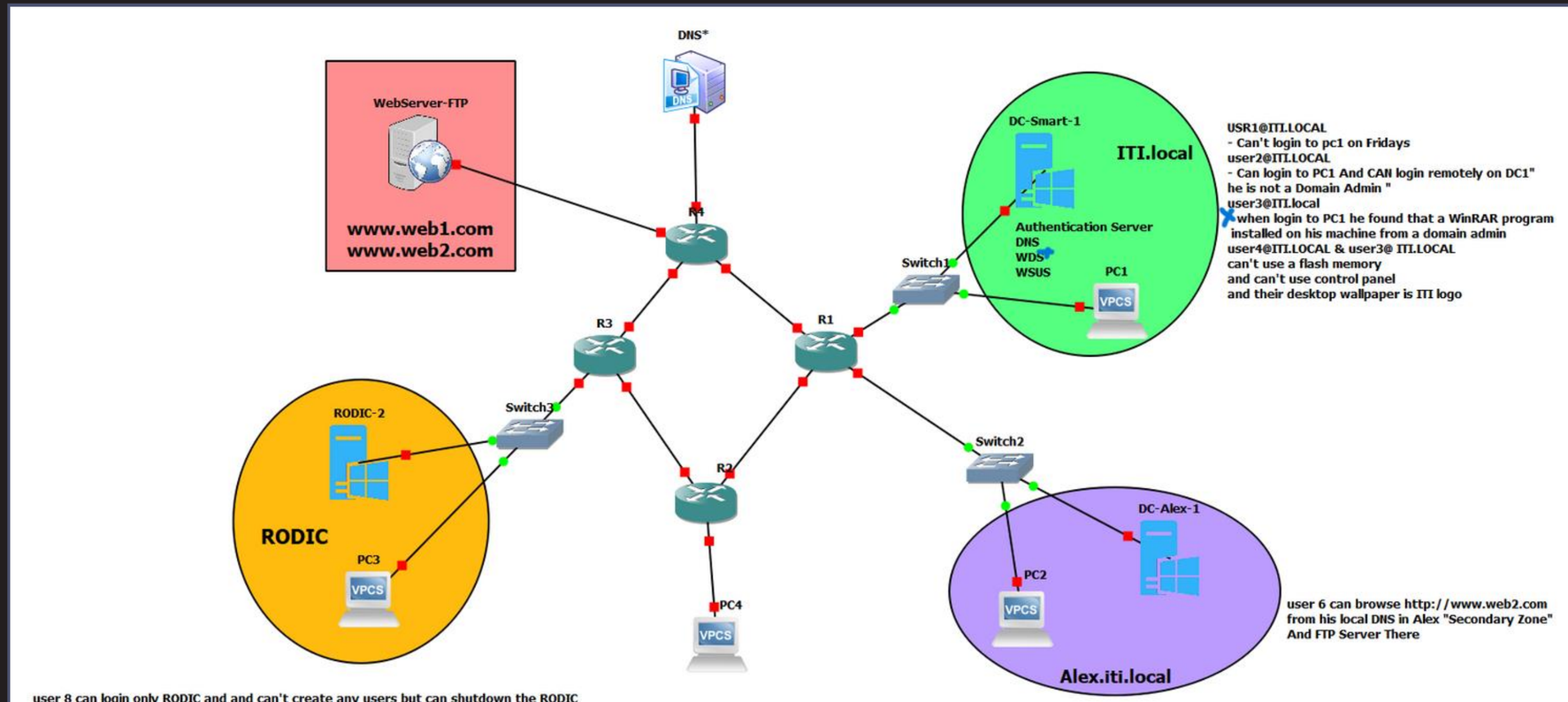
Information Technology Institute (ITI)

Windows Server

WINDOWS SERVER PROJECT

Ahmed Mohamed Ibrahim



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 can't use control panel
and their desktop wallpaper is ITI logo

user 6 can browse http://www.web2.com
from his local DNS in Alex "Secondary Zone"
And FTP Server There

user 8 can login only RODIC and and can't create any users but can shutdown the RODIC
while user9 can login to pc3 and can replicate his password to the RODIC

user 7 on pc4 can access remotly the webserver with an administrative privileges and
can create and delete users on HR Department in Alex.iti.com

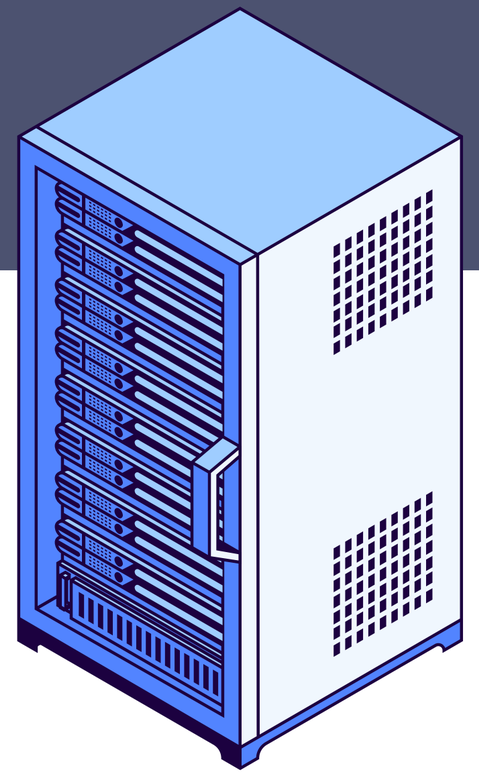
user 7 can browse http://www.web1.com from pc4 authoritatively from DNS*

PROJECT MAP

PROJECT OBJECTIVES

- Implement Secure User Management
- Enhance Access Control
- Enhance System Reliability
- Ensure Compliance with Security Policies
- Streamline User Creation and Deletion
- Optimize Resource Access
- Provide a Scalable Solution
- Restrict Unauthorized Actions
- Improve Remote Access Management

DC-SMART



Primary Role:

- Serves as the main branch for managing core services in the Windows Server environment.

Key Functions:

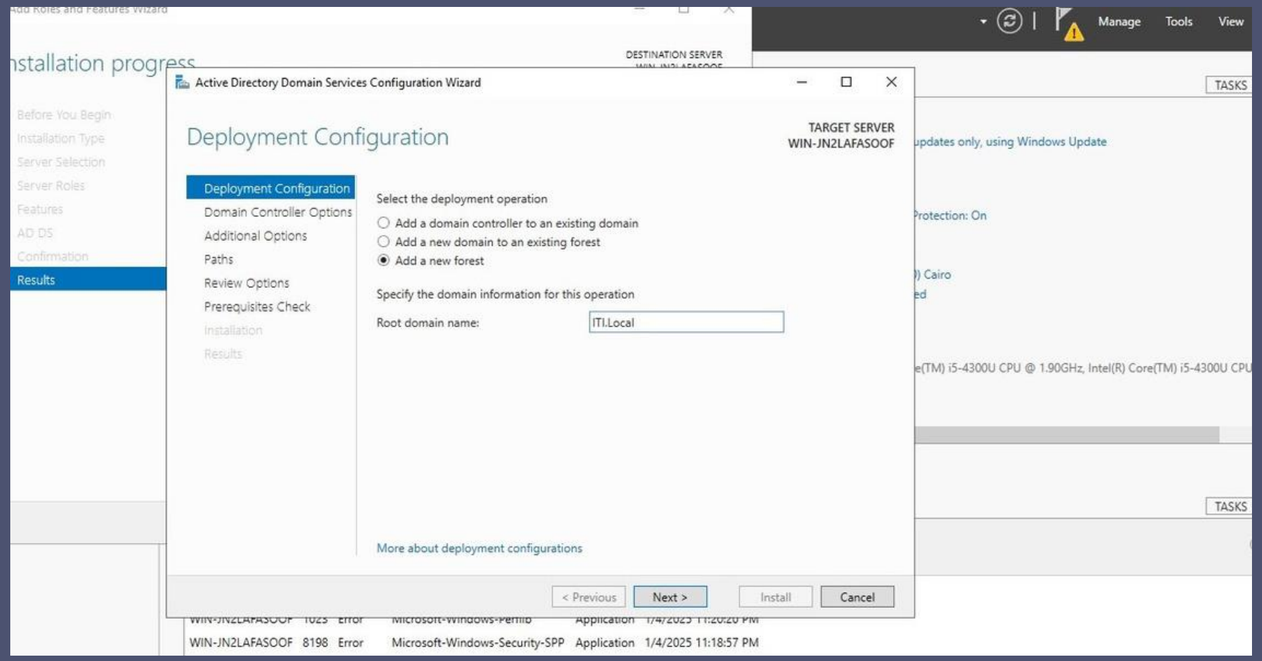
- Authentication Server.
- Windows Deployment Services (WDS).
- Windows Server Update Services (WSUS).
- Domain Name System (DNS).
- Device Management (PC1, VPCS).

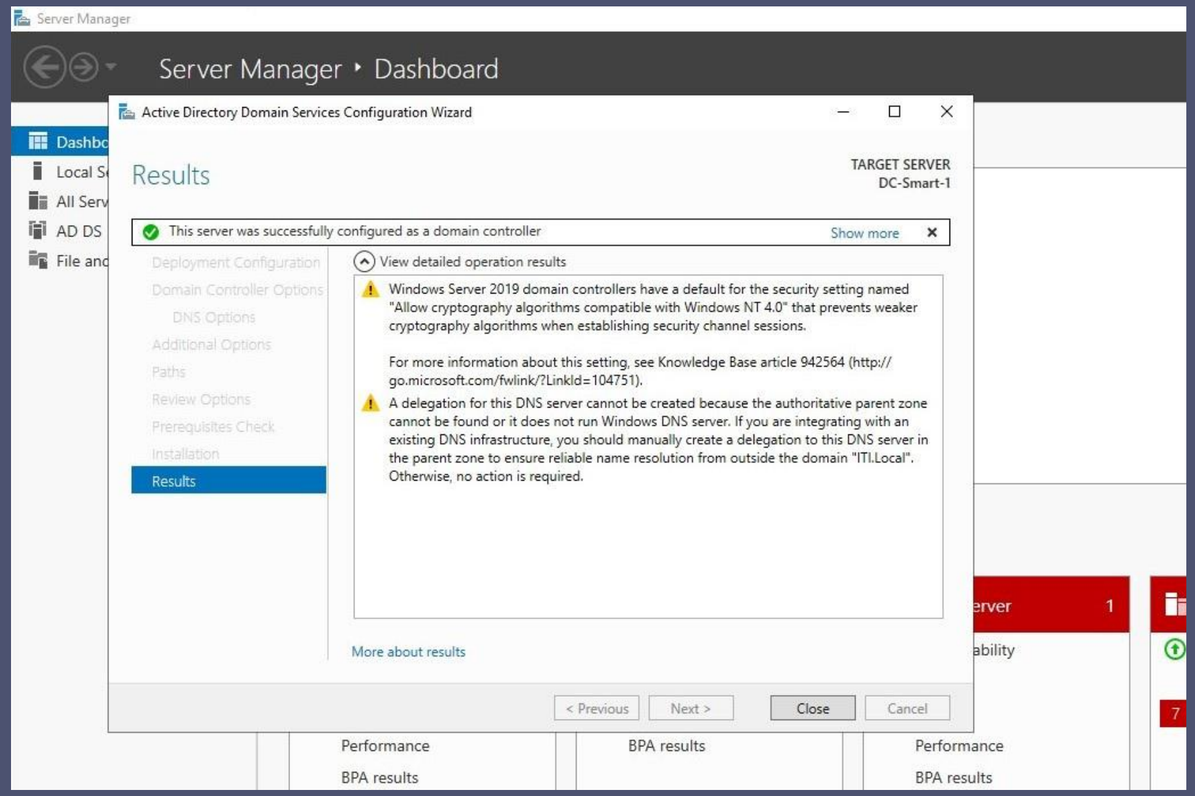
Key Features:

- Centralization.
- Security.
- Scalability.

