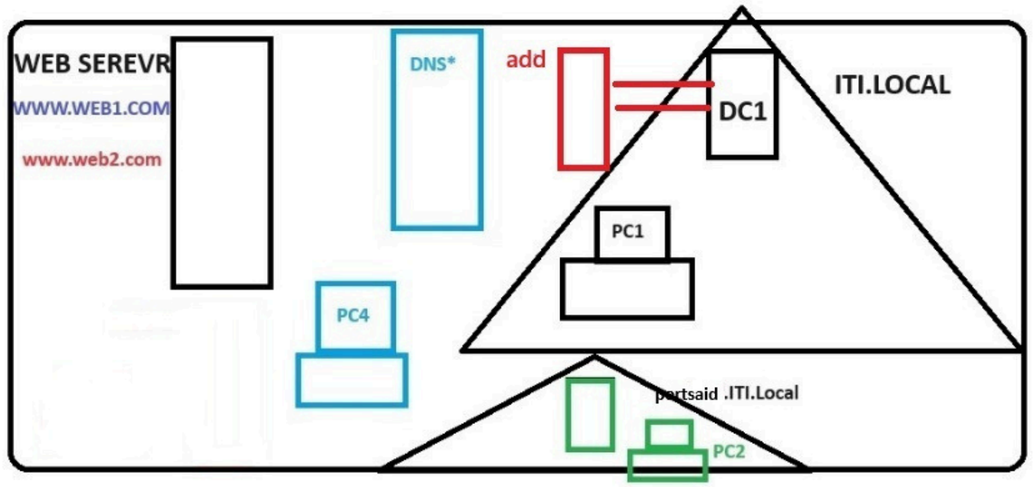
windows server project

Supervised by:
Eng/Mohamed Abosehly

Project Summary



USR1@ITI.LOCAL
- Can't login to pc1 on Fridays
user2@ITI.LOCAL
- Can login to PC1 And CAN login remotely on DC1 " he is not a Domain Admin "
user3@ITI.local
- when login to PC1 he found that a WinRAR program installed on his machine from a domain admin
user4@ITI.LOCAL & user3@ ITI.LOCAL
can't use a flash memory
and cant use control panel
and their desktop wallpaper is ITI logo

user 8 is a Remote user when login to any pc he is working on his profile on the server

user 7 is a local user on pc4 but can remote the webserver with an administrative privileges
and use the FTP protocol to get the logs file of iis as a backups to his pc

user 7 can browse http://www.web2.com from pc4 authoritatively from DNS *

user 6 @ portsiad.iti.local
can login to pc1 when he was in Smart village

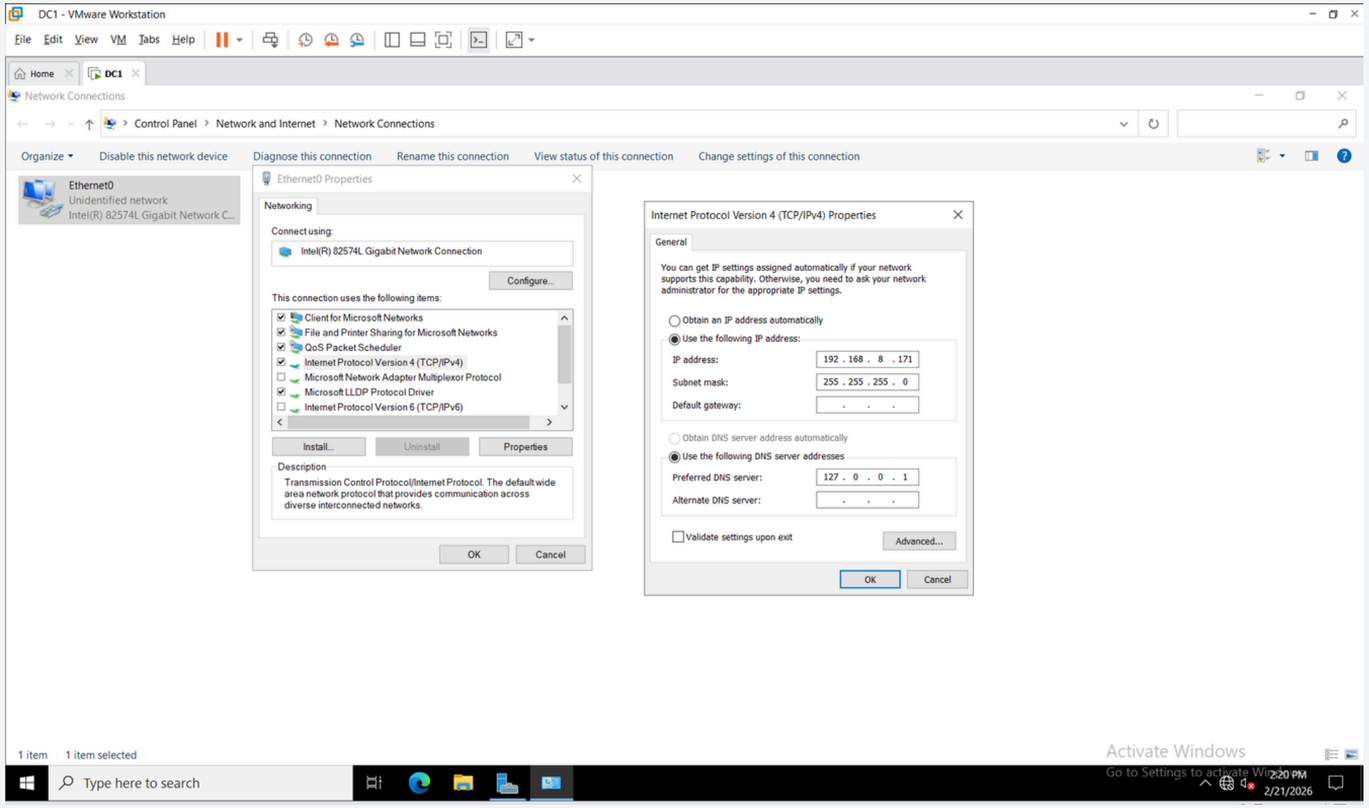
user 6 can browse http://www.web1.com from his local DNS in "Secondary Zone" portsaid

Network Configuration

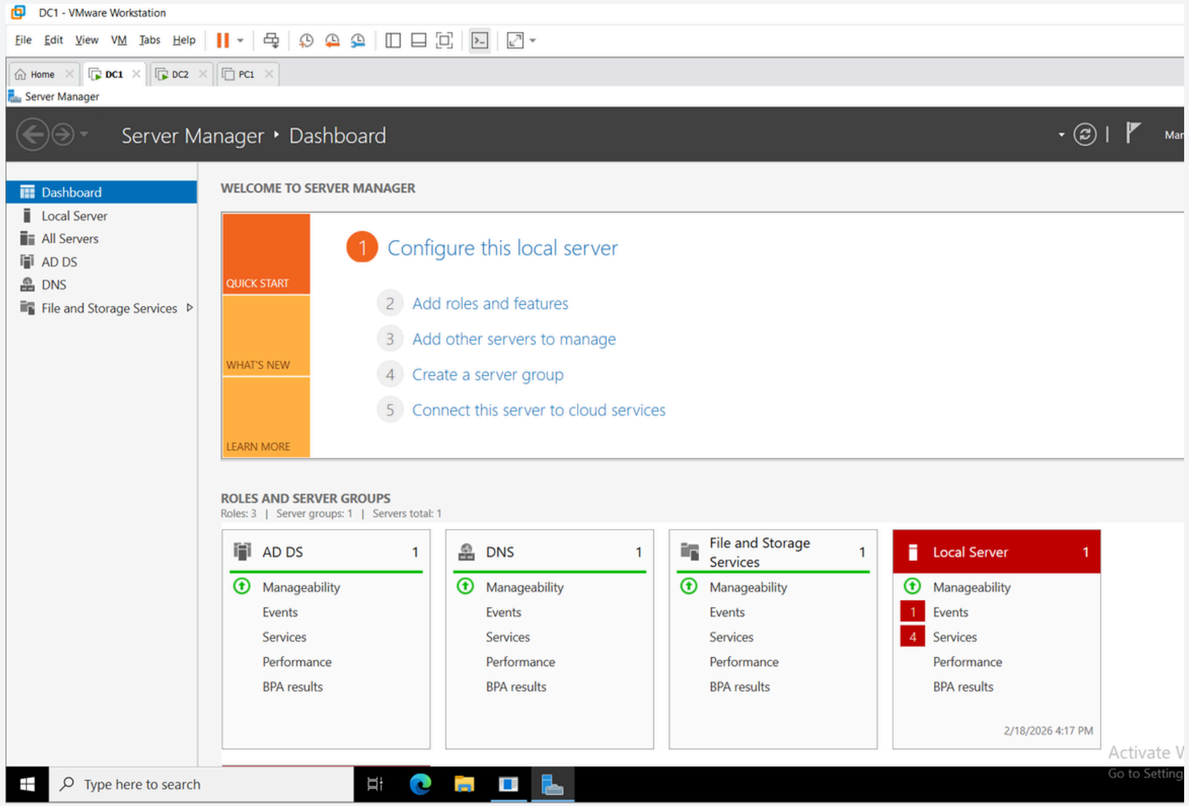
We linked all devices on one local network using a mobile hotspot and configured static IP addresses on both physical PCs and virtual machines to keep the connection stable and organized.

