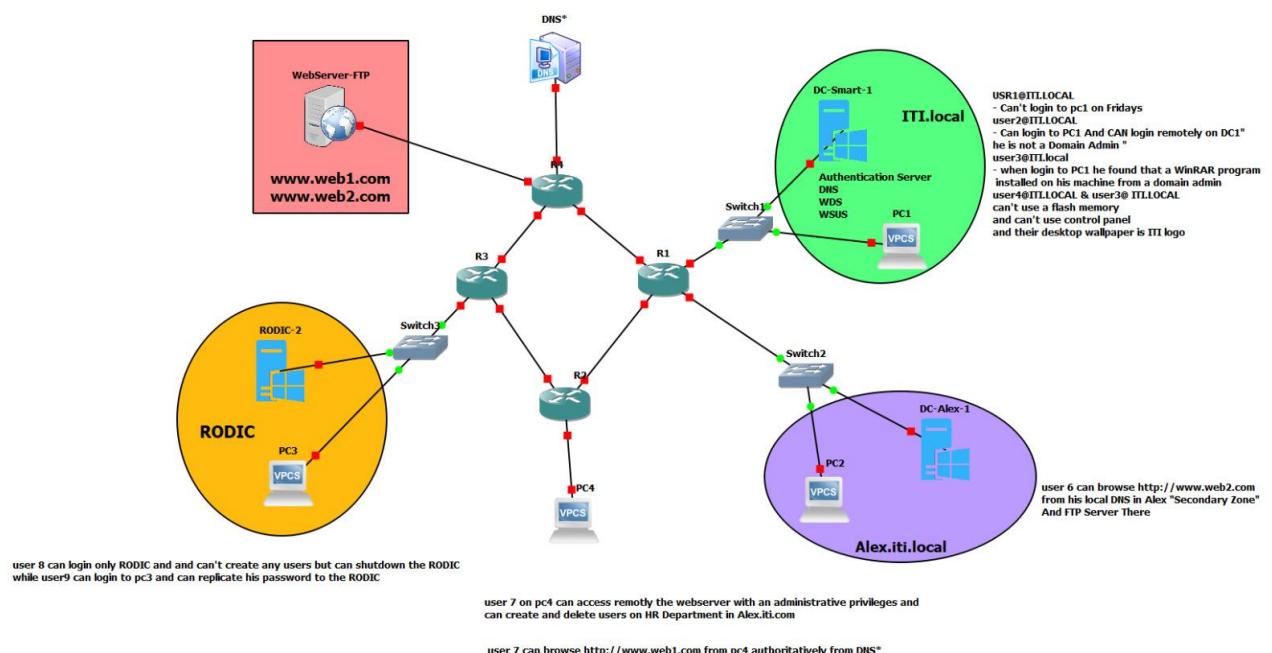


Name: Elham Hasan Gouda Kedwany Instructor Eng: Peter Kamel Gaballah

Windows Server Administration Project

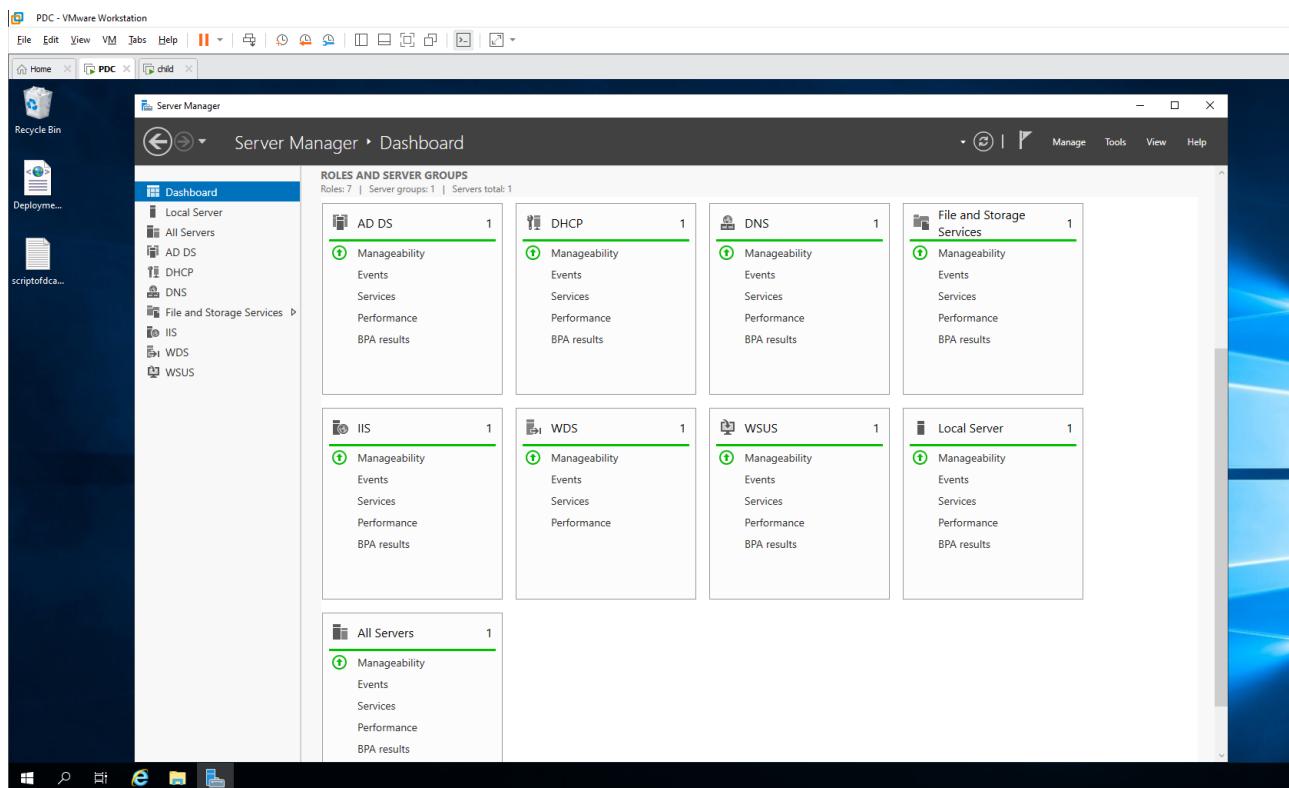
Topology



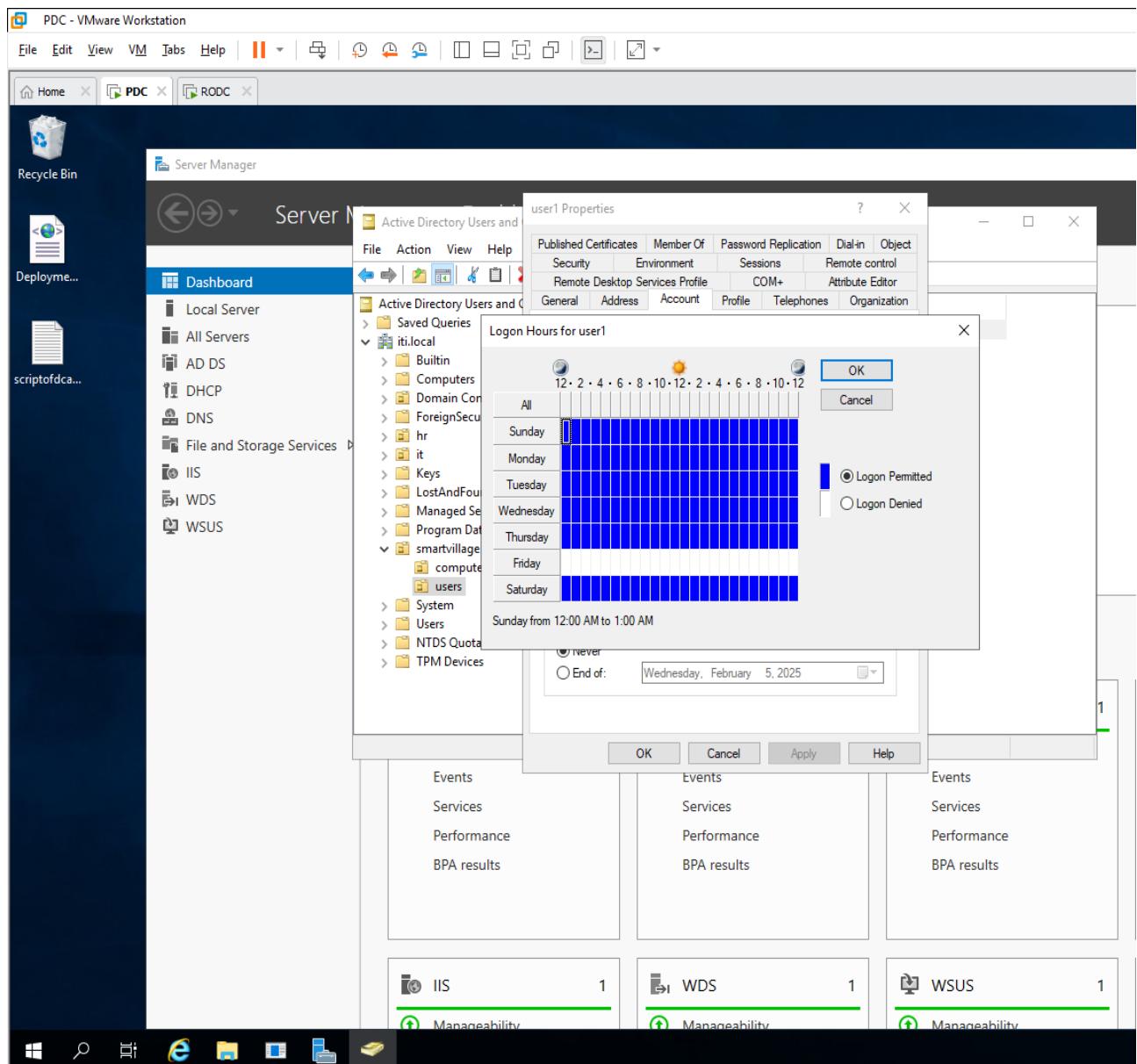
First of all: Creating a new VM and setting Up Windows Server and Adding the role of Active Directory Domain Service And Promoting to be a Domain Controller of the Domain Name (iti.local) and adding roles of **DNS** and **DHCP** and **WDS** and **WSUS**

- In real life The Domain Controller isn't allowed to access Internet as a type of Protection and Security.
- and each service is installed on a different vm (if limited resources) or another server.

This is The Primary Domain Controller (PDC).



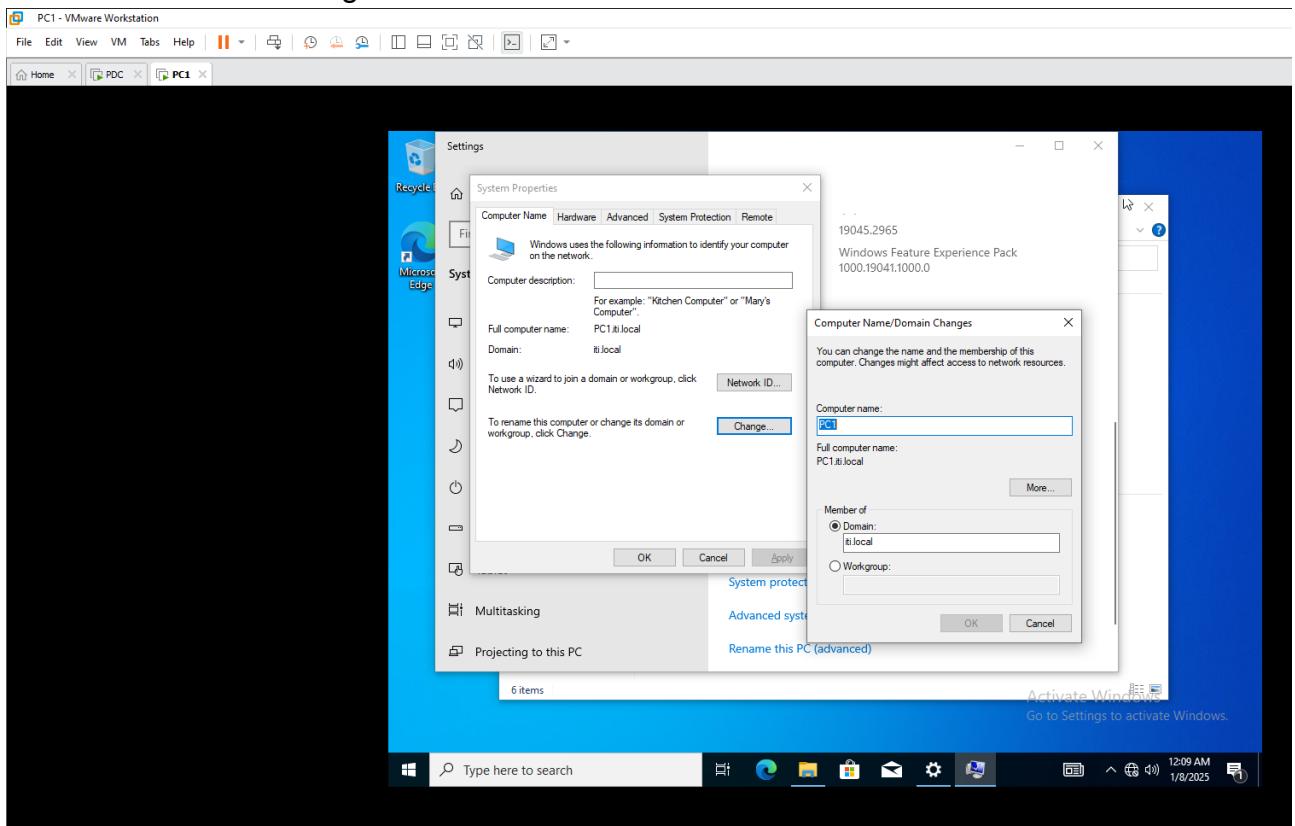
➤ Required: User1@ITI.Local can't login to PC1 on Fridays



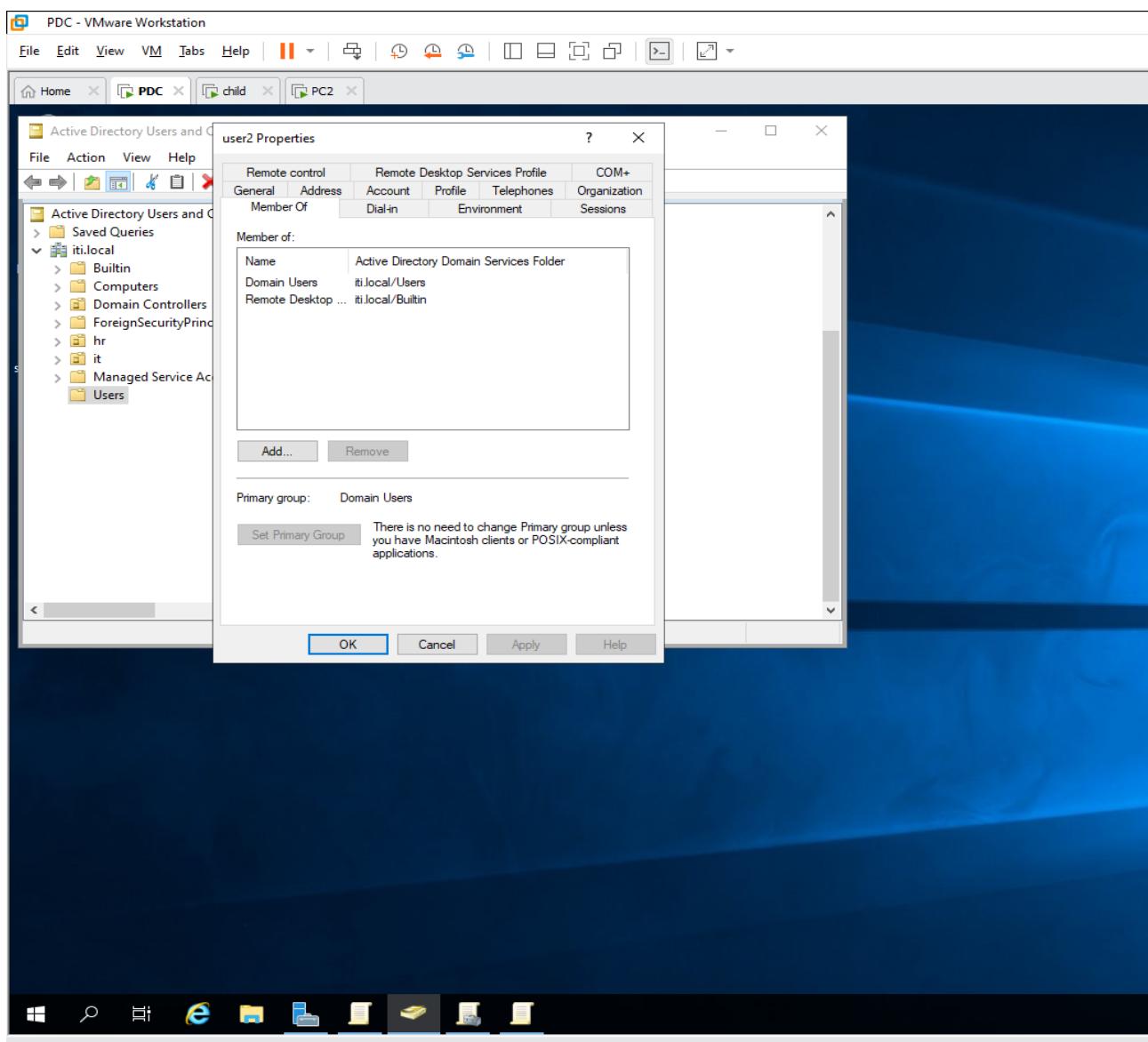
- Required: User2@ITI.Local can login to PC1 and can login Remotely to PDC and he isn't a Domain Admin

