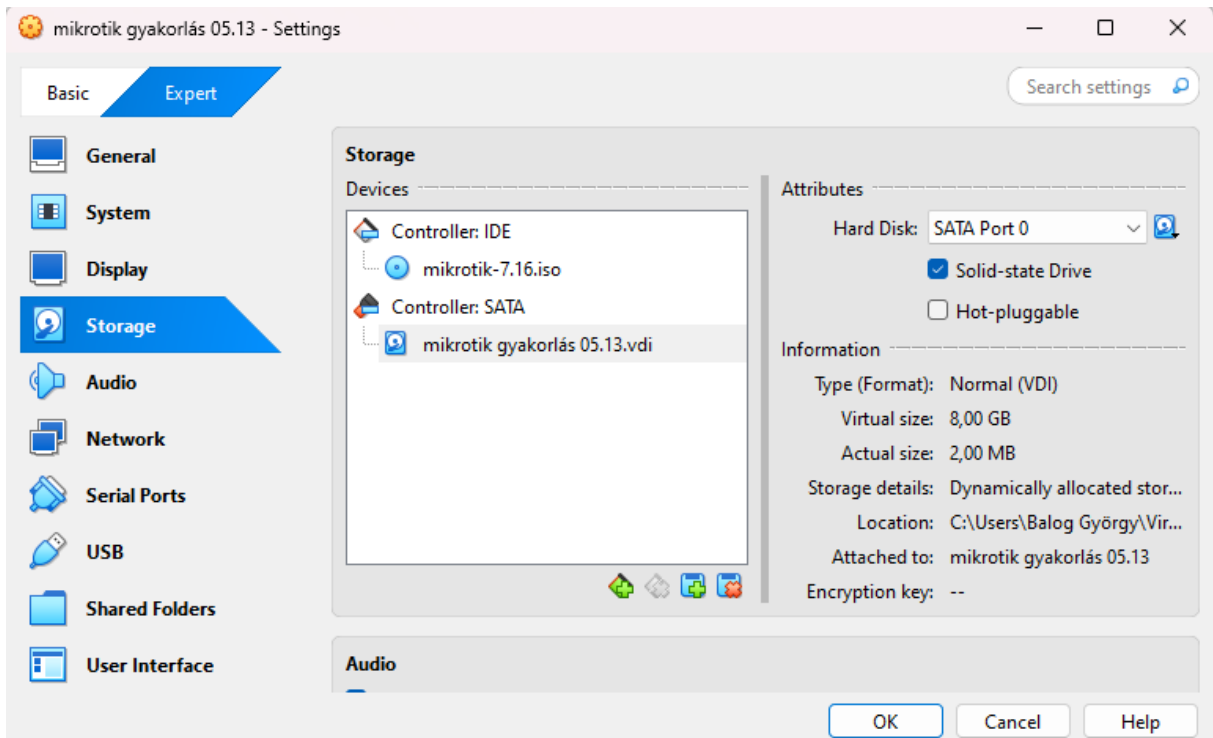
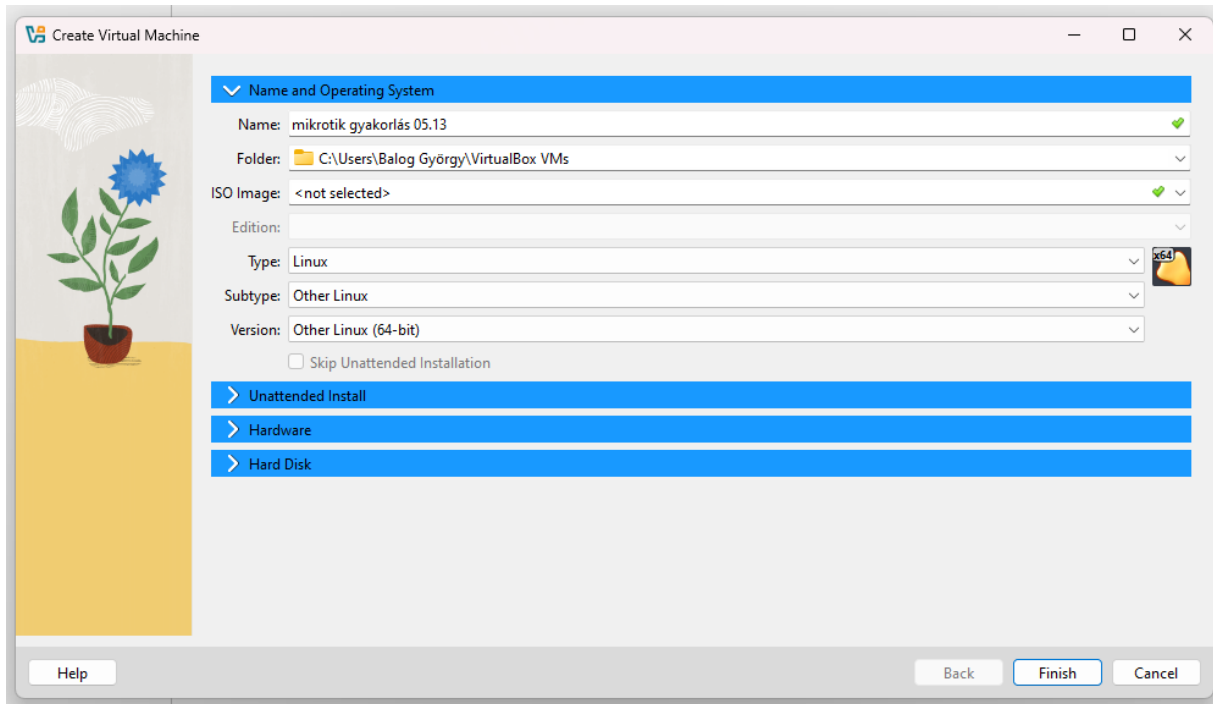
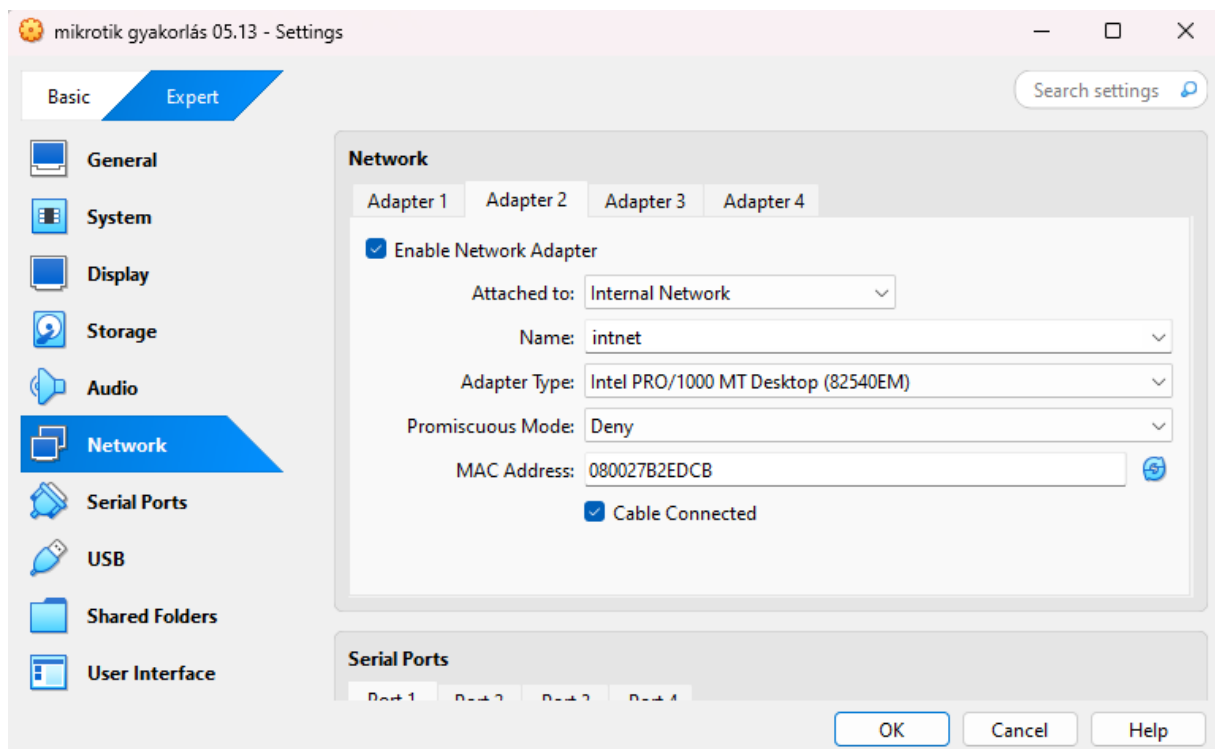