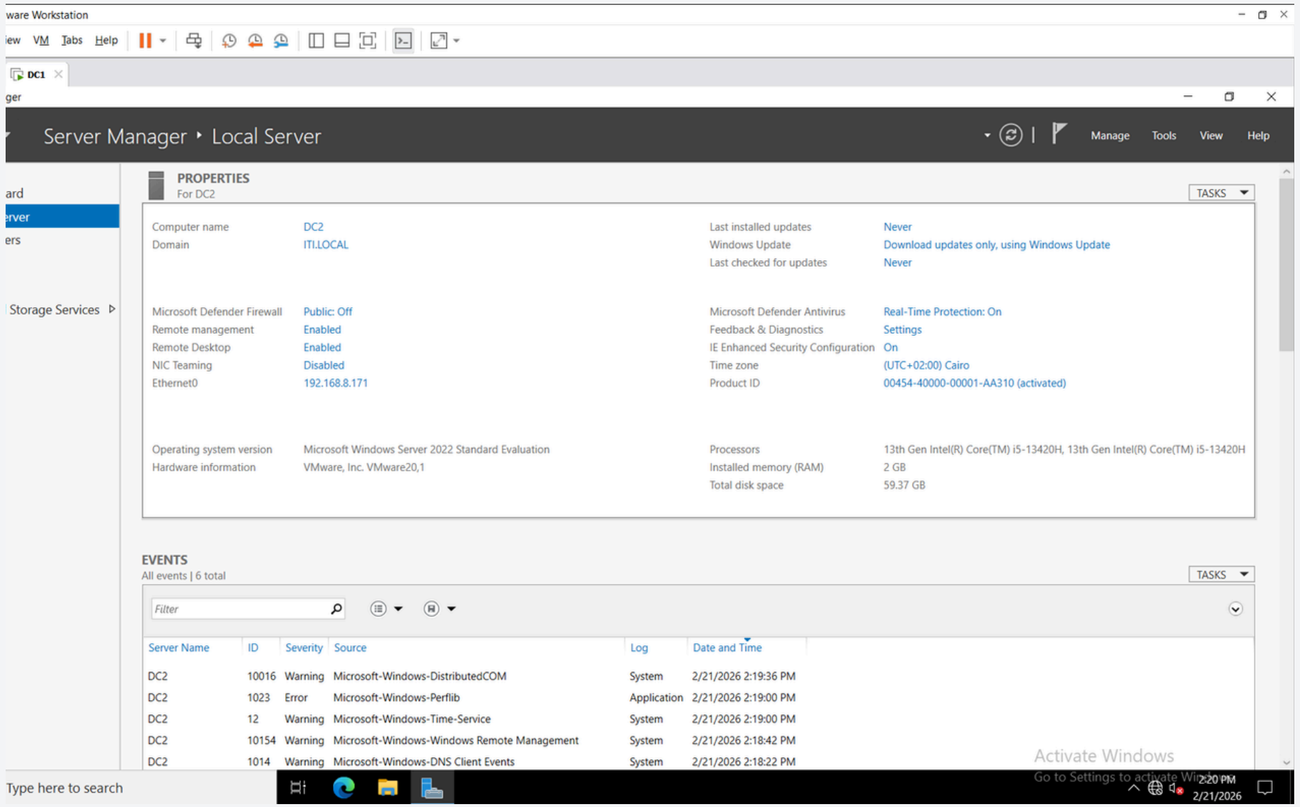
Domain Controllers

The main Domain Controller (DC2) was configured with a static IP address to provide consistent Active Directory and DNS services across the network.



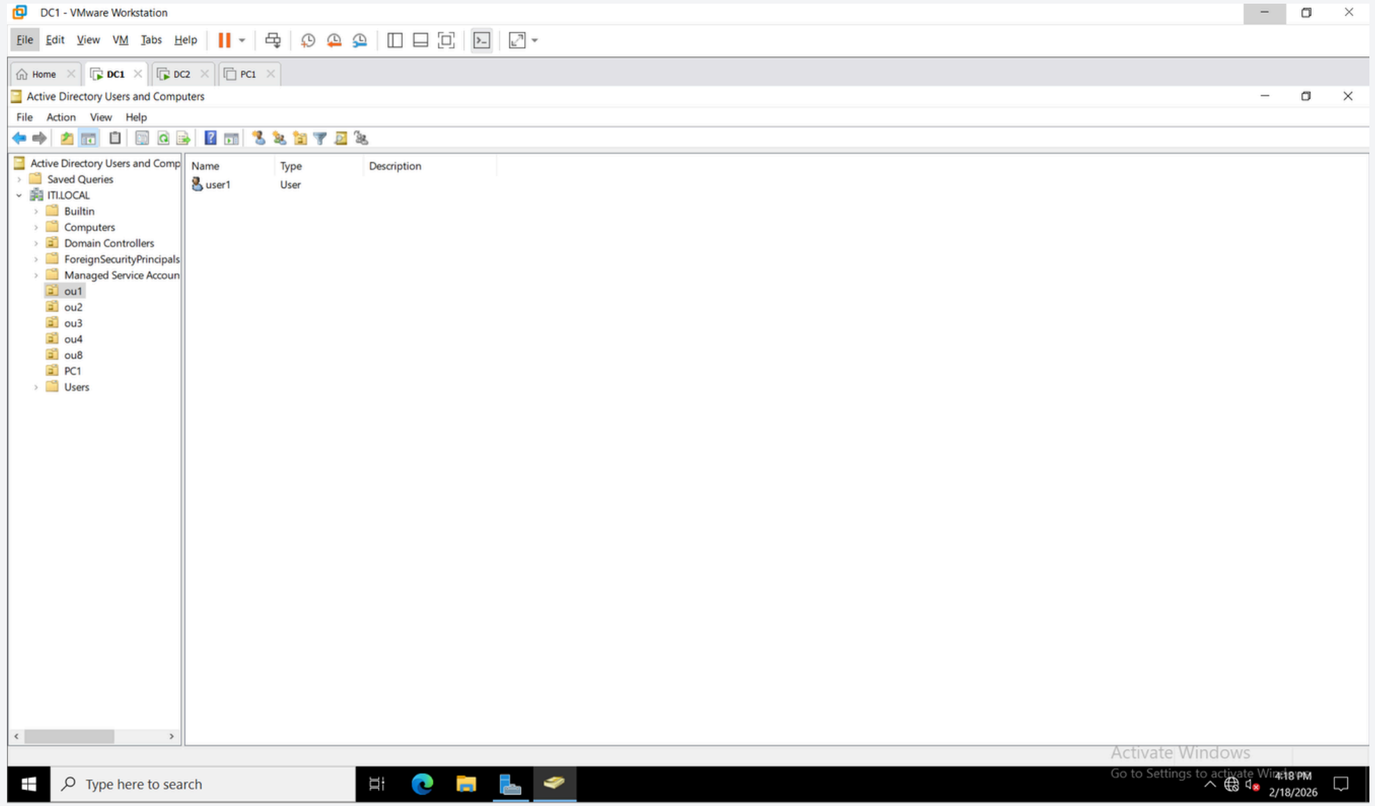
To prepare the server as a Domain Controller, we first installed the Active Directory Domain Services (AD DS) role.
Once completed, we created and configured a new domain called ITI.local.





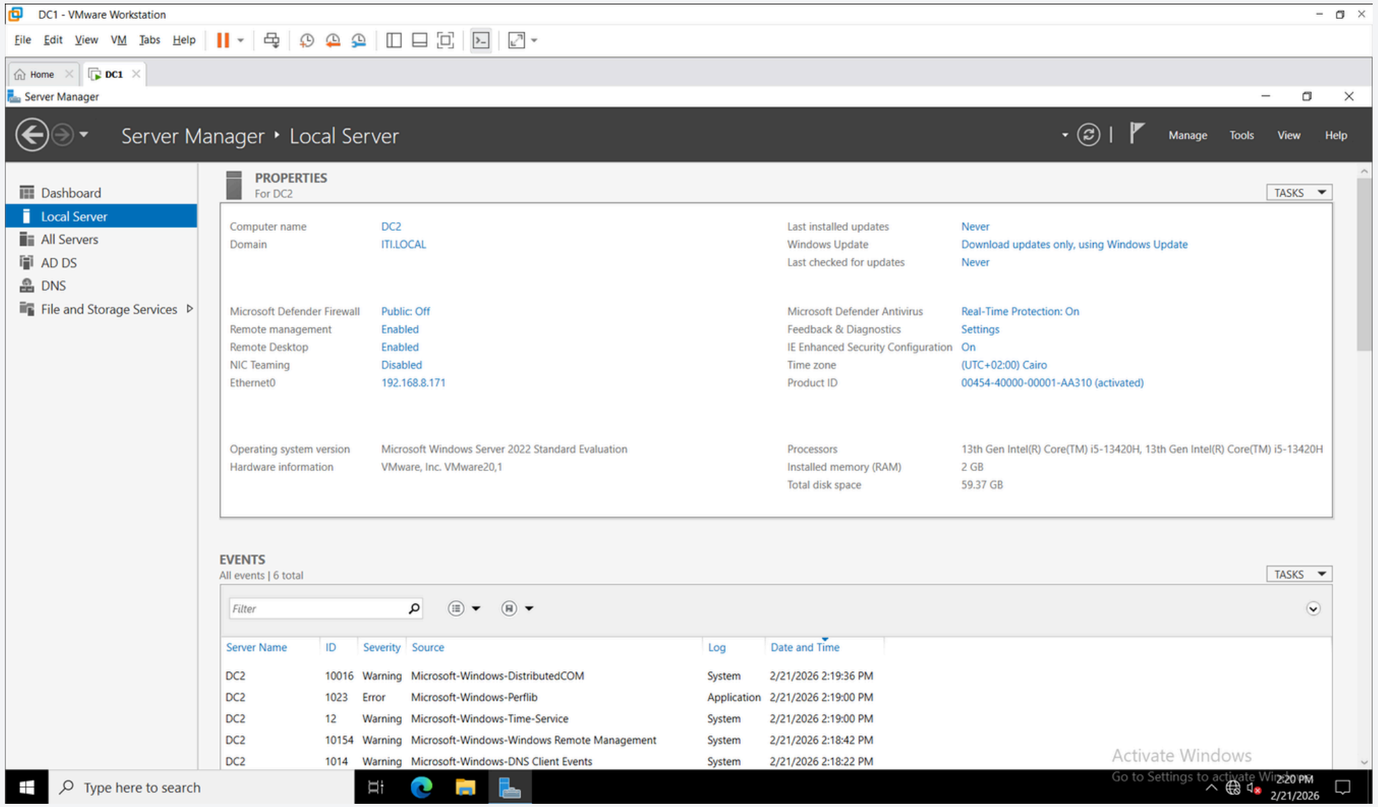
Organizational Units (OUs)

We created Organizational Units (OUs) and added multiple user accounts (user1 to user8) to organize the domain structure.