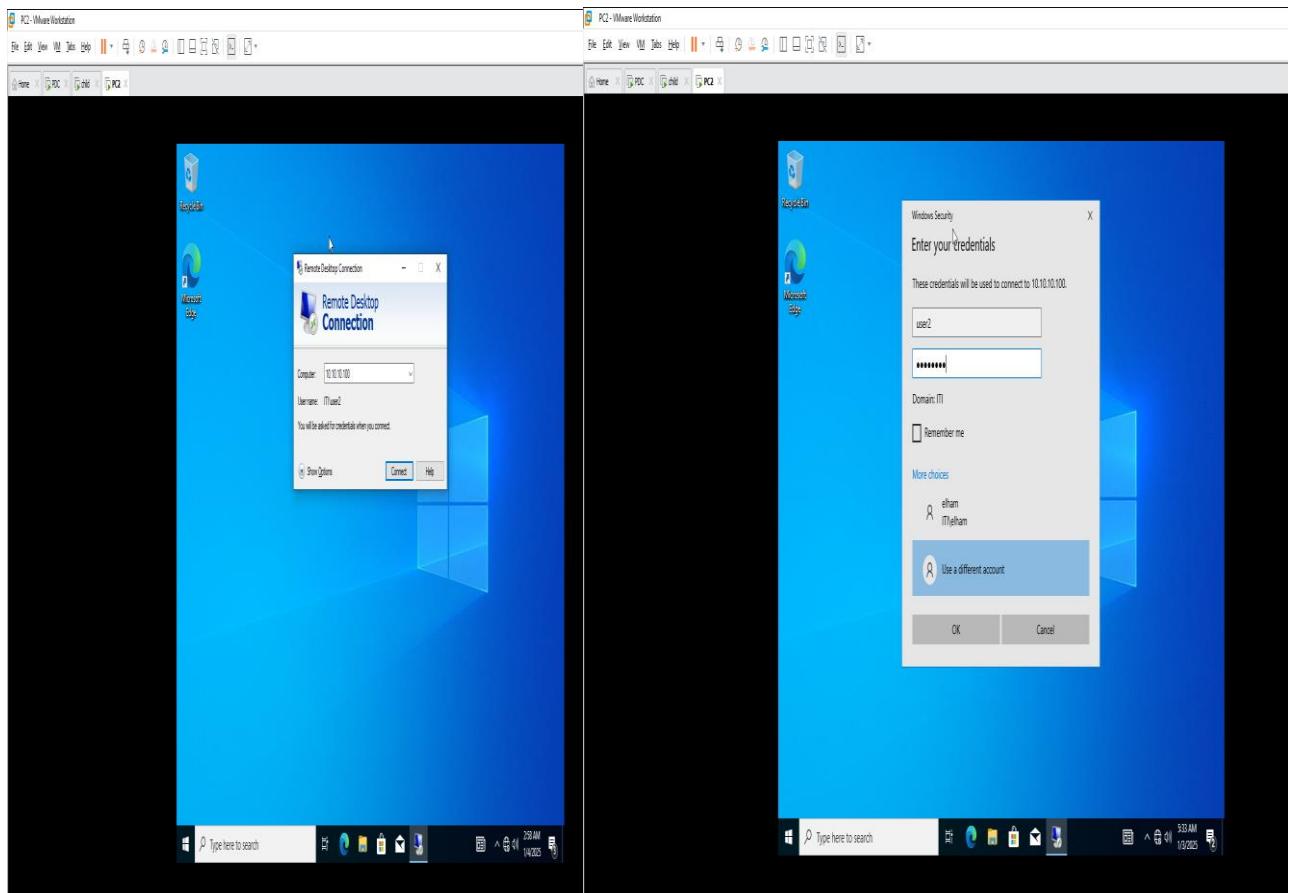
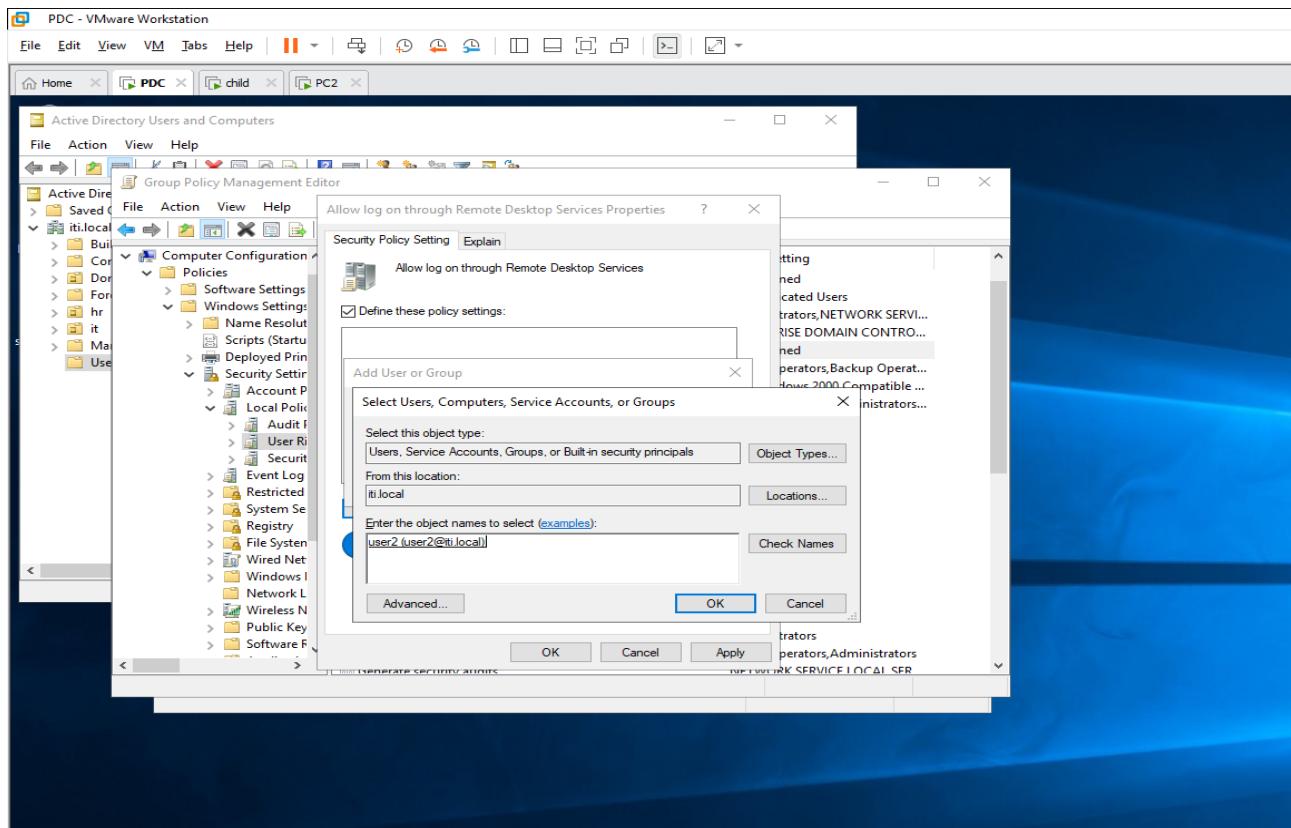
Steps:

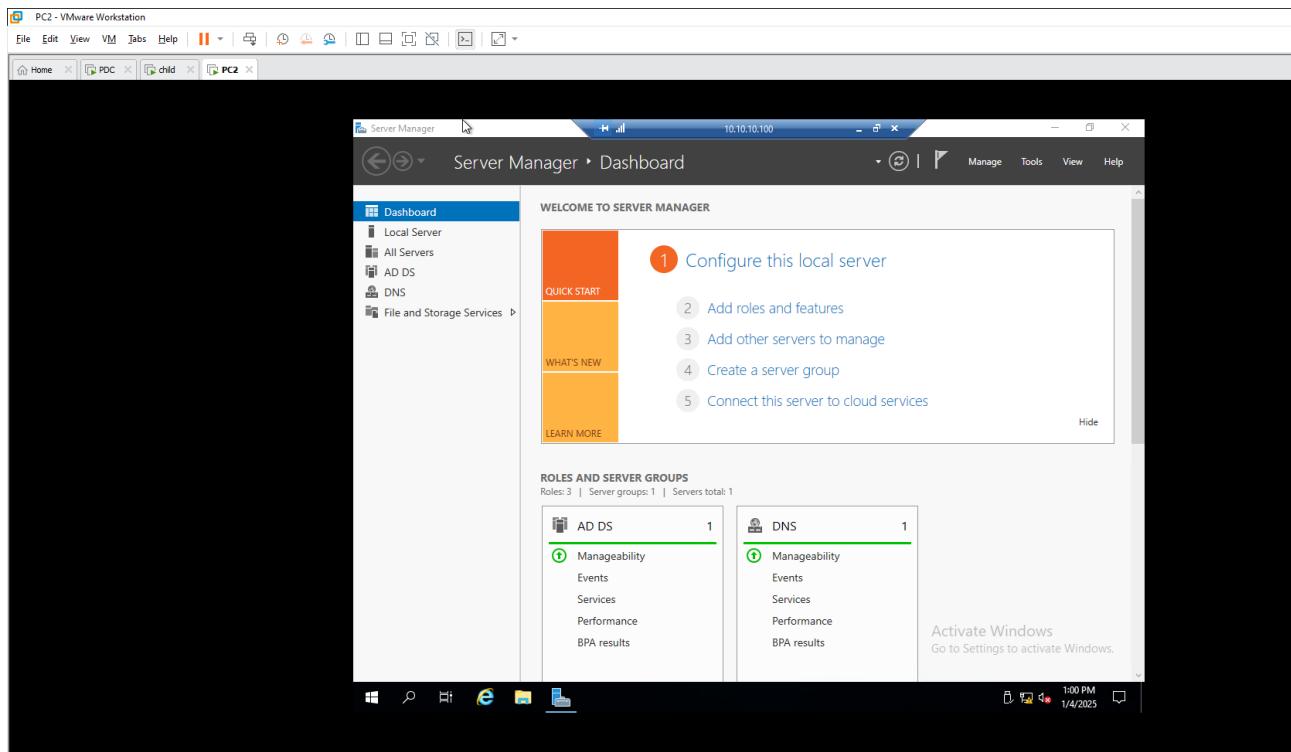
- User2@ITI.Local can login to PC1 as PC1 is added to Domain of ITI.Local



- User2@iti.local can login remotely to PCD after adding GPO to him



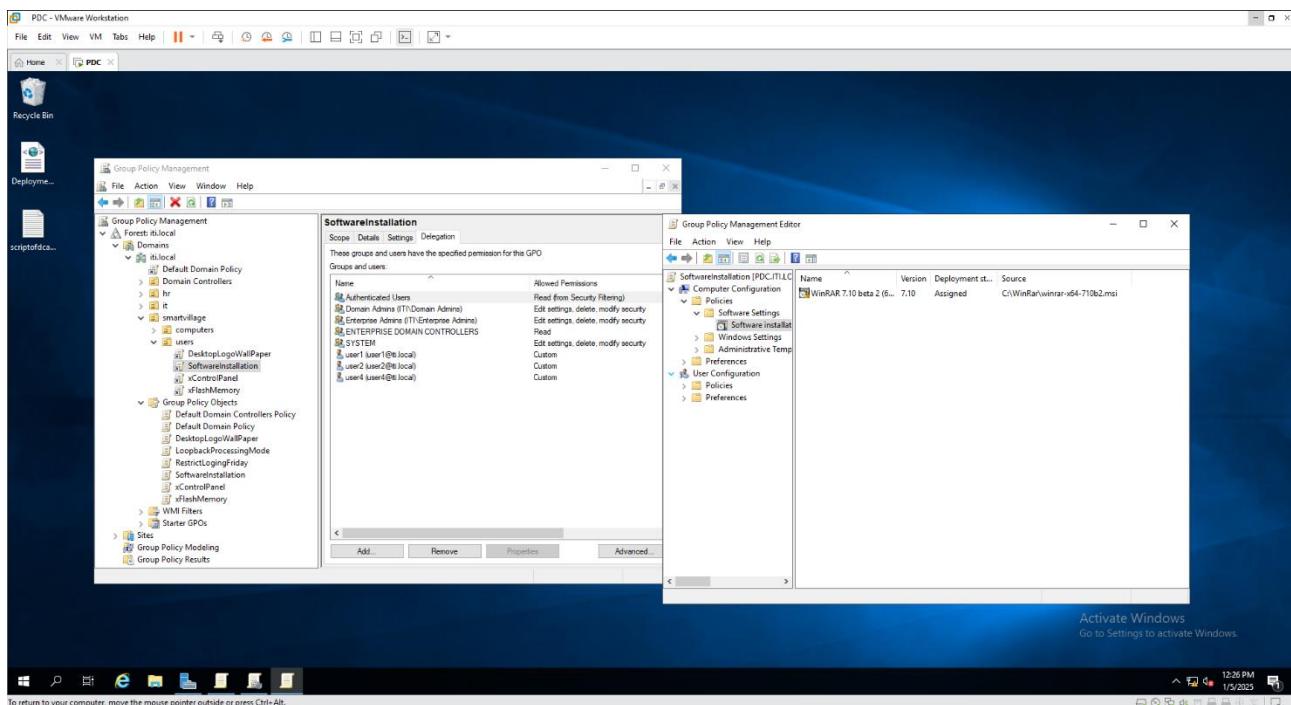




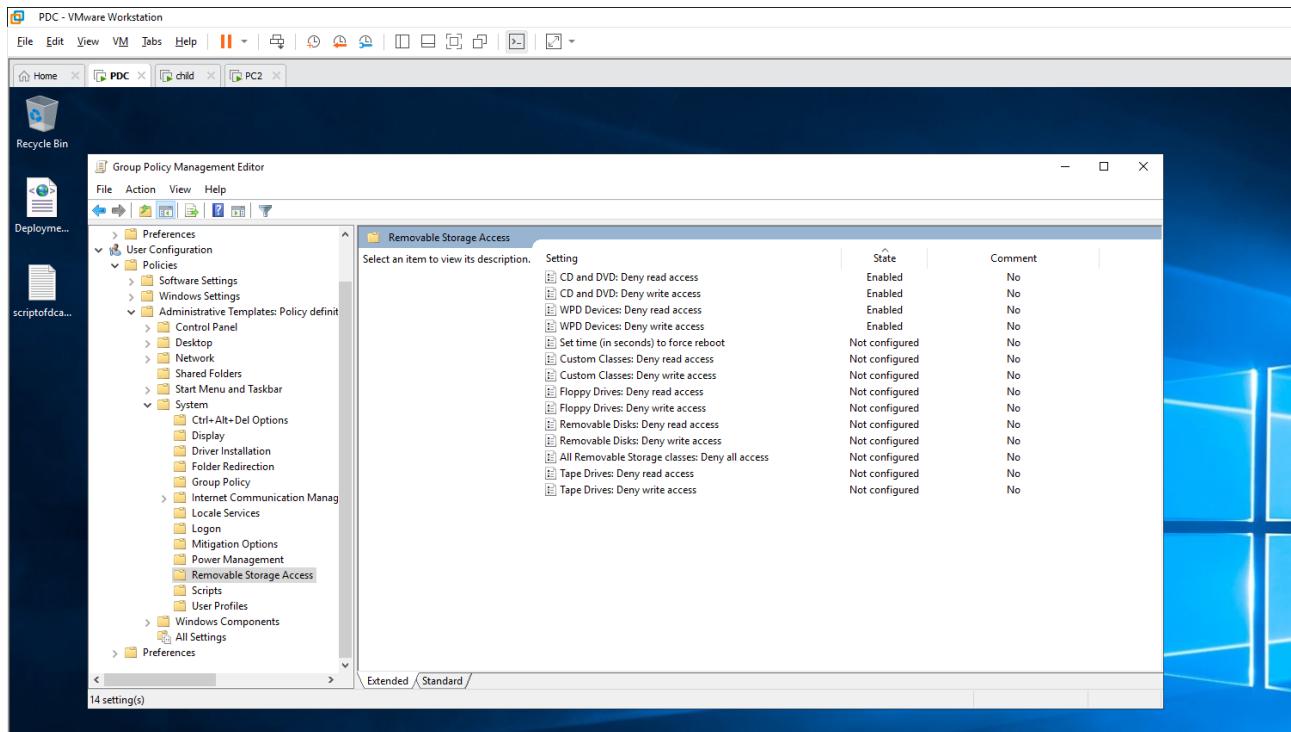
- Required: [User3@ITI.Local](#) when Login to PC1 he found that WinRAR Program is installed on his machine from a Domain Admin