DC-SMART

ACTIVE DIRECTORY DOMAIN SERVICES CONFIGURATION :

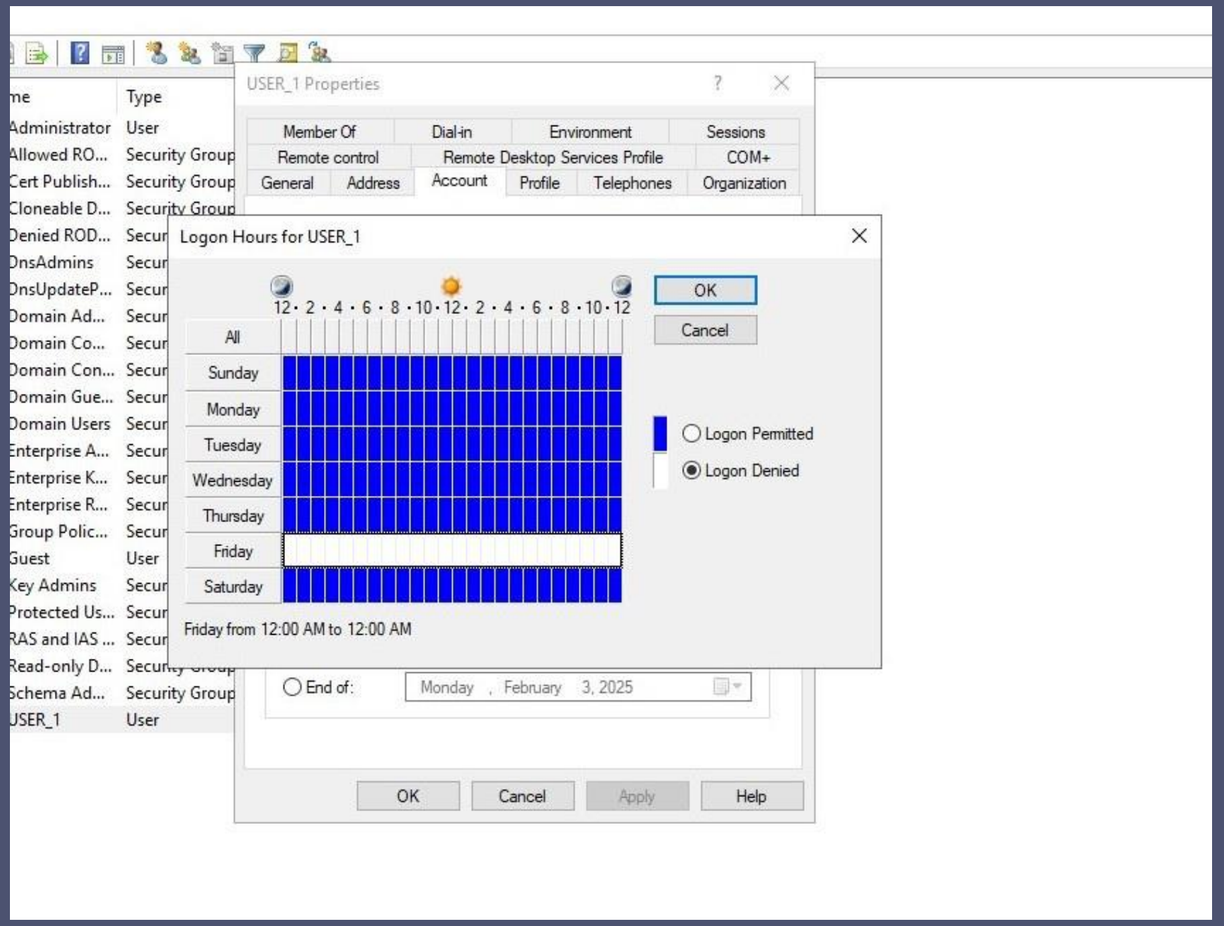




DC-SMART

USER1@ITI.LOCAL

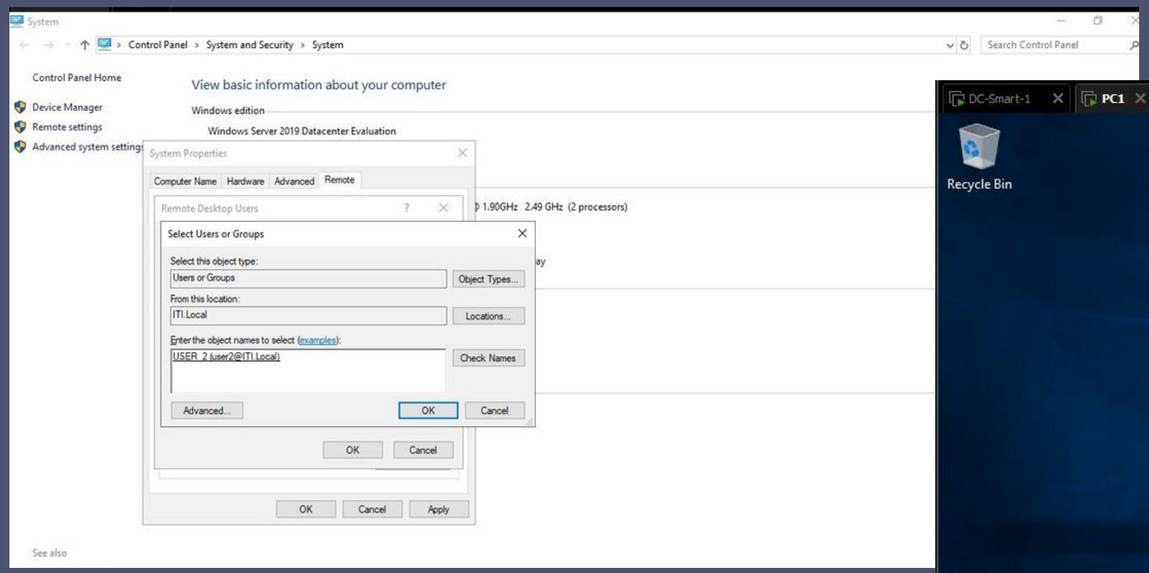
- Can’t login to PC1 on Fridays

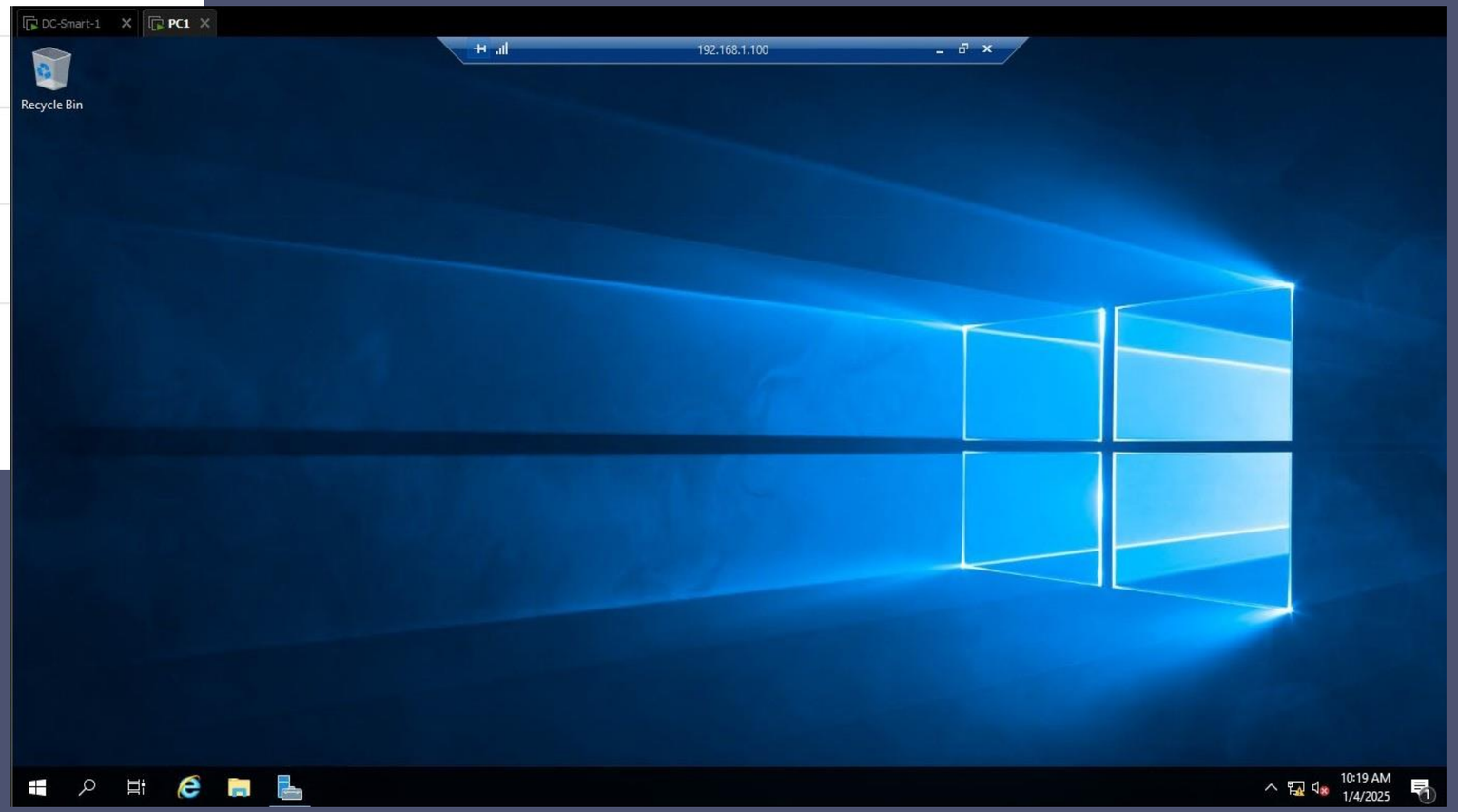


DC-SMART

USER2@ITI.LOCAL

Can login to PC1 and can login remotely in DC1 "He is not a Domain Admin".