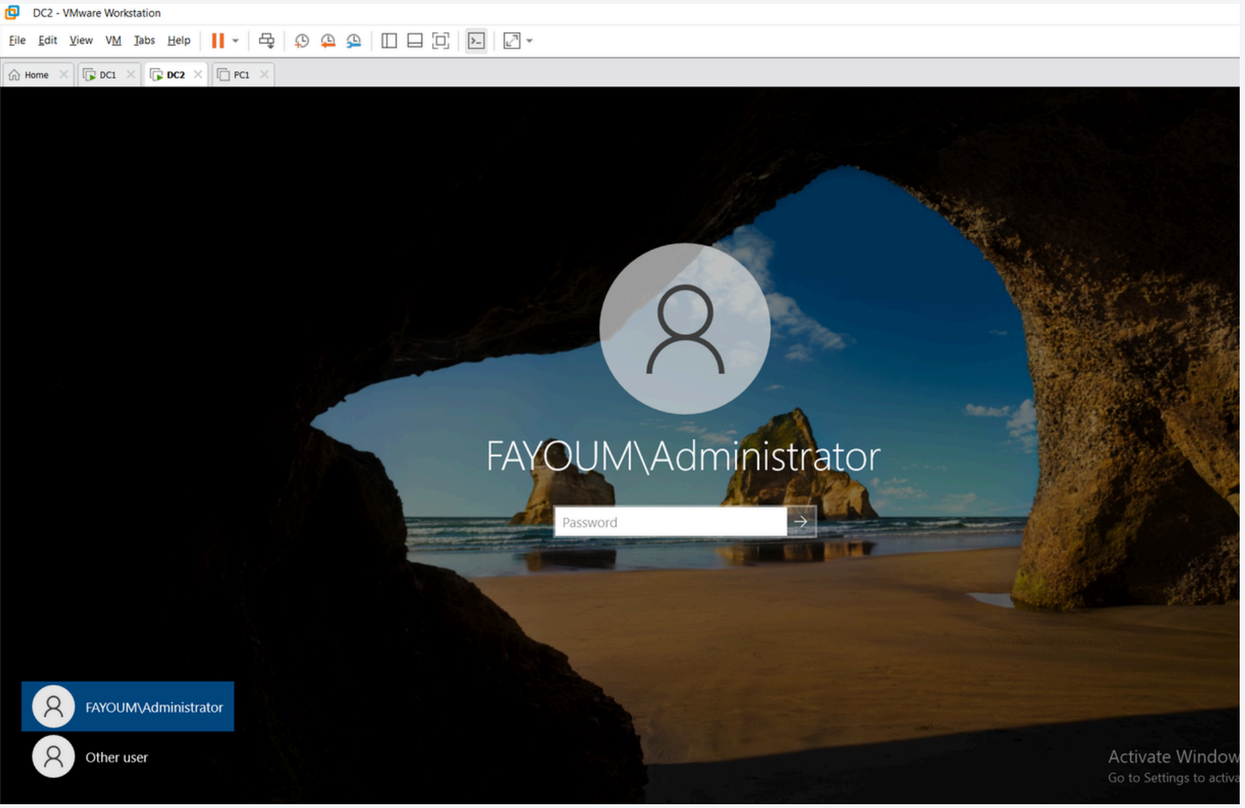
Configuring the Additional Domain Controller (DC4)

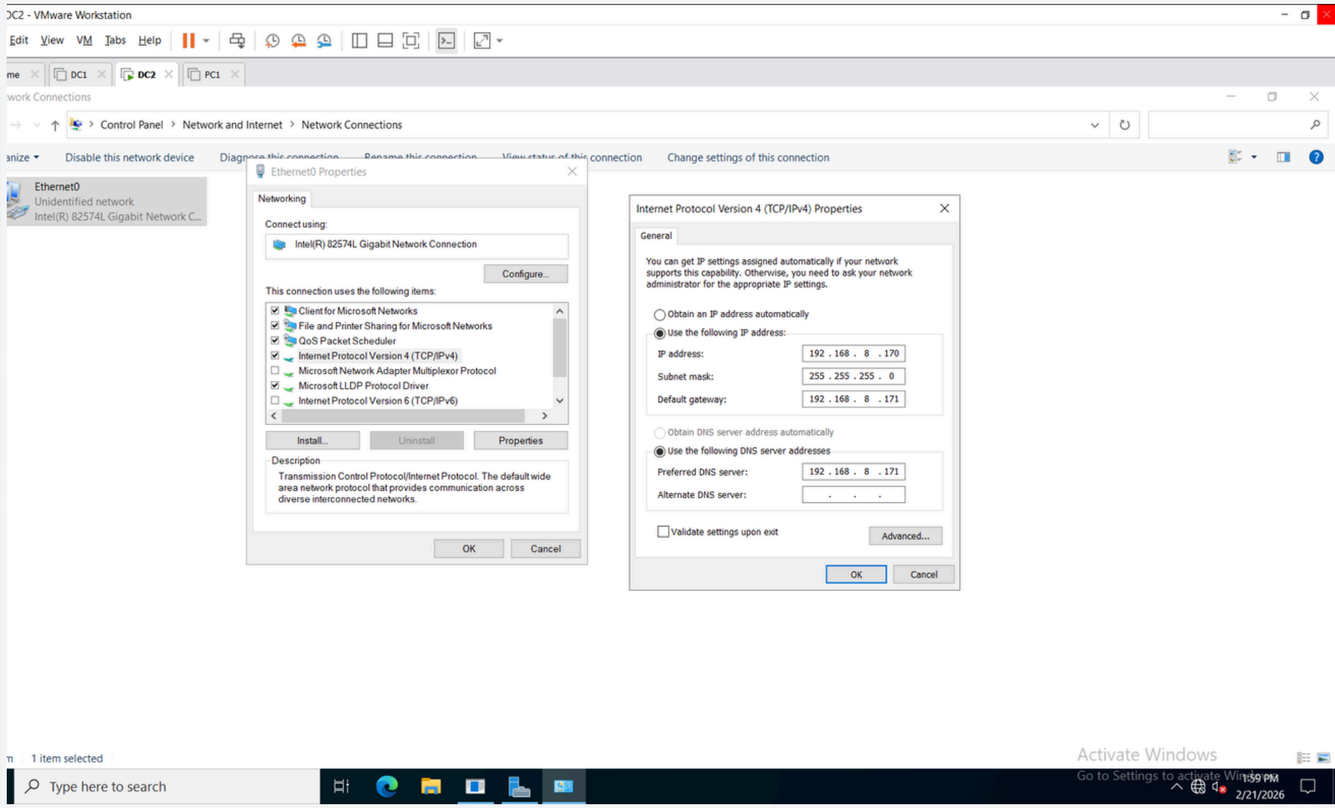
After setting up the primary domain controller (DC2), we promoted the second server to function as an Additional Domain Controller (DC4). This process provides redundancy, improves load distribution, and enhances the overall reliability of the ITI.local domain.



