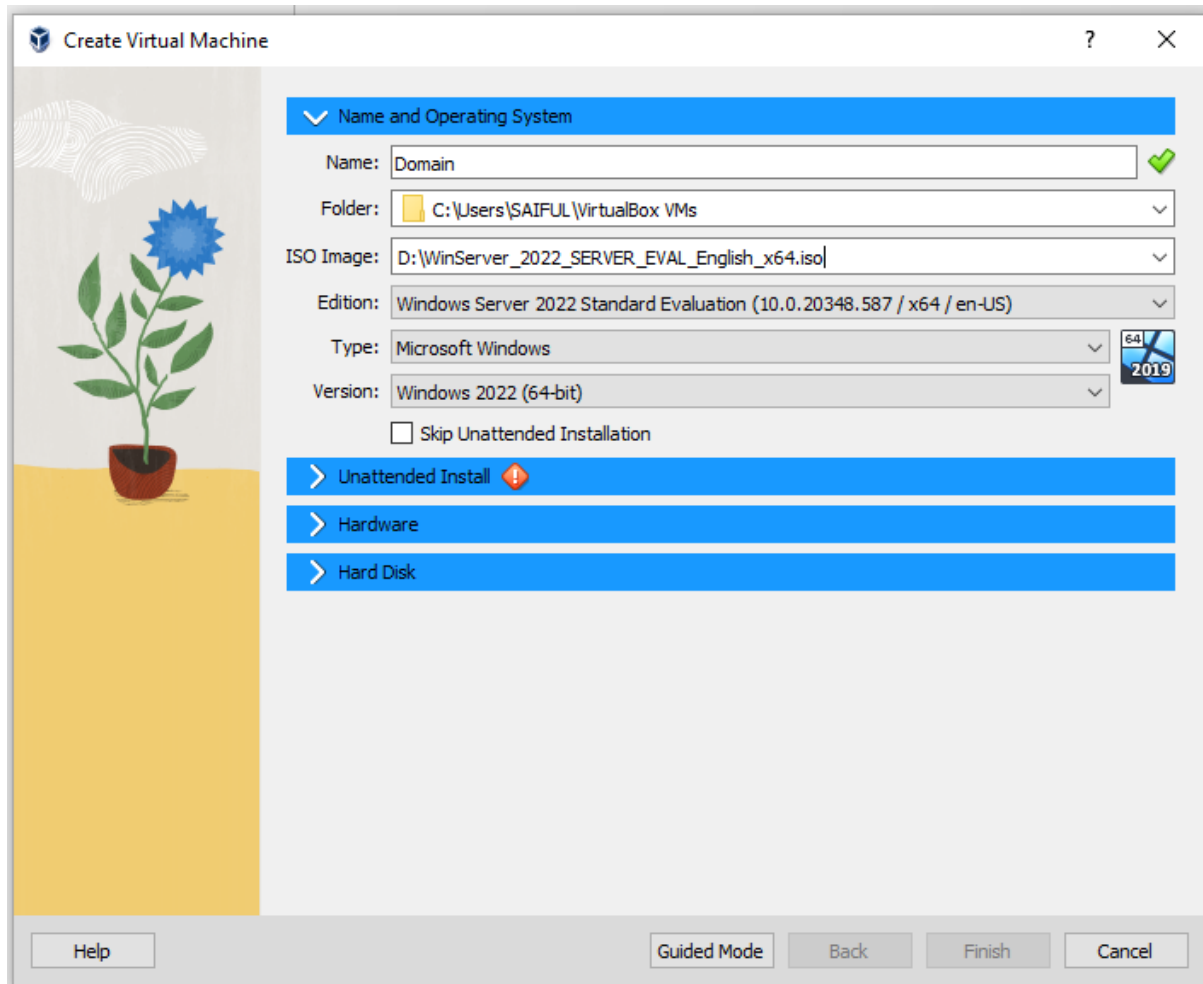
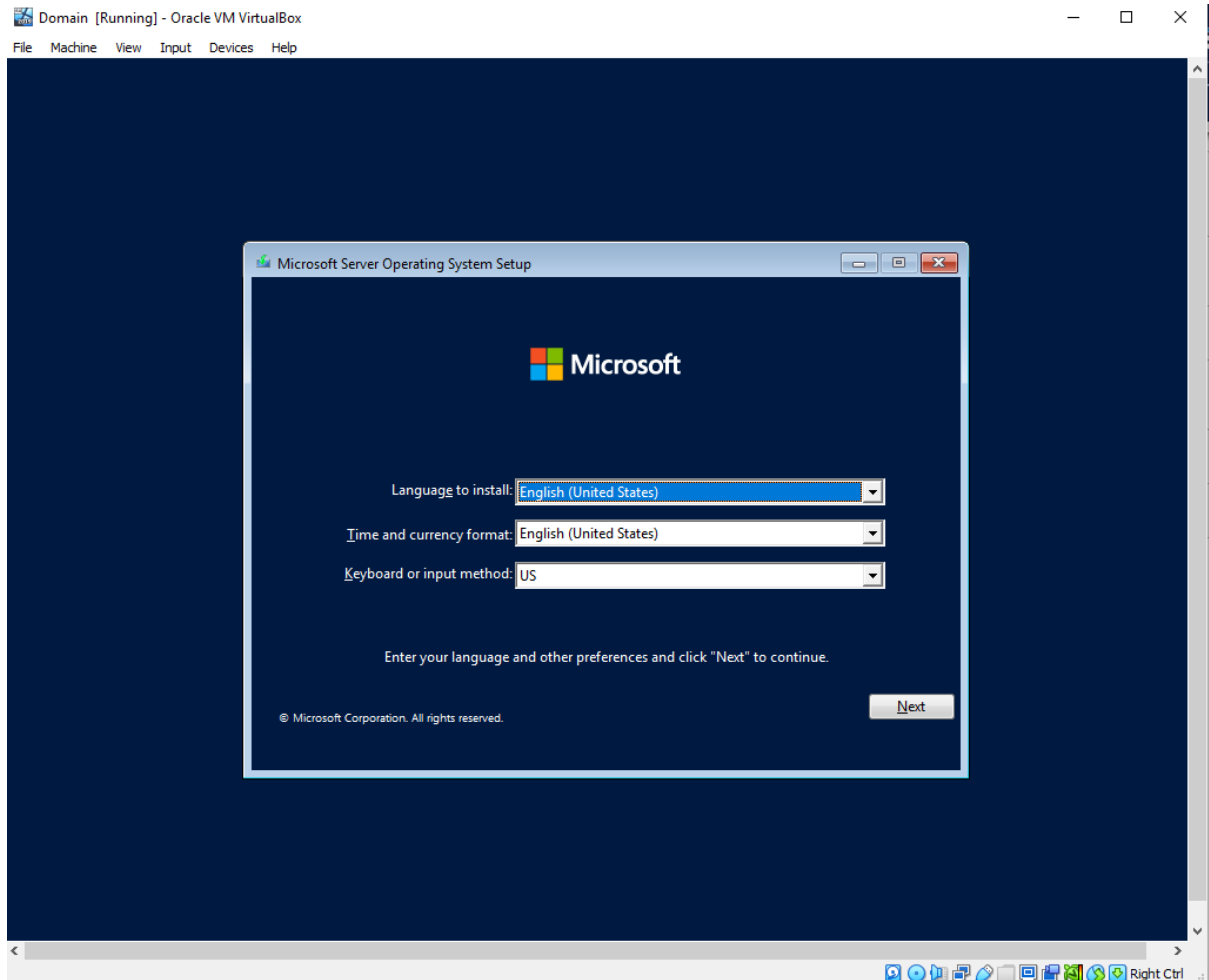


# Domain controller/ AD home LAB

# Configuring Virtual machine

- First step, is to download VirtualBox from <https://www.virtualbox.org/>
- Install VirtualBox
- Download Windows Sever 2022 iso
- Download Windows 10 Pro iso
- Installing Windows Sever in VirtualBox, follow the guide and start the VC

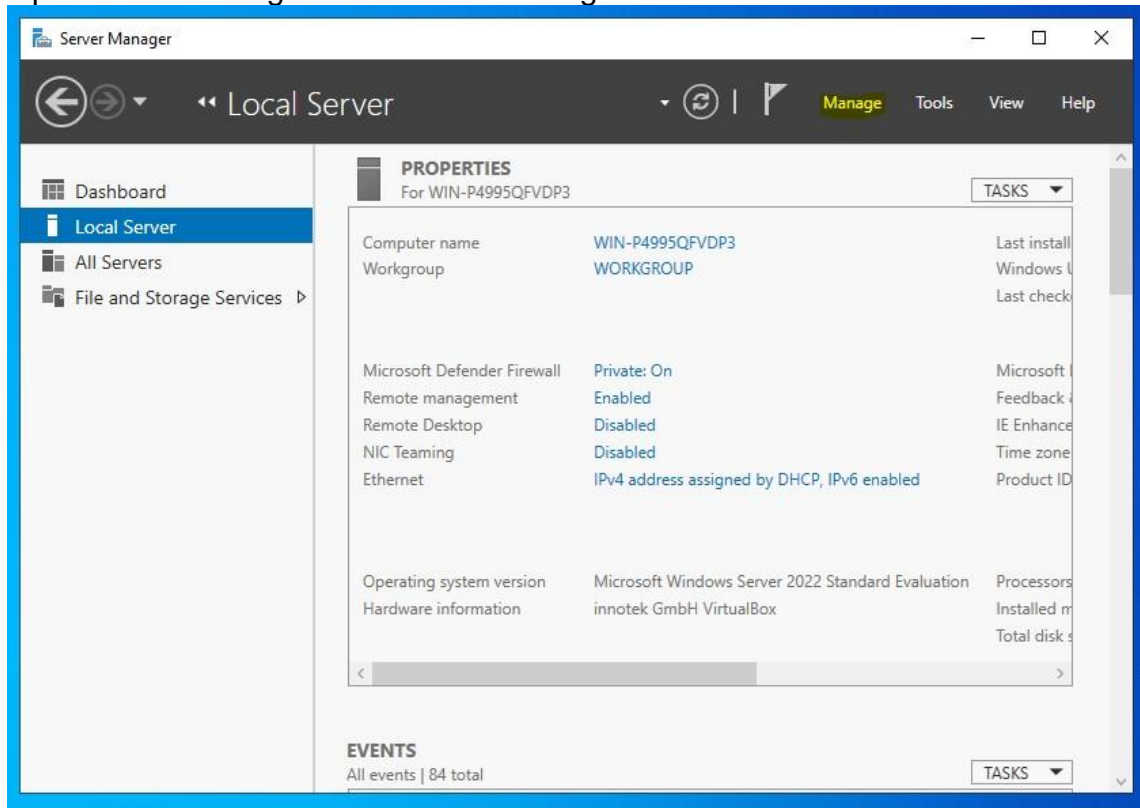




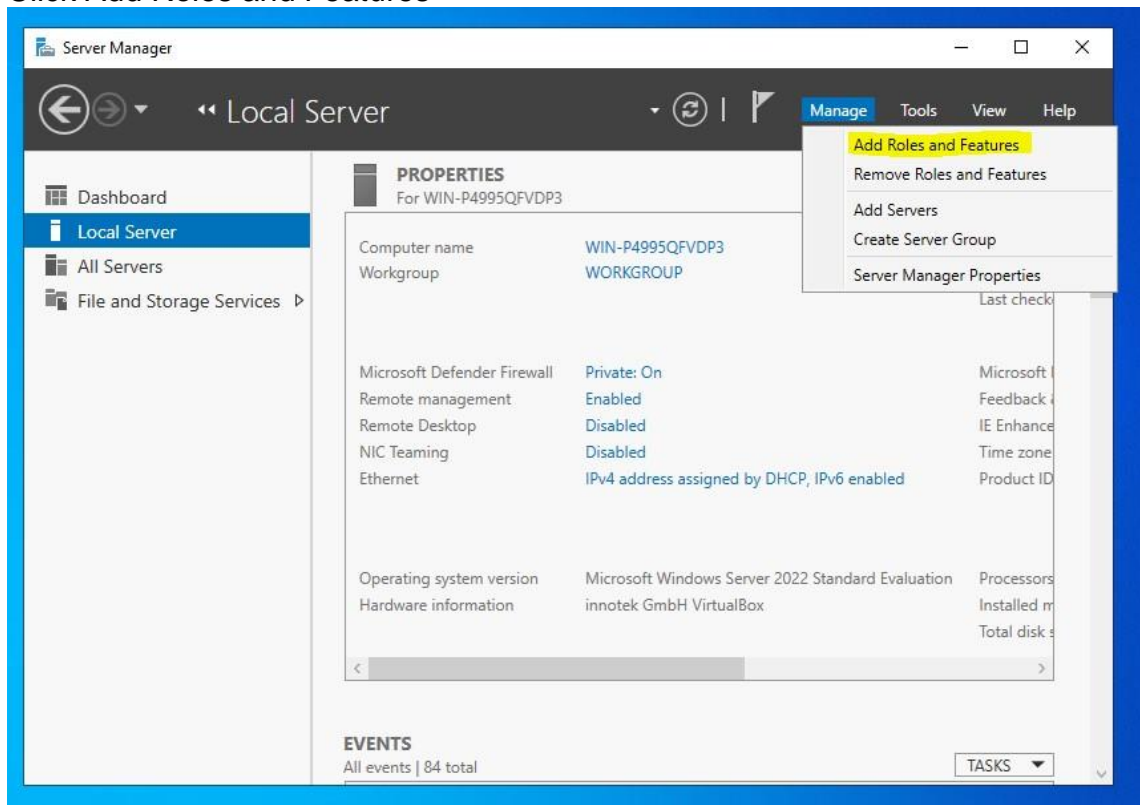
- Install windows 10 Pro – follow the installation steps until finish

