

COC3

SET-UP COMPUTER SERVER

WINDOWS SERVER(Network OS)

- Configuration
 - Active Directory Domain Services (ADDS)
 - User Accounts
 - Domain Name System (DNS)
 - Organizational Unit
 - Dynamic Host Configuration Protocol (DHCP)
 - IP Address (Static or manually input)

Note:

COC2: = the IP Address is from Router
(Peer to peer network)

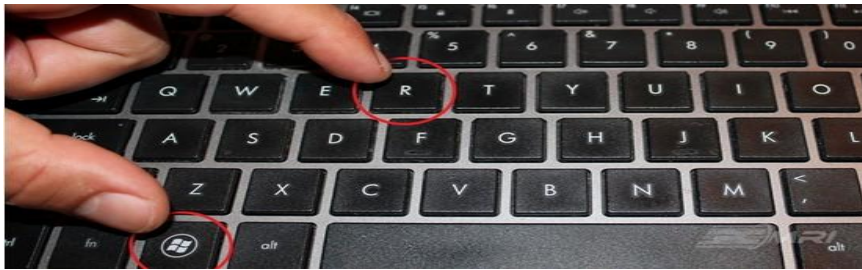
COC3: = the IP Address is from Server
(Server Base Network)

STEPS & TIPS

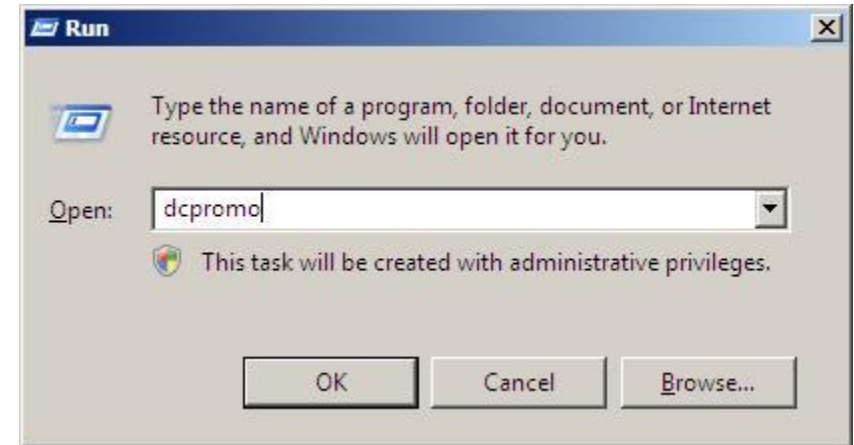
- First things to do/remember or the Steps
 - ✓ Check the COMPUTER NAME of PC
 - ☐ Make it simple and EASY to remember.
e.g. SERVER_PC
 - ✓ Check the IP ADDRESS of PC
 - ☐ Make it Static
 - ☐ Go to Network Settings, Network & Sharing Center,
 - ✓ Check the DHCP of the Router
 - ☐ Turn off or Disable
(Remember you are using SERVER BASE NETWORK now)
- NOTE: WRITE DOWN ALL INPUTS SUCH AS:
- ✓ COMPUTER NAME (SERVER, CLIENT & LAPTOP)
 - ✓ IP ADDRESS (SERVER, CLIENT & LAPTOP)
 - ✓ WORKGROUP (SAME)
 - ✓ PASSWORD
 - ✓ NEW IP ADDRESS
 - ✓ ORGANIZATIONAL UNIT or OU
 - ✓ USER ACCOUNT
 - ✓ FOLDER NAME
 - ✓ ETC.

Active Directory Domain Services (ADDS)

- Second
 - ☐ Press and hold the WIN Logo + R



- ☐ On Windows RUN
 - Type DCPROMO or dcpromo

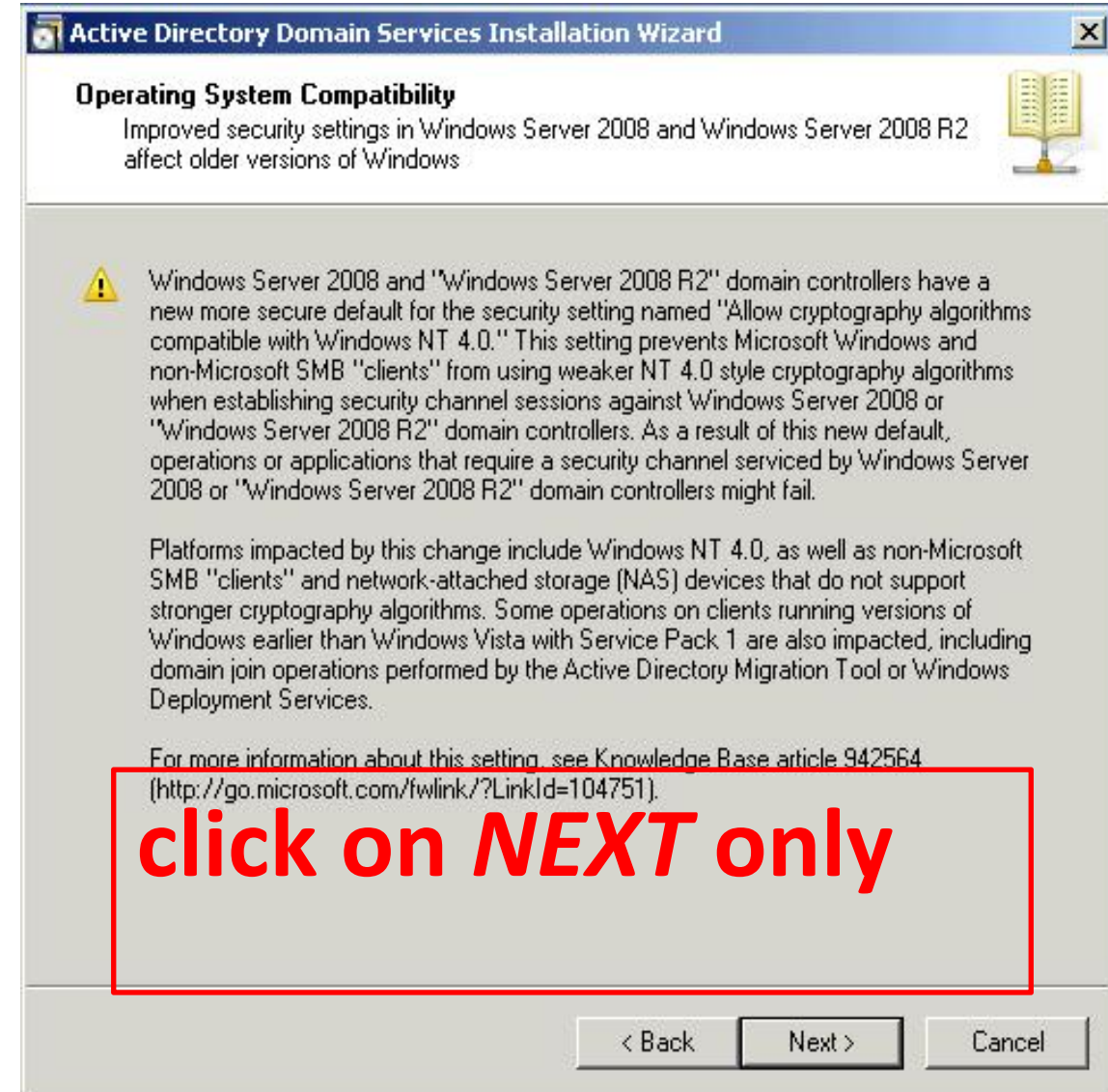


NOTE: Before you proceed on DCPROMO you must turn off or change in disable mode of the ROUTER. Next input or ENTER a STATIC IP ADDRESS on the NETWORK SETTINGS.

Active Directory Domain Services (ADDS)

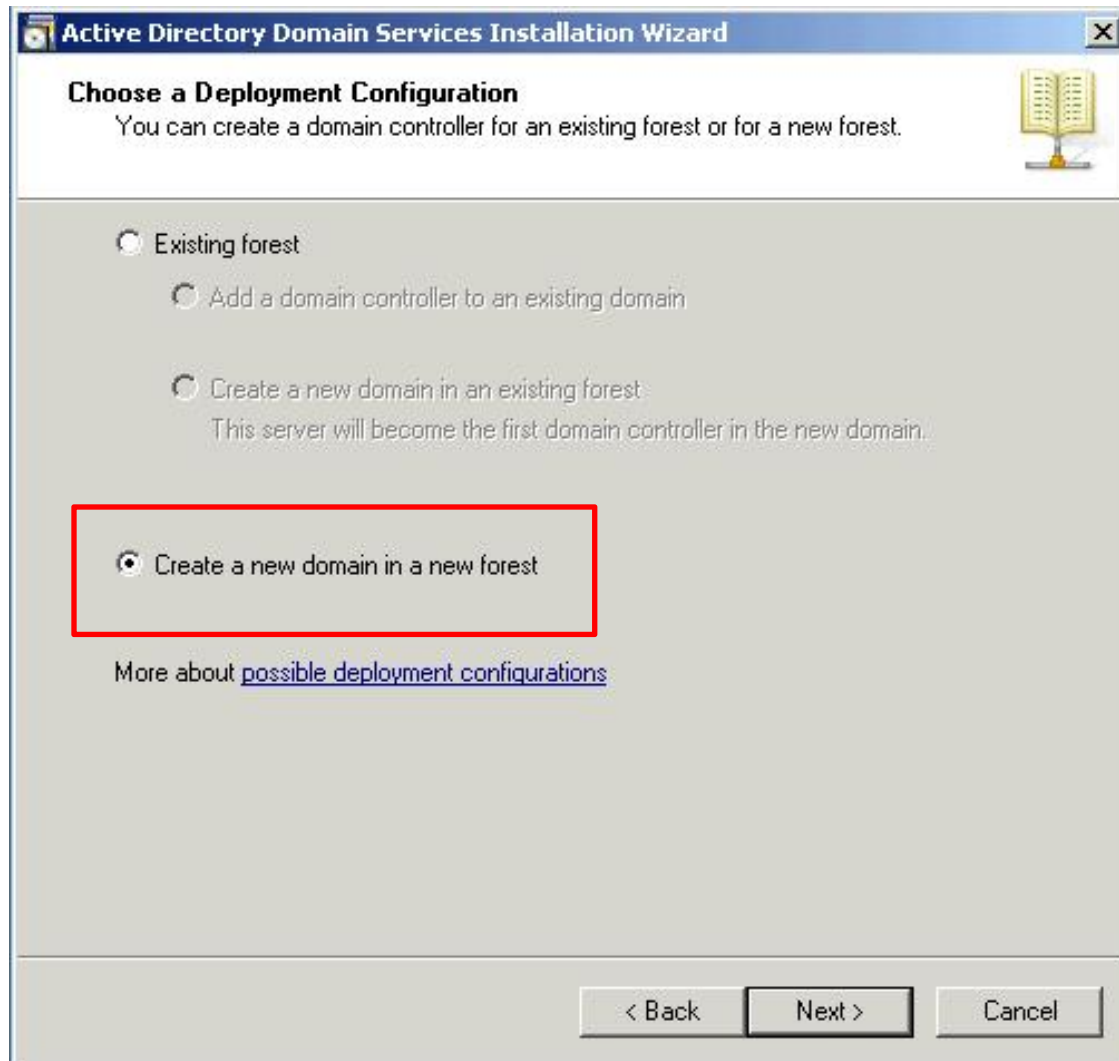
- On the Welcome to the Active Directory Domain Services Installation Wizard page, click Next.

- click Next.