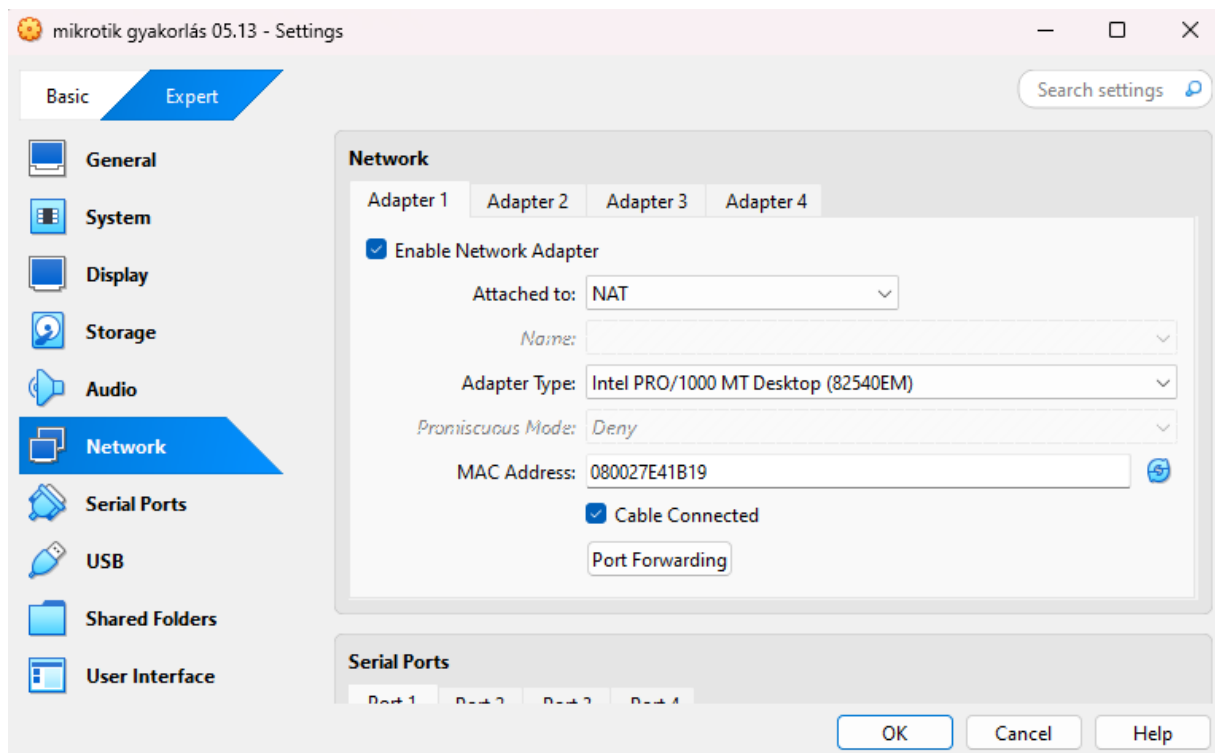
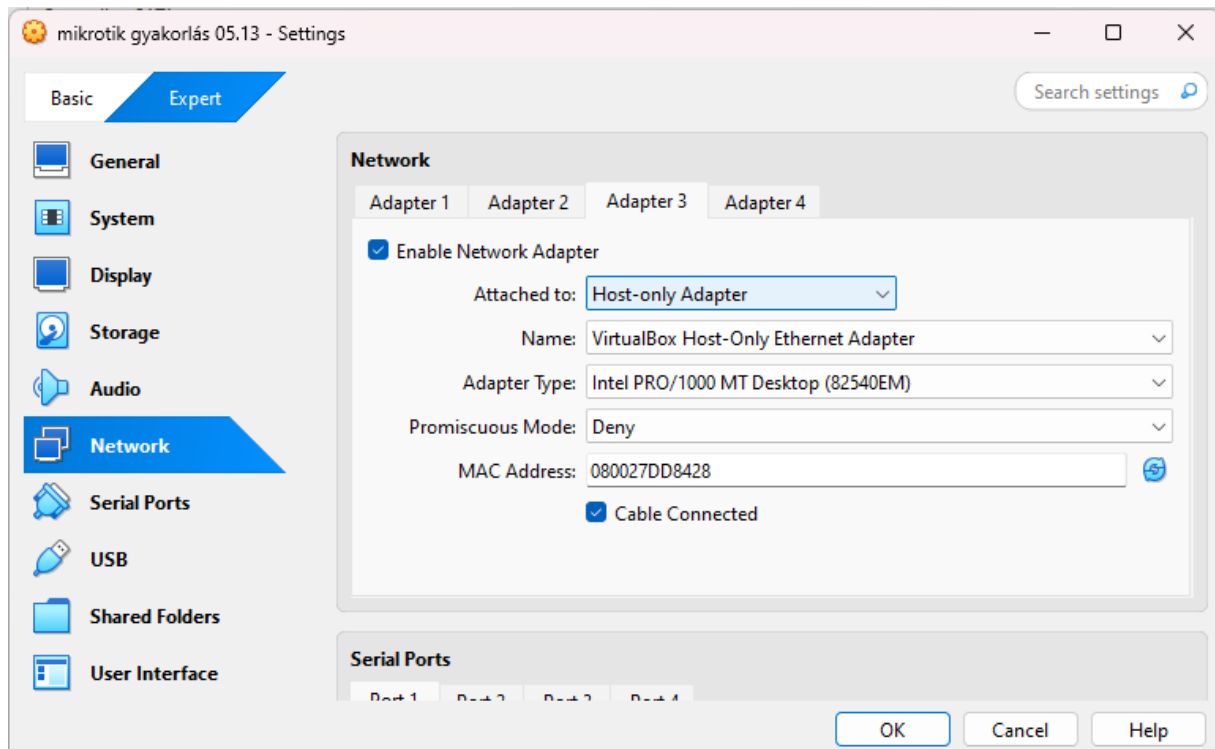


