

# Business Environment Project

## Using Windows Server

### **Requirements:**

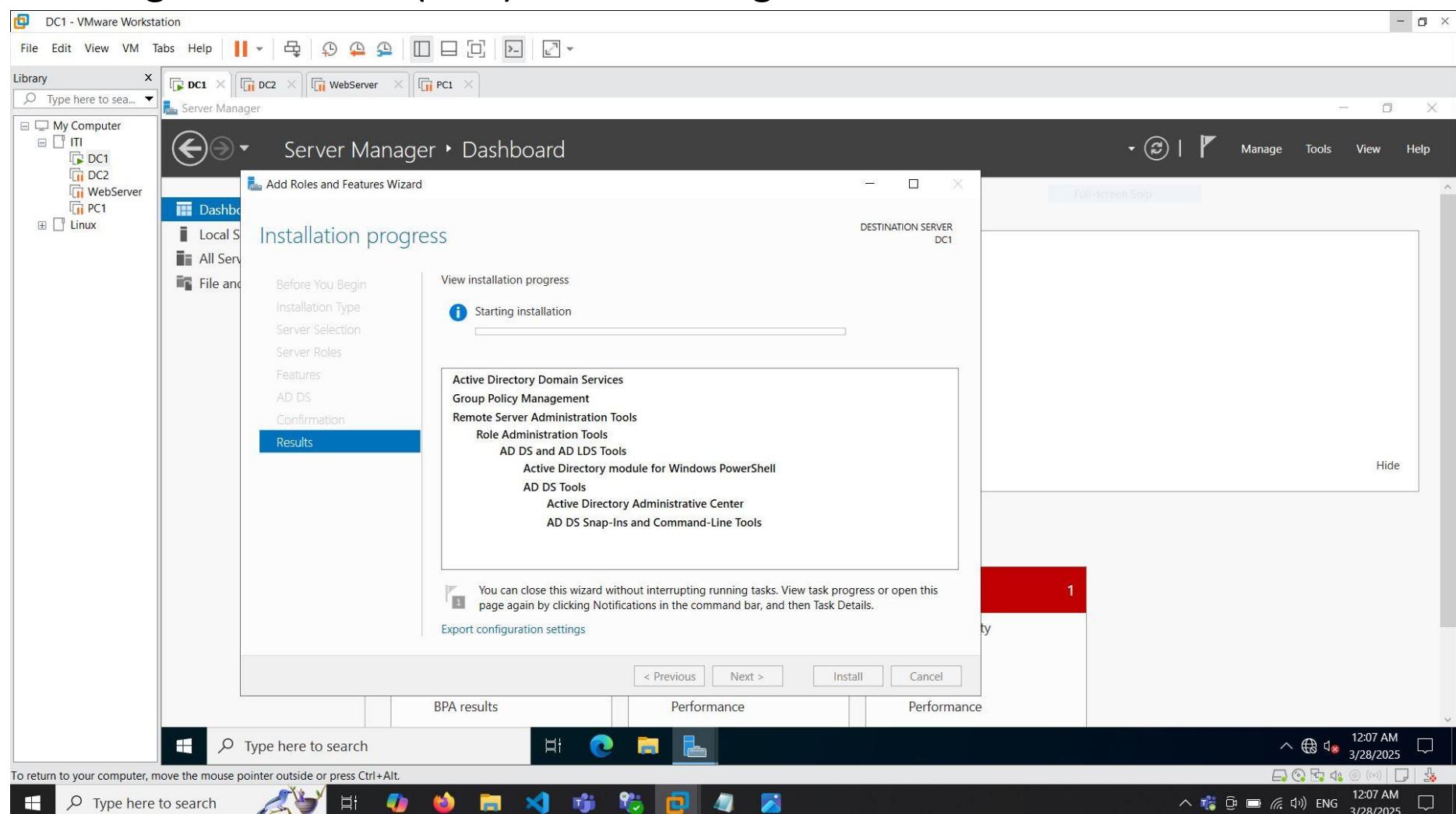
1. Computer Device
2. Vmware Workstation
3. Windows and Windows Server iso files

### **INDEX:**

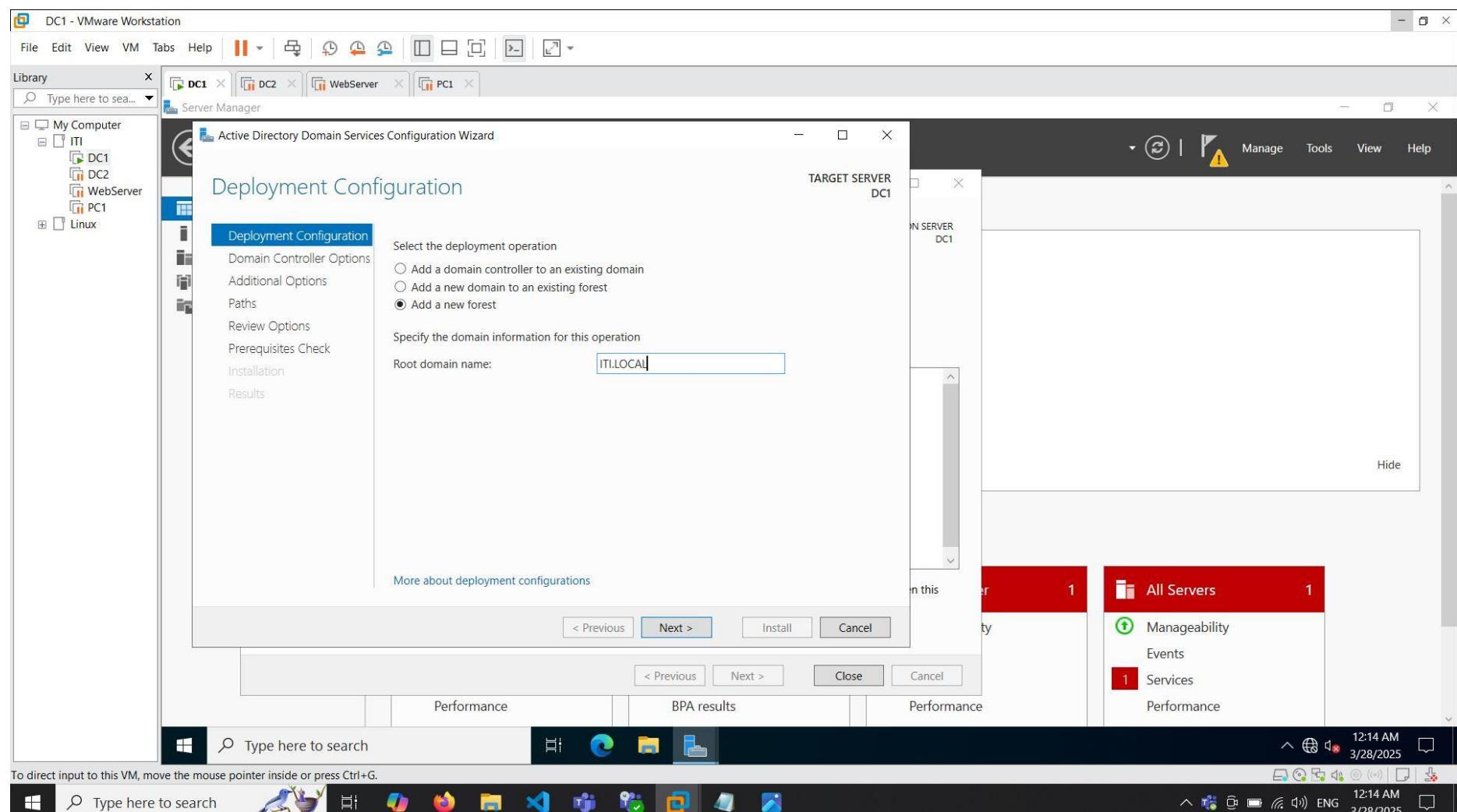
1. Installing and Configuring AD DS	3
2. Creating Organizational units	5
3. Assigning Logging time for HR Dept	6
4. Creating Group polices	7
5. Installing DHCP server	9
6. Installing the AD RODC	10
7. RODC options	11
8. Verifying connection between (DC - RODC)	12
9. Installing and configuring Web Server	13
10. Remote Accessing the Web Server	14
11. Creating websites	15
12. Linking websites with DNS zones	16
13. Creating FTP server	17
14. Configuring PC	18
15. Verifying Group Polices on HR Dept	19
16. Browsing Websites	21
17. Verifying Mohamed can Remote Access Webserver	22
18. Getting log files from the FTP server	23
19. Installing Child DC (Bonus)	24

## A. DC1:

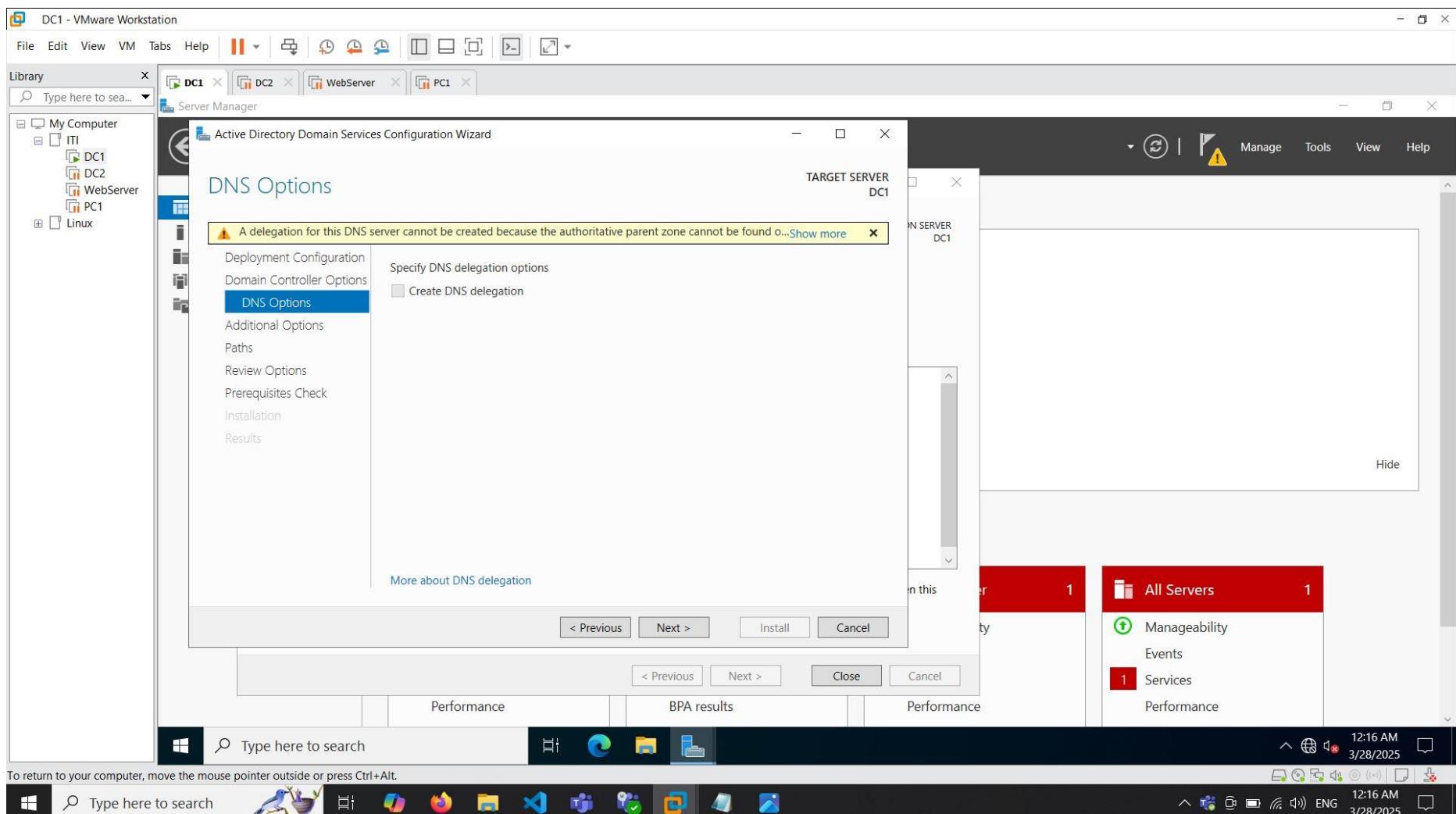
### Creating a win server (DC1) and installing AD DS



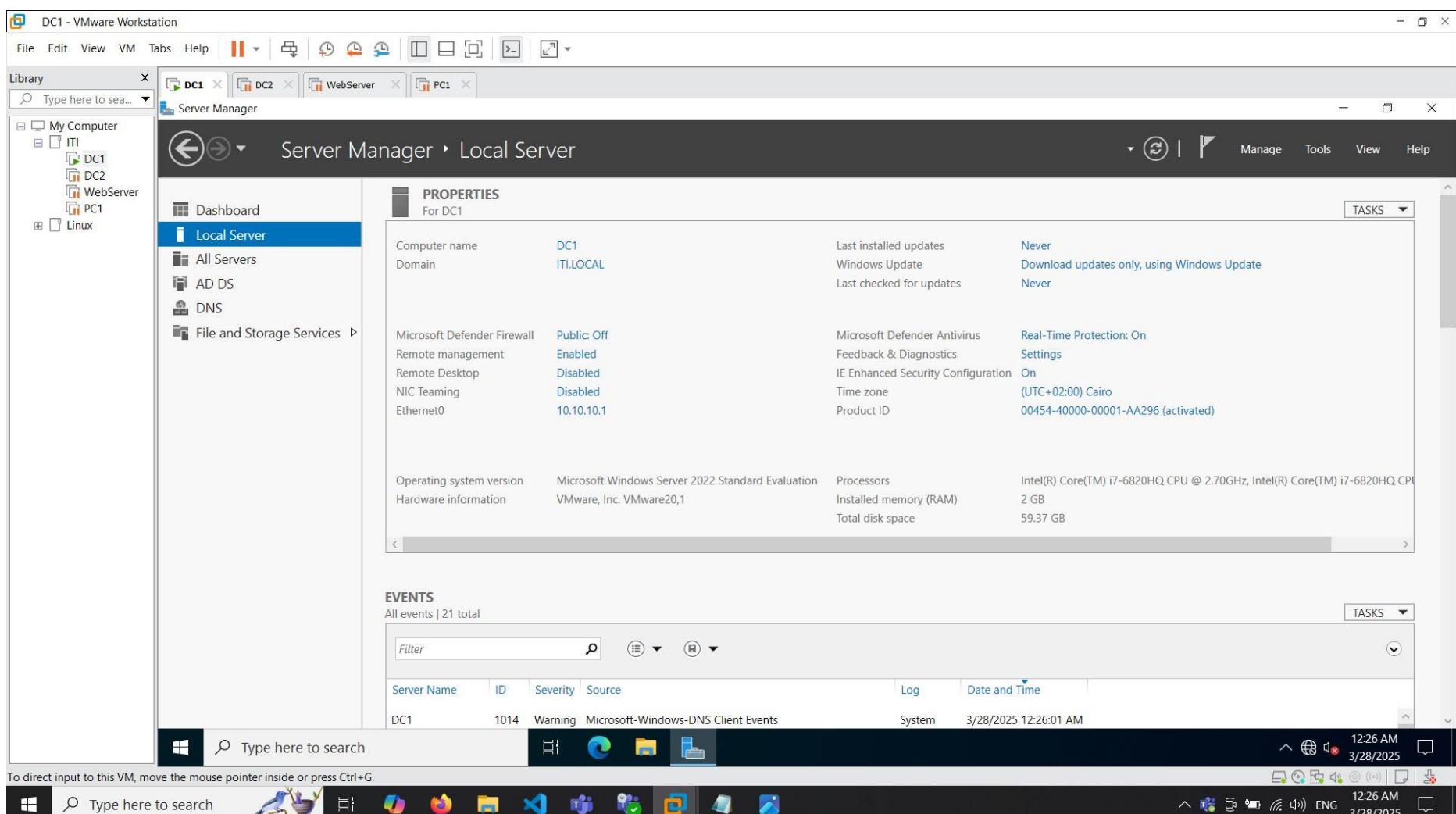
### Configuring the Domain name: ITI.LOCAL



Since we haven't installed a DNS server manually the AD DS configuration wizard will install it for us