# Configuring Domain controller

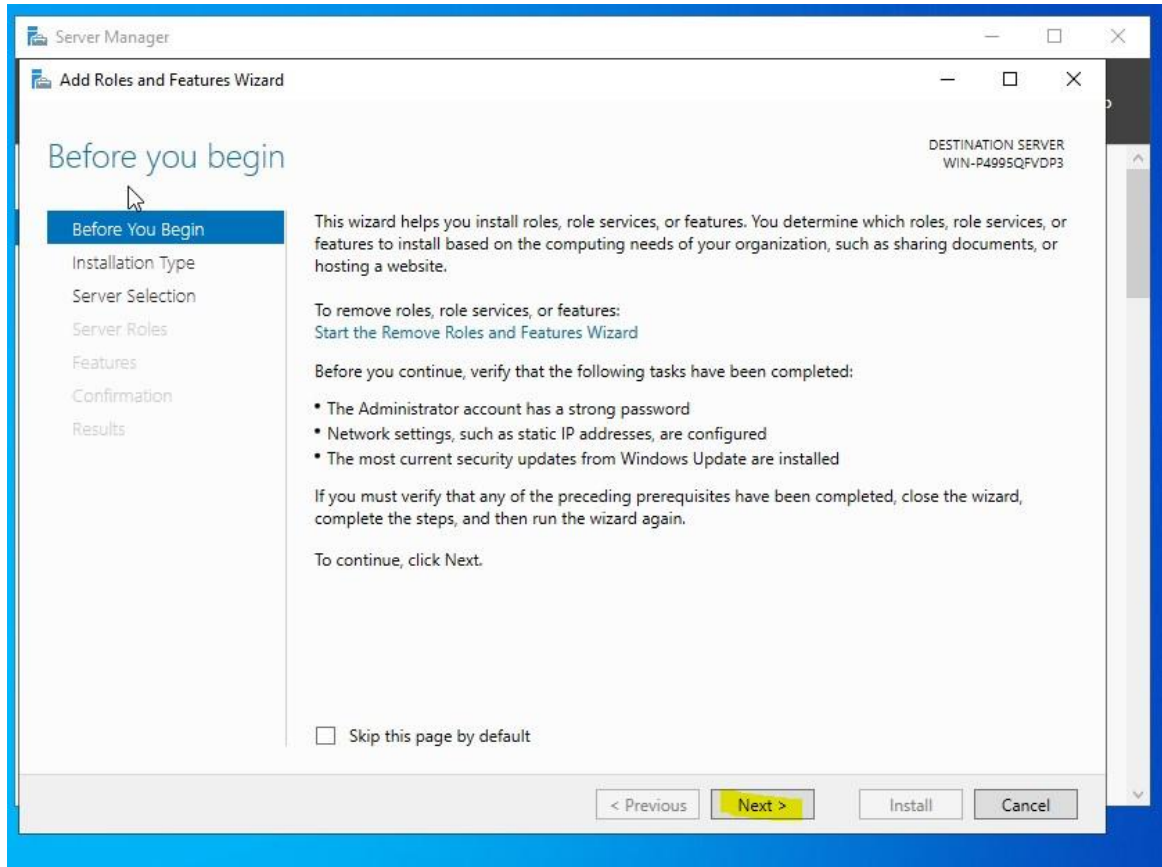
Open Server Manager and click on Manage



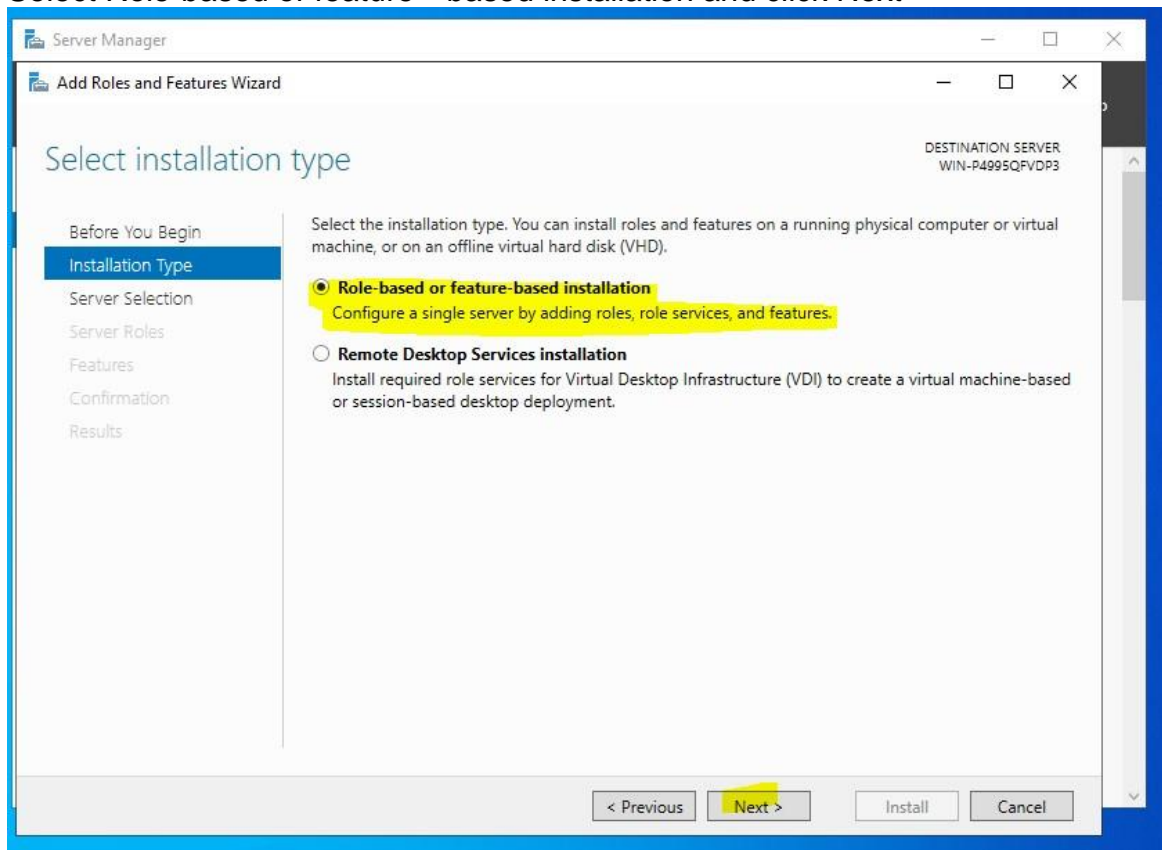
Click Add Roles and Features



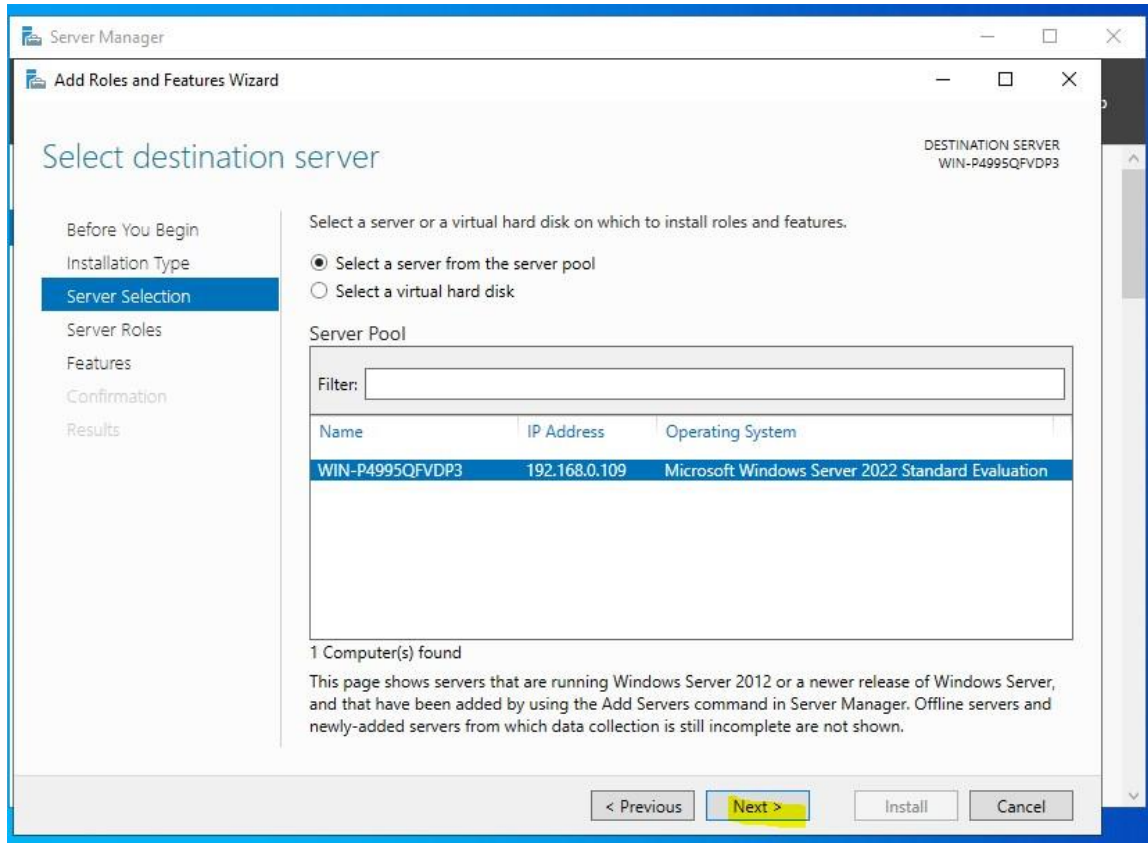
Click Next



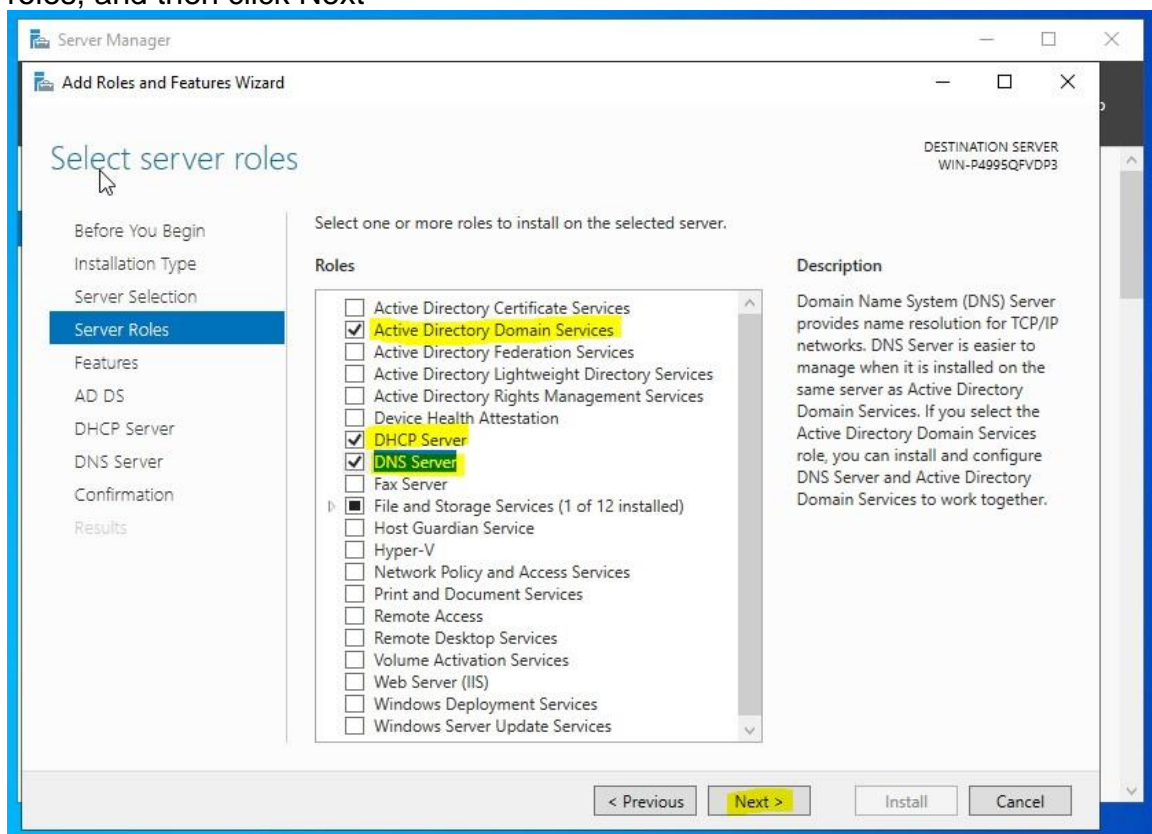
Select Role-based or feature—based installation and click Next