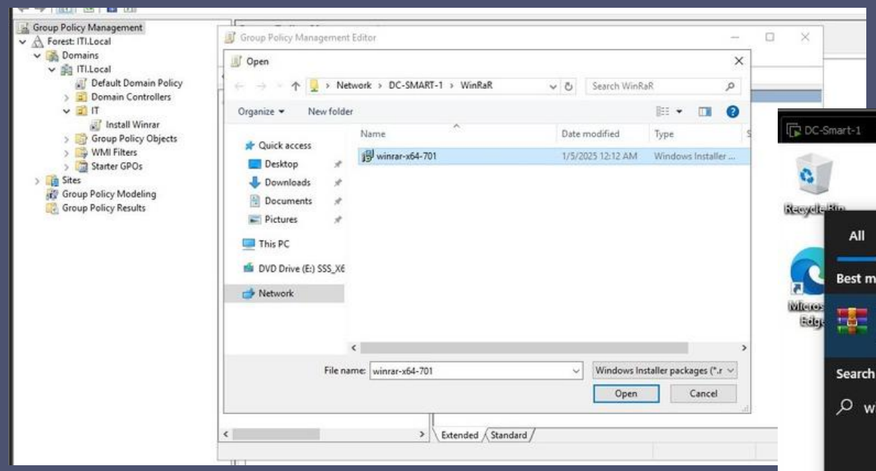


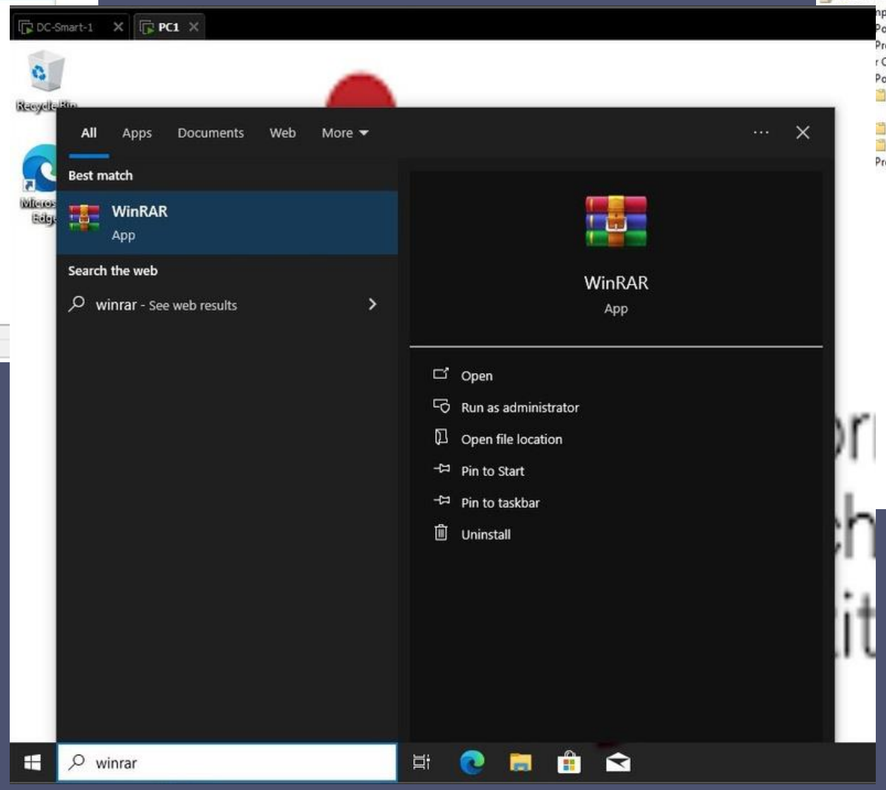


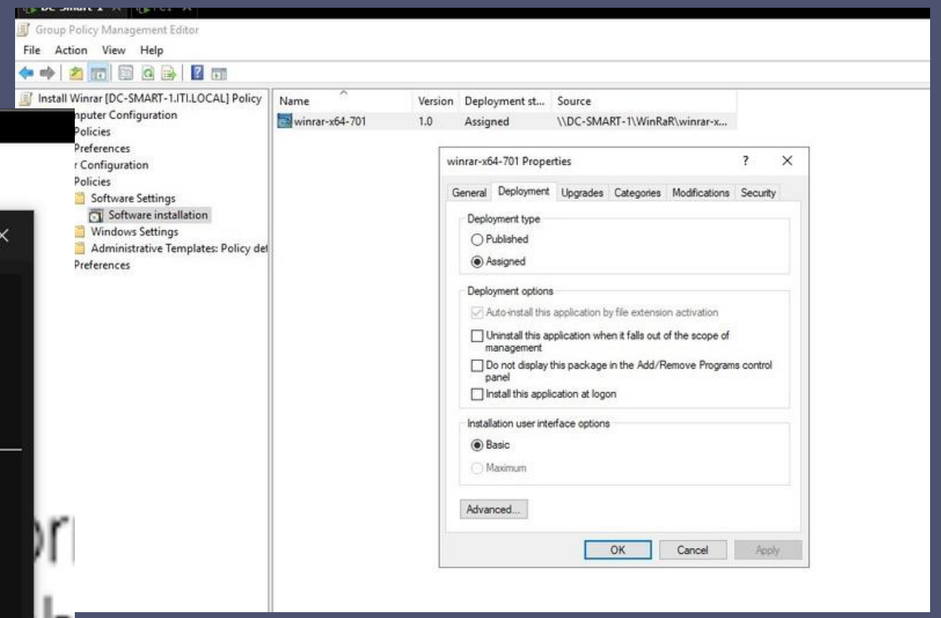
DC-SMART

USER3@ITI.LOCAL

When login to PC1 he found that a WinRAR program installed on his machine from a domain admin.

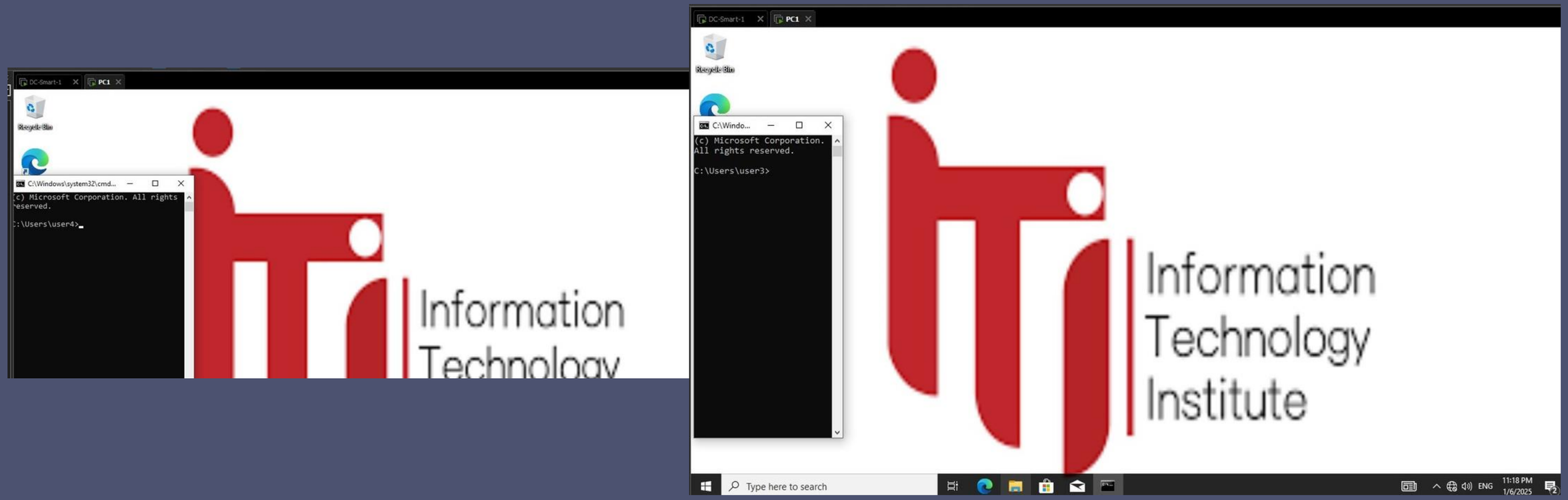






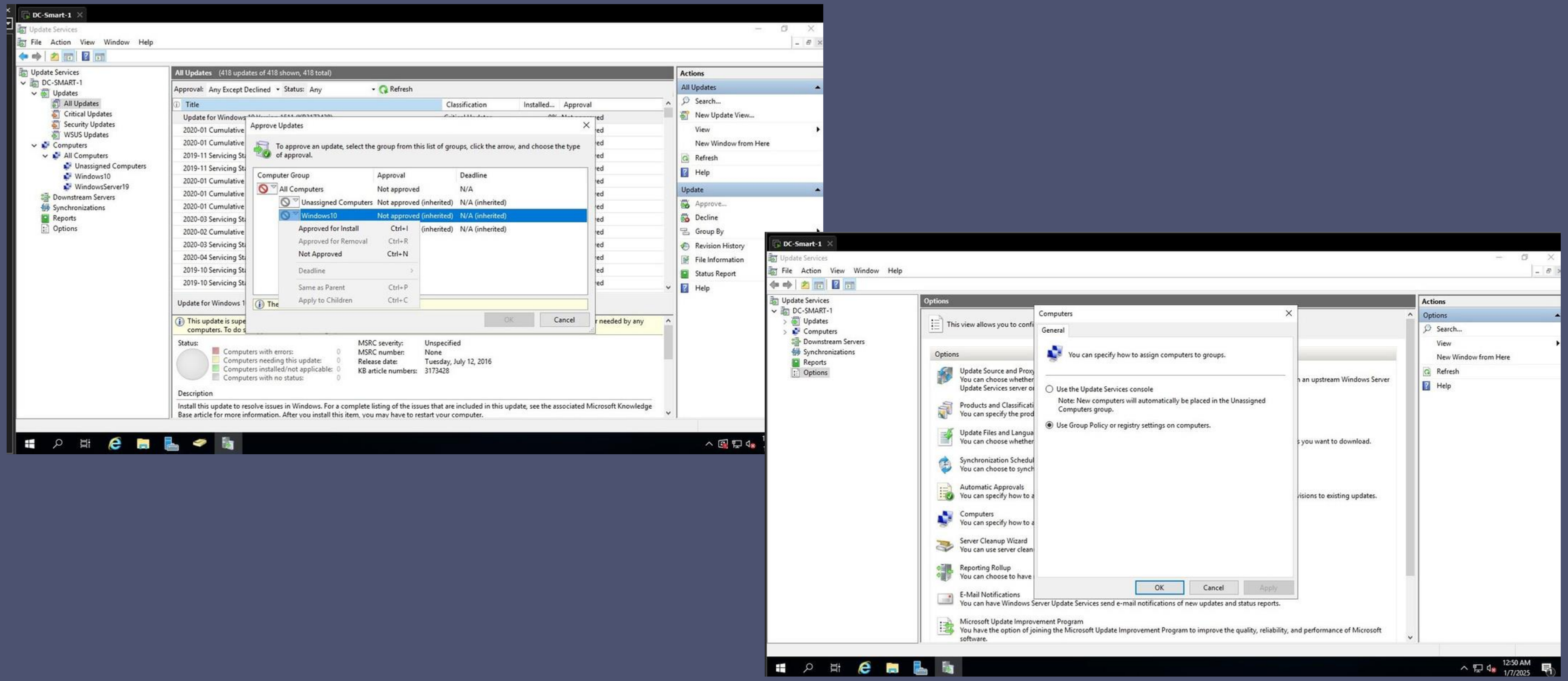
USER3@ITI.LOCAL & USER4@ITI.LOCAL

Their desktop wallpaper is ITI Logo.