Steps:

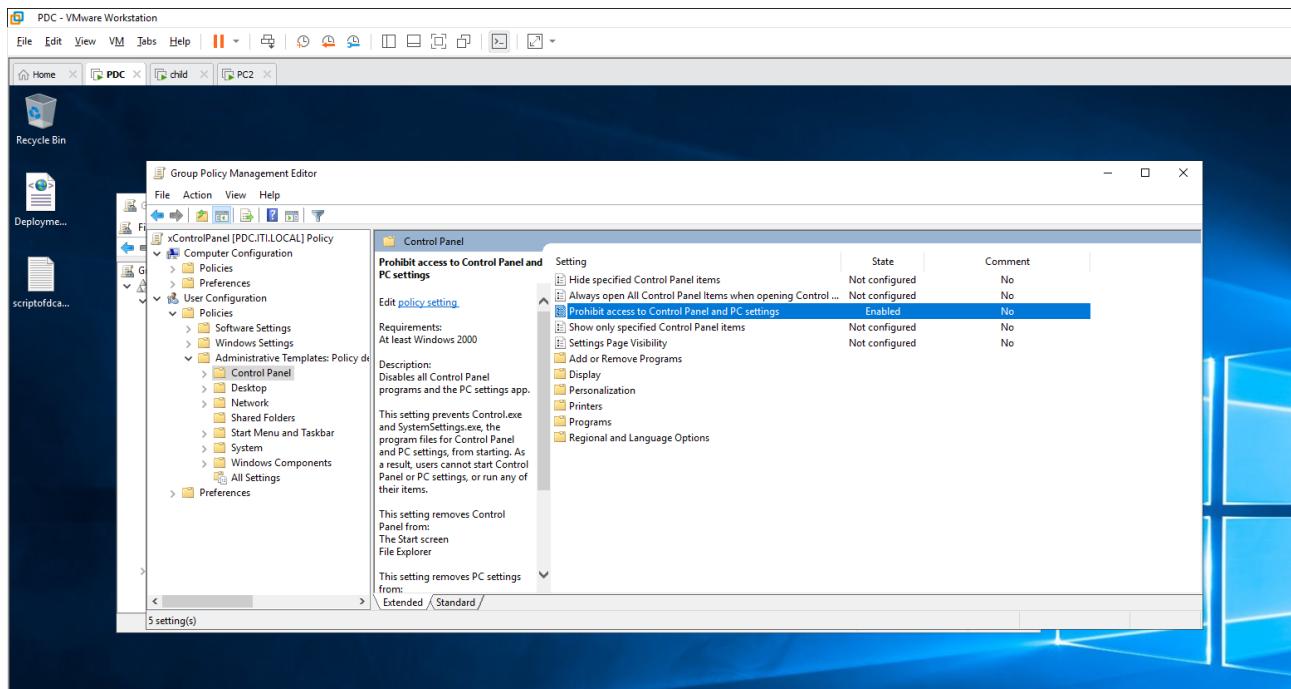
Applying GPO on users OU in smart village and Excluding other users except [user3@iti.local](#)



➤ Required: User3@ITI.Local & User4@ITI.Local can't use Flash Memory

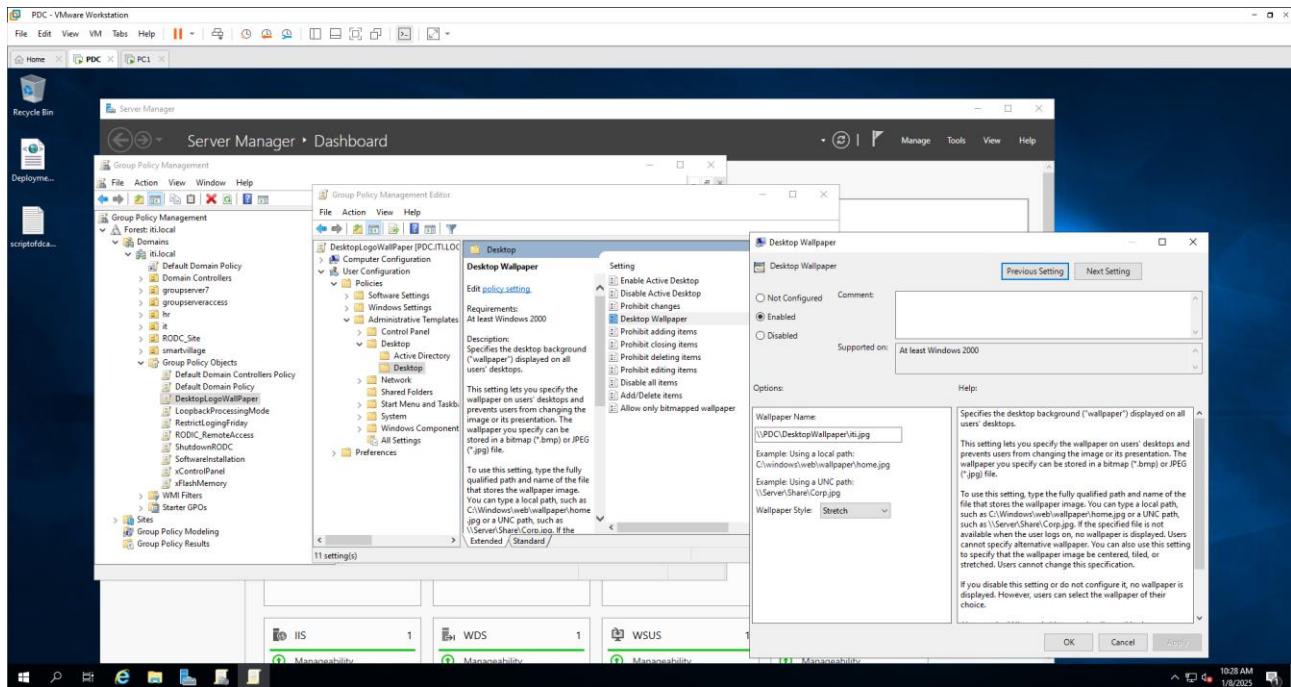


➤ Required: User3@ITI.Local & User4@ITI.Local can't use Control Panel

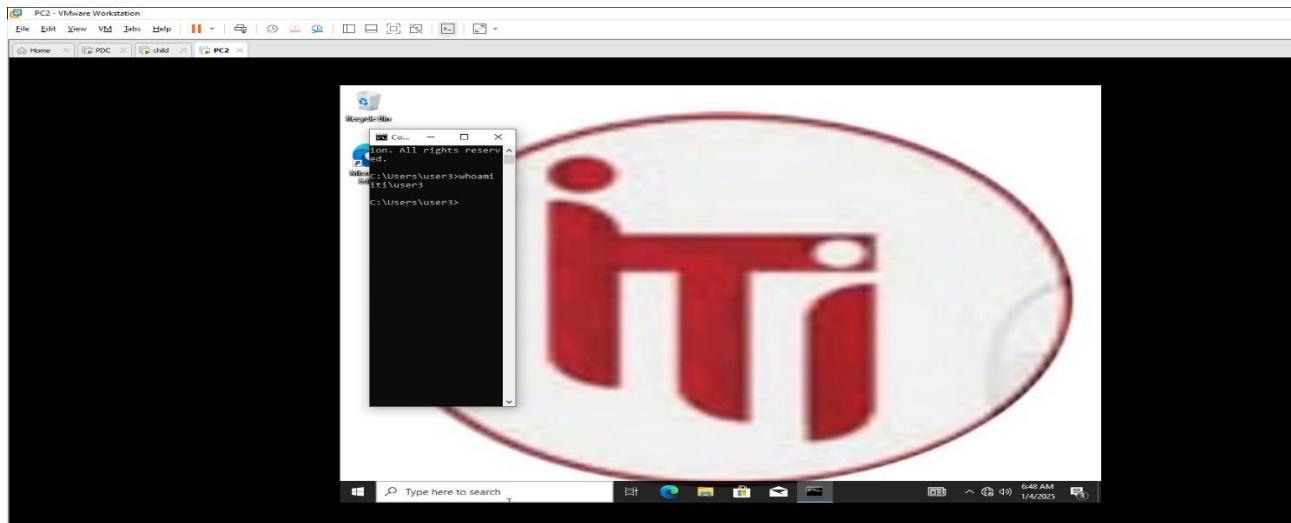


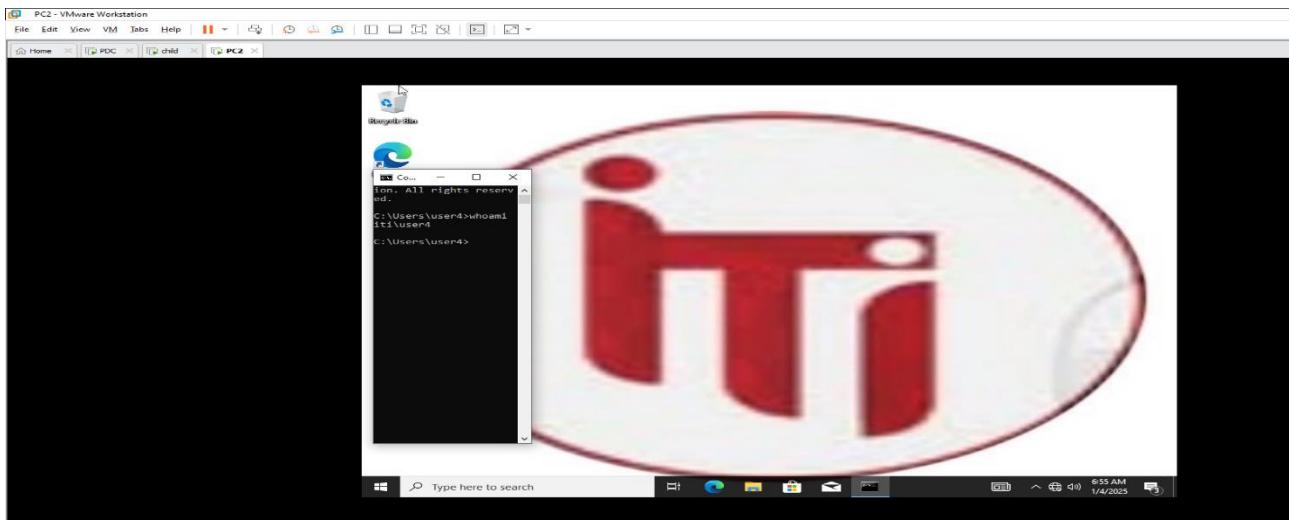
- Note: I created 3 GPOs (xControlPanel, xFlashMemory, DesktopLogoWallPaper) And applied to OU users in smart village and excluded other users to be applied on user3 & user4

- Required: User3@ITI.Local & User4@ITI.Local their desktop Wallpaper is ITI Logo

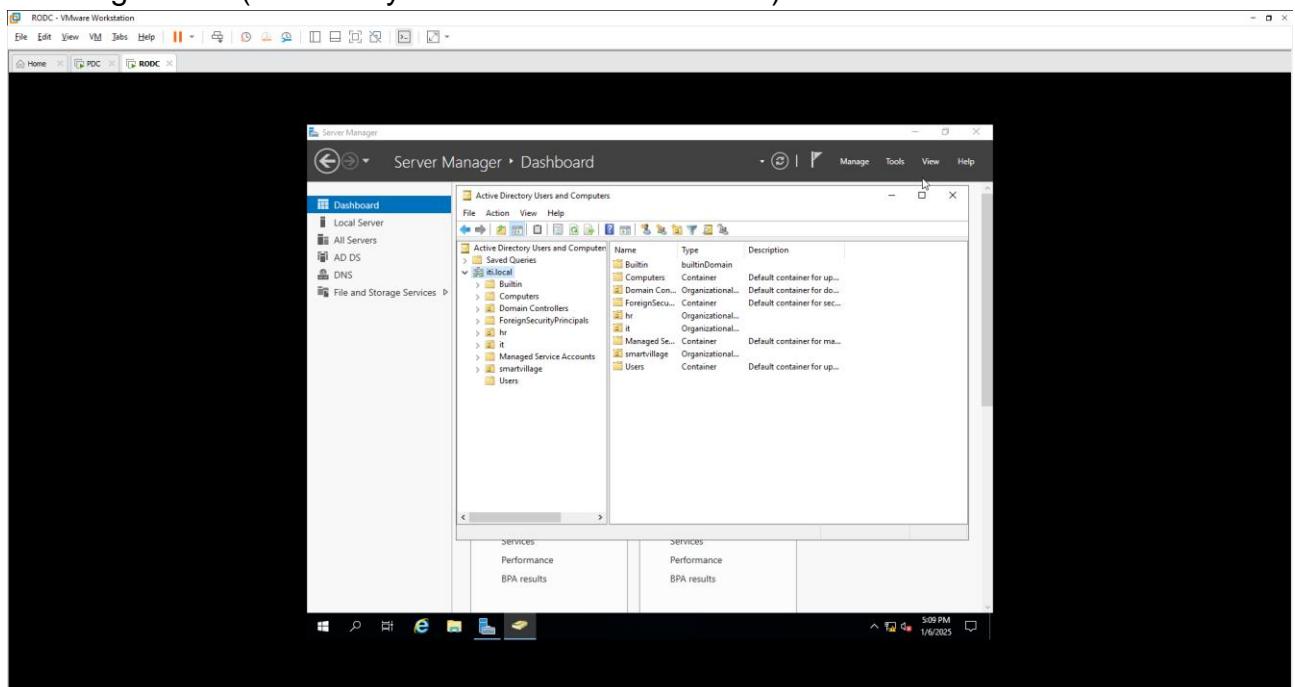


Result:





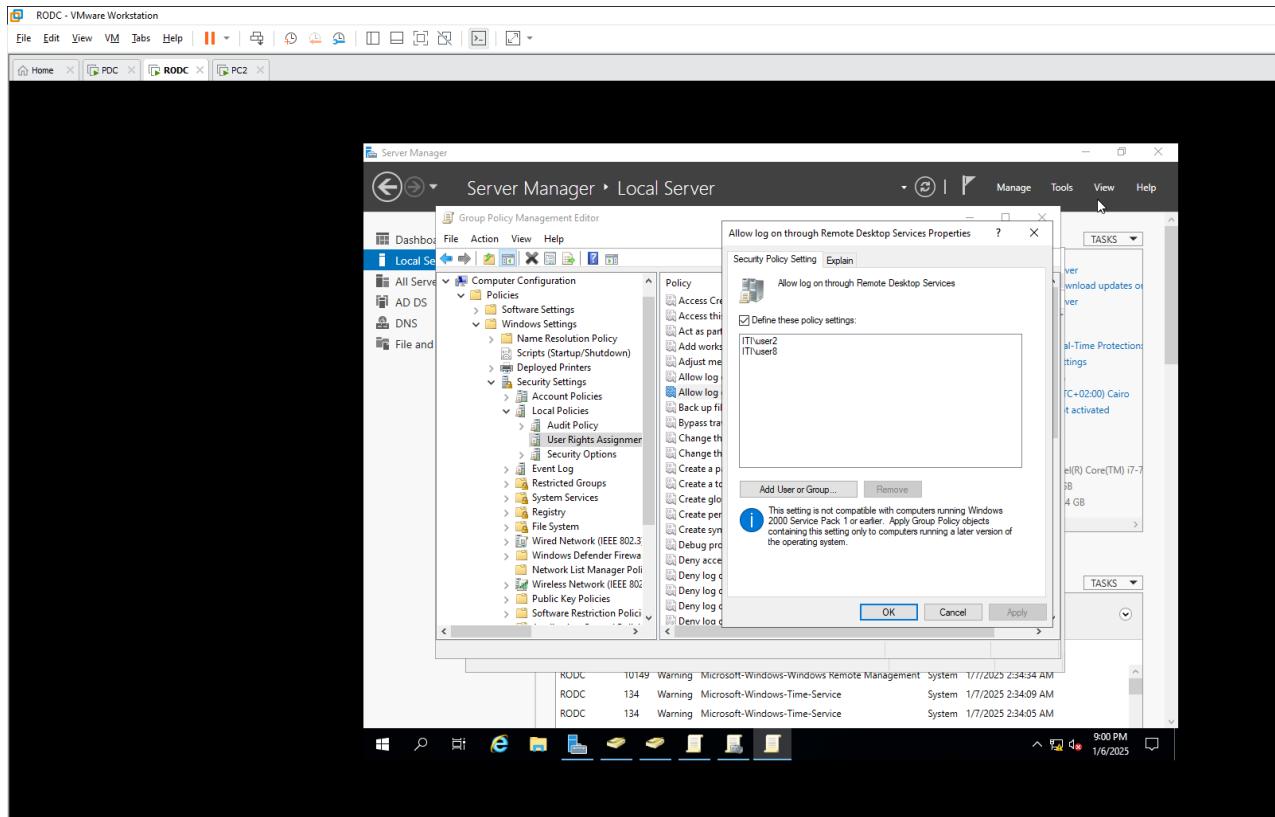
Creating RODC (Read Only Domain Controller Server)