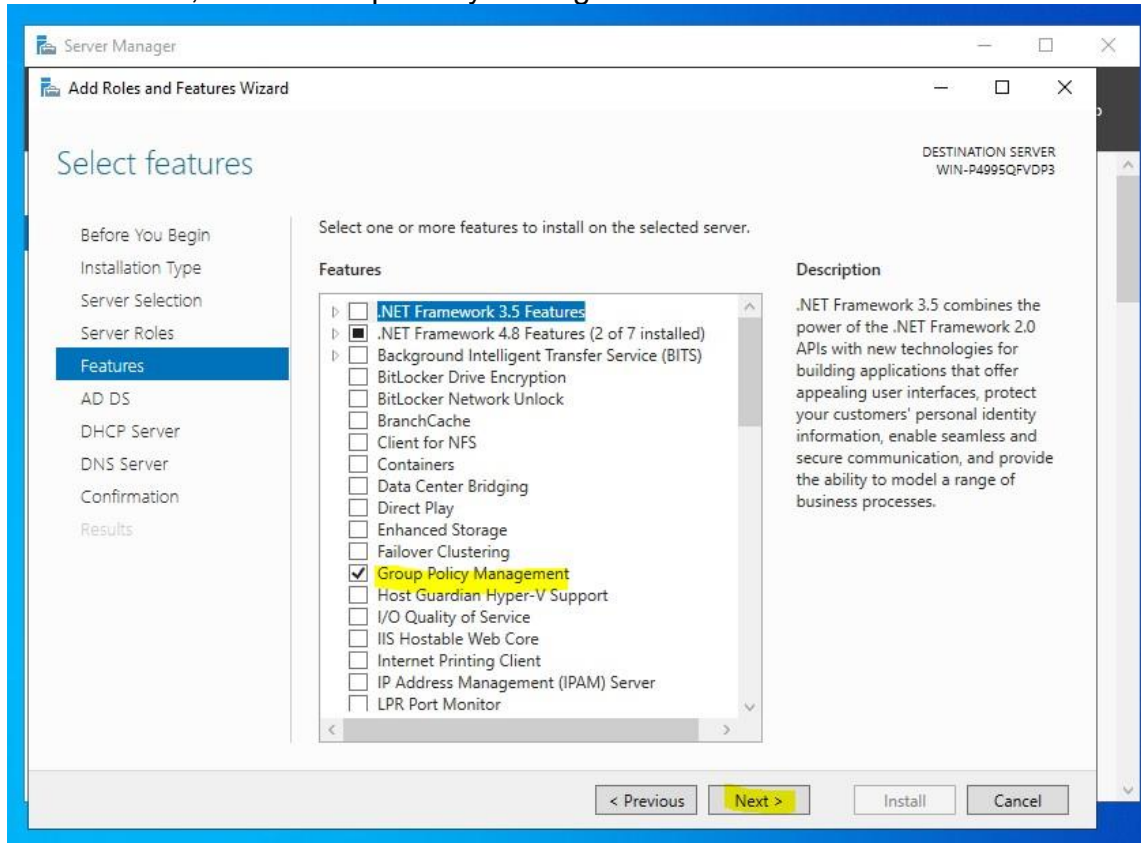
Click Next



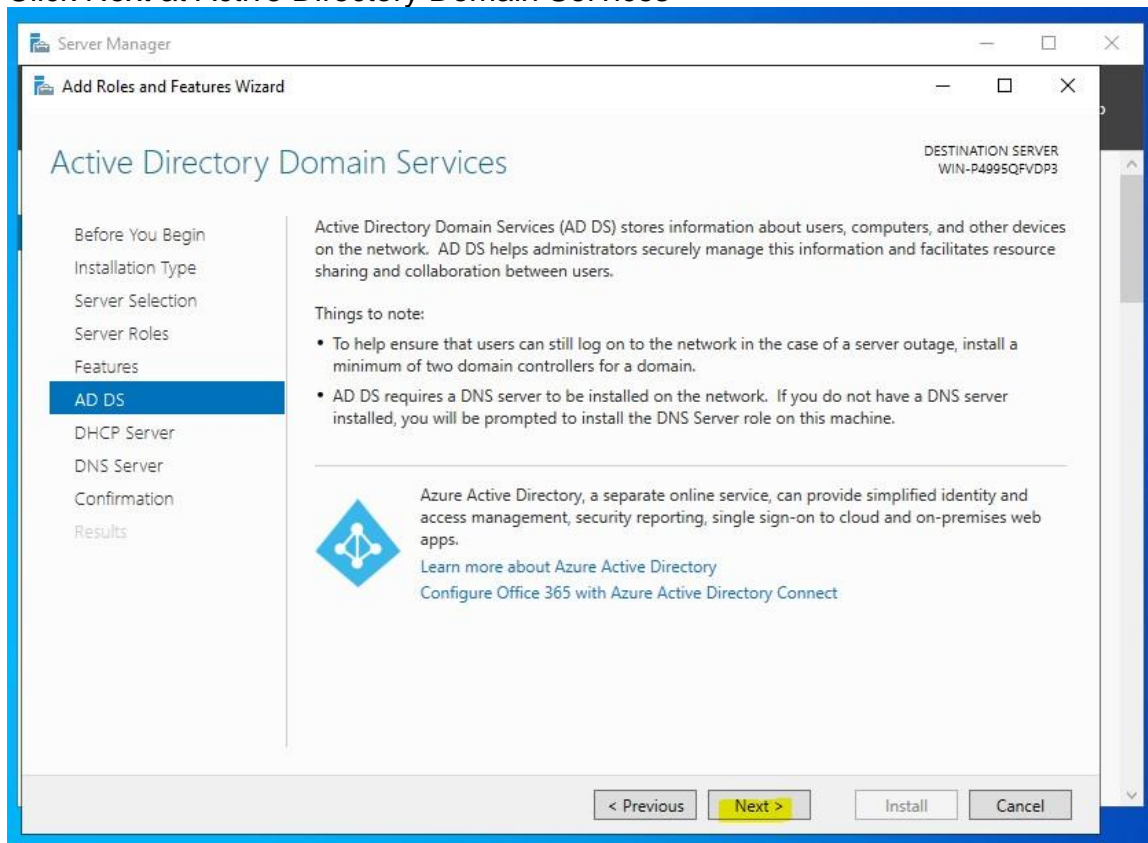
Select Active Directory Domain services, DHCP and DNS server in Select server roles, and then click Next



For Features, select Group Policy Management and click Next

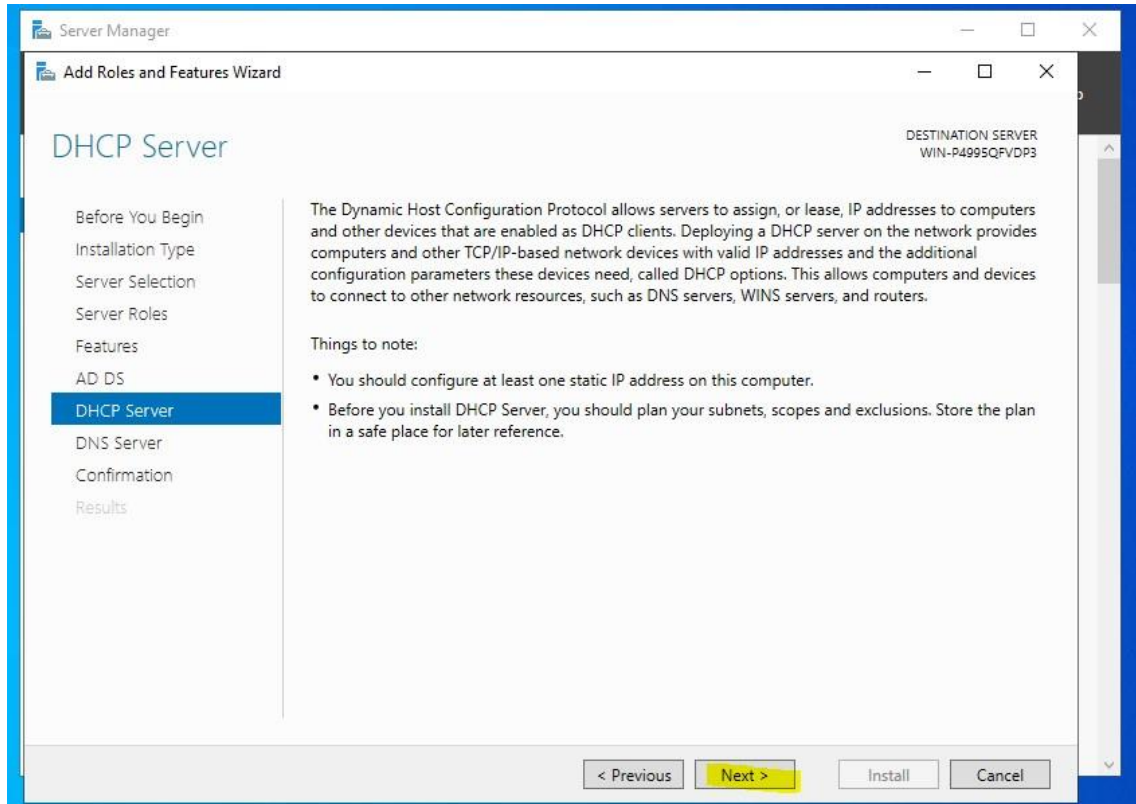


Click Next at Active Directory Domain Services

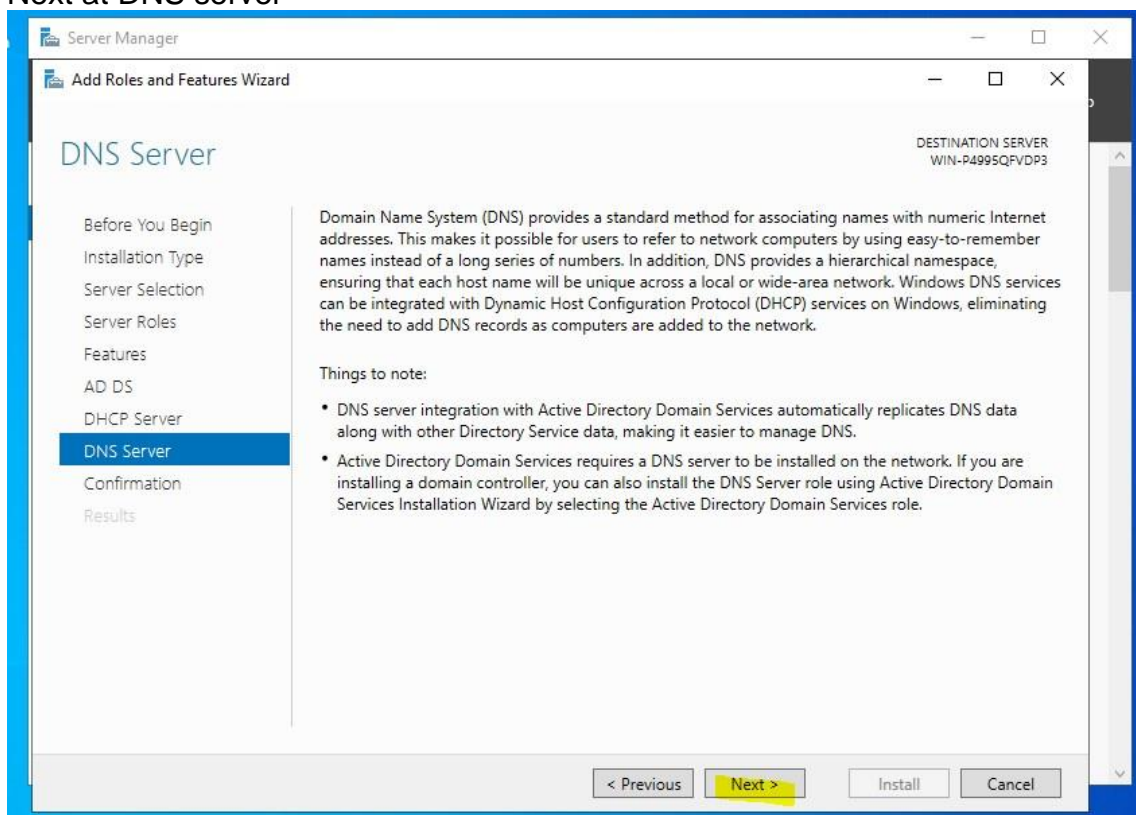




## Next at DHCP server

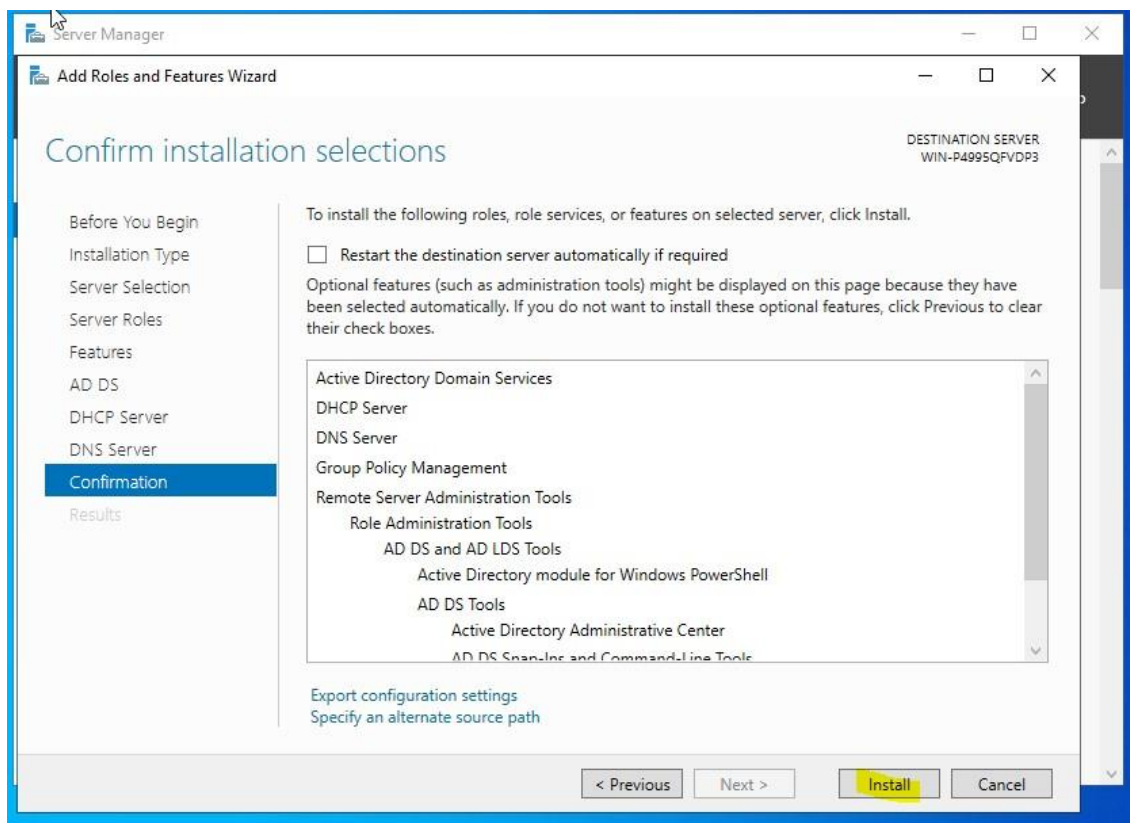


## Next at DNS server

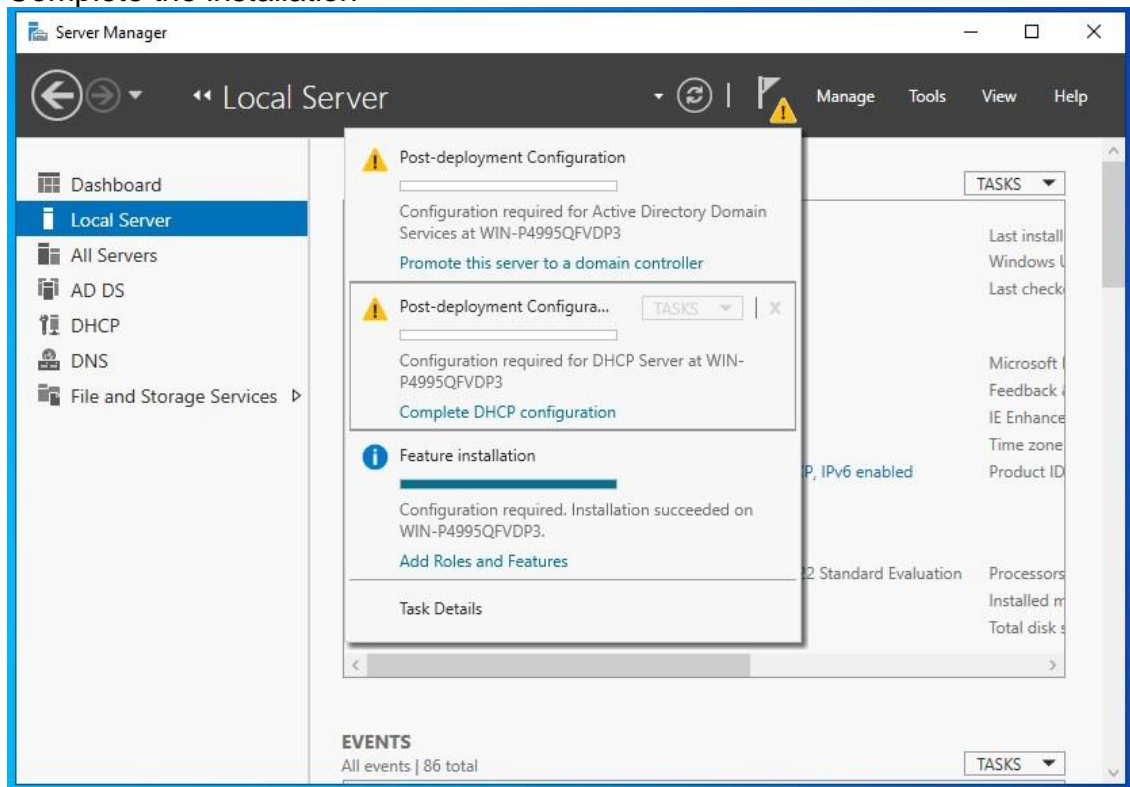




Confirm Installation selections, click Install



Complete the installation



## Specify the Domain information and Add new forest and click Next

The screenshot shows the 'Deployment Configuration' step of the 'Active Directory Domain Services Configuration Wizard'. The left sidebar contains a list of steps: 'Deployment Configuration' (selected), 'Domain Controller Options', 'Additional Options', 'Paths', 'Review Options', 'Prerequisites Check', 'Installation', and 'Results'. The main area is titled 'Deployment Configuration' and contains the following elements:

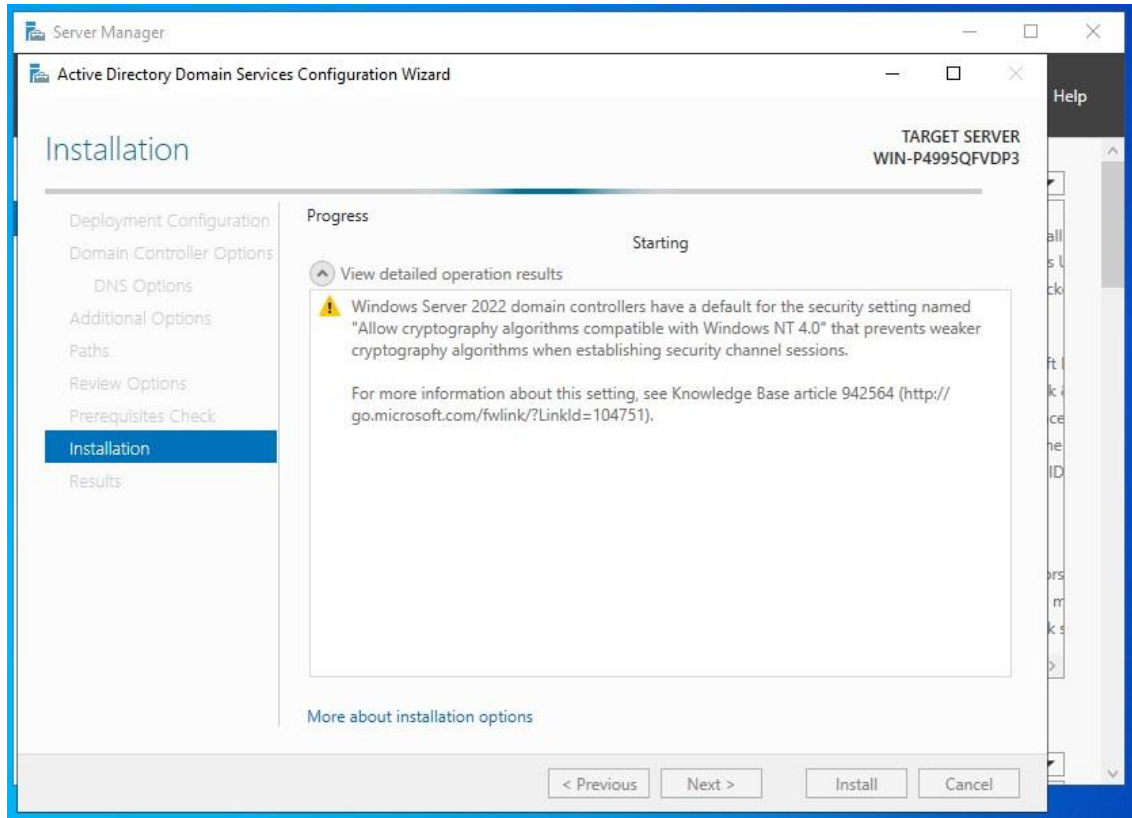
- Target Server:** WIN-P4995QFVDP3
- Select the deployment operation:** Three radio buttons are present: 'Add a domain controller to an existing domain', 'Add a new domain to an existing forest', and 'Add a new forest' (which is selected and highlighted in yellow).
- Specify the domain information for this operation:** A text box labeled 'Root domain name:' contains the text 'SAIFULLABNET' (highlighted in yellow).
- Buttons:** At the bottom, there are four buttons: '< Previous', 'Next >' (highlighted in yellow), 'Install', and 'Cancel'.

## Configure the password

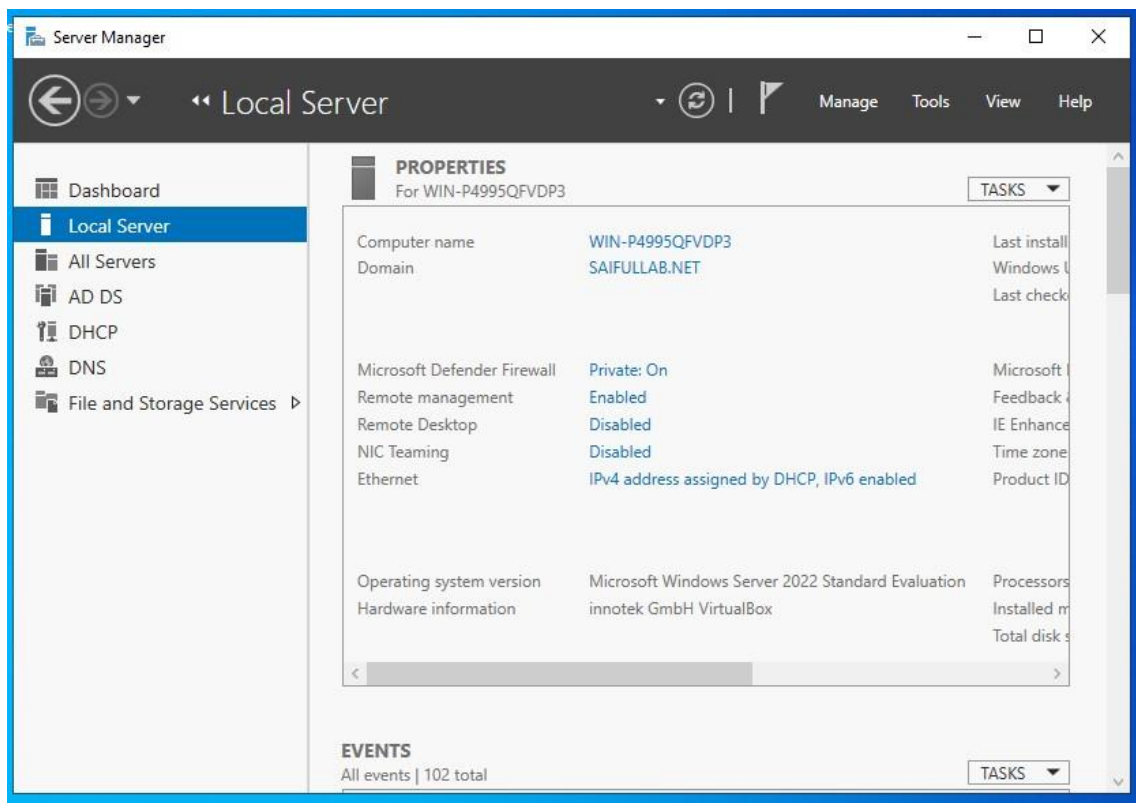
The screenshot shows the 'Domain Controller Options' step of the 'Active Directory Domain Services Configuration Wizard'. The left sidebar contains a list of steps: 'Deployment Configuration', 'Domain Controller Options' (selected), 'DNS Options', 'Additional Options', 'Paths', 'Review Options', 'Prerequisites Check', 'Installation', and 'Results'. The main area is titled 'Domain Controller Options' and contains the following elements:

- Target Server:** WIN-P4995QFVDP3
- Select functional level of the new forest and root domain:** Two dropdown menus are present: 'Forest functional level:' and 'Domain functional level:', both set to 'Windows Server 2016'.
- Specify domain controller capabilities:** Three checkboxes are present: 'Domain Name System (DNS) server' (checked), 'Global Catalog (GC)' (checked), and 'Read only domain controller (RODC)' (unchecked).
- Type the Directory Services Restore Mode (DSRM) password:** Two text boxes are present: 'Password:' and 'Confirm password:'. Both boxes contain masked text (yellowed out) and are marked with an asterisk (\*) to indicate they are required fields.
- Buttons:** At the bottom, there are four buttons: '< Previous', 'Next >', 'Install', and 'Cancel'.

Click Next until Install button is enable and click Install

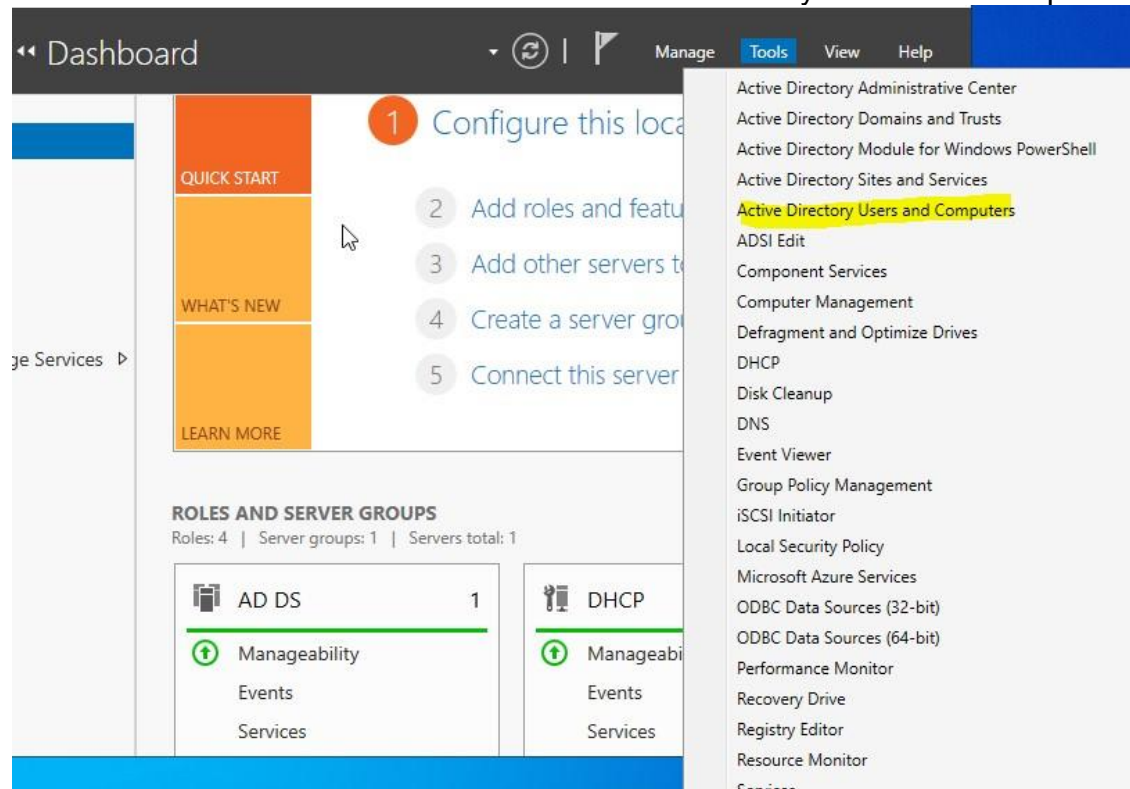


System will prompt to signed out, and re sign in to the DC, steps completed

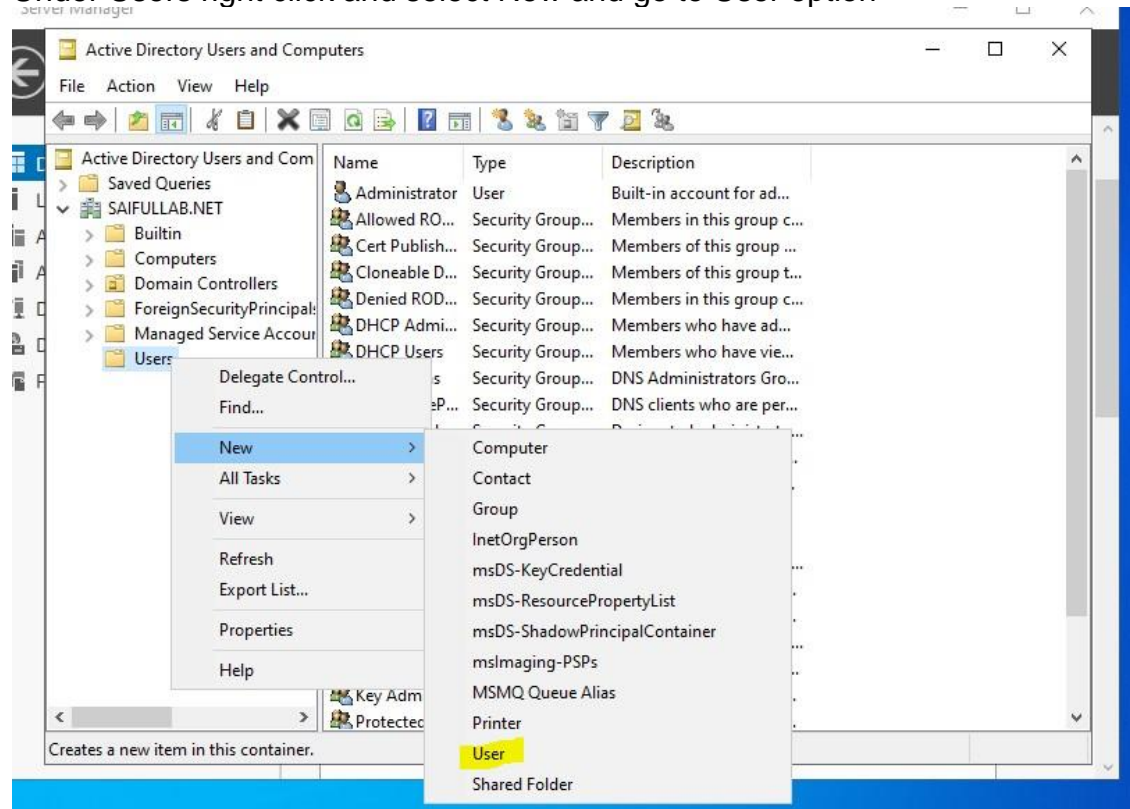


# Create Users

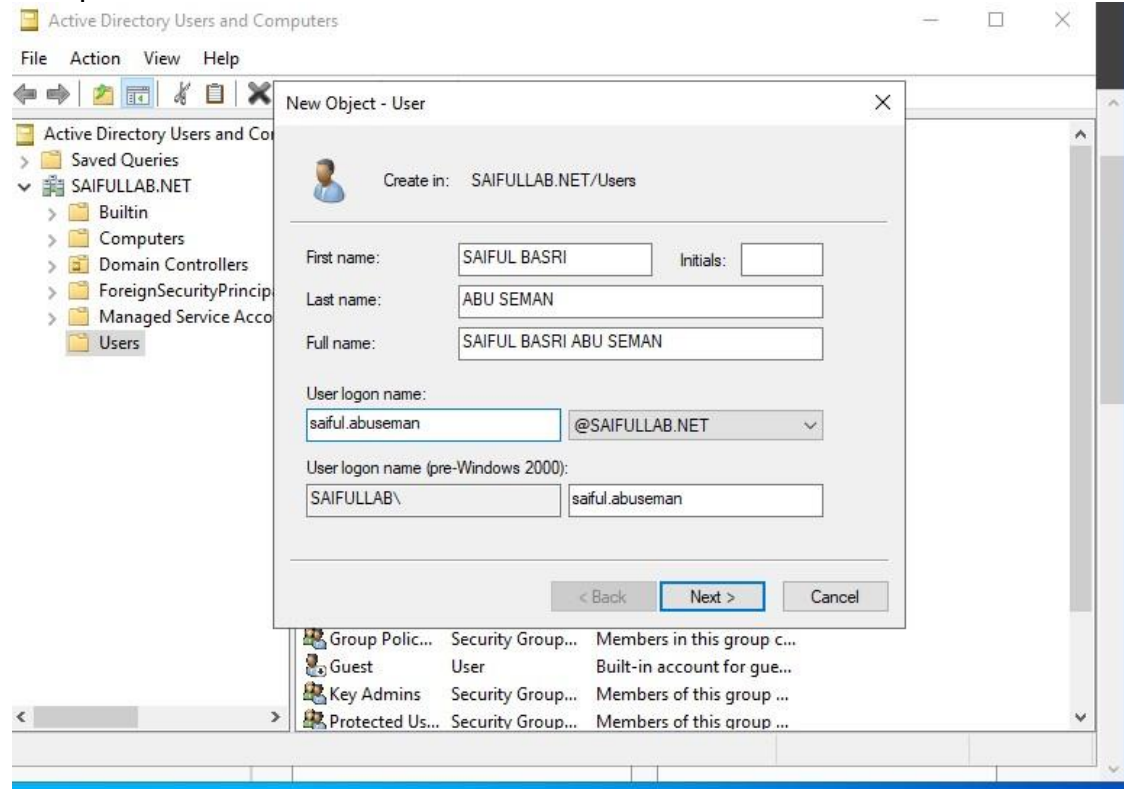
Click Tools on DC dashboard and select Active Directory Users and Computers