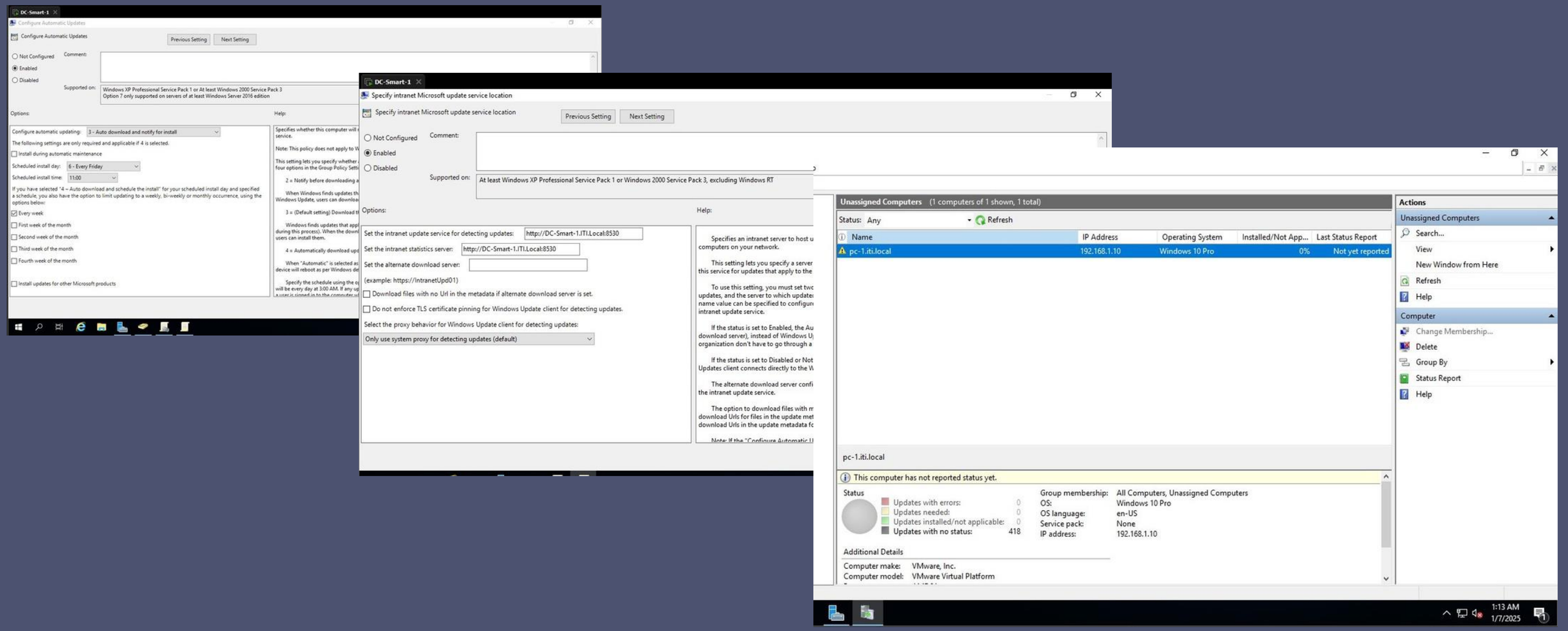
DC-SMART

WSUS CONFIGURATION



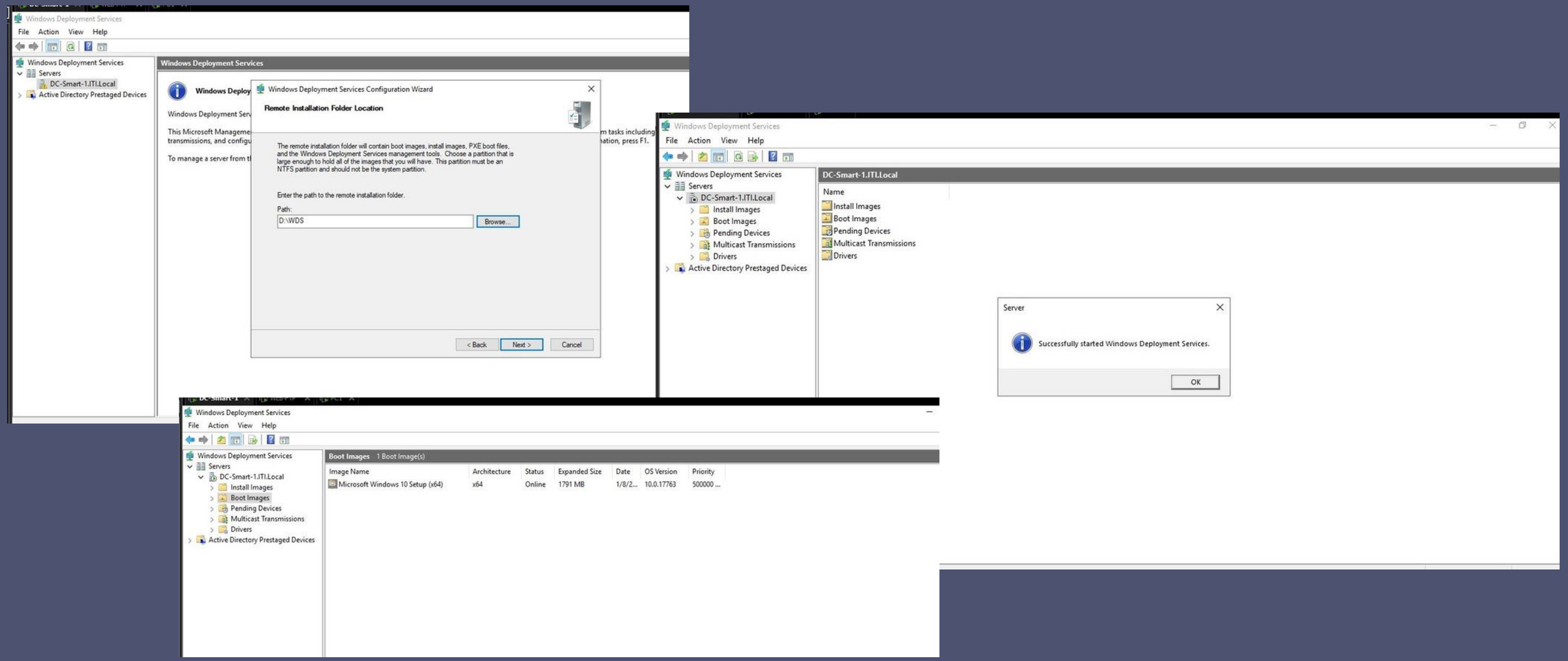
DC-SMART

WSUS CONFIGURATION FOR PCS

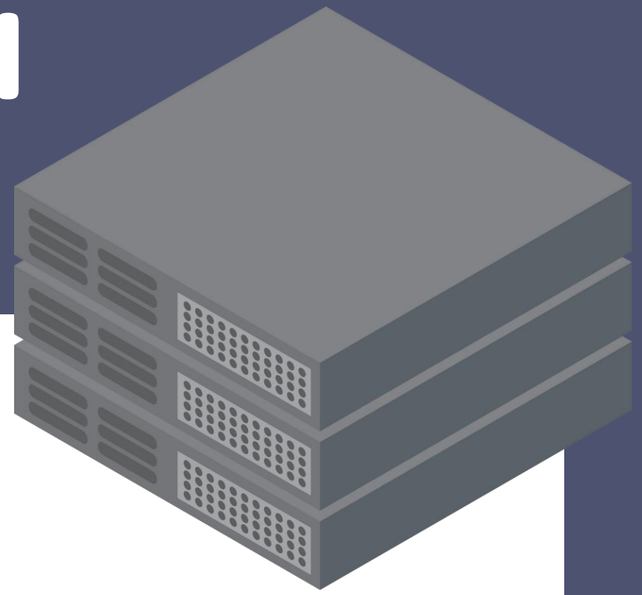


DC-SMART

WDS CONFIGURATION



RODC (READ-ONLY DOMAIN CONTROLLER)



Primary Role:

- RODC is a Read-Only Domain Controller (RODC), meaning it contains a read-only copy of the Active Directory database.
- It is located in the Sohag site and serves as a secondary domain controller to ensure service continuity in case of a disconnect from the primary server (DC-Smart).

Key Functions:

- Ensuring service continuity.
- Improving performance.
- Enhancing security.
- Managing local users.

Key Features:

- Read-Only, Autonomy, Integration with DC-Smart.

Benefits:

- Improved performance, Enhanced security, Ensuring service continuity.

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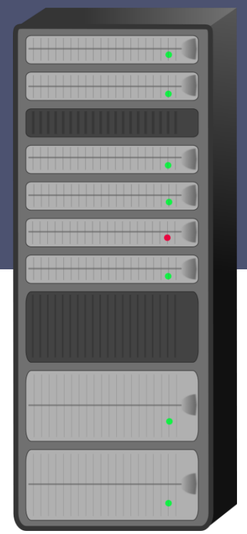

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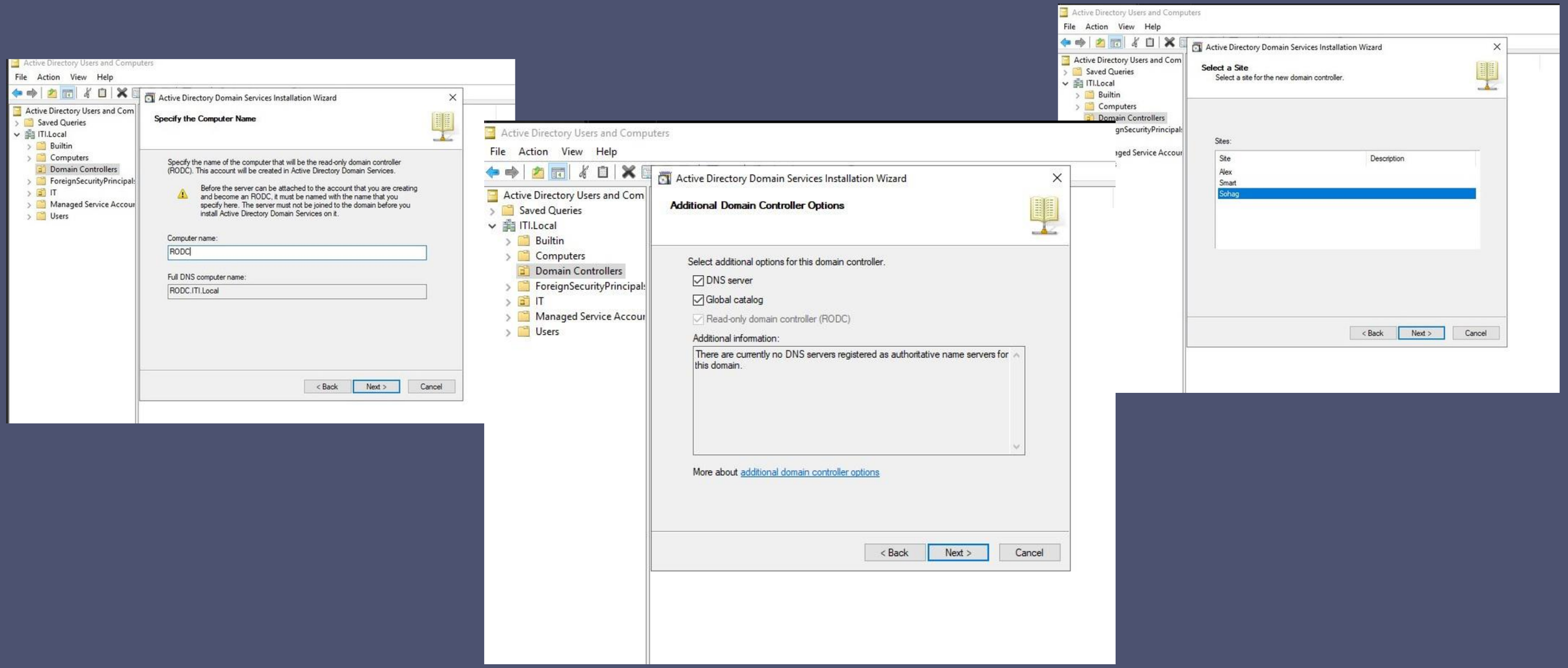
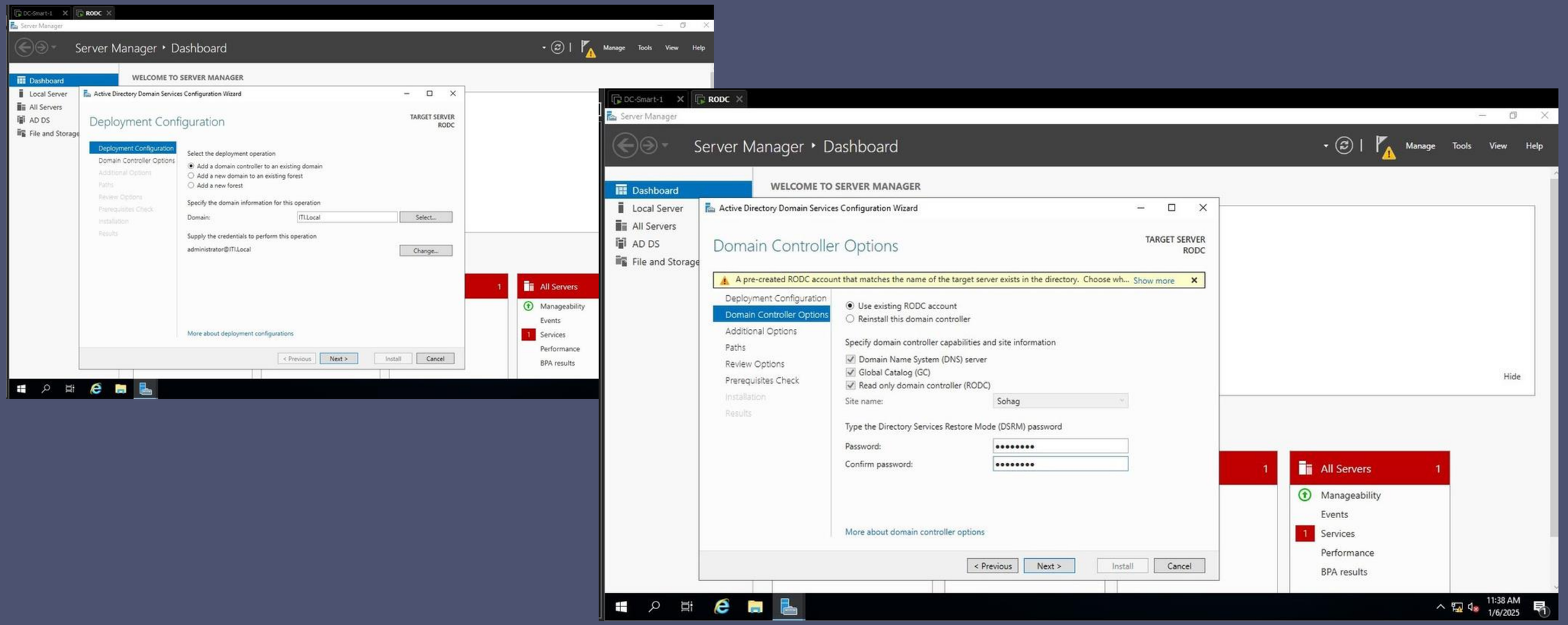
RODC CONFIGURATION