# Szerverer Legális Puska







interface/print

(Kilistázzuk az interfészeket)

```
ip/dhcp-client/add disabled=no interface=ether1
```

(DHCP-n keresztül IP címet kérünk az ether1 interfészre)

```
ip/address/add interface=ether2 address=172.16.0.1/16
```

(Fix IP-t állítunk az ether2 interfészre - ez lesz a gateway amit a hálózatban használunk)

```
ip/dhcp-client/add disabled=no interface=ether3
```

(DHCP-n keresztül IP címet kérünk az ether3 interfészre)

```
ip/address/print
```

(Listázzuk az IP címeket)

```
ip/firewall/nat/add chain=srcnat action=masquerade out-interface=ether1
```

(Beállítjuk a címfordítást, hogy a LAN oldali eszközök elérjék az internetet)

```
ip/firewall/nat/add chain=dstnat action=dst-nat in-interface=ether3 dst-  
port=50000 to-addresses=172.16.0.254 to-ports=3389 protocol=tcp
```

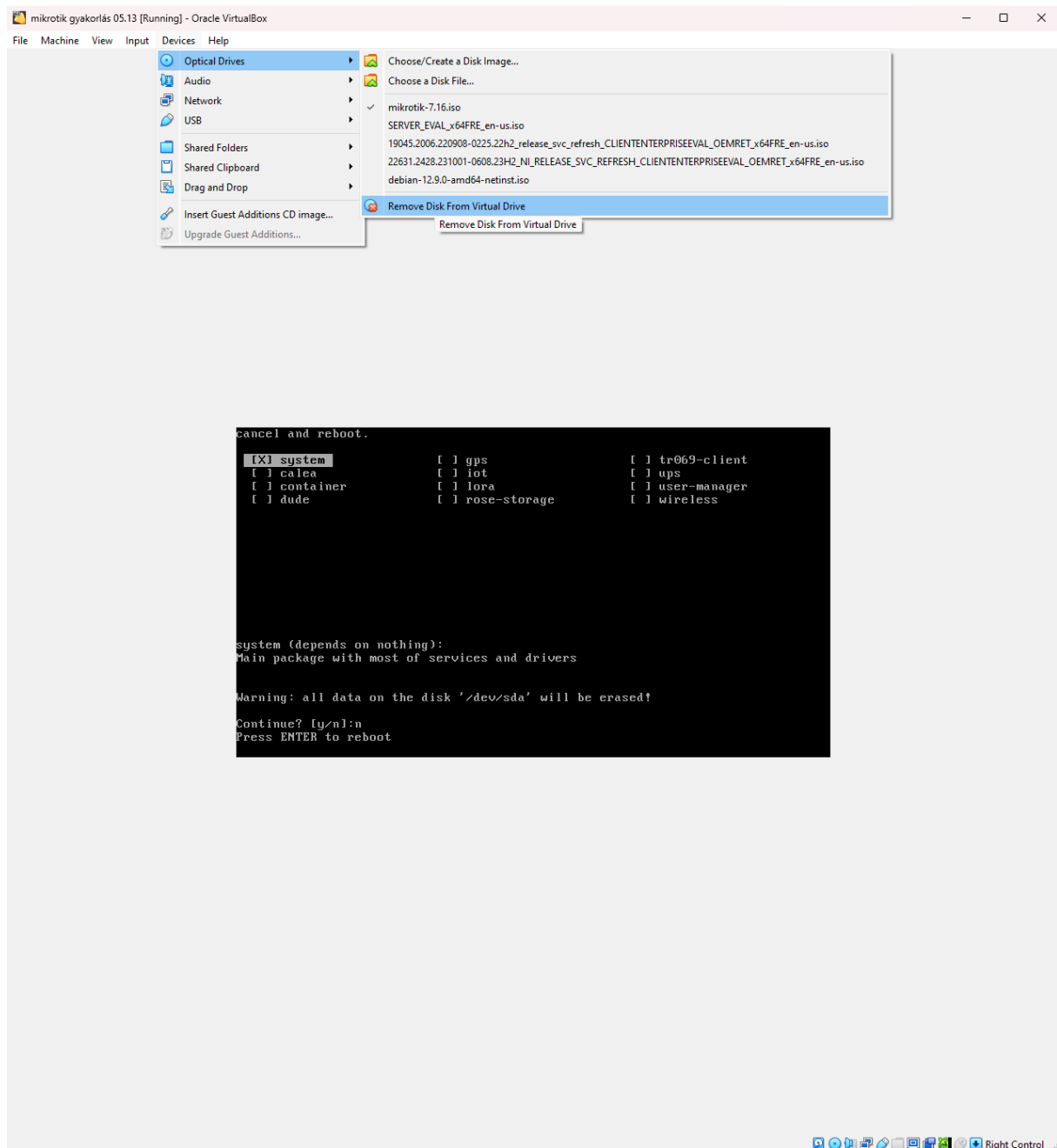
(Távoli asztal kapcsolathoz megnyitjuk a 3389-es portot, így a szerverhez tudunk majd az 50000-es porton keresztül kapcsolódni a gazdagépről)