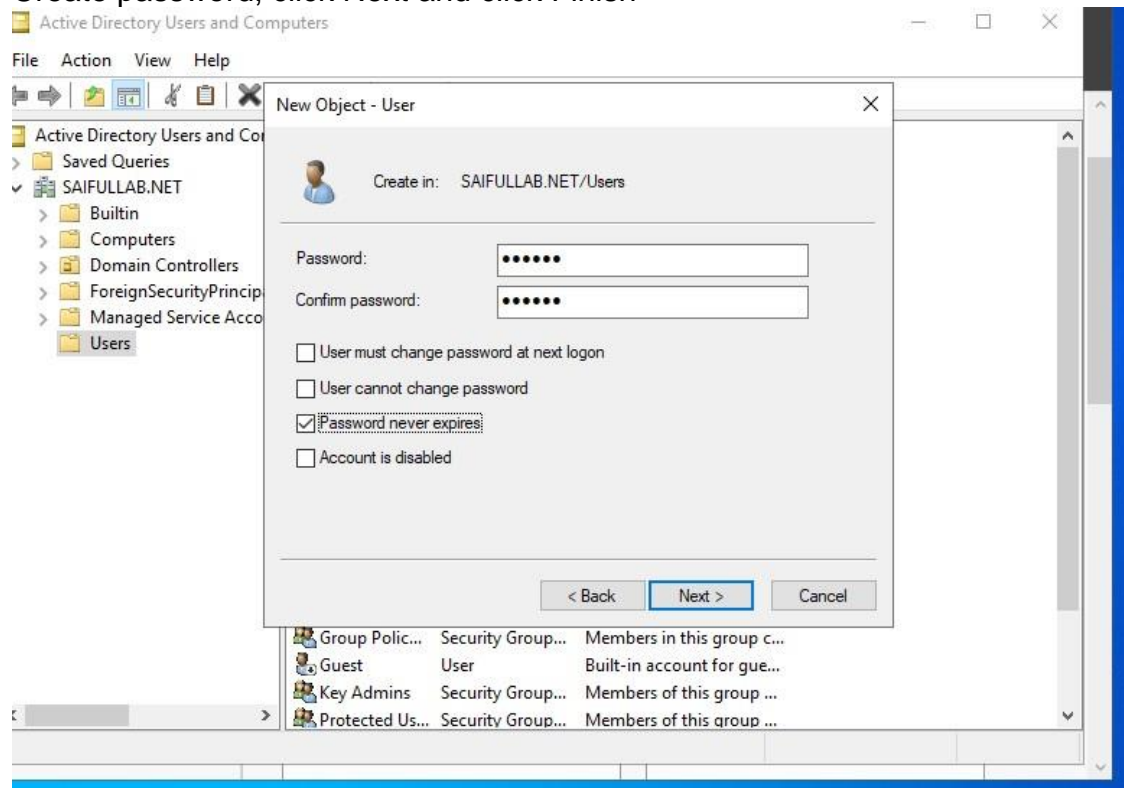
Under Users right click and select New and go to User option



## Fill up user details

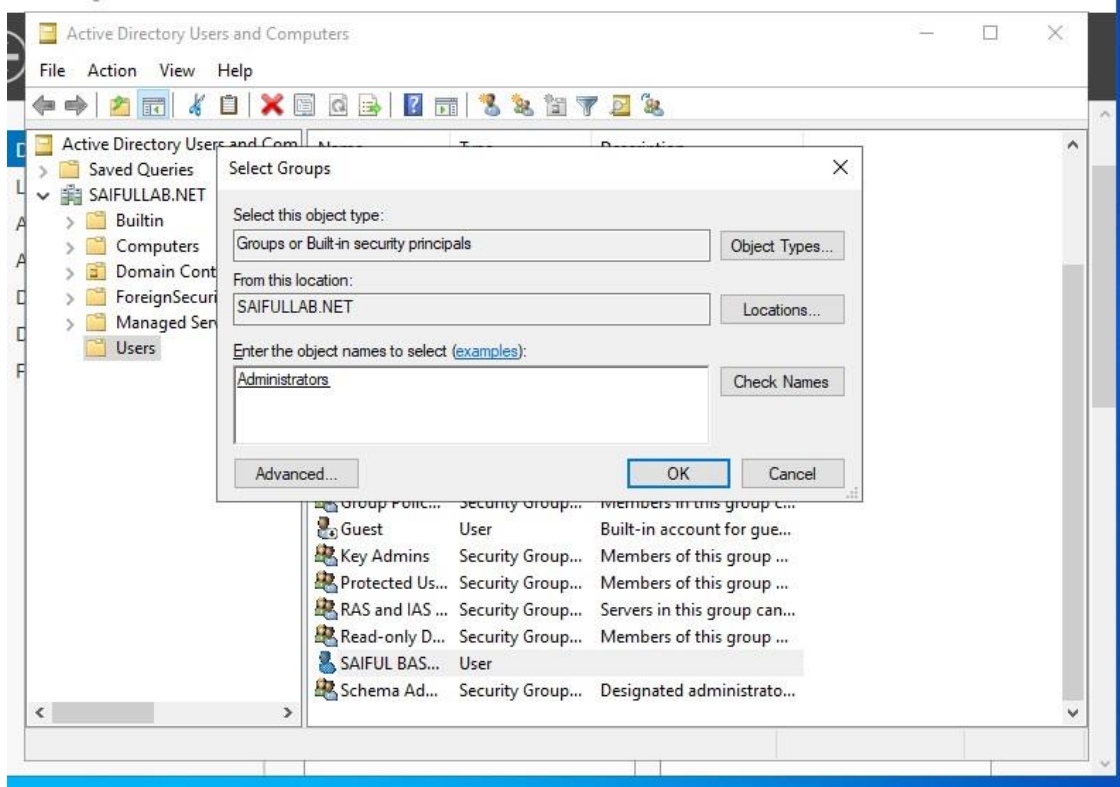


## Create password, click Next and click Finish





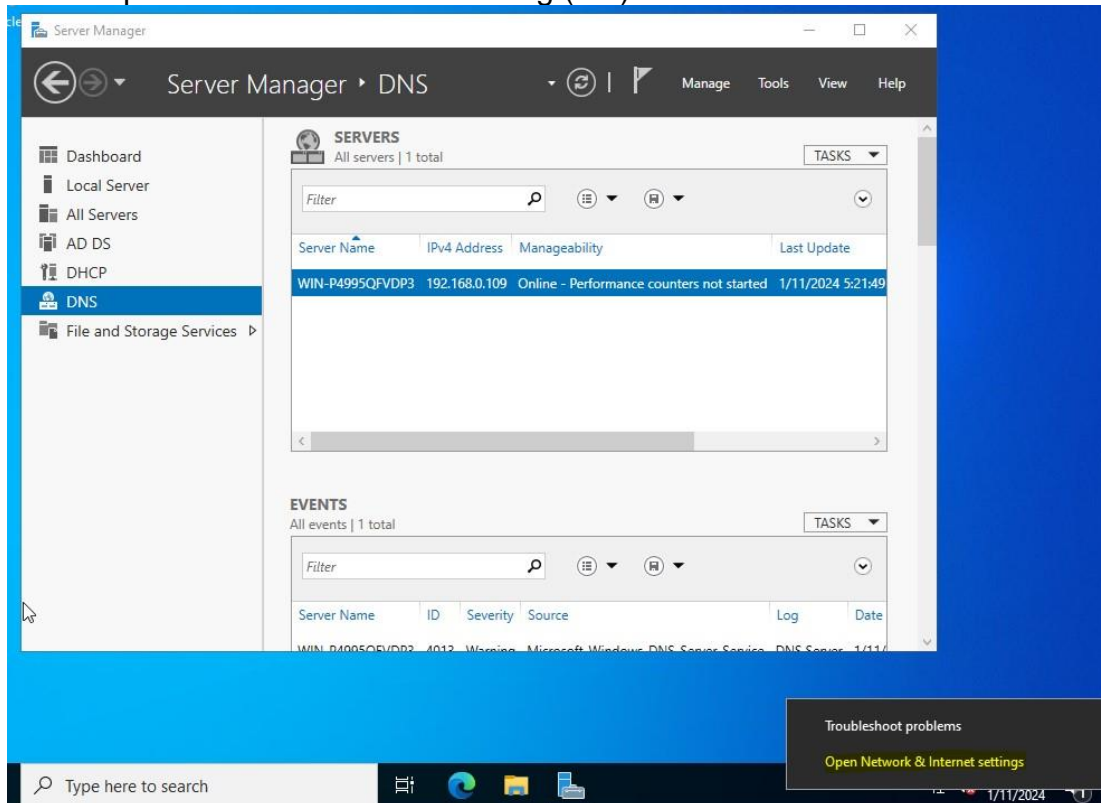
## Insert user in Administrator group



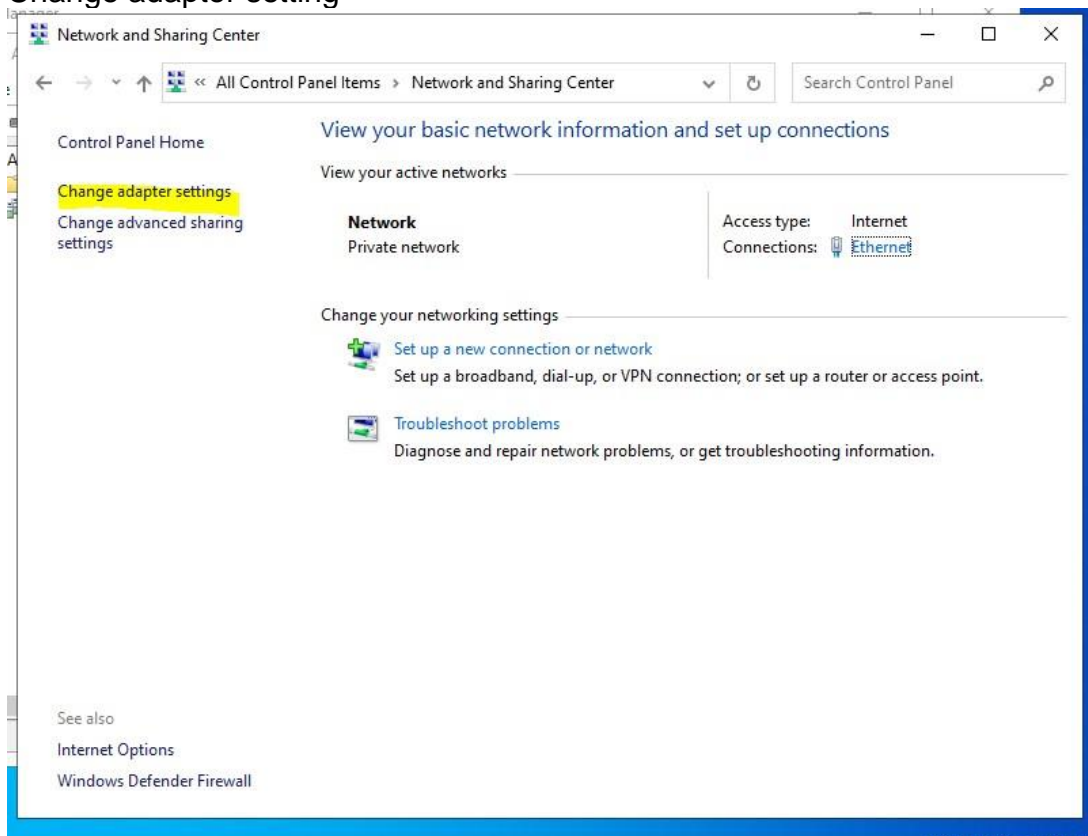


# Configuring Static IP

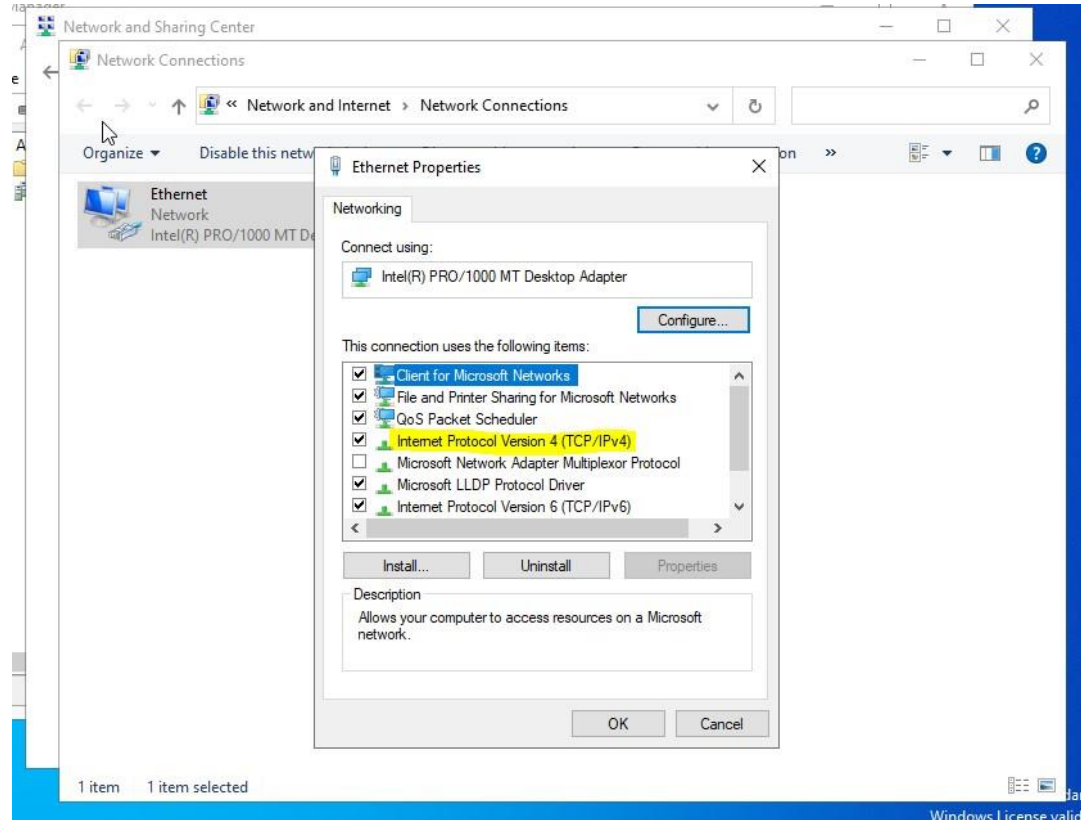
Click Open Network & Internet setting (DC)



