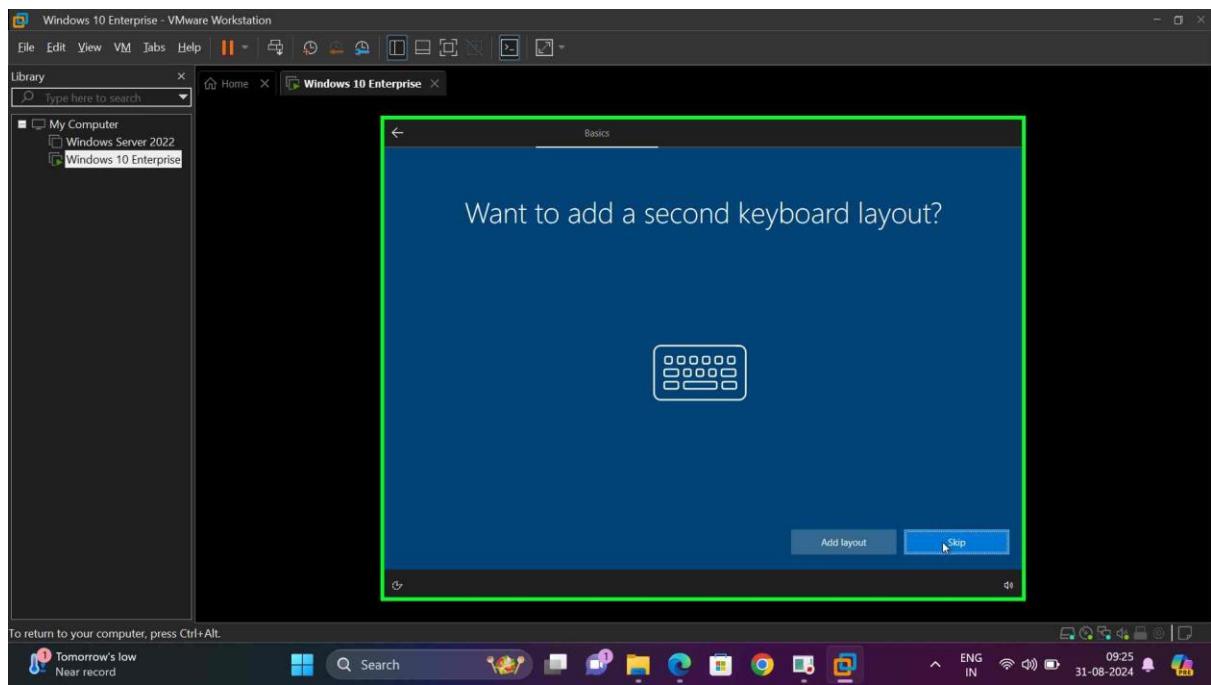
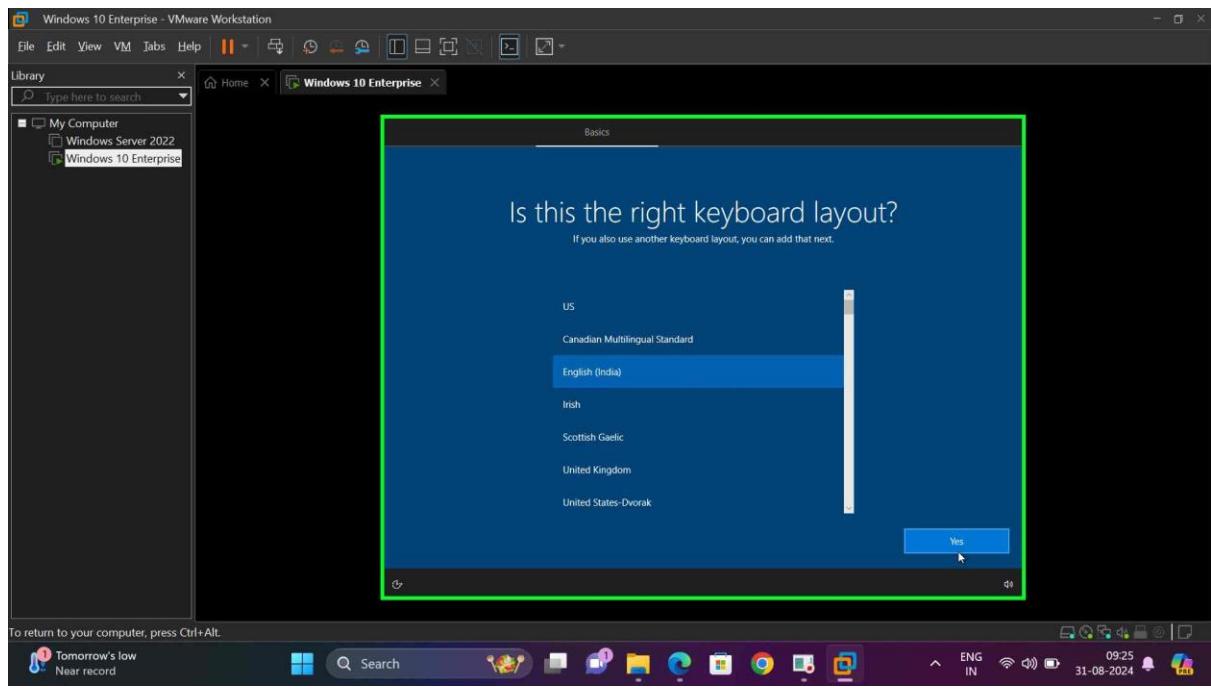


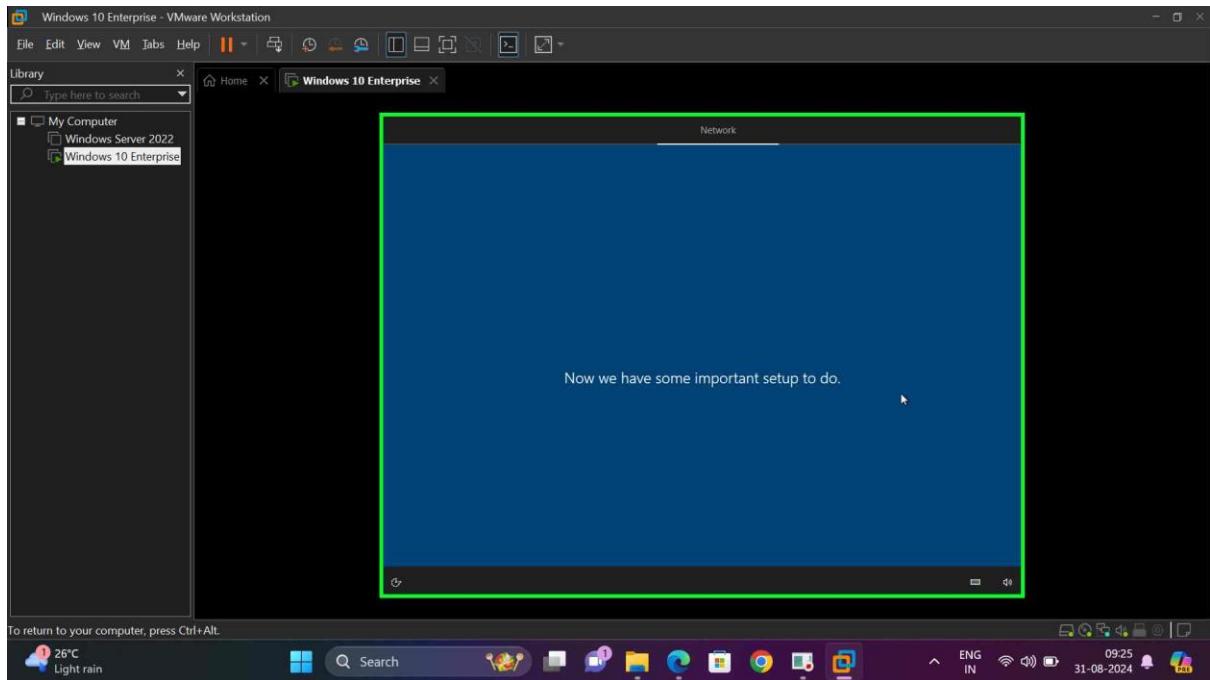


29. Select the region. Click yes.

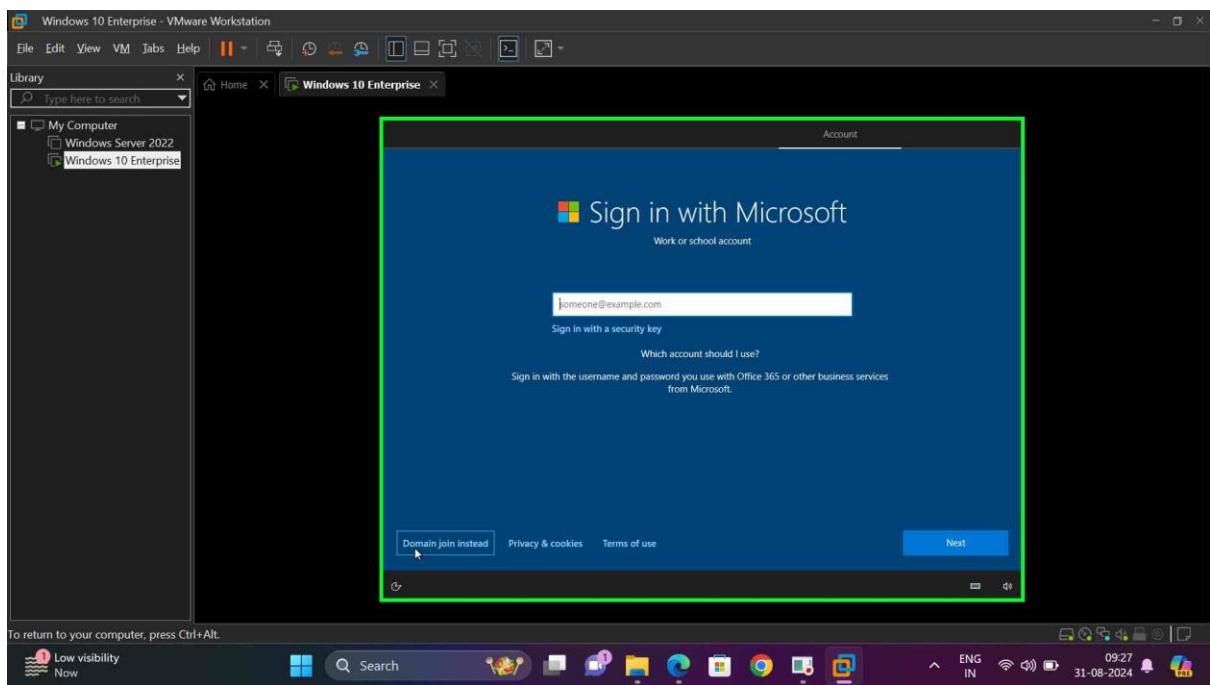


30. Select the keyboard layout which language needed. Then click Yes.

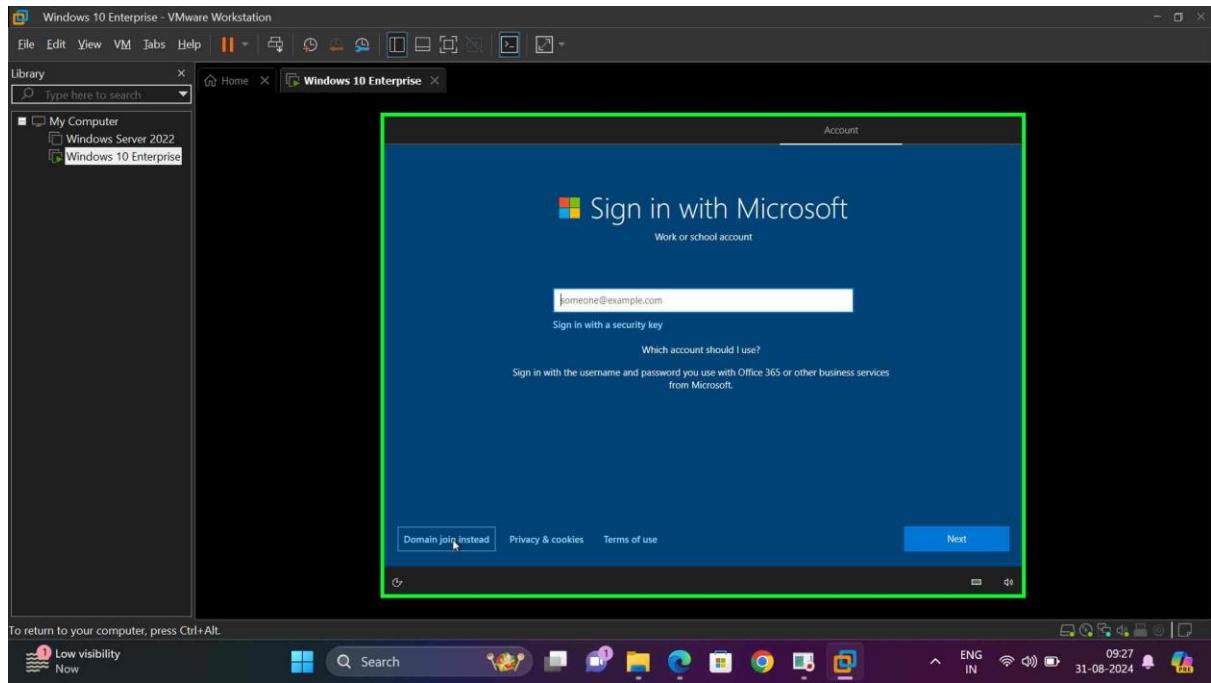




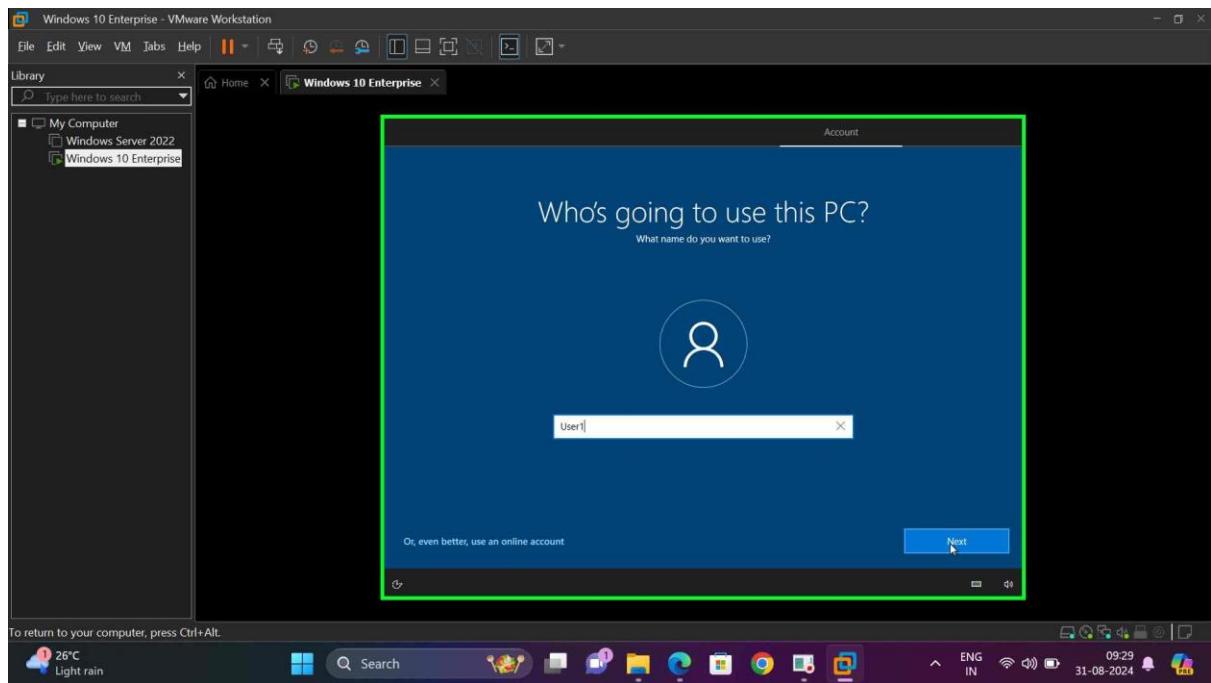
31. Now, select the “ Domain Join instead” which is left below you see that.