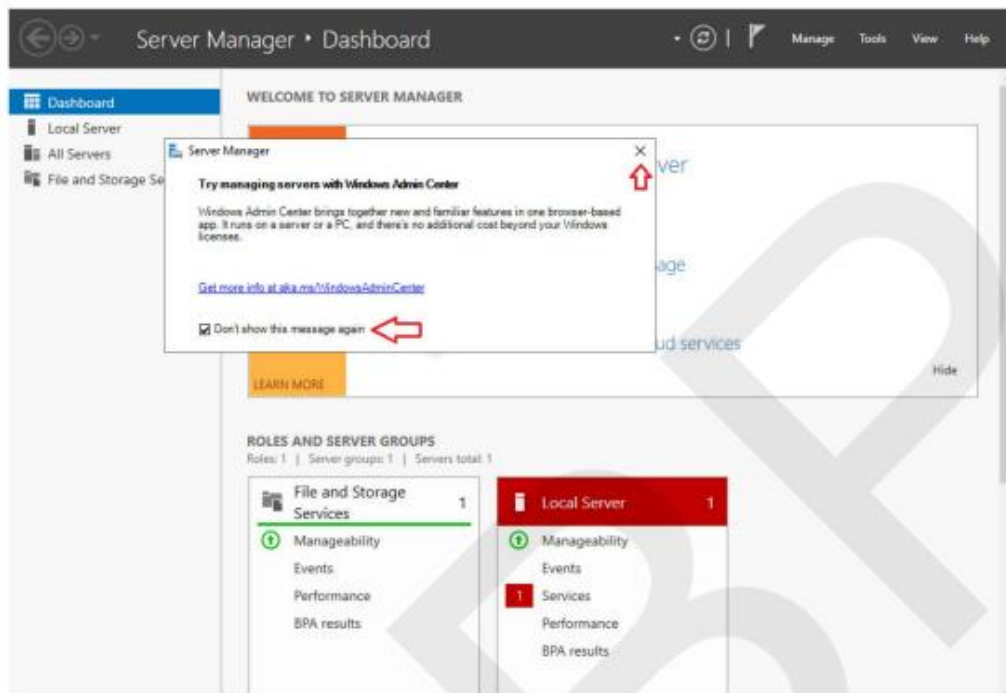
```
ip/firewall/nat/print
```

(Listázzuk ki a tűzfalbeállításokat)

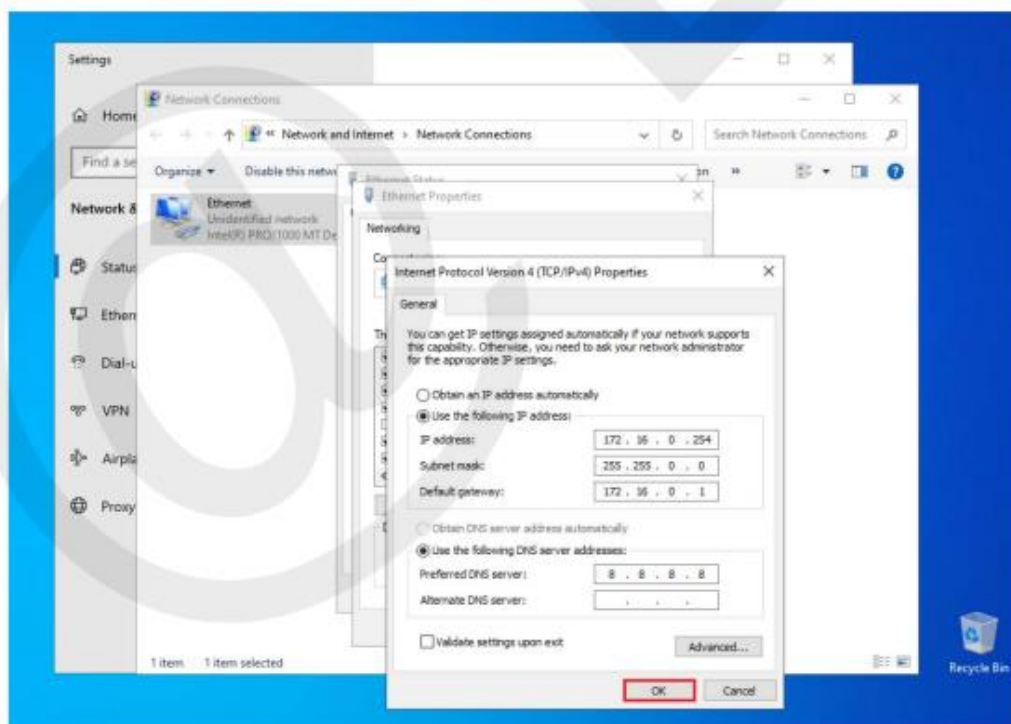
A MikroTik router újraindítása: `system/reboot`