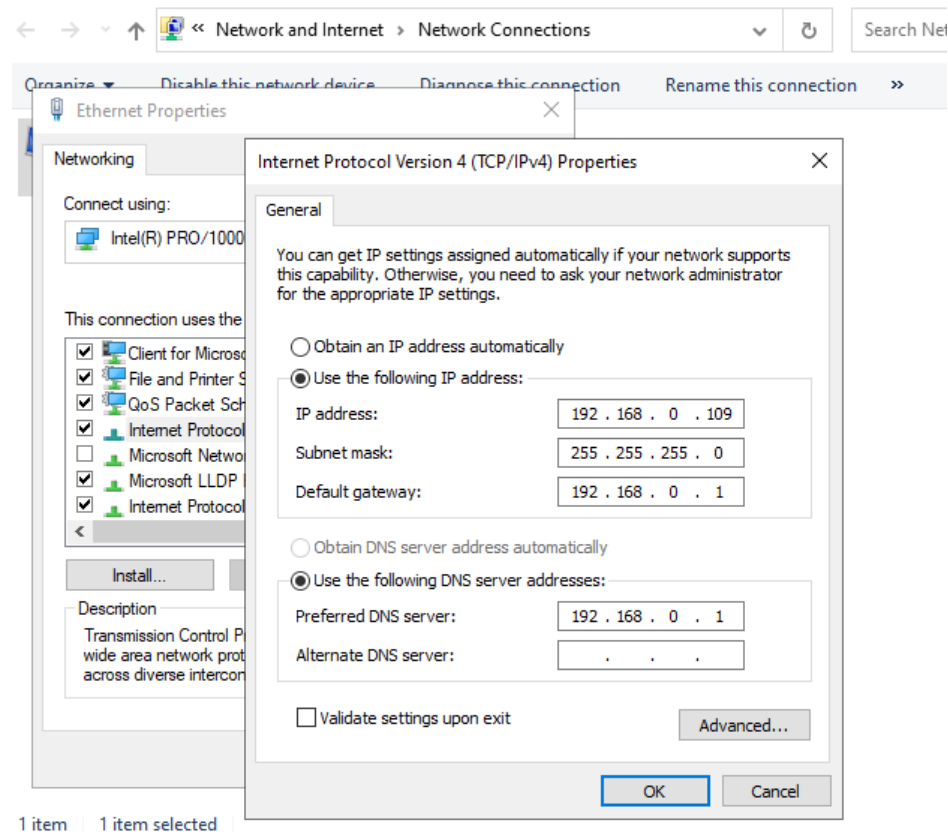
## Change adaptor setting



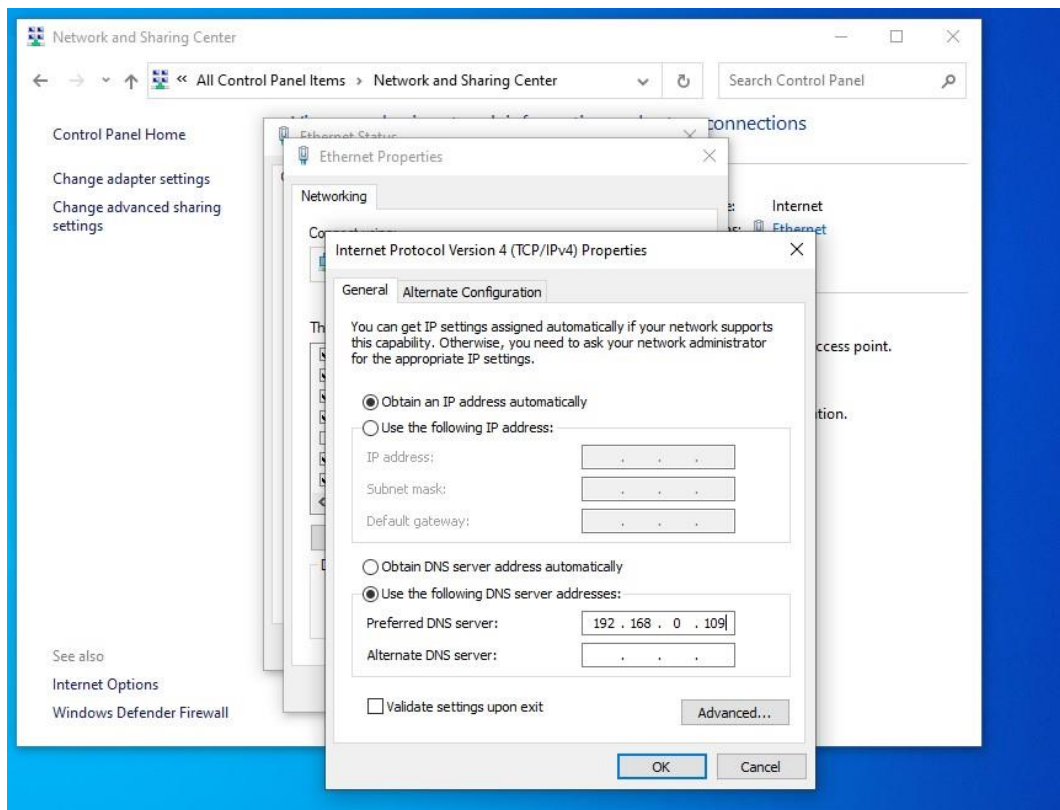
## Click Internet Protocol Version 4



Configure IP address and DNS, since we are using bridge Network, the IP will refer the modem IP address

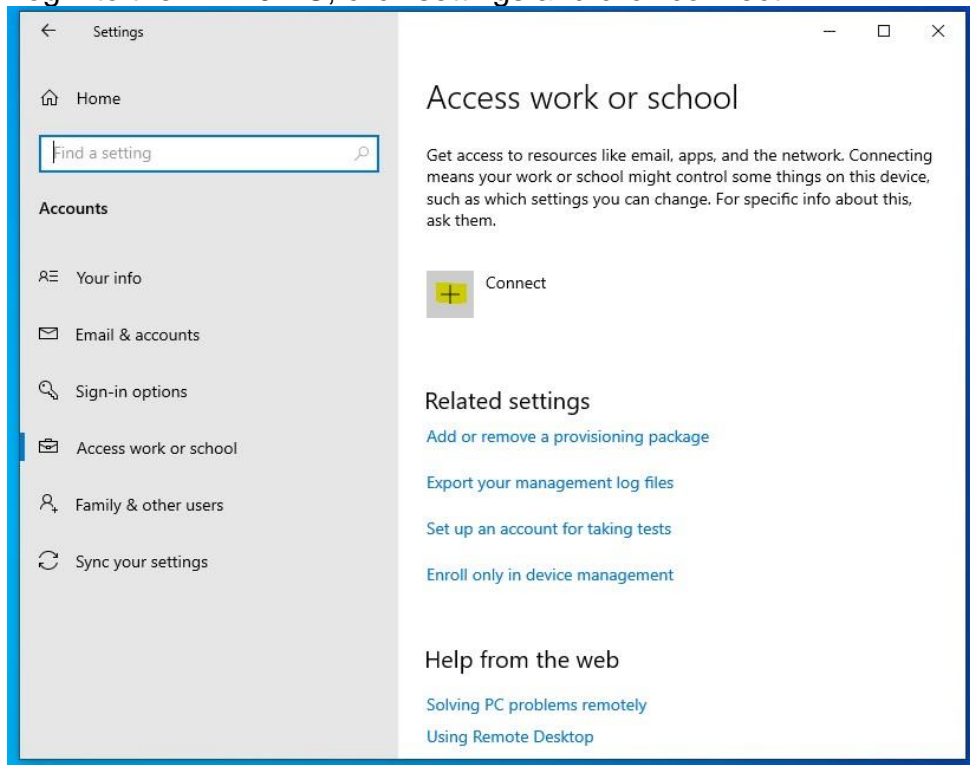


Last steps are to configure DNS for Win10 VC so that it will be able to communicate with the DC

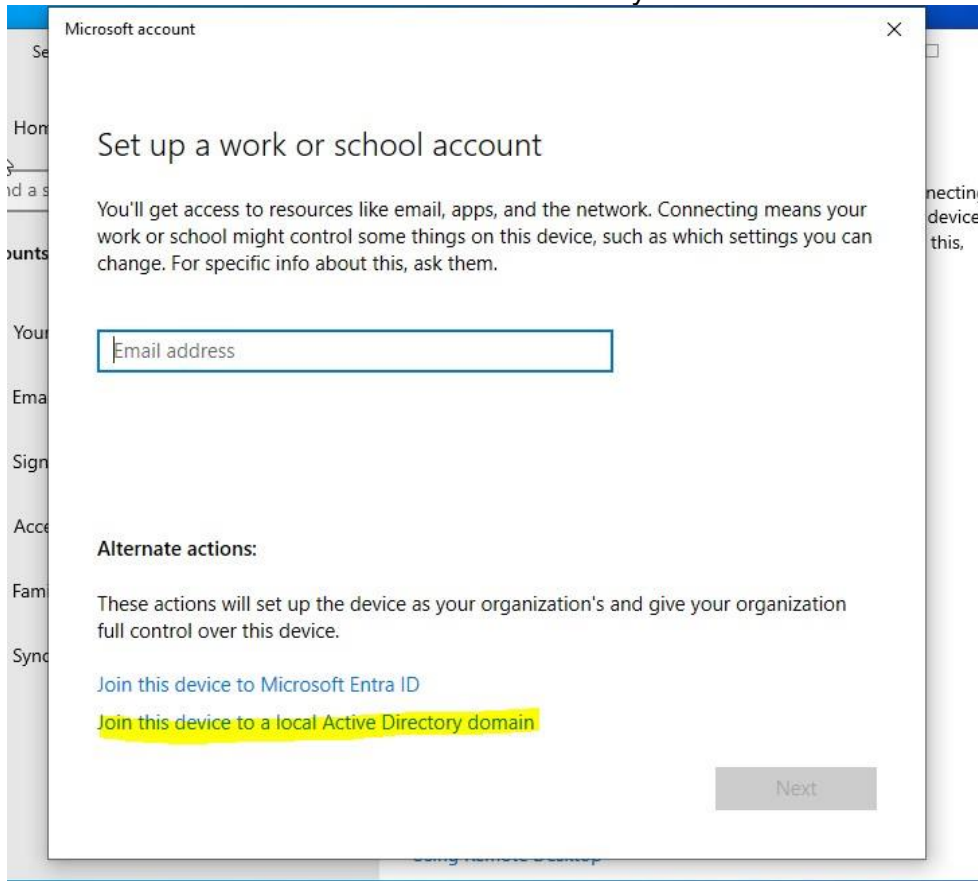


# Join Domain

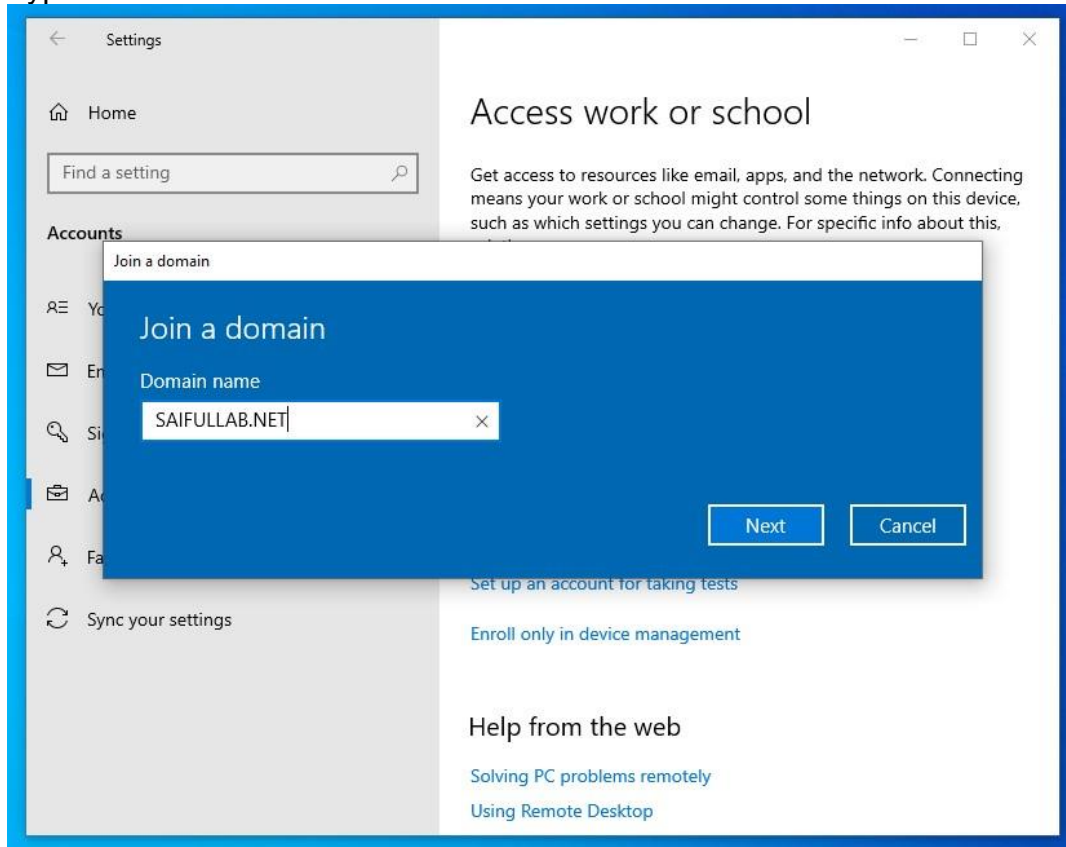
Login to the Win10 VC, click settings and click connect