RODC

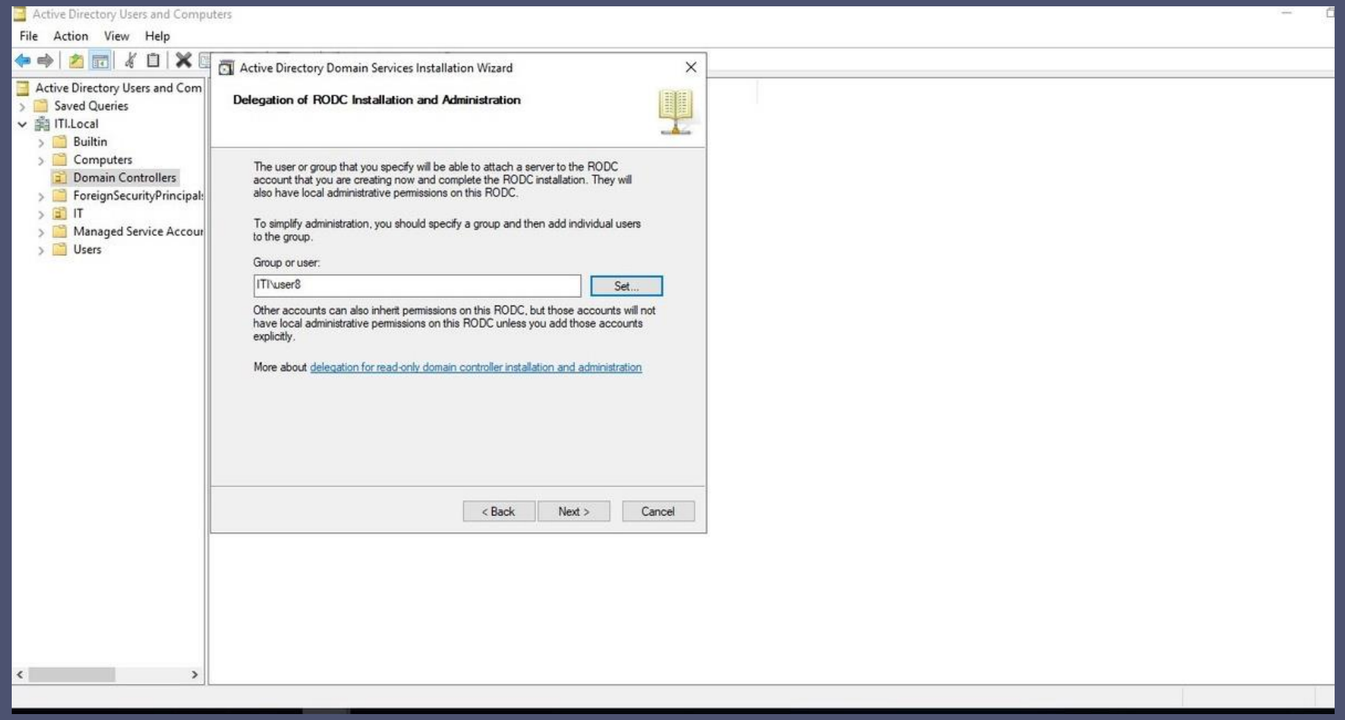
RODC CONFIGURATION



RODC

USER8 IN RODC

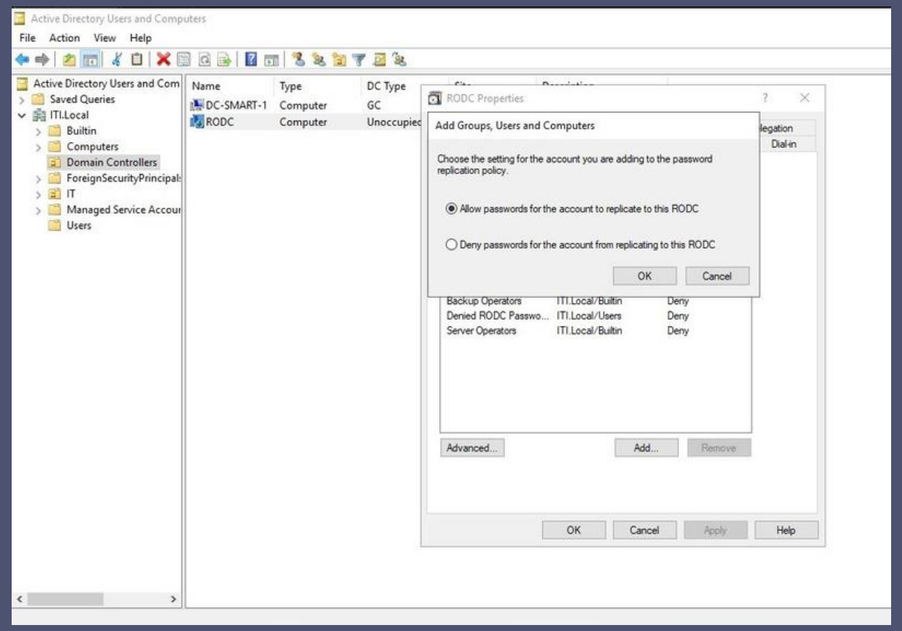
Can login only RODC and can't create any users but can shutdown the RODC.

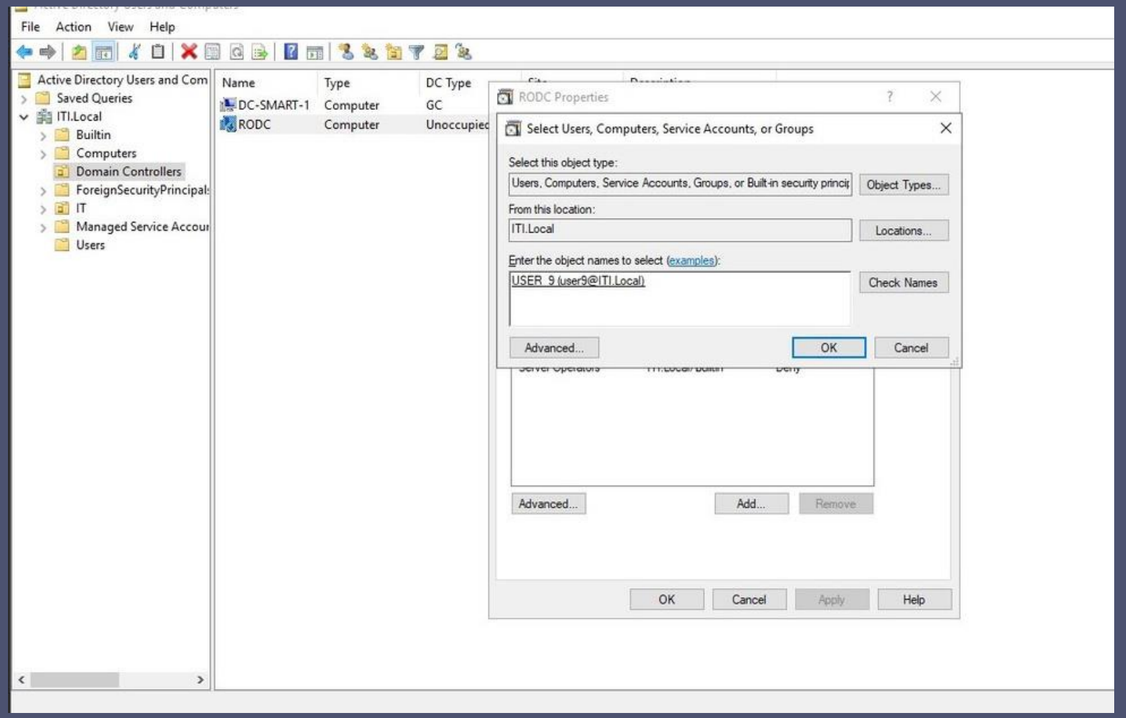


RODC

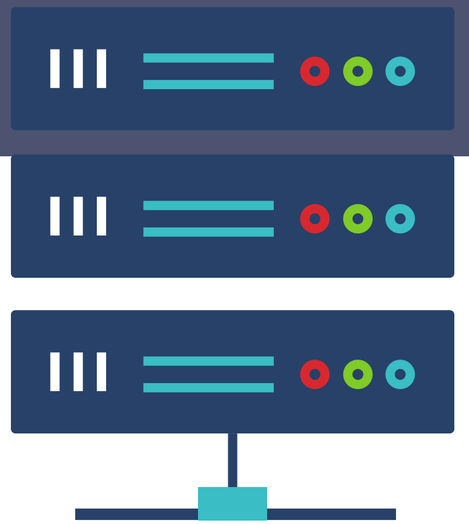
USER9 IN RODC

Can login to PC3 and can replicate his password to the RODC.





DC-ALEX



Primary Role:

- Serves as a Child Domain Controller in the Alex site.
- Has domain: Alex.ITI.Local

Key Functions:

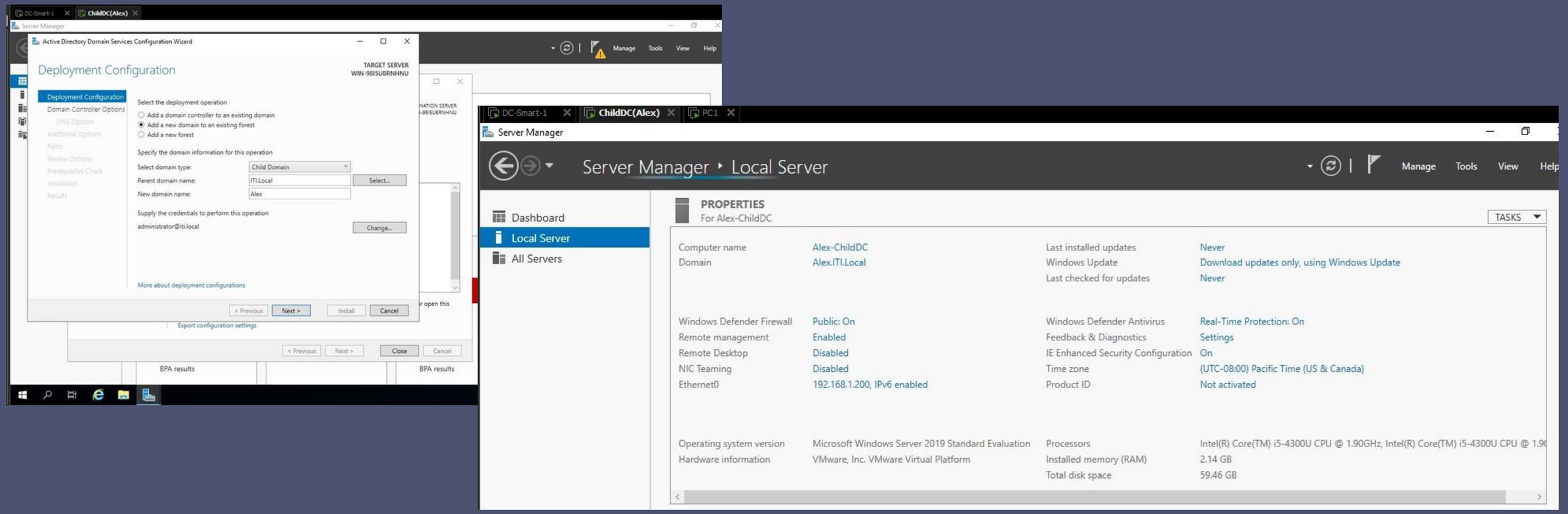
- Local User and Resource Management.
- Integration with Parent Domain.
- Performance Improvement.
- Enhanced Security.

Key Features:

- Local Management.
- Parent Domain Integration.
- Autonomy.

DC-ALEX

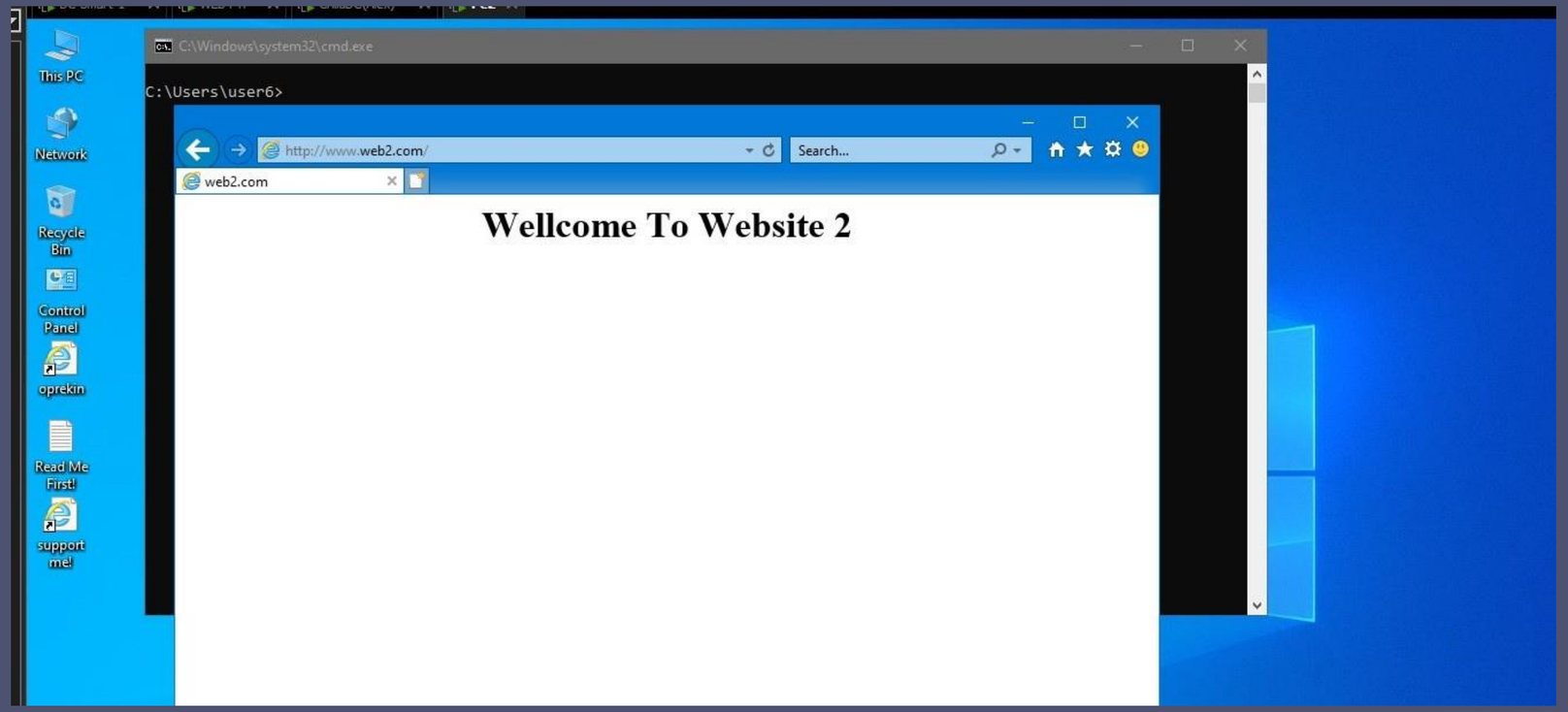
CHILD DOMAIN CONFIG :