A Mikrotik router leállítása: `system/shutdown`





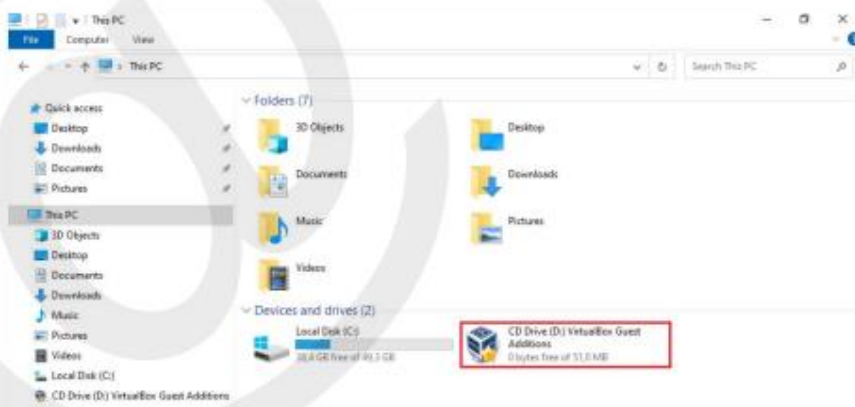
## 2.2 A szerver kezdeti konfigurálása

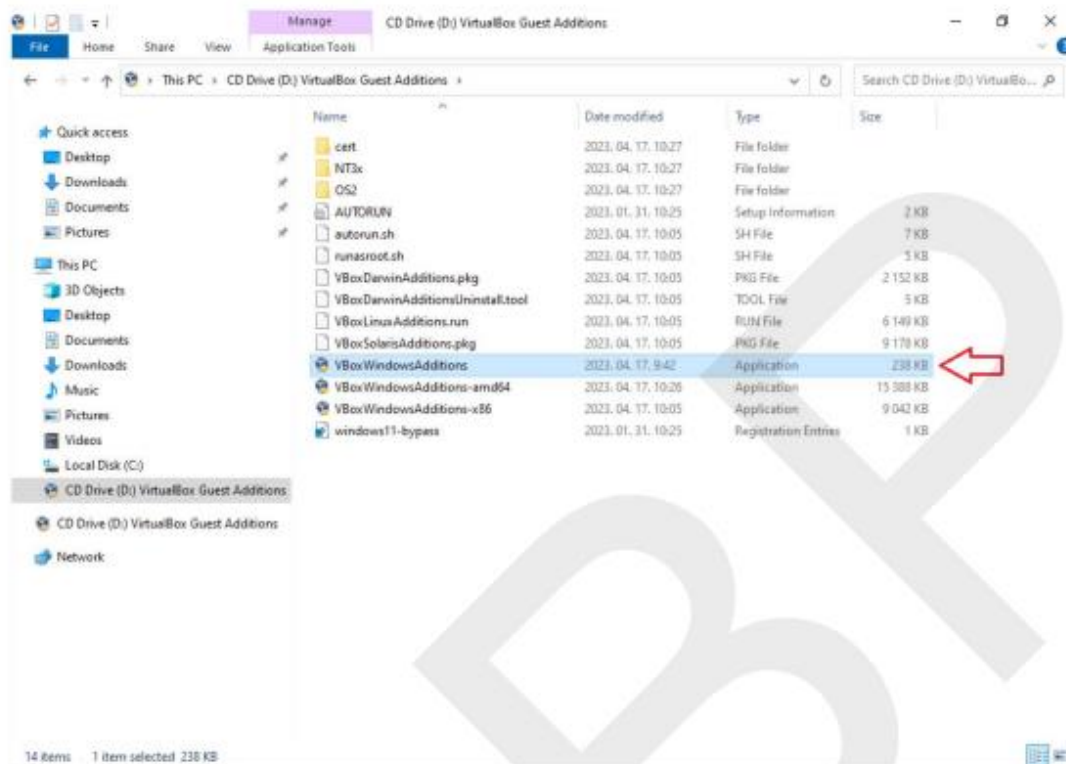


adjuk meg a fix IP cím paramétereit a szervernek

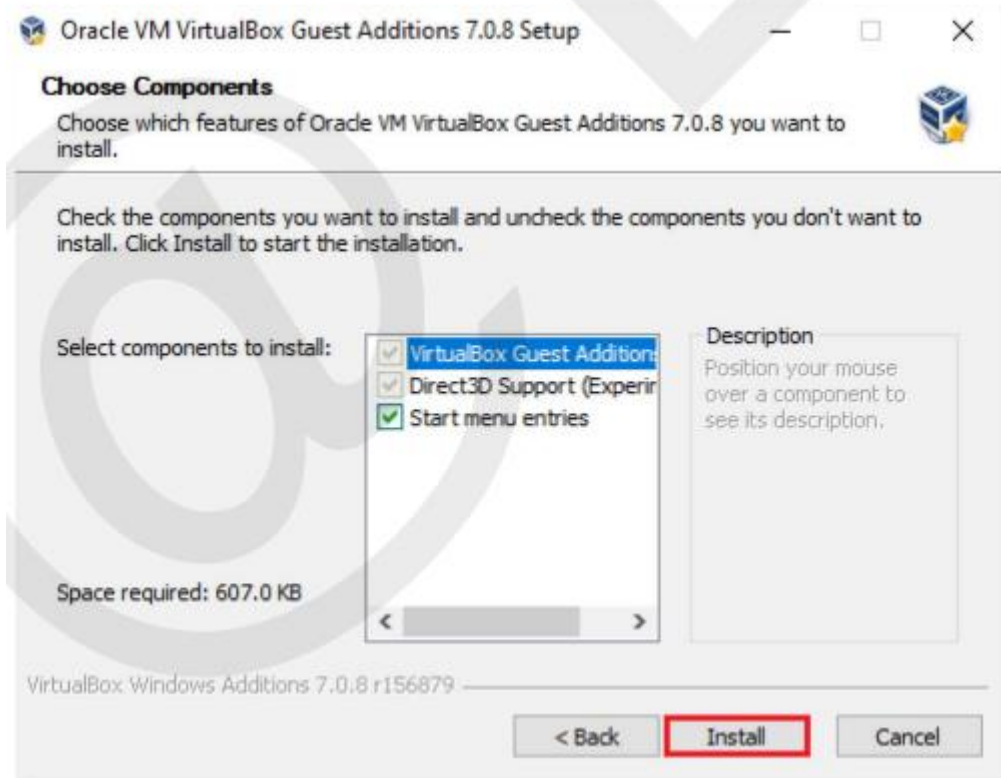
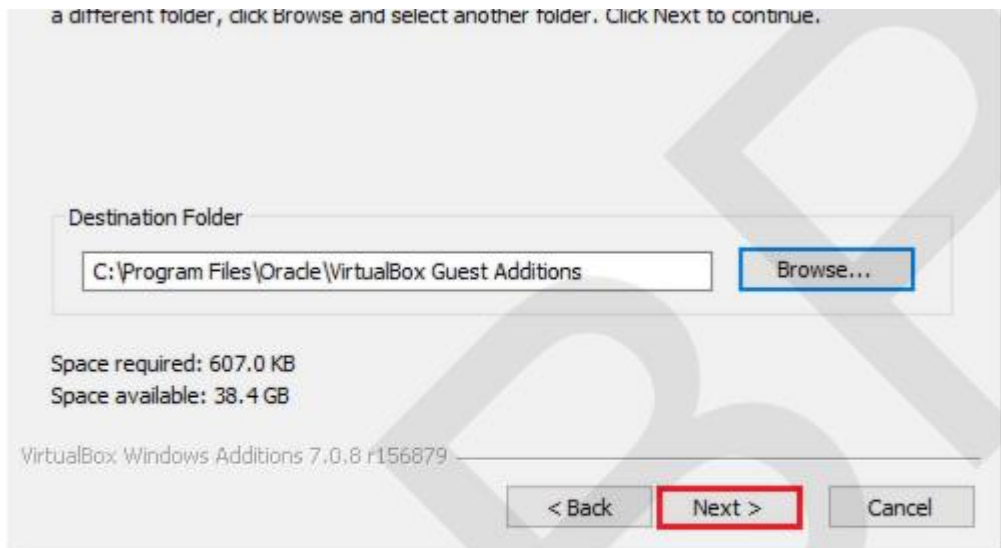
### Telepítsük a „Guest Additions” kiegészítőt:

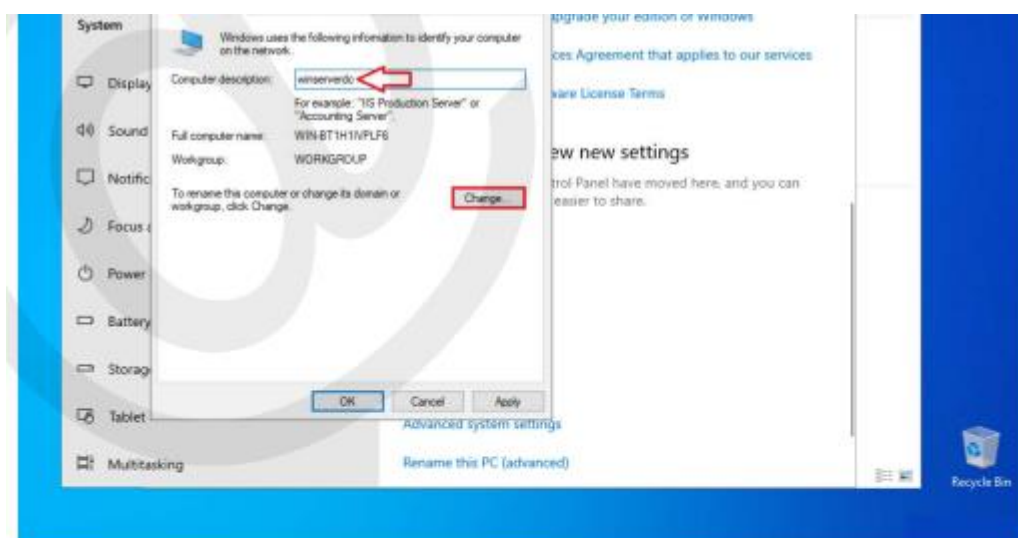
A VirtualBox Guest Additions olyan illesztőprogramok és segédprogramok készlete, amelyek javítják a VirtualBox-ban futó vendég operációs rendszerek teljesítményét és használhatóságát. Ezek a kiegészítések olyan funkciókat biztosítanak, mint a jobb megjelenítési felbontás, az egér integrációja és fájlmegosztás a gazdagép és a vendégrendszerek között.