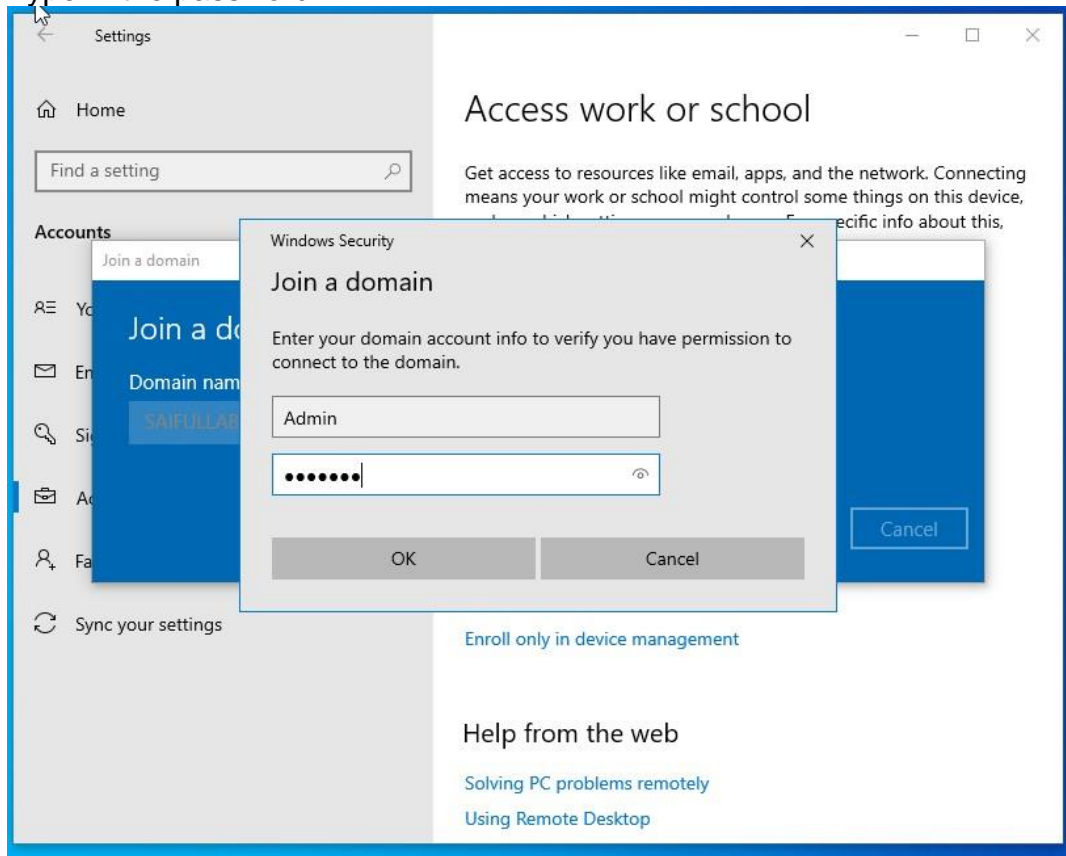
Click Join this device to local Active Directory domain



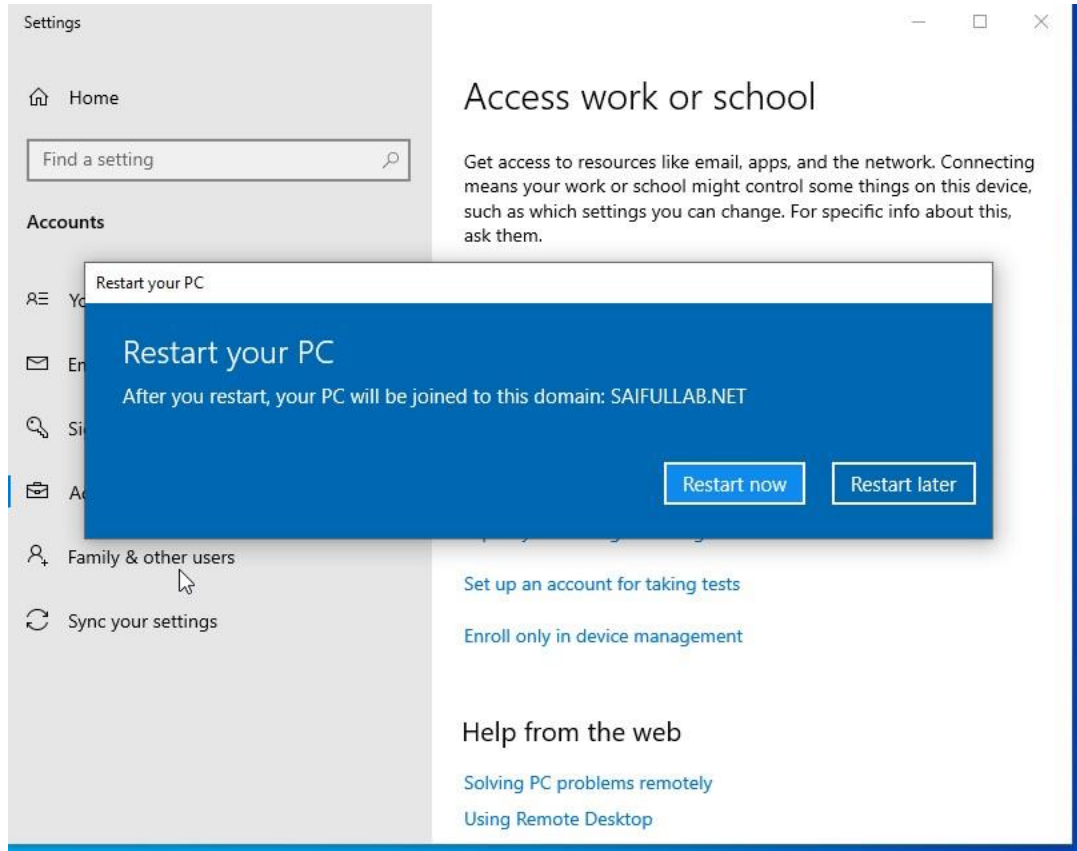
Type the Domain name and click Next



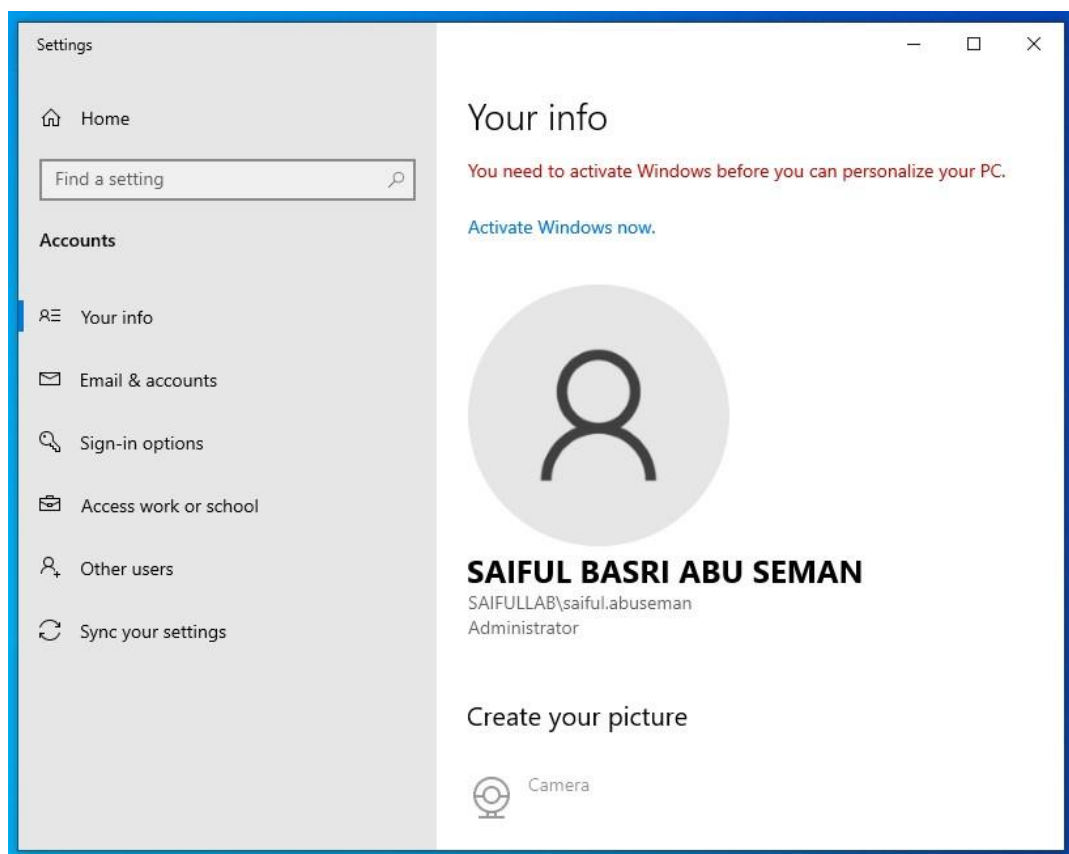
Type in the password



## Restart the Win10 VC



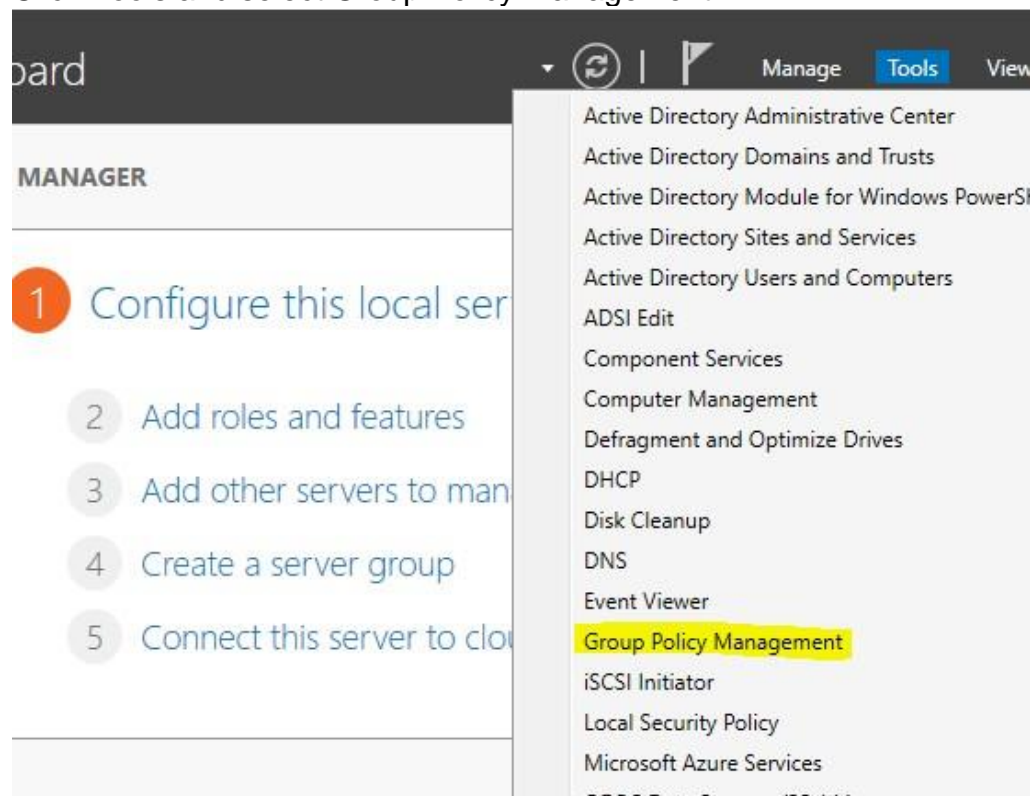
Re login with User ID created in AD, Domain join done.