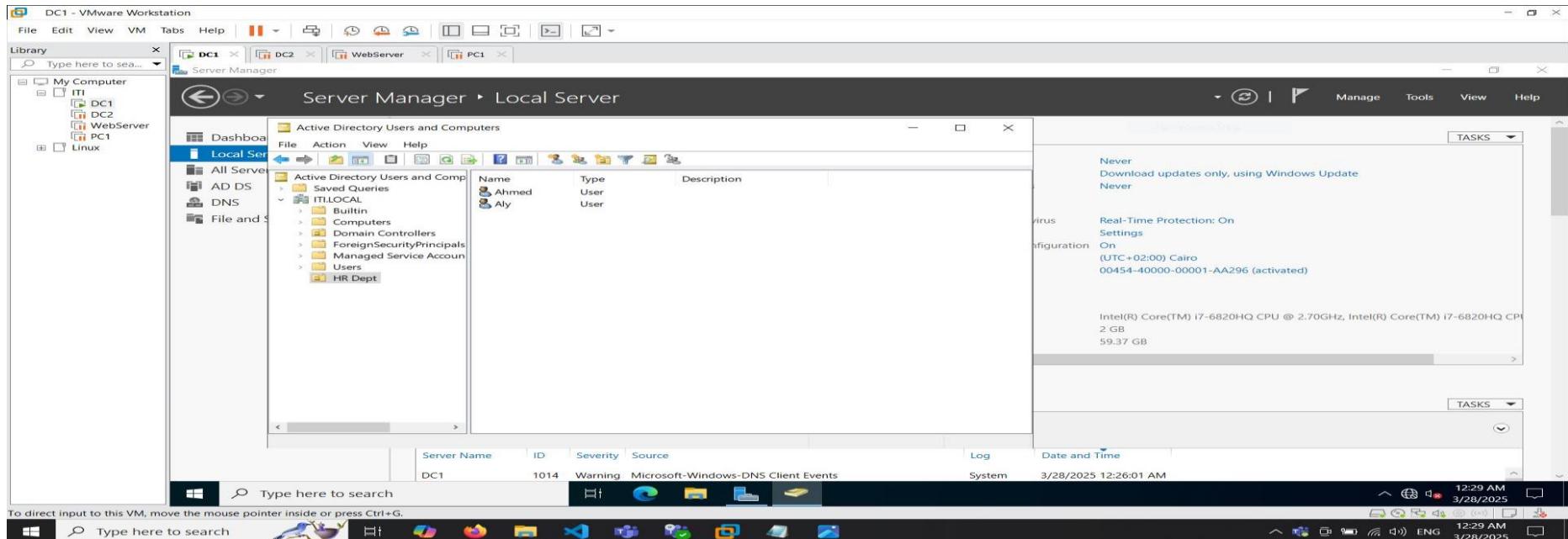


We now have our AD DS & DNS installed successfully on the server

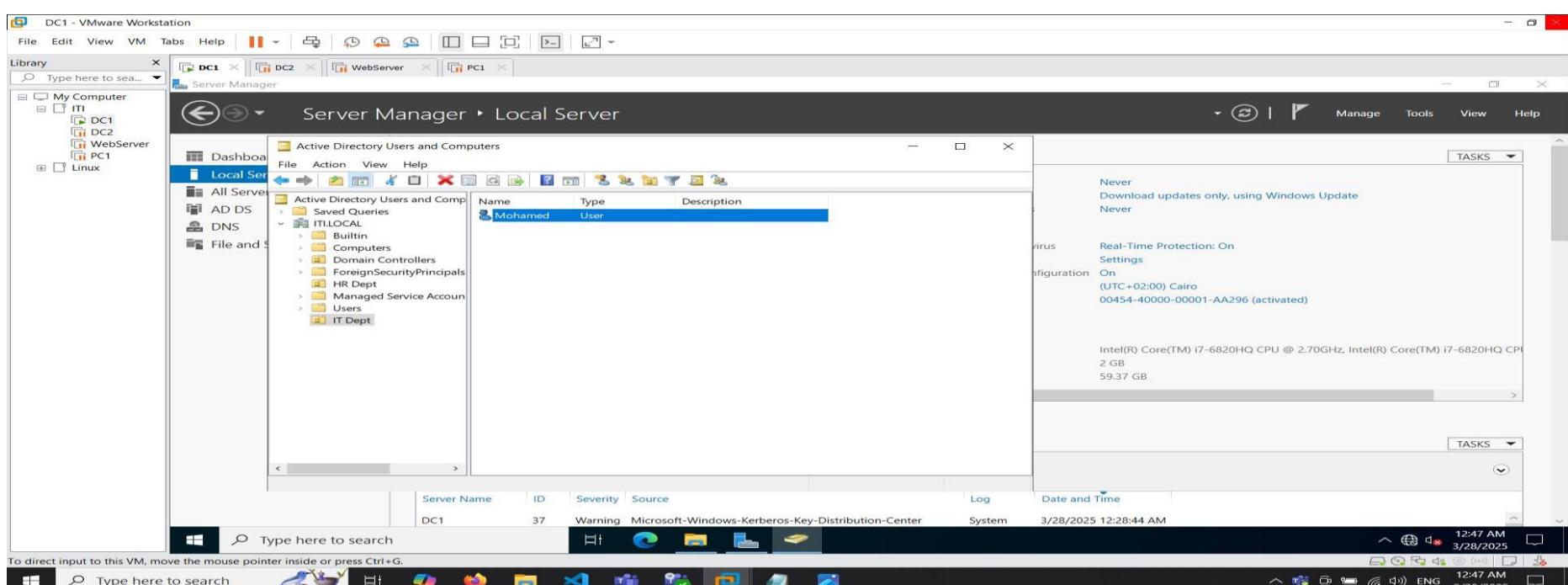


## 2. Creating an Organizational Units:

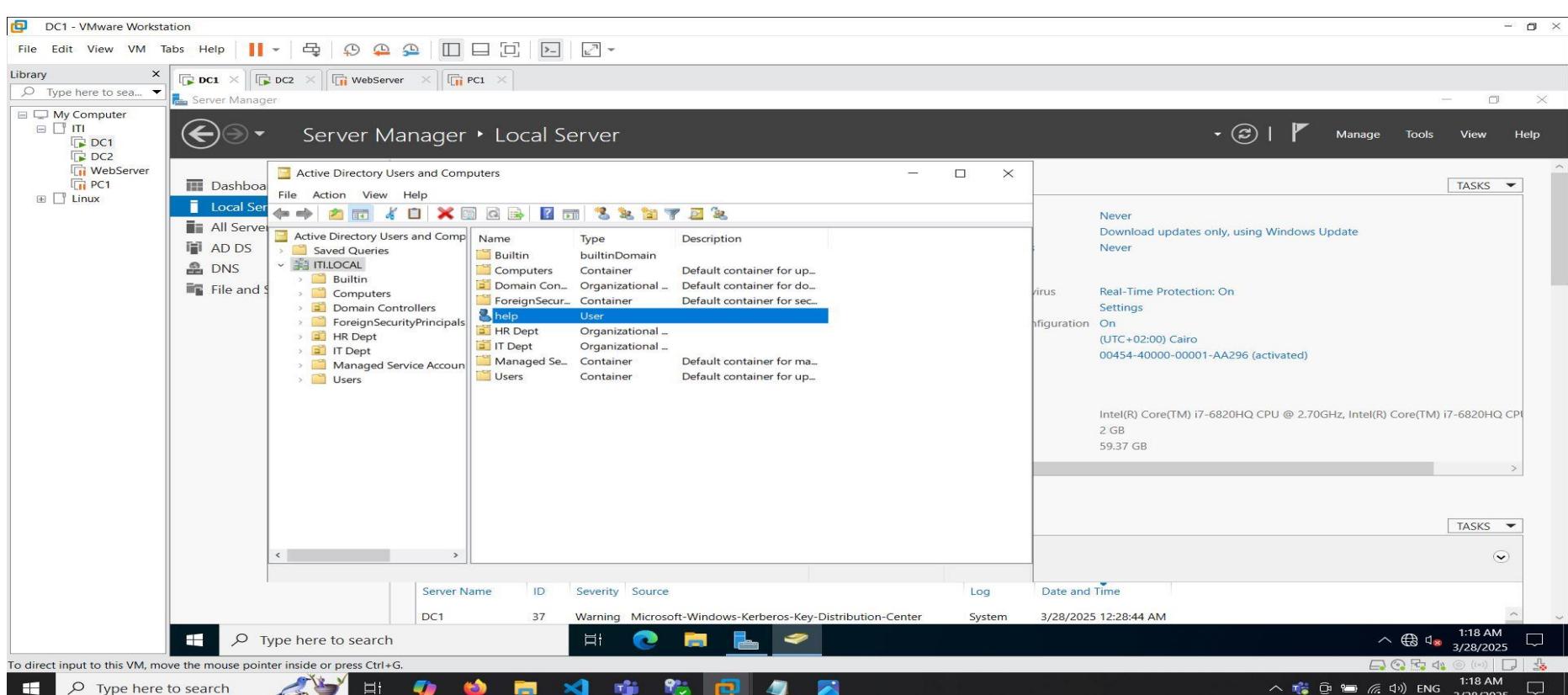
HR Dept and users (Aly - Ahmed)



IT Dept and users (Mohamed)

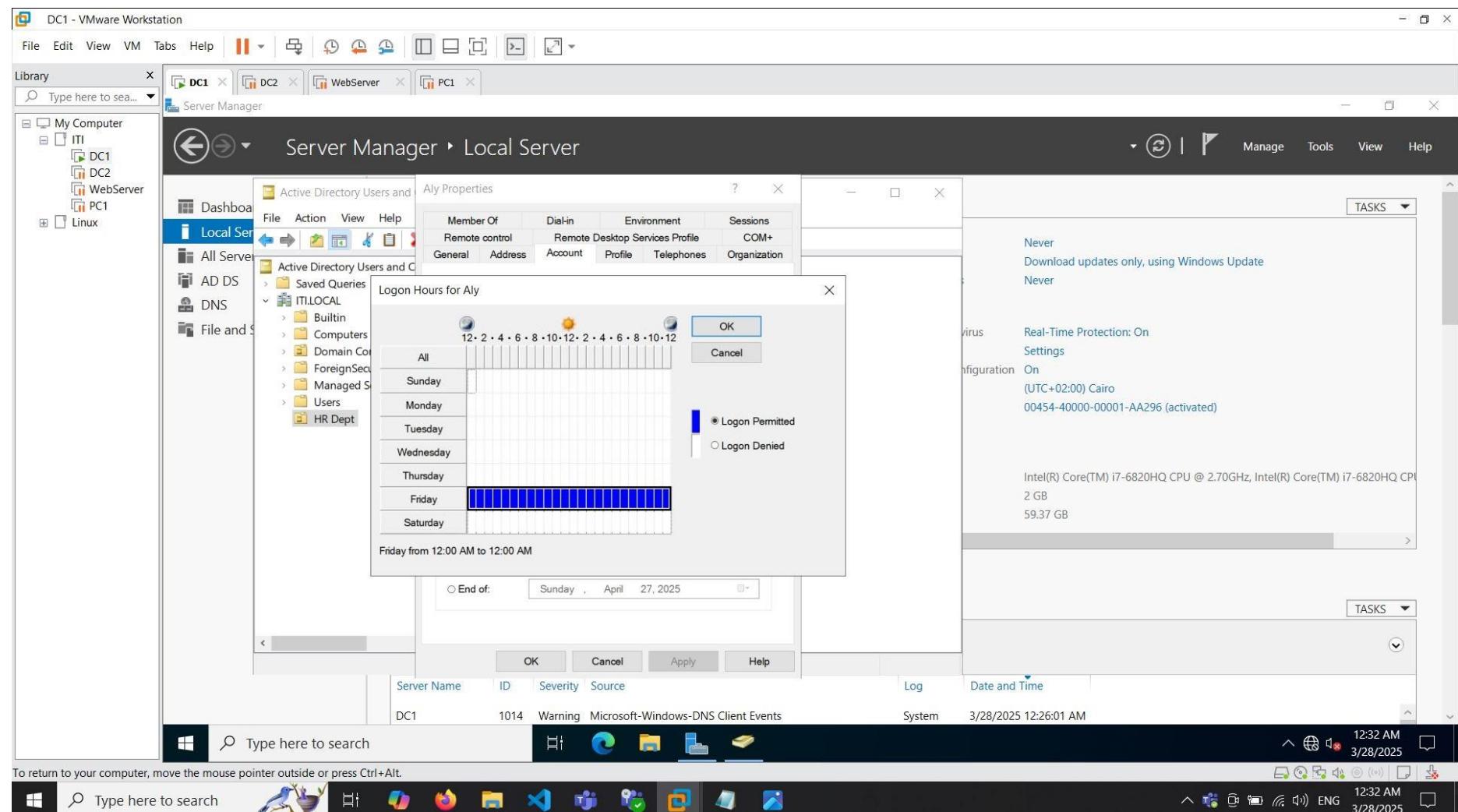


User (help) will be used later to delegate RODC

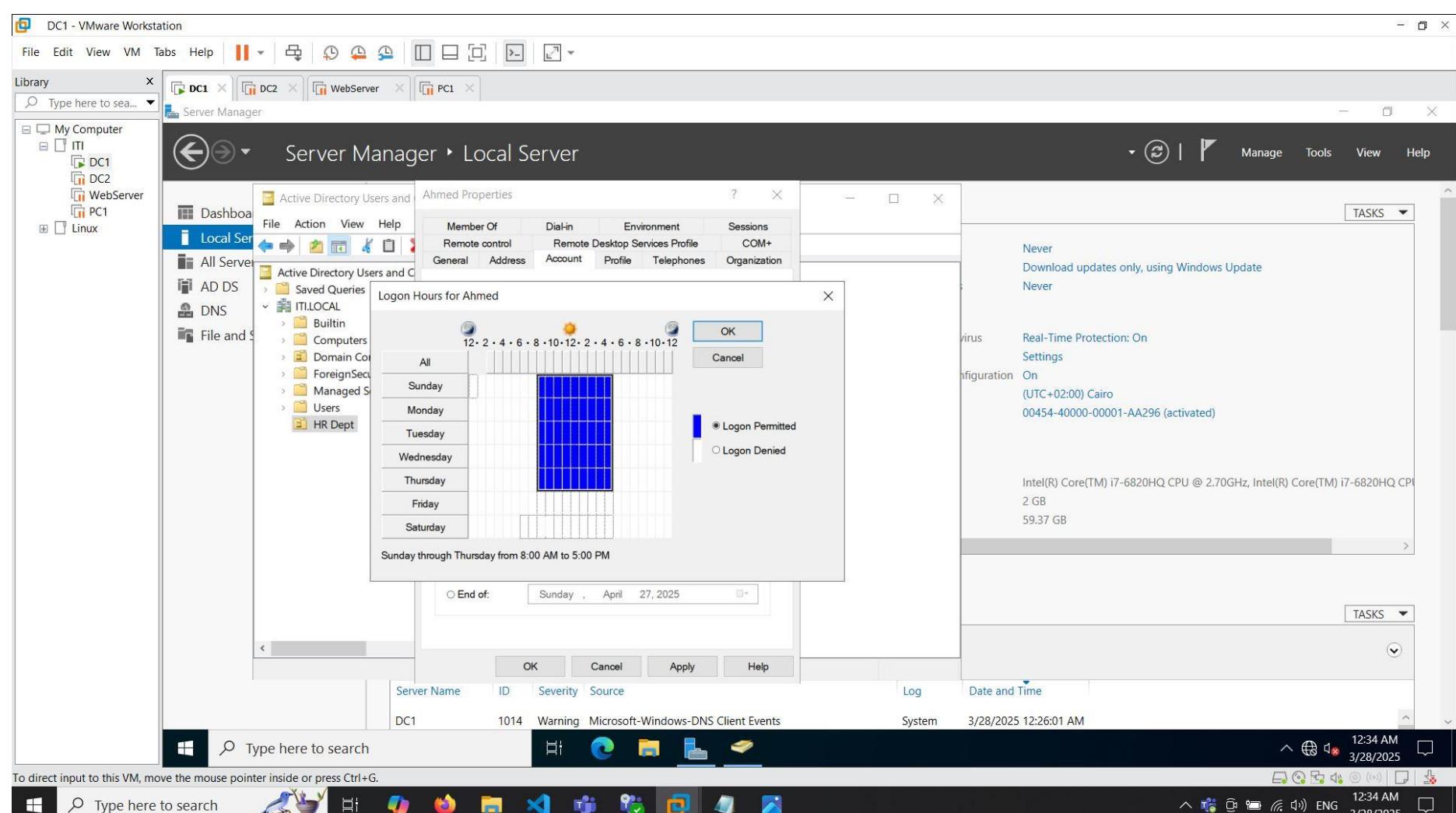


### 3. Setting logon times in the HR Dept

Aly: Fridays only

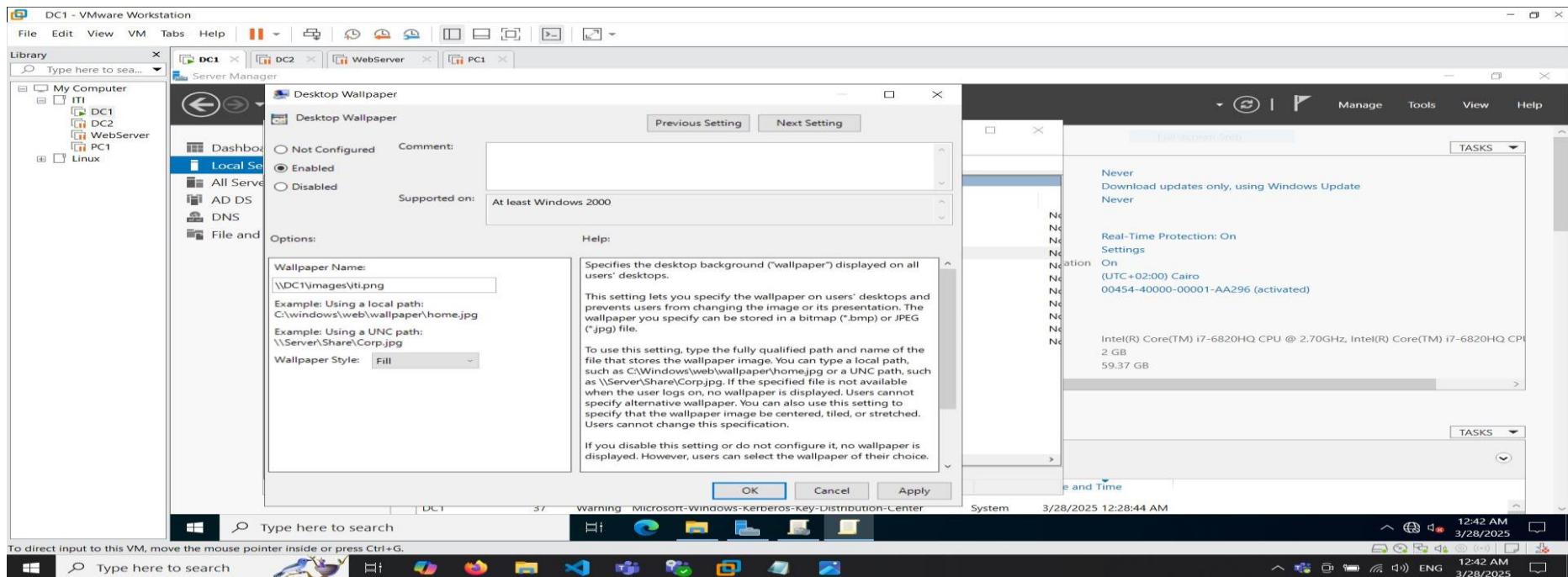


Ahmed: Workdays



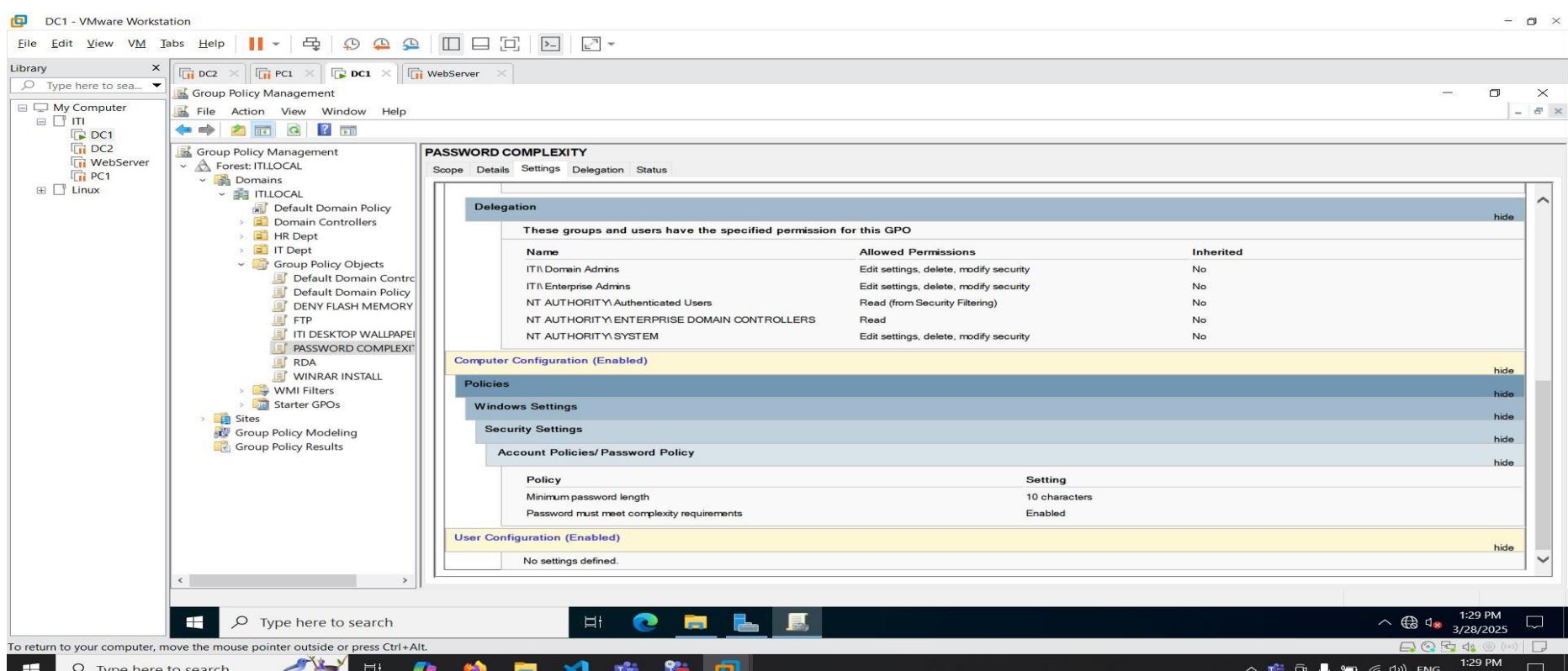
## 4. Creating HR Dept Group Policies

### Setting Desktop Wallpaper to ITI Logo



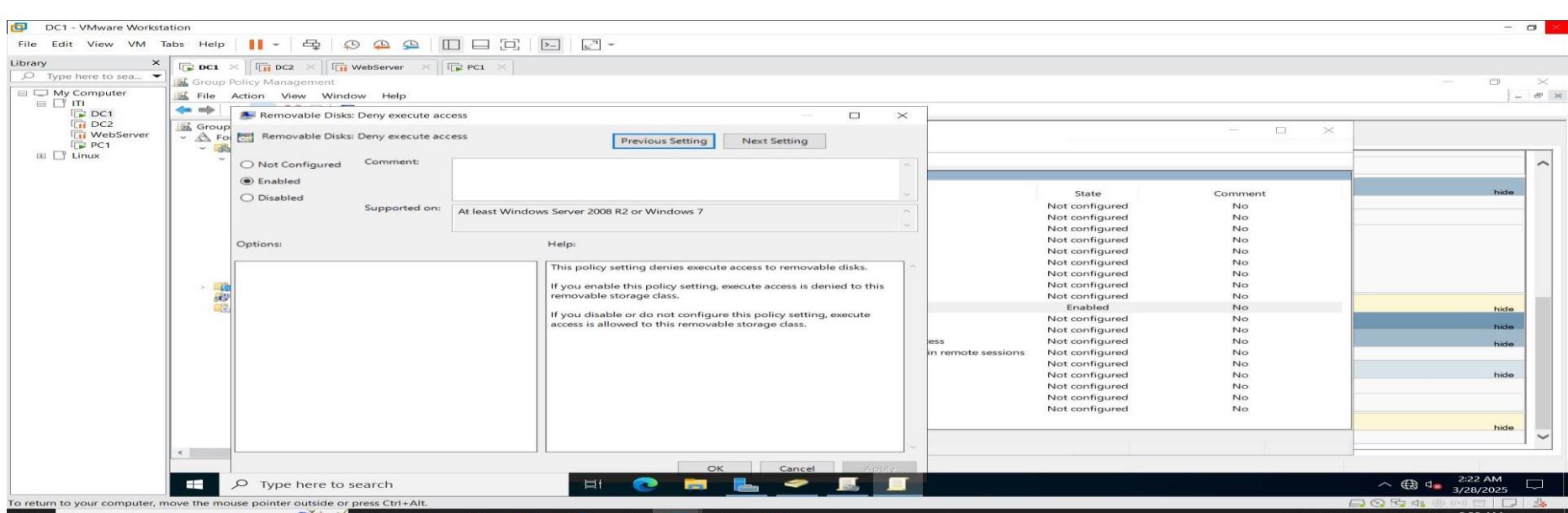
For User's Experience:

### Forcing Password Complexity



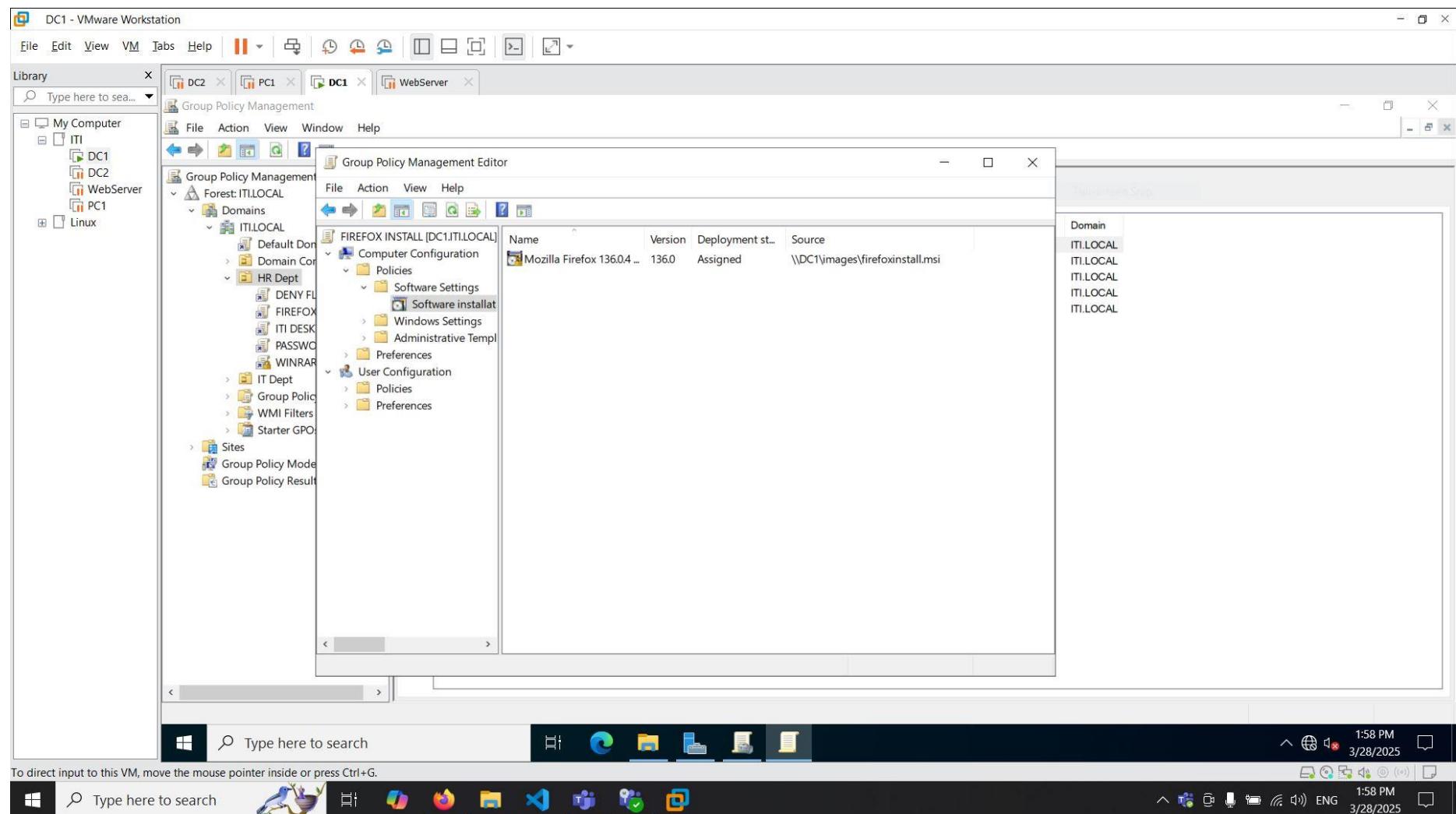
For User's Experience:

### Deny Flash Memory accessing



For User's Experience:

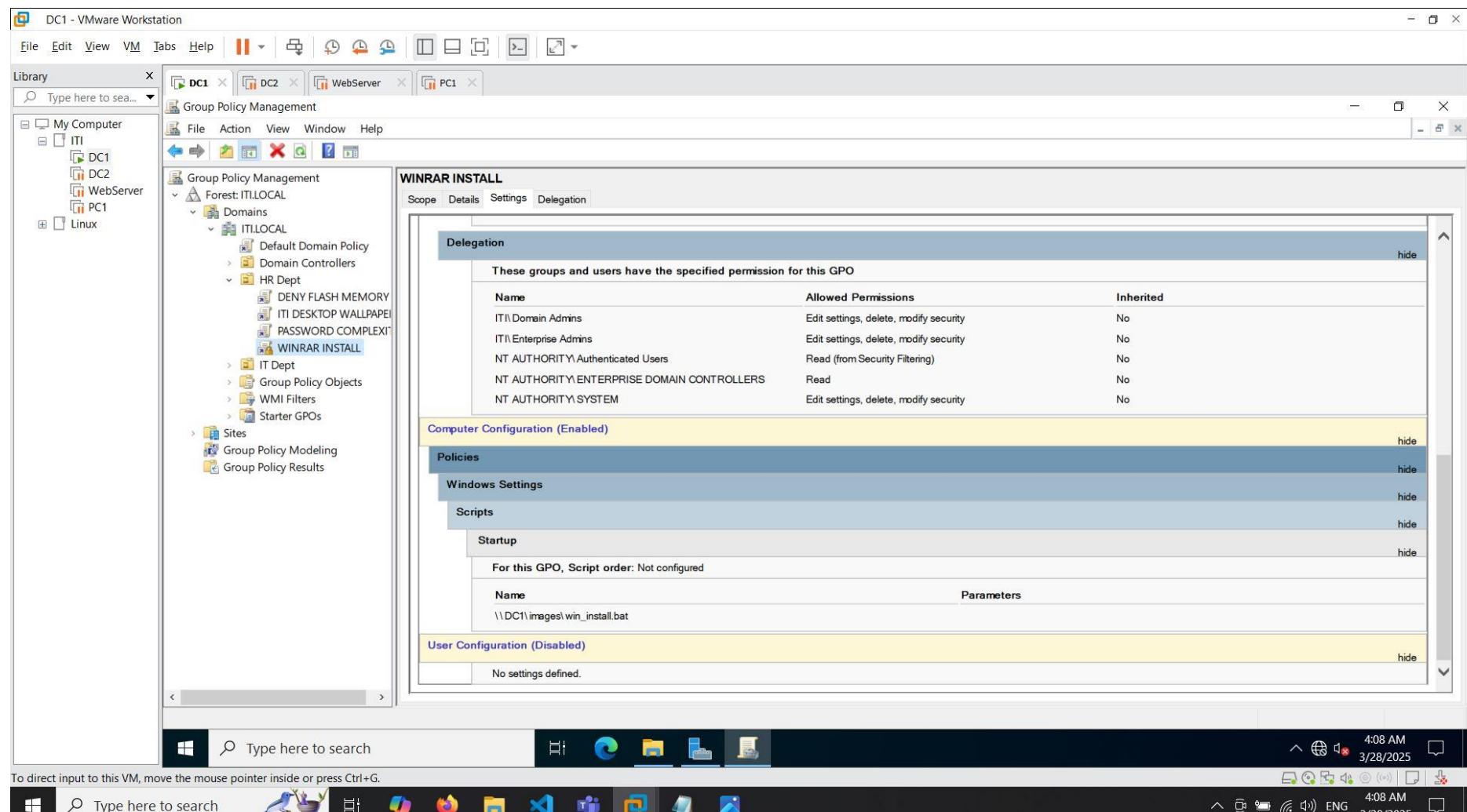
## Installing Software: Firefox



## For User's Experience: ↗

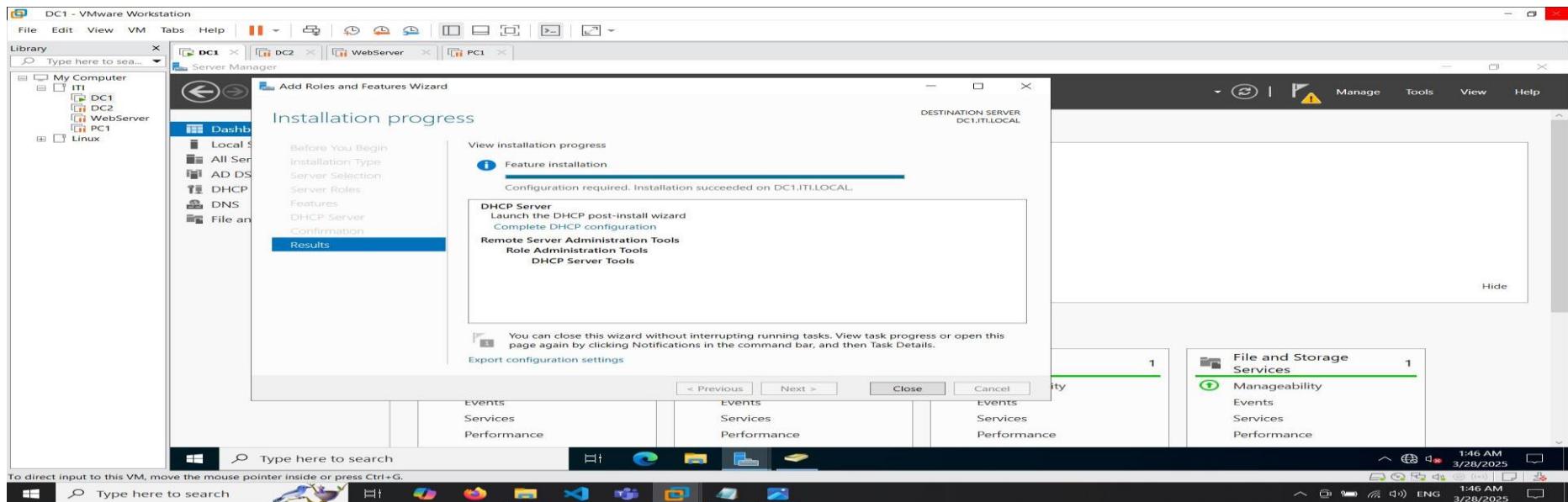
## Installing WinRAR (Bonus)

Since software installation policies only work for .msi packages and I couldn't find one online, I made script file to be ran on startup that contains instructions for installing winrar

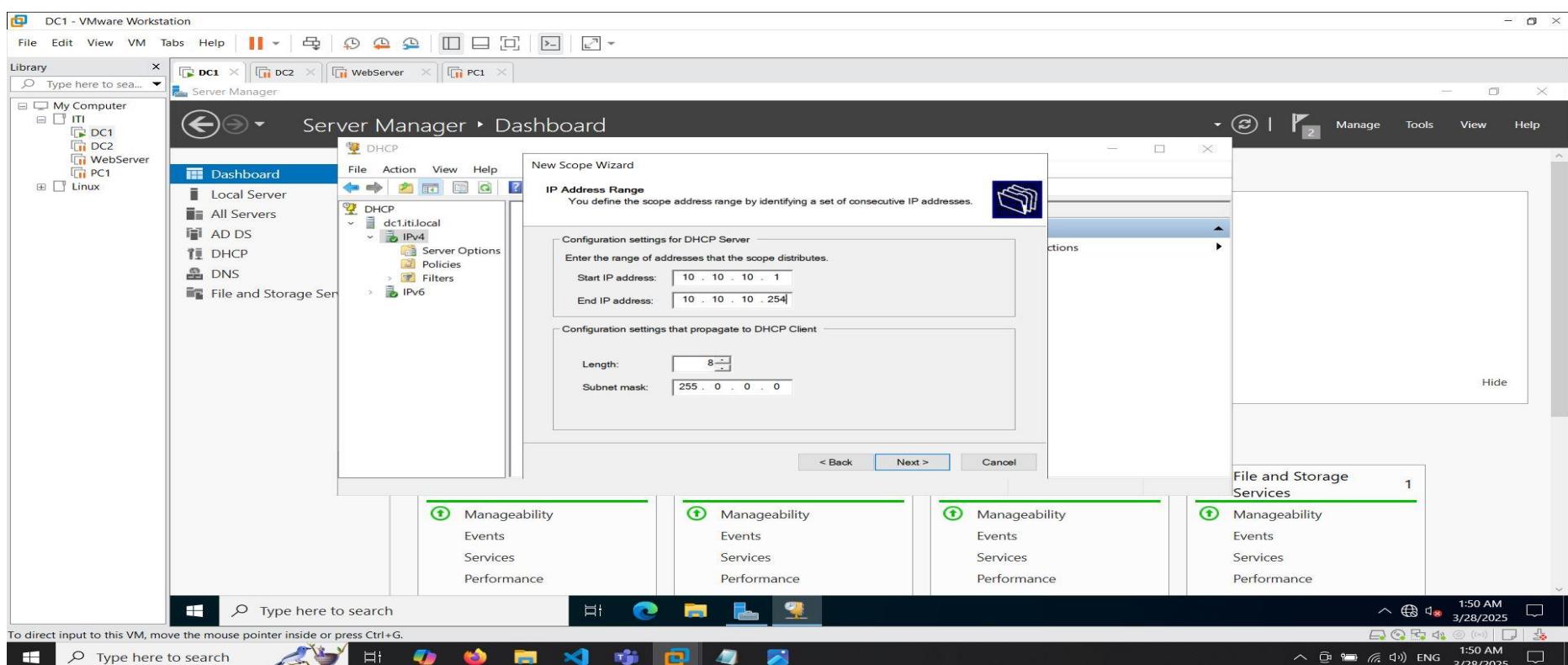


## For User's Experience: ↗

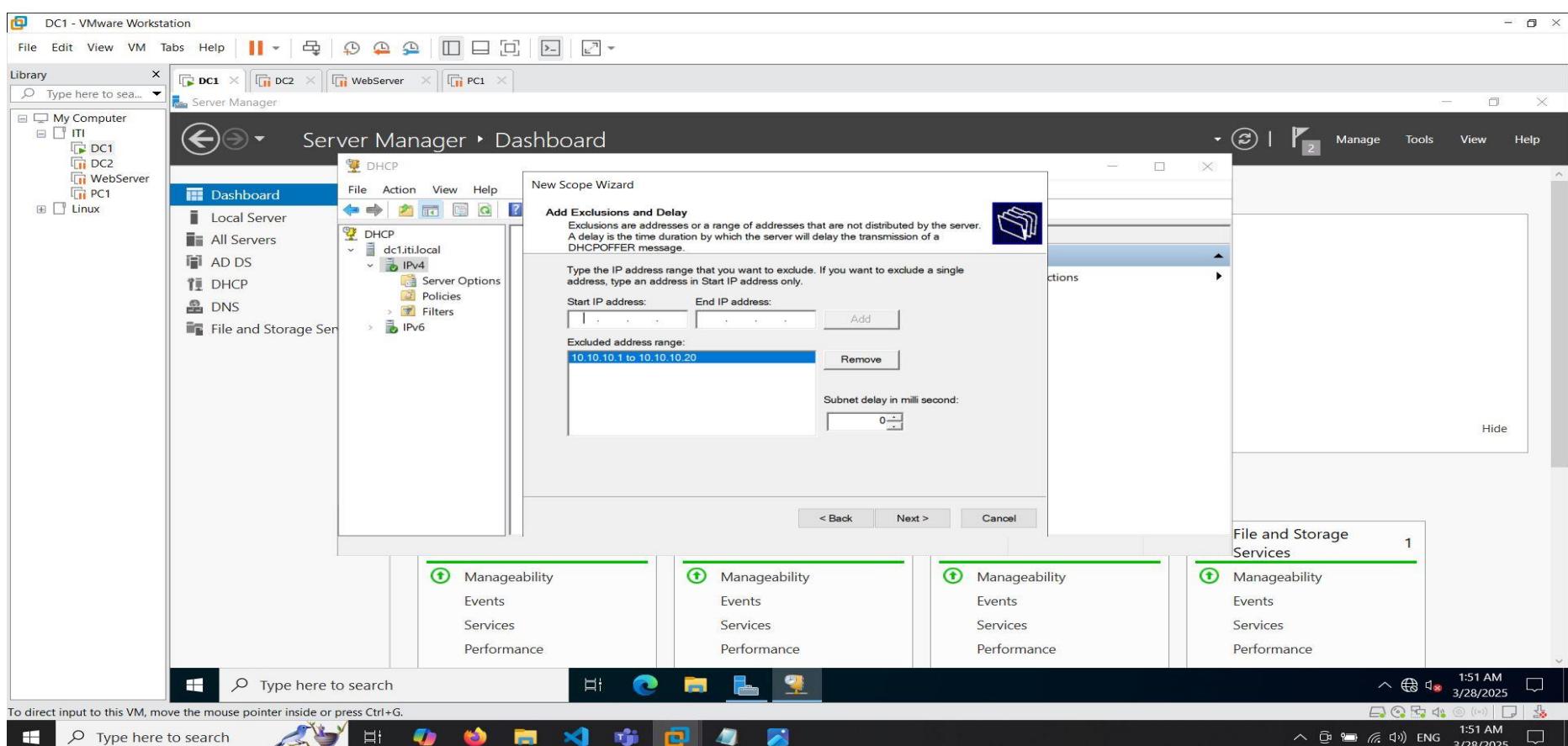
## 5. Installing DHCP Server on DC1



### Creating a new Scope for address pool

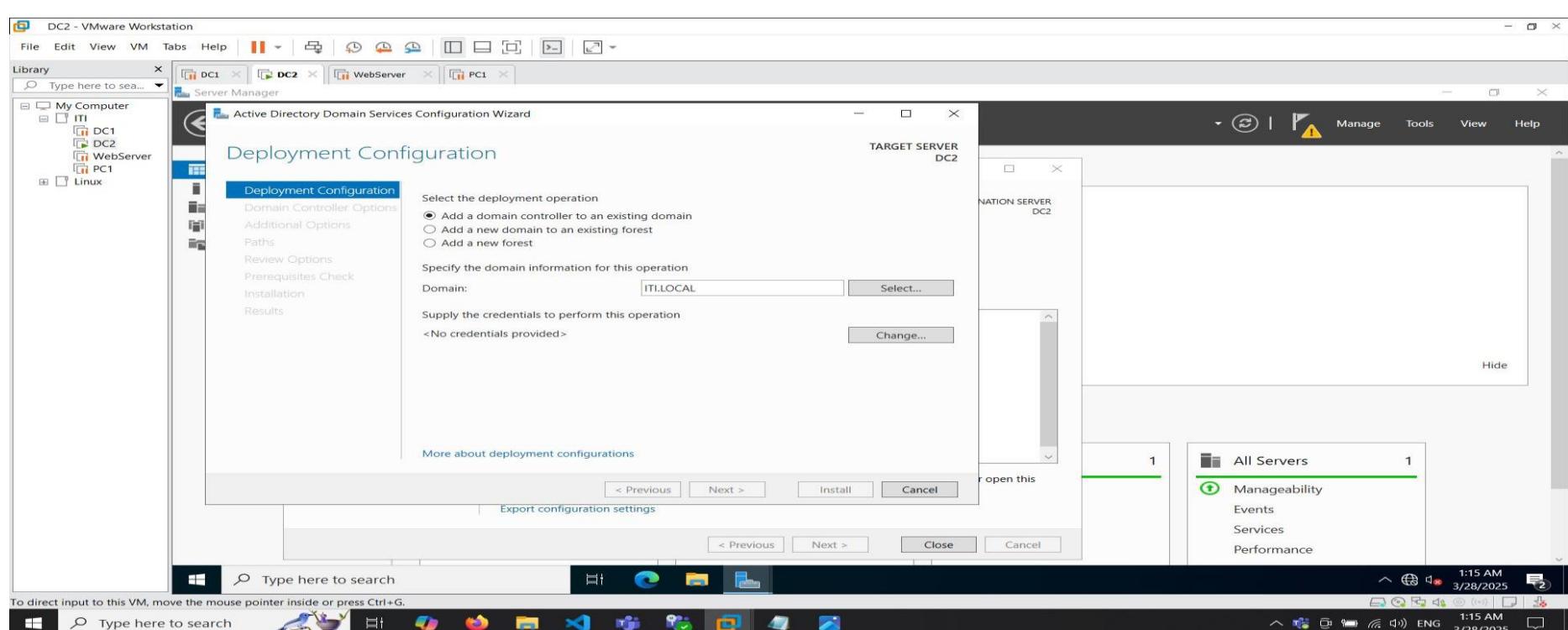
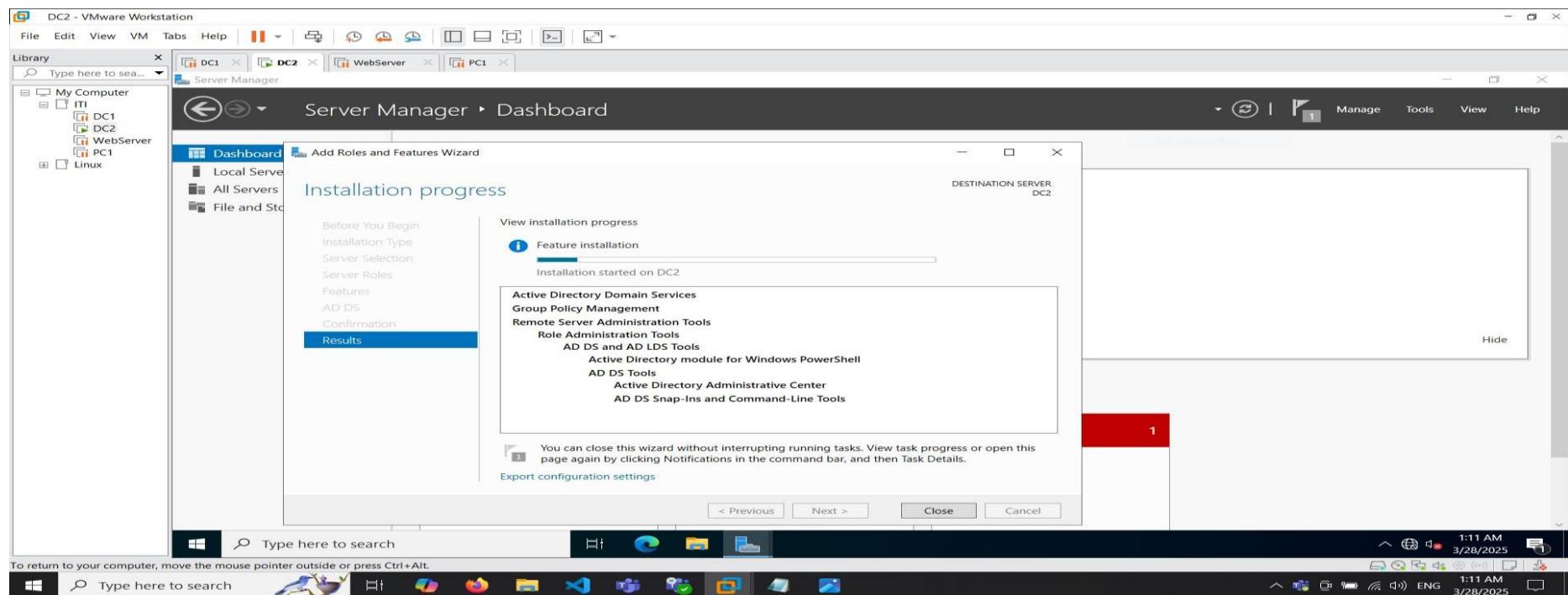