DC-ALEX

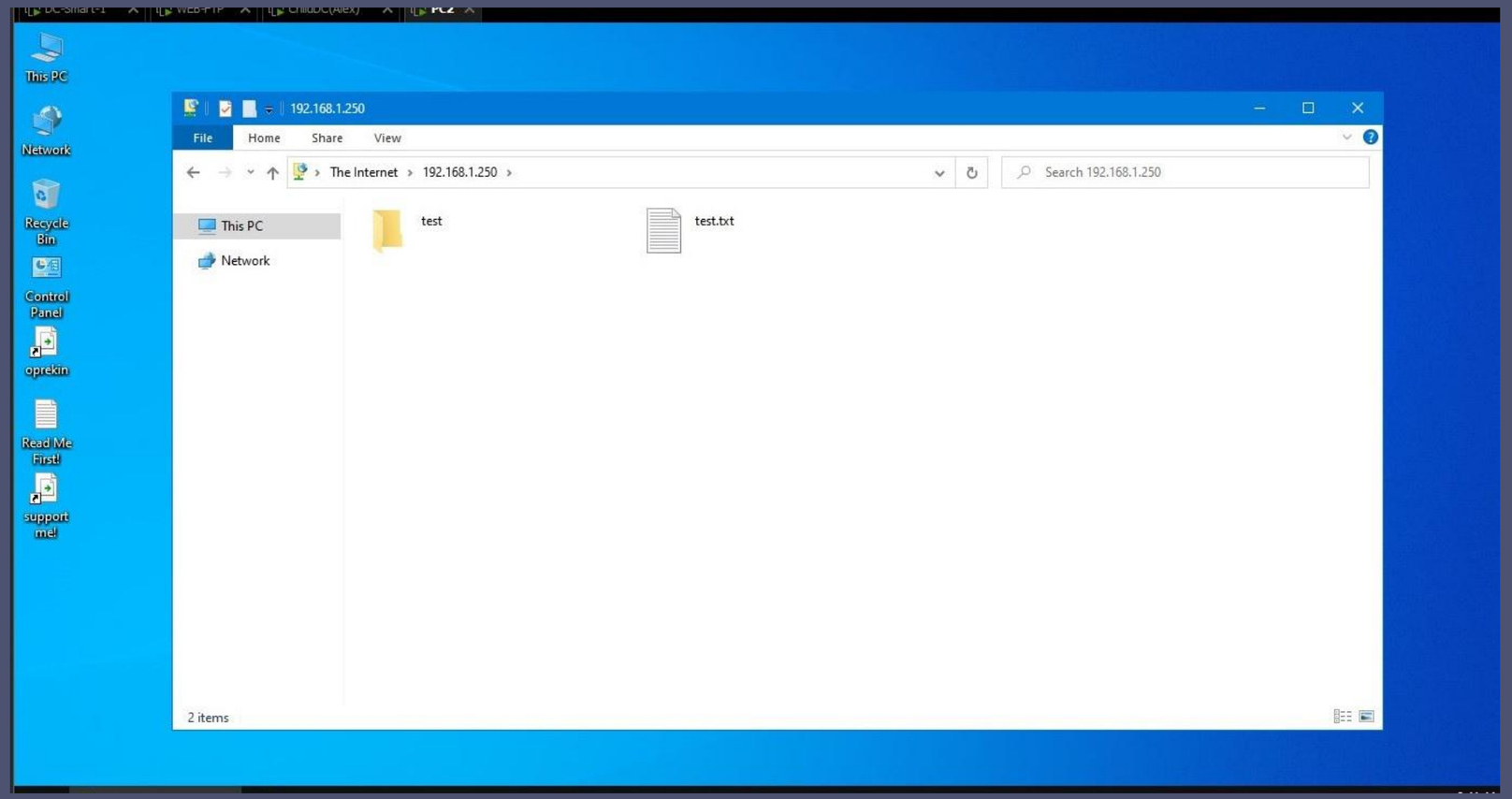
USER6@ALEX.ITI.LOCAL

Can browse **http://www.web2.com** from his local DNS in Alex "Secomdary Zone" .



USER6@ALEX.ITI.LOCAL

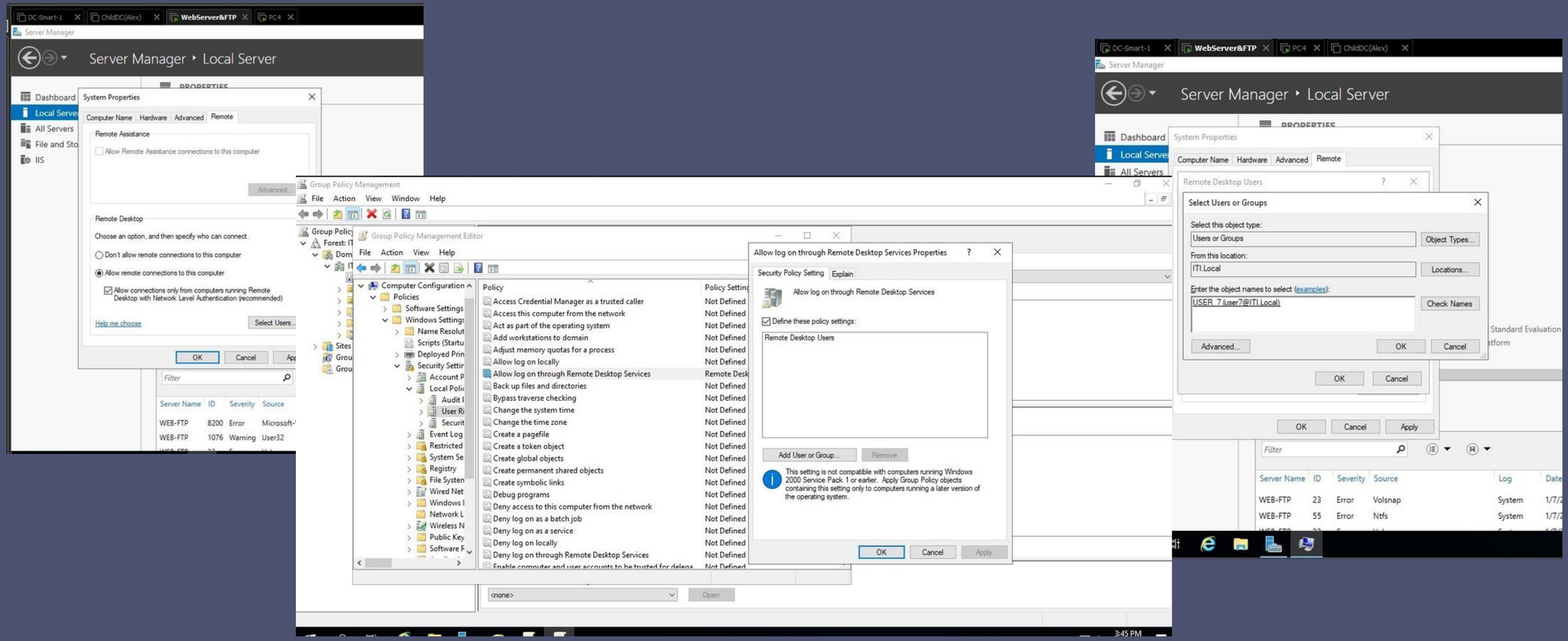
Can browse **FTP Server** .



DC-ALEX

USER7@ALEX.ITI.LOCAL

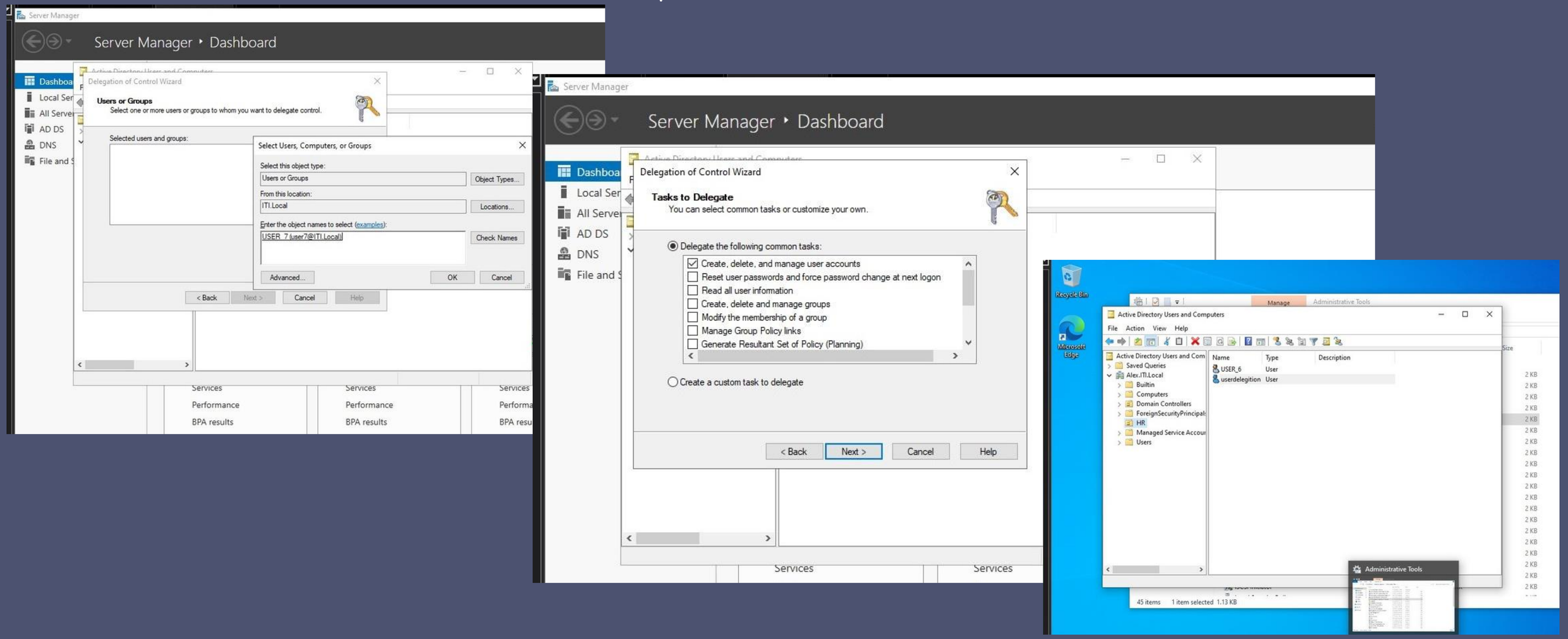
Can access remotly the webserver with an administrative privileges.