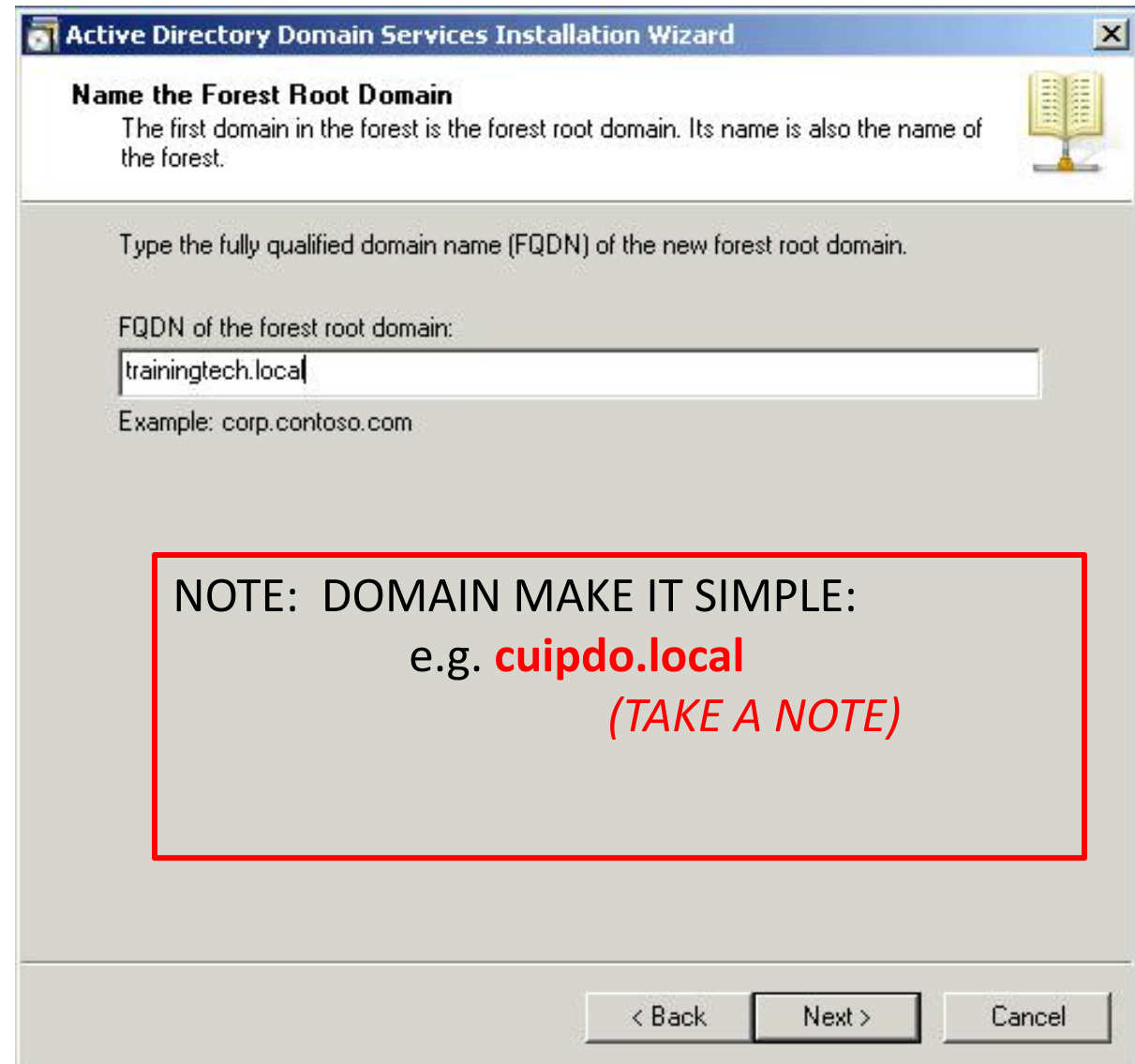
Active Directory Domain Services (ADDS)

- On the Choose a Deployment Configuration page, click Create a new domain in a new forest, and then click Next.
- Create a new domain in a new Forest and Click Next



The screenshot shows the 'Choose a Deployment Configuration' step of the Active Directory Domain Services Installation Wizard. The title bar reads 'Active Directory Domain Services Installation Wizard'. Below the title bar, the section is titled 'Choose a Deployment Configuration' with a subtitle 'You can create a domain controller for an existing forest or for a new forest.' There are three radio button options: 'Existing forest' (with sub-options 'Add a domain controller to an existing domain' and 'Create a new domain in an existing forest'), and 'Create a new domain in a new forest' (which is selected and highlighted with a red rectangle). A link 'More about possible deployment configurations' is visible. At the bottom are '< Back', 'Next >', and 'Cancel' buttons.

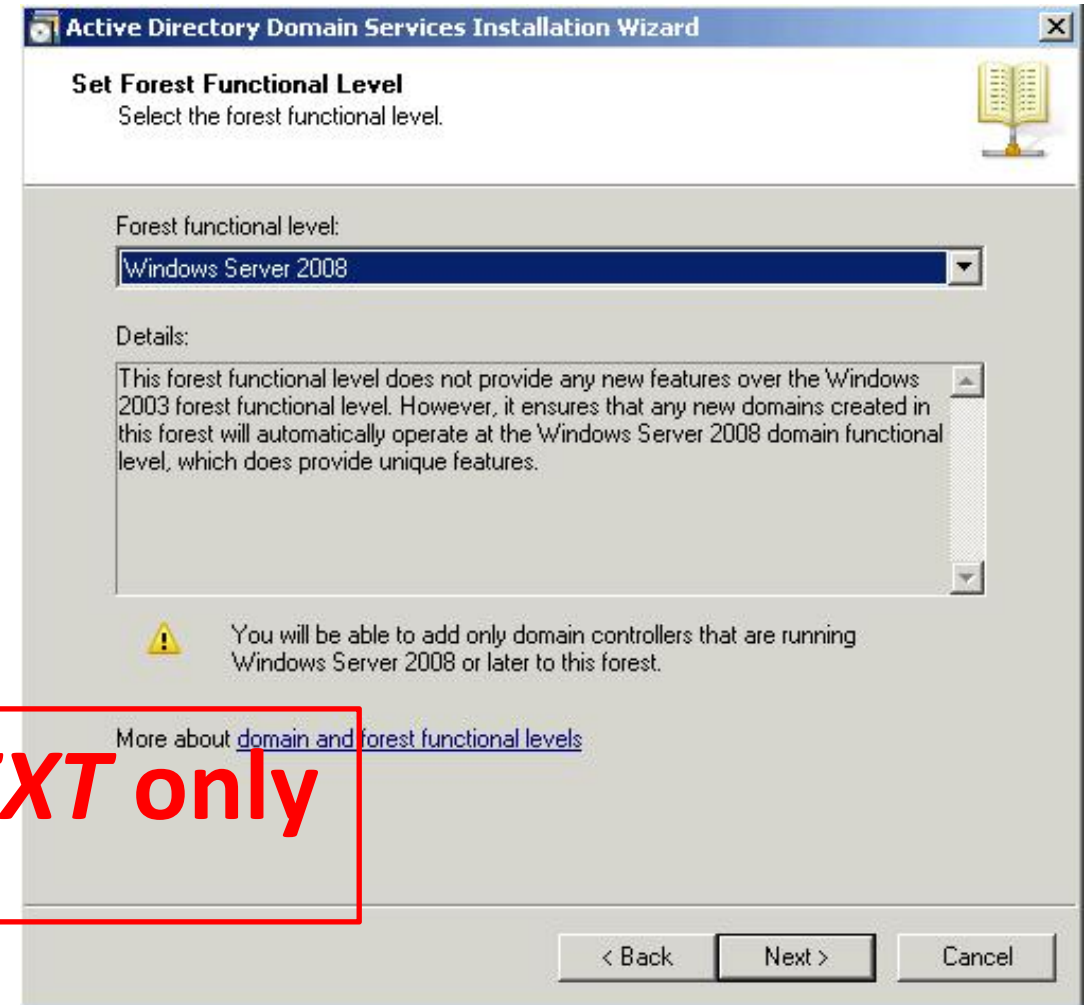
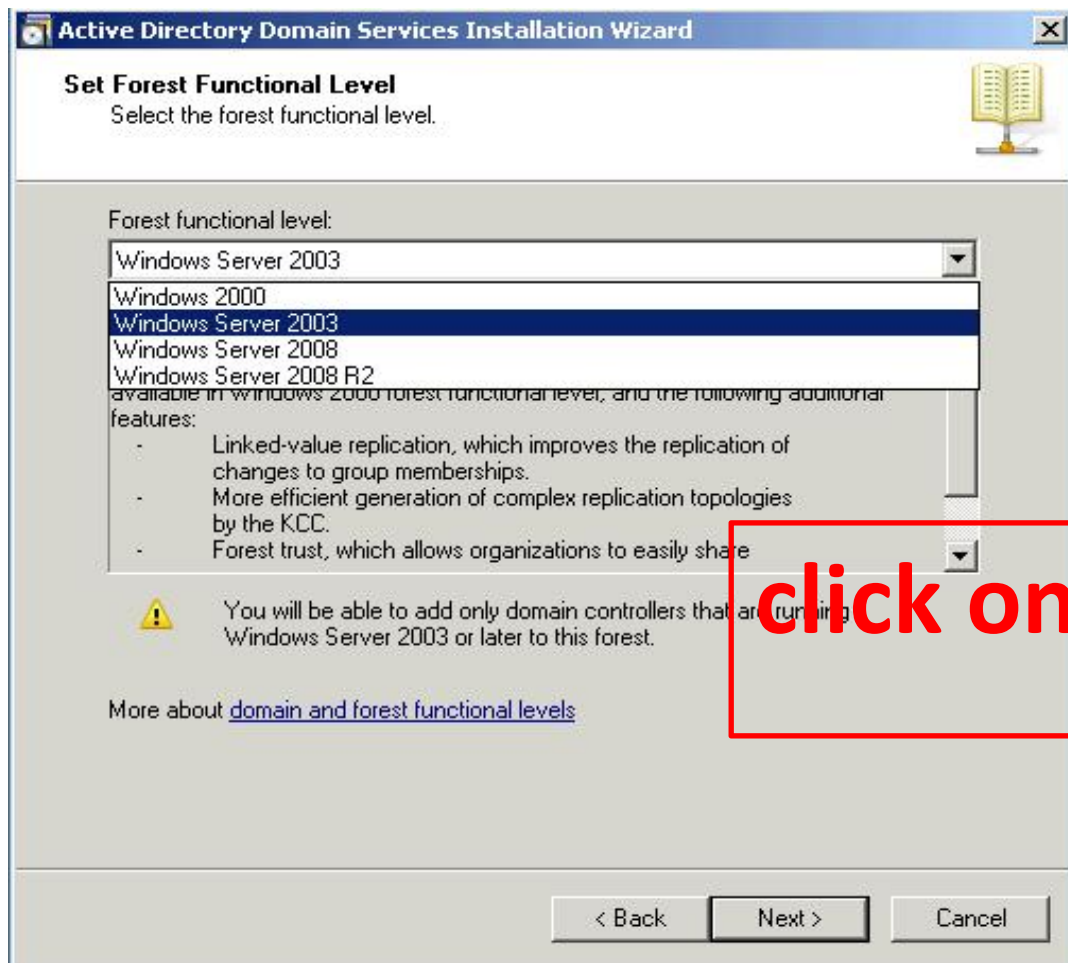
- Name the first Domain in the Forest and then click Next.



The screenshot shows the 'Name the Forest Root Domain' step of the Active Directory Domain Services Installation Wizard. The title bar reads 'Active Directory Domain Services Installation Wizard'. Below the title bar, the section is titled 'Name the Forest Root Domain' with a subtitle 'The first domain in the forest is the forest root domain. Its name is also the name of the forest.' The instruction says 'Type the fully qualified domain name (FQDN) of the new forest root domain.' A text box labeled 'FQDN of the forest root domain:' contains the text 'trainingtech.local'. Below the text box is an example: 'Example: corp.contoso.com'. A red rectangle highlights a note: 'NOTE: DOMAIN MAKE IT SIMPLE: e.g. cuipdo.local (TAKE A NOTE)'. At the bottom are '< Back', 'Next >', and 'Cancel' buttons.

Active Directory Domain Services (ADDS)