### Excluding address for servers in the network which are configured statically

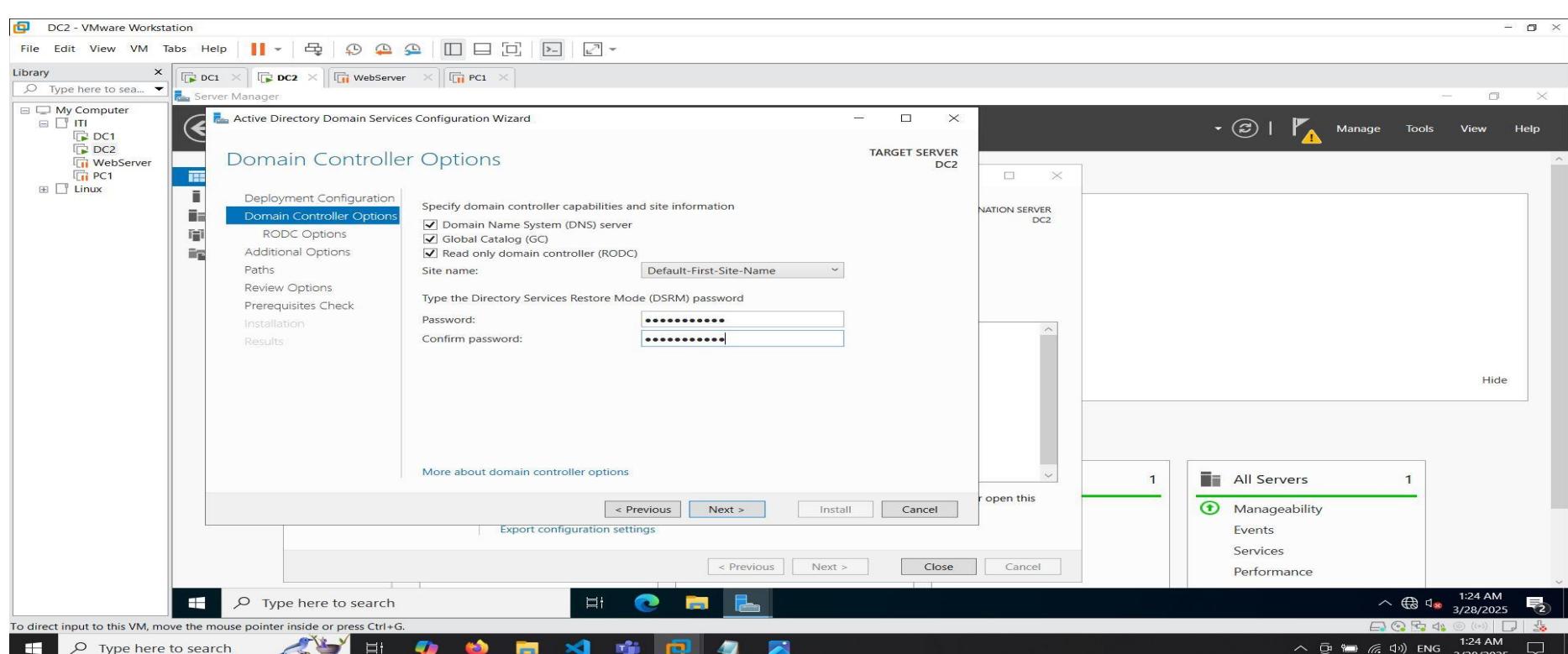


## B. DC2:

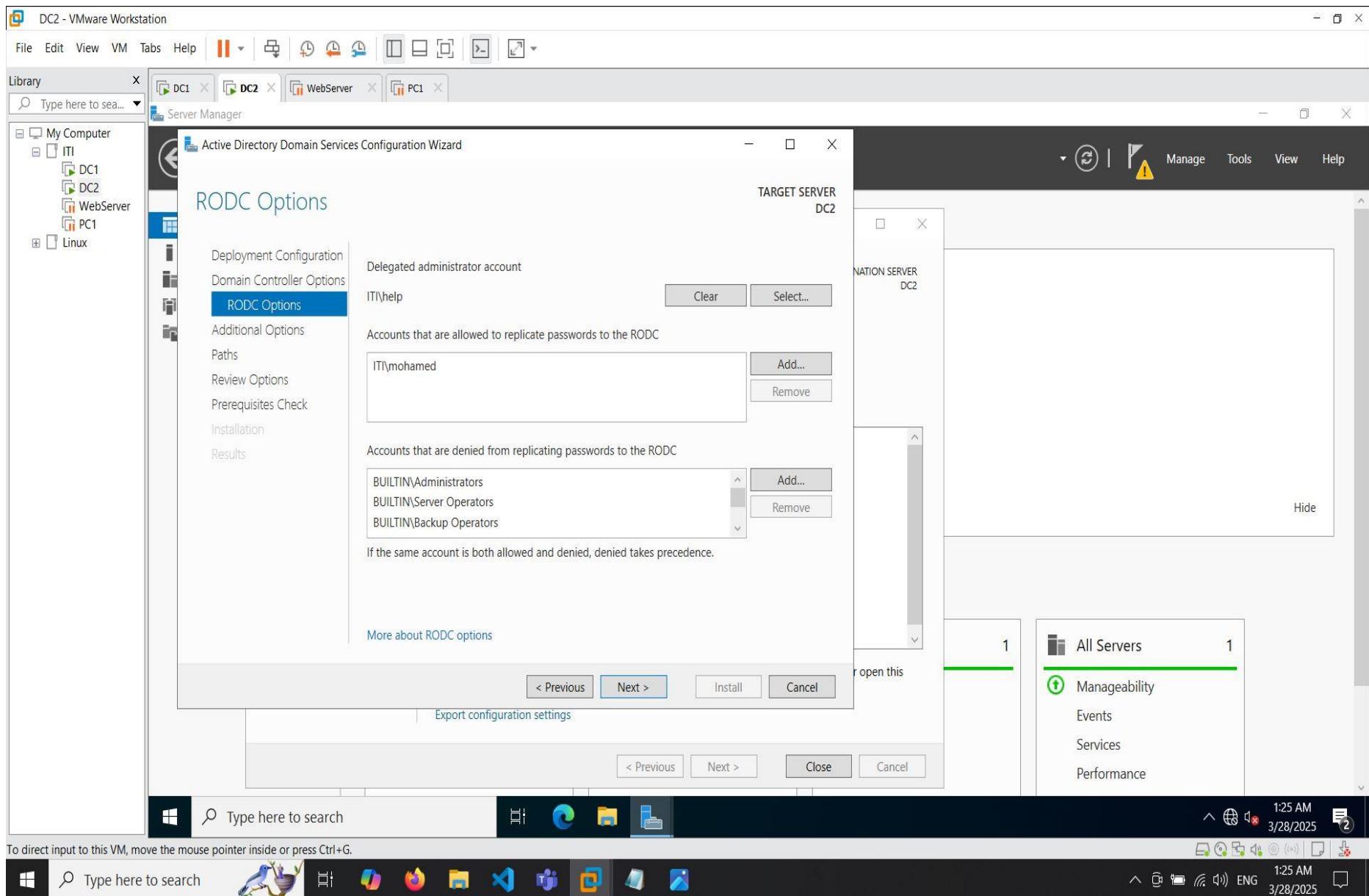
### 1. Creating a win server (DC2) and installing AD DS



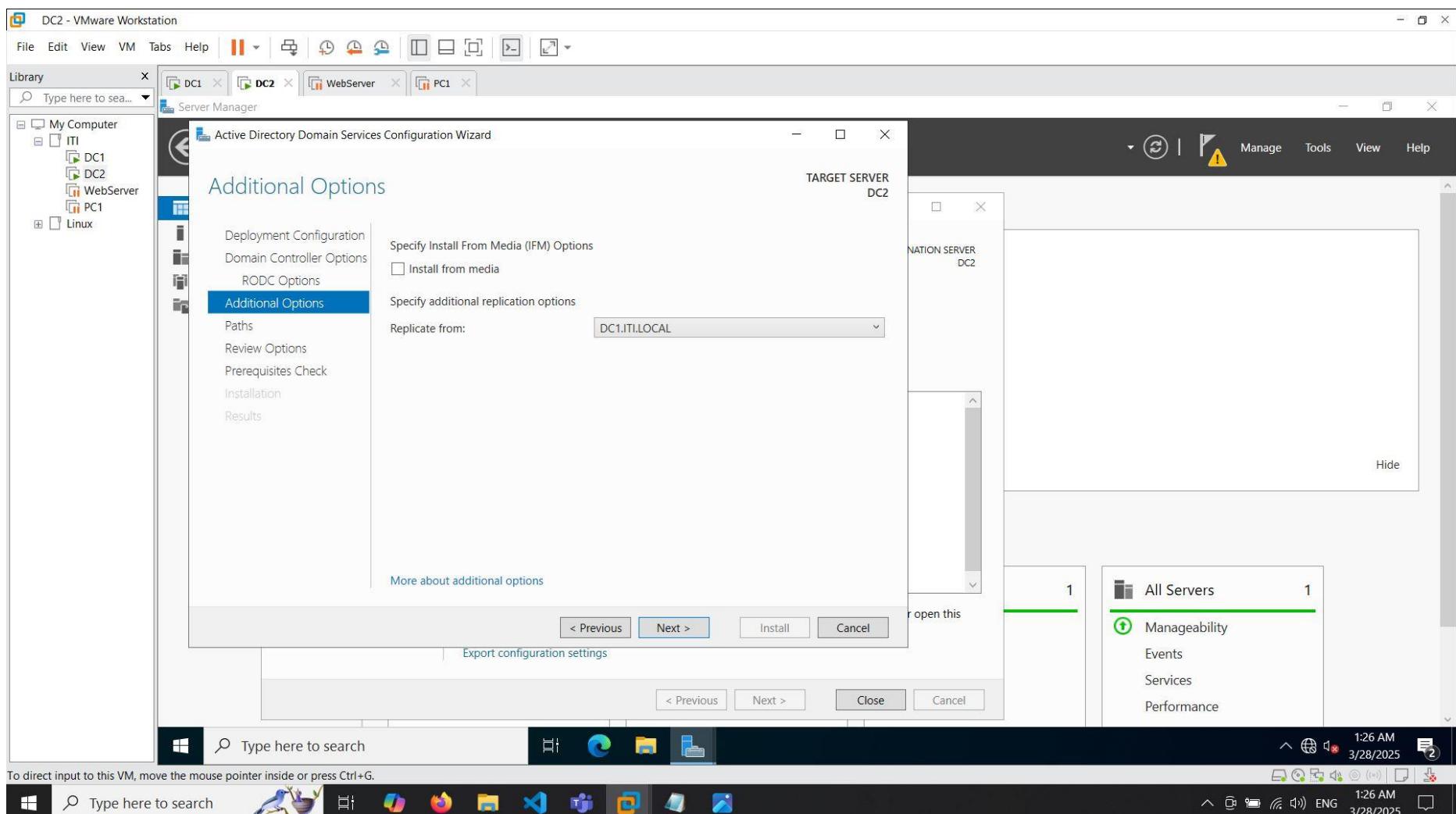
Choosing this DC as RODC to DC1



- We choose the user (help) from DC1 to be our delegated administrator
- We only allow the user (mohamed) password to be replicated in RODC

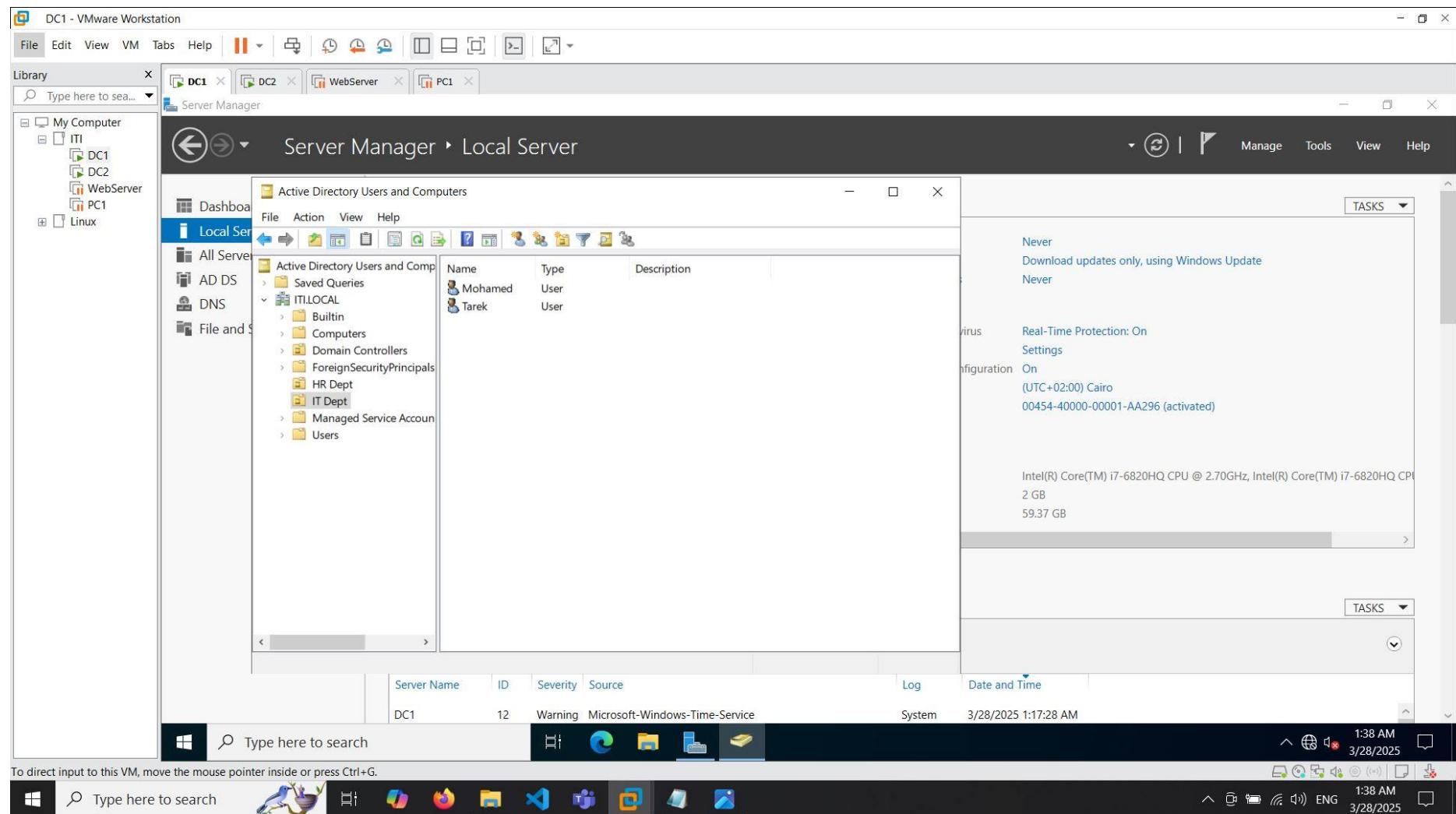


The RODC will replicate its data from DC1

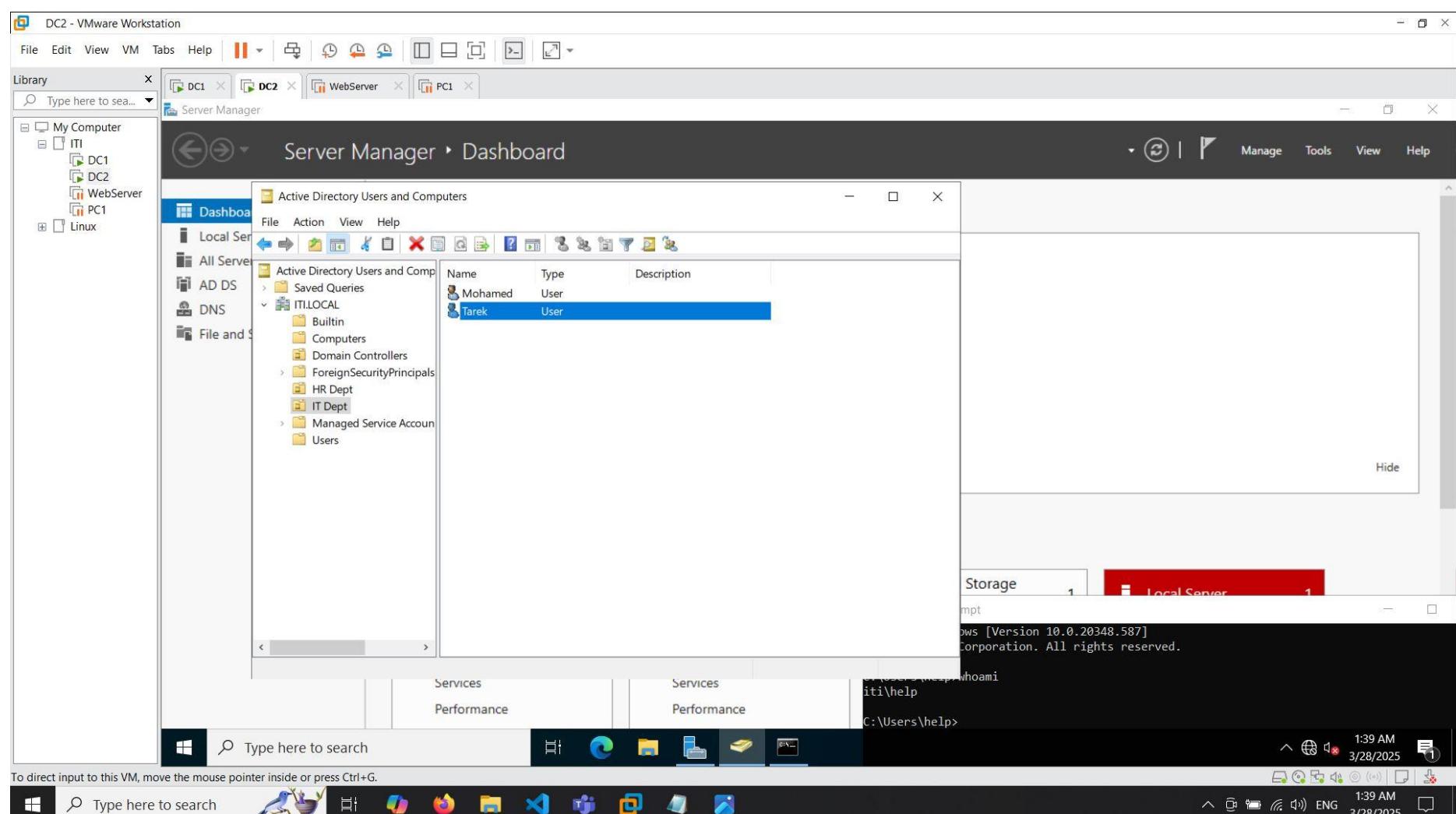


## 2. Check Replicate

From the Main DC (DC1) we create a user (Tarek) in IT Dept

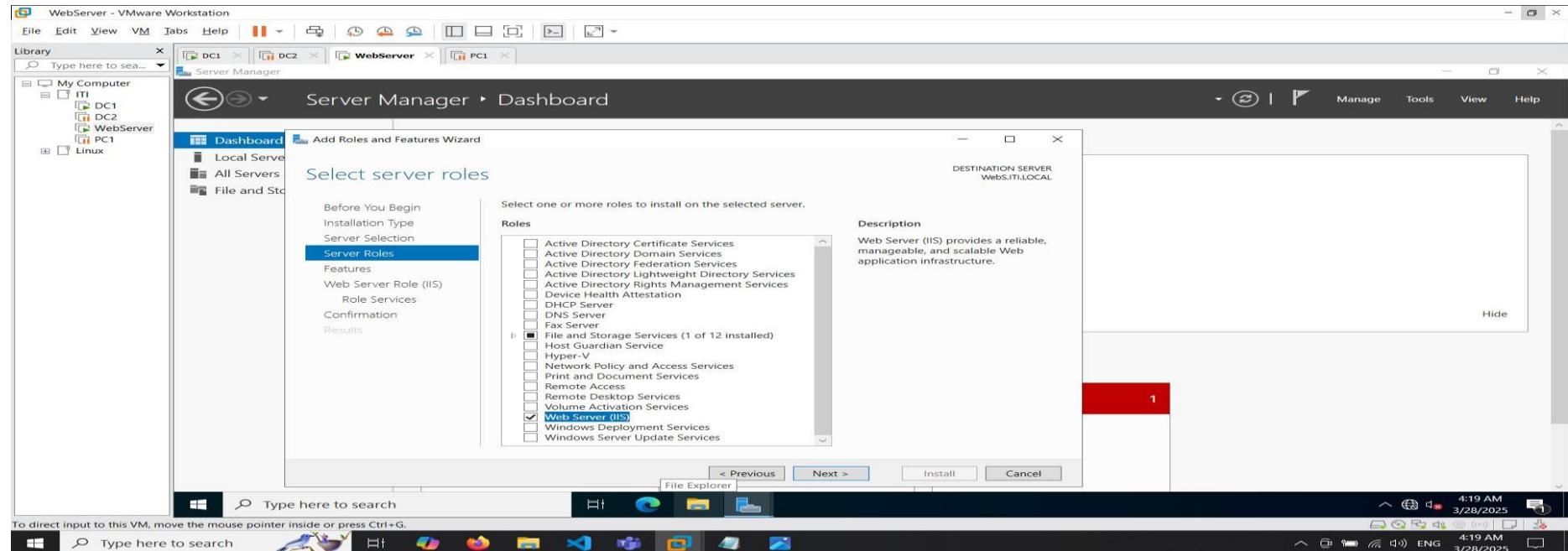


We use the delegated admin (help) to login the RODC and check if the data between DC1 and RODC has been synchronized successfully