DC-ALEX

USER7@ALEX.ITI.LOCAL

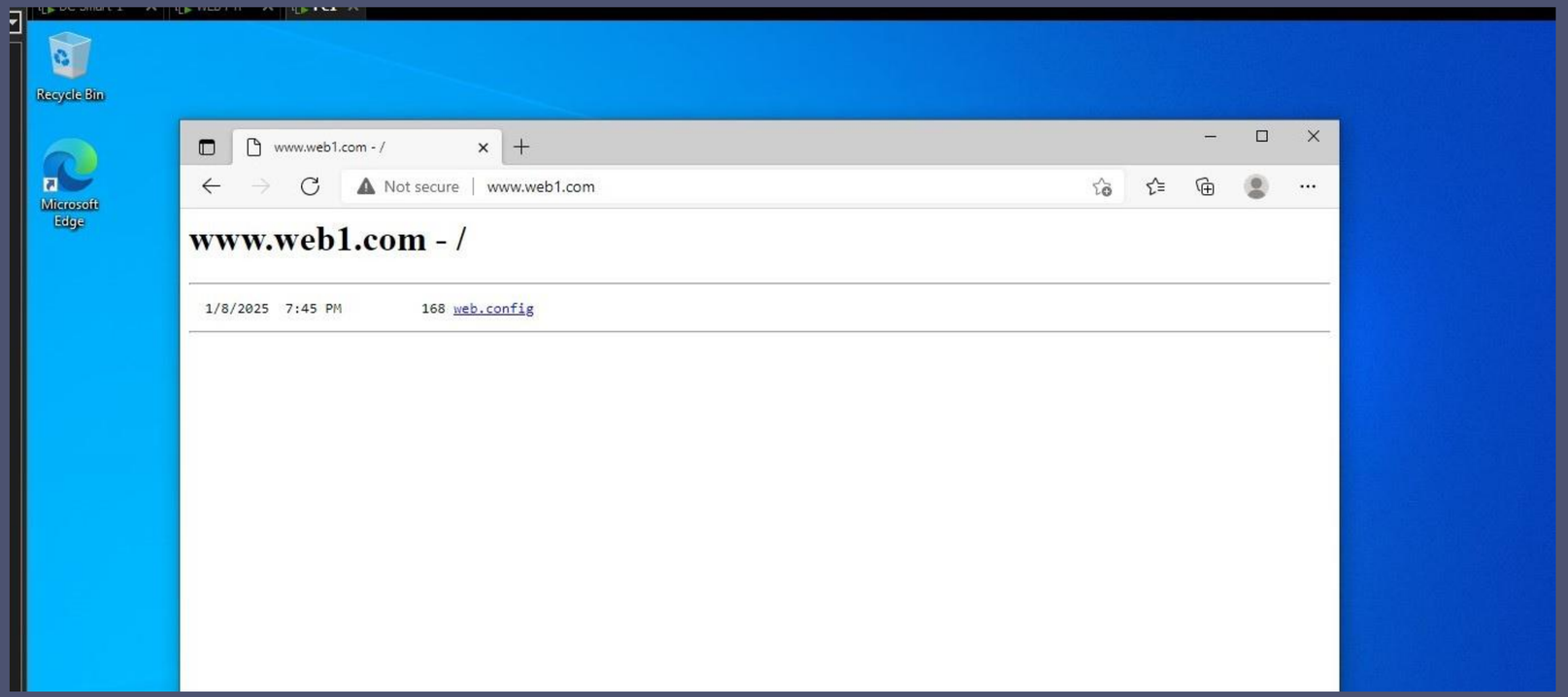
Can browse http://www.web1.com .



DC-ALEX

USER7@ALEX.ITI.LOCAL

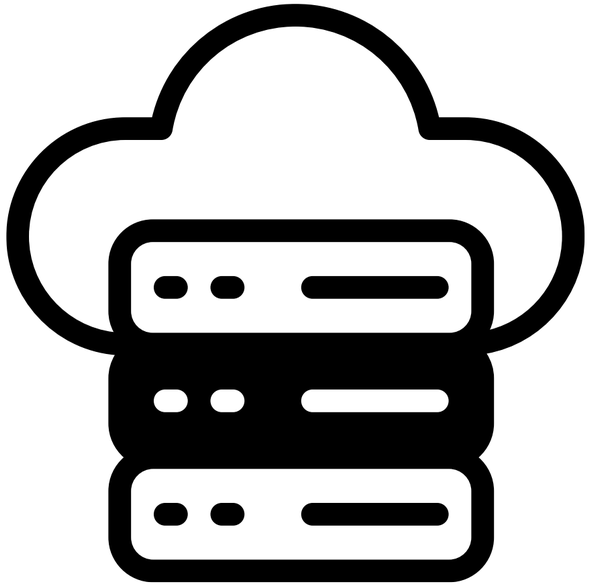
Can browse **http://www.web1.com** .



WEB & FTP

Primary Role:

- Hosts websites (www.web1.com and www.web2.com) and provides FTP services.



Key Functions:

- Web Hosting.
- FTP Services (File Transfer).
- Content Management.
- Enhancing Security.

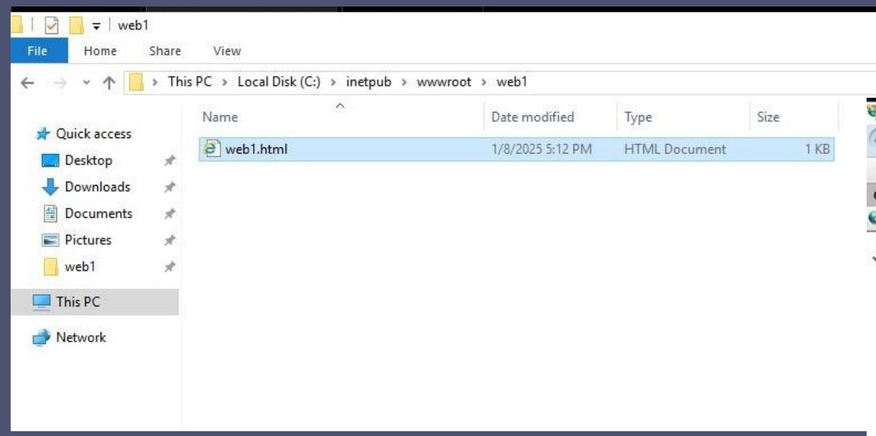
Key Features:

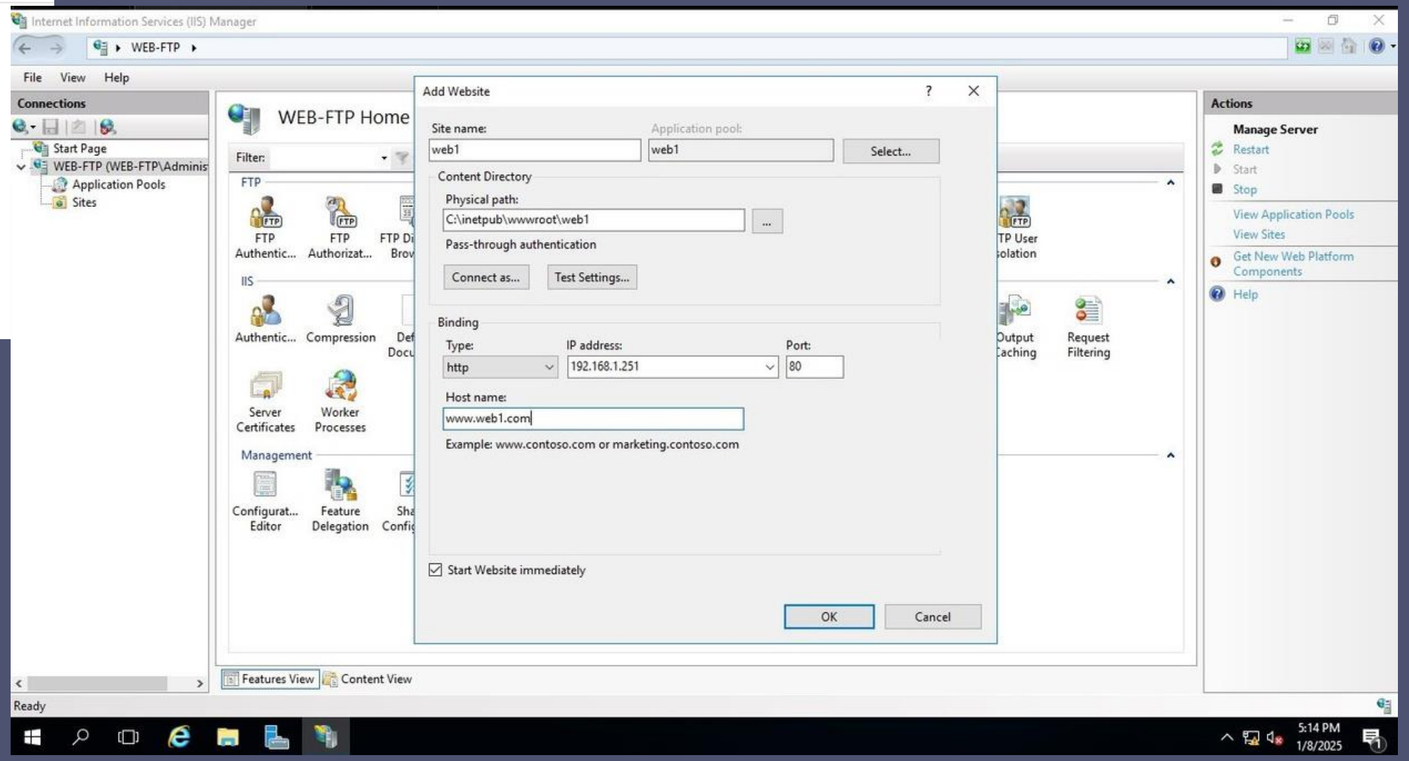
- Multi-Hosting.
- Integrated FTP Services.
- Security.