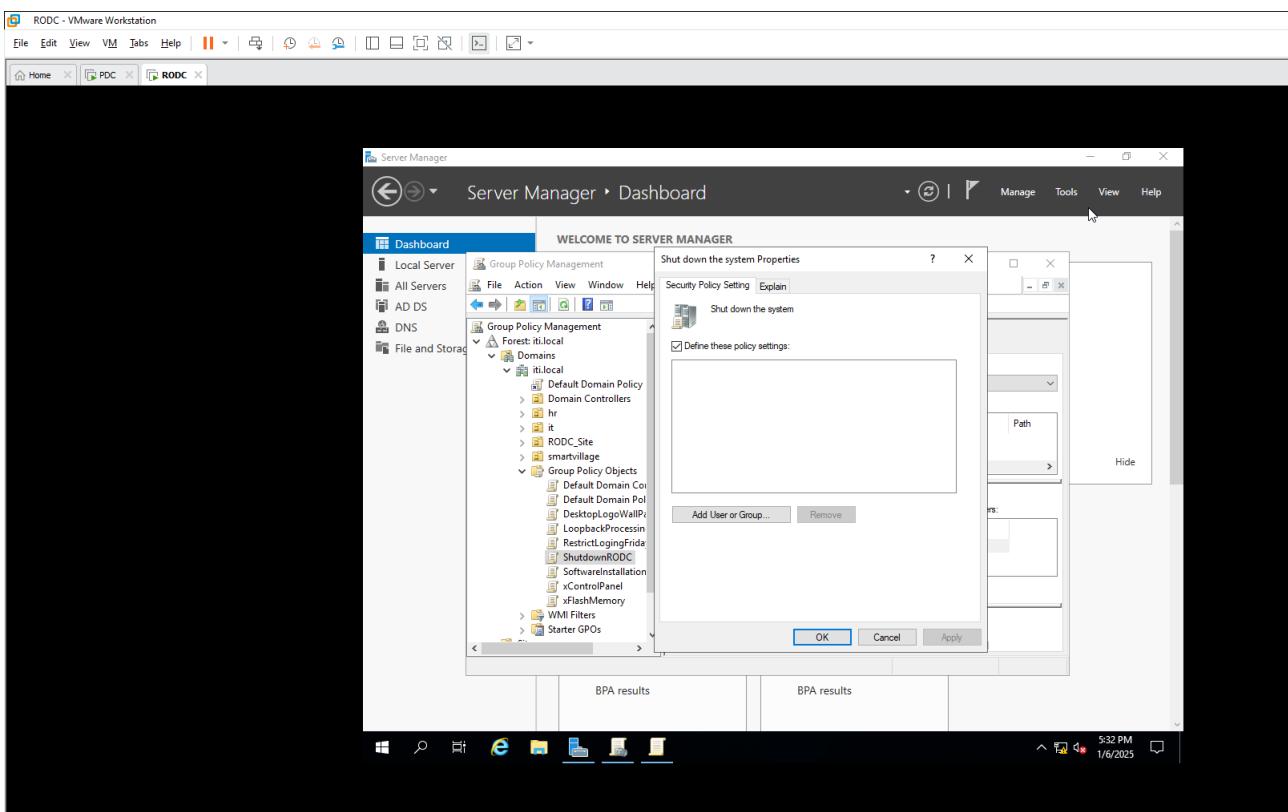
- **Required: User8 can login only RODC and can't create any users but can Shut down the RODC**

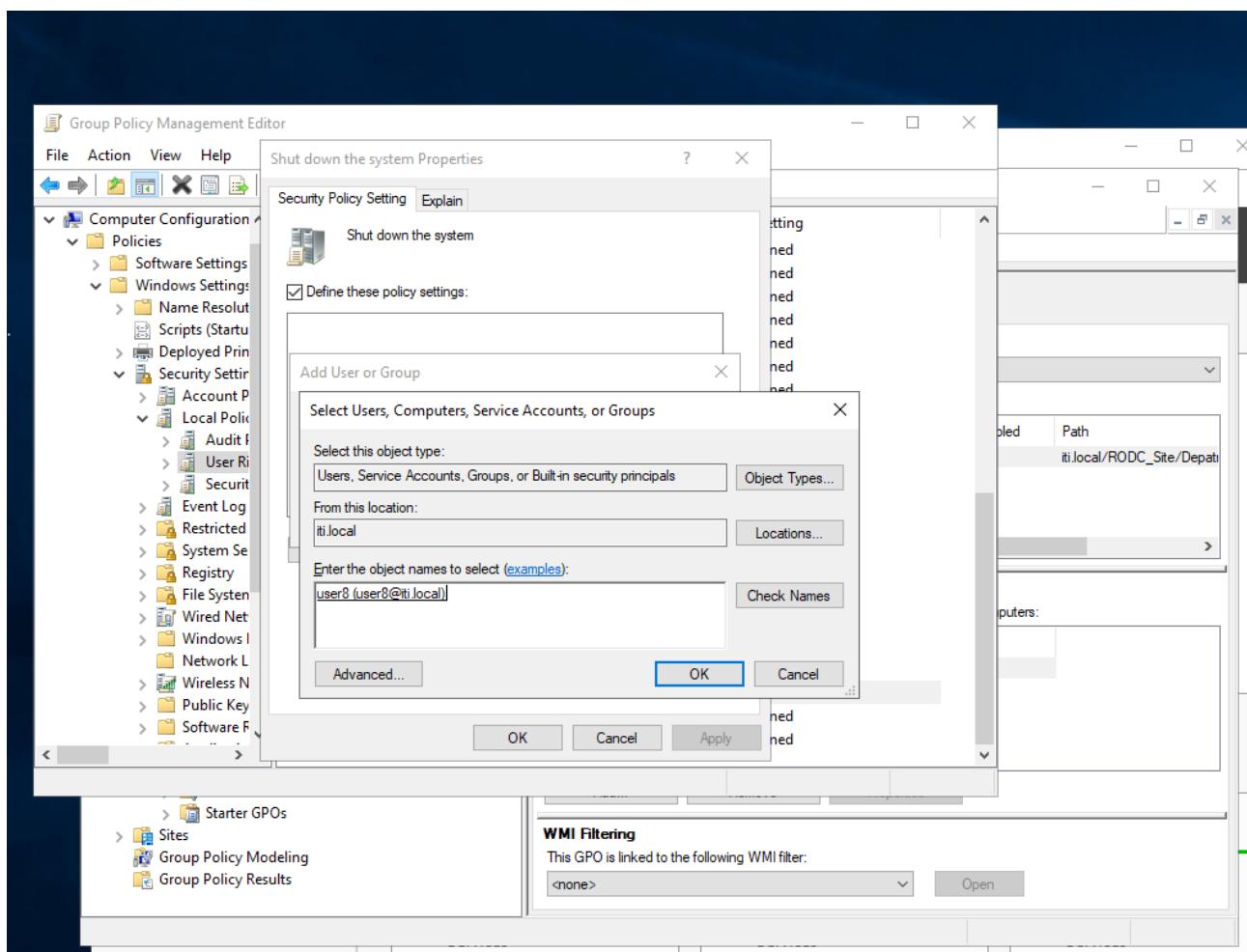
Steps:

- User8 can login to RODC remotely but can't create any users



- To shut down RODC

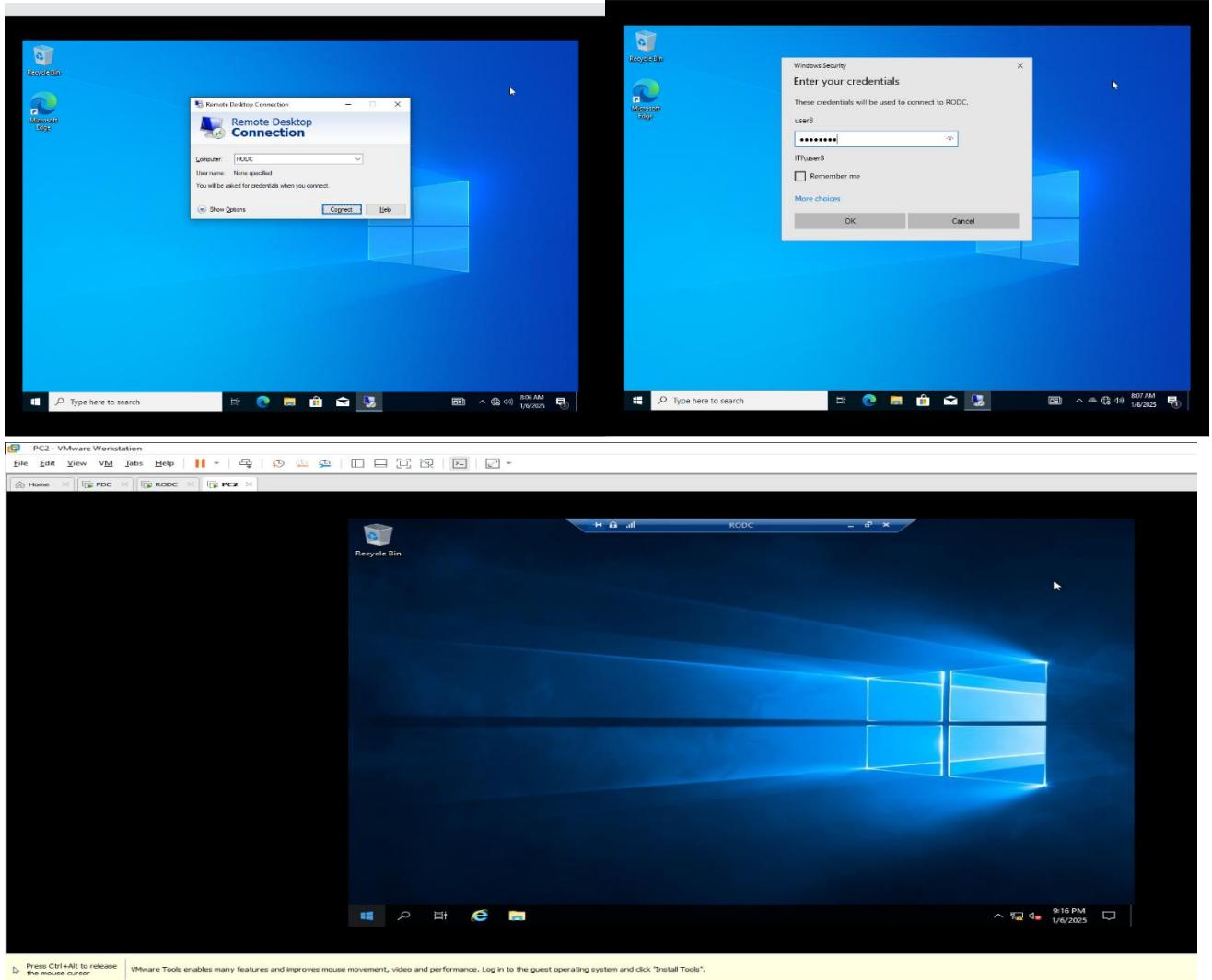




Applying GPOs to user8

The screenshot shows the Group Policy Management console. The left pane displays the 'Group Policy Management' tree, with 'Forest: iti.local' and its 'Domains' node expanded. The 'iti.local' domain node contains several GPOs: 'Default Domain Policy', 'Domain Controllers', 'groupserver7', 'groupserveraccess', 'hr', 'it', 'RODC_Site', 'smartvillage', 'Group Policy Objects', 'WMI Filters', and 'Starter GPOs'. The 'Group Policy Objects' node is selected. The right pane shows the details for the 'Department1' GPO. The 'Linked Group Policy Objects' table lists two entries:

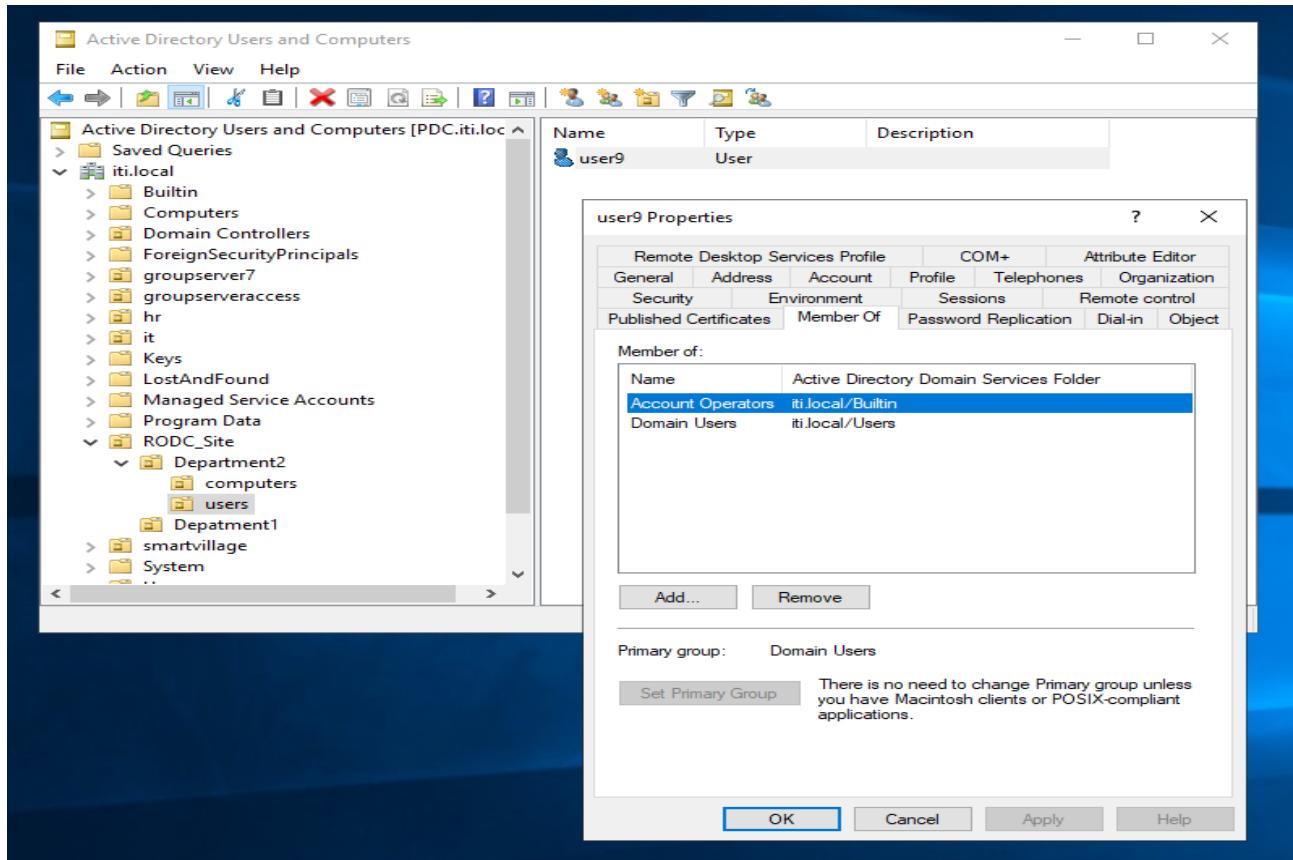
Link Order	GPO	Enforced	Link Enabled	GPO Status	WMI Filter	Modified	Domain
1	ShutdownRODC	No	Yes	Enabled	None	1/8/2025...	iti.local
2	RODC_RemoteAcc...	No	Yes	Enabled	None	1/6/2025...	iti.local