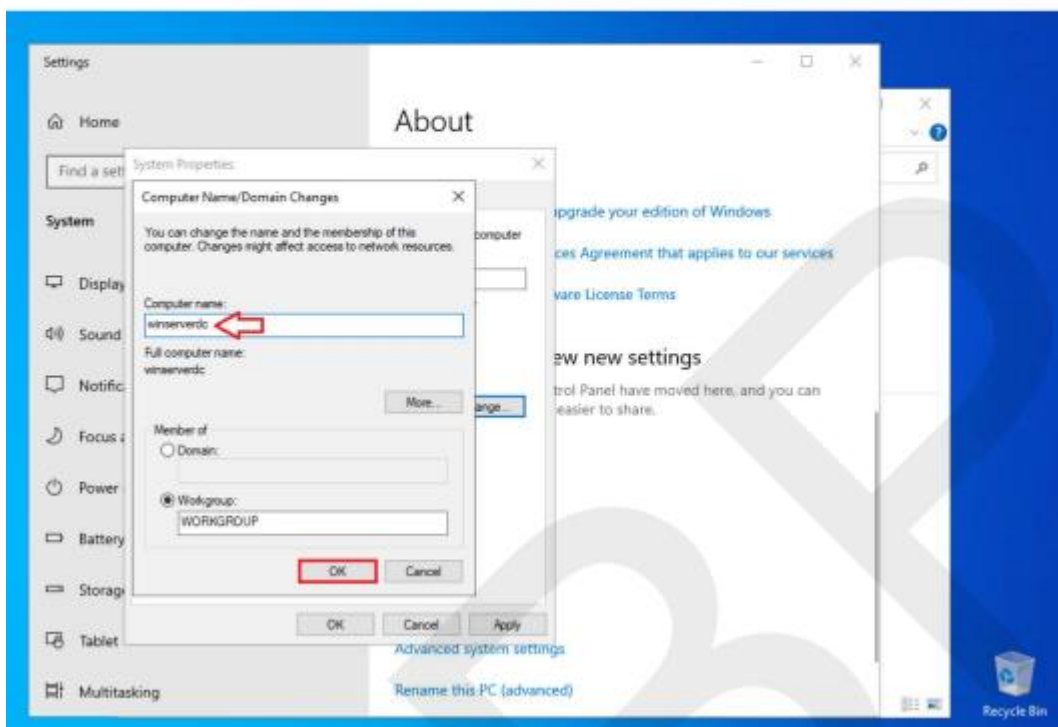


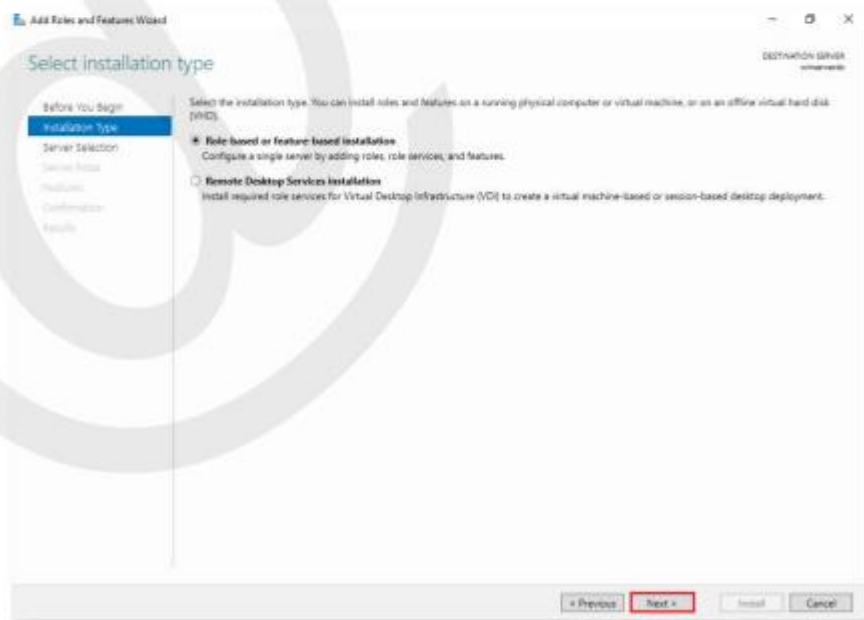
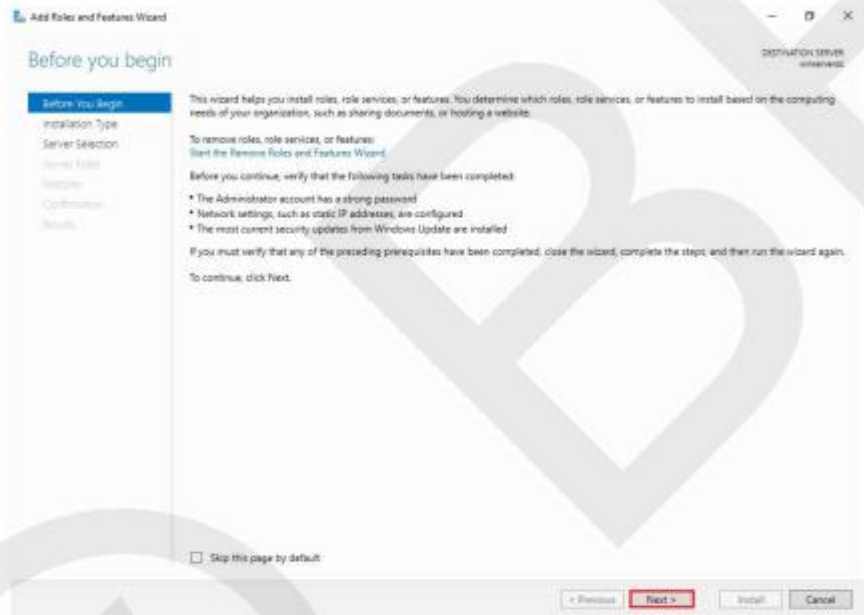
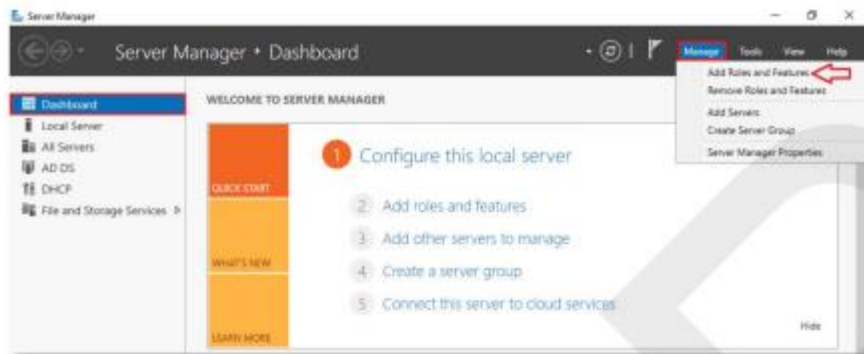


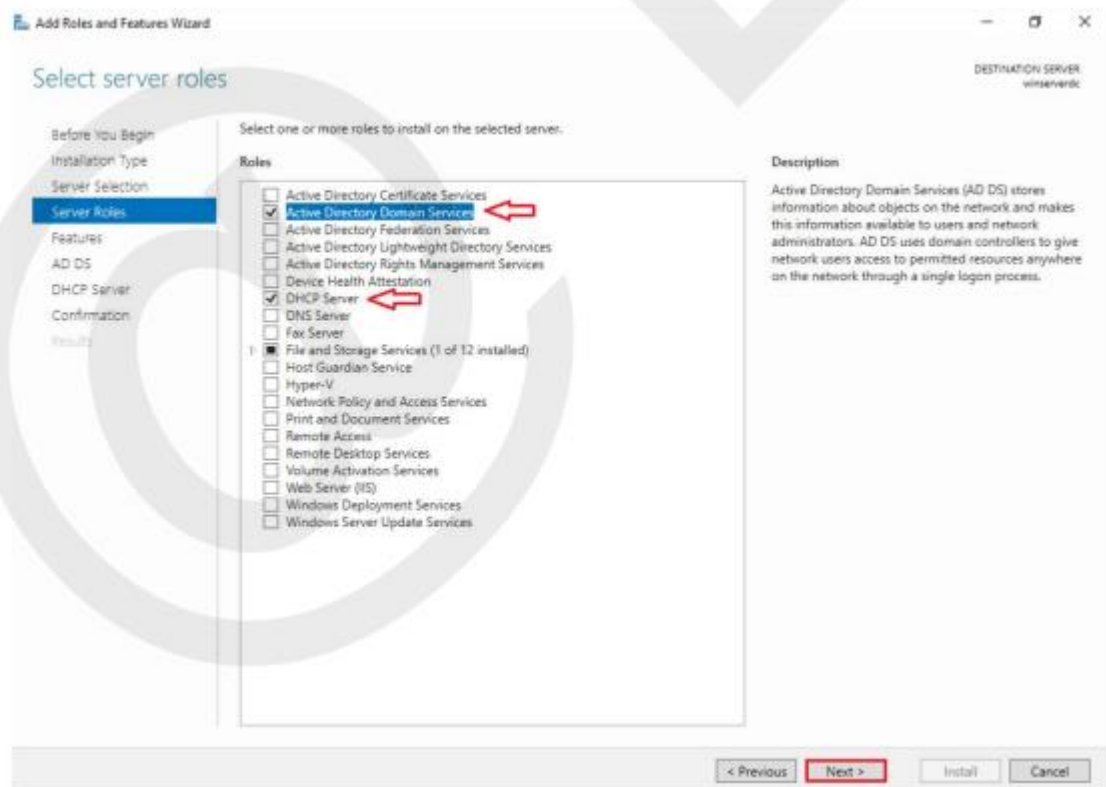
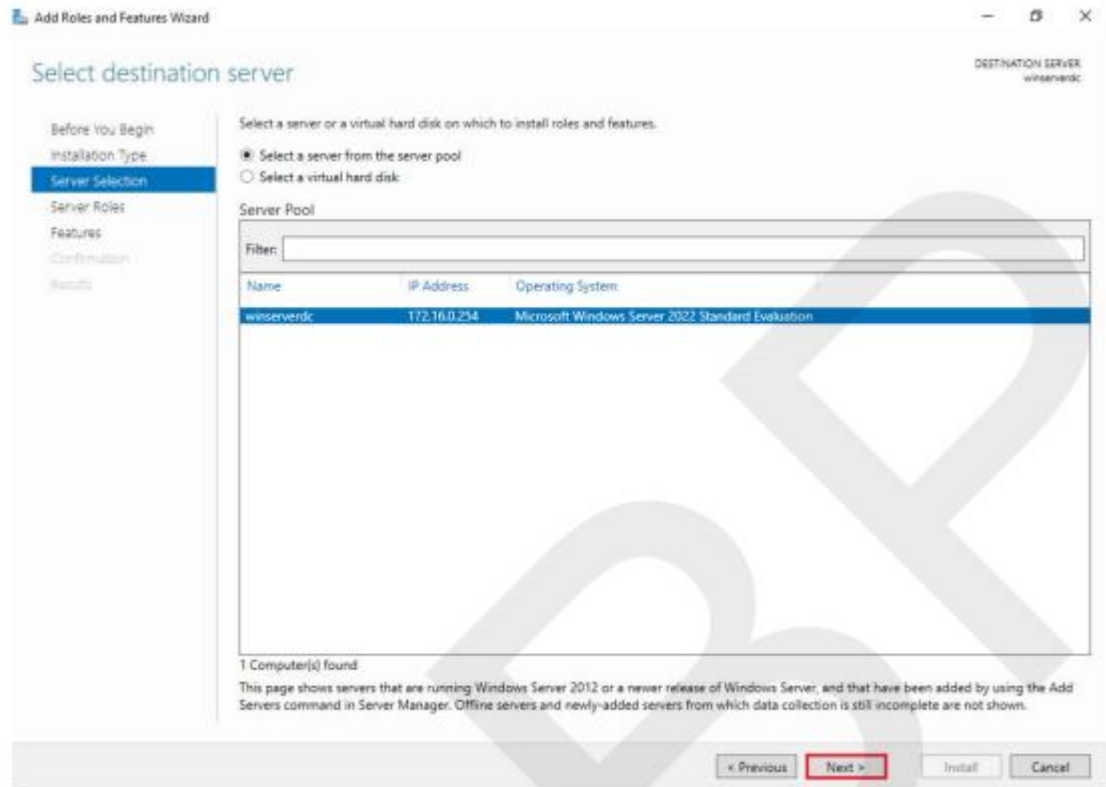