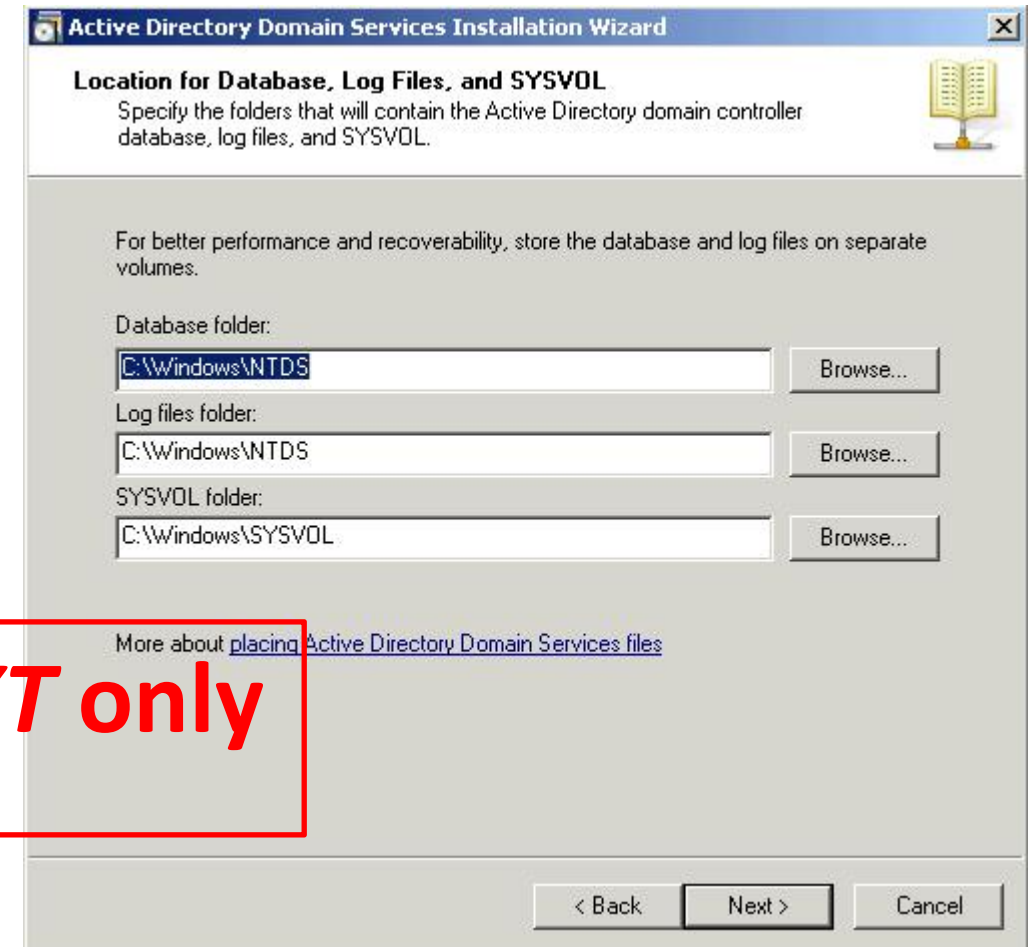
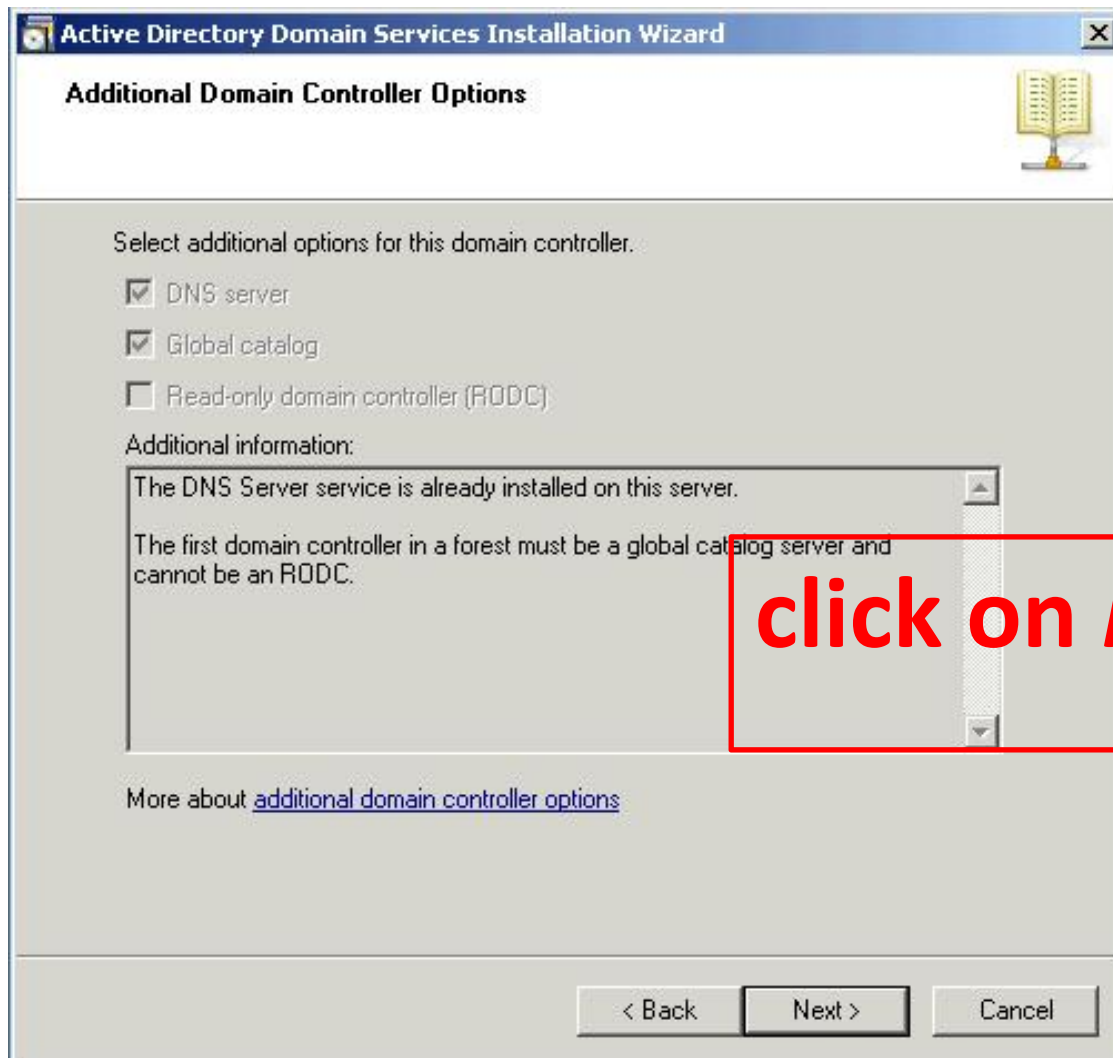
- On the Set Domain Functional Level page, select the domain functional level, and then click Next.
- Set Forest Functional Level Windows Server 2008 and Click Next
- OR Just click NEXT.



click on **NEXT** only

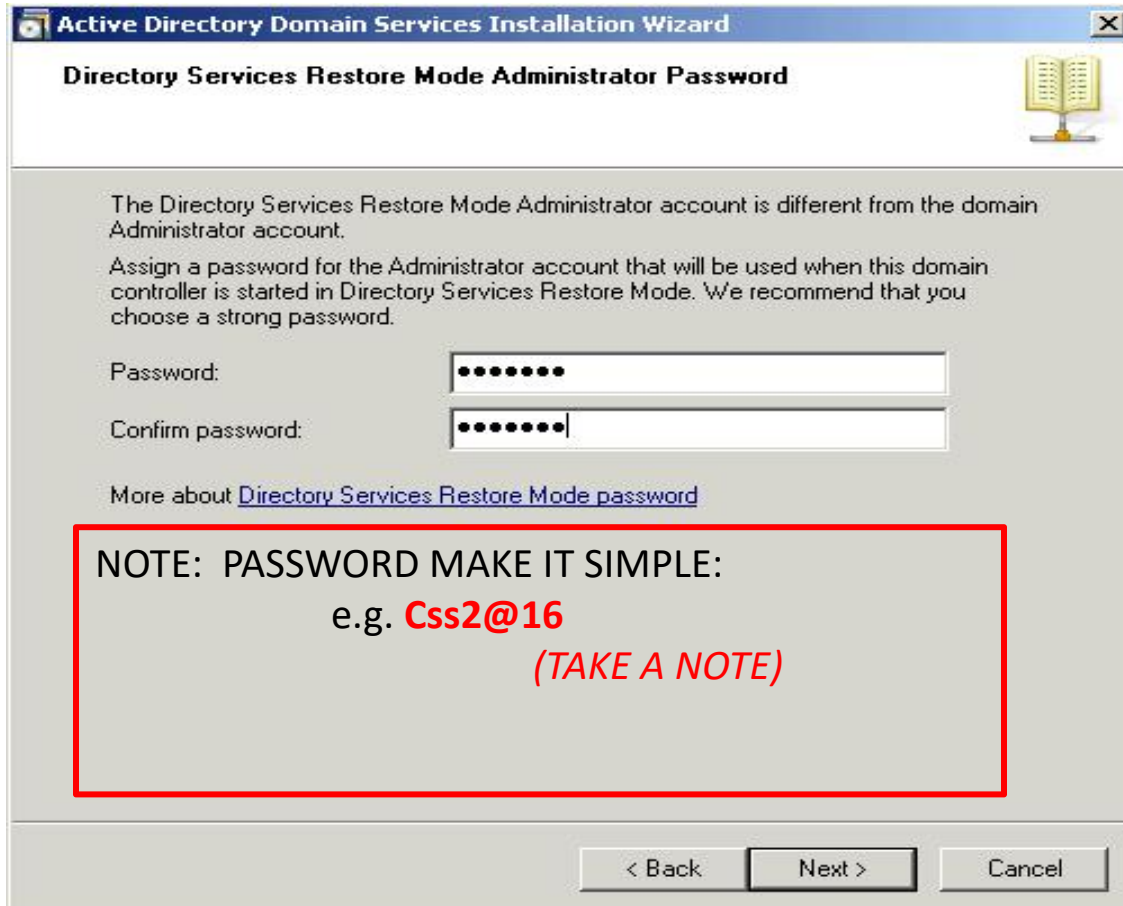
Active Directory Domain Services (ADDS)

- On the Additional Domain Controller Options page, DNS server is selected by default so that your forest DNS infrastructure can be created during AD DS installation and then click Next
- On the Location for Database, Log Files, and SYSVOL page, type or browse to the volume and folder locations for the database file, the directory service log files, and the SYSVOL files, and then click Next.



Active Directory Domain Services (ADDS)

- On the Directory Services Restore Mode Administrator Password page, type and confirm the restore mode password, and then click Next. This password must be used to start AD DS in Directory Service Restore Mode for tasks that must be performed offline



The screenshot shows the 'Directory Services Restore Mode Administrator Password' page of the Active Directory Domain Services Installation Wizard. It includes instructions about the Administrator account and password requirements. There are two password input fields, one for 'Password' and one for 'Confirm password', both masked with dots. A red box highlights a note: 'NOTE: PASSWORD MAKE IT SIMPLE: e.g. Css2@16 (TAKE A NOTE)'. At the bottom are '< Back', 'Next >', and 'Cancel' buttons.

Active Directory Domain Services Installation Wizard

Directory Services Restore Mode Administrator Password

The Directory Services Restore Mode Administrator account is different from the domain Administrator account.

Assign a password for the Administrator account that will be used when this domain controller is started in Directory Services Restore Mode. We recommend that you choose a strong password.

Password:

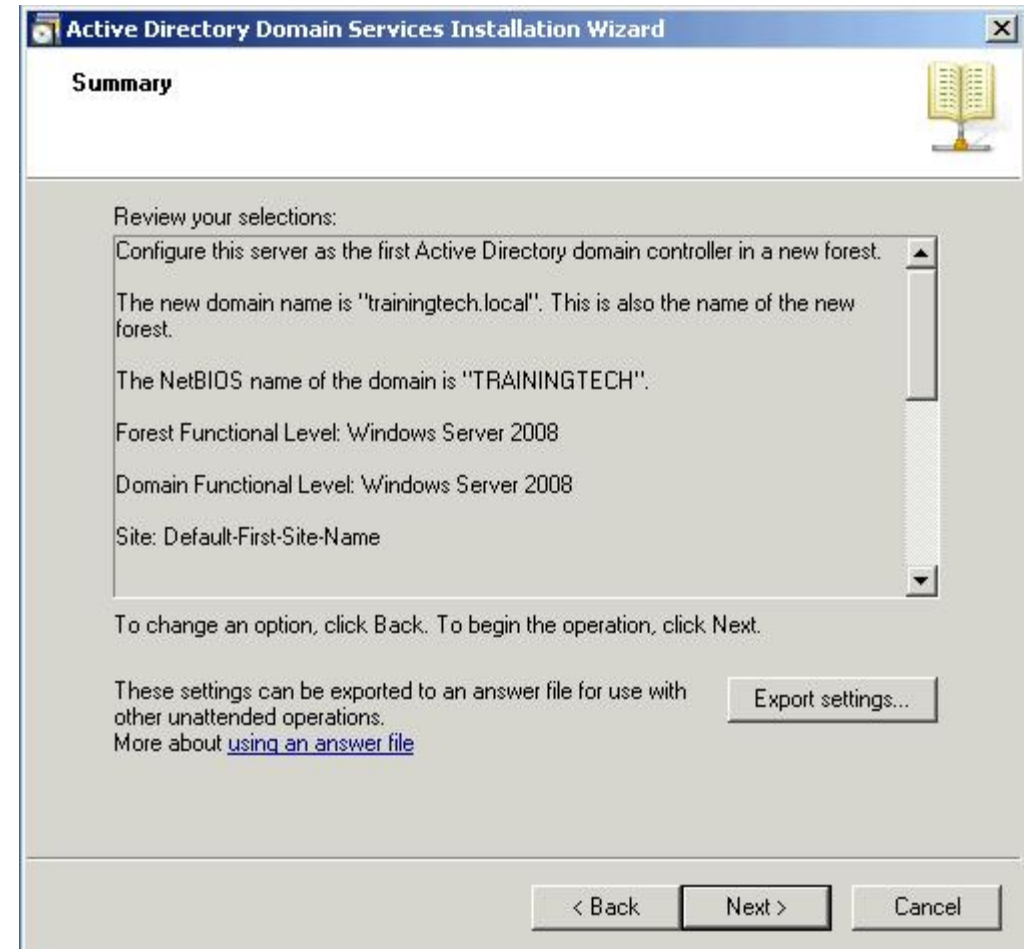
Confirm password:

More about [Directory Services Restore Mode password](#)

NOTE: PASSWORD MAKE IT SIMPLE:
e.g. **Css2@16**
(TAKE A NOTE)

< Back Next > Cancel

- On the Summary page, review your selections. Click Back to change any selections, if necessary



The screenshot shows the 'Summary' page of the Active Directory Domain Services Installation Wizard. It displays a list of configuration options for a new forest, including domain name, NetBIOS name, functional levels, and site name. There is an 'Export settings...' button and navigation buttons at the bottom.

Active Directory Domain Services Installation Wizard

Summary

Review your selections:

- Configure this server as the first Active Directory domain controller in a new forest.
- The new domain name is "trainingtech.local". This is also the name of the new forest.
- The NetBIOS name of the domain is "TRAININGTECH".
- Forest Functional Level: Windows Server 2008
- Domain Functional Level: Windows Server 2008
- Site: Default-First-Site-Name

To change an option, click Back. To begin the operation, click Next.