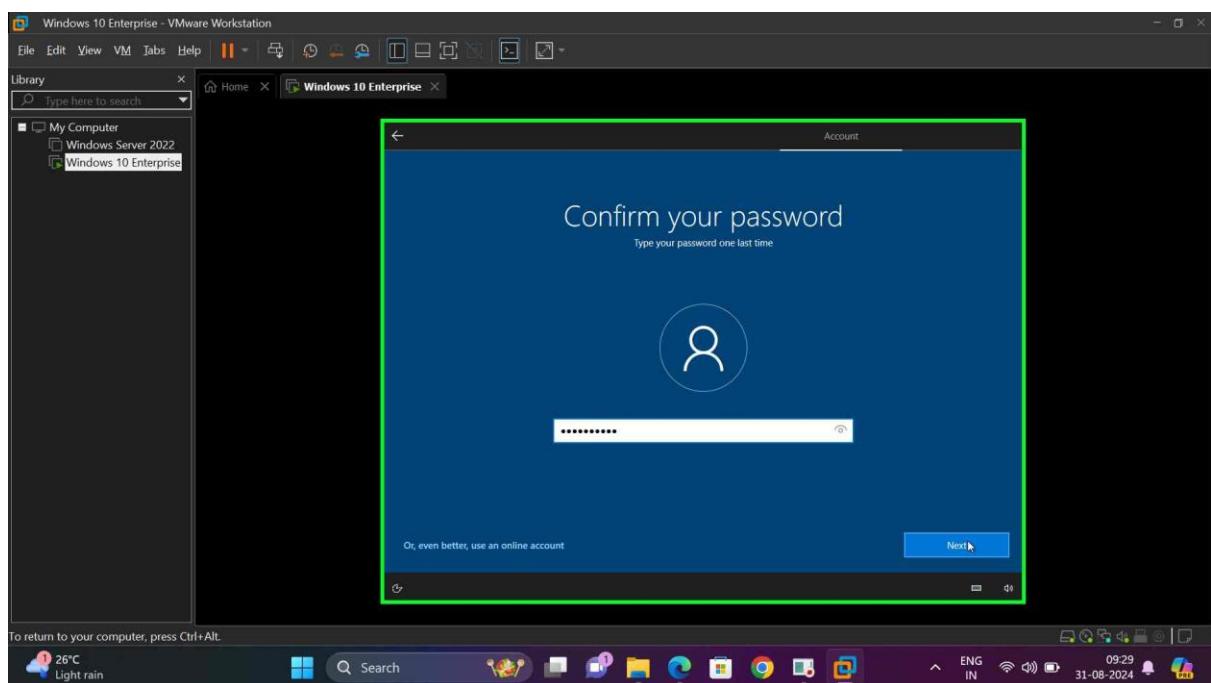
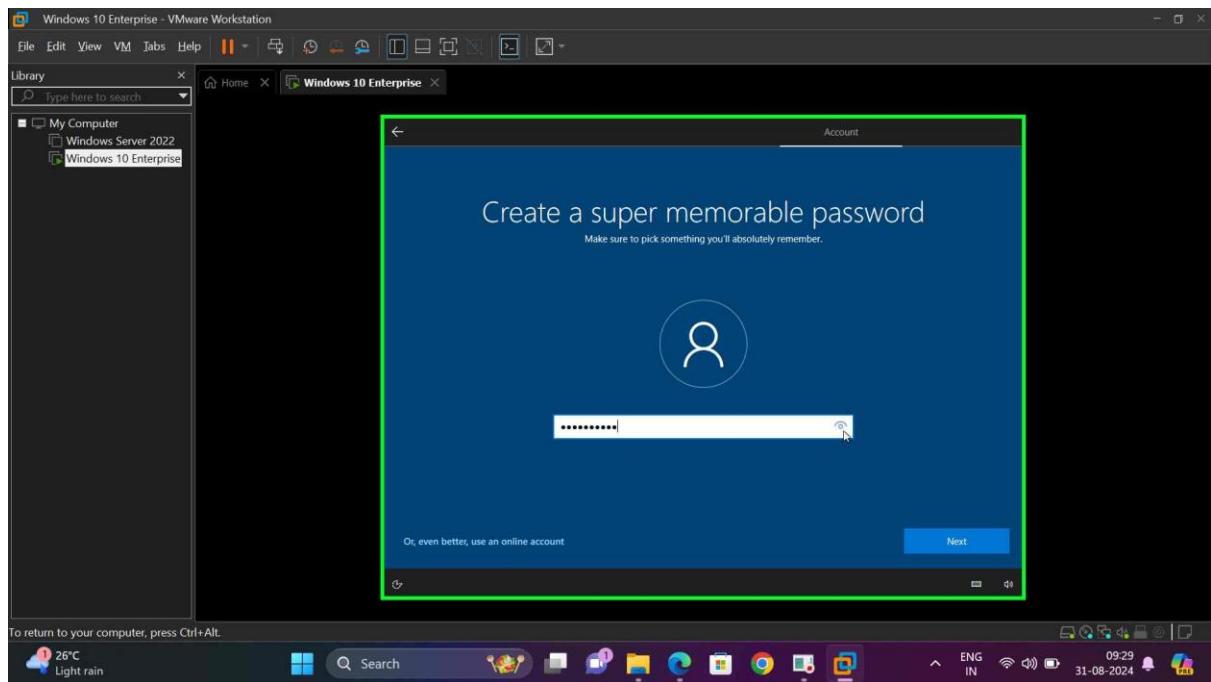
32. Then click Next.



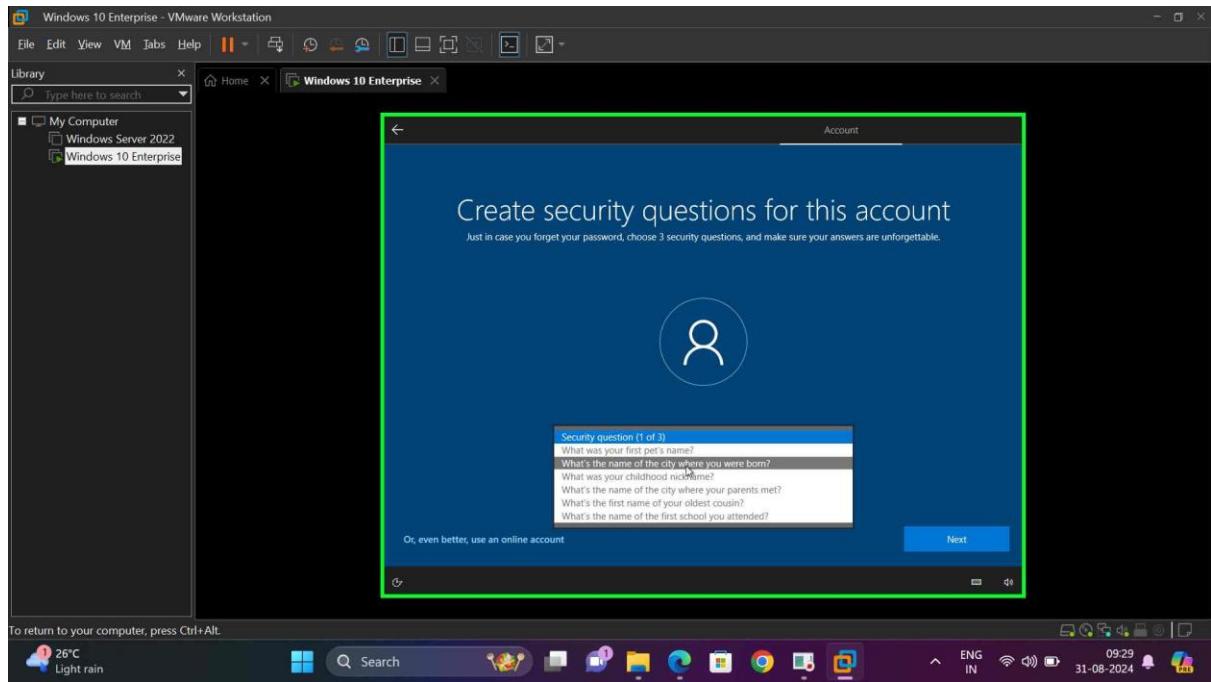
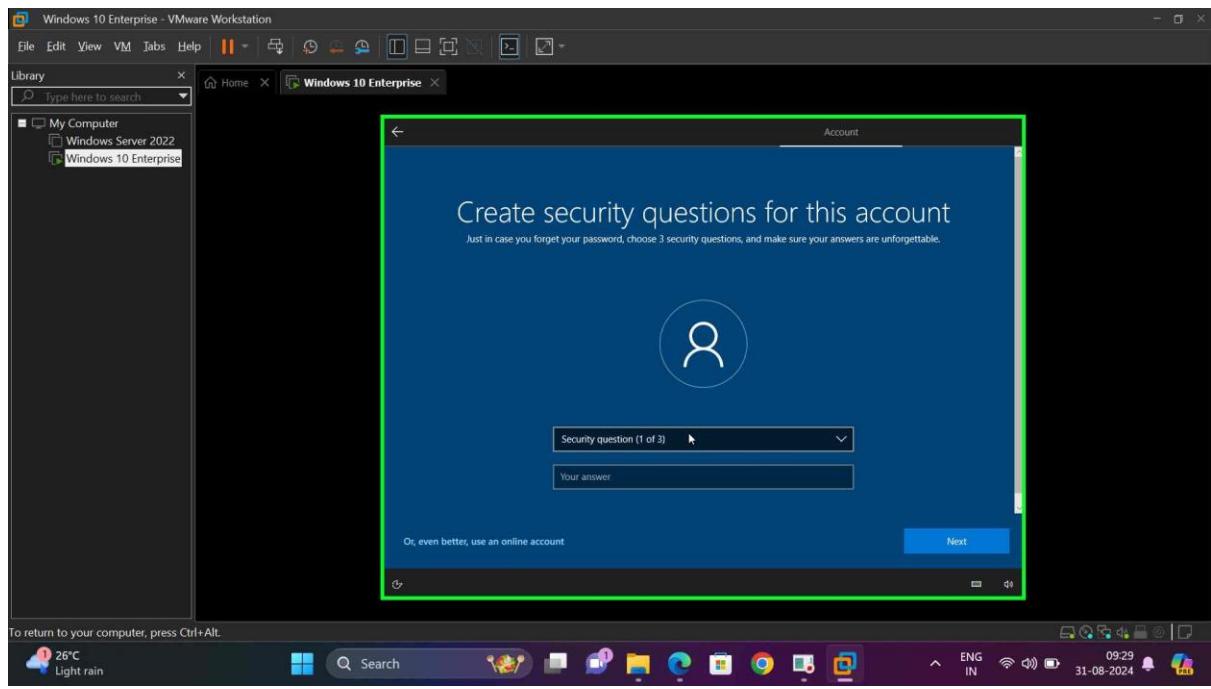
33. Enter the any name to use like "user1". Click next.



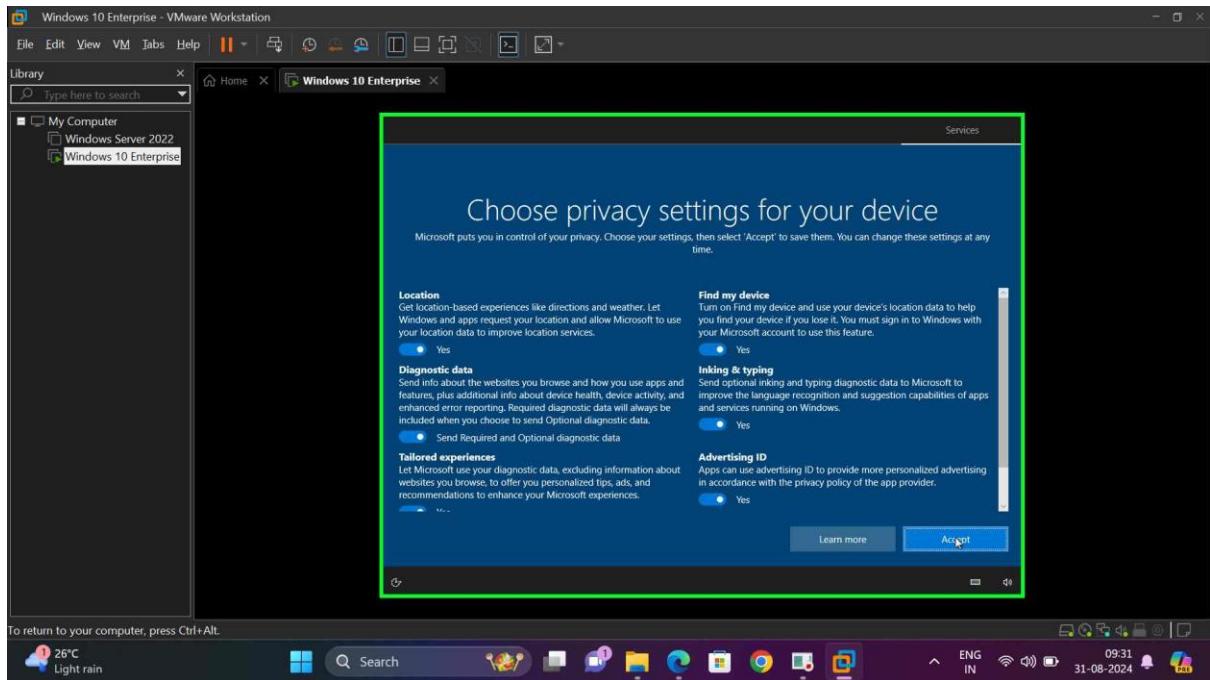
34. Set password to it then click next.



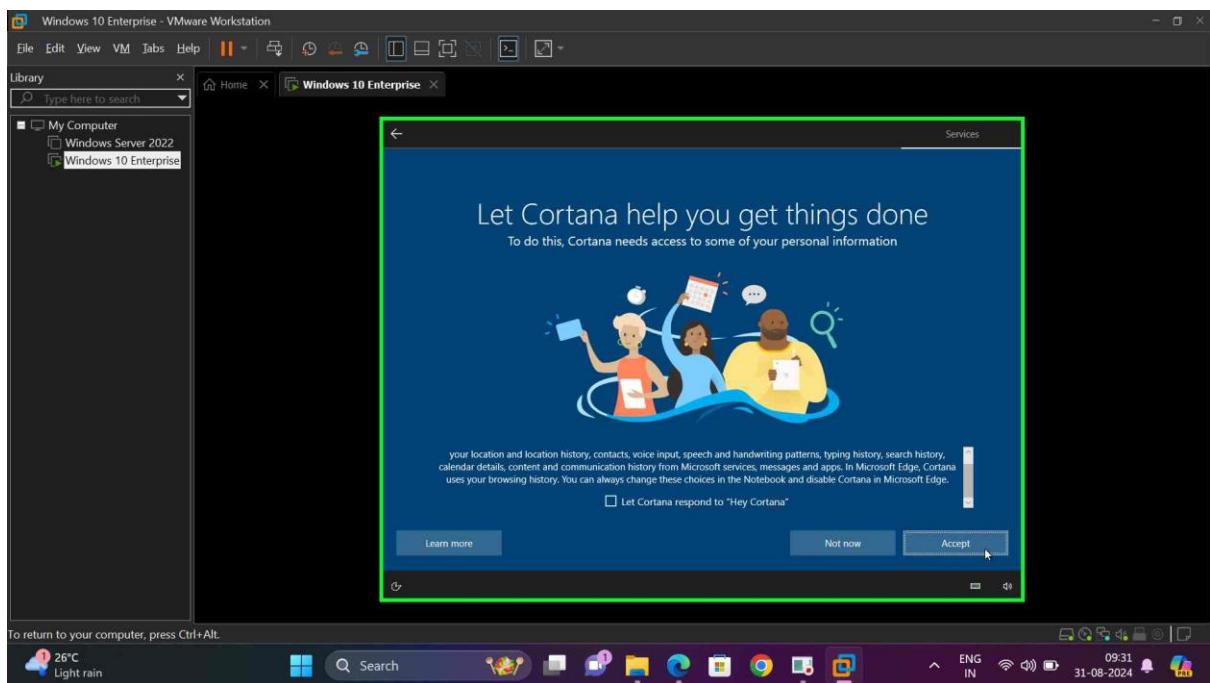
35. Enter some answer the security question.