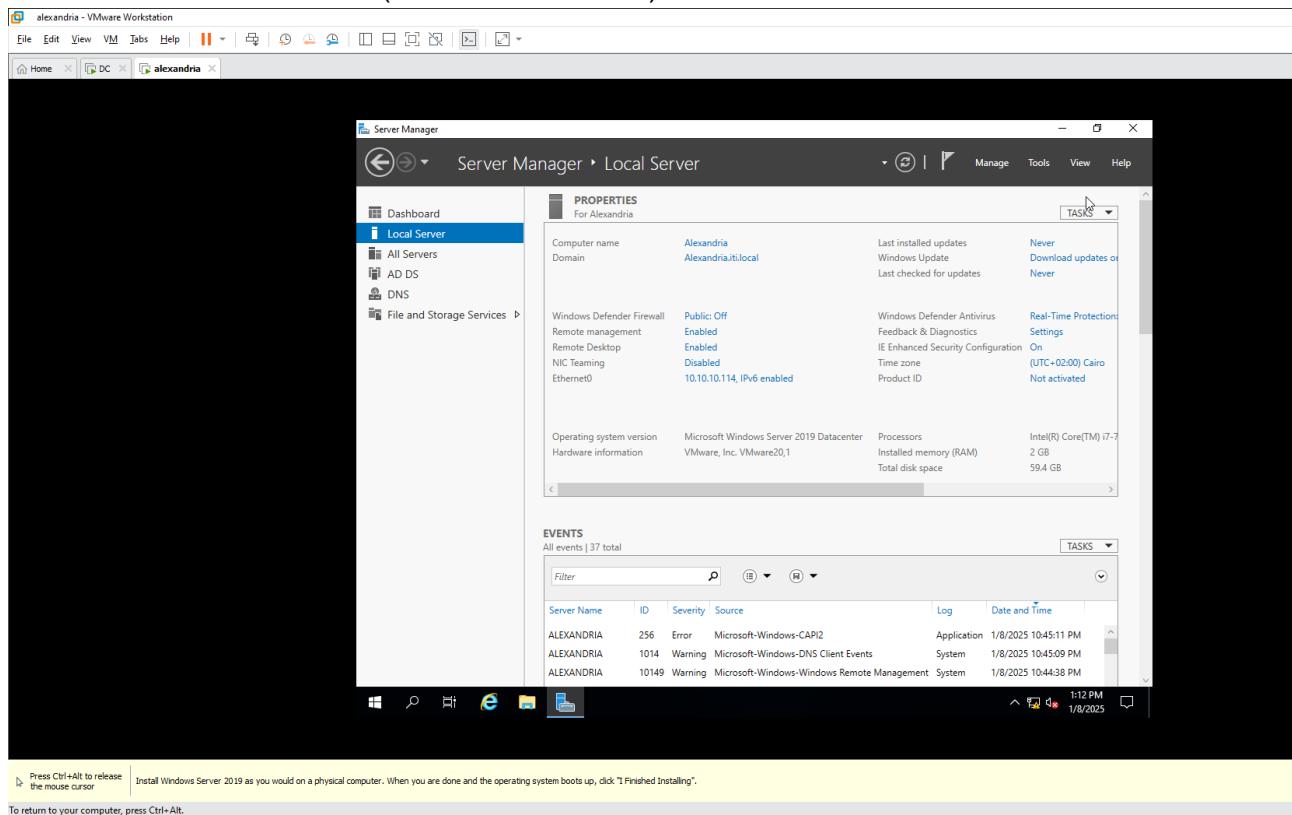
- **Required:** User9@ITI.Local can login to PC3 and can replicate his Password to the RODC

Steps:

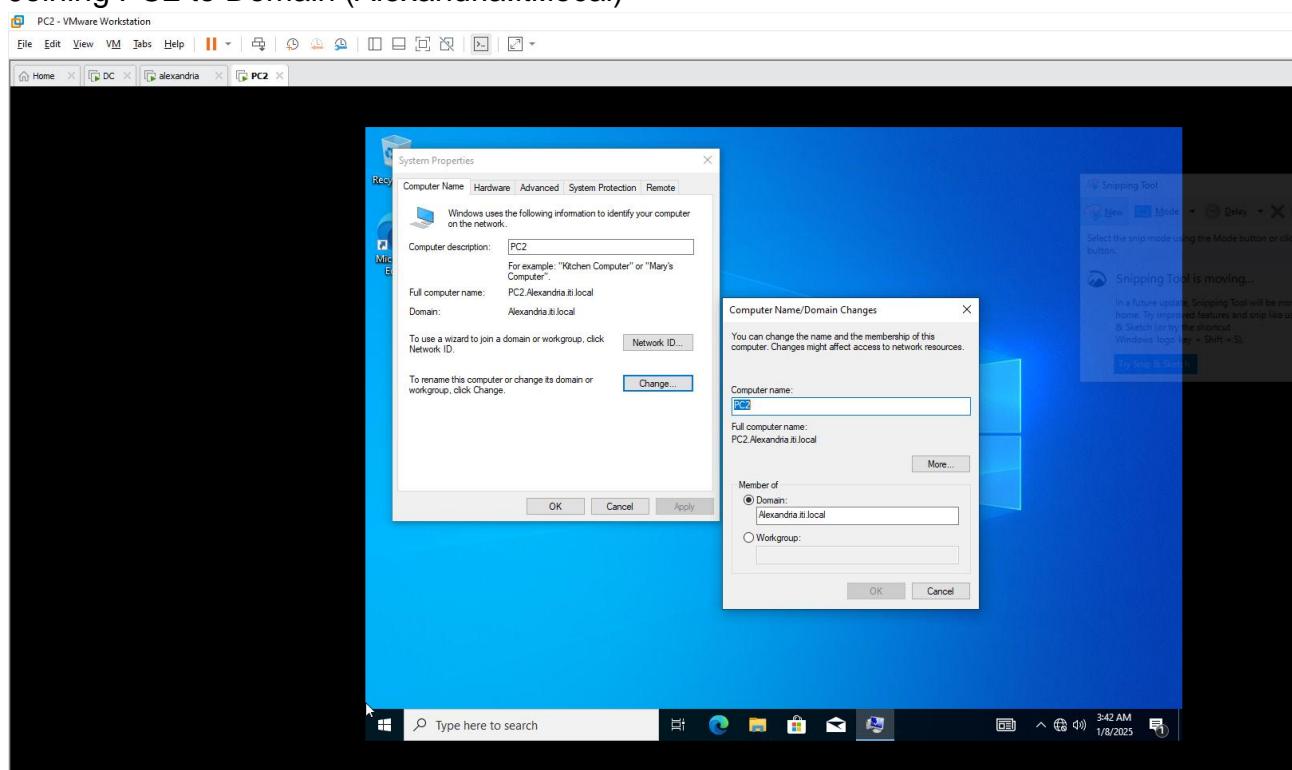
- User9 can login to PC3 as PC3 is added to Domain (ITI.Local)
- And can replicate his password to the RODC as he is member of Account Operators



CHILD Domain Controller (Alexandria.iti.local)

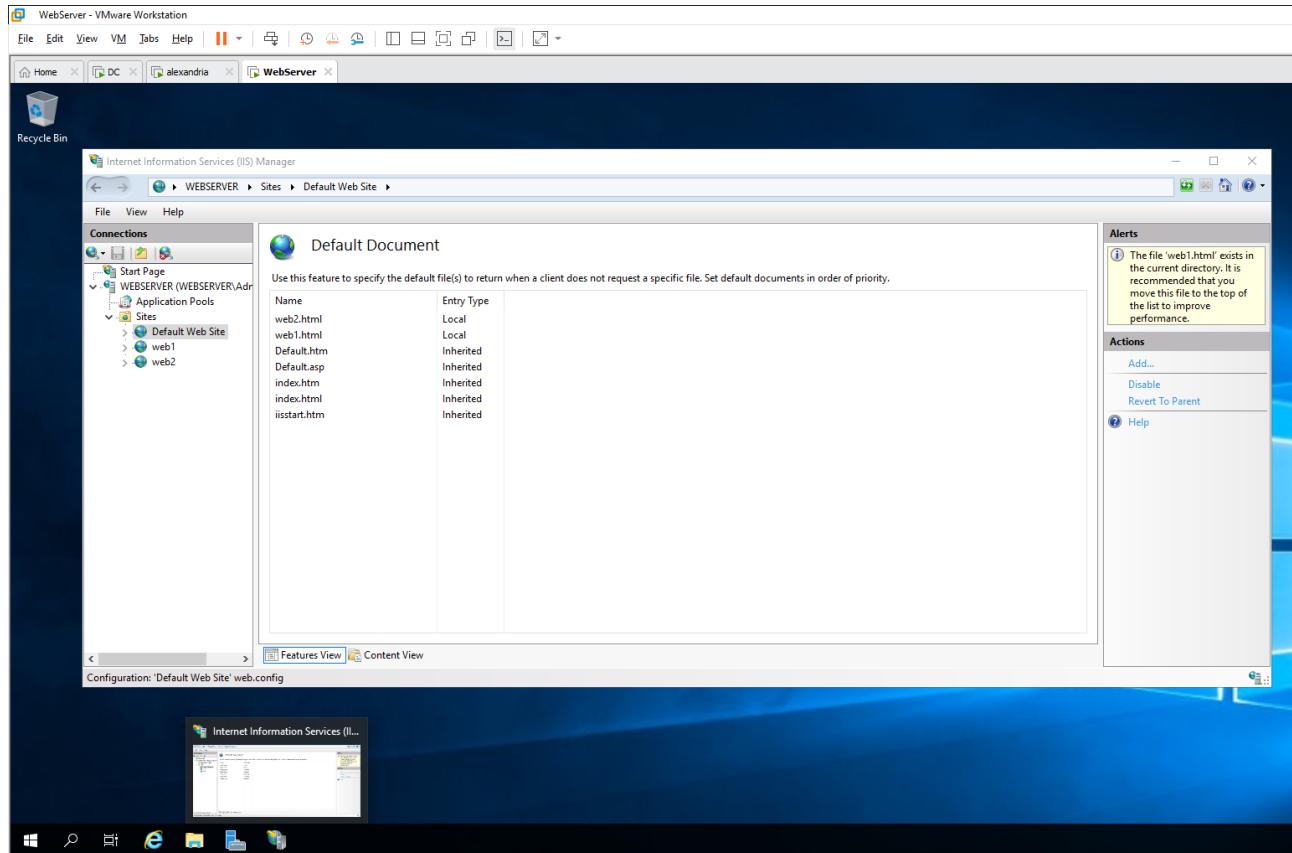


Joining PC2 to Domain (Alexandria.iti.local)

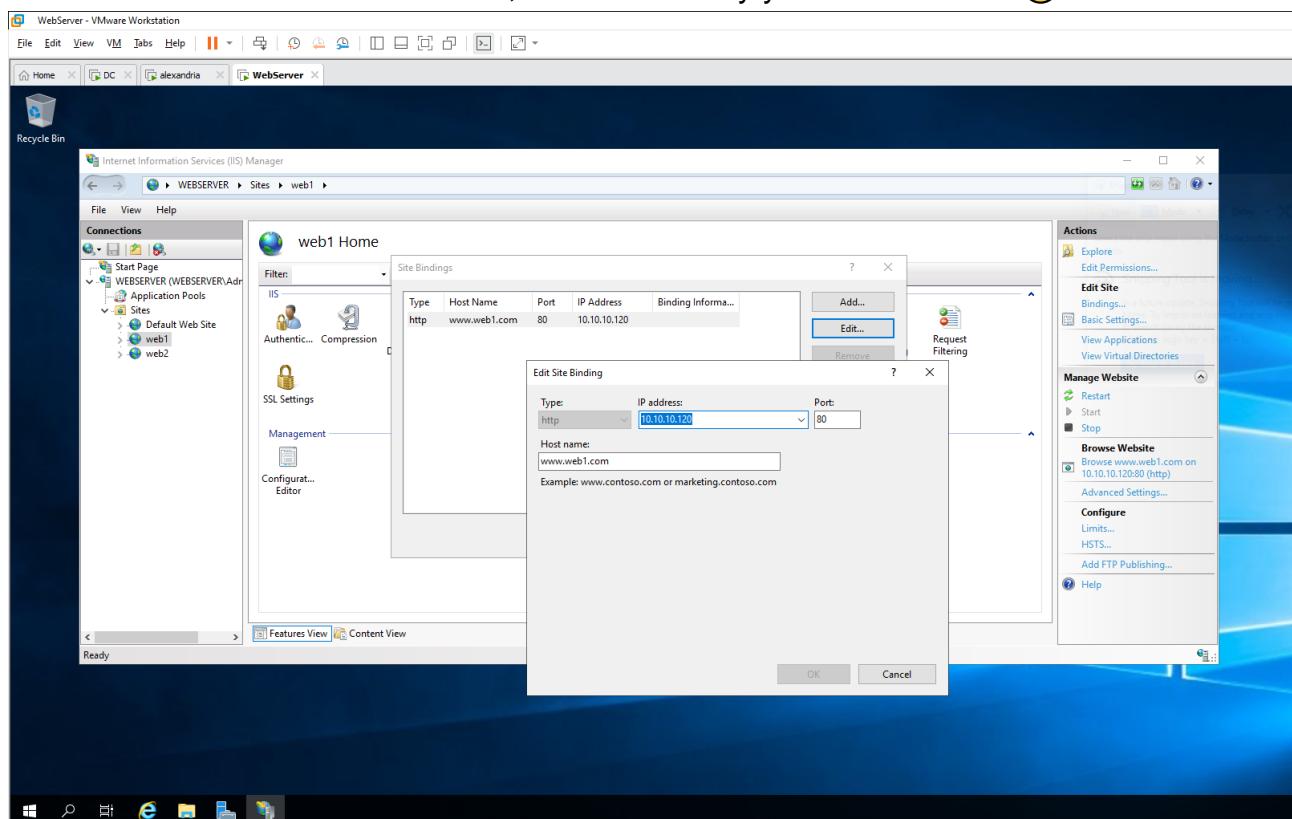


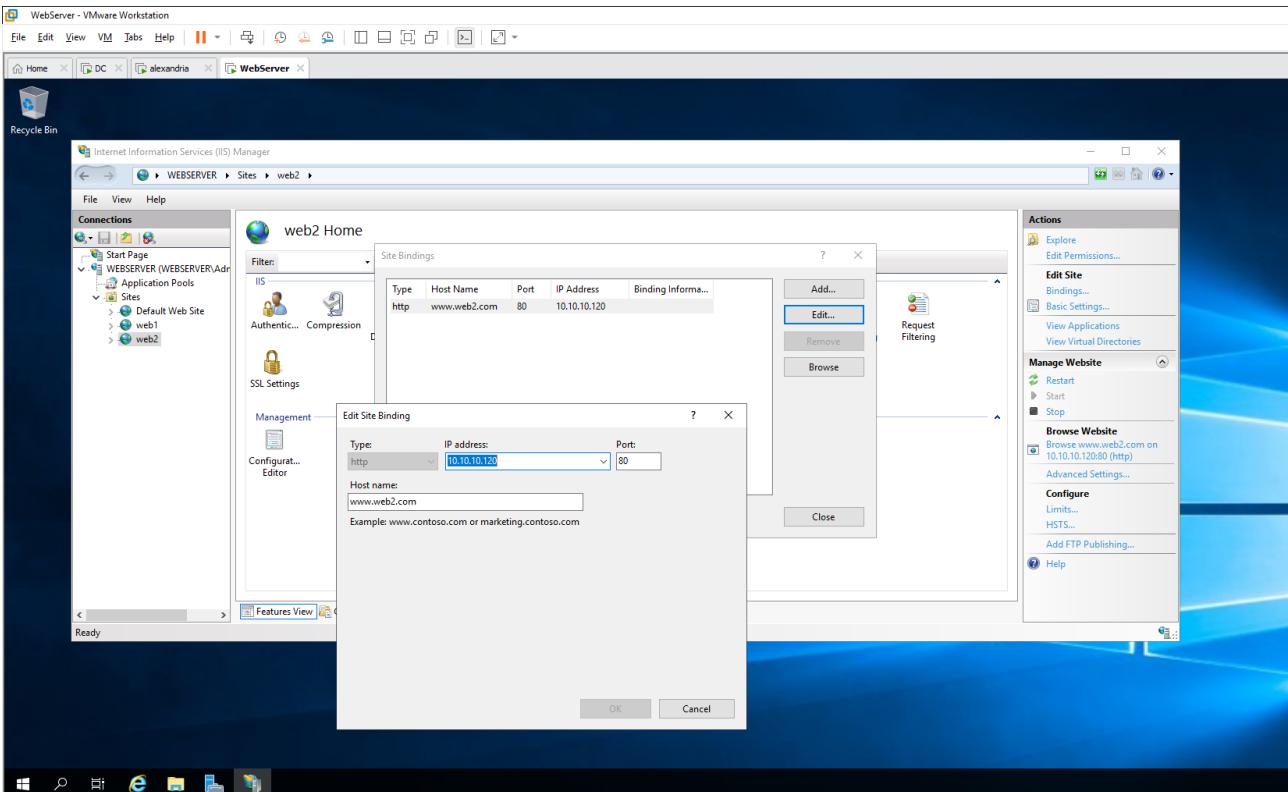
Creating User6 on child server (Alexandria.iti.local) as shown before.