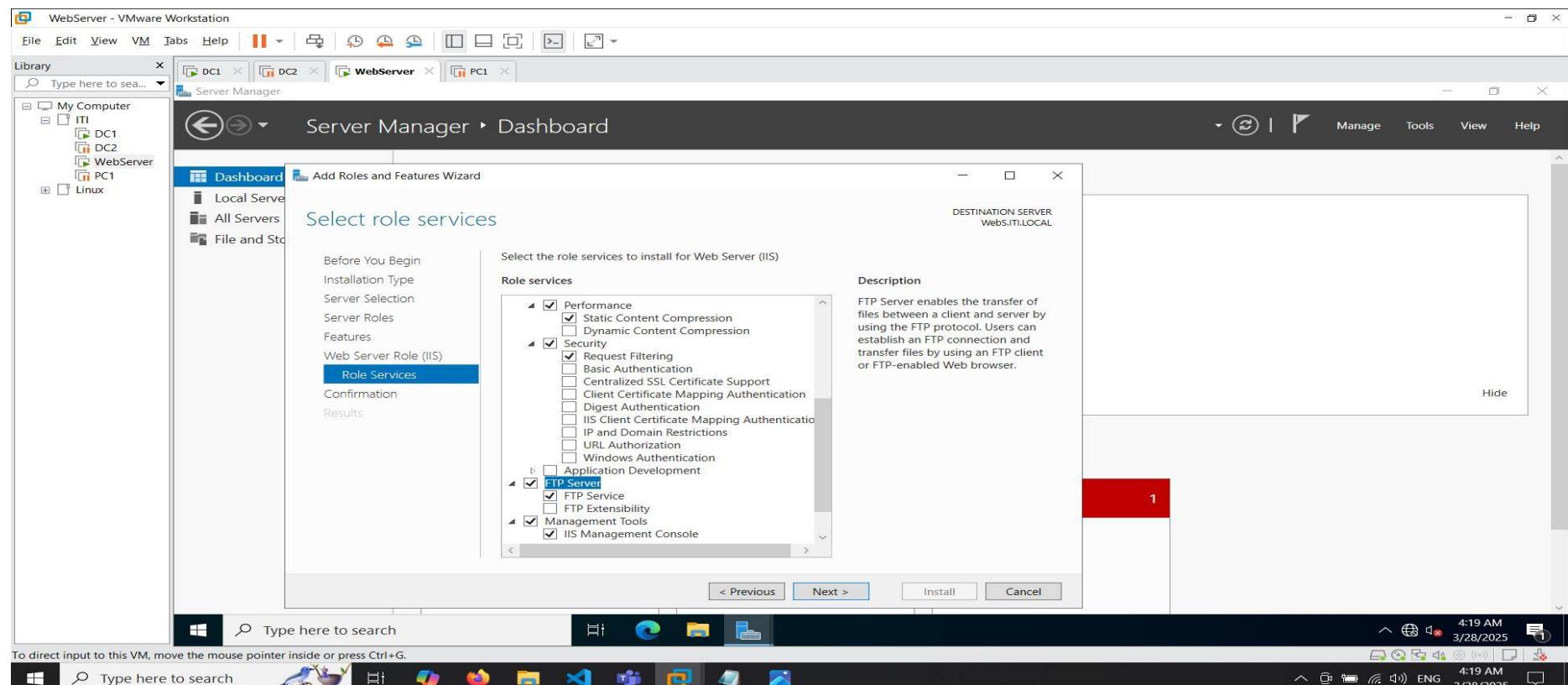


## C. Web Server:

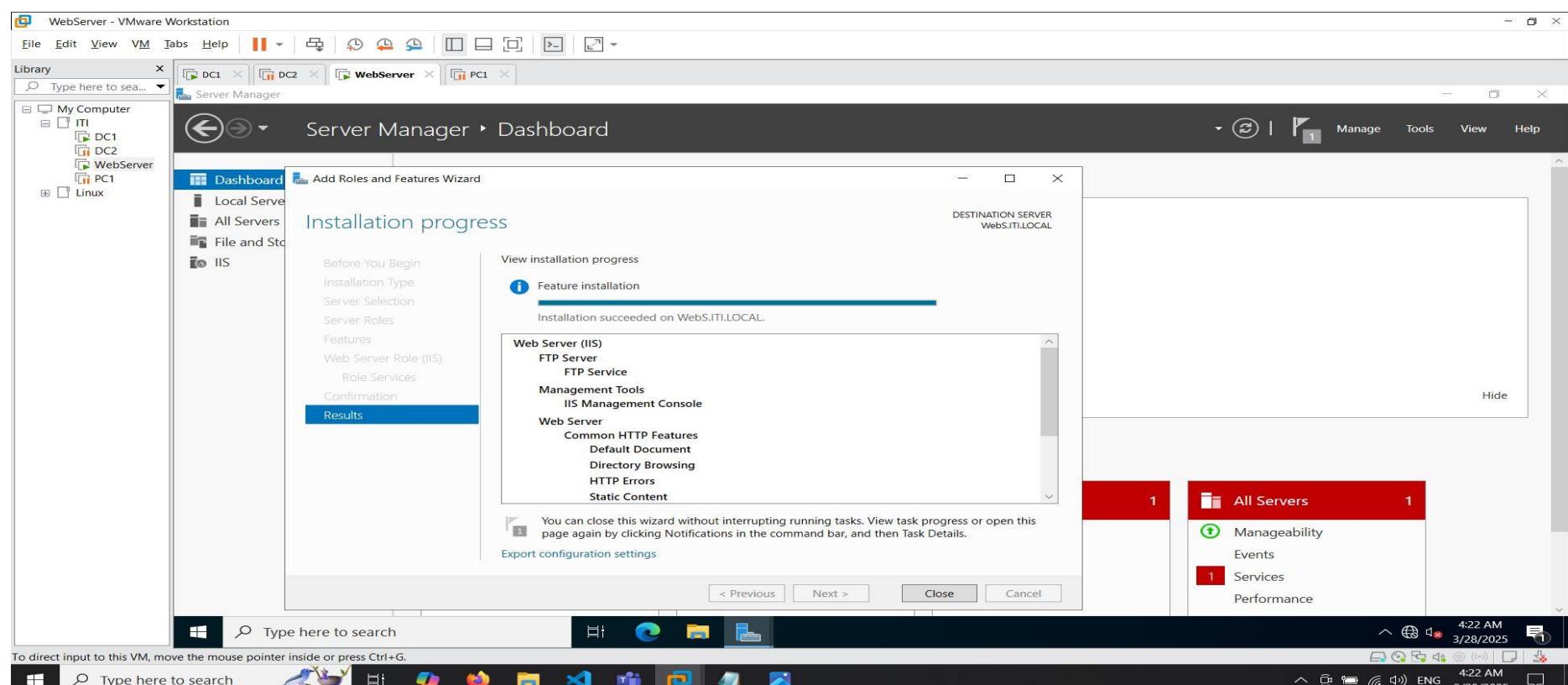
### 1. Creating a win server (WebServer) and installing IIS



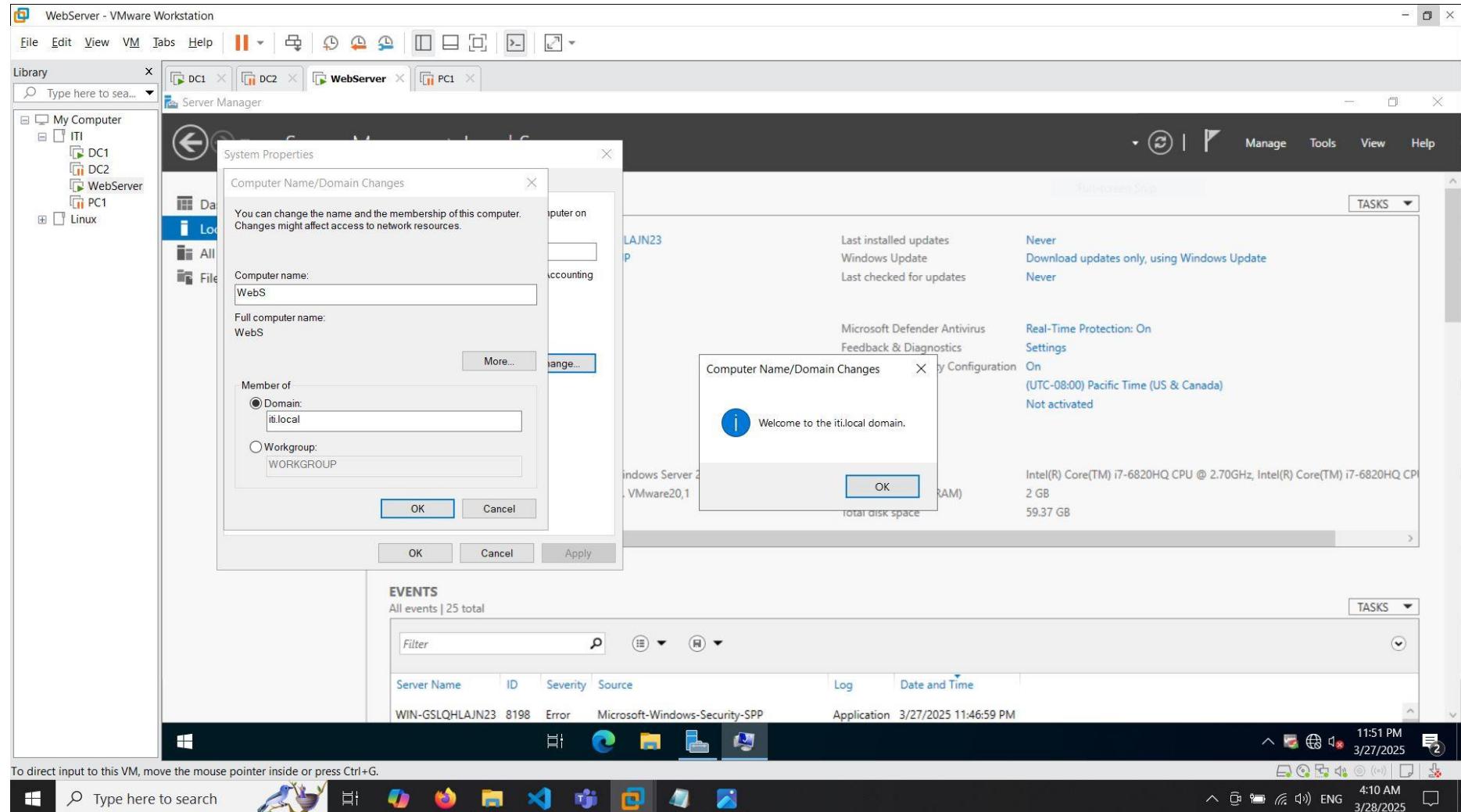
Enabling FTP services for later use and Management Tools > Management Service for remote desktop management



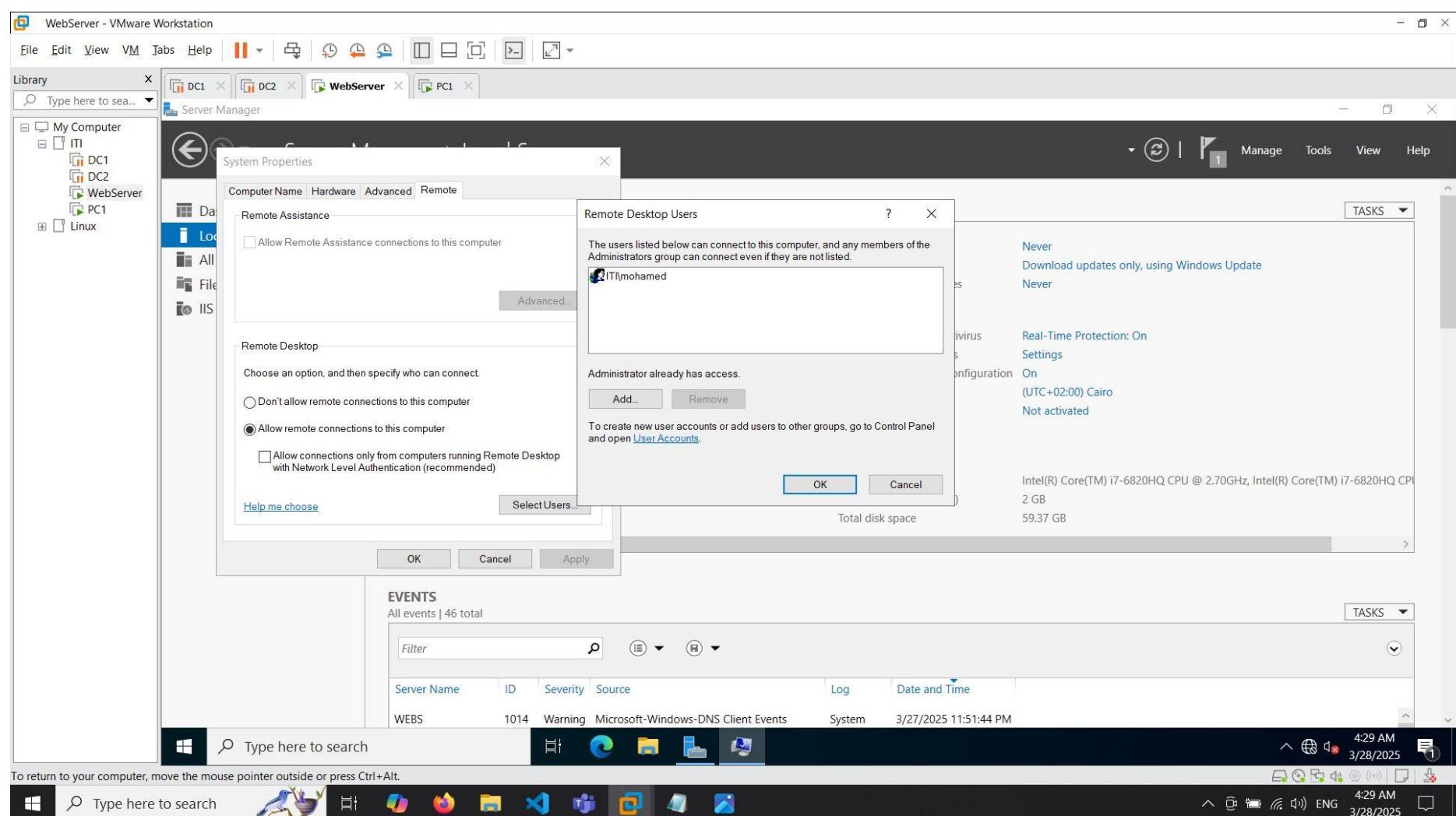
IIS installed successfully



## 2. Adding the WebServer to Domain IT.LOCAL on DC1



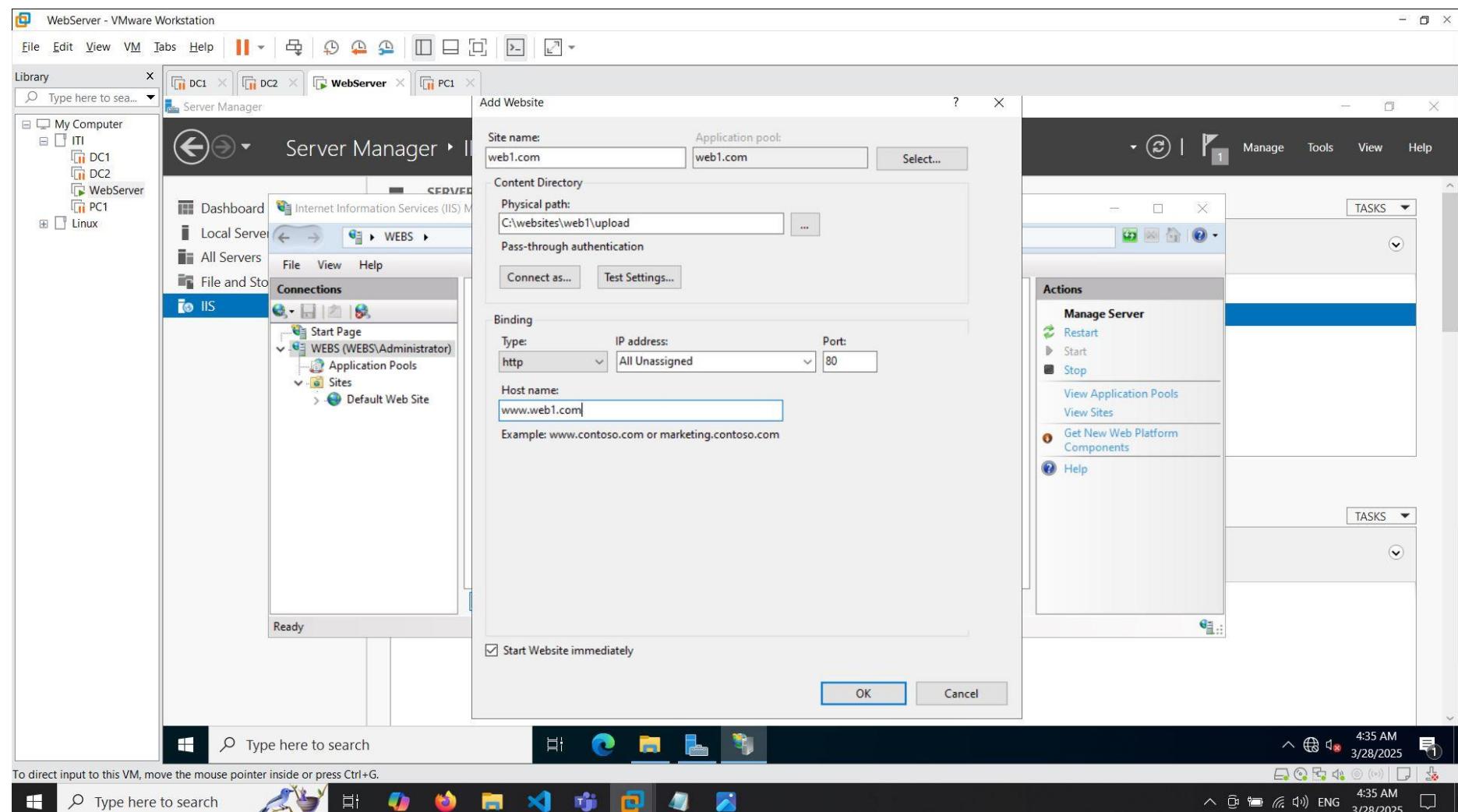
Enabling only the user (mohamed) to remote access the server