WEB & FTP

WEB 1

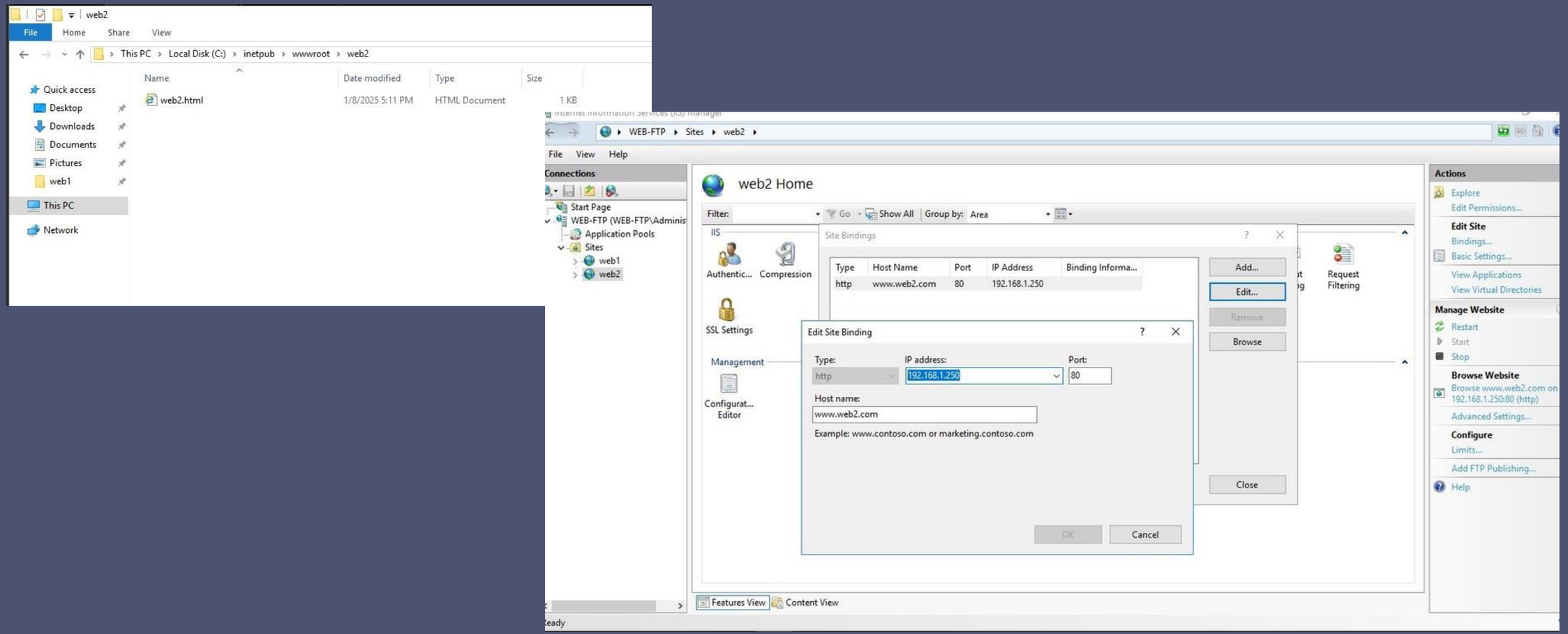
HTTP://WWW.WEB1.COM





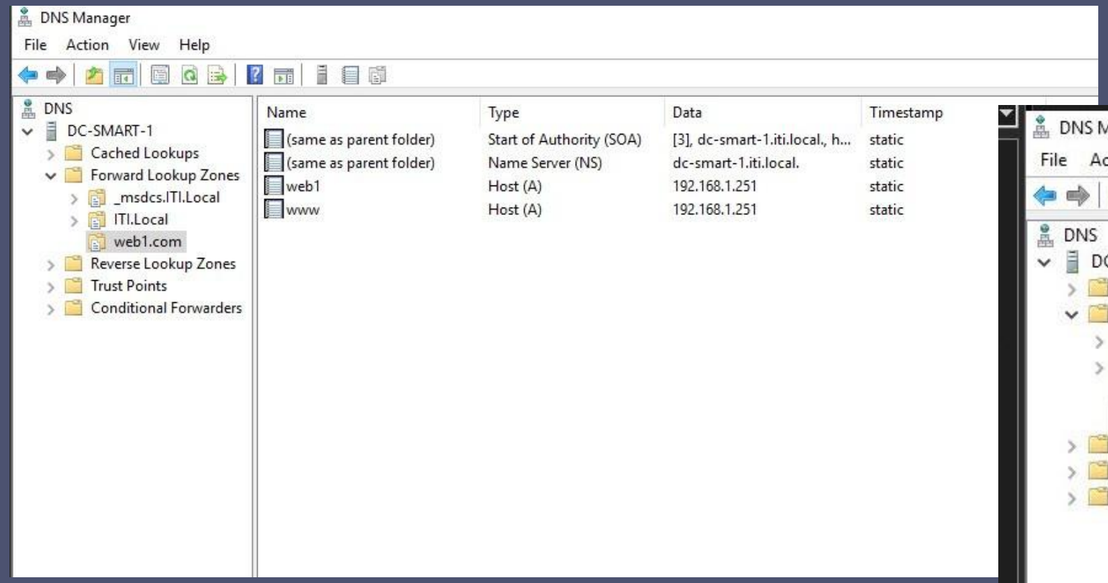
WEB 2

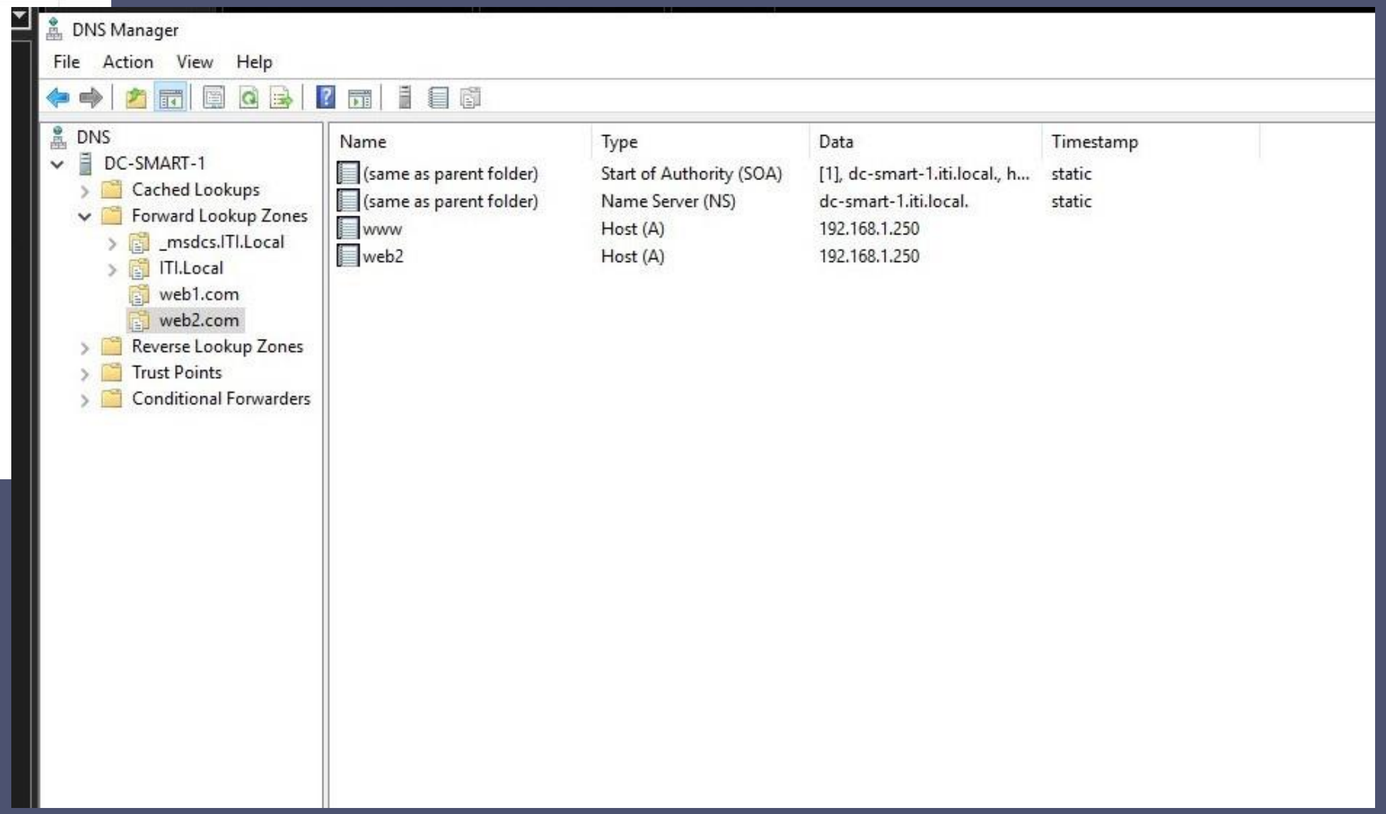
HTTP://WWW.WEB2.COM



CREATE PRIMARTY ZONES

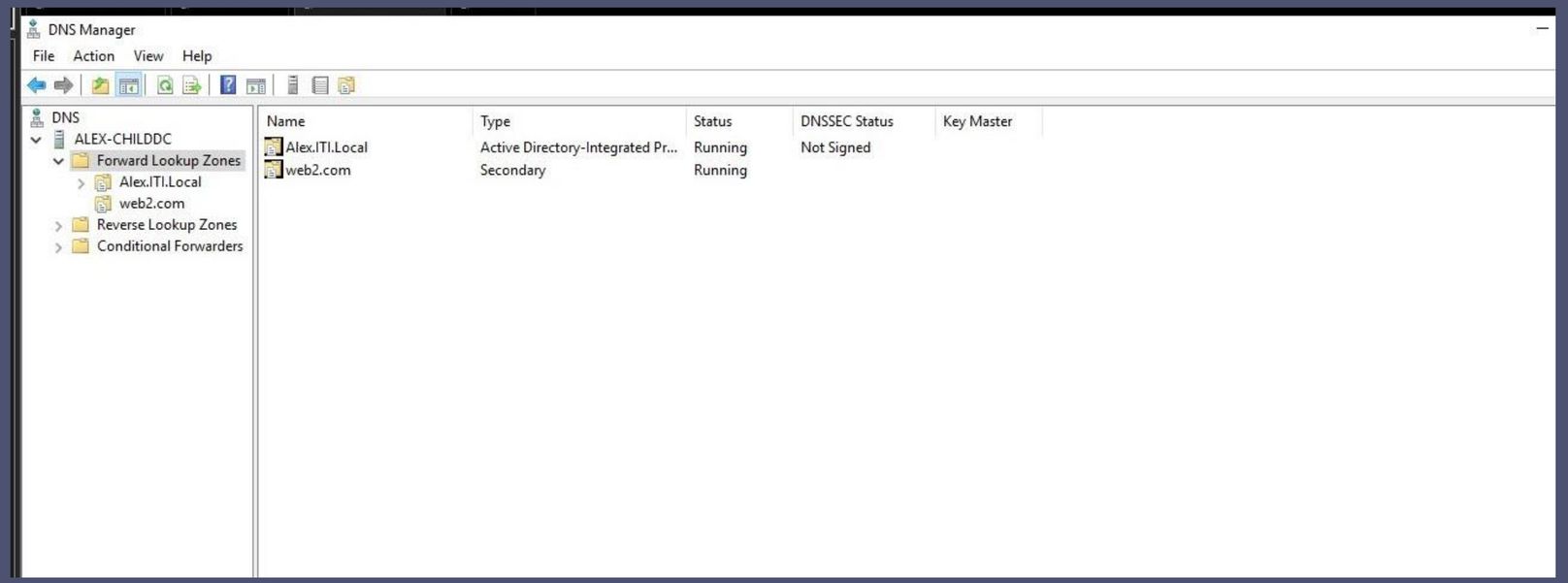
In DC-Smart (ITI.Local)



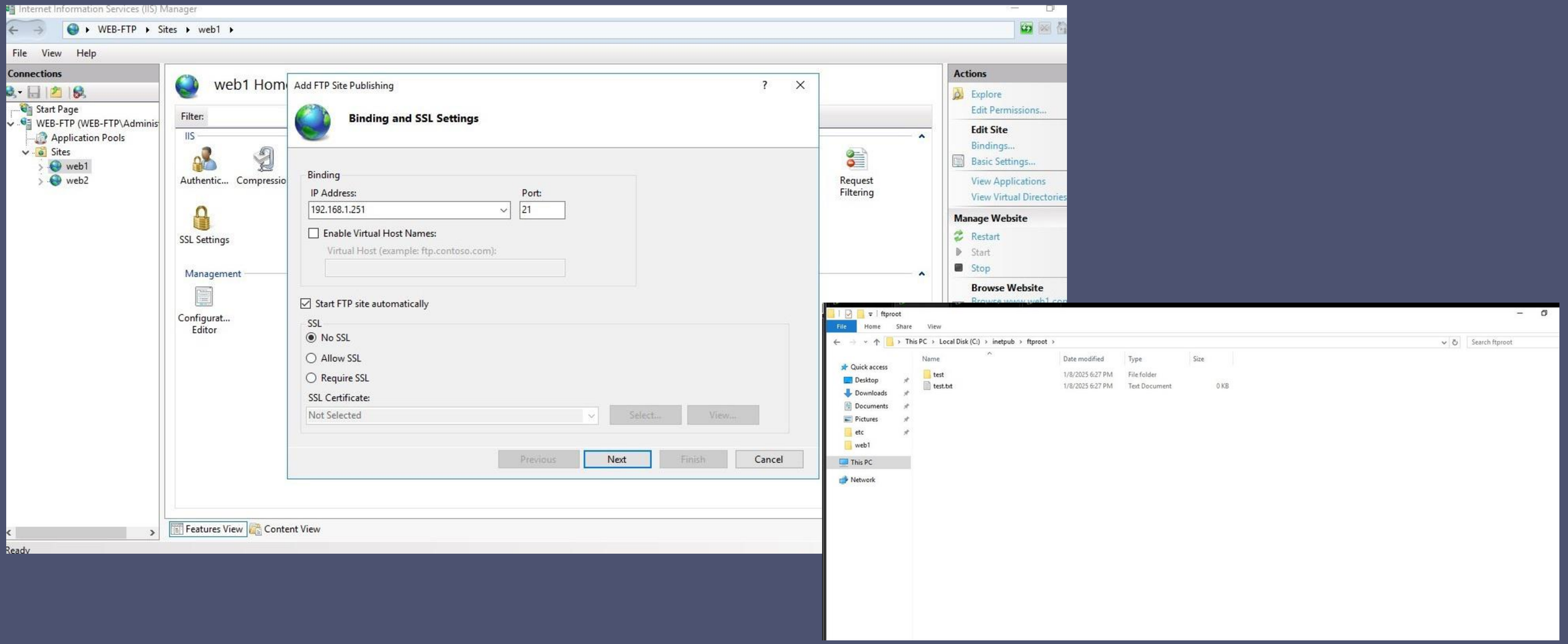


CREATE SECONDARY ZONES

In DC-Alex (Alex.ITI.Local)



FTP SERVICE


Internet Information Services (IIS) Manager
WEB-FTP ▸ Sites ▸ web1 ▸
File View Help
Connections
Start Page
WEB-FTP (WEB-FTP\Adminis
Application Pools
Sites
web1
web2
web1 Hom
Filter:
IIS
Authentic...
Compressio
SSL Settings
Management
Configurat... Editor
Request Filtering
Features View
Content View
Ready
Add FTP Site Publishing
Binding and SSL Settings
Binding
IP Address:
192.168.1.251
Port:
21
Enable Virtual Host Names:
Virtual Host (example: ftp.contoso.com):
Start FTP site automatically
SSL
No SSL
Allow SSL
Require SSL
SSL Certificate:
Not Selected
Select...
View...
Previous
Next
Finish
Cancel
Actions
Explore
Edit Permissions...
Edit Site
Bindings...
Basic Settings...
View Applications
View Virtual Directories
Manage Website
Restart
Start
Stop
Browse Website
ftproot
File Home Share View
This PC › Local Disk (C:) › inetpub › ftproot ›
Search ftproot
Quick access
Desktop
Downloads
Documents
Pictures
etc
web1
This PC
Network
Name
Date modified
Type
Size
test
1/8/2025 6:27 PM
File folder
test.txt
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Thank You