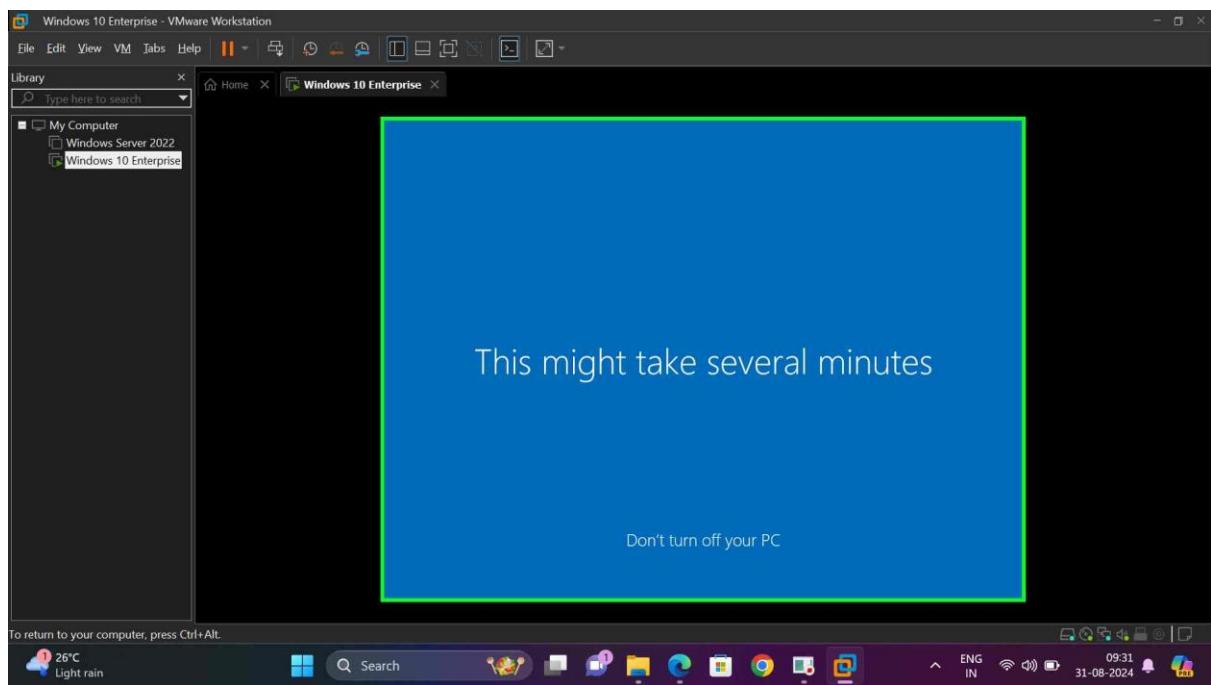
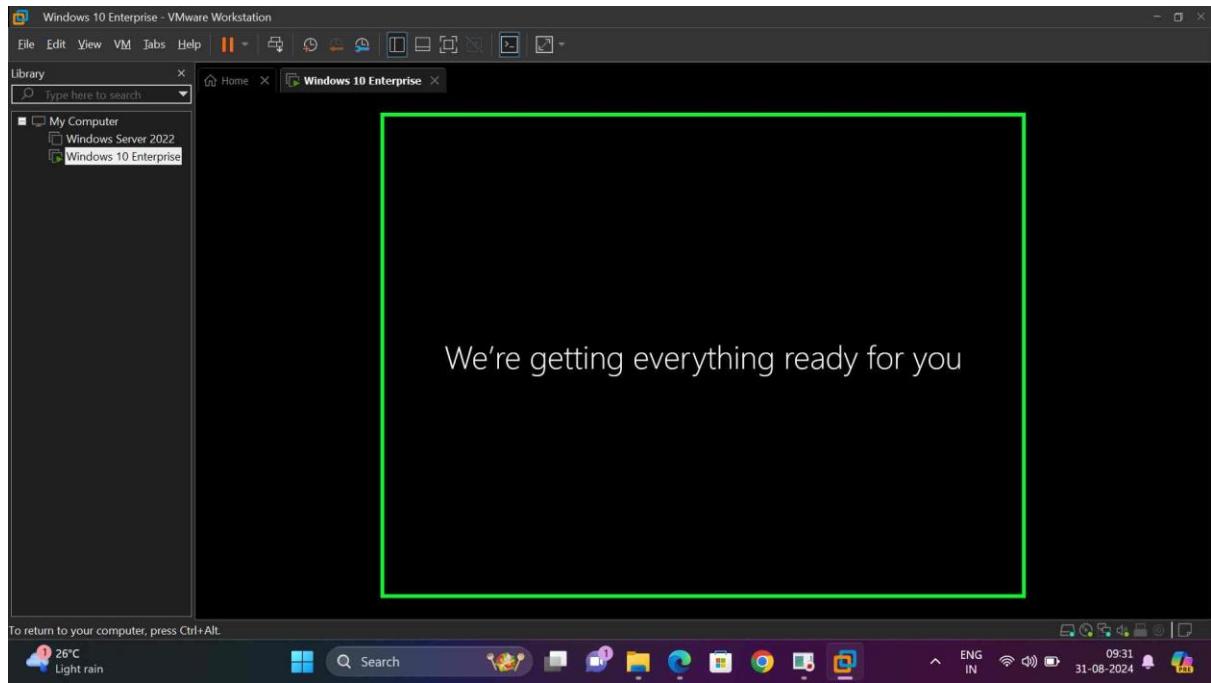


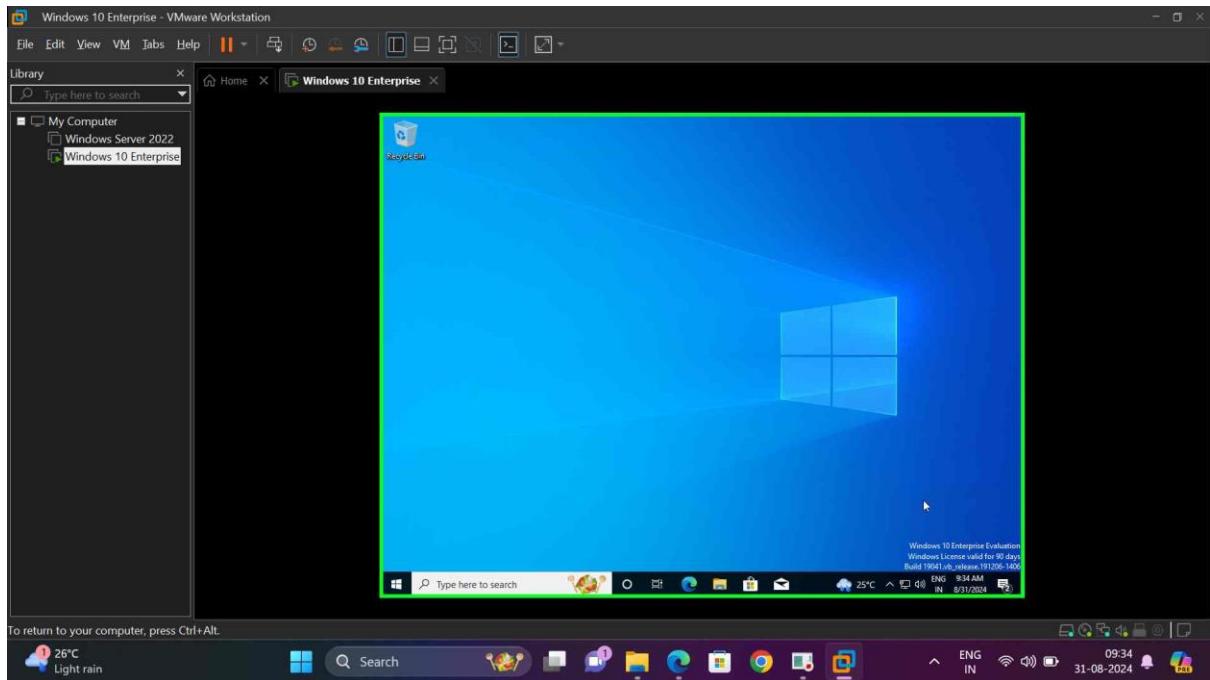
36. Then accept the privacy setting for the device.



37. Click on the Accept.







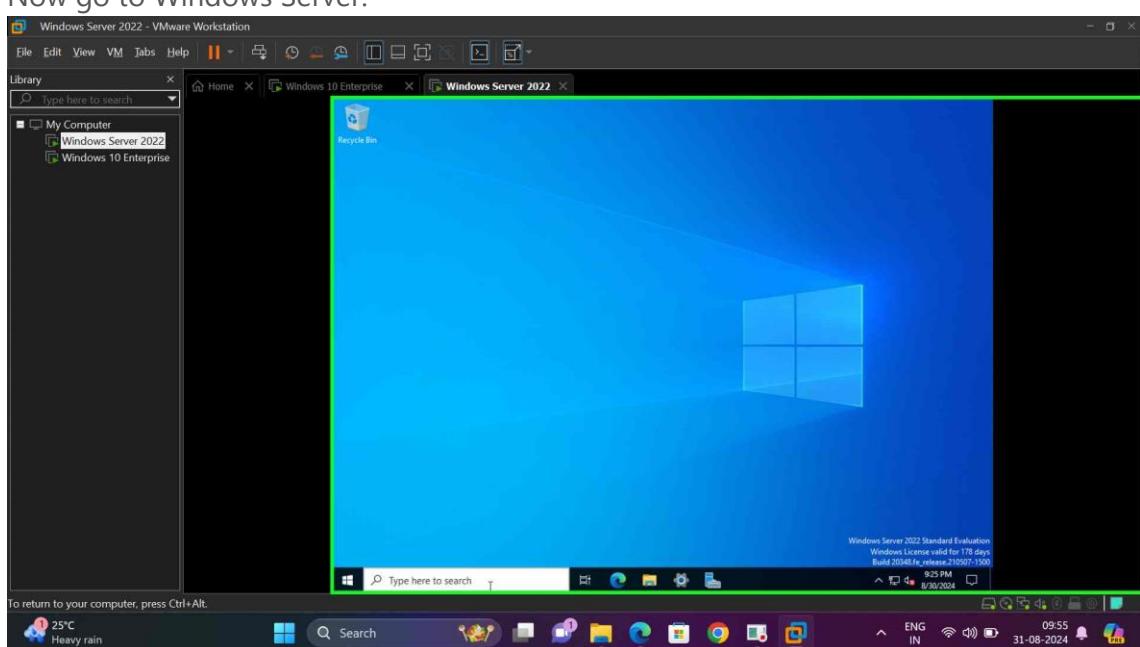
Hence, in this way create a client desktop.

## Configure Windows Server

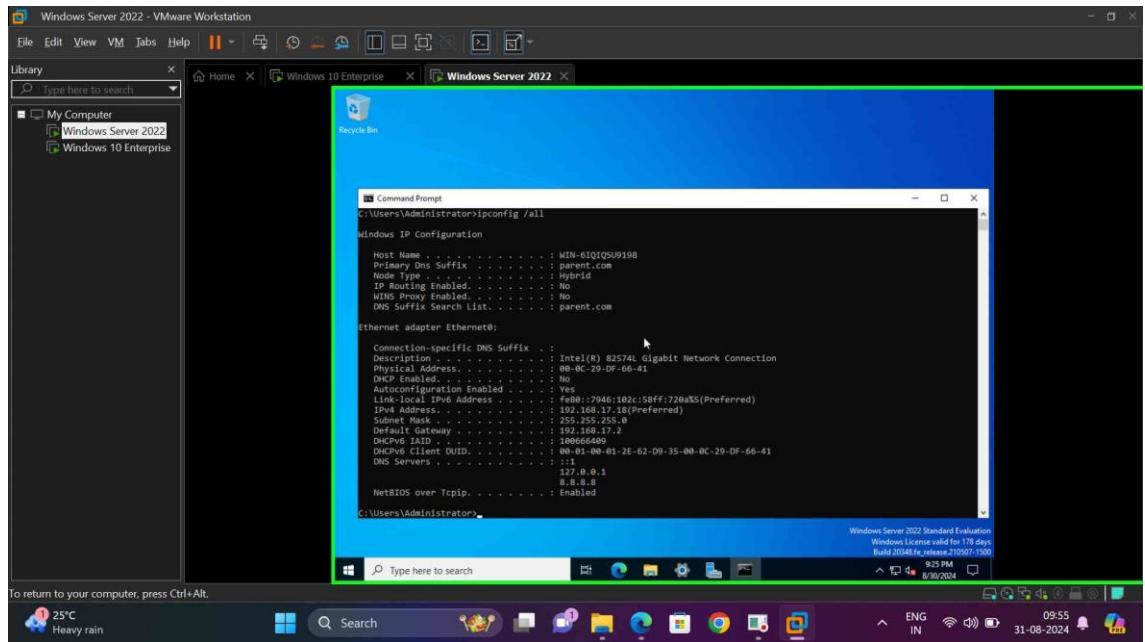
Change the domain controller's IP address to Static IP

Change DNS Servers to loopback and google DNS.

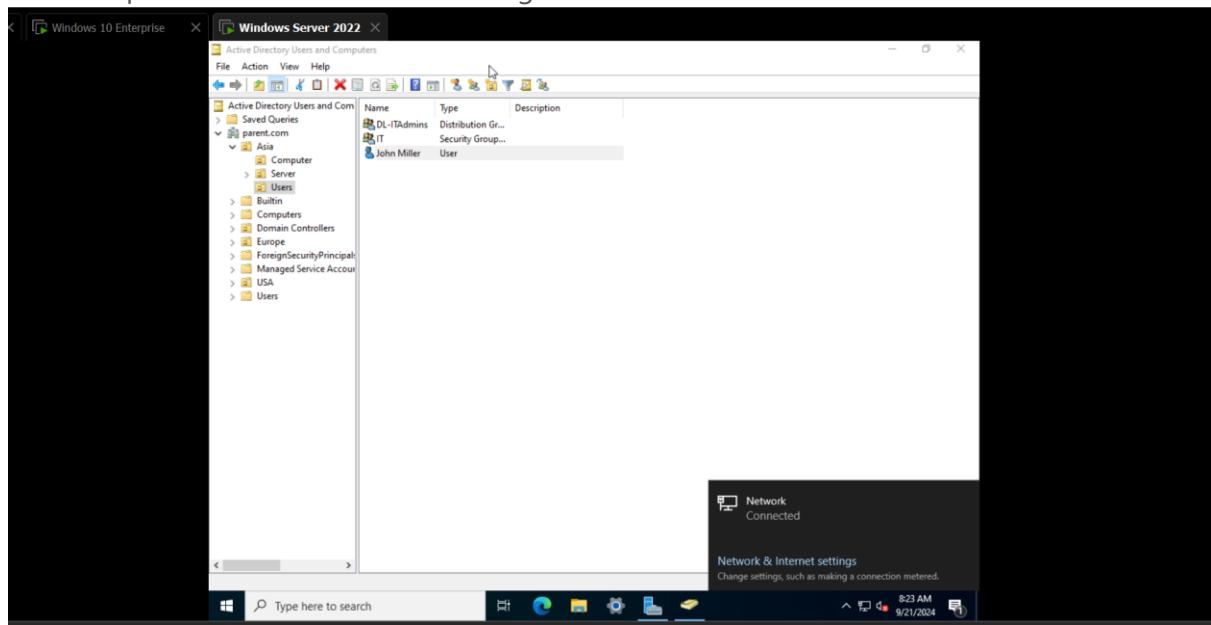
1. Now go to Windows Server.