These settings can be exported to an answer file for use with other unattended operations. More about [using an answer file](#)

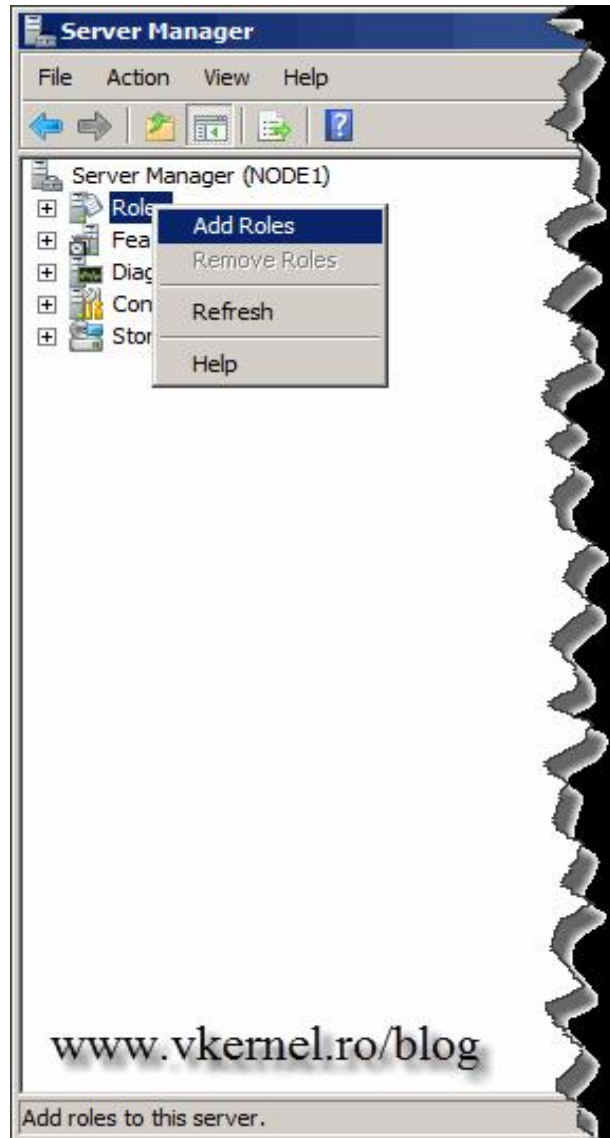
Export settings...

< Back Next > Cancel

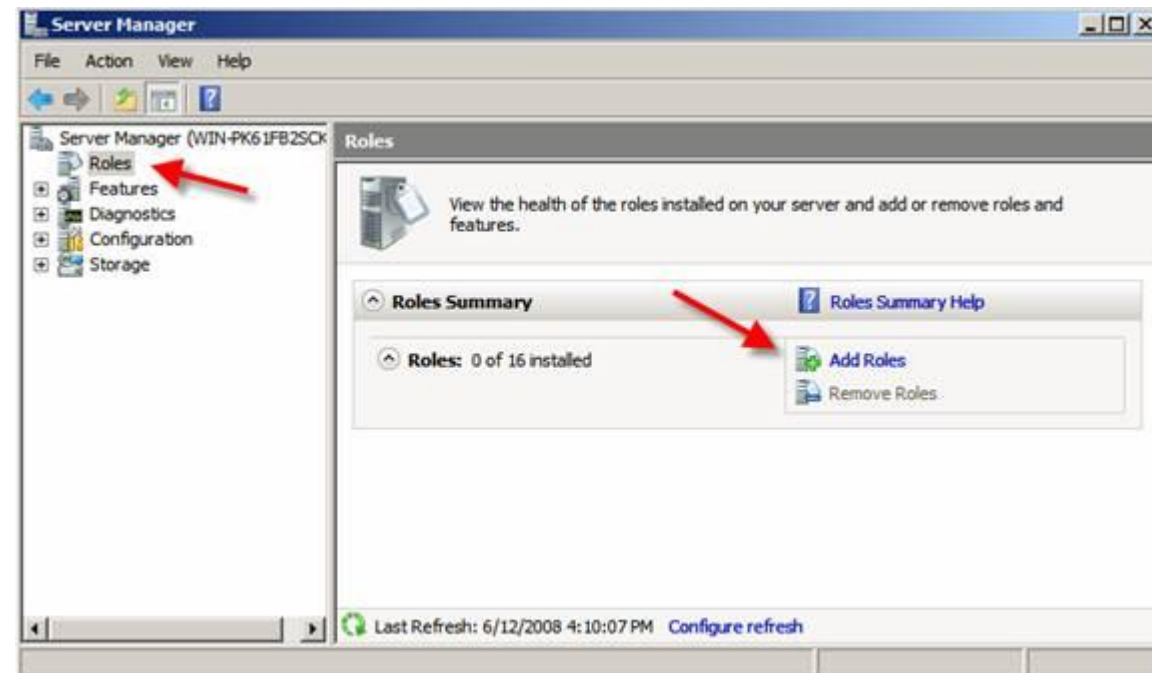
- FINISH then Restart the server to complete the AD DS installation

CONFIGURATION OF DYNAMIC HOST CONFIGURATION PROTOCOL (DHCP)

- To start, open **Server Manager**, right-click **Roles** and choose **Add Roles**.

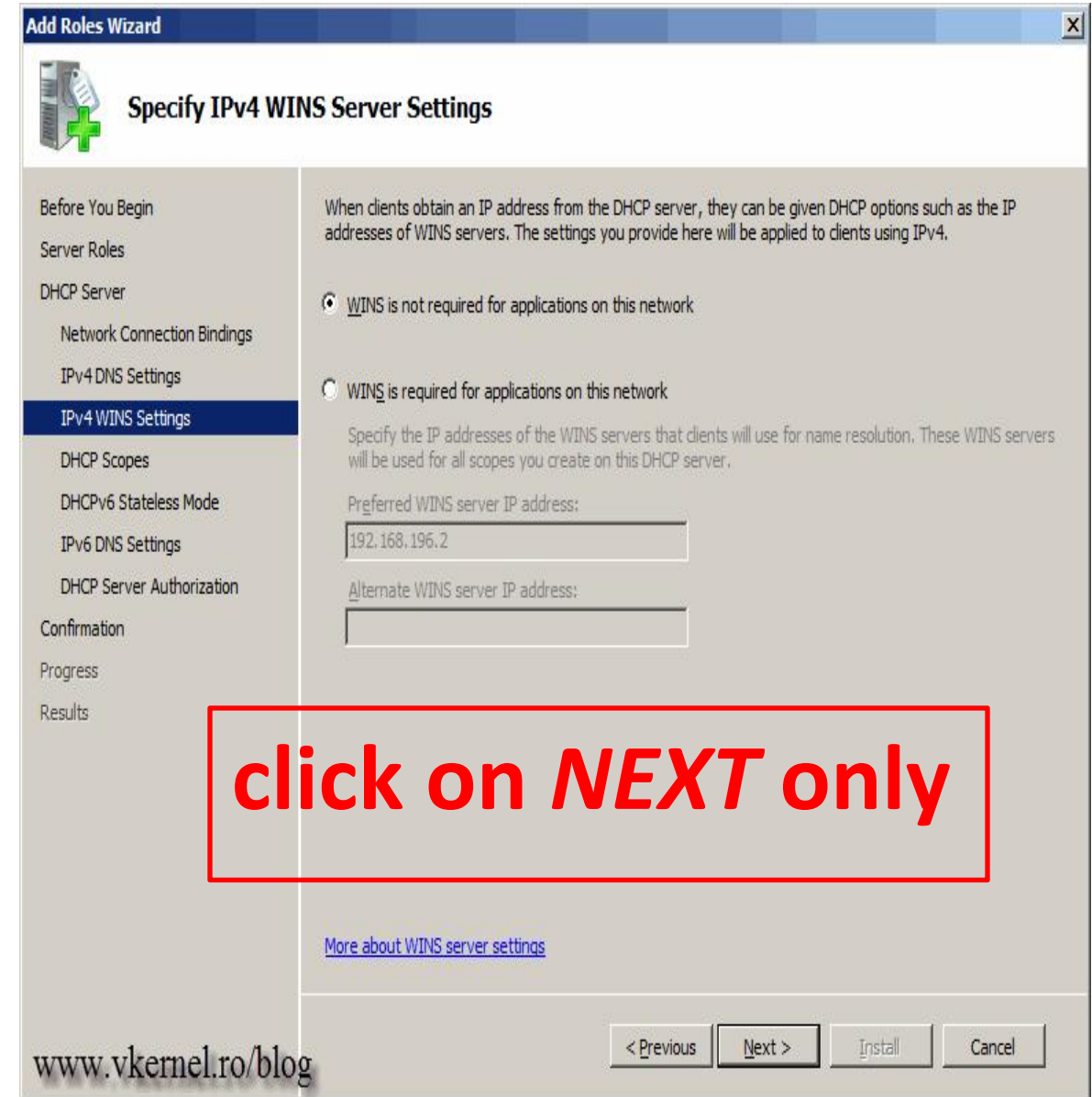
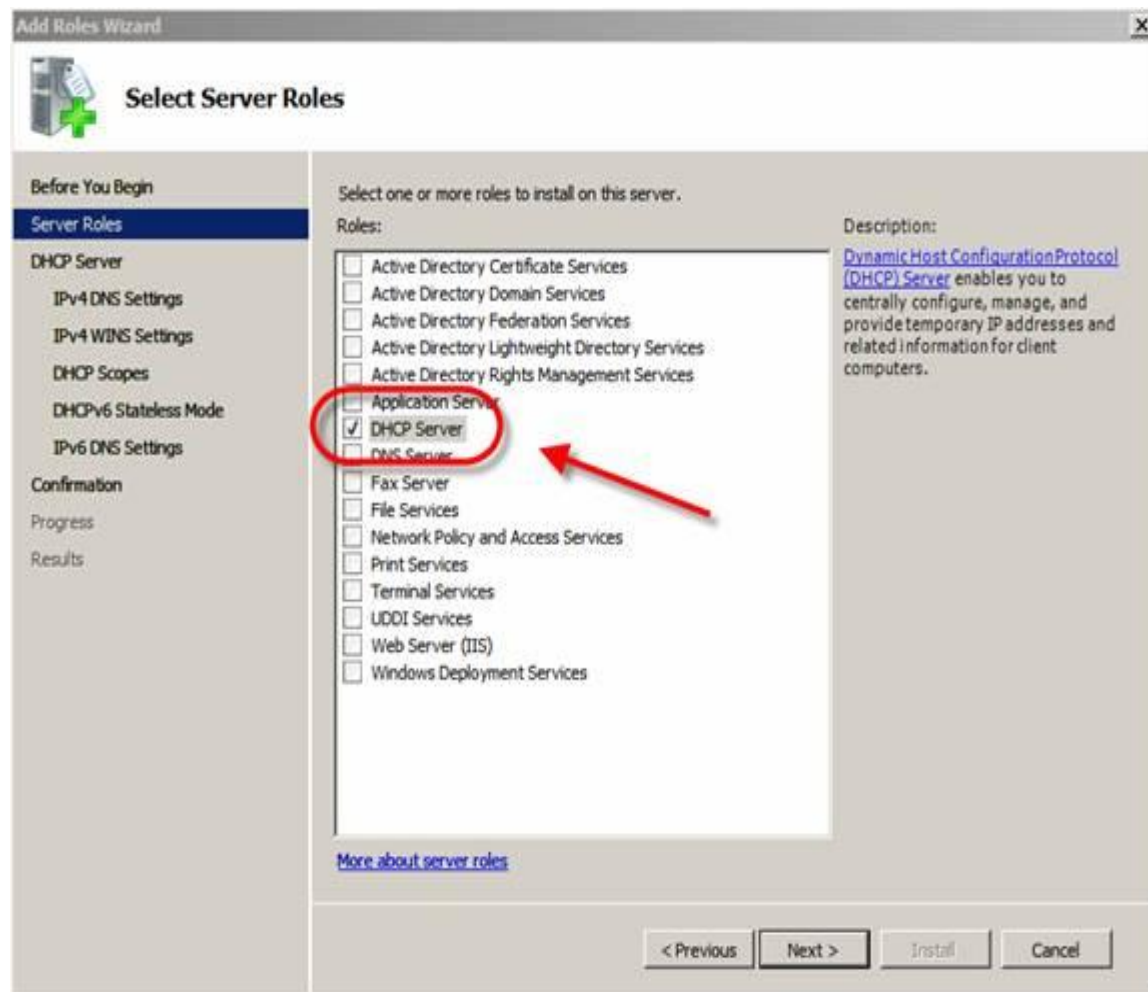


To start the DHCP installation process, you can click **Add Roles** from the **Initial Configuration Tasks** window or from **Server Manager à Roles à Add Roles**.