Creating WebServer by Adding (**internet information service**) IIS role to a new server
And creating two websites (my own websites created by Elham) 😊



- One Mistake I did but I learnt from it, I would like to remember :>
Don't Remove Default Web Site, if it is necessary you can disable it 😊

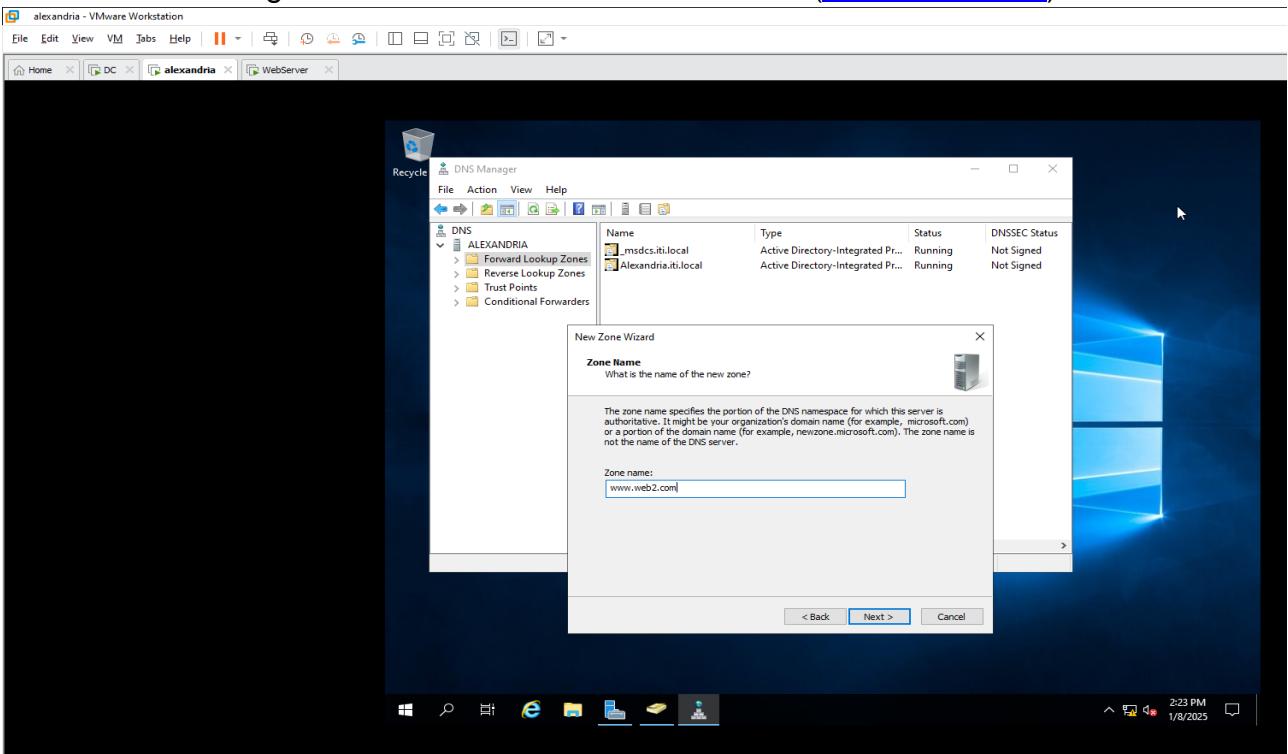


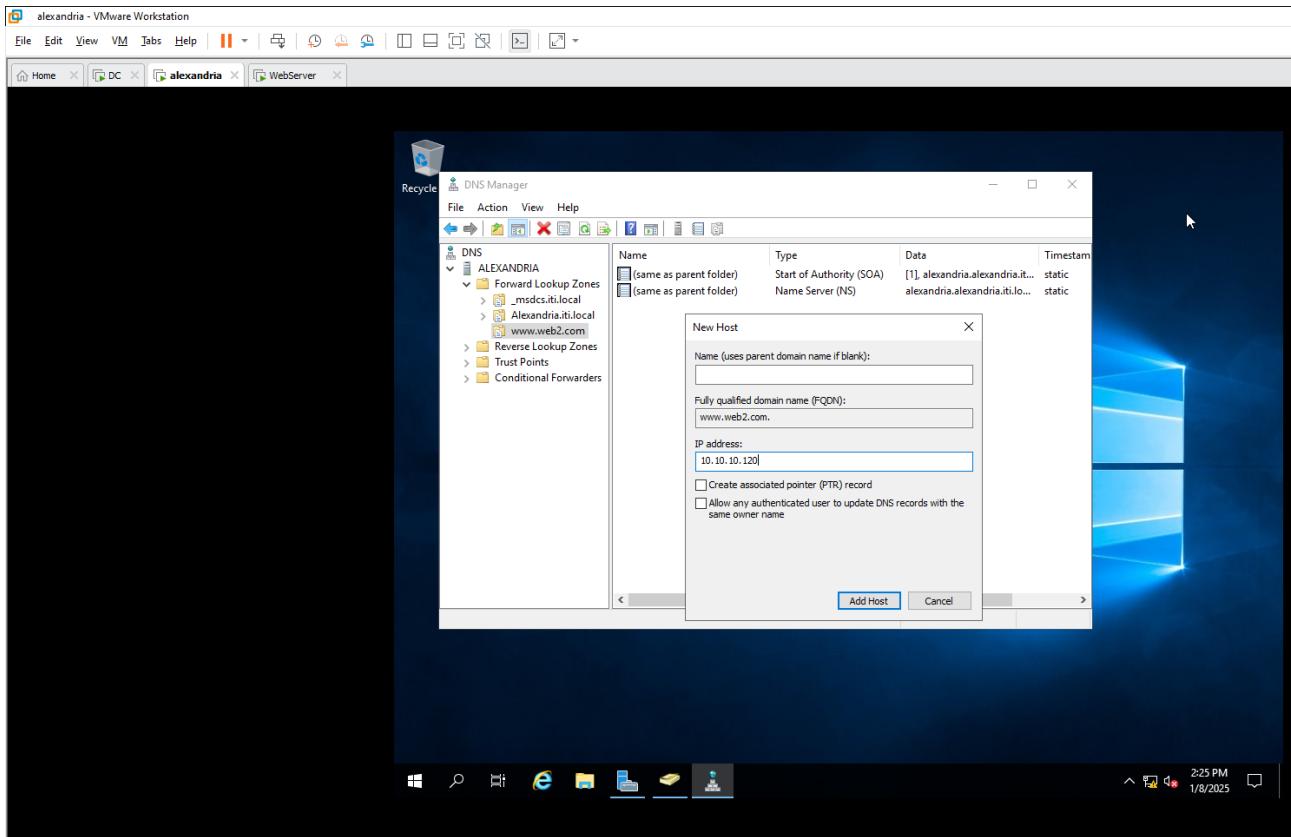


- **Required:** User6 can browse <http://www.web2.com> from his local DNS in Alexandria “secondary Zone and FTP Server There.

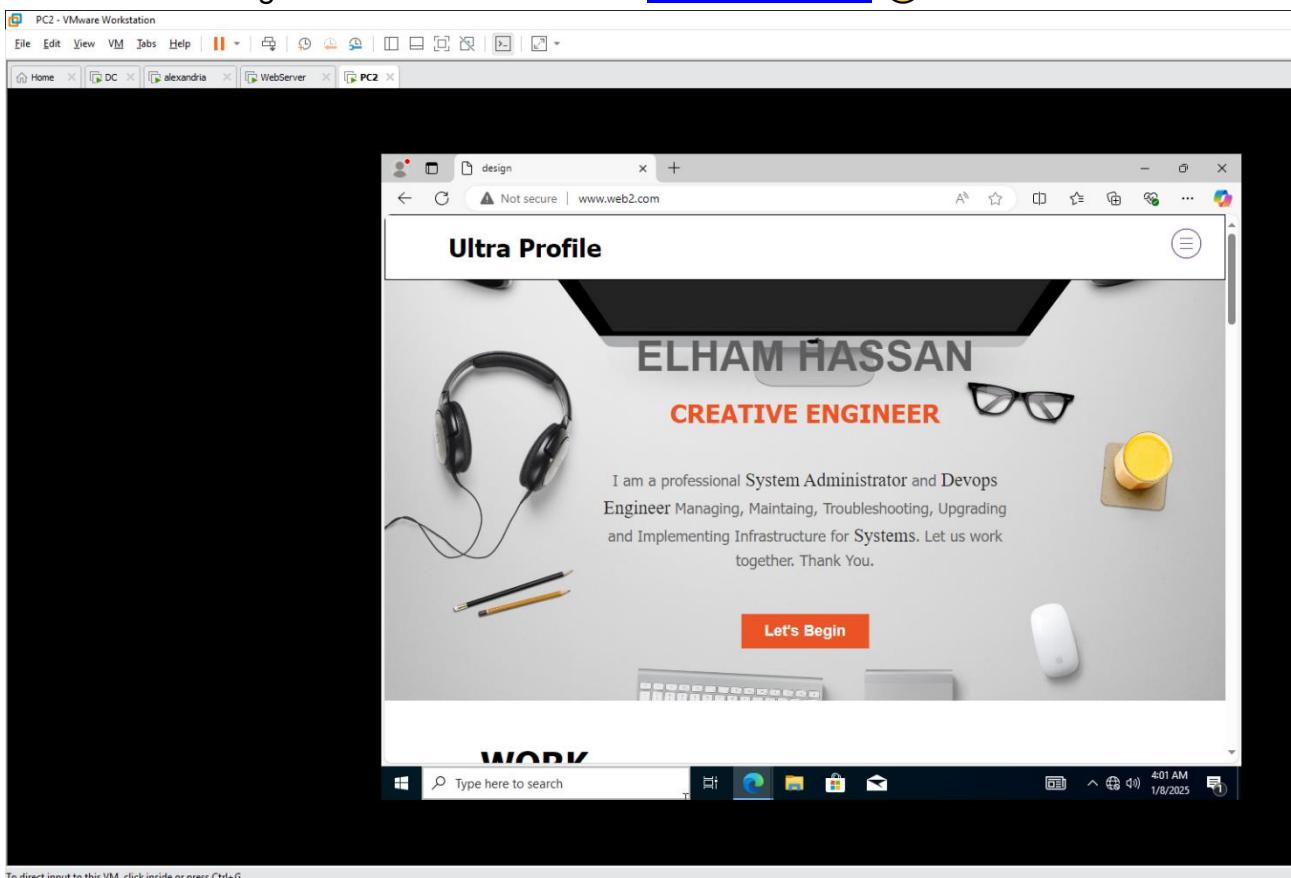
Steps:

- Adding new zone to DNS of Alexandria.it.local
- And then adding new host to that Zone for Web Site2 (www.web2.com)





Now User6 can login PC2 to and can access www.web2.com 😊

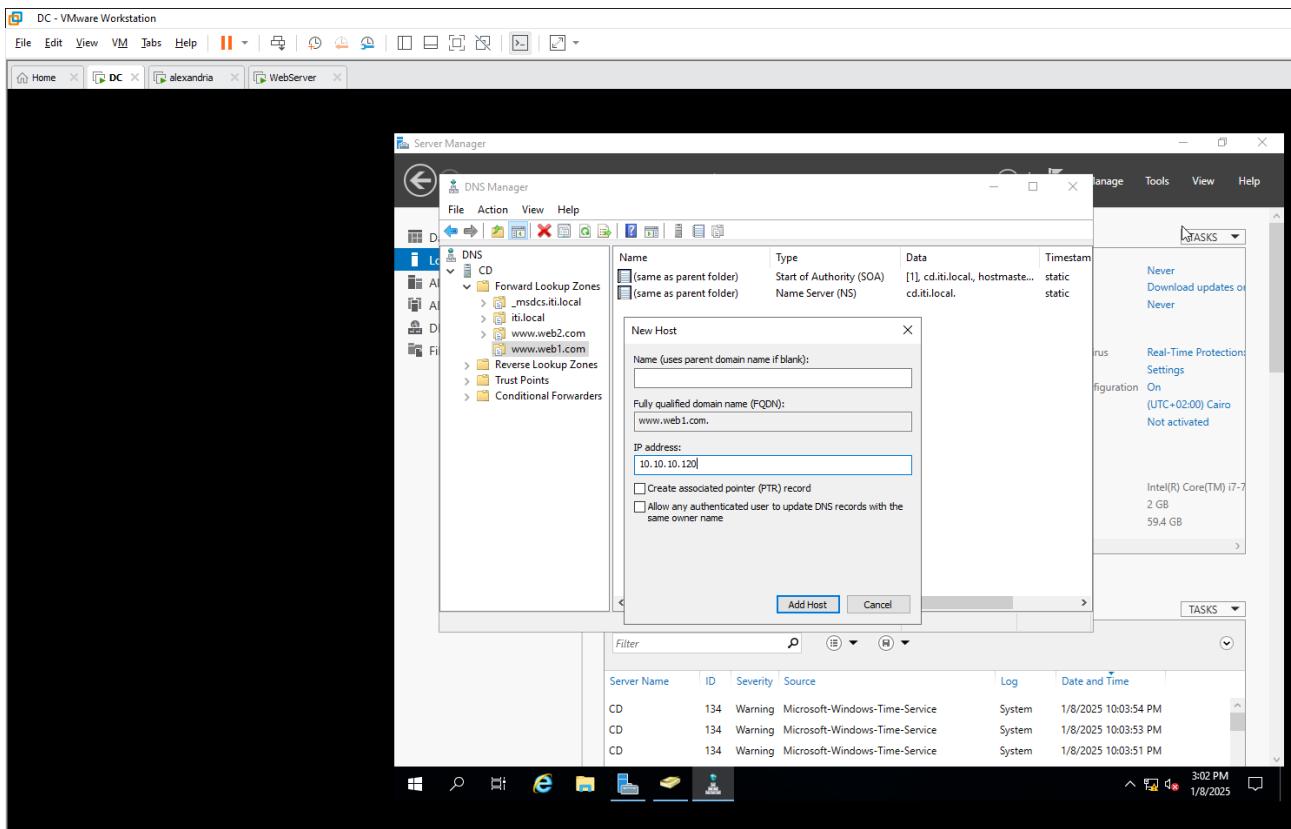
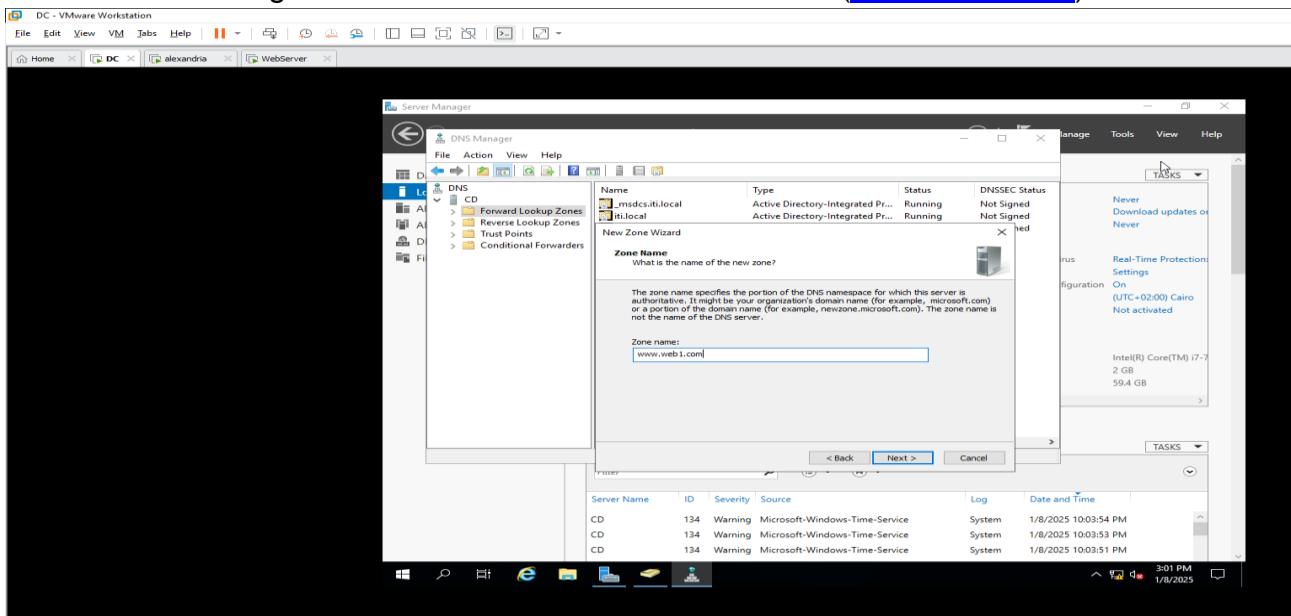