For User's Experience: ↗

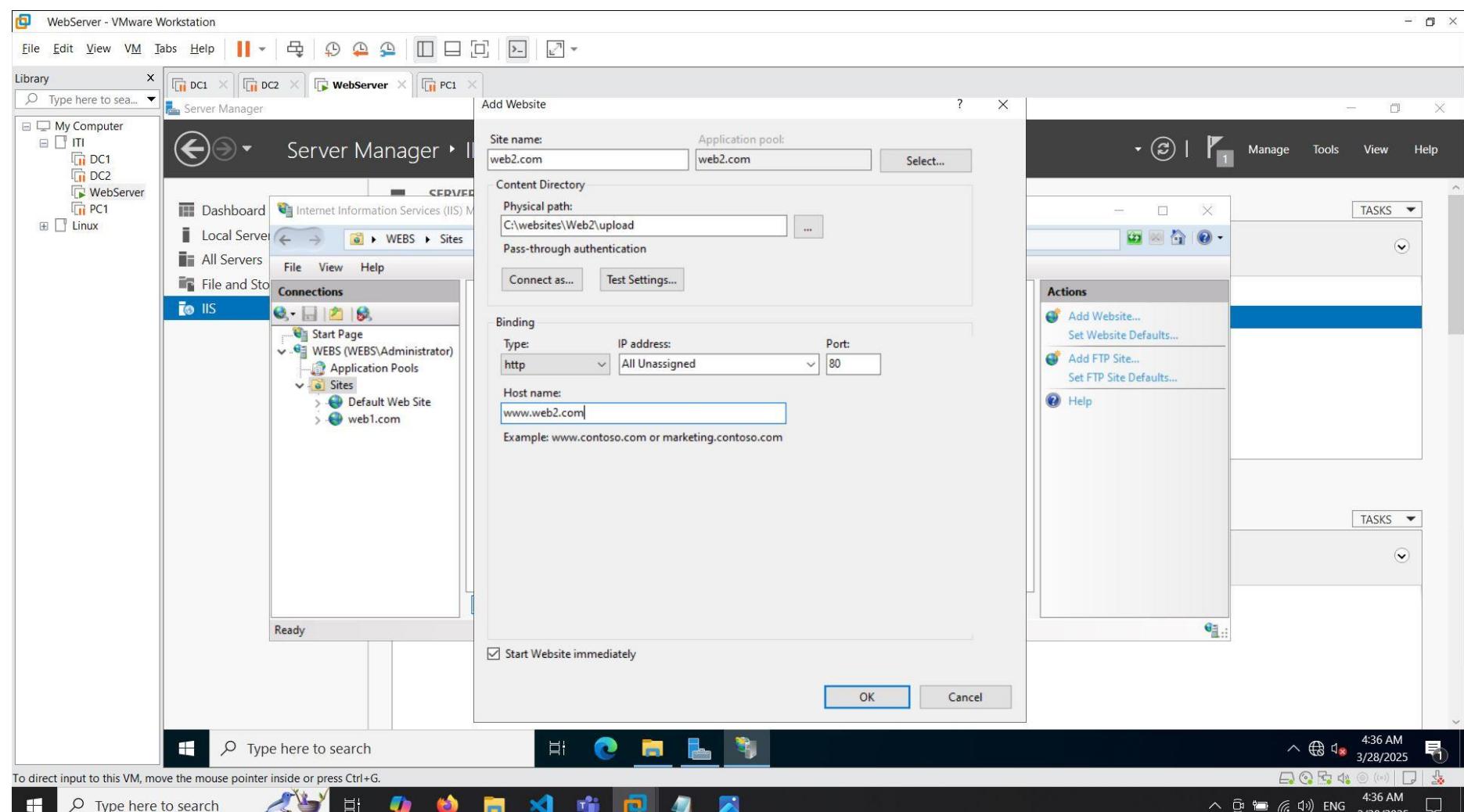
### 3. Creating Websites

#### Creating web1.com



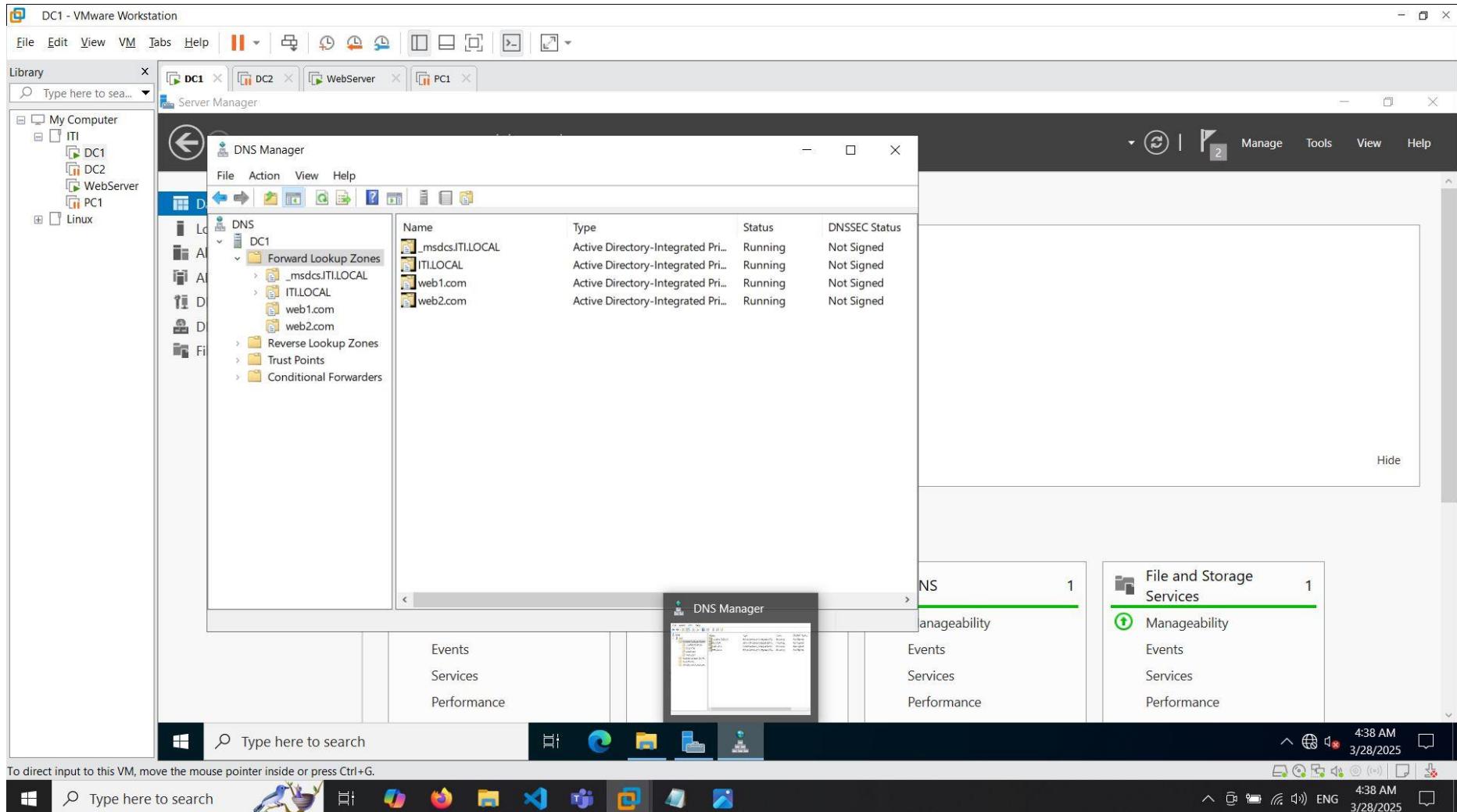
For User's Experience: ↗

#### Creating Web2.com

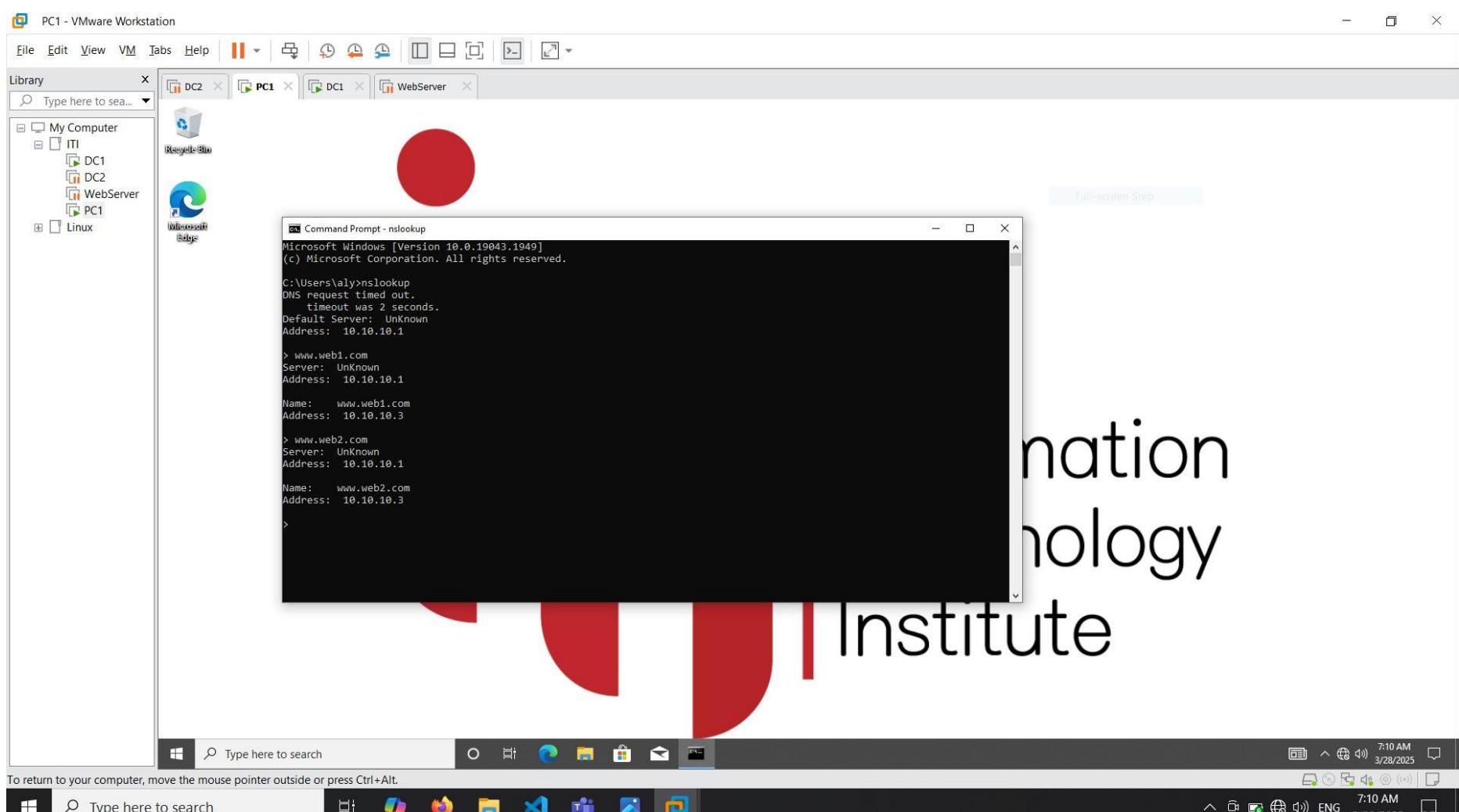


For User's Experience: ↗

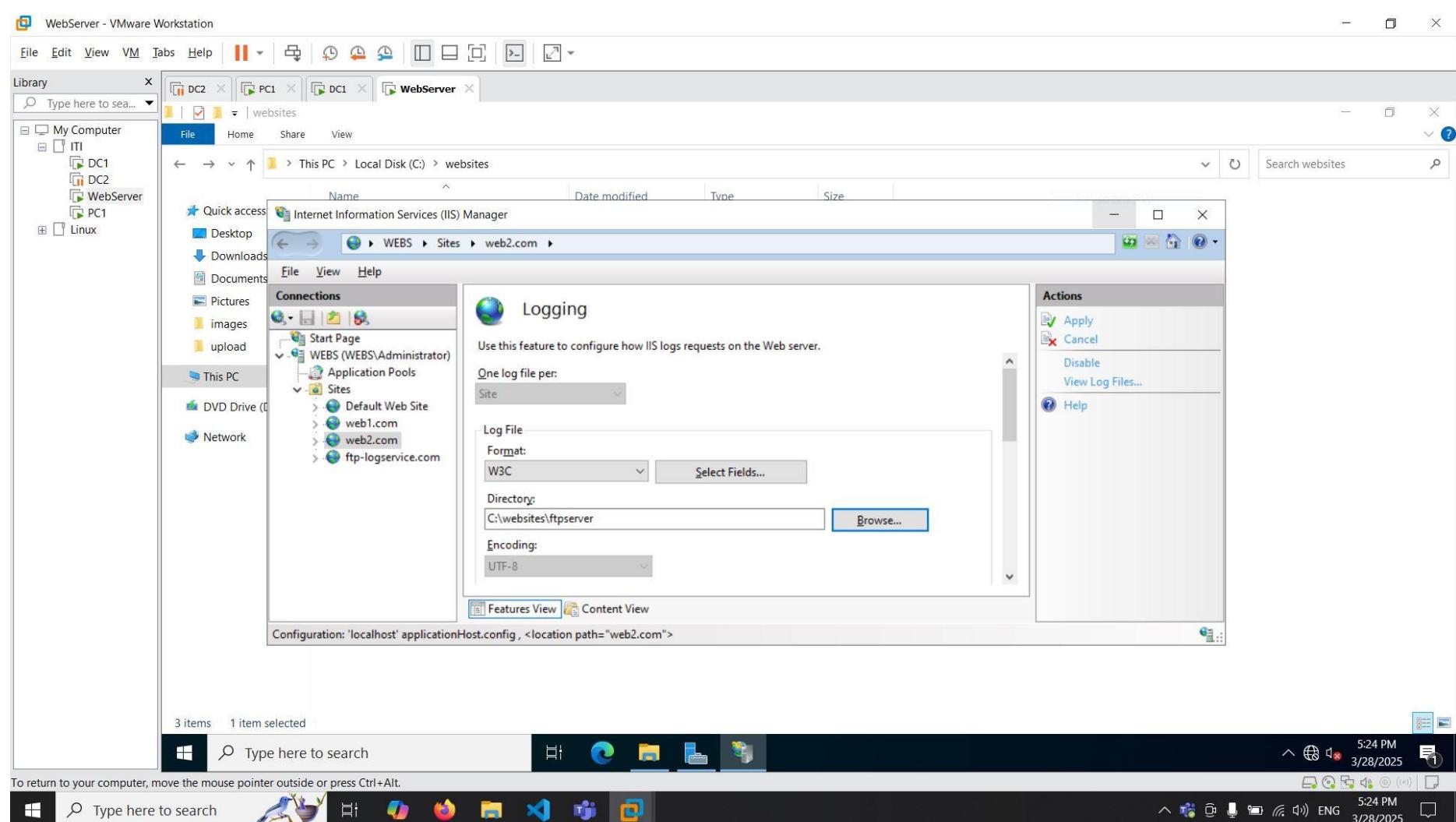
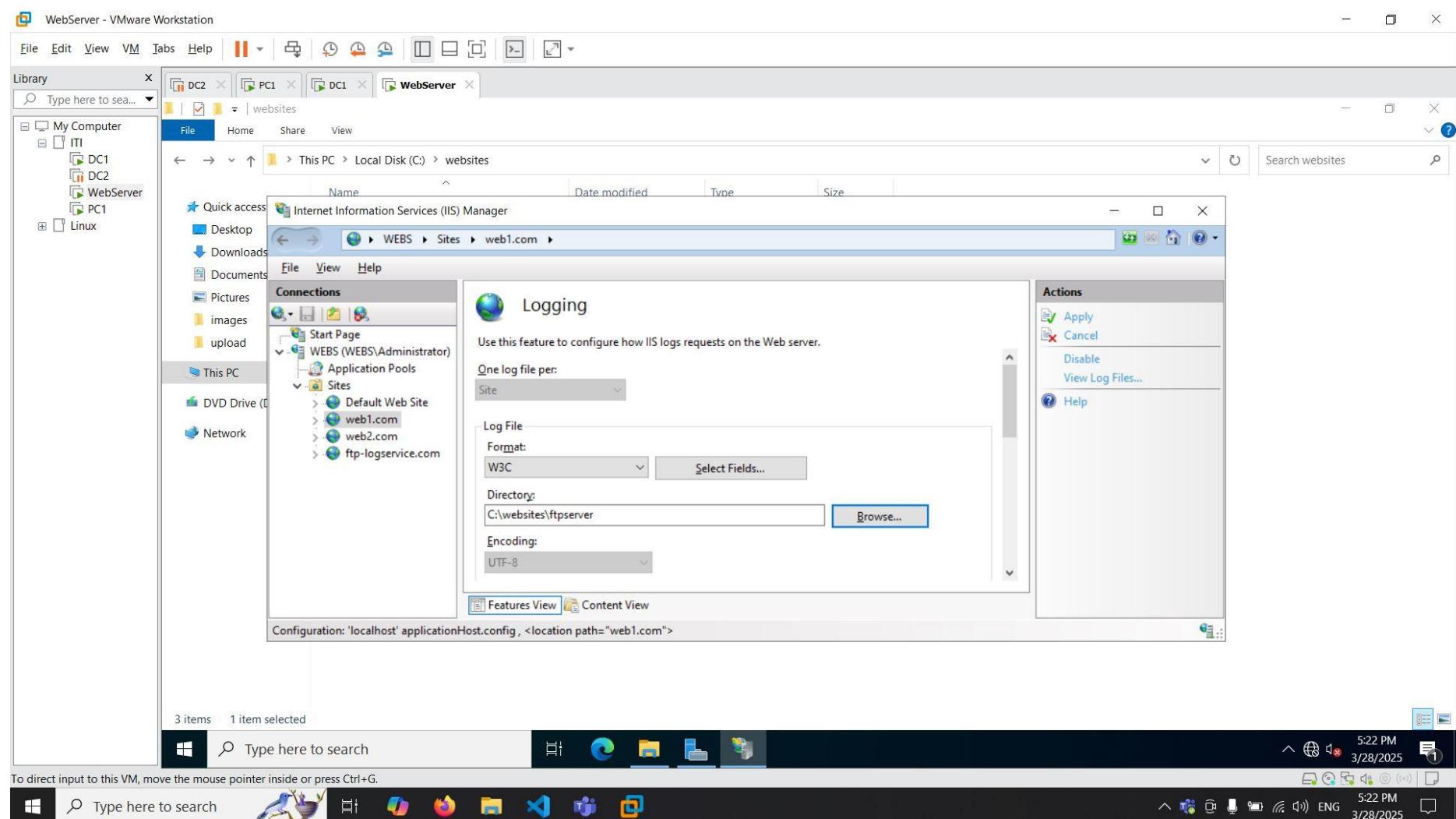
## 4. Creating DNS Zones for the Websites on DC1 DNS Server



HR Dept Users can connect to web1/web2 authoritative

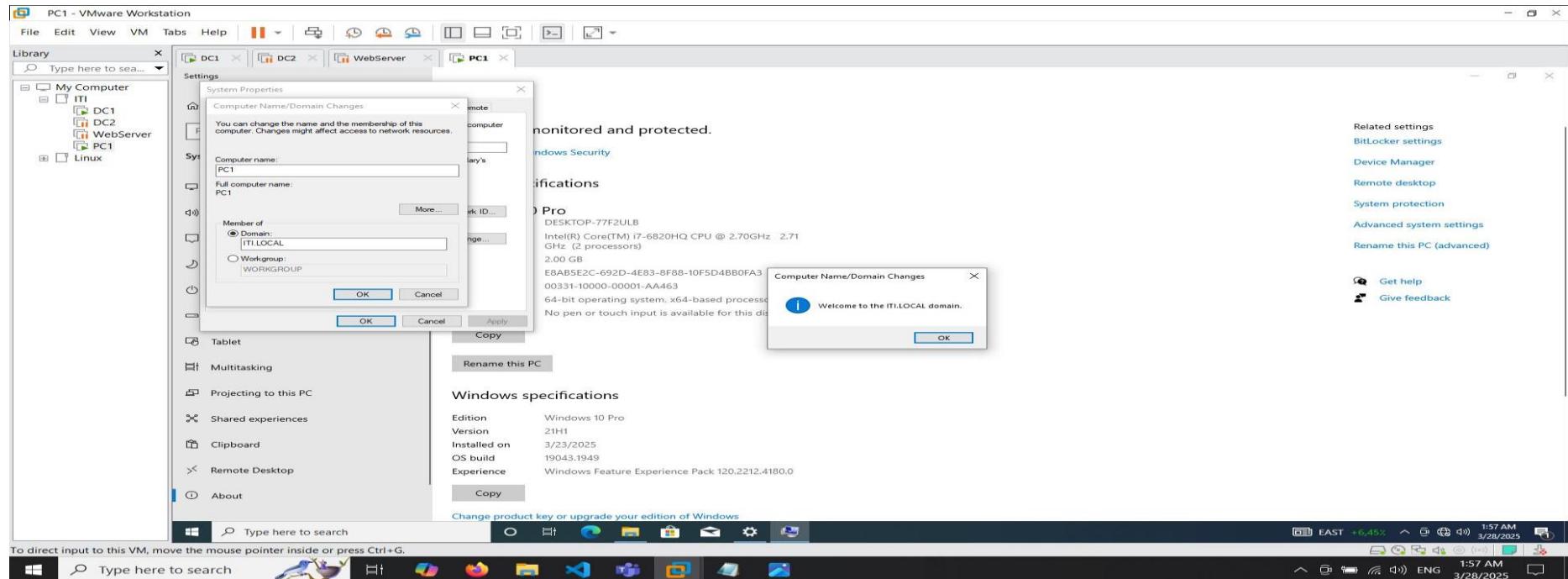


## 5. Creating an FTP Server and linking with web1.com and web2.com logging

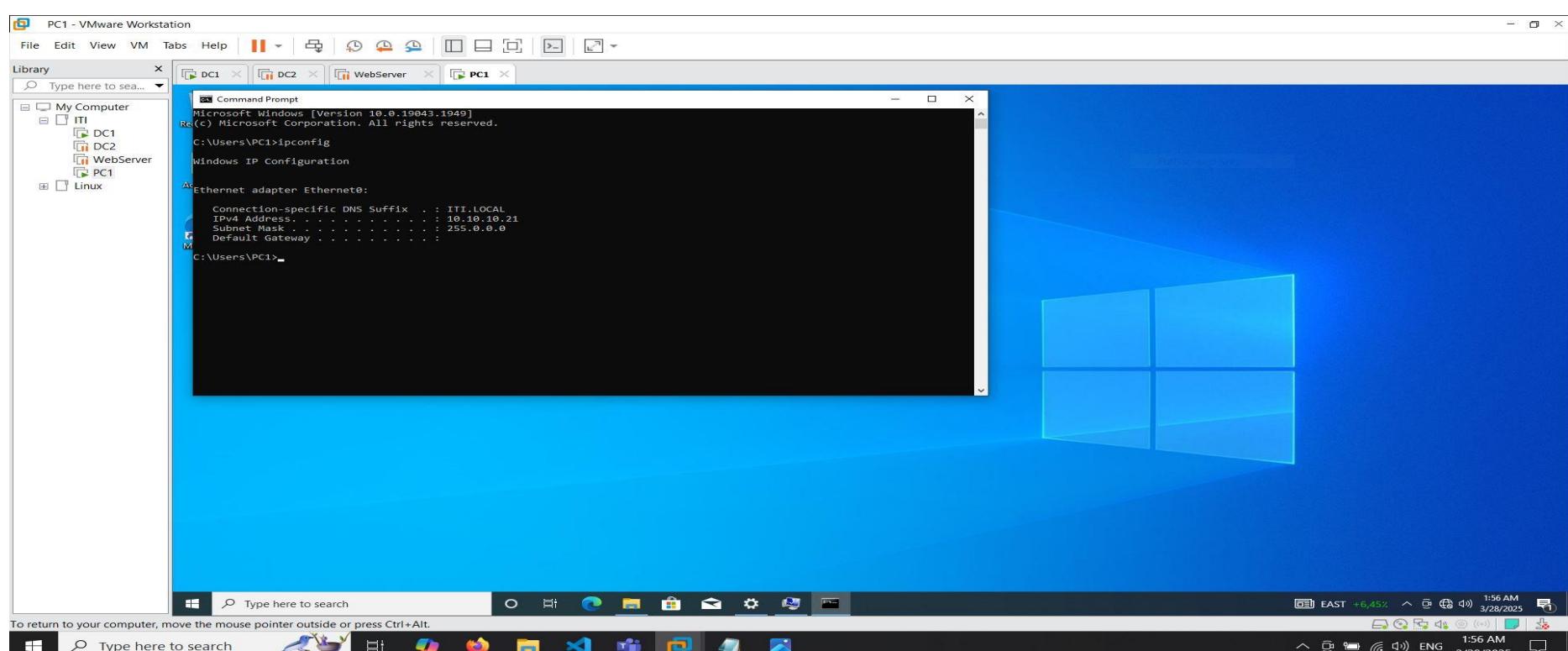
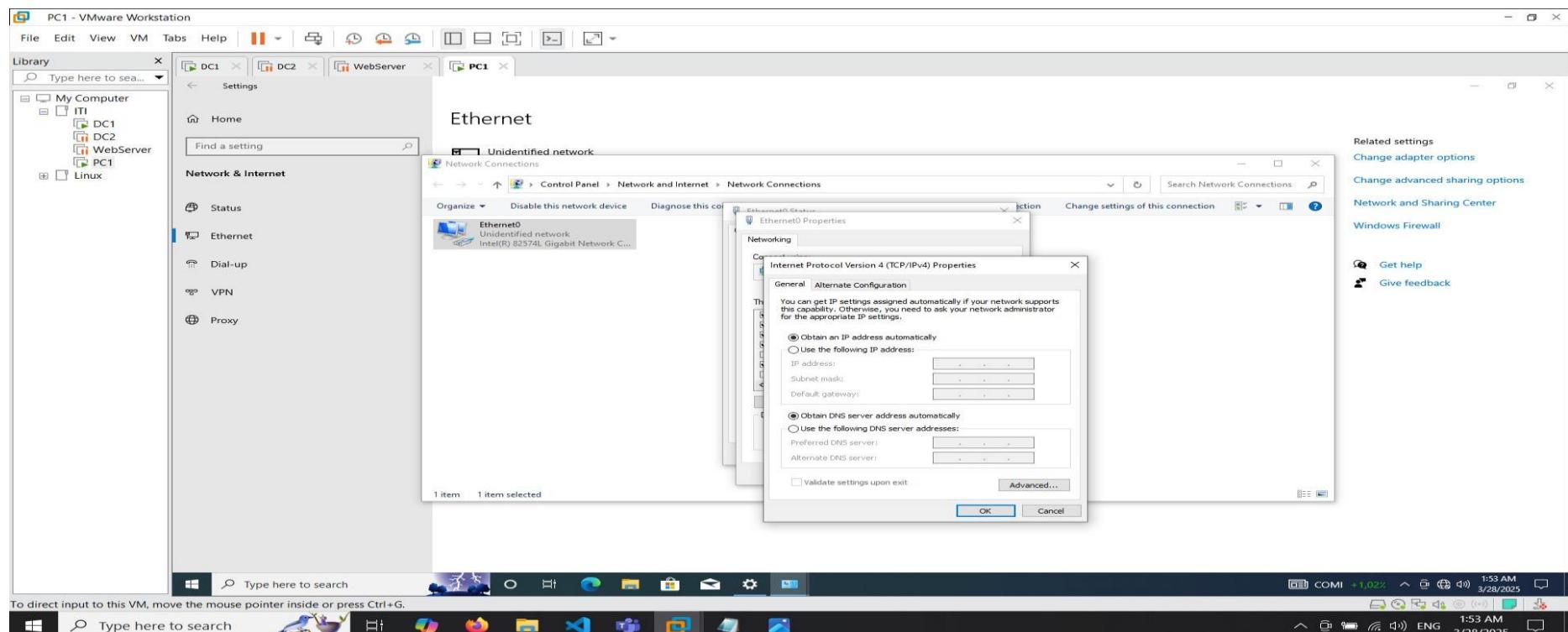