Child Domain Controller

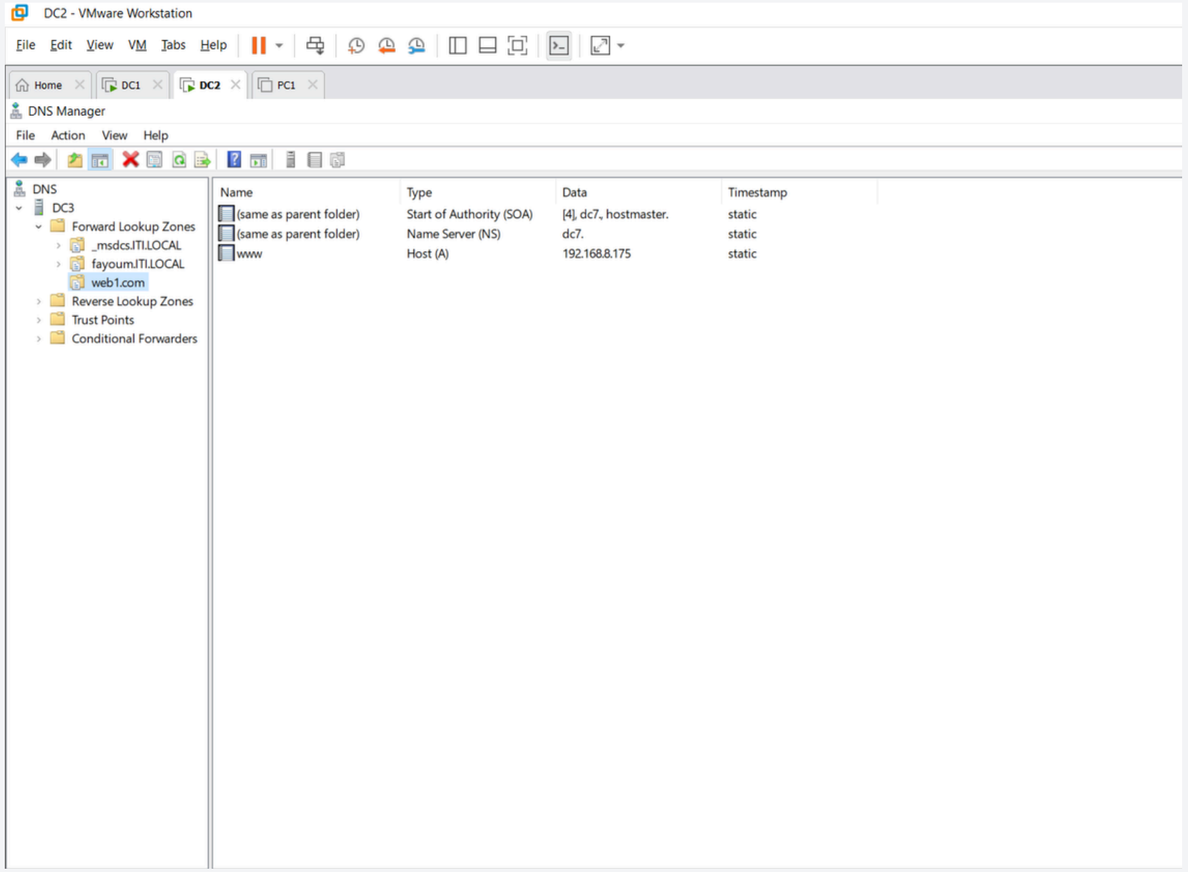
We set up the Fayoum Child Domain (fayoum.ITI.local) to expand the forest, allow local authentication, enhance performance, and establish administrative separation for the Fayoum branch.

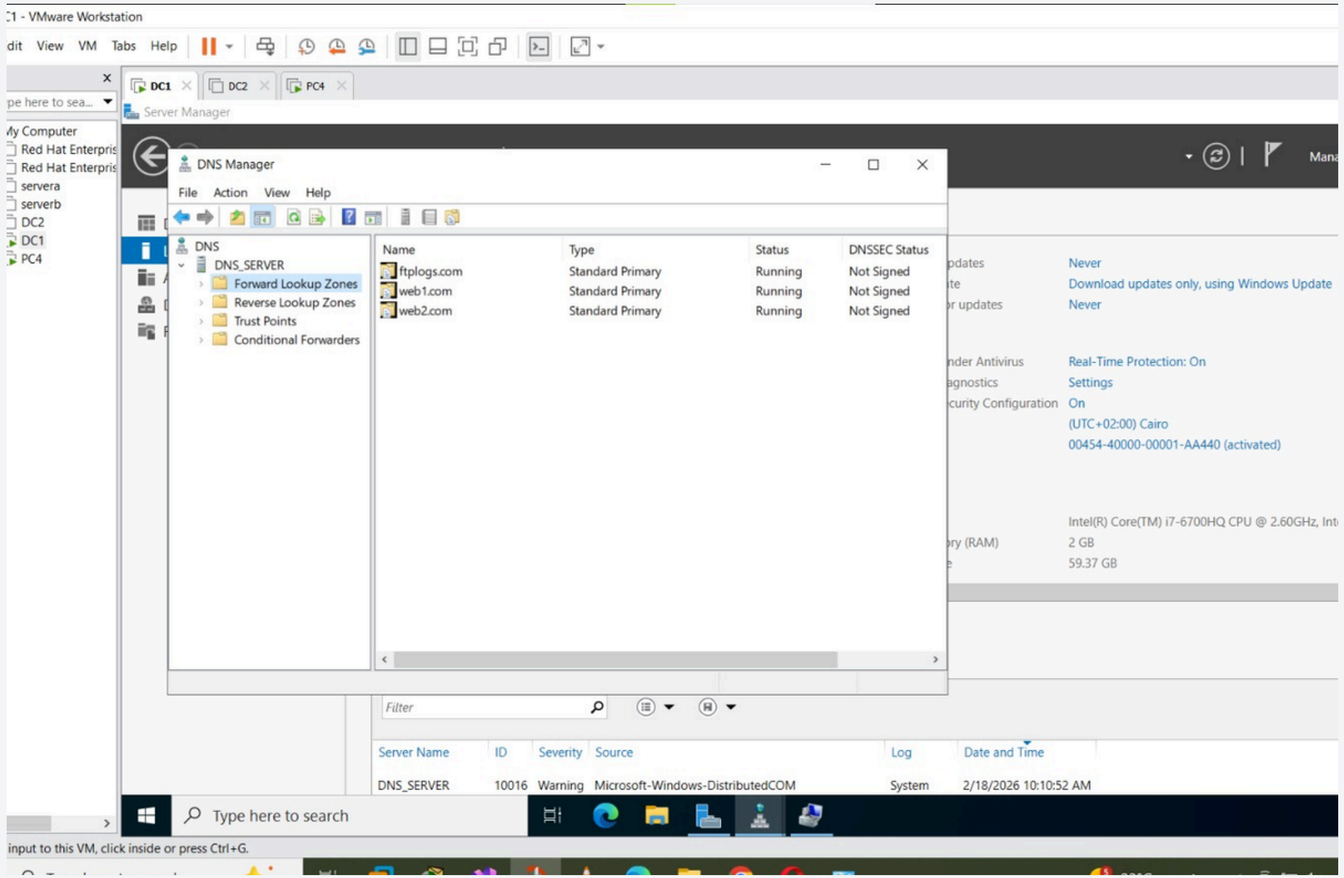




Web Server Overview & DNS Overview

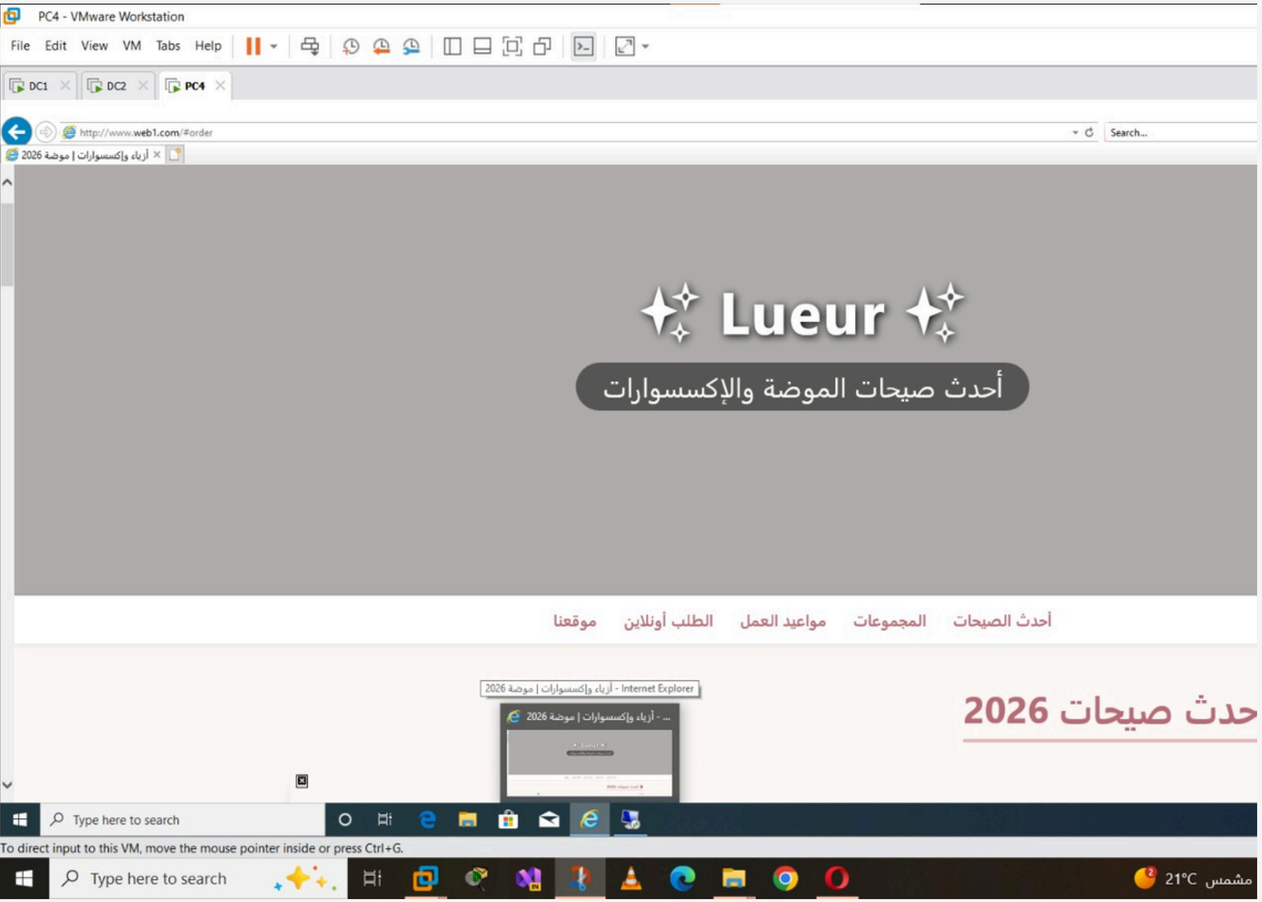
The forward lookup zones to the websites