CONFIGURATION OF DYNAMIC HOST CONFIGURATION PROTOCOL (DHCP)

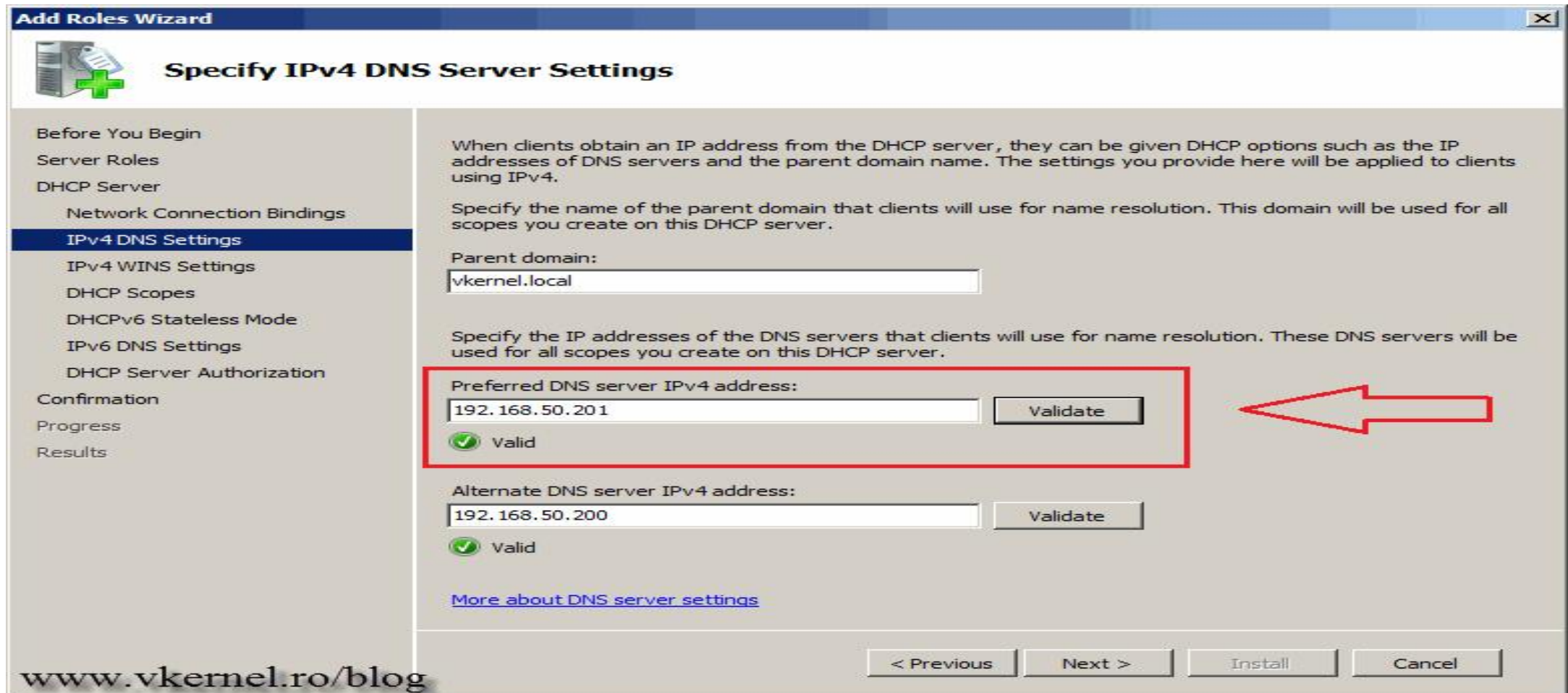
- On the **Select Server Roles** page check the box next to **DHCP Server** then click **Next**



CONFIGURATION OF DYNAMIC HOST CONFIGURATION PROTOCOL (DHCP)

- Type the name of your domain in the **Parent Domain** box, then complete the preferred and alternate DNS boxes with your own DNS servers IP addresses. If you press the **Validate** button(s), the wizard will check if those DNS servers are valid.

NOTE: Make sure your DNS must be VALID. Then click NEXT.



The screenshot shows the 'Add Roles Wizard' window with the title 'Specify IPv4 DNS Server Settings'. The left sidebar contains a tree view with the following items: 'Before You Begin', 'Server Roles', 'DHCP Server', 'Network Connection Bindings', 'IPv4 DNS Settings' (highlighted), 'IPv4 WINS Settings', 'DHCP Scopes', 'DHCPv6 Stateless Mode', 'IPv6 DNS Settings', 'DHCP Server Authorization', 'Confirmation', 'Progress', and 'Results'. The main content area has a green plus icon and a document icon. It contains the following text: 'When clients obtain an IP address from the DHCP server, they can be given DHCP options such as the IP addresses of DNS servers and the parent domain name. The settings you provide here will be applied to clients using IPv4.' Below this is a text box for 'Parent domain:' containing 'vkernel.local'. Another text box explains: 'Specify the name of the parent domain that clients will use for name resolution. This domain will be used for all scopes you create on this DHCP server.' The next section is for 'Preferred DNS server IPv4 address:' with a text box containing '192.168.50.201' and a 'Validate' button. A red box highlights this section, and a red arrow points to it. Below this is a section for 'Alternate DNS server IPv4 address:' with a text box containing '192.168.50.200' and a 'Validate' button. Both IP addresses are marked as 'Valid' with a green checkmark. At the bottom, there is a link 'More about DNS server settings' and four buttons: '< Previous', 'Next >', 'Install', and 'Cancel'. The URL 'www.vkernel.ro/blog' is visible in the bottom left corner.

Add Roles Wizard

Specify IPv4 DNS Server Settings

Before You Begin
Server Roles
DHCP Server
Network Connection Bindings
IPv4 DNS Settings
IPv4 WINS Settings
DHCP Scopes
DHCPv6 Stateless Mode
IPv6 DNS Settings
DHCP Server Authorization
Confirmation
Progress
Results

When clients obtain an IP address from the DHCP server, they can be given DHCP options such as the IP addresses of DNS servers and the parent domain name. The settings you provide here will be applied to clients using IPv4.

Specify the name of the parent domain that clients will use for name resolution. This domain will be used for all scopes you create on this DHCP server.

Parent domain:
vkernel.local

Specify the IP addresses of the DNS servers that clients will use for name resolution. These DNS servers will be used for all scopes you create on this DHCP server.

Preferred DNS server IPv4 address:
192.168.50.201
Valid

Alternate DNS server IPv4 address:
192.168.50.200
Valid

[More about DNS server settings](#)

< Previous Next > Install Cancel

www.vkernel.ro/blog

CONFIGURATION OF DYNAMIC HOST CONFIGURATION PROTOCOL (DHCP)

- Click the **Add** button to create our first scope. A scope is a range of IP addresses and gateway configuration that DHCP will provide to clients. Give the scope a name, provide the IP range addresses and gateway information, then click **OK**. If you leave (and I recommend) the **Activate this scope** option enabled, DHCP will automatically activate with Active Directory. A Windows DHCP server to function needs to be authorized with AD, or will not provide IP addresses to clients.

SCOPE NAME:

NOTE:
If ever used the same Starting & end on the given IP Address on COC2.

GATEWAY from:


www.vkernel.ro/blog

click on NEXT only

www.vkernel.ro/blog

CONFIGURATION OF DYNAMIC HOST CONFIGURATION PROTOCOL (DHCP)

Add Roles Wizard

 **Configure DHCPv6 Stateless Mode**

Before You Begin
Server Roles
DHCP Server
Network Connection Bindings
IPv4 DNS Settings
IPv4 WINS Settings
DHCP Scopes
DHCPv6 Stateless Mode
DHCP Server Authorization
Confirmation
Progress
Results

DHCP Server supports the DHCPv6 protocol for servicing IPv6 clients. Using DHCPv6, clients can automatically configure their own IPv6 addresses using stateless mode, or they can acquire IPv6 addresses in stateful mode from the DHCP server. If routers on your network are configured to support DHCPv6, verify that your selection below matches the router configuration.

Select the DHCPv6 stateless mode configuration for this server.

☐ Enable DHCPv6 stateless mode for this server
IPv6 clients will be automatically configured without using this DHCP server.


☒ Disable DHCPv6 stateless mode for this server
After installing DHCP Server, you can configure the DHCPv6 mode using the DHCP Management console.

[More about DHCPv6 stateless mode](#)

www.vkernel.ro/blog

click on *NEXT* only

Add Roles Wizard

 **Authorize DHCP Server**


Before You Begin
Server Roles
DHCP Server
Network Connection Bindings
IPv4 DNS Settings
IPv4 WINS Settings
DHCP Scopes
DHCPv6 Stateless Mode
DHCP Server Authorization
Confirmation
Progress
Results

Active Directory Domain Services (AD DS) stores a list of DHCP servers that are authorized to service clients on the network. Authorizing DHCP servers helps avoid accidental damage caused by running DHCP servers with incorrect configurations or DHCP servers with correct configurations on the wrong network.

Specify credentials to use for authorizing this DHCP server in AD DS.

☒ Use current credentials
The credentials of the current user will be used to authorize this DHCP server in AD DS.
User Name:

☐ Use alternate credentials
Specify domain administrator credentials for authorizing this DHCP server in AD DS.
User Name:

☐ Skip authorization of this DHCP server in AD DS
 This DHCP server must be authorized in AD DS before it can service clients.

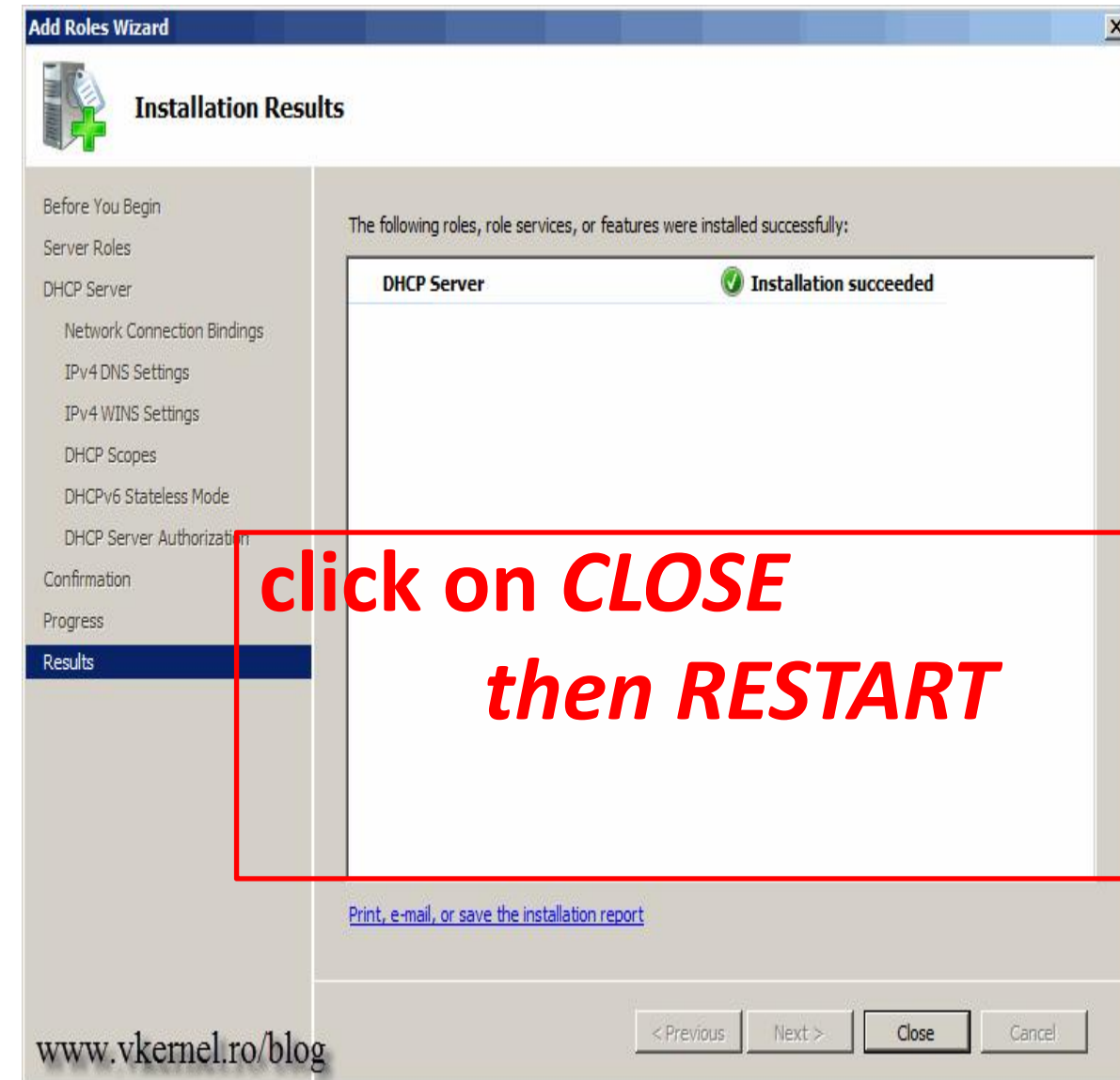
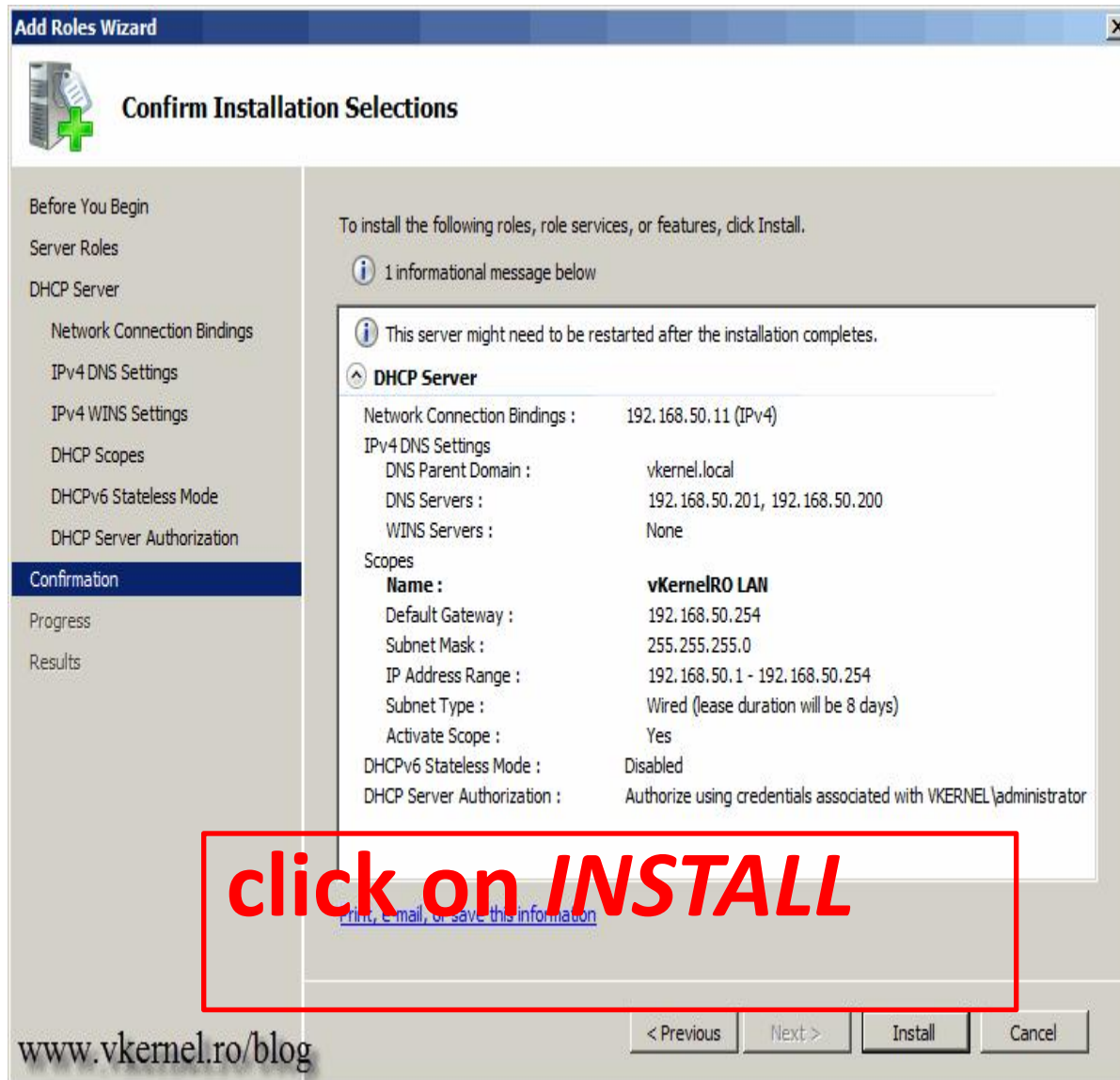
[More about authorizing DHCP servers in AD DS](#)