@***** One Modification to The Topology: user7 and PC4 are added to OU called "managers" at DC server *****@

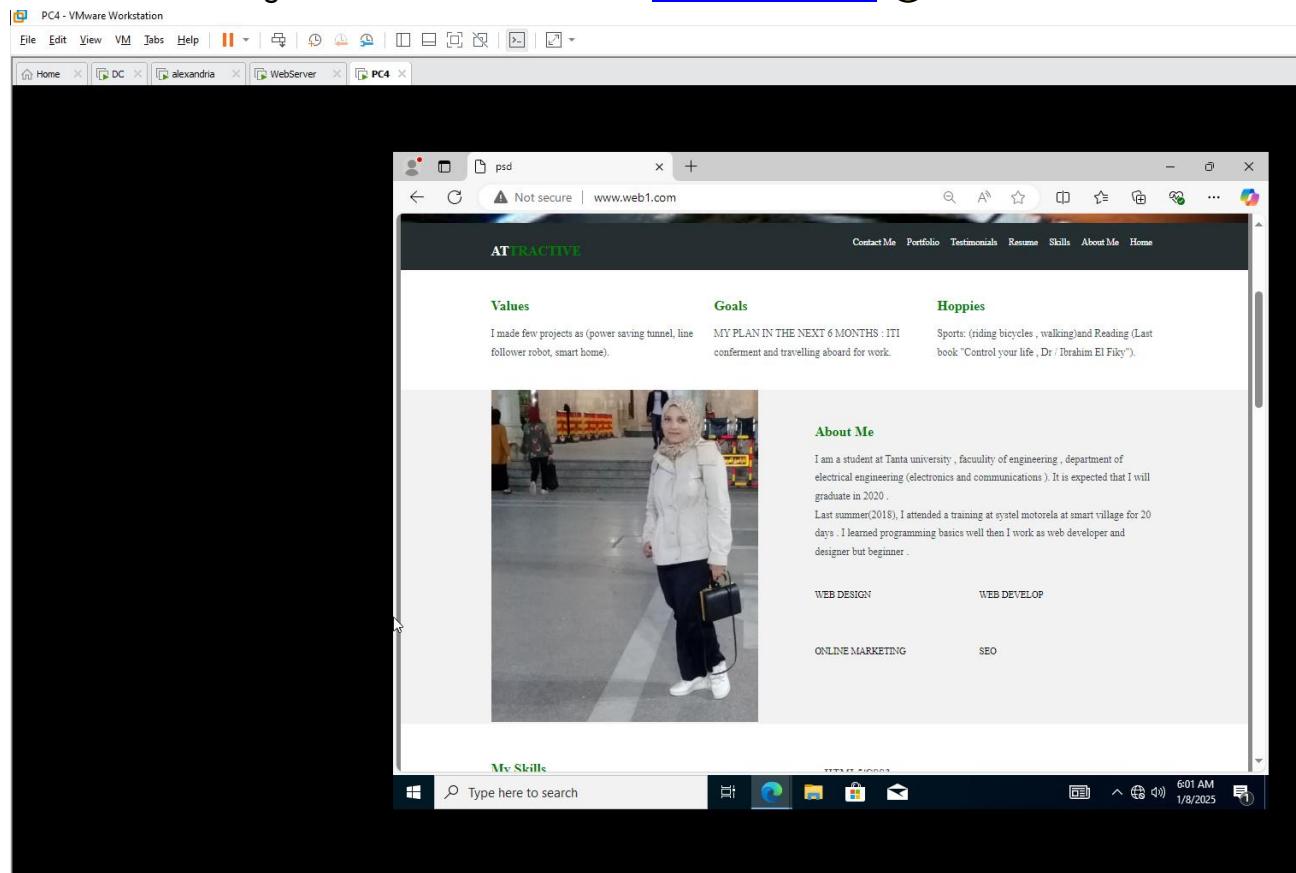
➤ **Required: User7 can Browse <http://www.web1.com> from PC4**

Steps:

- Adding new zone to DNS of iti.local
- And then adding new host to that Zone for Web Site1 (www.web1.com)



Now User7 can login PC4 to and can access www.web1.com 😊

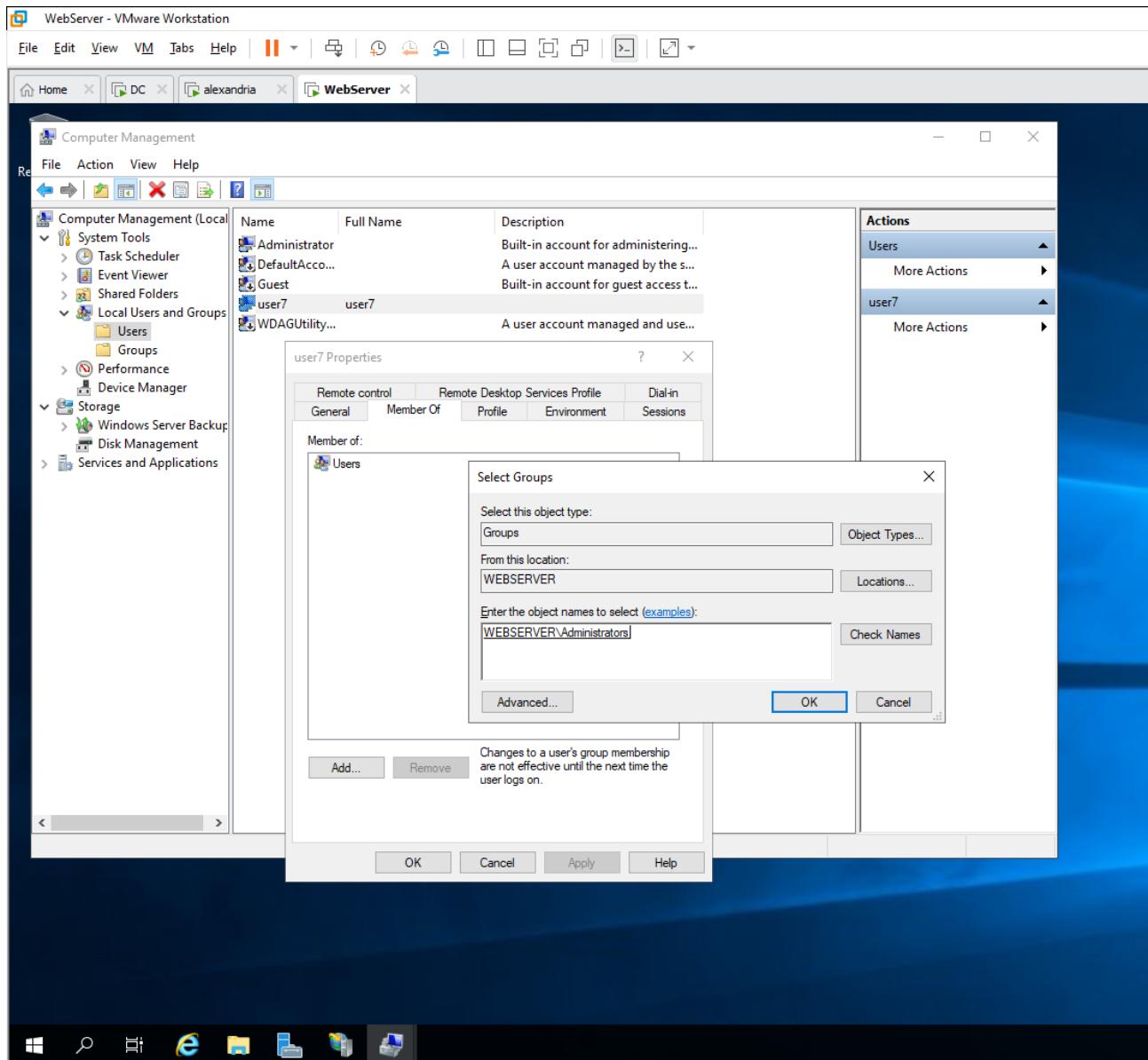


To direct input to this VM, click inside or press Ctrl+G.

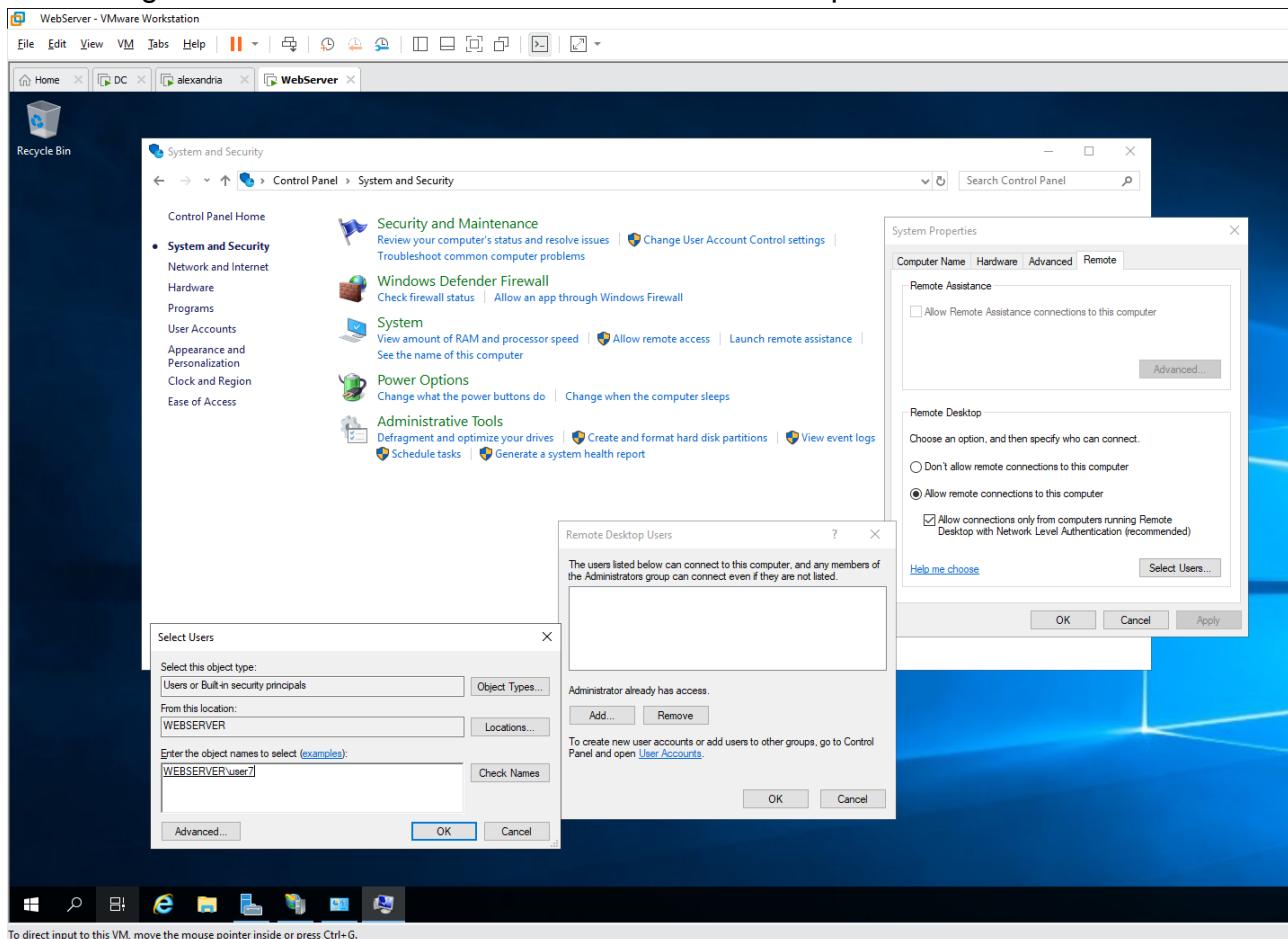
➤ **Required: user7 can access remotely the webserver with administrative privileges**

Steps:

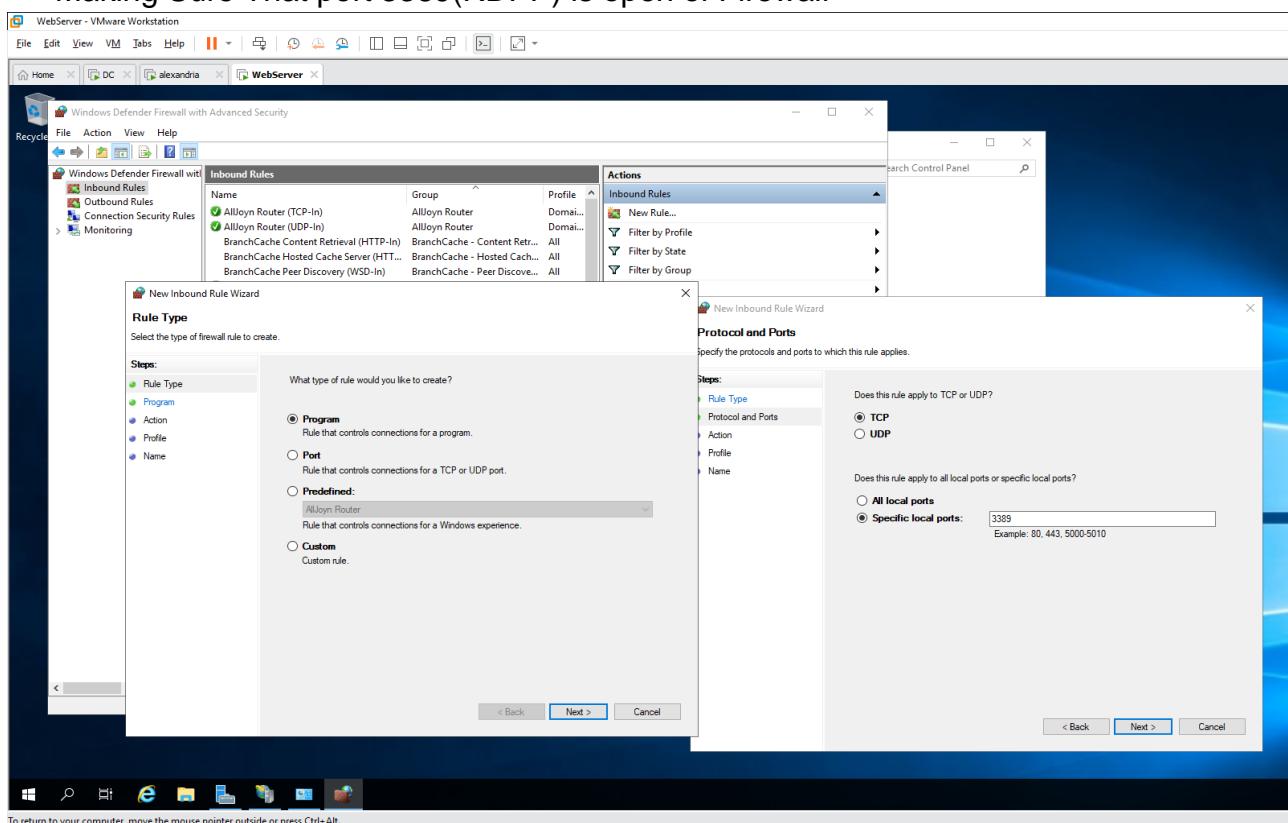
- Make user7 a member of webserver administrators