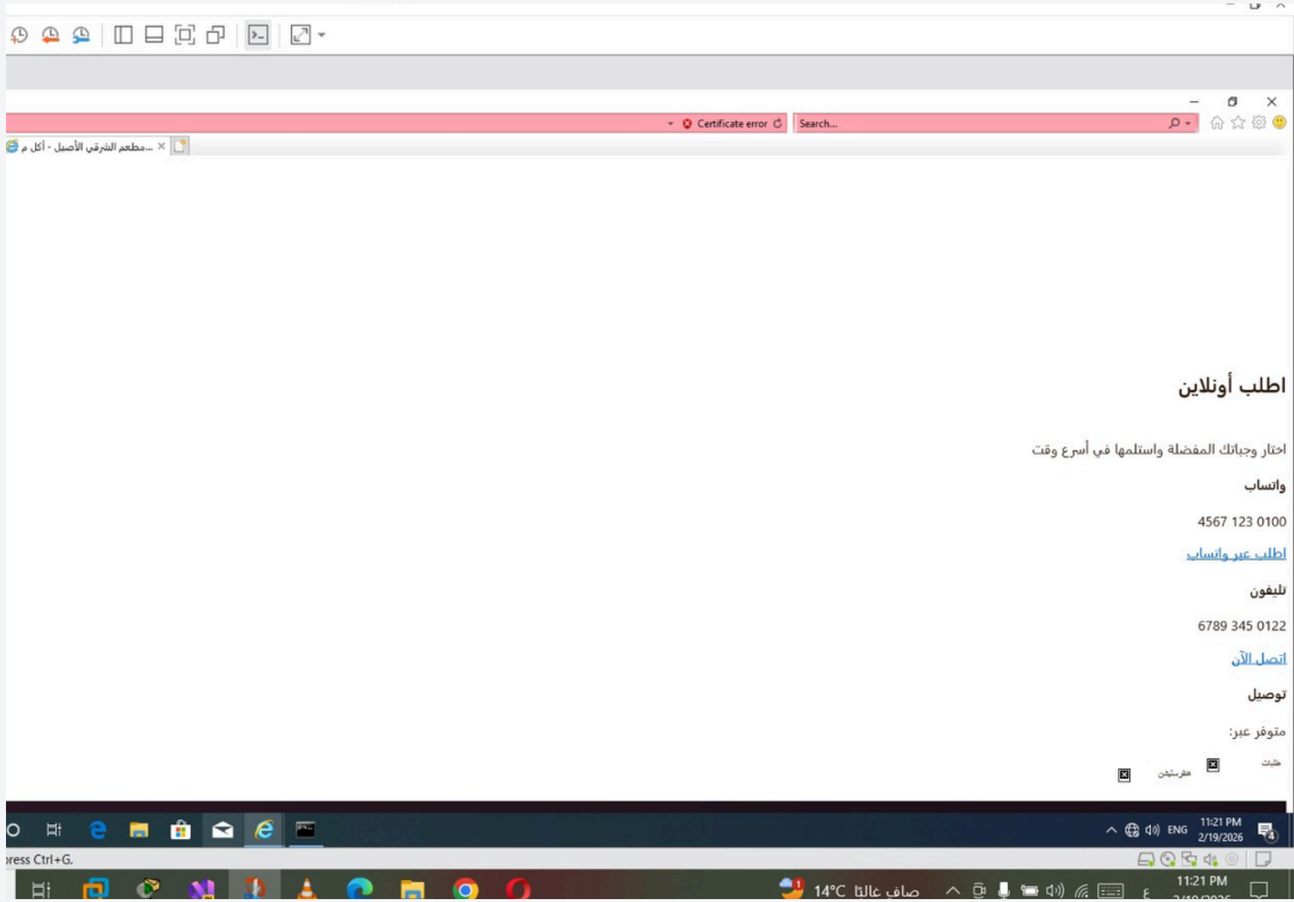




Web Server Overview & DNS Overview

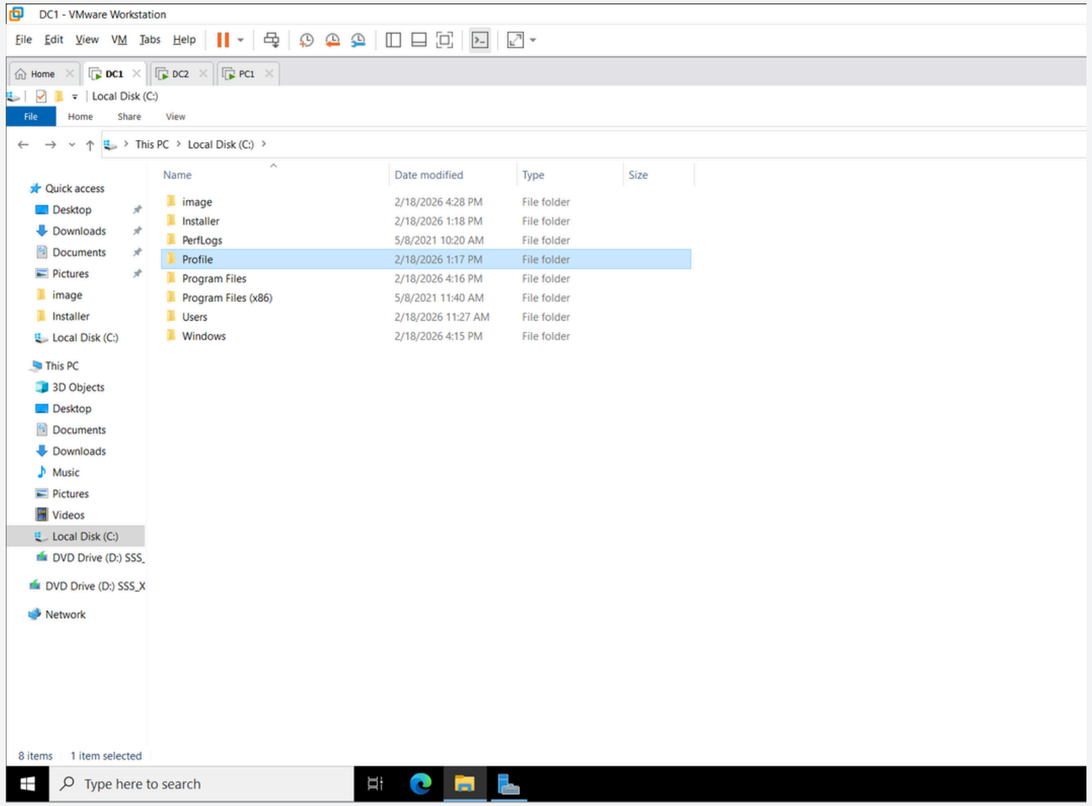
We set up two web servers: one HTTP server hosting www.web1.com and one HTTPS server hosting www.web2.com.