www.vkernel.ro/blog

click on *NEXT* only

CONFIGURATION OF DYNAMIC HOST CONFIGURATION PROTOCOL (DHCP)

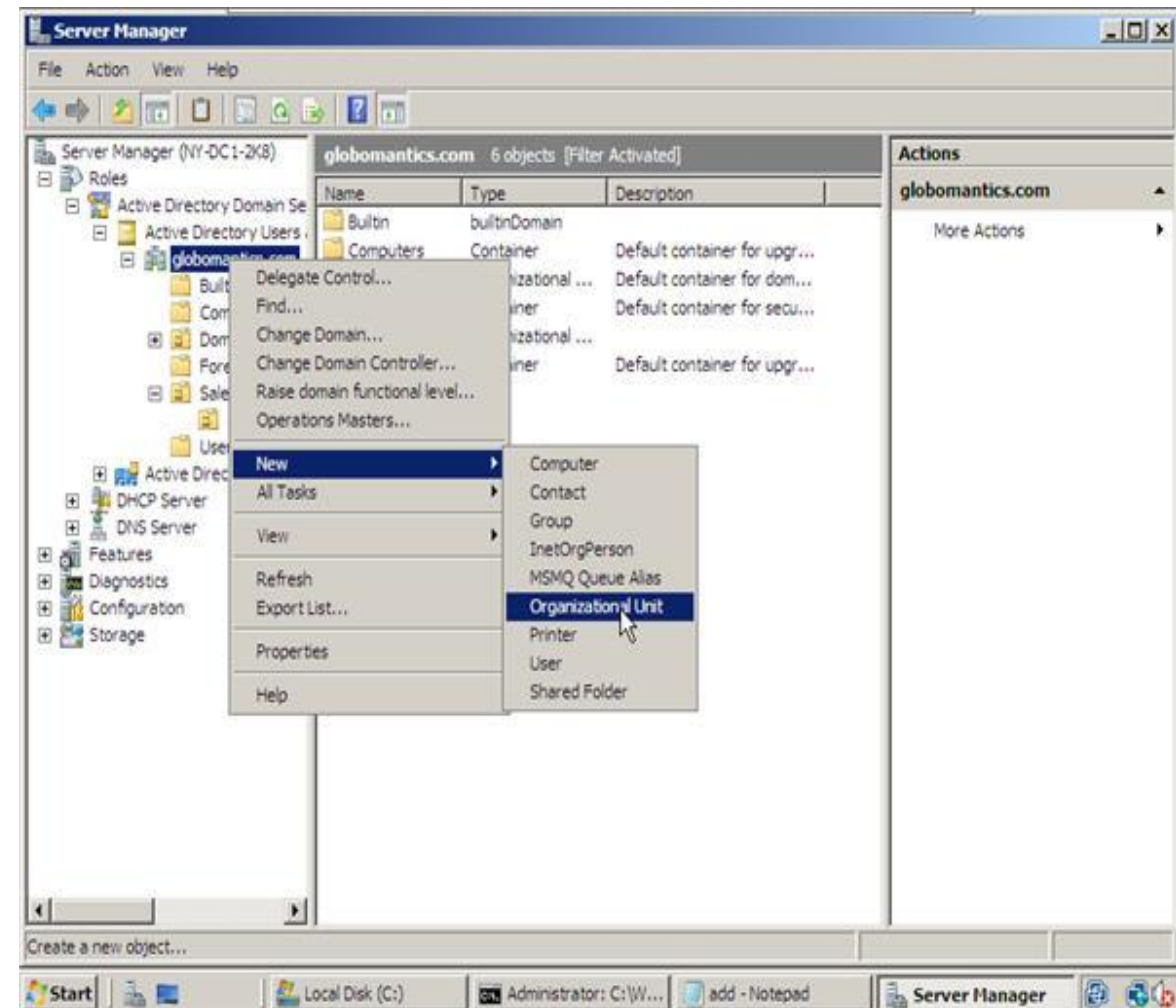
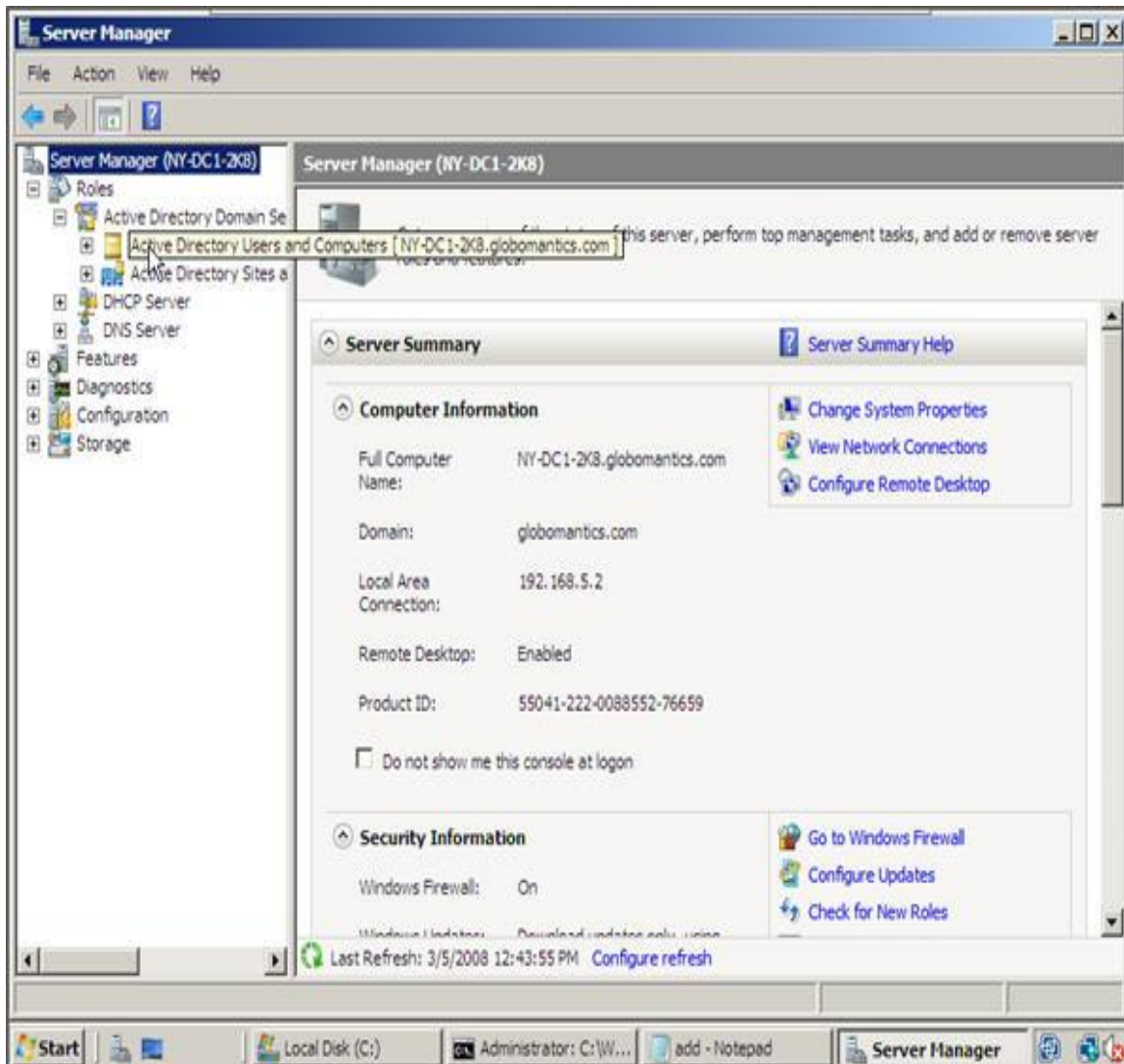
- On the **Confirmation** screen click **Install**.



CREATING USER ACCOUNTS

START MENU – ADMINISTRATION TOOL – ACTIVE
DIRECTORY USERS AND COMPUTER.