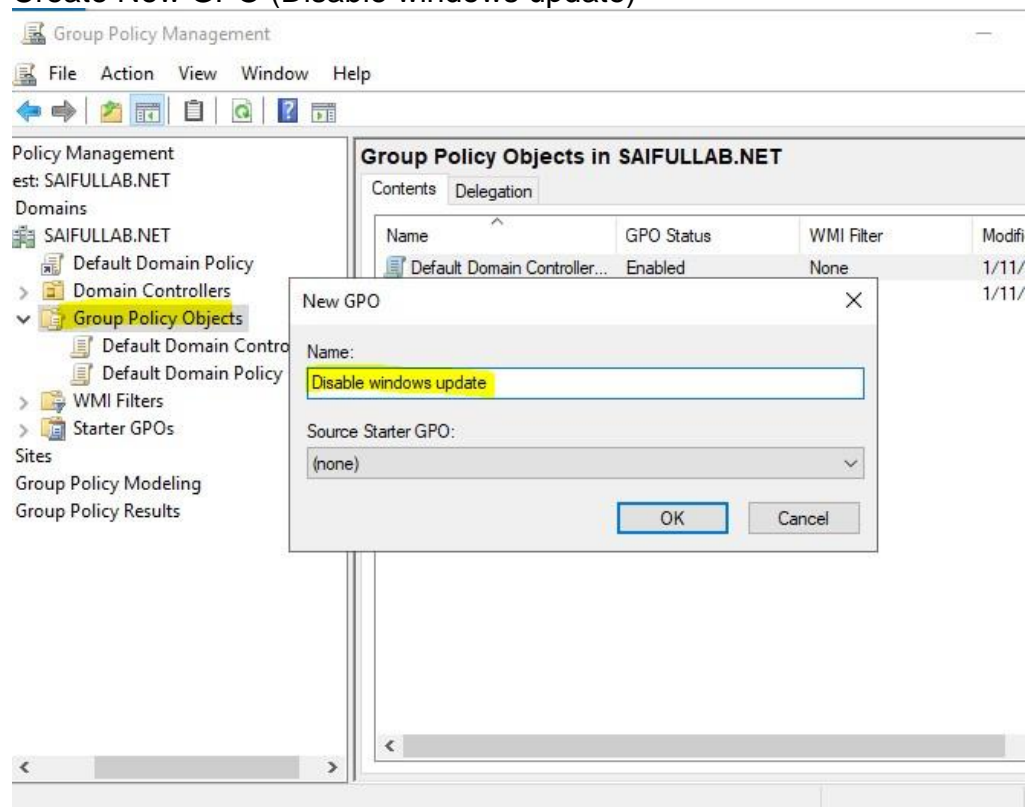


# Group Policy configuration (Disable windows update)

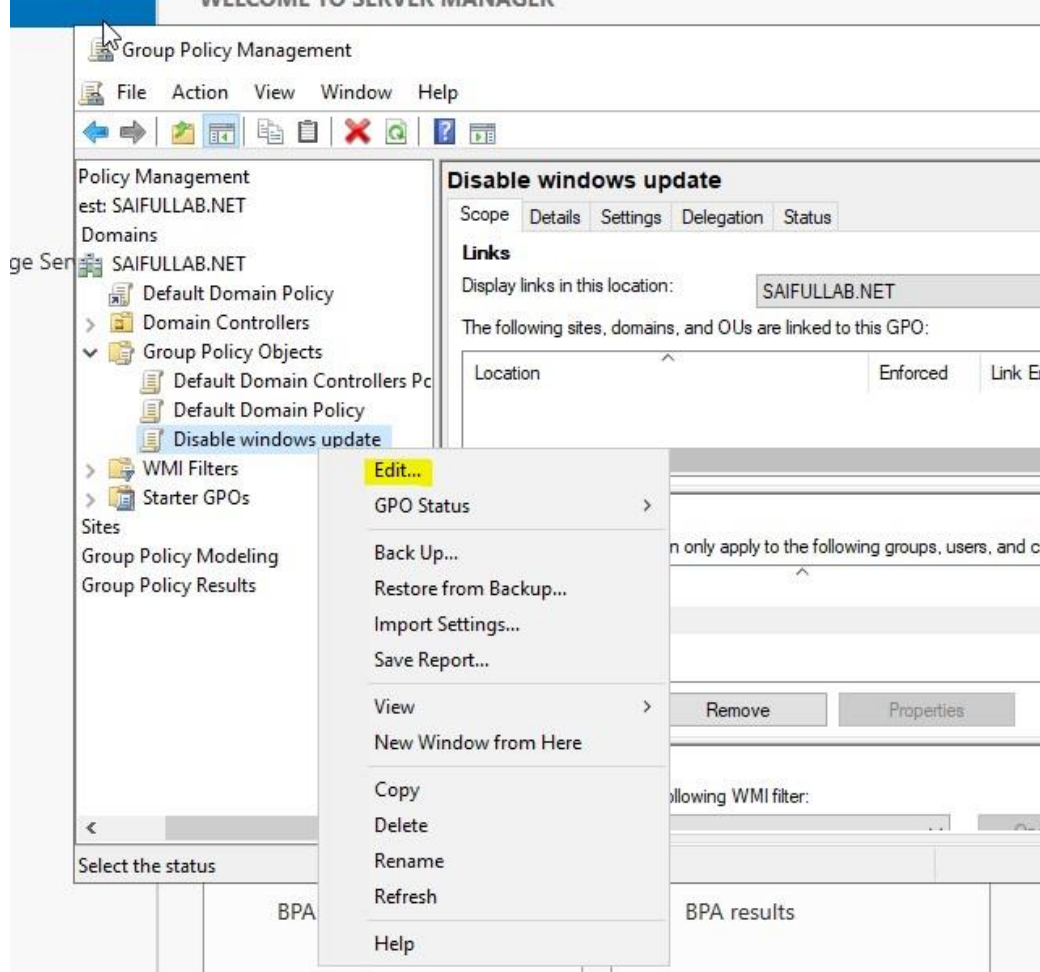
Click Tools and select Group Policy Management



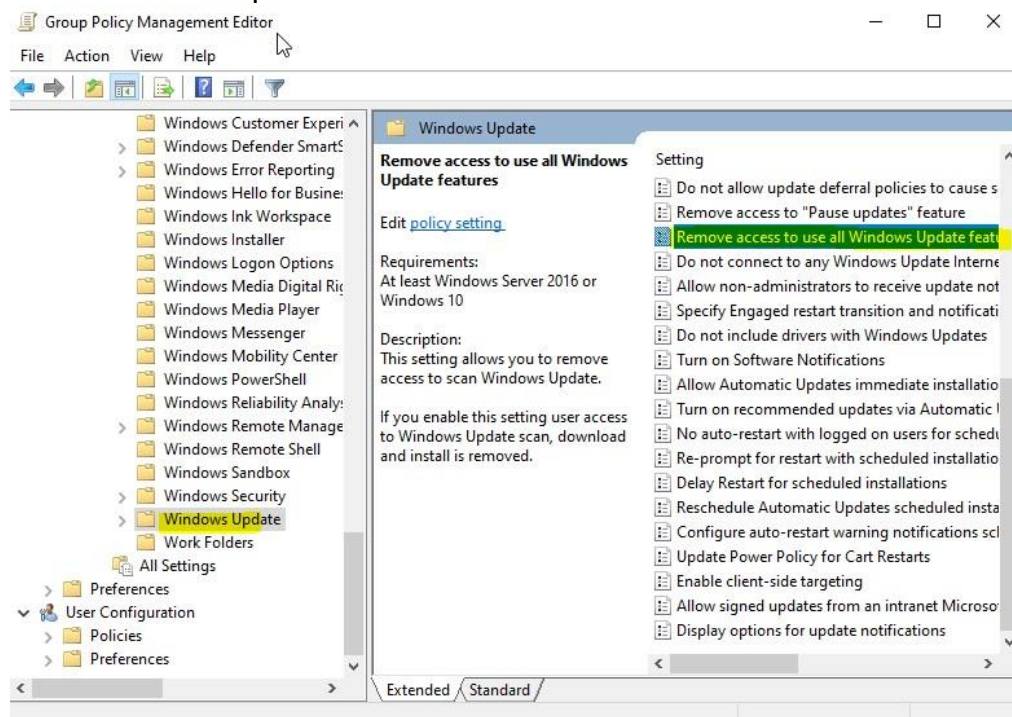
## Create New GPO (Disable windows update)



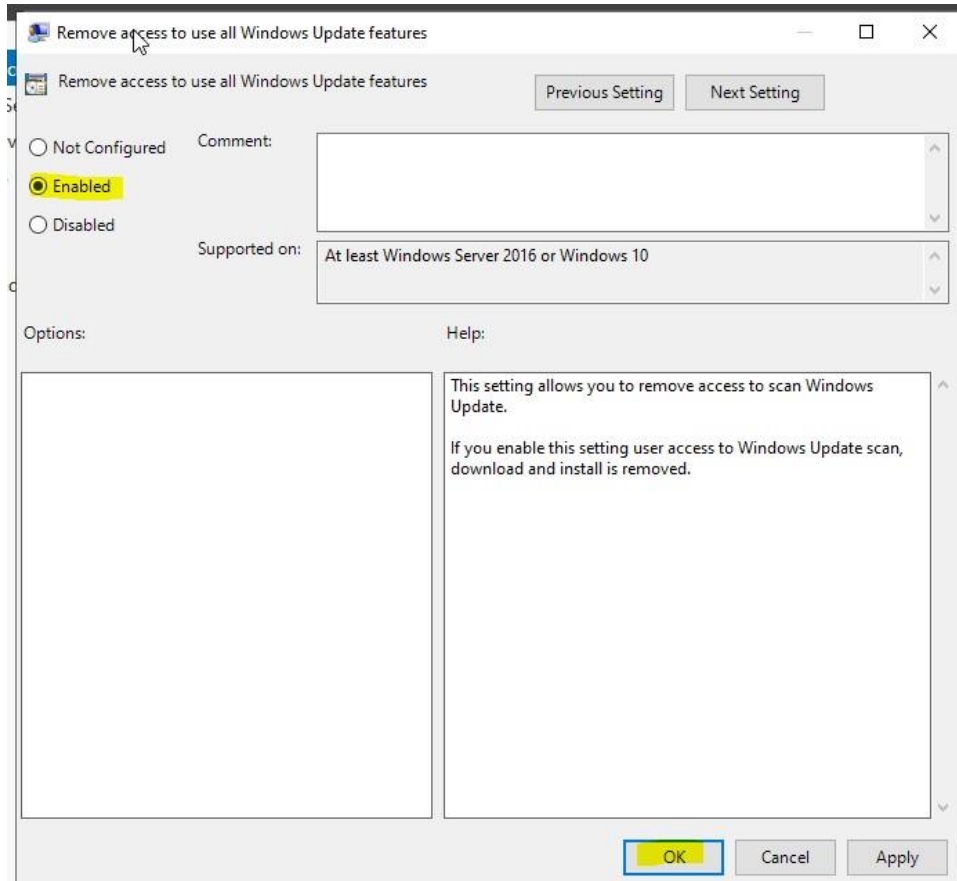
## Edit the newly created GPO



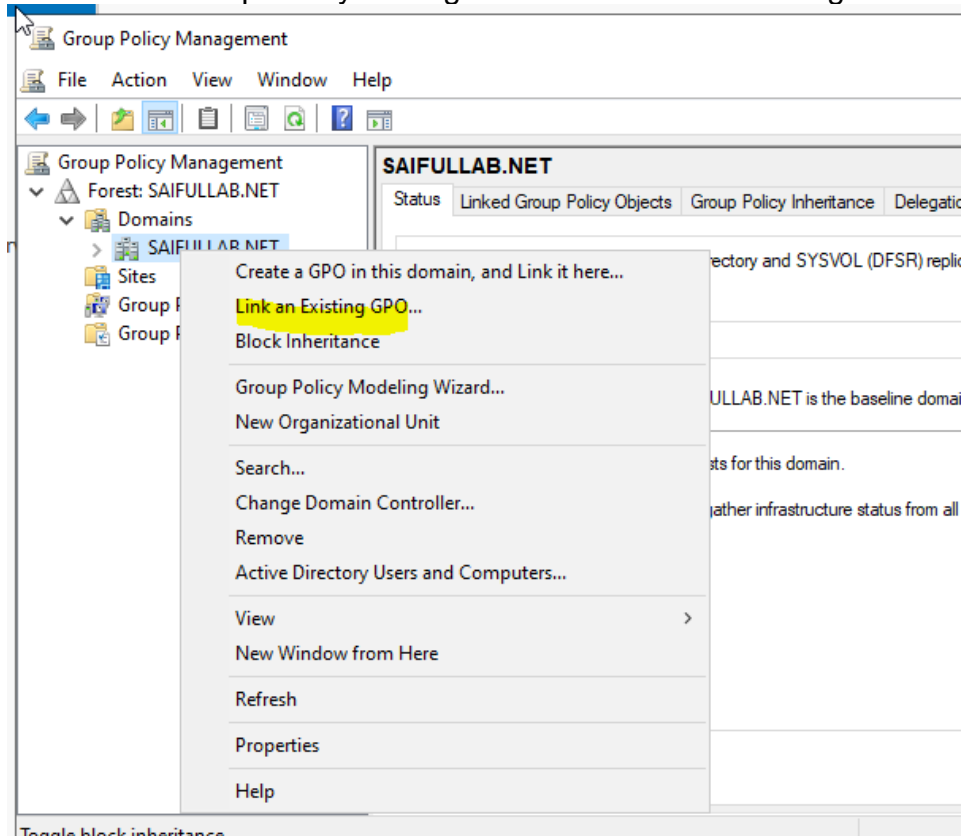
Go to Computer configuration > Administrative Templates > Windows components > select windows update and select Remove access to use all windows Update



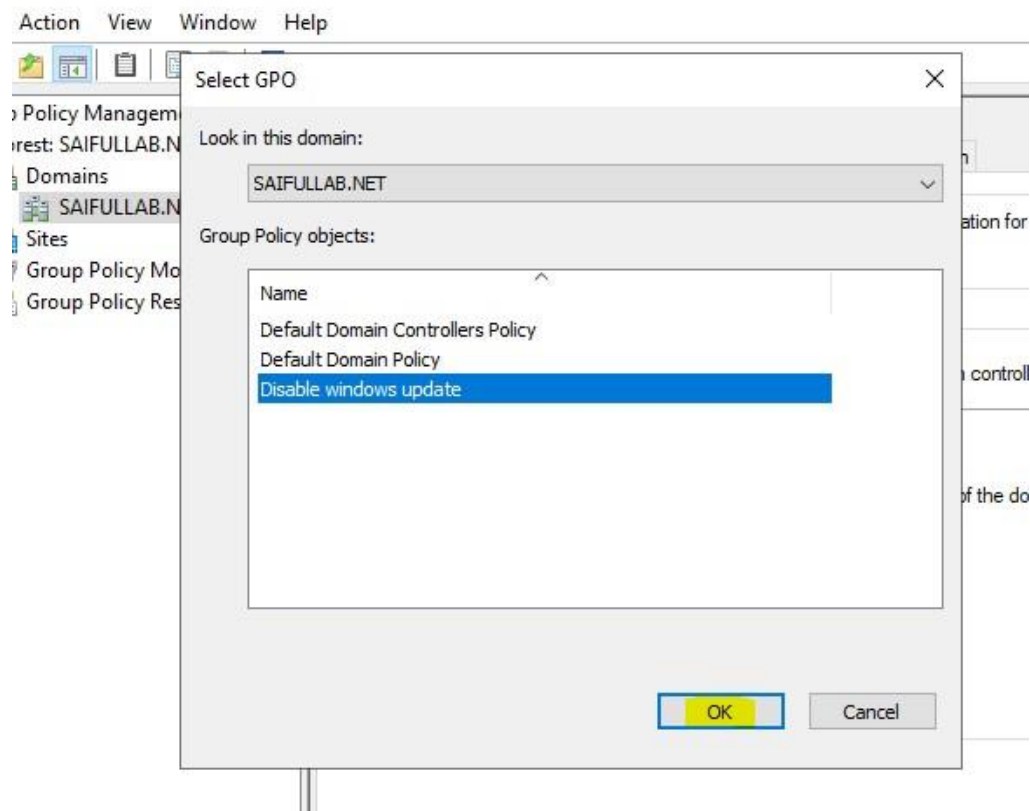
Select Enable and click OK



Go back to Group Policy management and Link an Existing GPO



Select Disable windows update and click OK



Go to Win10 VC and update policy in command prompt

```
Command Prompt
Microsoft Windows [Version 10.0.19045.2965]
(c) Microsoft Corporation. All rights reserved.

C:\Users\saiful.abuseman>gpupdate/force
Updating policy...

Computer Policy update has completed successfully.
User Policy update has completed successfully.

C:\Users\saiful.abuseman>
C:\Users\saiful.abuseman>
C:\Users\saiful.abuseman>
```

## Group Policy setting completed

Settings

Home

Find a setting

Update & Security

Windows Update

Delivery Optimization

Windows Security

Backup

Troubleshoot

Recovery

Activation

Find my device

For developers

Windows Update

Microsoft .NET Framework 4.8.1 for Windows 10 Version 22H2 for x64 (KB5011048)  
**Status:** Pending install

2023-10 Update for Windows 10 Version 22H2 for x64-based Systems (KB5001716)  
**Status:** Pending install

Update for Windows Defender Antivirus antimalware platform - KB4052623 (Version 4.18.2001.10)  
**Status:** Pending install

Install now

\*This option is managed by your organization.

This PC doesn't currently meet the minimum system requirements to run Windows 11

Get the details and see if there are things you can do in the PC Health

Get PC Health Check