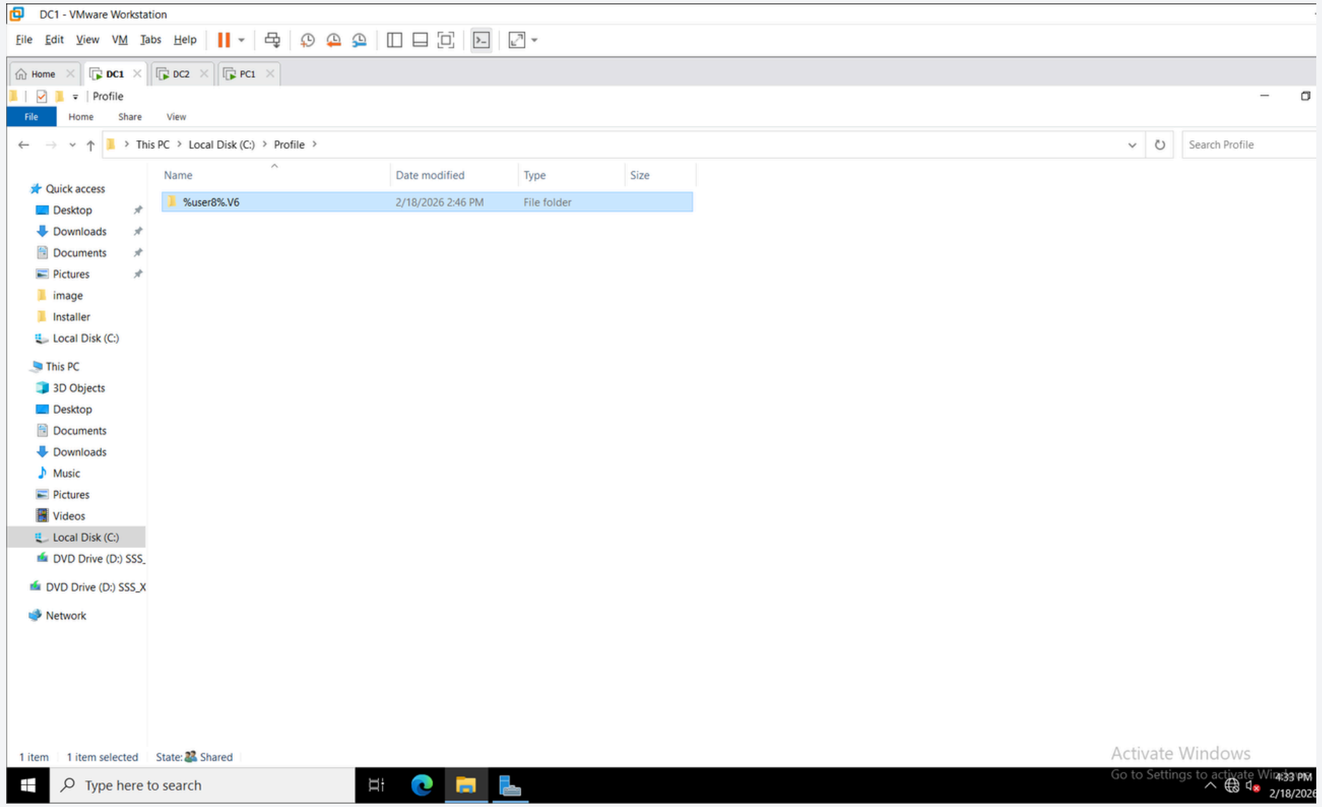




Roaming Profile Configuration

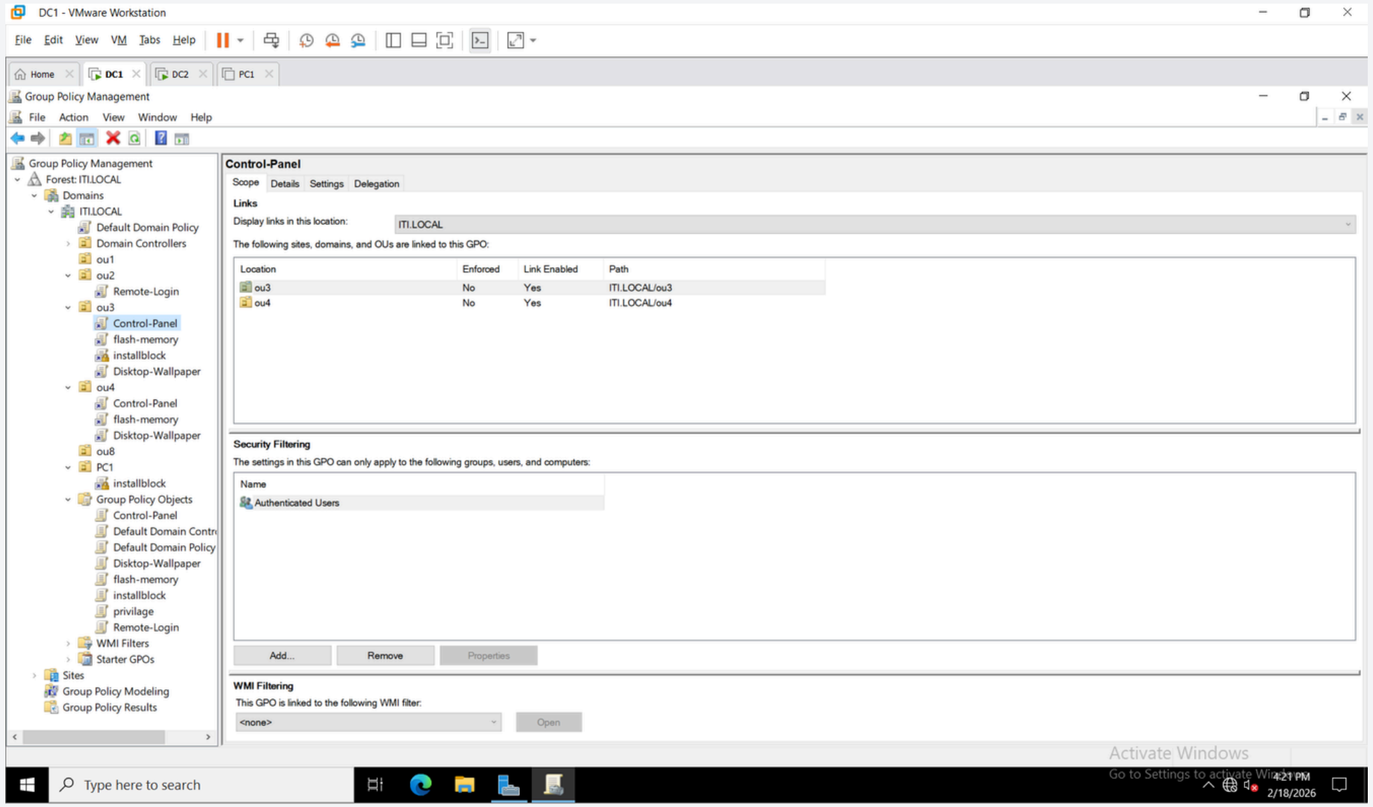
Roaming Profile: keeps the user’s settings consistent across all domain computers.





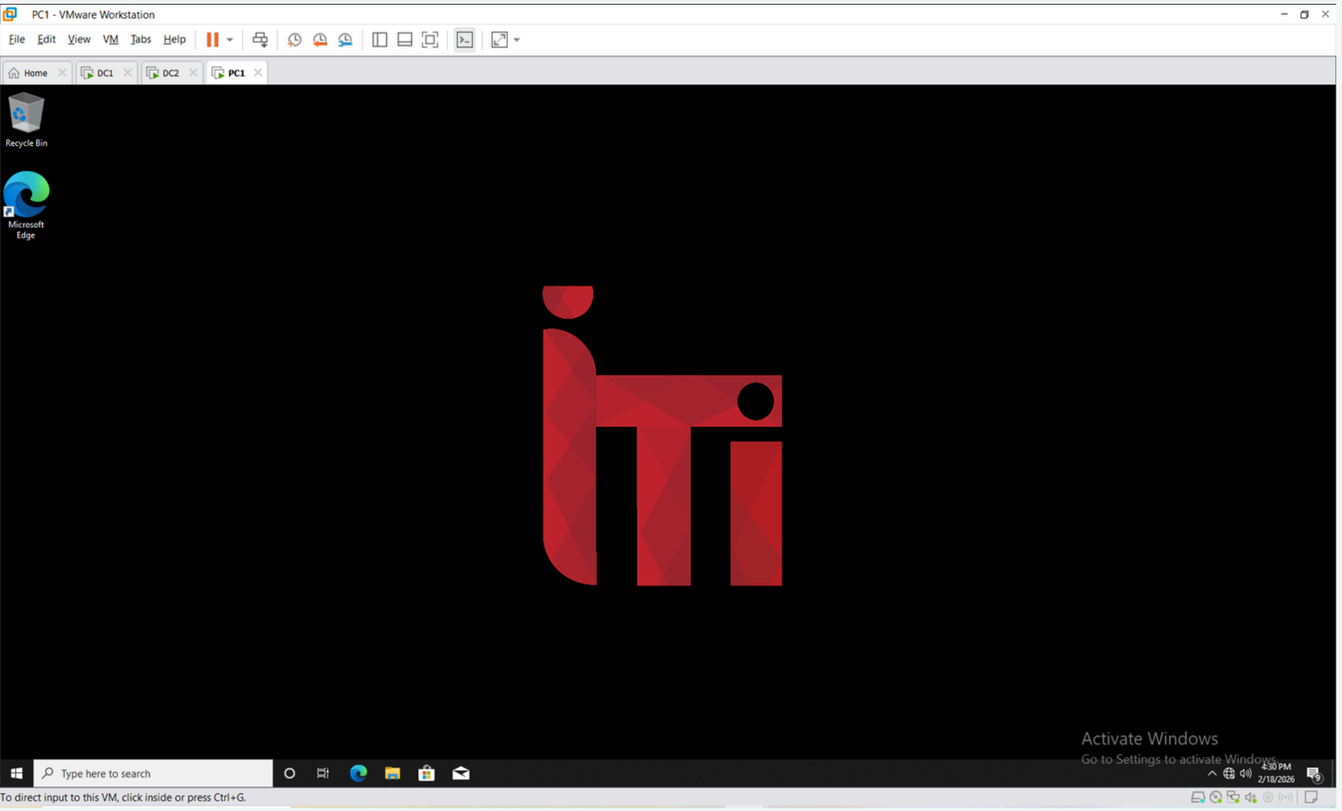
Policies Configuration

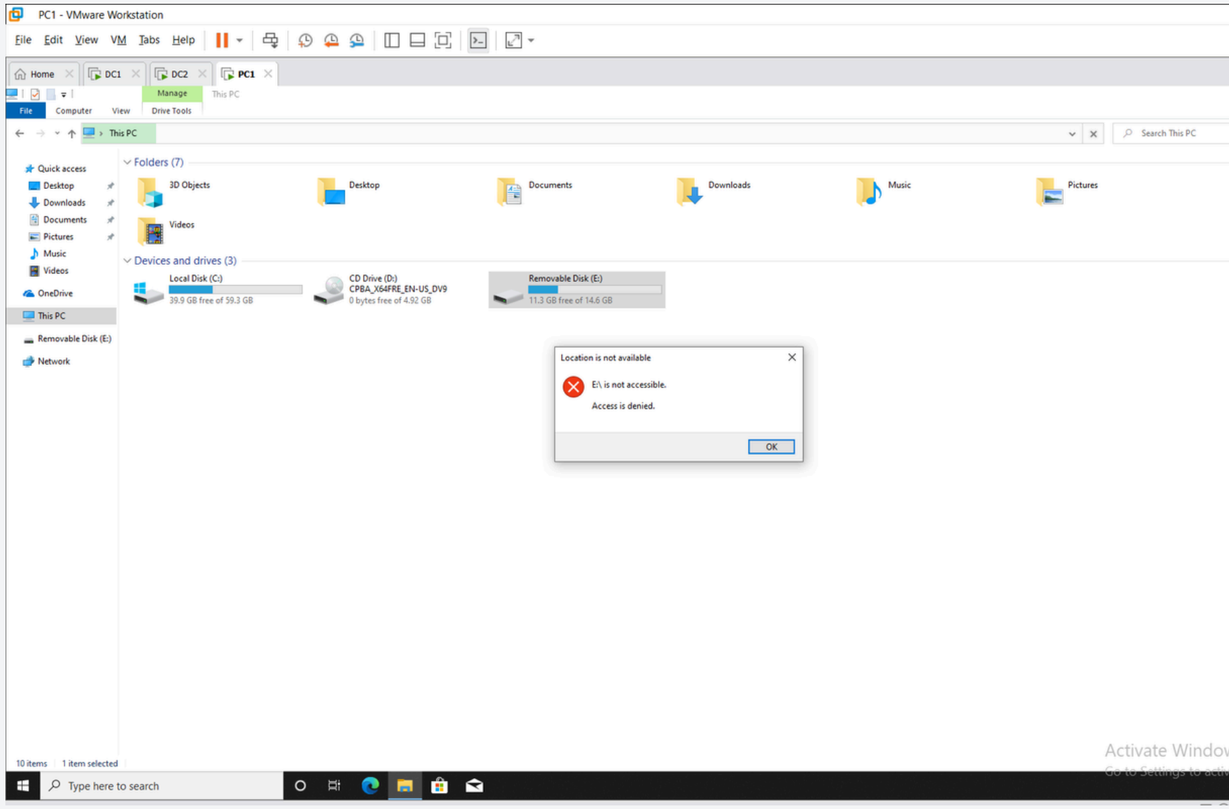
All Group Policies were set up to manage user permissions, enforce security rules, personalize the desktop environment, and automatically deploy necessary software throughout the domain.