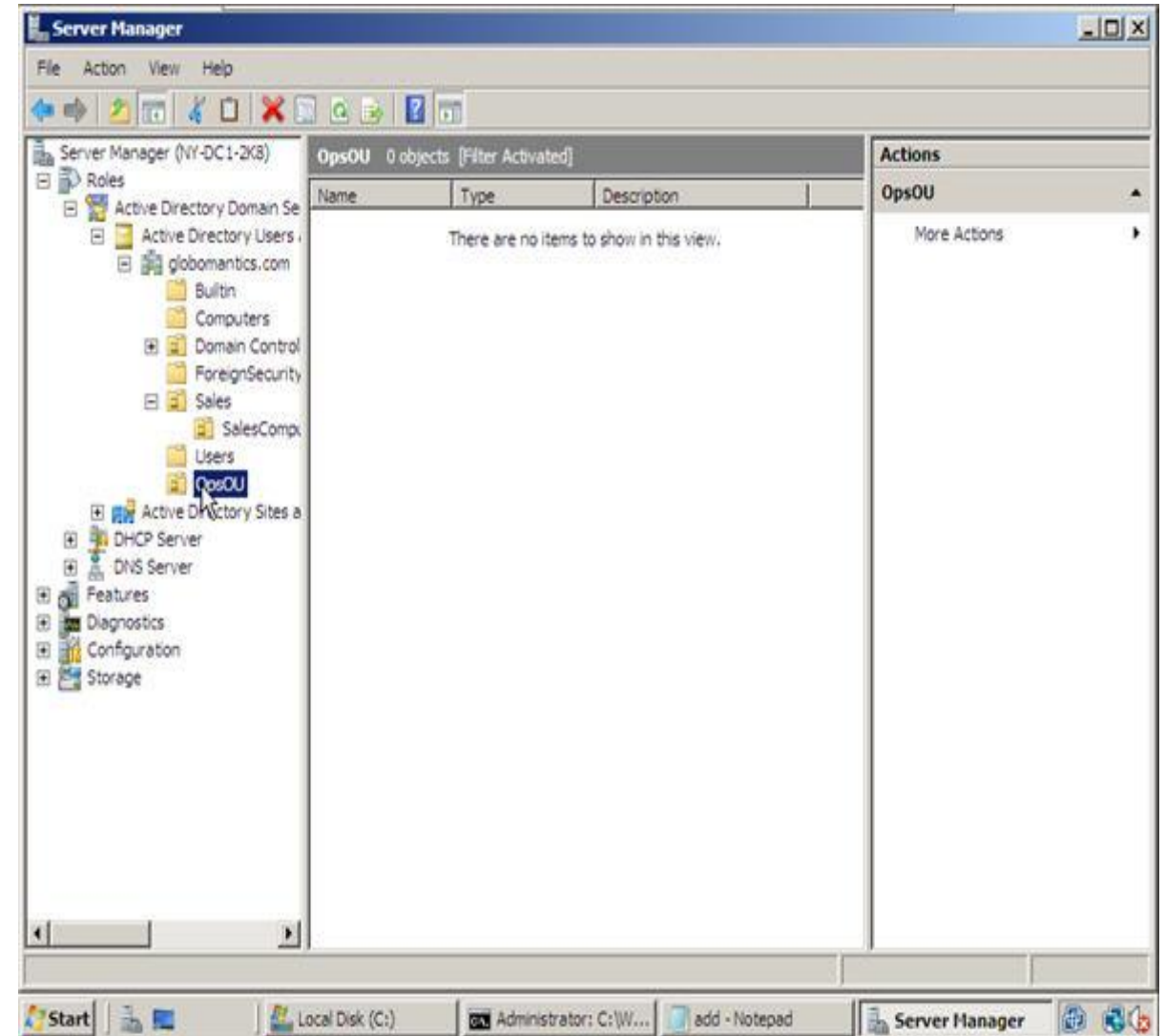
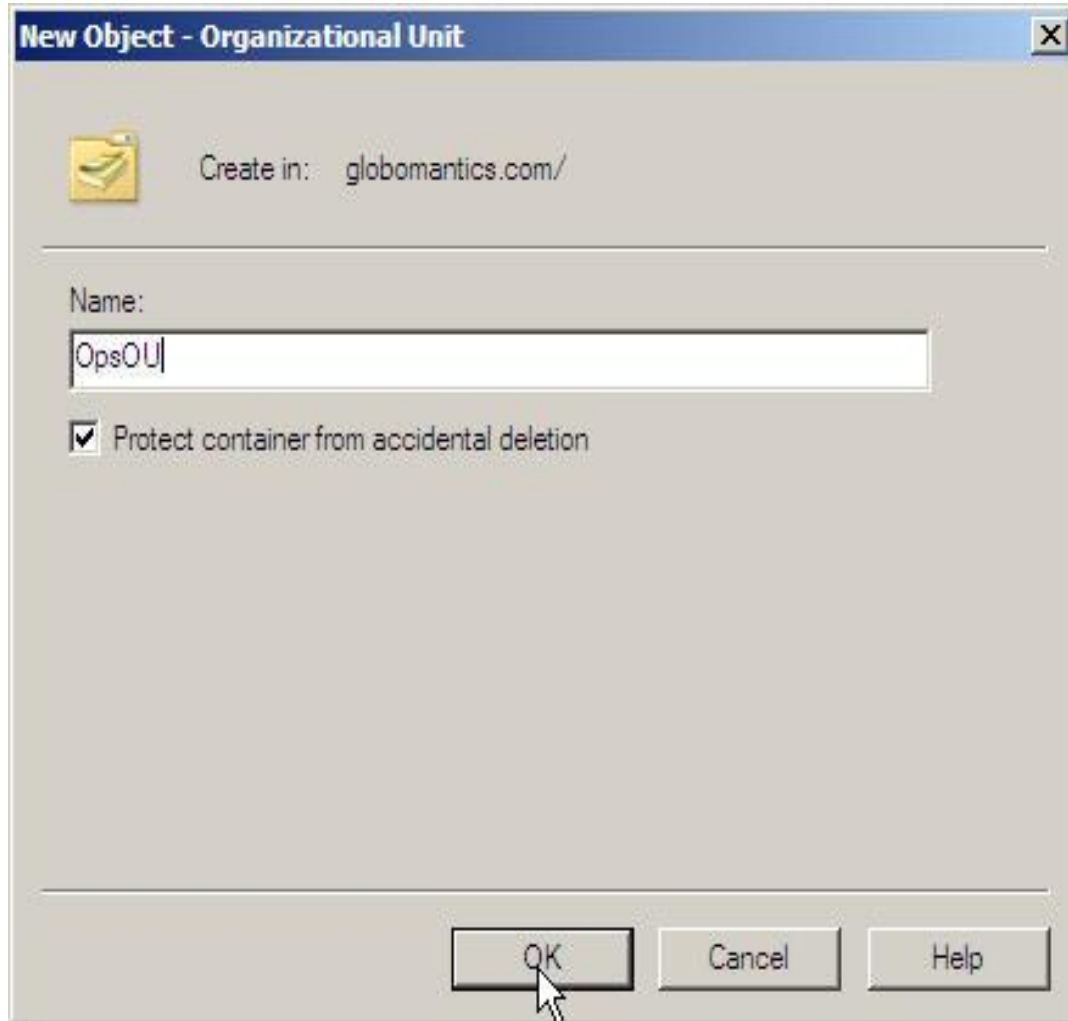
To create a new Organization Unit, right-click on
your domain name, point to the New option and
then select **Organizational Unit**.



CREATING USER ACCOUNTS

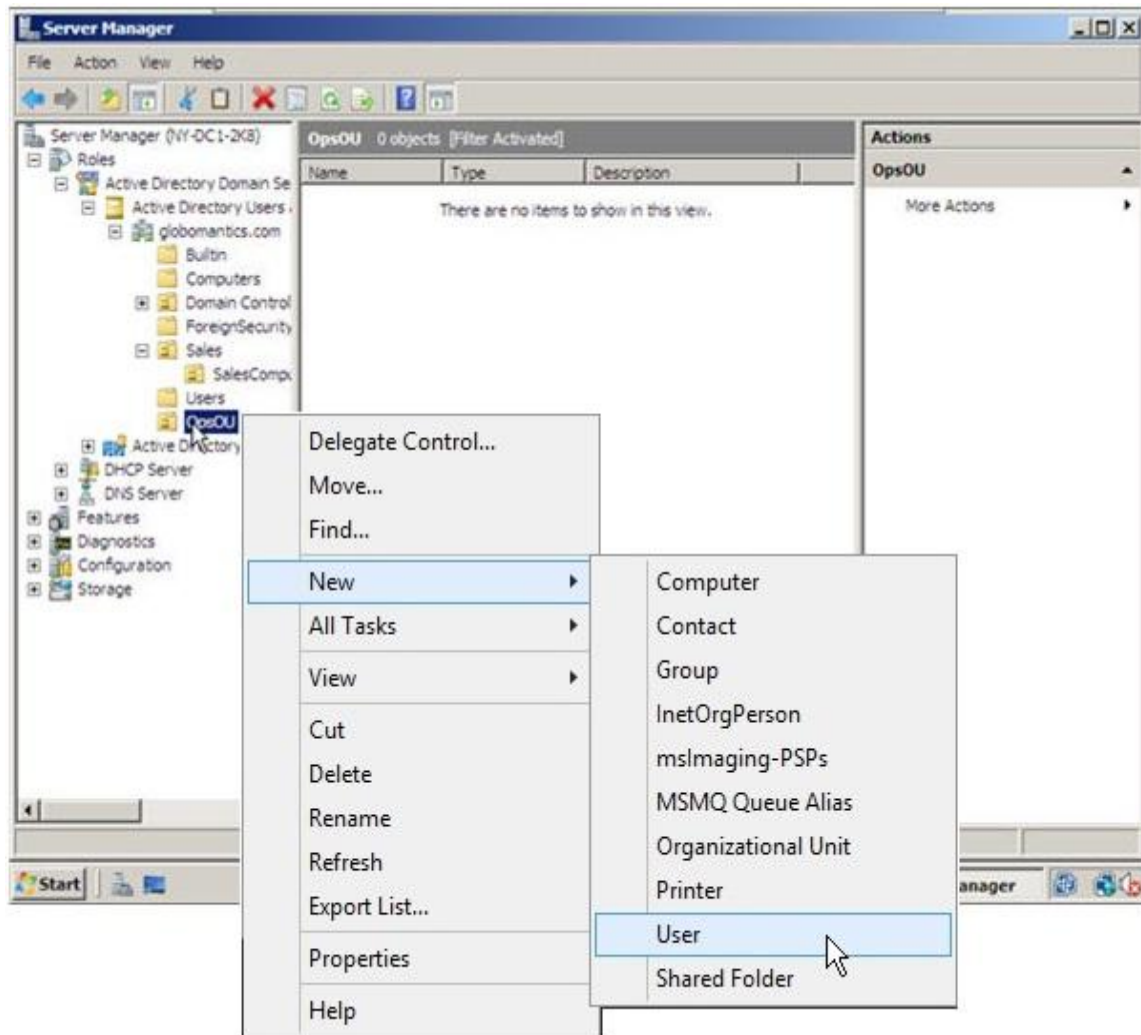
Type in the name of your OU and make sure that the box is checked next to **Protect container from accidental deletion**. When done, click **OK**.

We now have a new Organizational Unit in our Active Directory called **OpsOU**



on Organizational Unit (OU)

- Right click – select NEW – select USER – Click



The 'New Object - User' dialog box is shown with the following fields and values:

- Create in: **cupido.local/Users**
- First name: **ROY HOWELL**
- Initials: **D.**
- Last name: **CUPIDO**
- Full name: **ROY HOWELL D. CUPIDO**
- User logon name: **rhdcupido** (text) and **@cupido.local** (domain dropdown)
- User logon name (pre-Windows 2000): **CUPIDO** (text) and **rhdcupido** (password)

Red arrows point to the 'First name', 'Full name', 'User logon name', and 'Next >' buttons.

- Fill all the information
- Enter a User Name (Simple)
- Click on NEXT

on Organizational Unit (OU)

- Password Configuration

New Object - User

Create in: mustbegeek.com/Management

Password: [masked]

Confirm password: [masked]

☒ User must change password at next logon

☐ User cannot change password

☐ Password never expires

☐ Account is disabled

< Back Next > Cancel

Css2@16

New User

User name: RHCupido

Full name: Roy Howell D. Cipido

Description: [empty]

Password: [masked]

Confirm password: [masked]

☐ User must change password at next logon

☒ User cannot change password

☒ Password never expires

☐ Account is disabled

Help Create Close

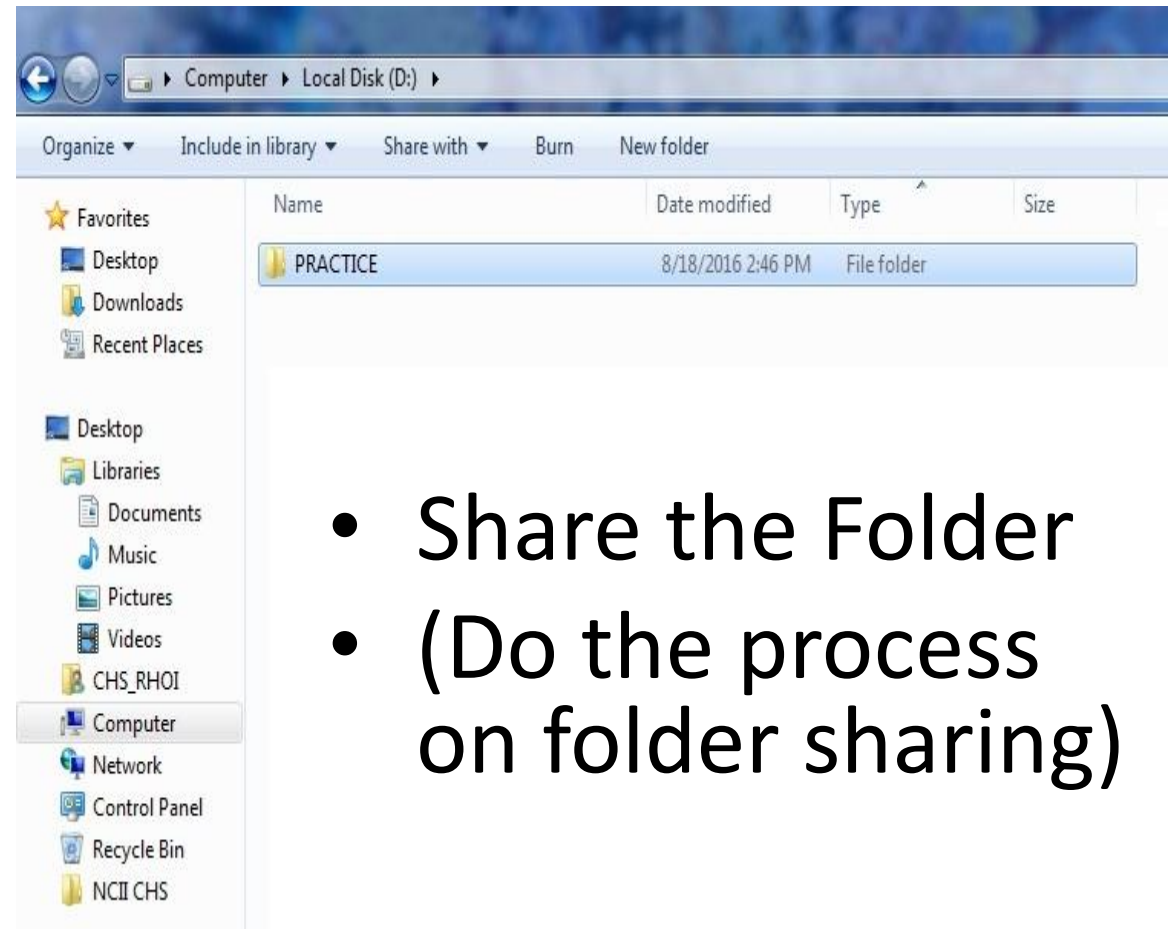
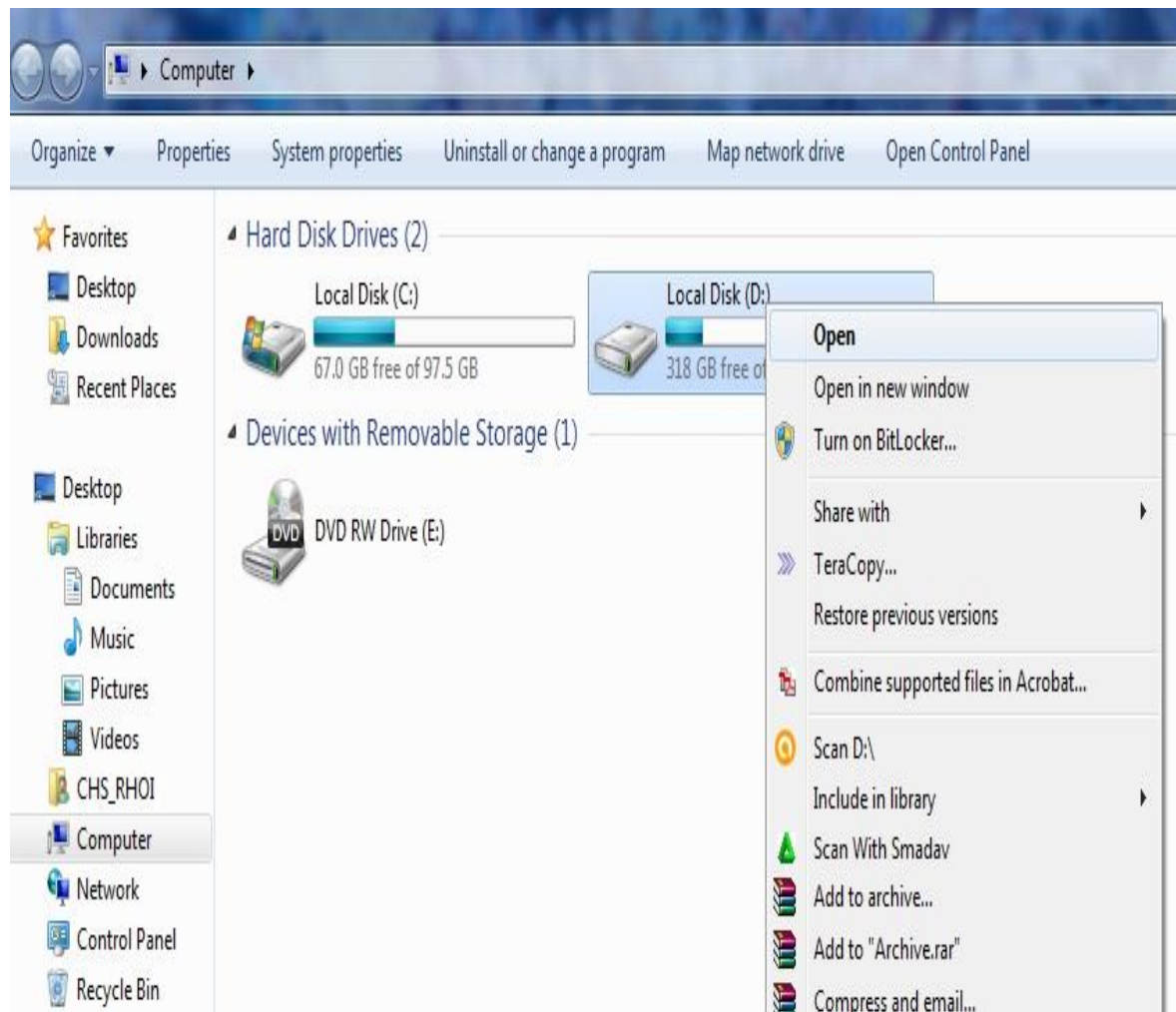
SELECT THIS OPTION