## D. PC1:

### 1. Adding PC to DC1 ITI.LOCAL



### 2. Assigning Network Configuration dynamically using DHCP server on DC1

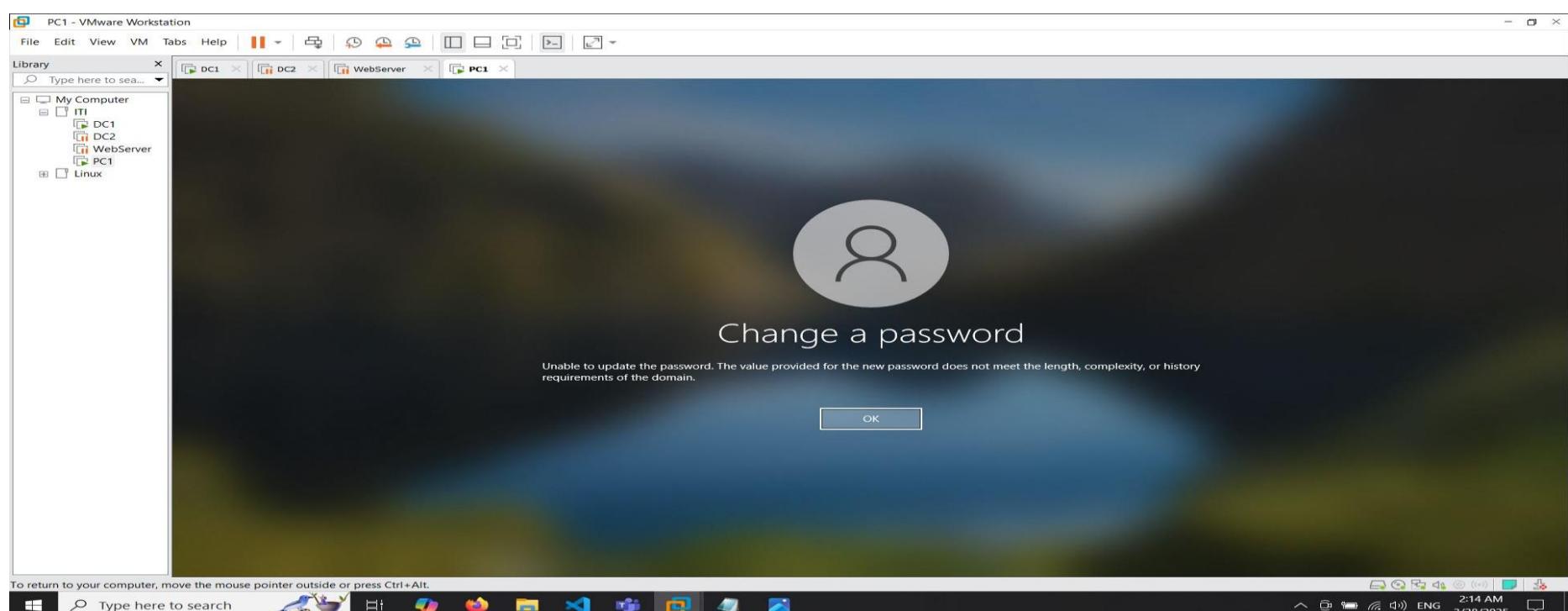


### 3. Logging in as HR Dept user to verify group policies

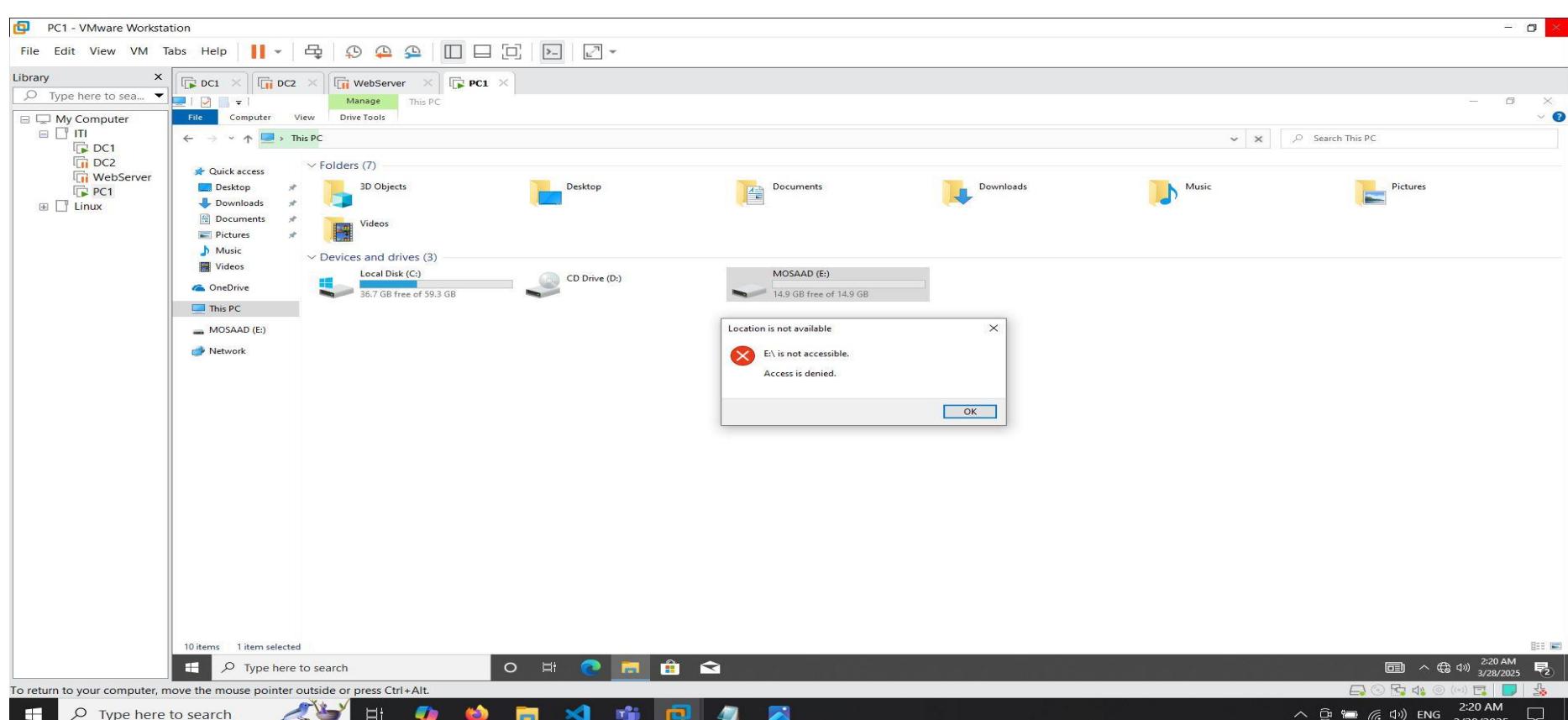
#### ITI Desktop Wallpaper



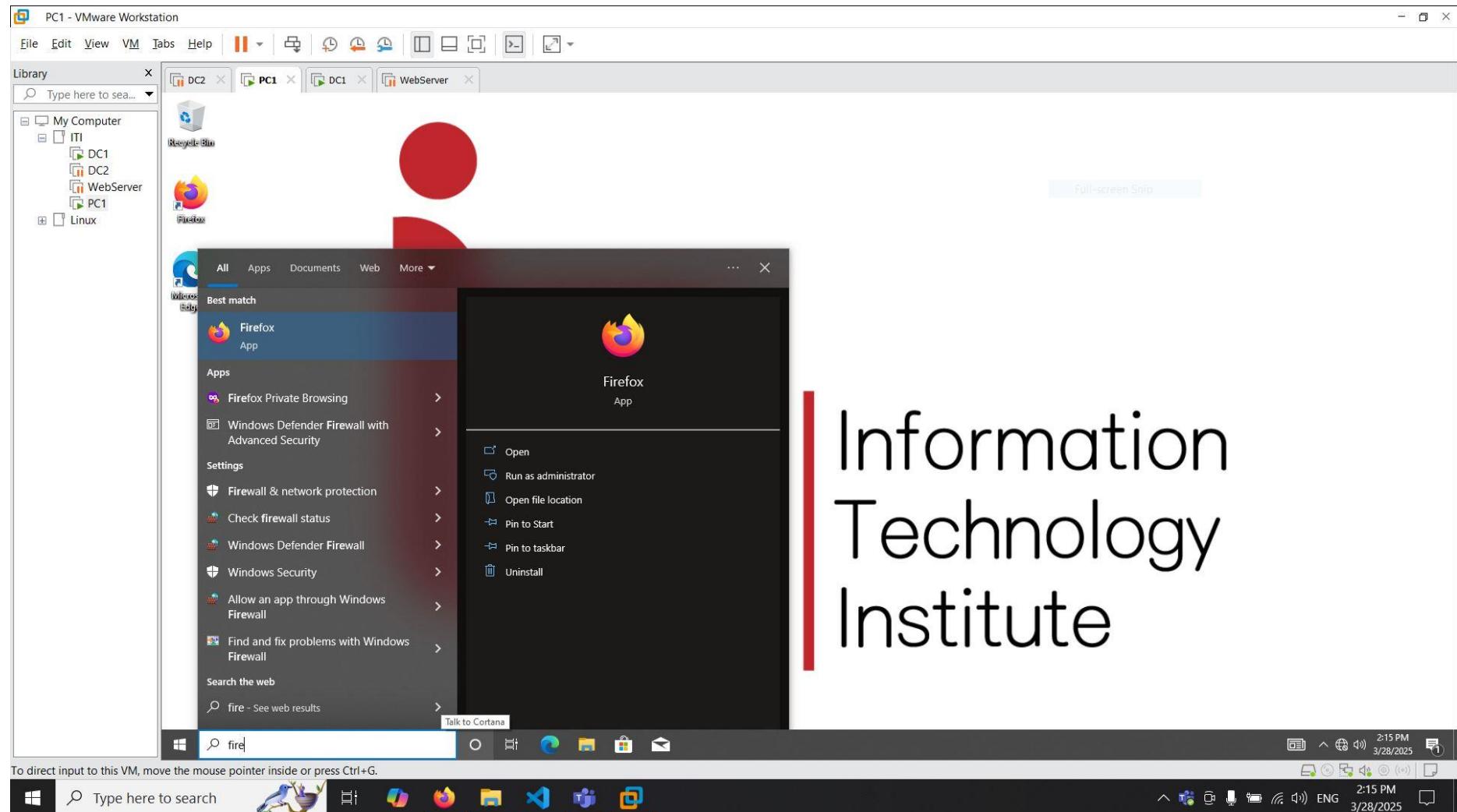
#### Password Complexity



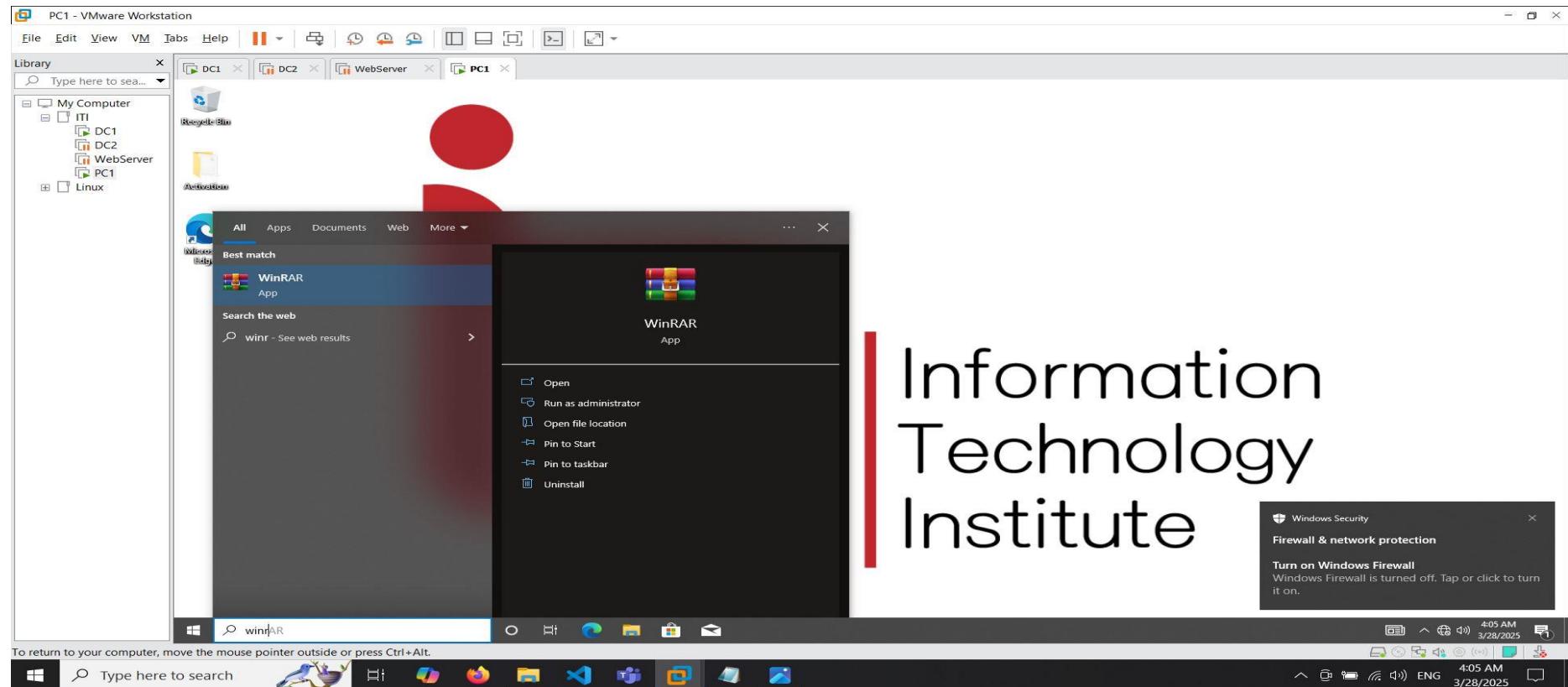
#### Deny USB access



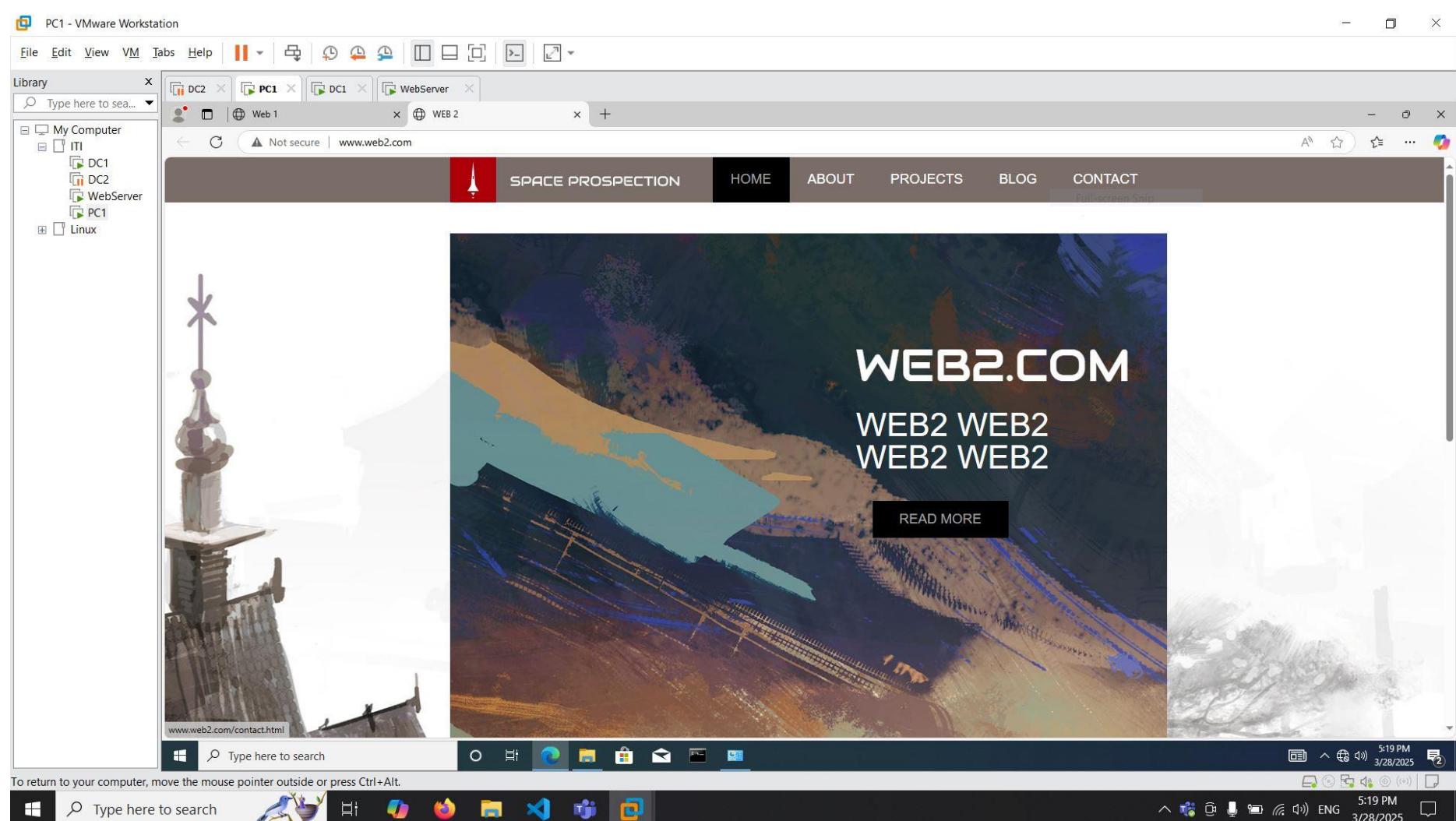
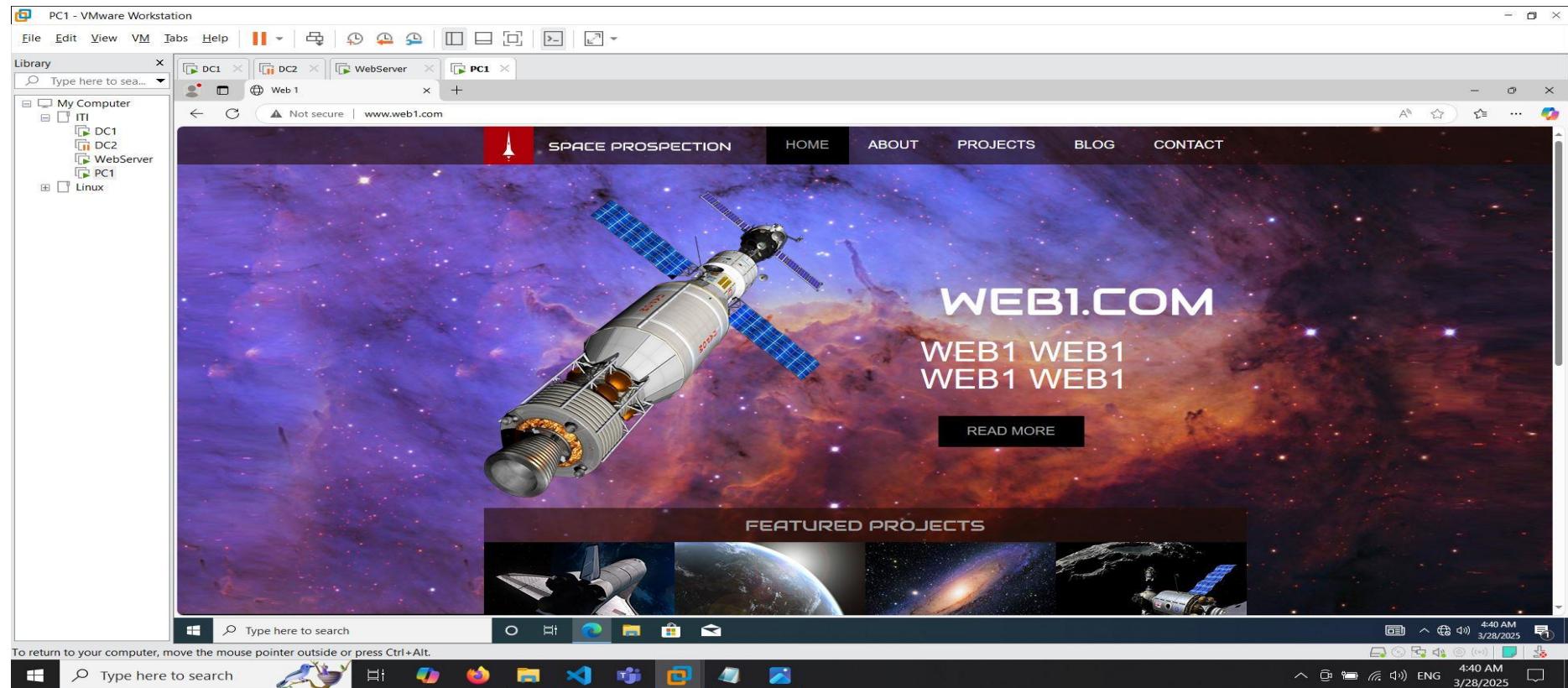
## Install Software: Firefox