Policies Configuration

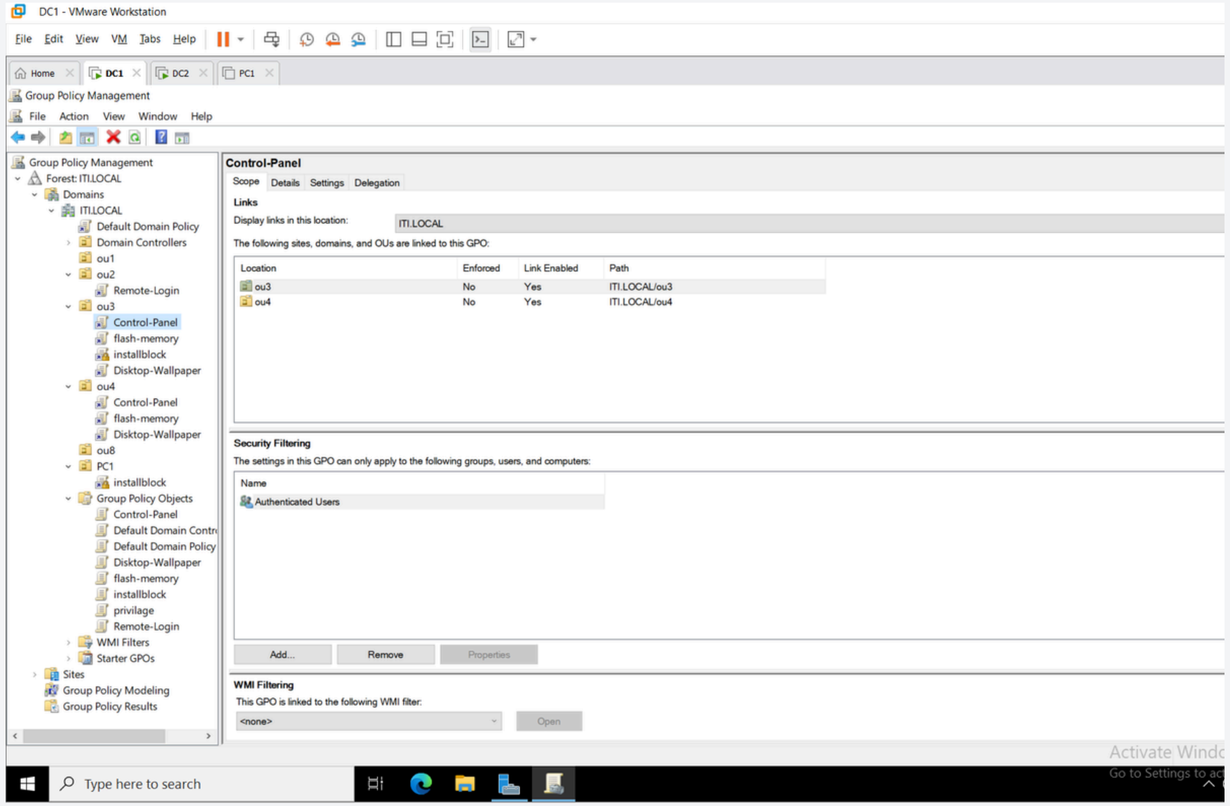
All Group Policies were set up to manage user permissions, enforce security rules, personalize the desktop environment, and automatically deploy necessary software throughout the domain.

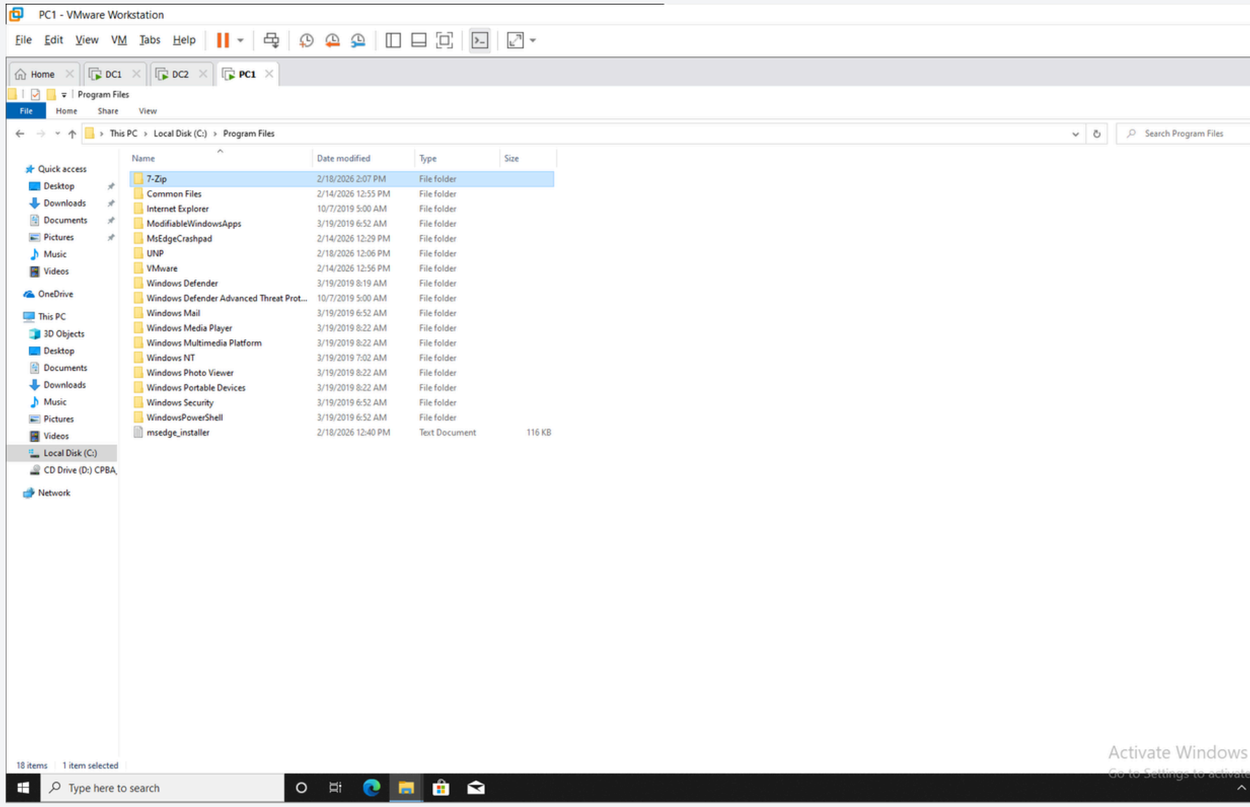




Policies Configuration

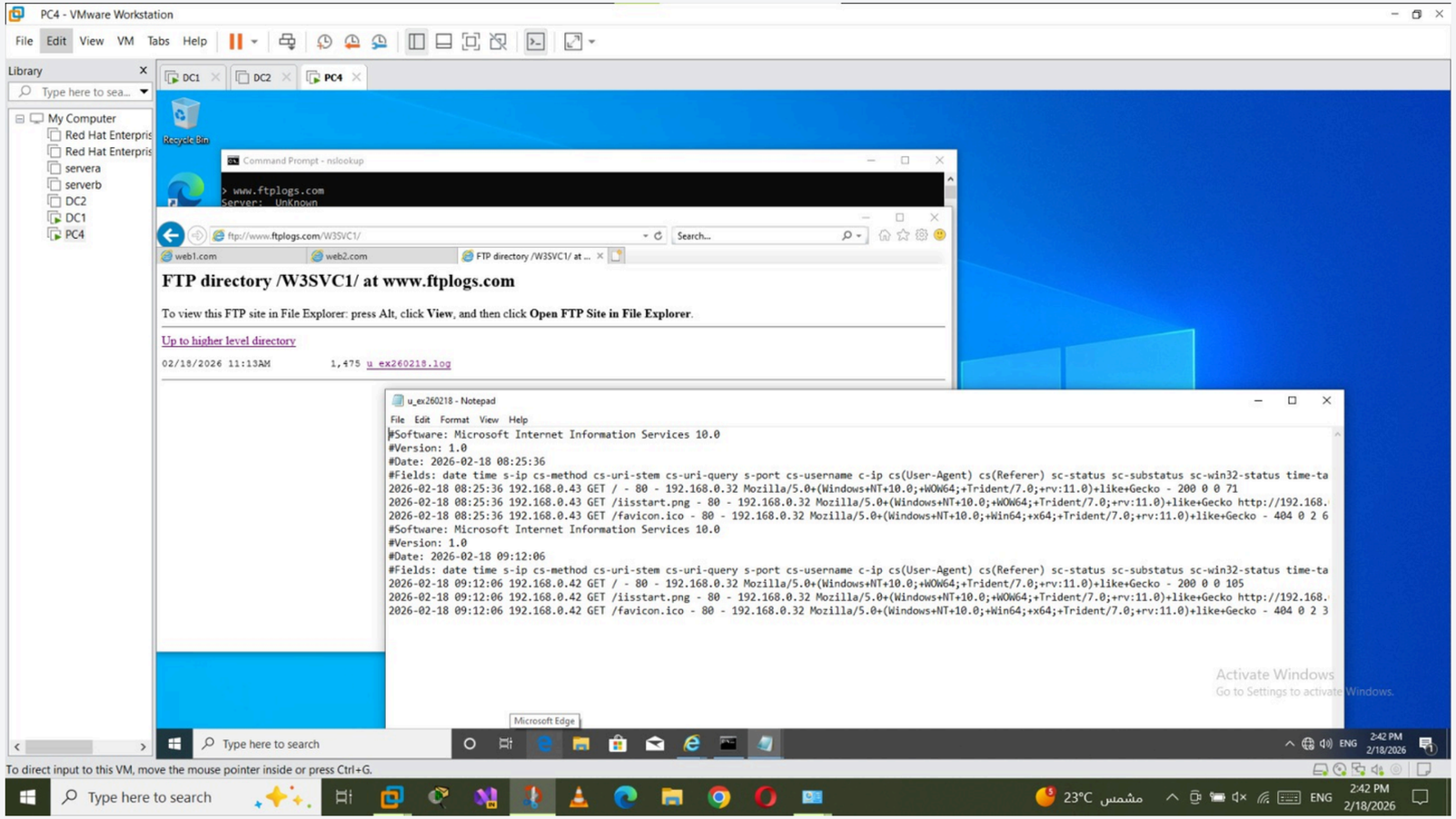
All Group Policies were set up to manage user permissions, enforce security rules, personalize the desktop environment, and automatically deploy necessary software throughout the domain.