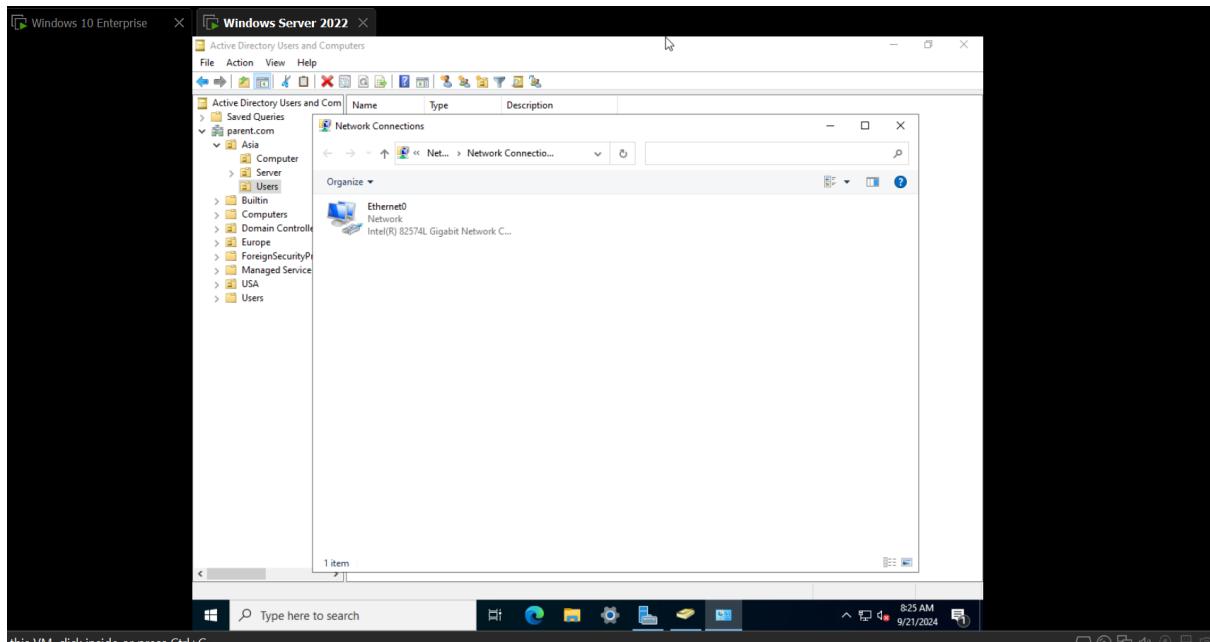
2. Check the IP address



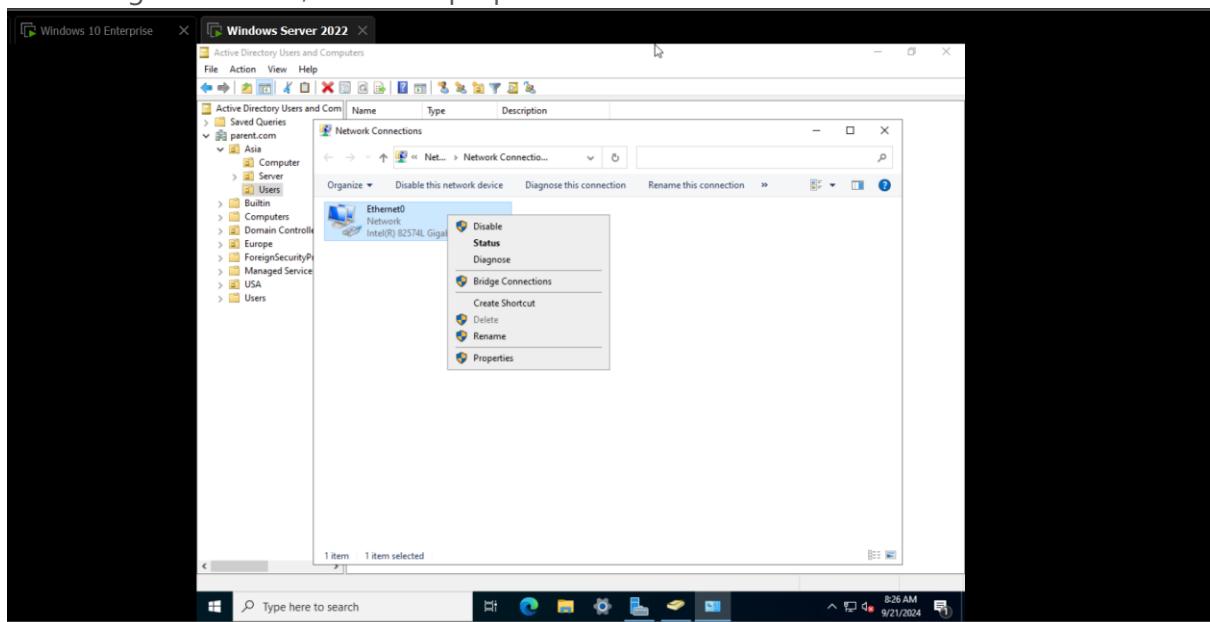
### 3. Open Network & Internet Settings.



### 4. Or simply search Network connection. You can see Ethernet0.

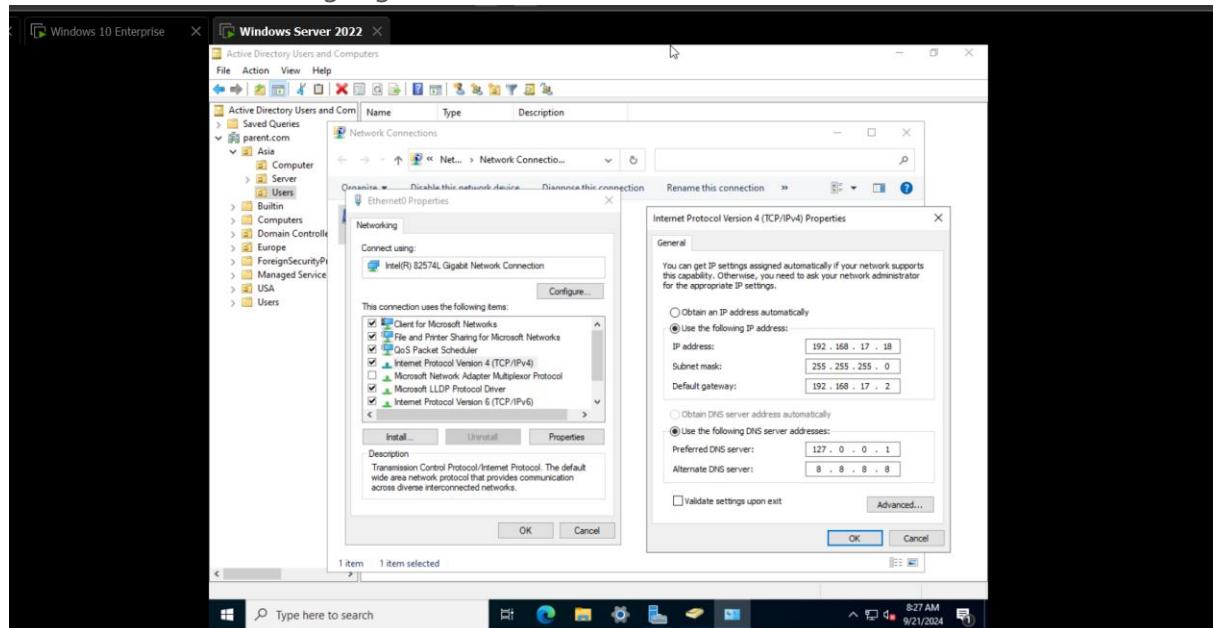


5. Right click on it, select the properties.



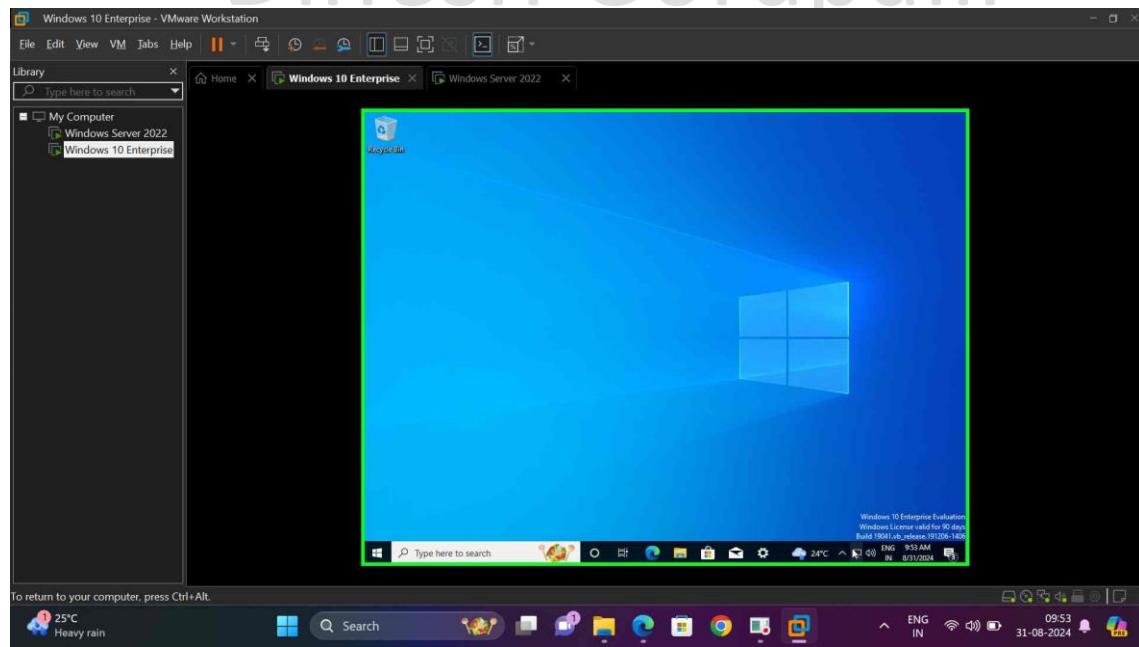
6. In properties, select Internet Protocol Version (4 TCP / IPv4) and in that IP of the will be the IPv4 address , subnet mask will 255.255.255.255, default gateway will be there same in IP mentioned there. Preferred DNS server will be the DNS server number.

Alternet DNS server will google default IP address which is 8.8.8.8 . Then Click on ok.

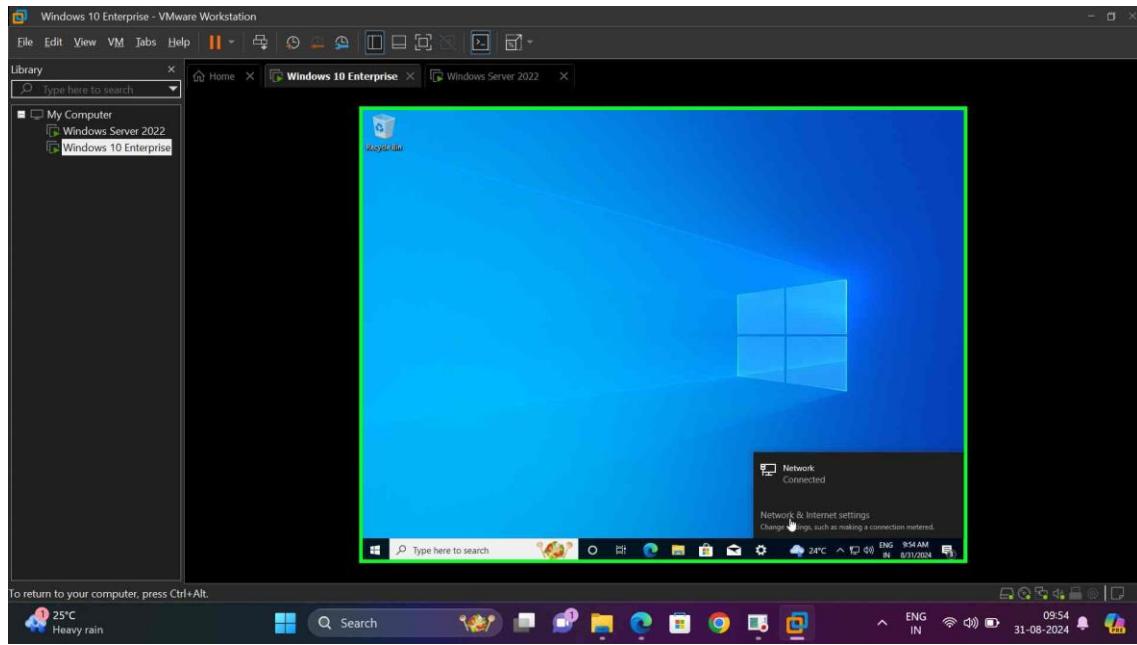


## Adding Computer to Domain:

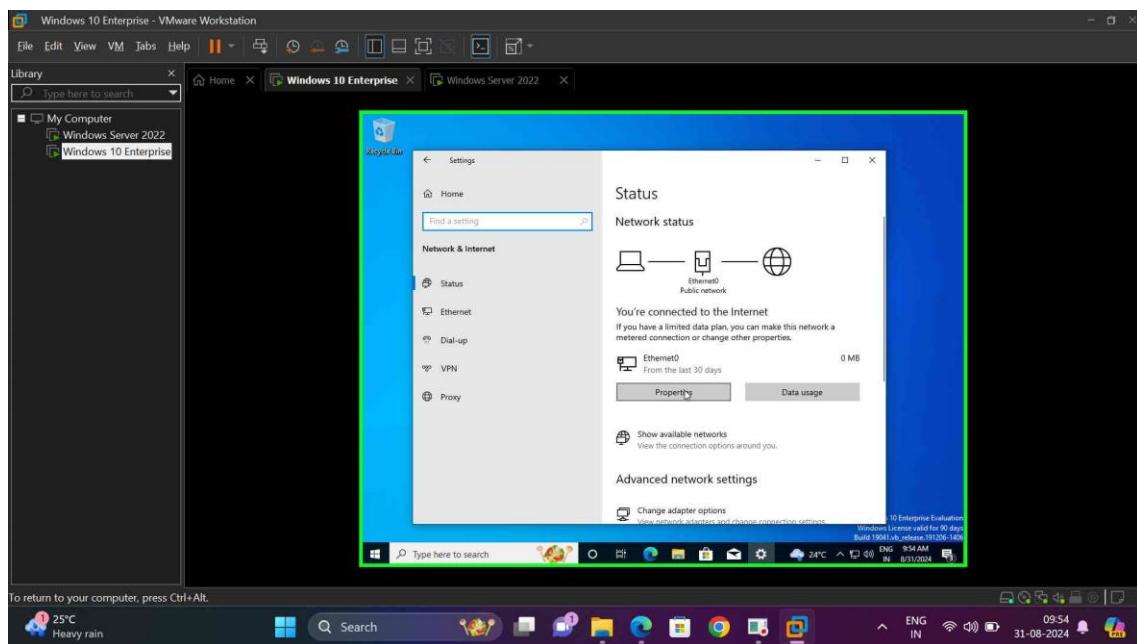
1. Go to the client desktop which is Windows 10 enterprise.