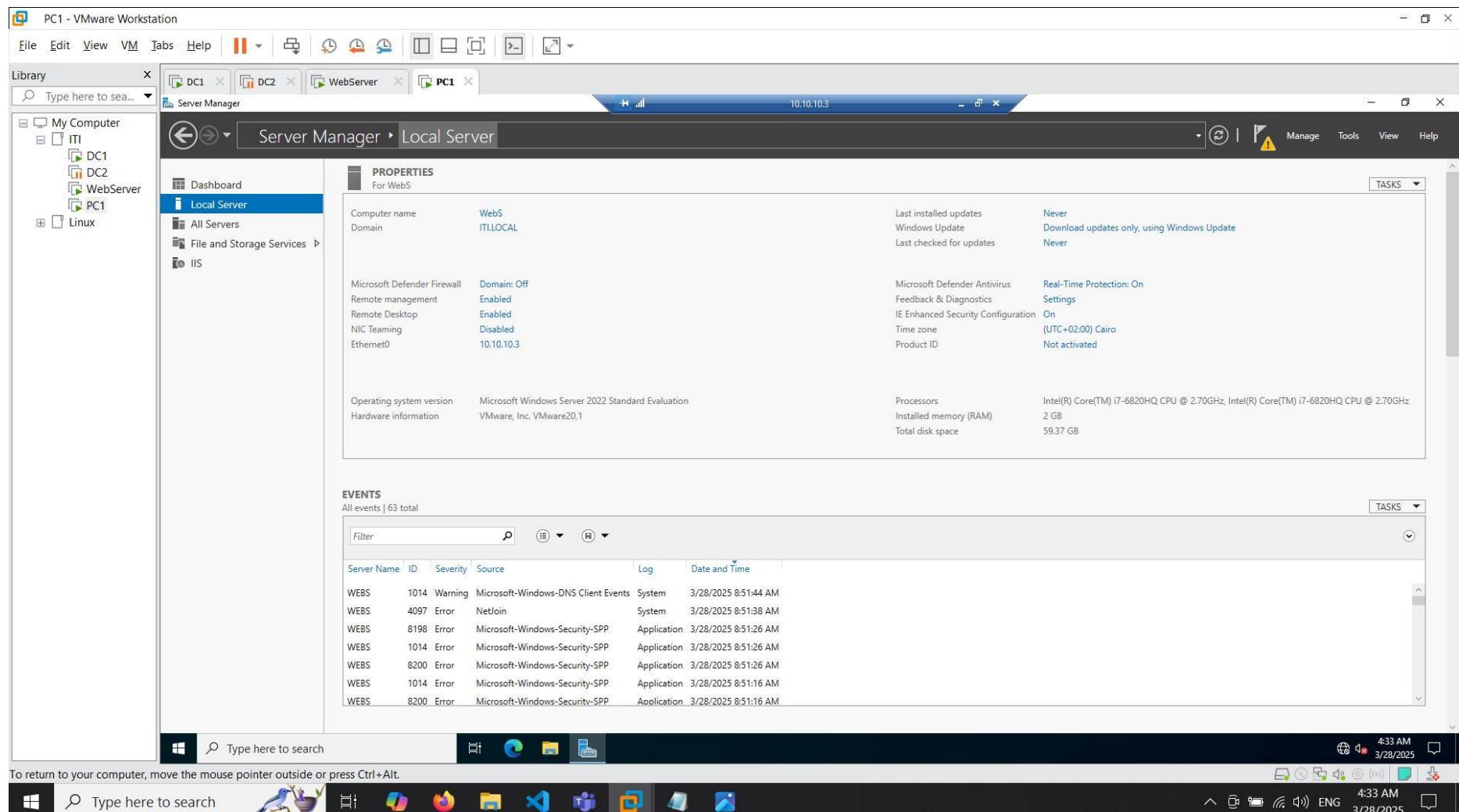
## WinRaR installed (Bonus)



## 4. Accessing Websites



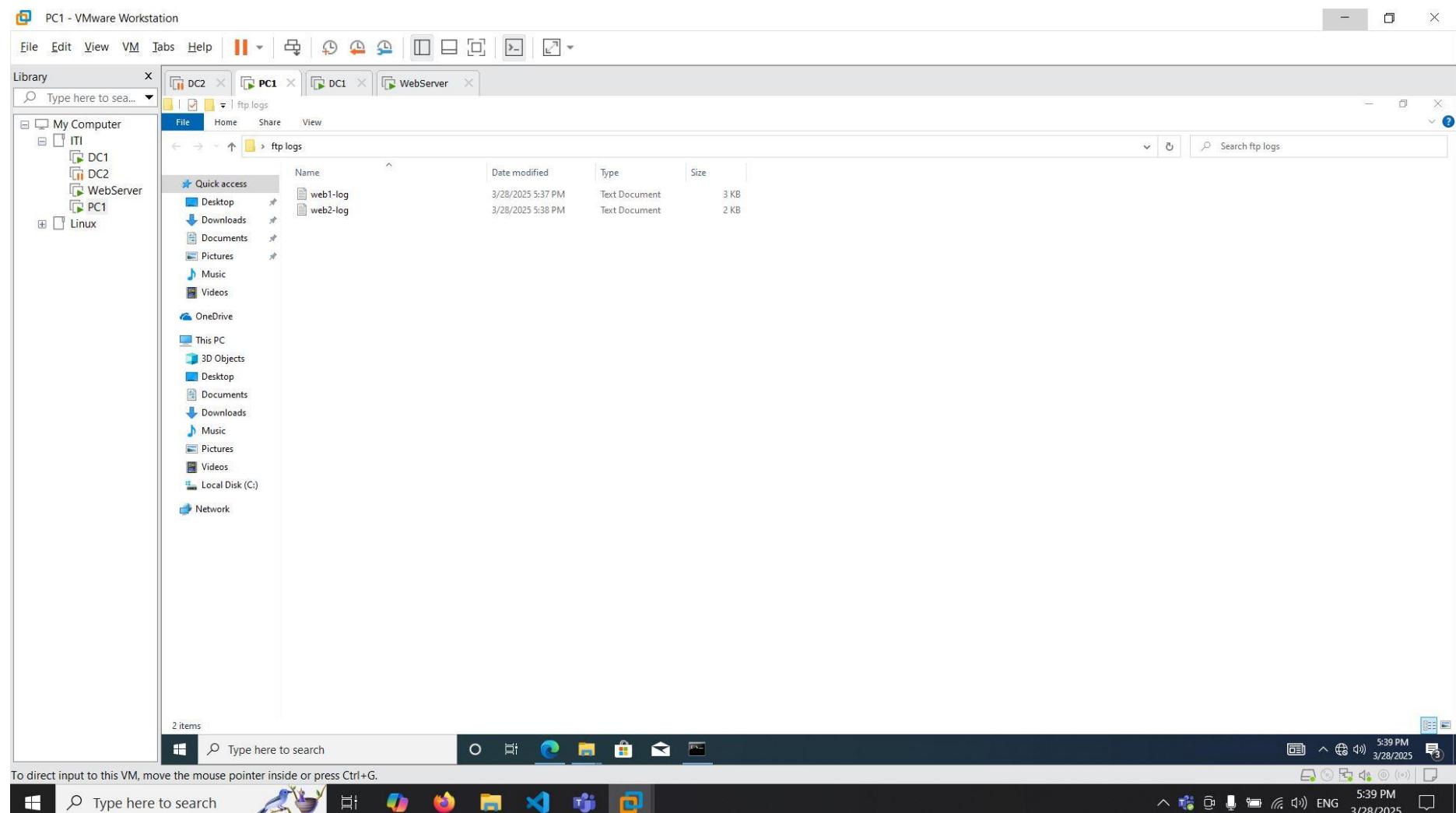
## 4. Remote Access



## 5. FTP Service:

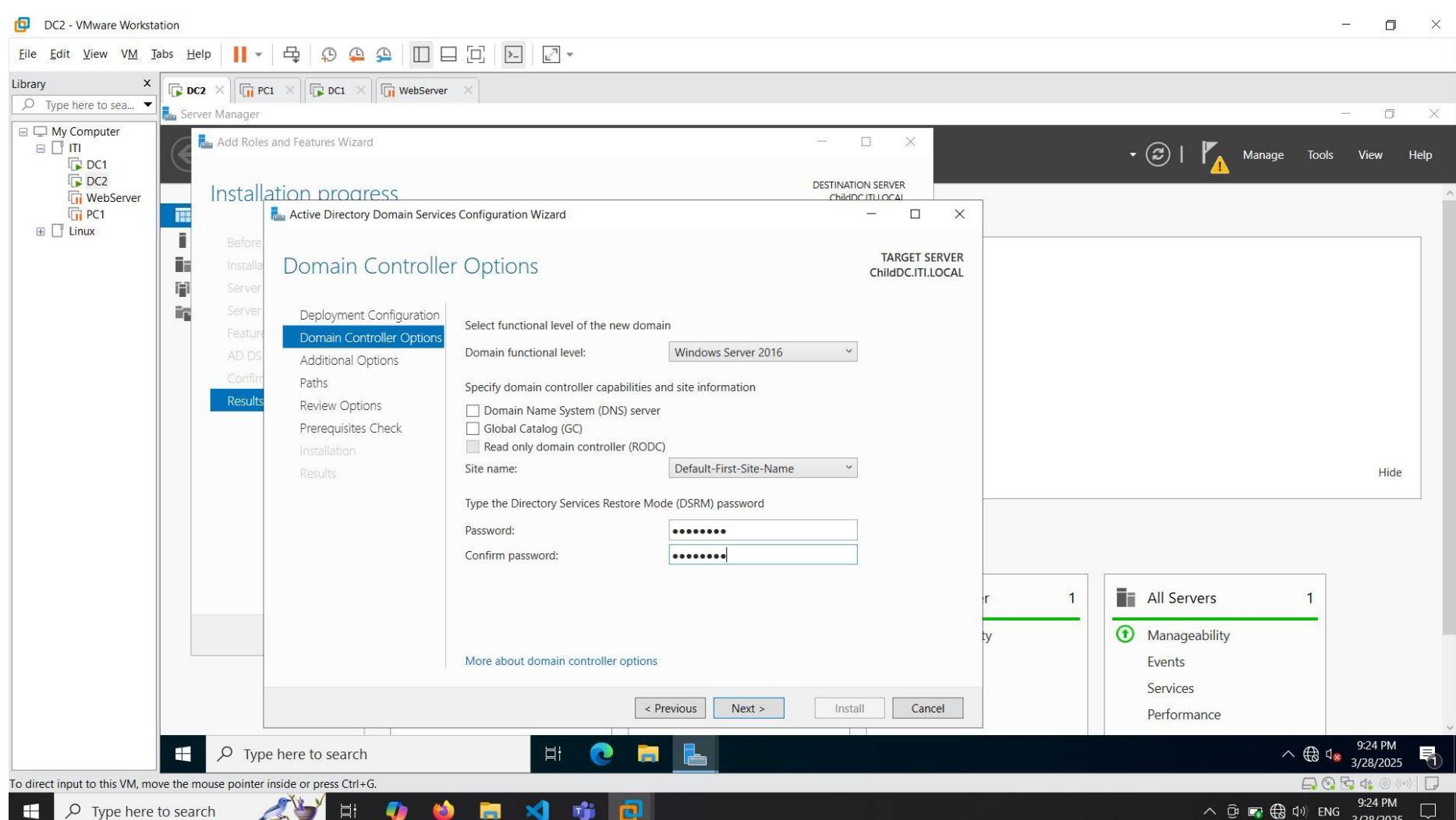
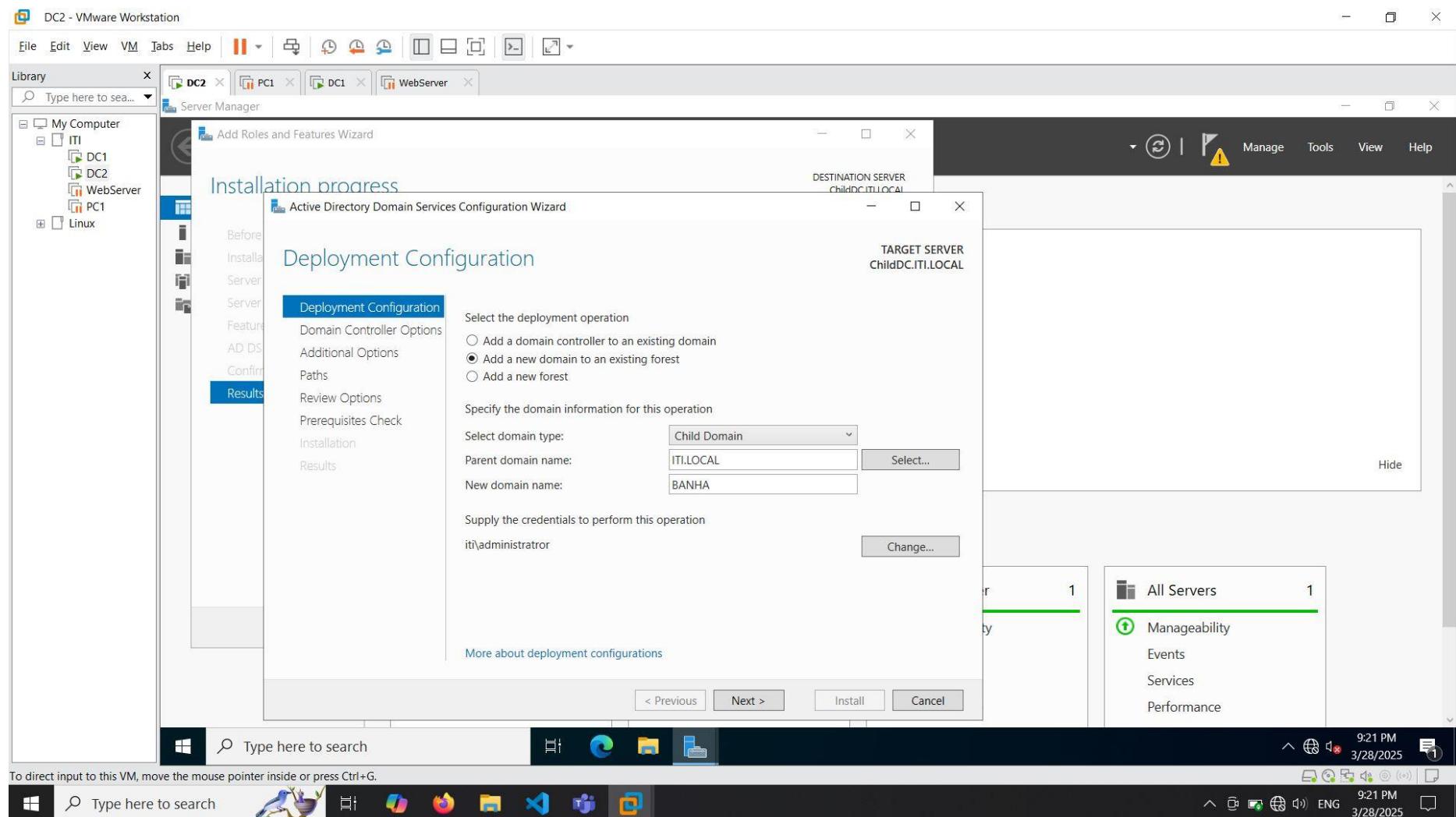
## User (Mohamed) getting log files from the webserver

The screenshot shows a VMware Workstation interface with a Windows 10 guest operating system running. The title bar reads "PC1 - VMware Workstation". The menu bar includes "File", "Edit", "View", "VM", "Help", and various icons for file operations. A toolbar above the menu bar contains icons for copy, paste, cut, undo, redo, and other functions. On the left, a "Library" sidebar lists "My Computer" (with "ITI" expanded), "DC1", "DC2", "WebServer", and "PC1". The main window displays a command prompt session titled "cmd Select C:\Windows\System32\cmd.exe - ftp 10.10.10.3". The session output shows multiple transfers of log files from a server at 10.10.10.3 to the local machine. The status bar at the bottom right shows the date and time as "5:38 PM 3/28/2025".

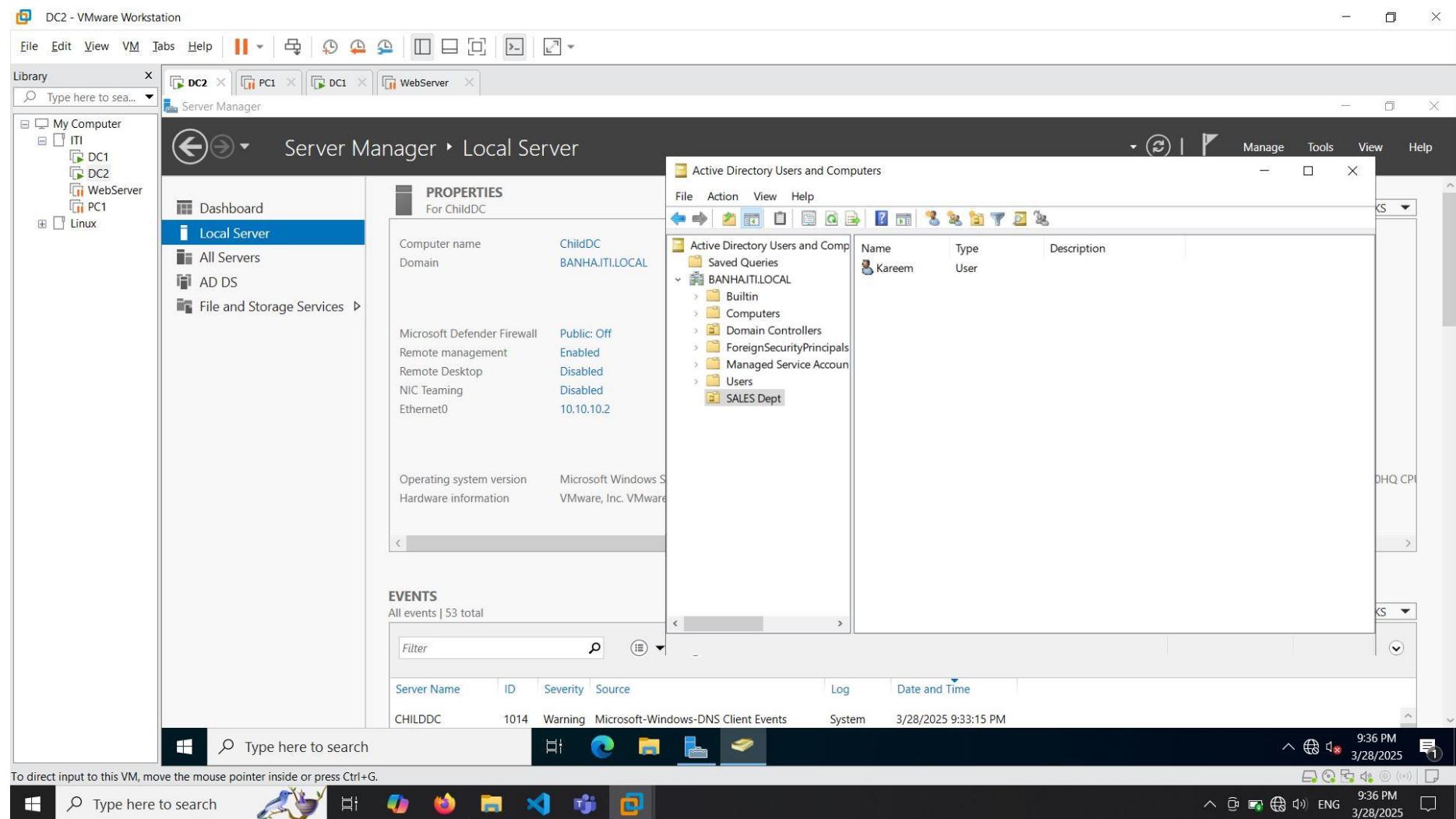


## E. DC2 (Child Domain):

### 1. Installing AD DS and Configuring it to be Child Domain named BANHA



## 2. Creating an OU in child domain (Sales) and a user (Kareem)



## 3. Logging Back into the parent domain and viewing the child domain NTDS