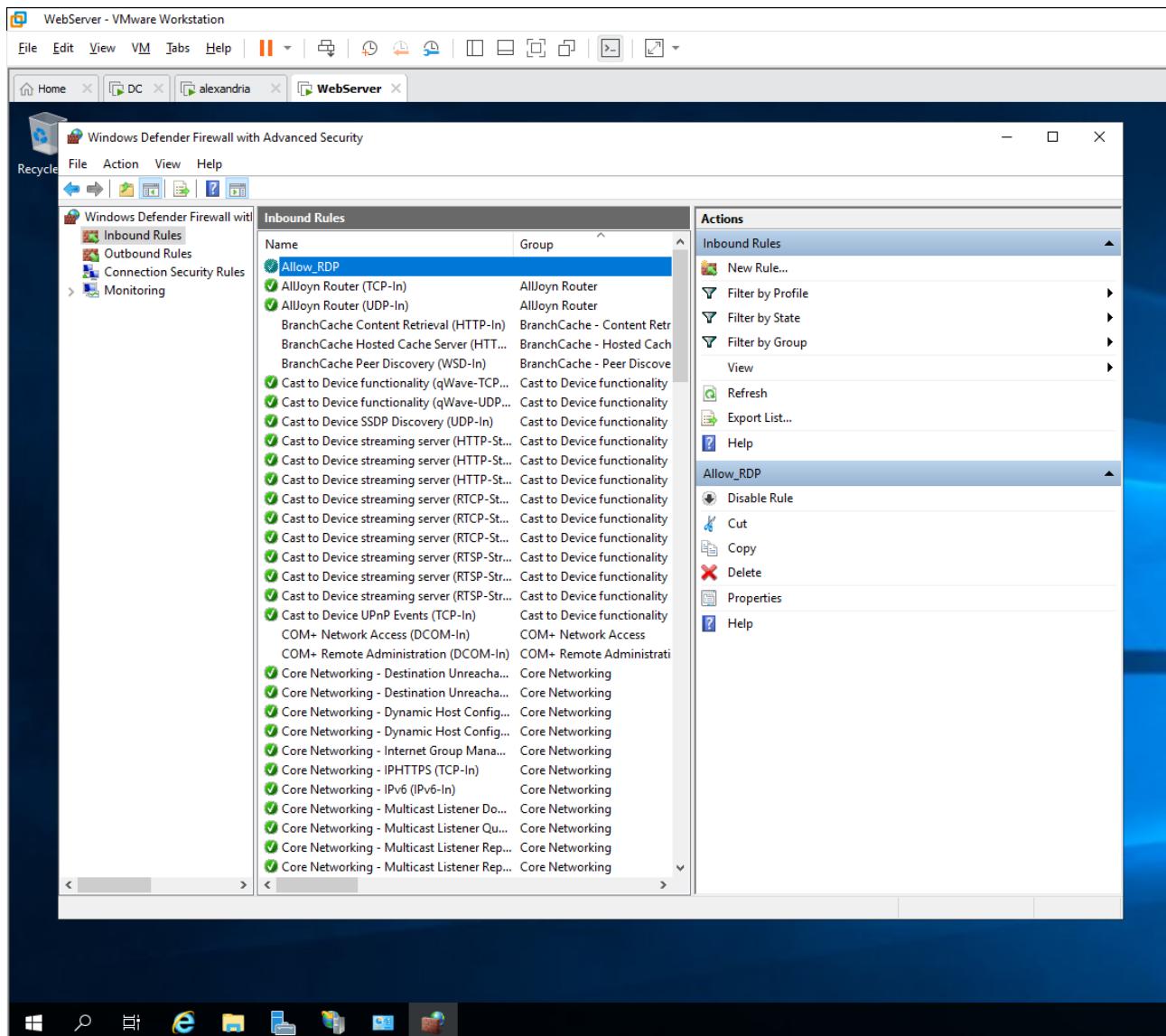


- Making Sure That the WebServer allow Remote Desktop Connection

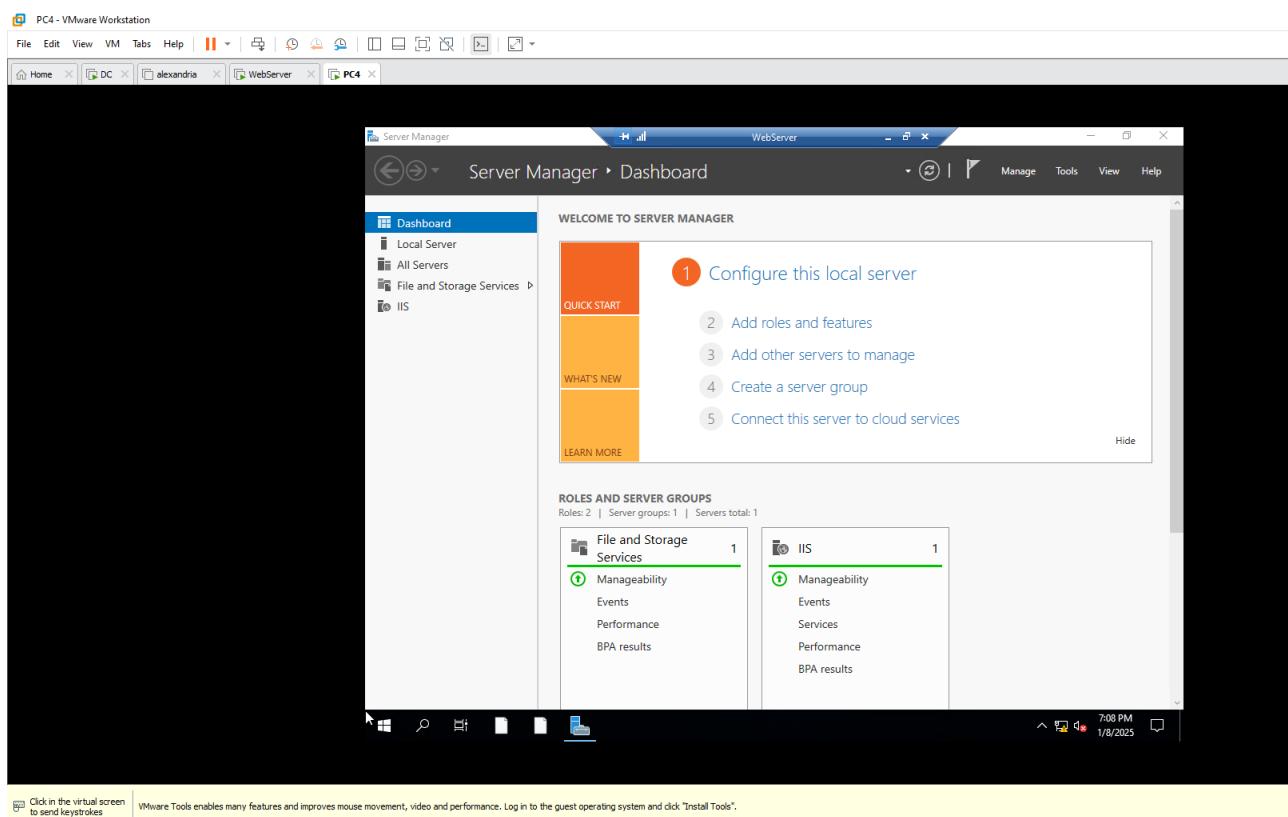
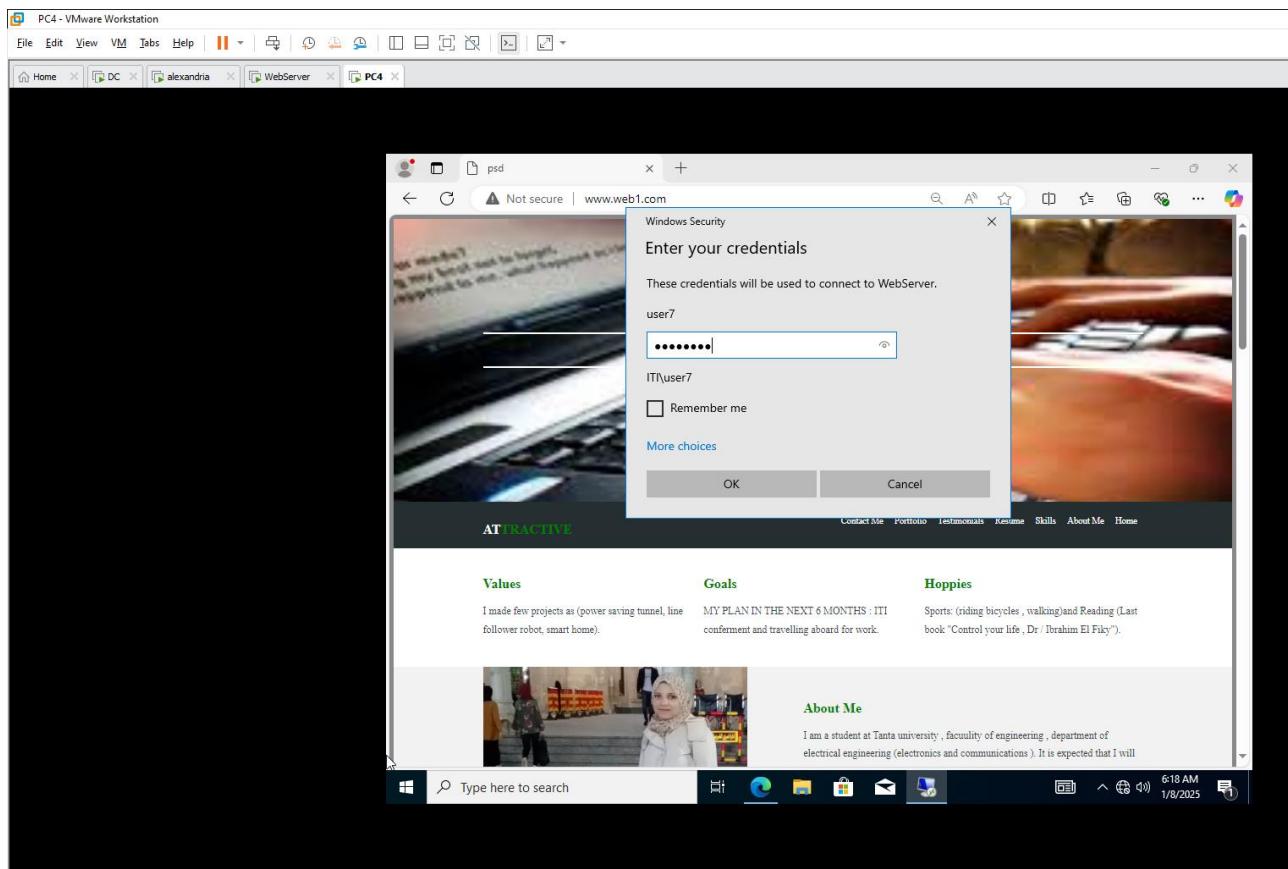


- Making Sure That port 3389(RDPP) is open of Firewall





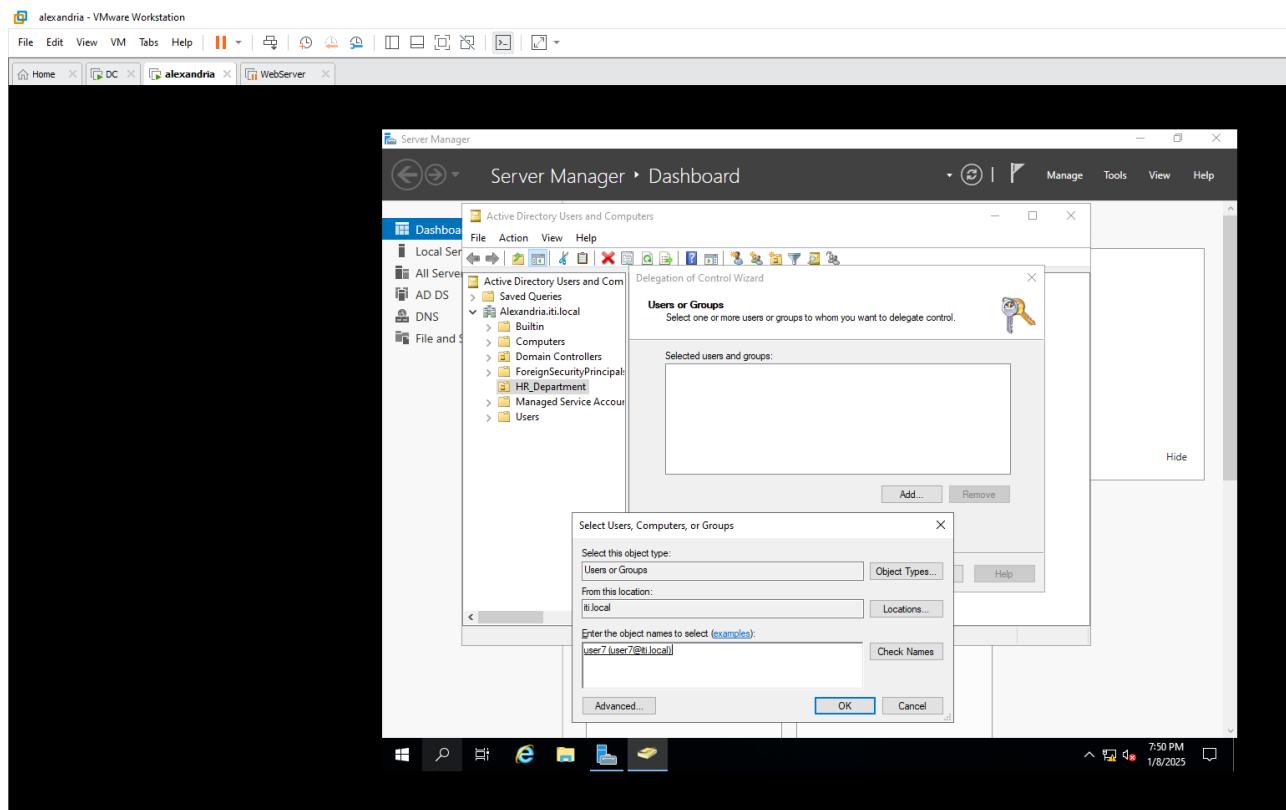
- Checking user7 can access remotely WebServer with Administrative Privelleges

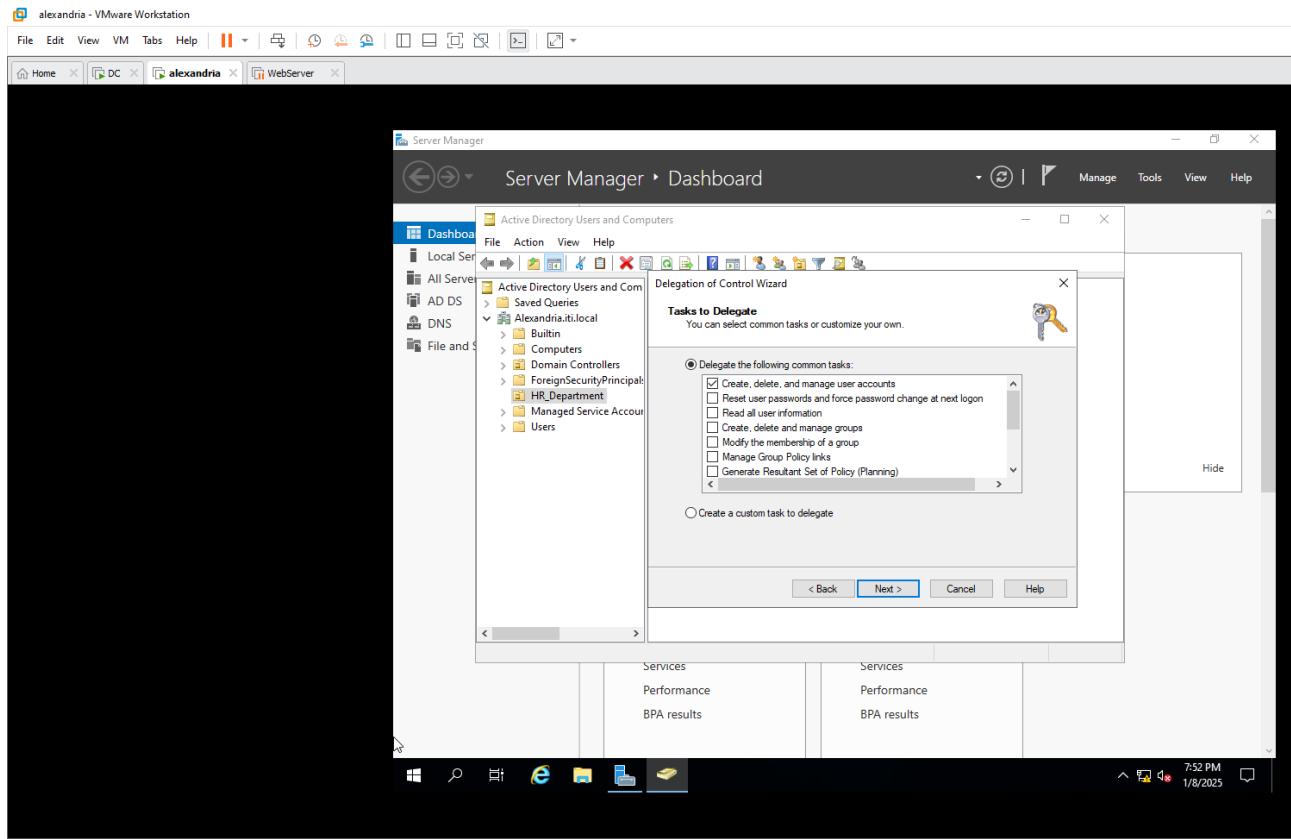


- **Required: User7 can Create and delete users on HR Department in Alexandria.iti.local**

Steps:

- Creating HR-Department OU in Alexandria.iti.local and grant user7 a delegation control to create and delete users





The END 😊
Elham Hasan