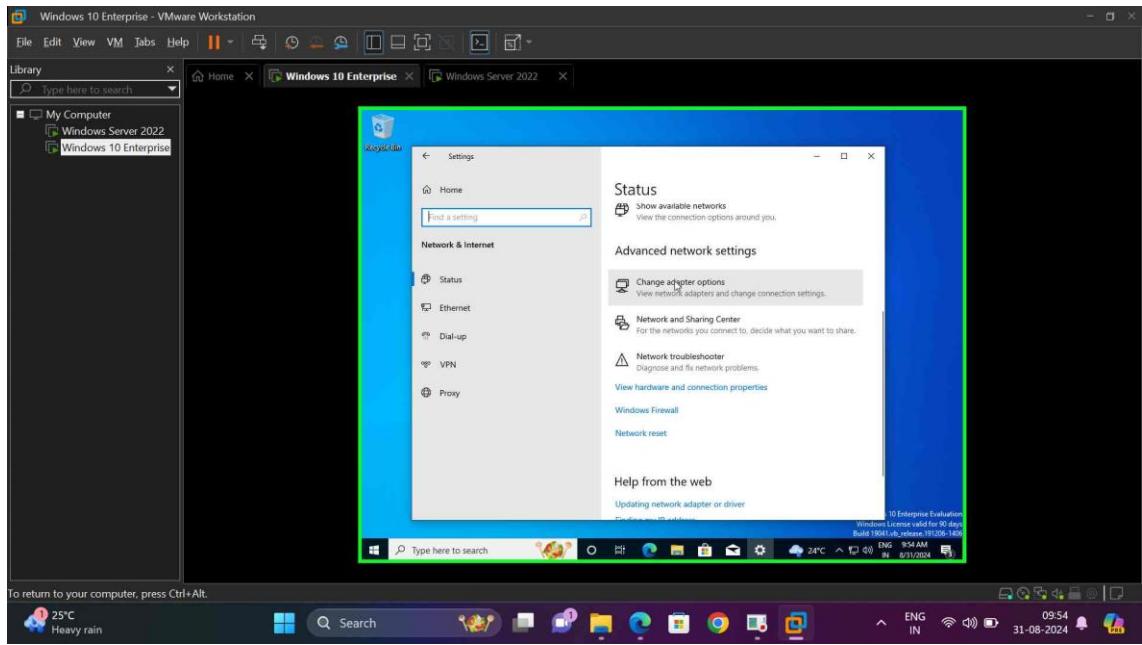
2. Click on internet symbol down, select Network & Internet settings.



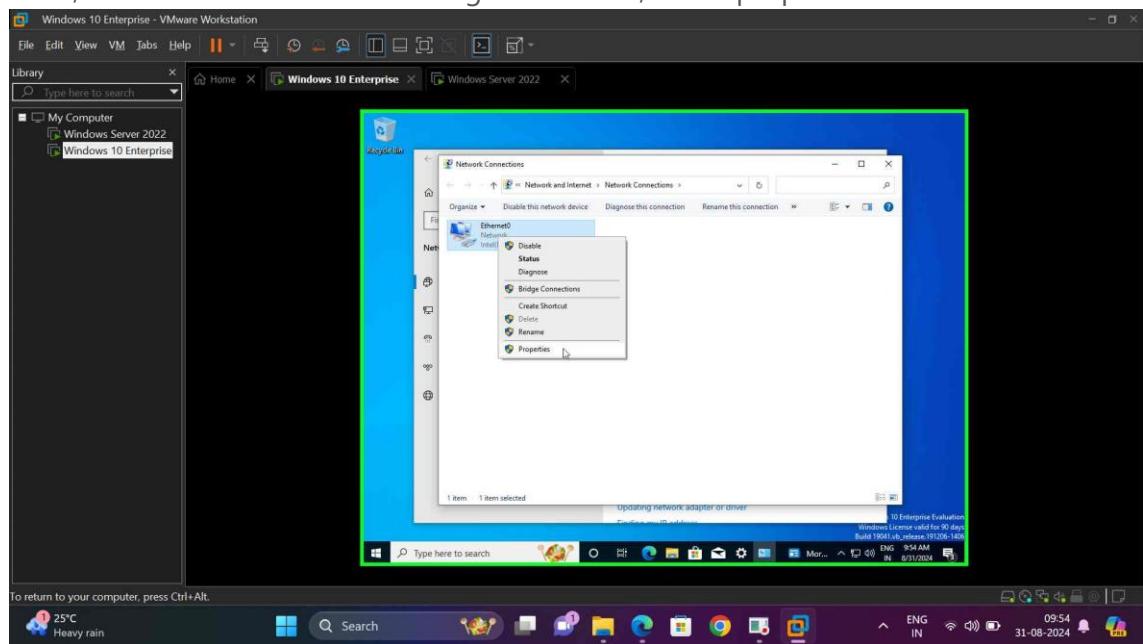
3. Click on the properties.



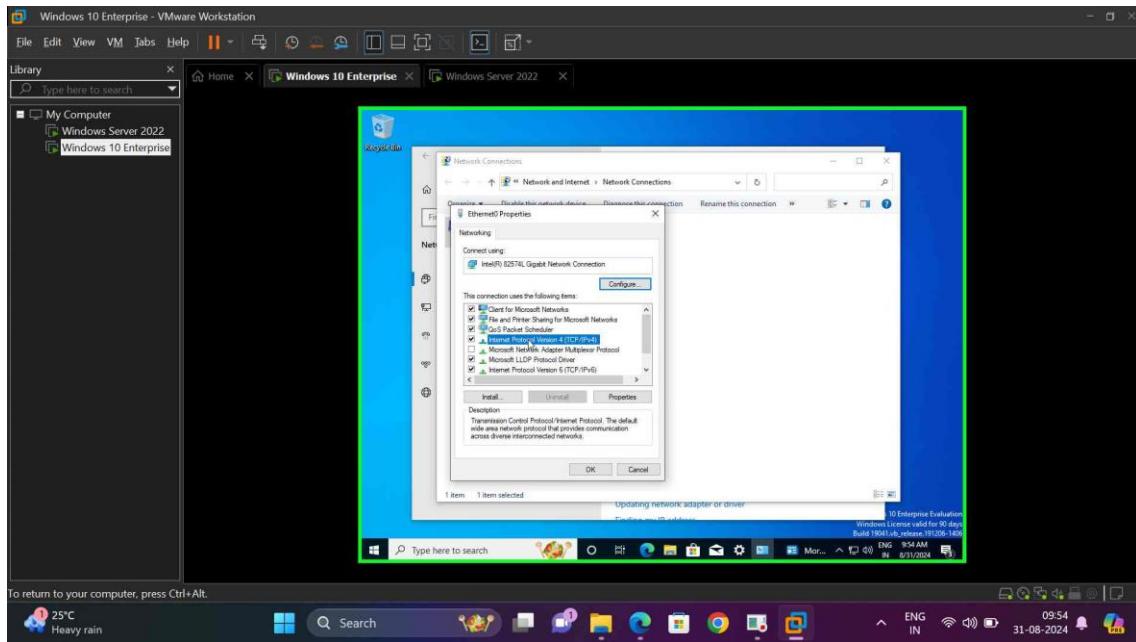
4. Click on the change adopter options.



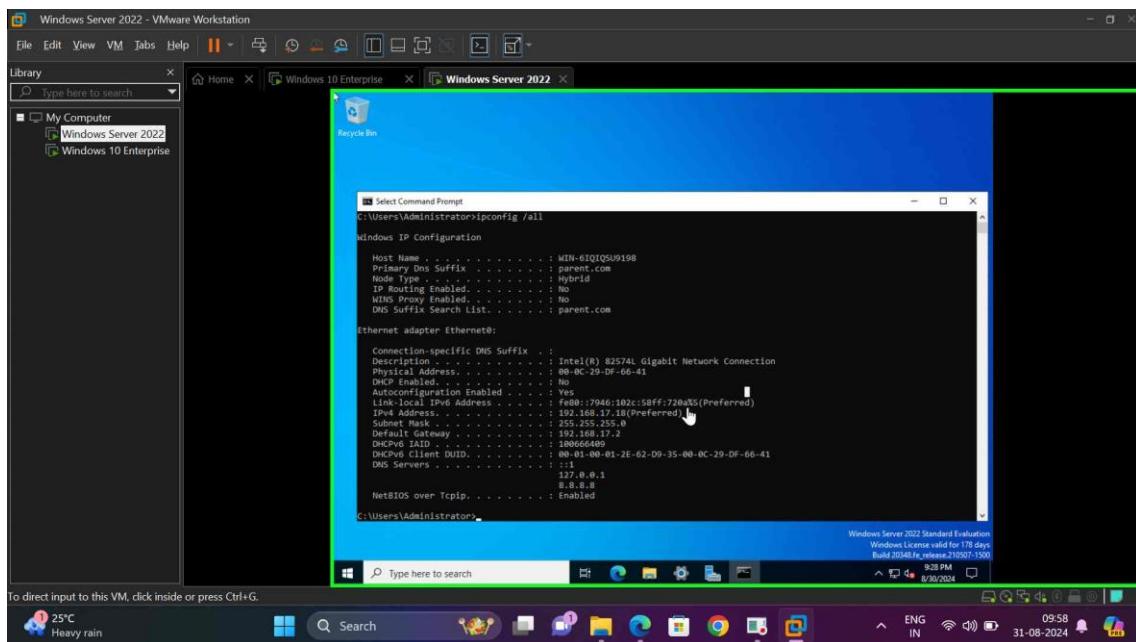
5. Then, we can view the ethernet0. Right click on it, select properties.



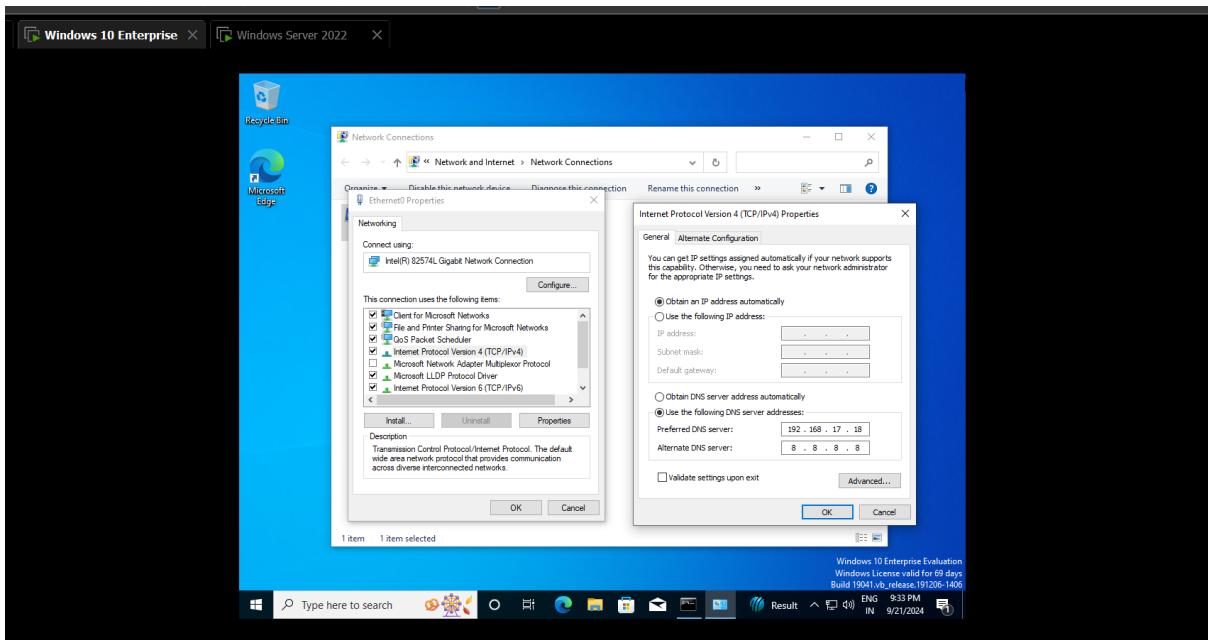
6. In properties, select Internet Protocol Version (4 TCP / IPv4).



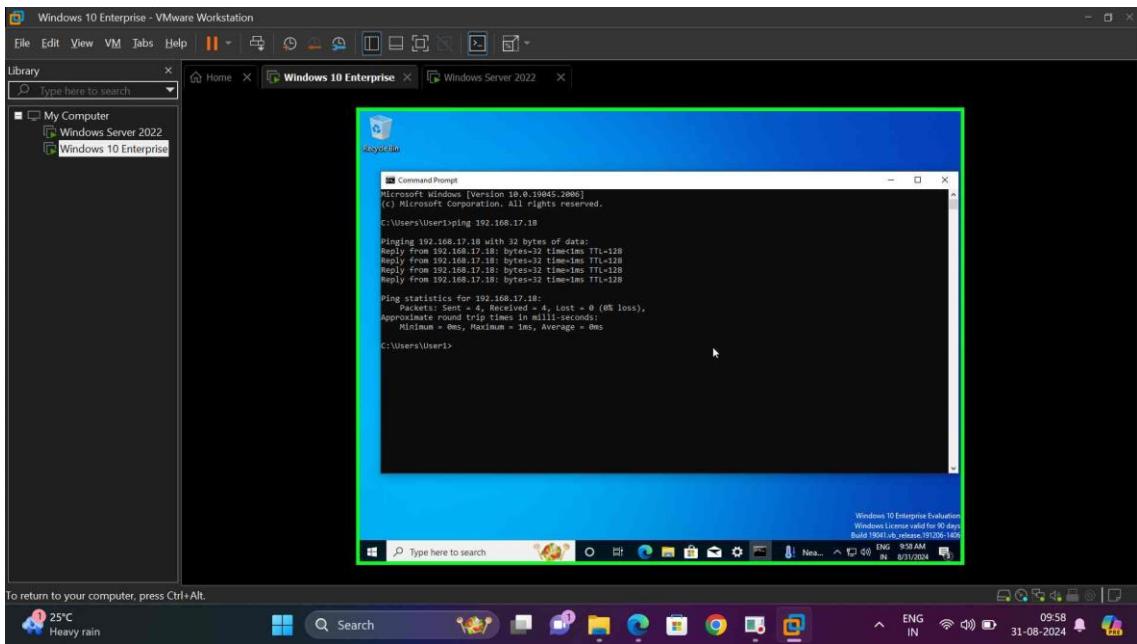
## 7. Check the IPv4 address from the server.



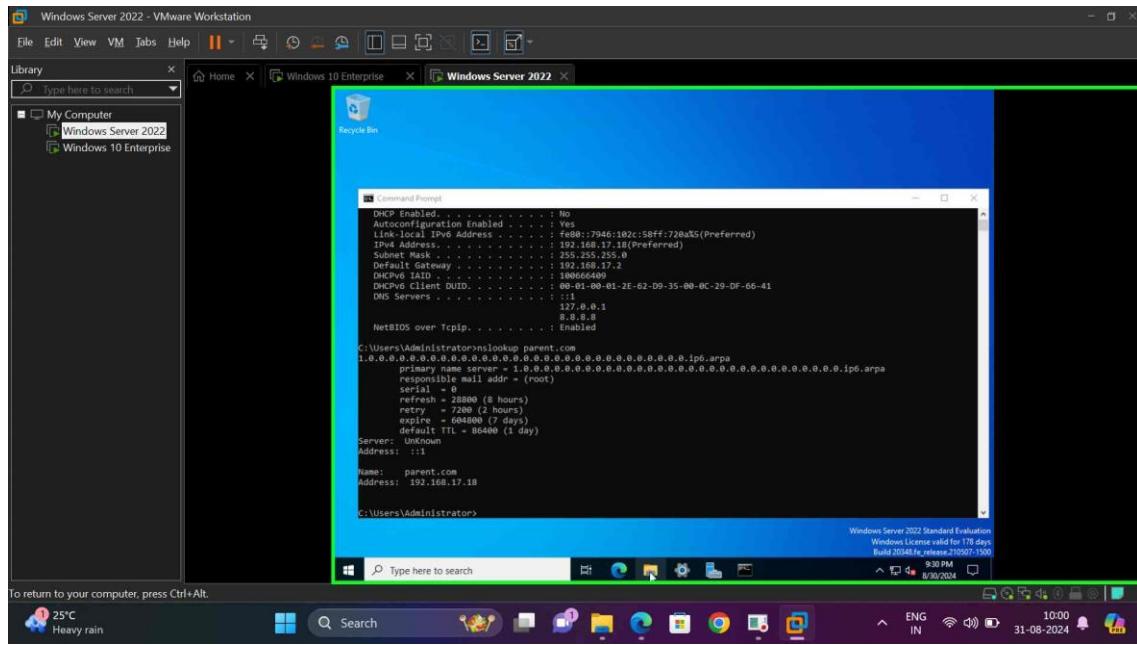
## 8. Here, in the preferred DNS server we have to put IPv4 address of the server. Alternate DNS server put 8.8.8.8. Click ok.