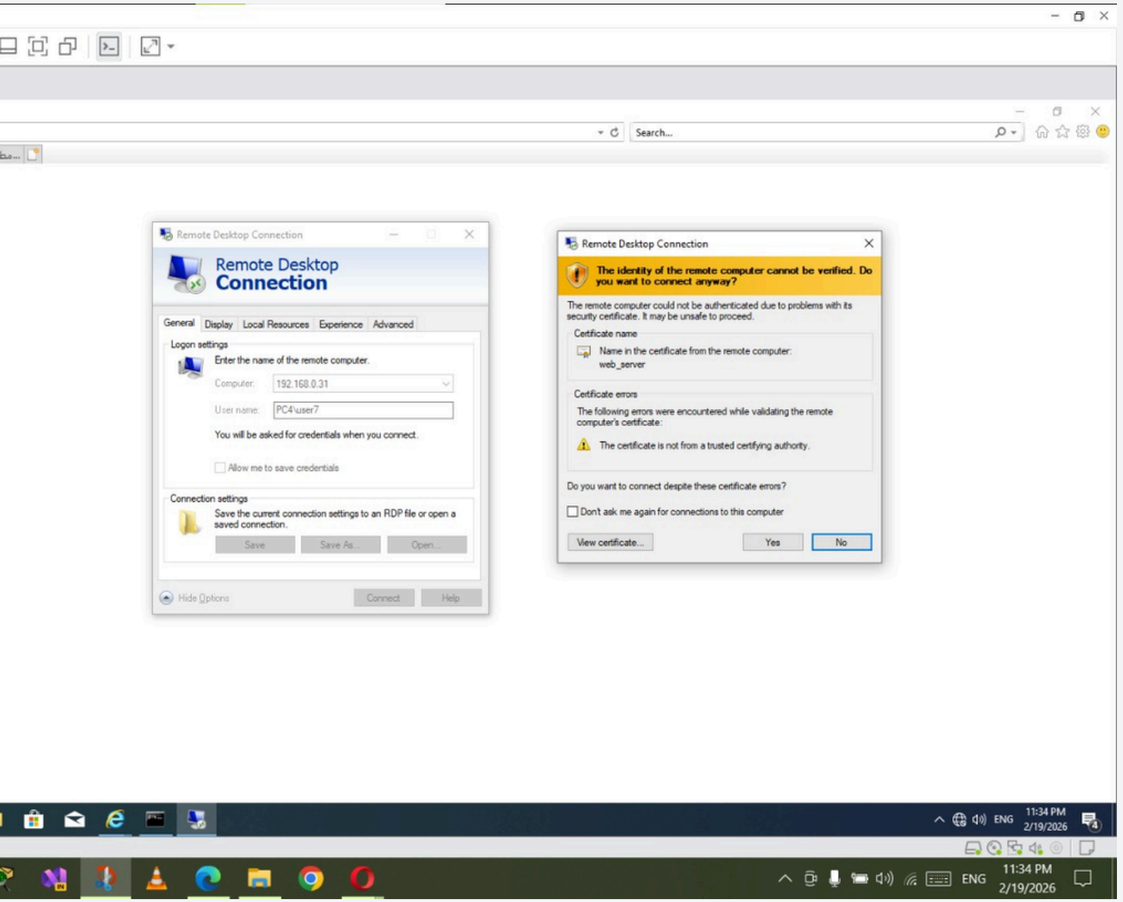
FTP Configration

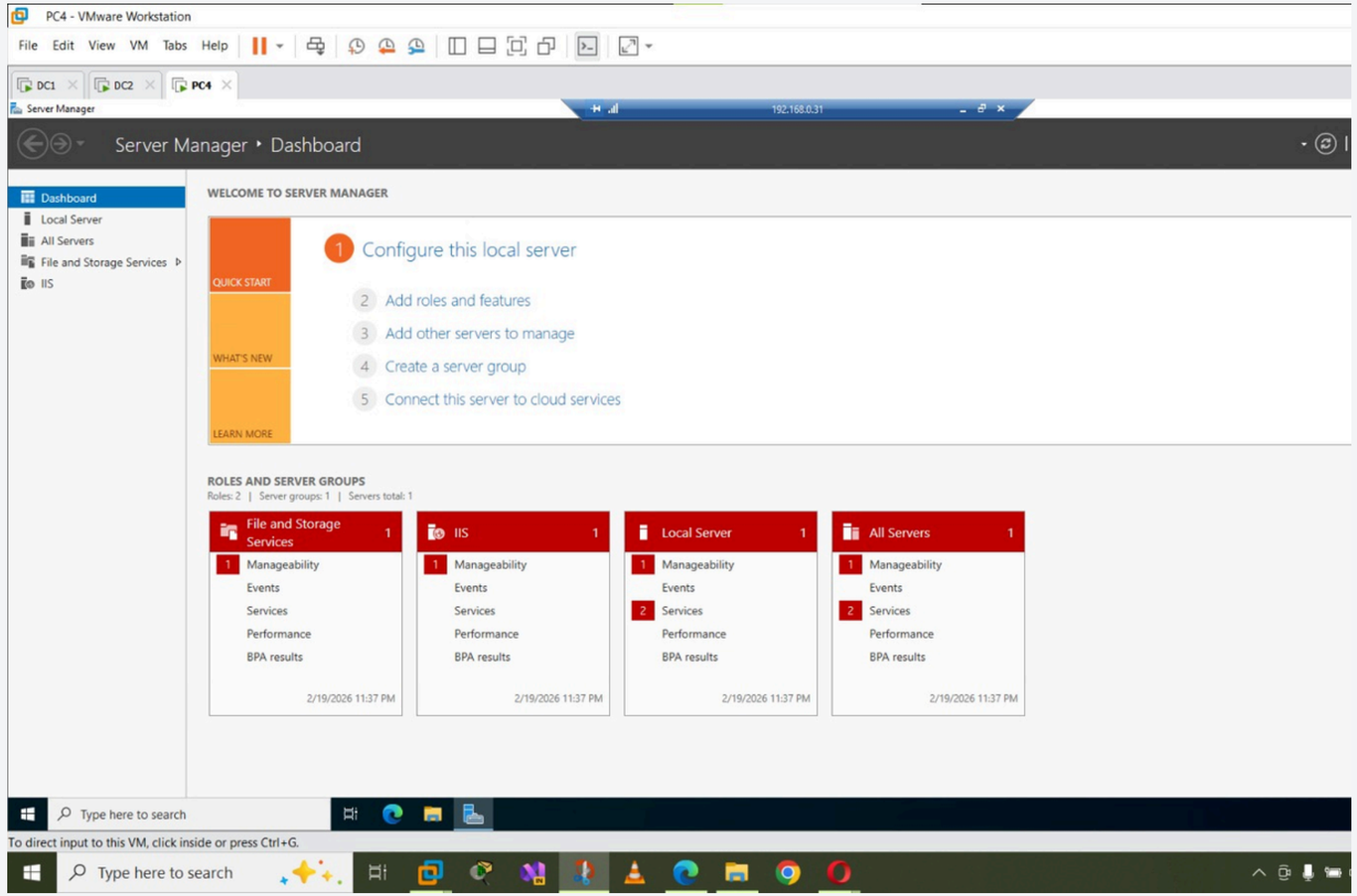
We implemented FTP for centralized log collection and backup management from the web server



RDP Configration

We implemented RDP for secure remote administration across the domain





Problems Encountered

Network Connectivity Issues – Problems connecting between sites or domain controllers caused by DNS errors or routing failures.

Domain Controller Failure – PDC failure leading to login disruptions and replication issues

Network Adapter Misconfiguration – Incorrect IP/DNS settings or a disabled network adapter

GPO Deployment Issues – Slow policy replication, incorrect security filtering, or conflicts between policies.

THANK YOU