e.g.
Css2@16

- Select the "User cannot change password" and "Password never expires"
- Click on **NEXT** and **FINISH**

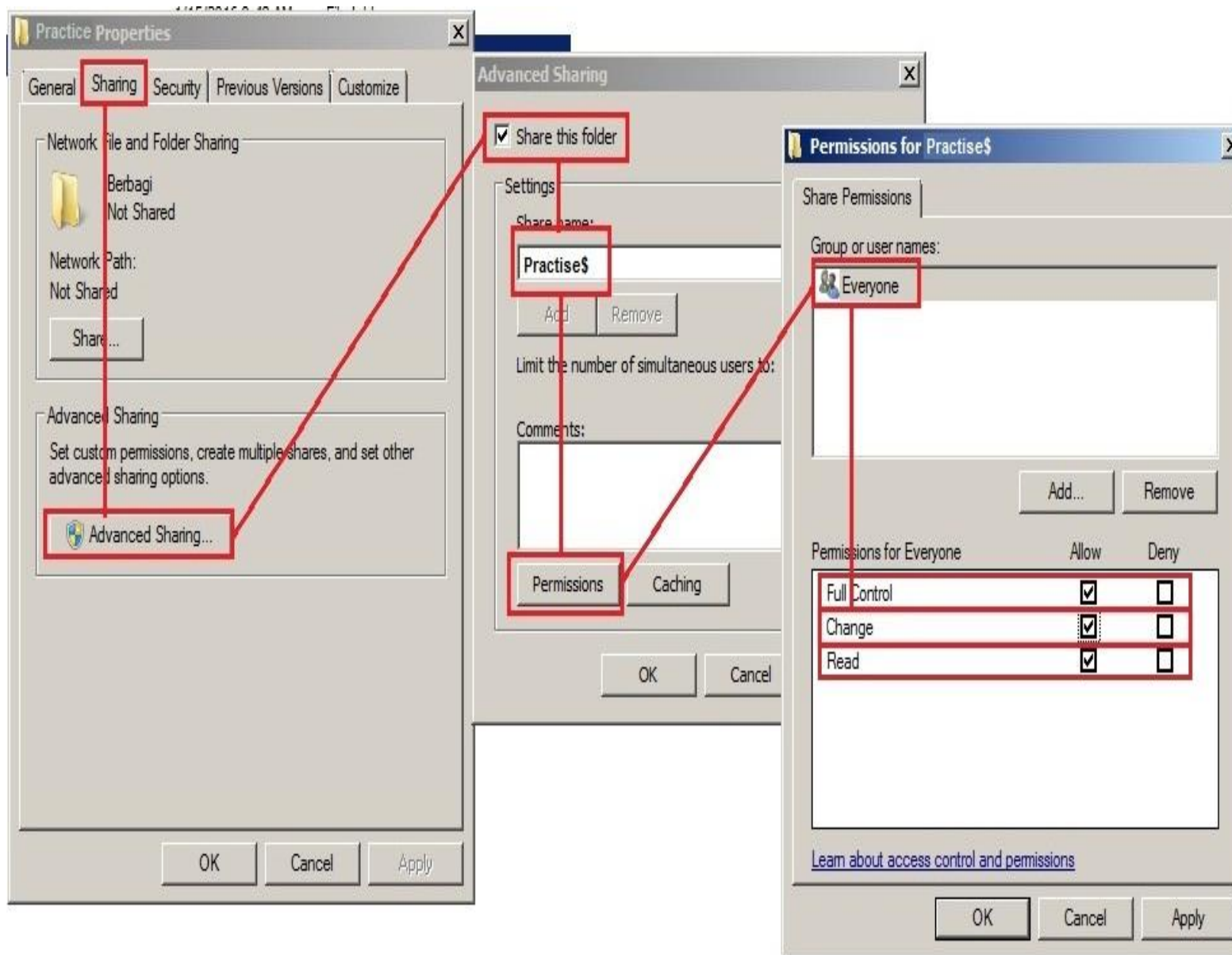
FILE SERVER

- On MY COMPUTER
- Select local disk D: / Drive D:
- Create a FOLDER
- CREATE A SIMPLE FOLDER NAME
 - e.g. CSSNCII



- Share the Folder
- (Do the process on folder sharing)

FOLDER SHARING



Note: **Under Permission**

- Remove ALL entry
- Click on ADD
- Type "Auth"
(Select or Click Check Names)
- Click OK
- Check "Full control"
- APPLY and OK

FOLDER MAPPING

Tom Properties

Member Of | Dial-in | Environment | Sessions

Remote control | Terminal Services Profile | CDM+

General | Address | Account | Profile | Telephones | Organization

User profile

Profile path: e.g. \\srv_css2\Practice

Login script:

Home folder

☐ Local path:

☒ Connect: Z: Ito:

\\srv_css2\Practice\%.Username%

OK Cancel Apply

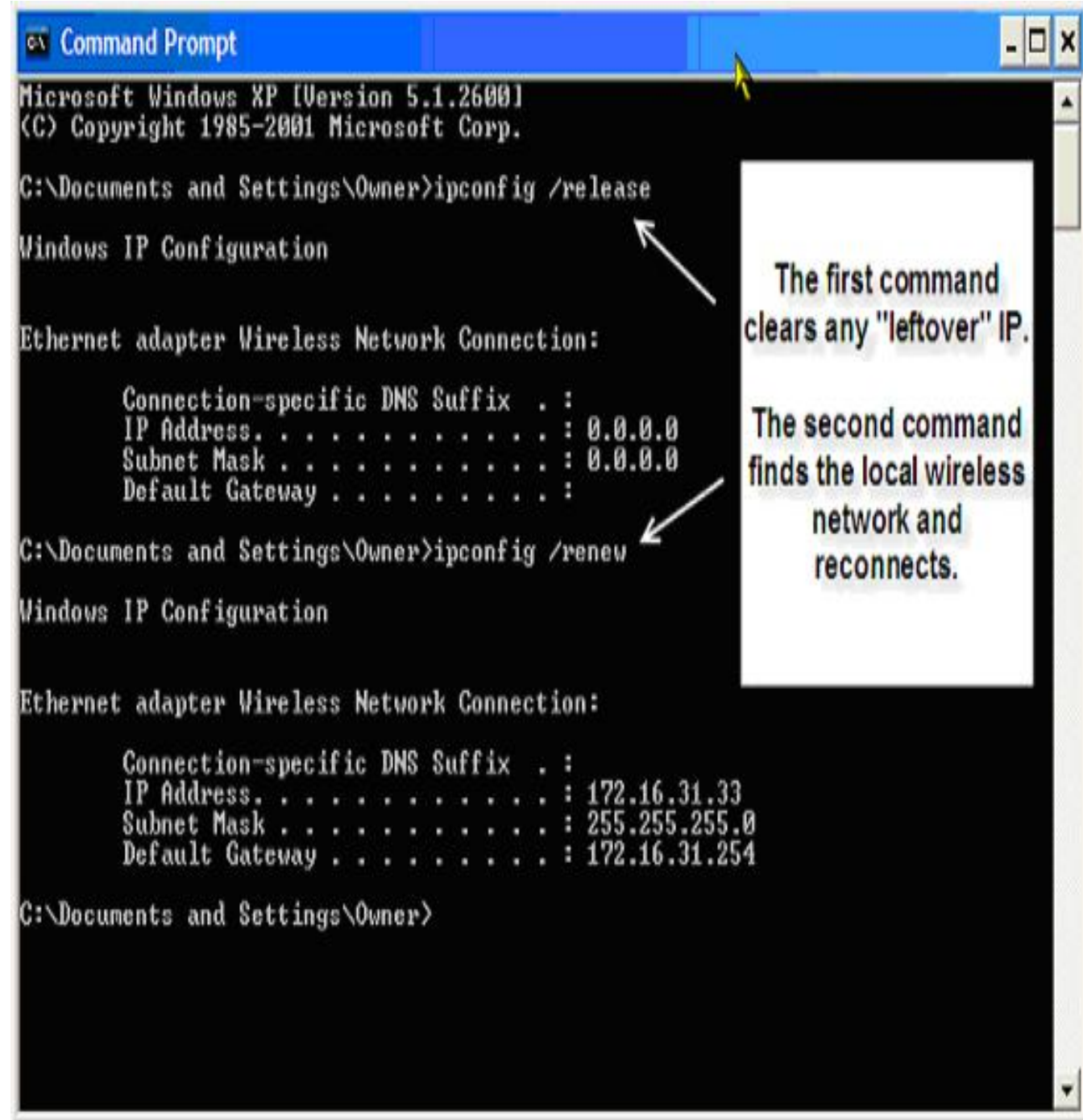
**COPY & PASTE
+ (ADD)
\\%.Username%**

- Right Click the FOLDER OF USER
- Select PROPERTIES
- Select Profile
- Profile Path:
Type the (\\ComputerName\Folder)
- Login Script:
Copy and Paste
(\\ComputerName\Folder add +
\\%.Username%)
- APPLY & OK

CONNECTING CLIENT TO SERVER

- **On *CLIENT* PC**

- ✓ Win key + R
- ✓ Type CMD
- ✓ Type IPCONFIG or ipconfig .
- ✓ Type ipconfig \release
 - Then wait
- ✓ **On the *Graphical Interface***
 - Click on NETWORK – Network and Sharing Center – Change adapter setting – Right Click - Local Area Connection(LAC) – Click on Disable then Enable.
- ✓ Type ipconfig \renew
 - Then wait again for the new **IP ADDRESS**



```
Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Owner>ipconfig /release

Windows IP Configuration

Ethernet adapter Wireless Network Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 0.0.0.0
    Subnet Mask . . . . . : 0.0.0.0
    Default Gateway . . . . . : 

C:\Documents and Settings\Owner>ipconfig /renew

Windows IP Configuration

Ethernet adapter Wireless Network Connection:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 172.16.31.33
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 172.16.31.254

C:\Documents and Settings\Owner>
```

The first command clears any "leftover" IP.

The second command finds the local wireless network and reconnects.

CONNECTING CLIENT TO SERVER

- On SERVER PC

(DOUBLE CHECK)

- ✓ START MENU – ADMIN. TOOLS – SERVER MANAGER – ROLES – DHCP – DOMAIN – IPV4 – SCOPE – ADDRESS LEASES – RIGHT CLICK ON COMPUTER – PROPERTIES – CHANGE SETTINGS – CLICK CHANGE – CLICK DOMAIN – TYPE DOMAIN USER & PASSWORD “ADMINISTRATOR” & “Cssh2@16” – Enter “WELCOME TO DOMAIN” – OK – OK – Restart
- ✓ Switch USER – USER