9. To test the connectivity we the Domain controller, open cmd type ping ip address.

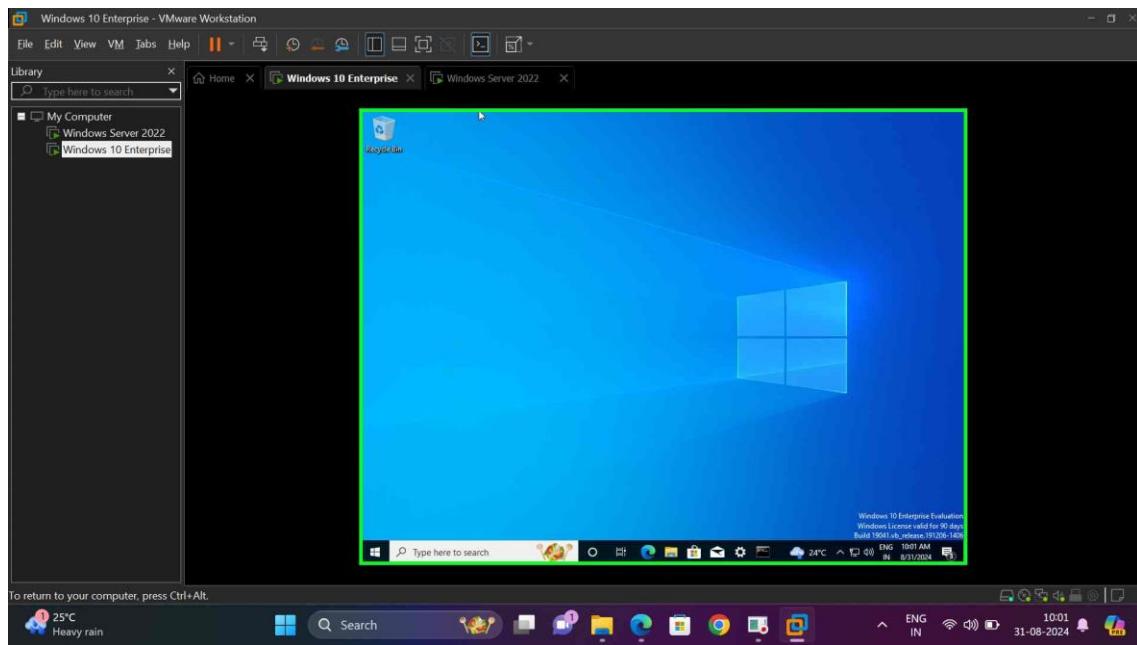


10. Another way of check the DNS is working , we have to server in cmd type nslookup parent.com it gives an IP address.

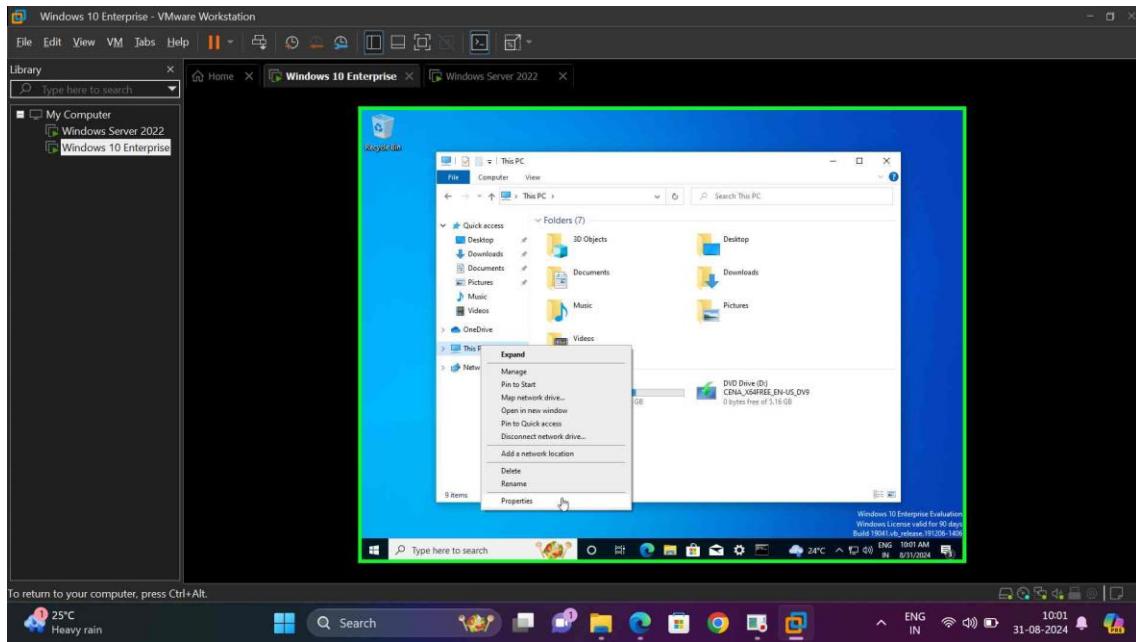


## Joining the Computer to the domain:

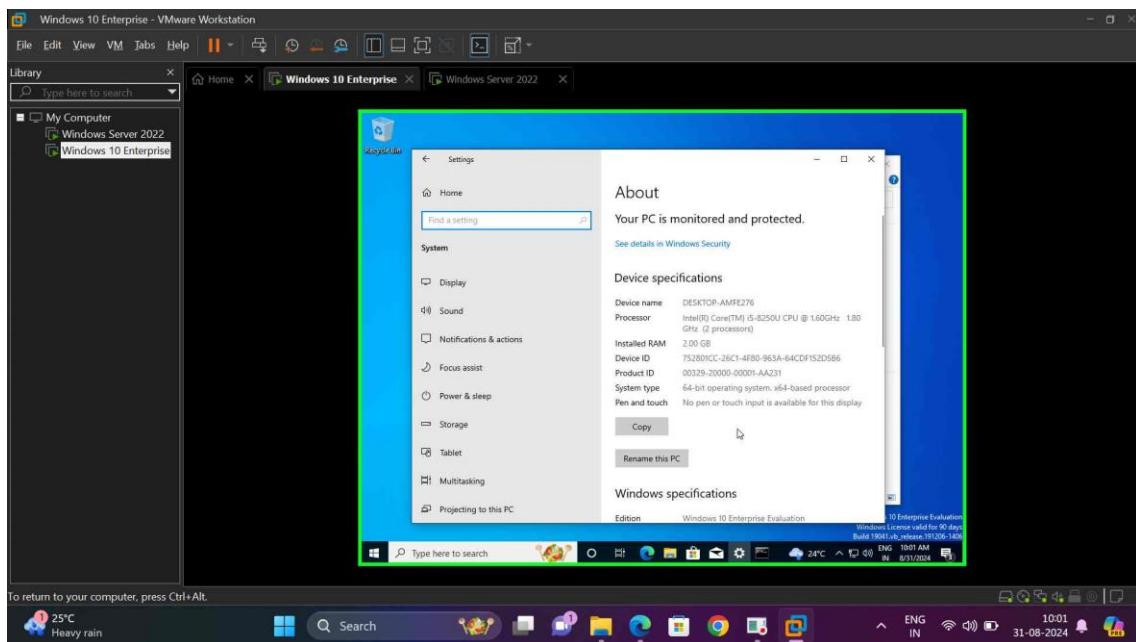
1. Open the Window 10 enterprise client desktop.



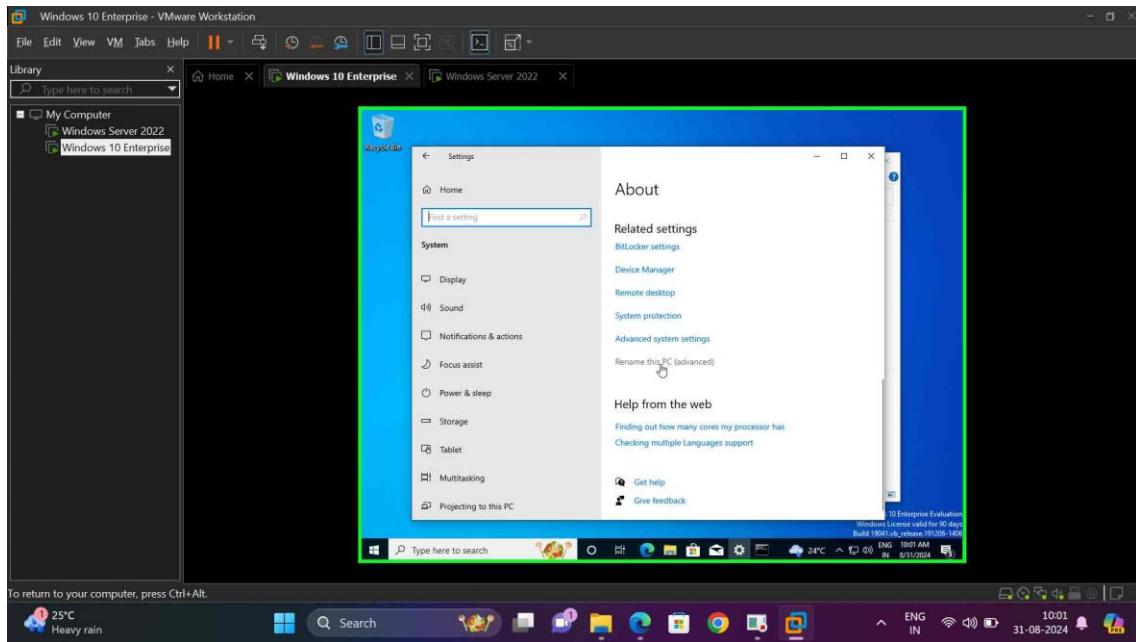
2. Open the file explorer, right click on This PC, select properties.



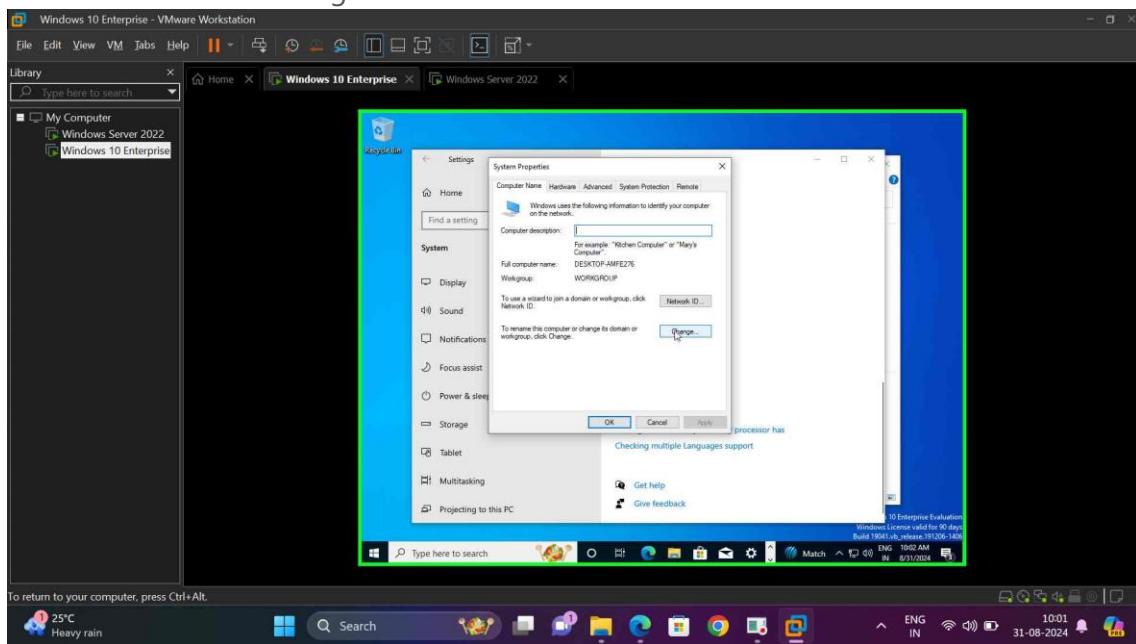
3. Click on Rename this PC.



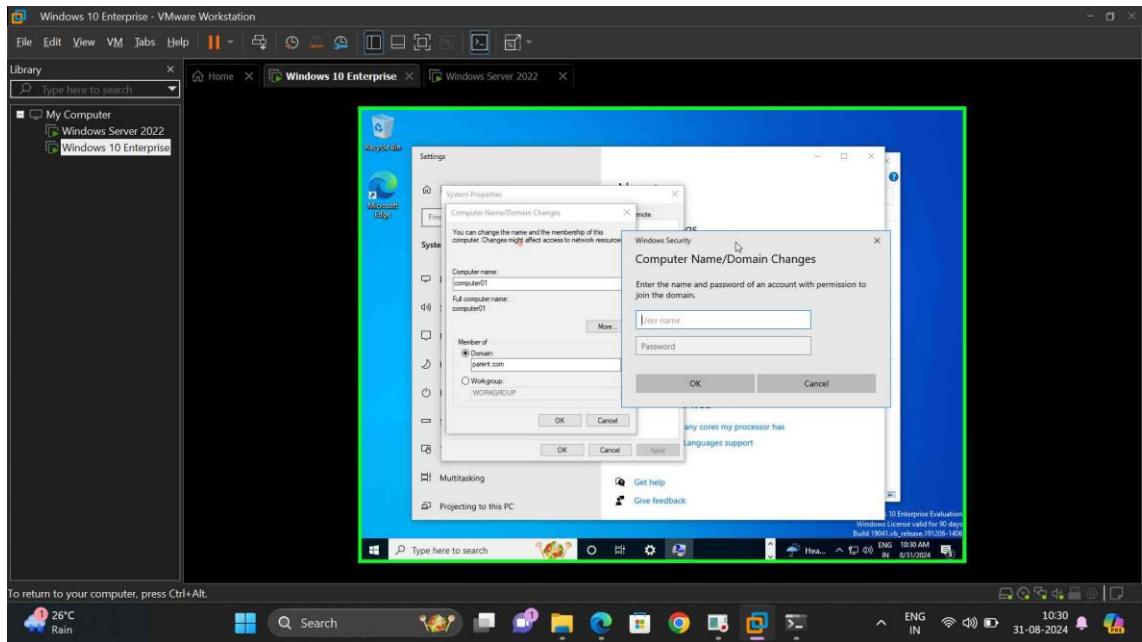
4. Select the "Rename PC(advanced)"



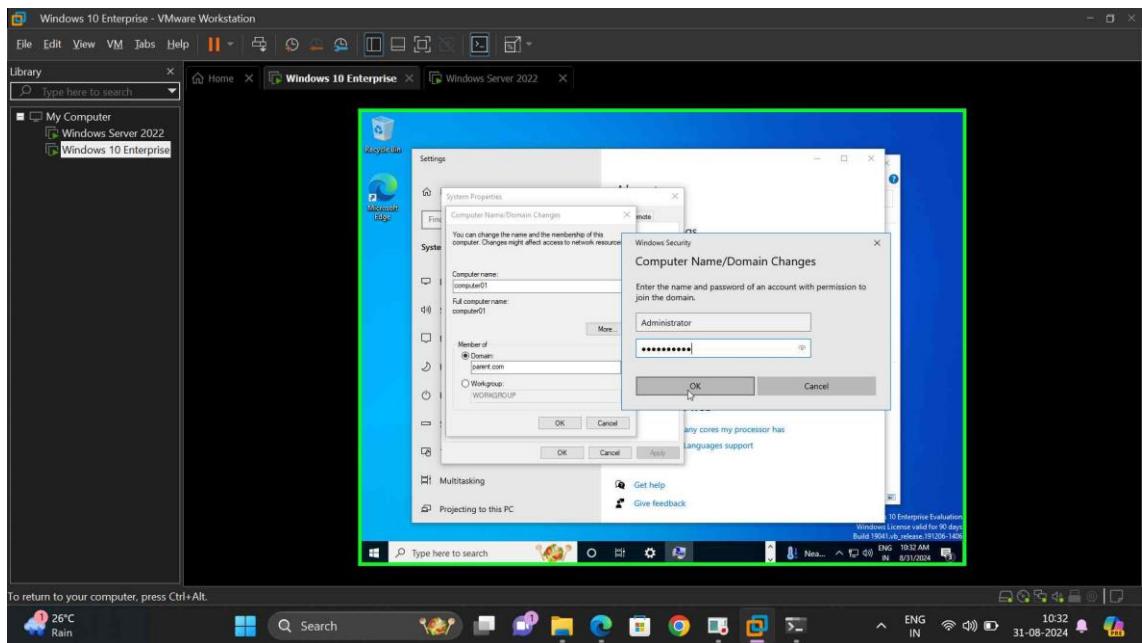
5. Click on the Change button.



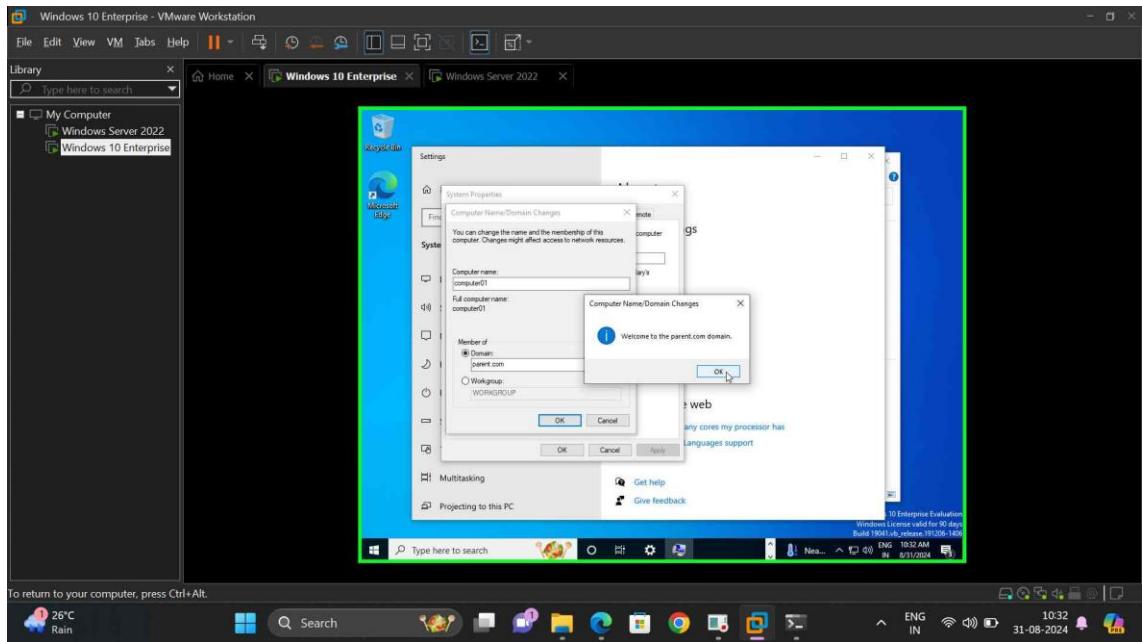
6. Enter the computer name and domain as parent domain name here mine is parent.com and make my computer name as computer01.



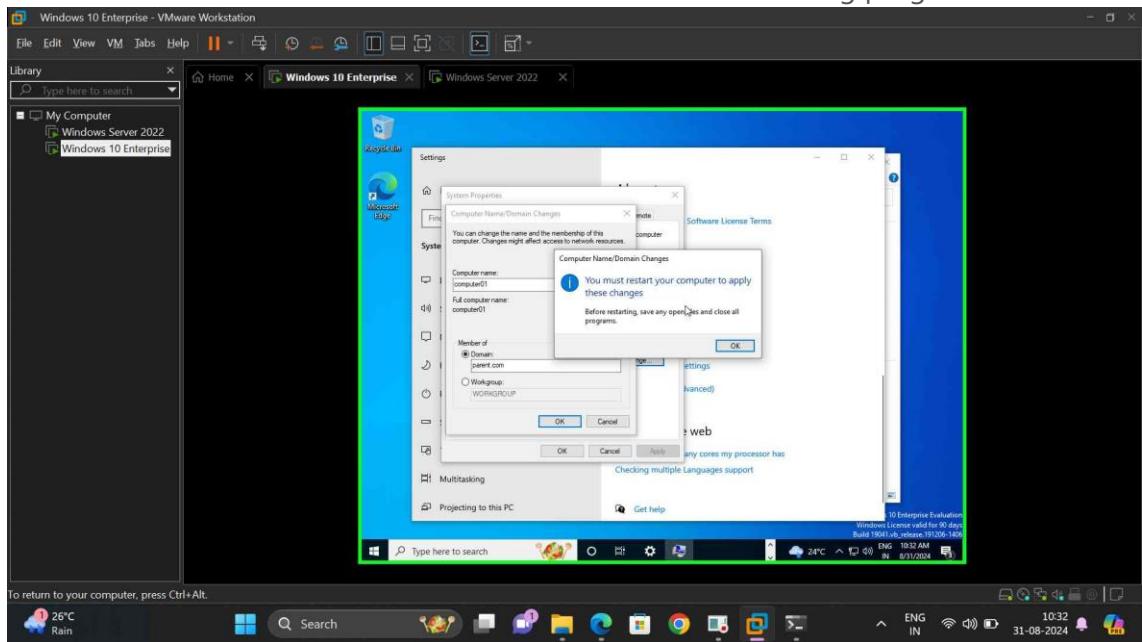
7. Again I need to put admin credentials to change name and to connect the domain.



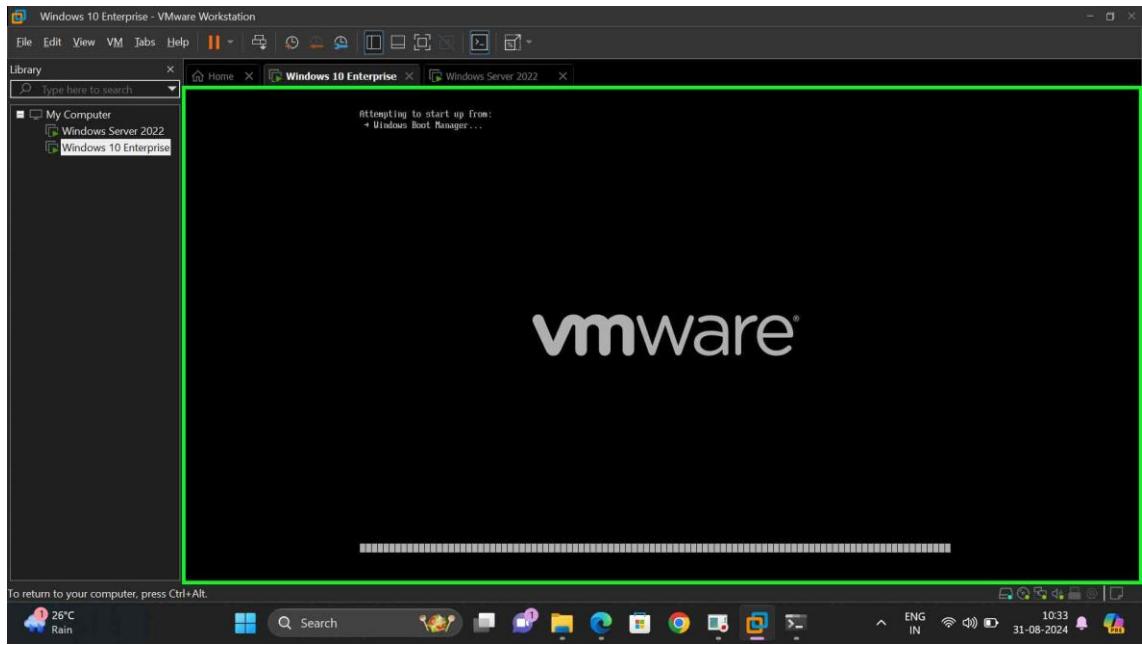
8. After that , we can see pop message that, "Wecome to Parent.com domain"



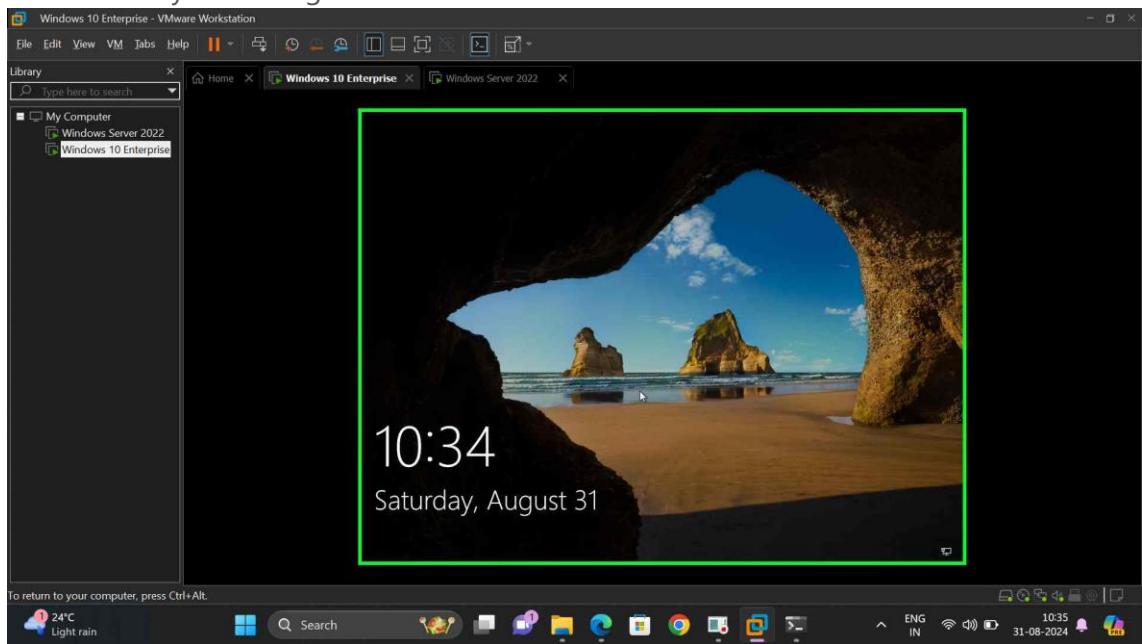
9. At last it ask to restart the PC. So we have to close running programs.



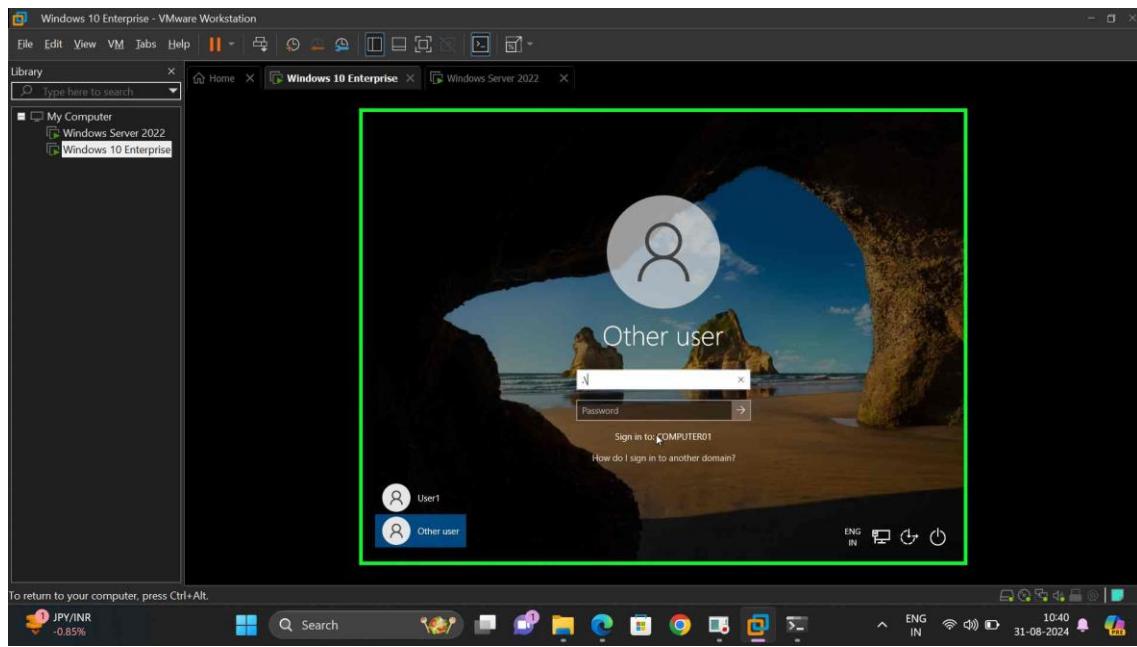
10. After click restart, it takes some restart.



11. Now you can login see.

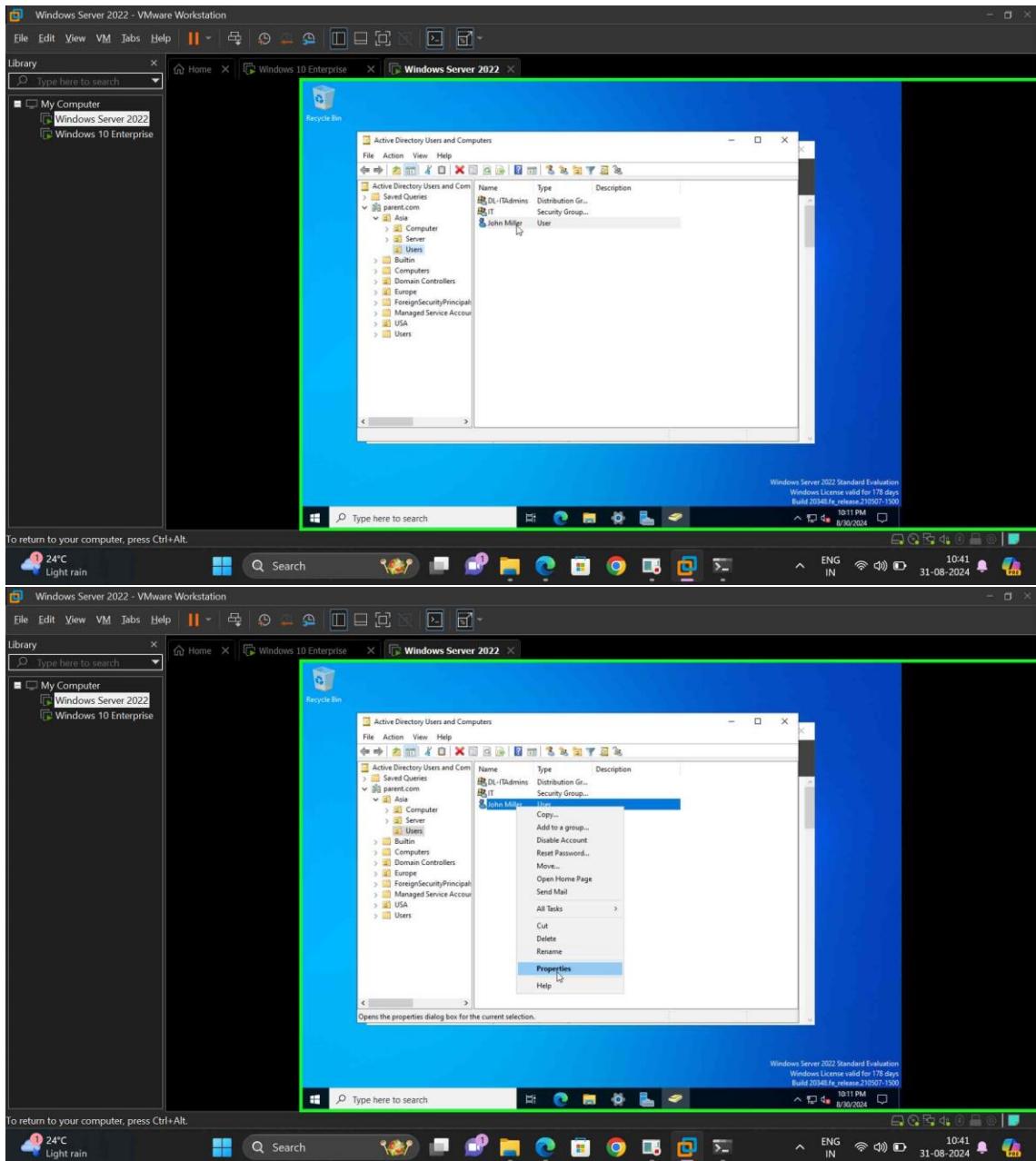


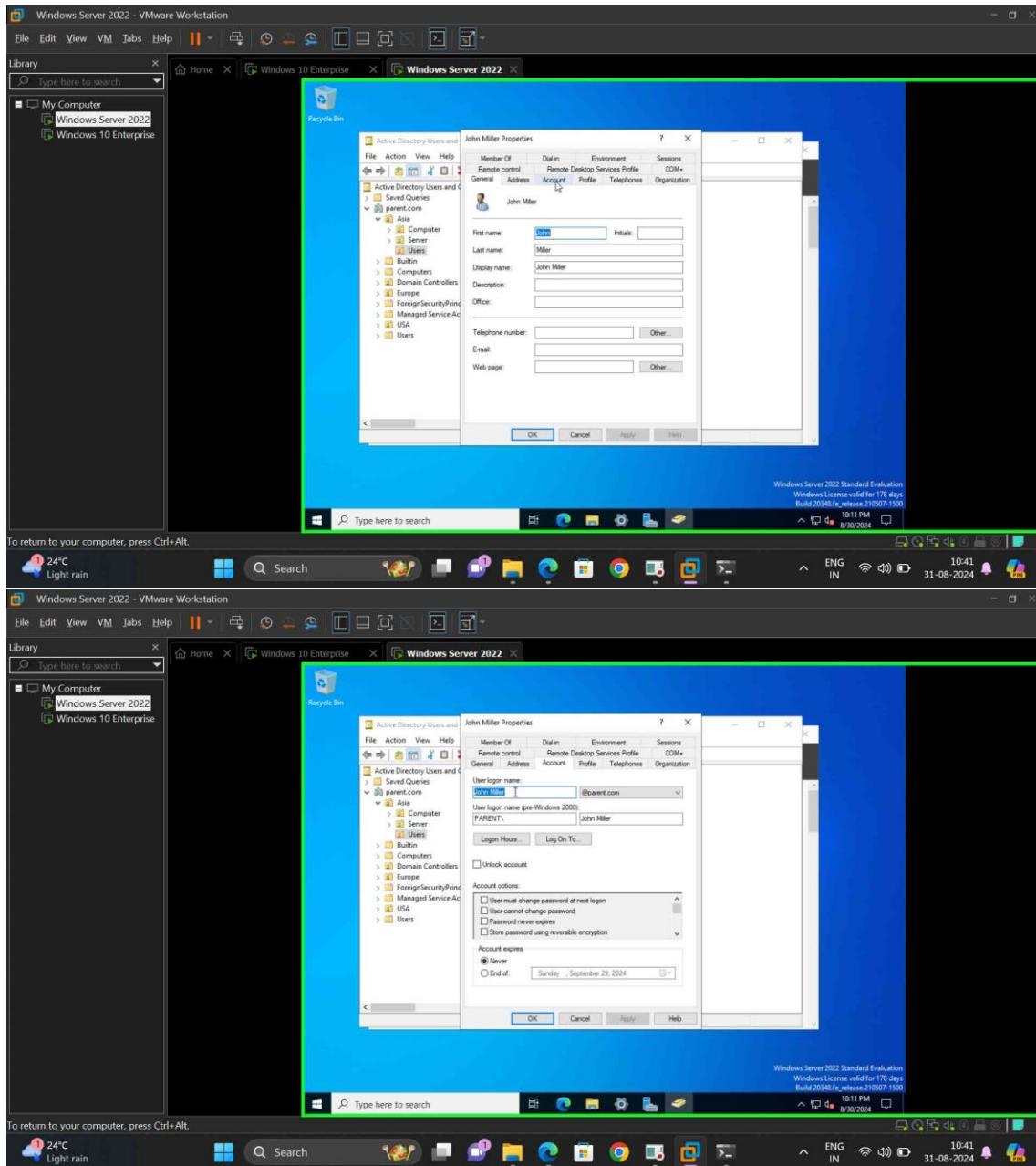
12. To view the name of computer. Just type ./ in user you can see the name.



13. Check the properties of user from the server. ADDC where in active directory user and computers.

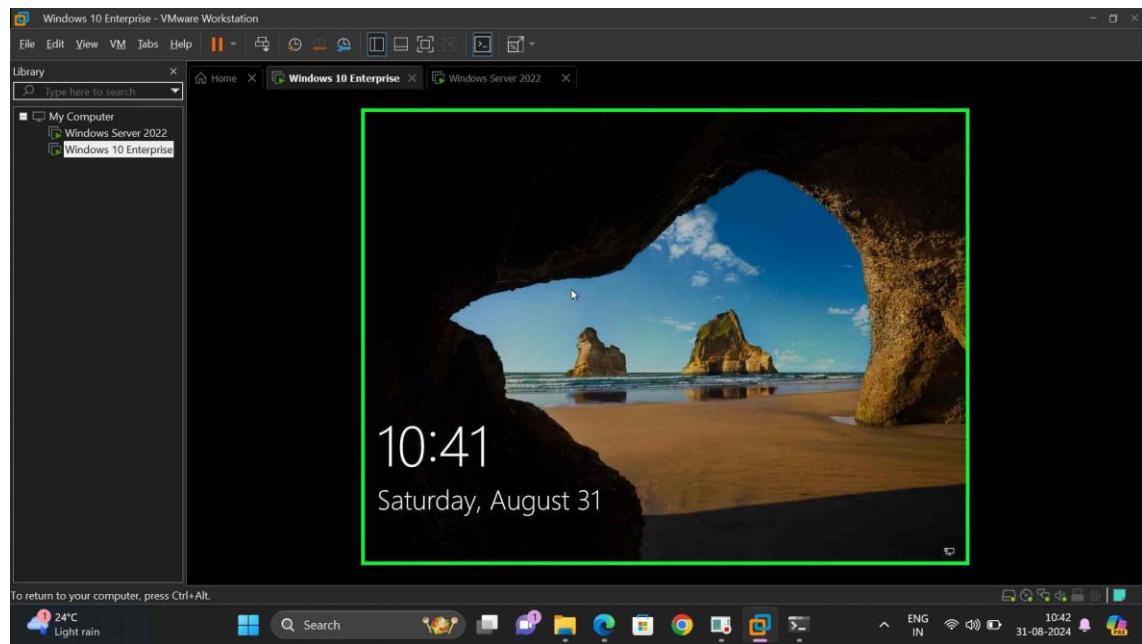
# Dinesh Gorapalli





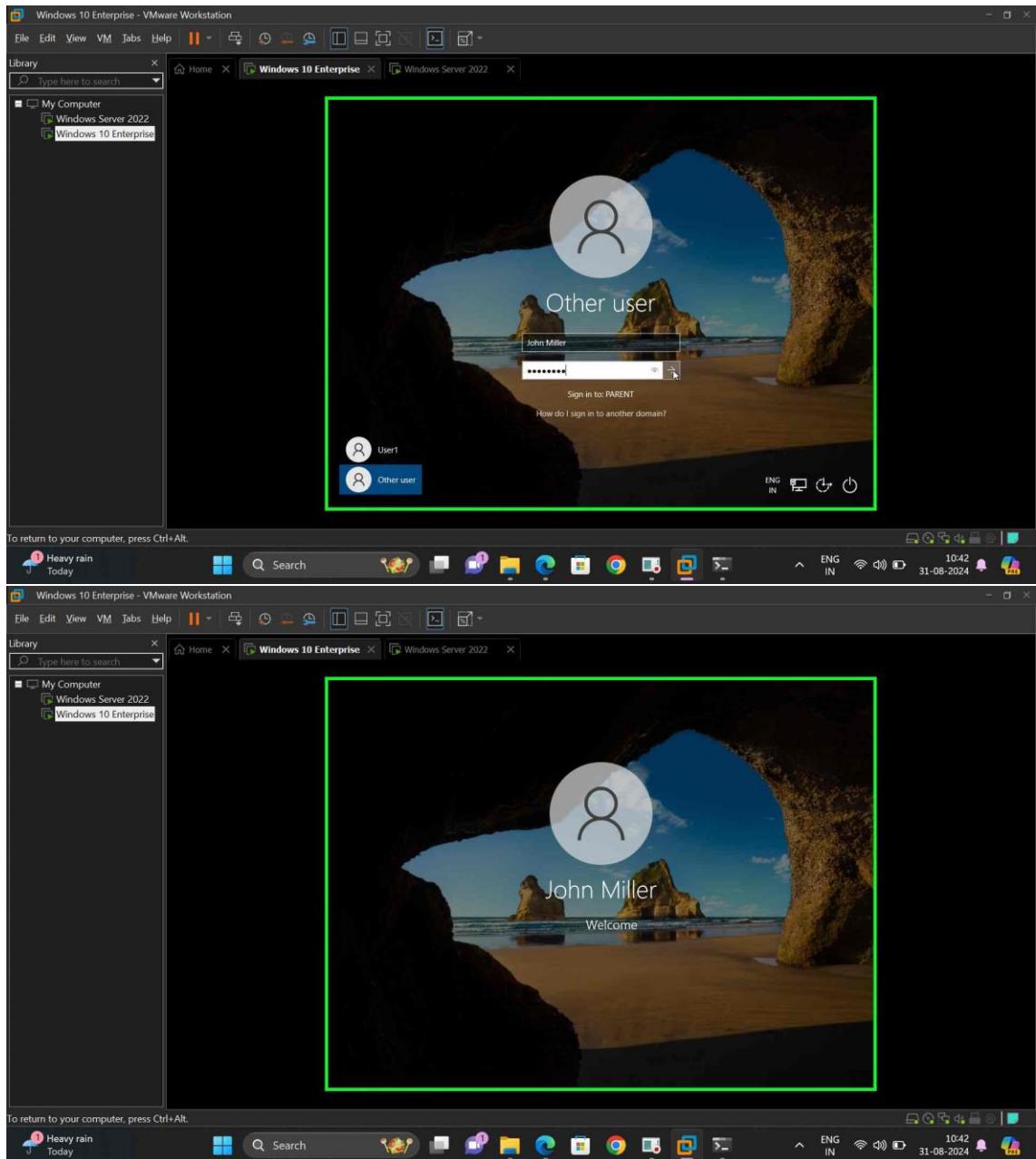
## User Login with Domain

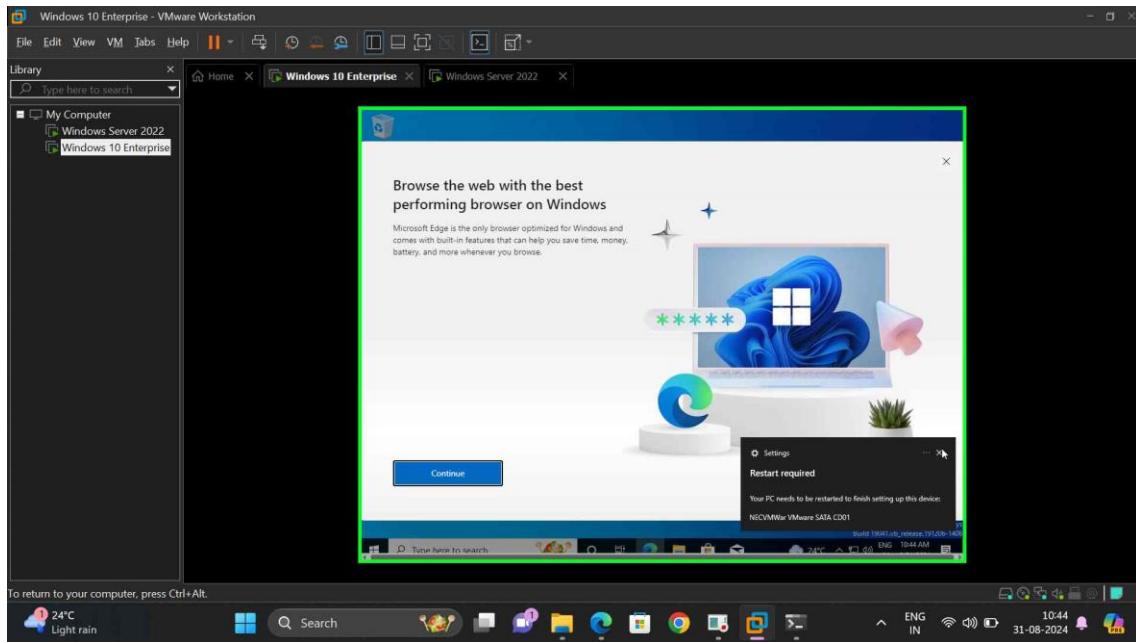
1. Now Login in to John Miller account from client desktop



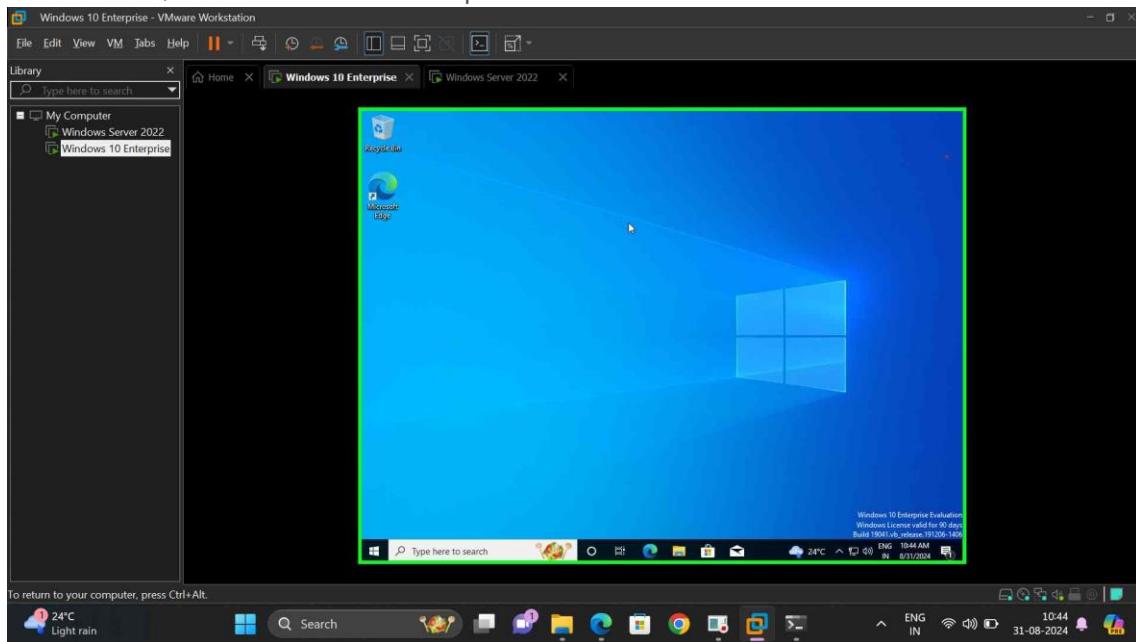
2. Select the Other user, enter the credential of John miller created.

# Dinesh Gorapalli





3. Now, we can see the desktop of User John miller.



Hence in this way we connect account with the domain.

*Thank  
you*



Dinesh Gorapalli