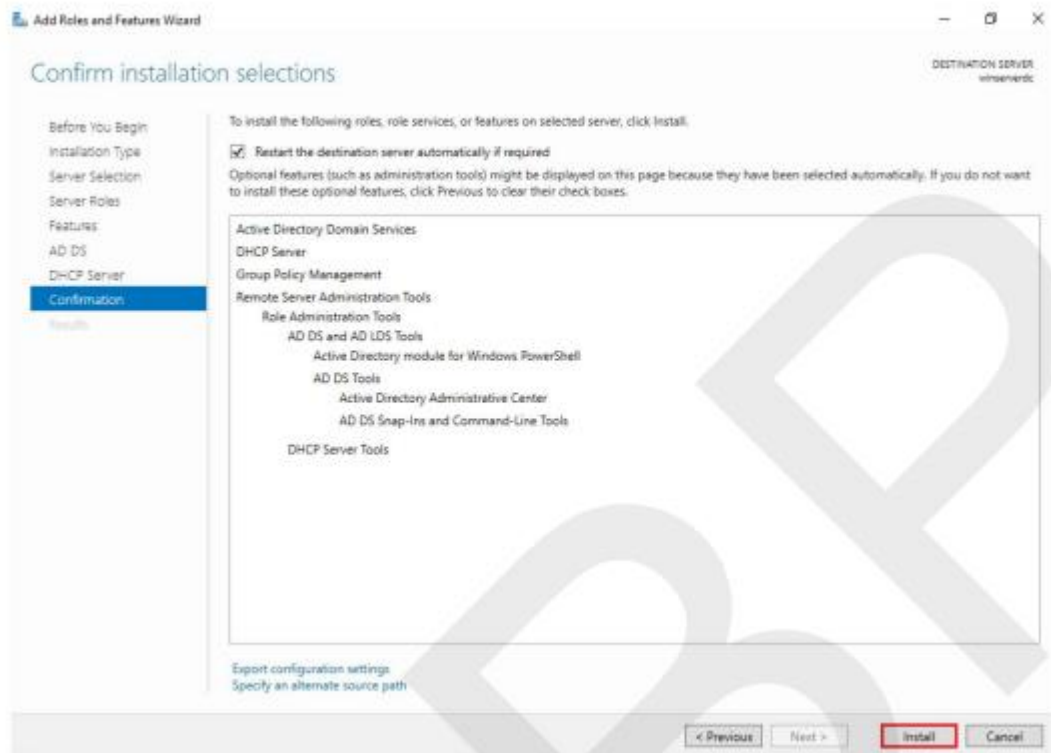
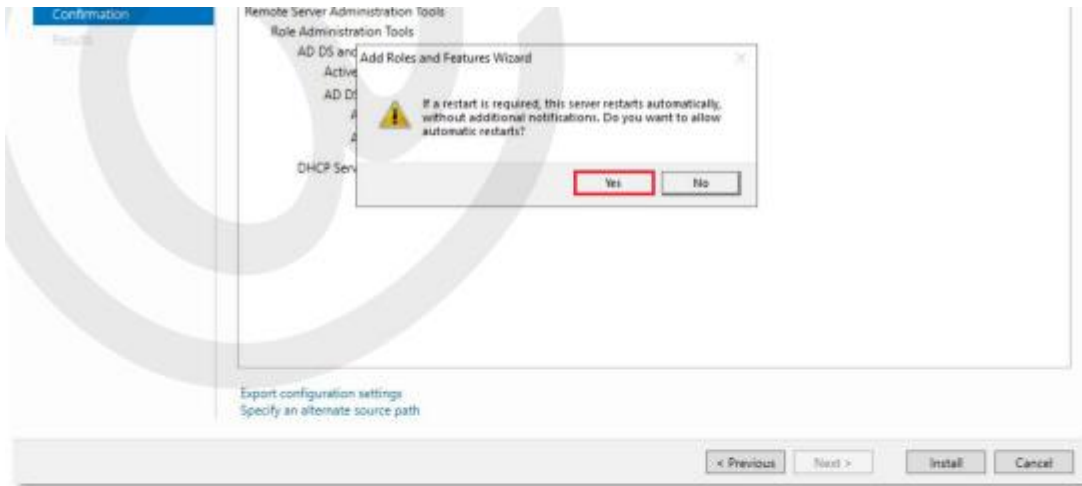


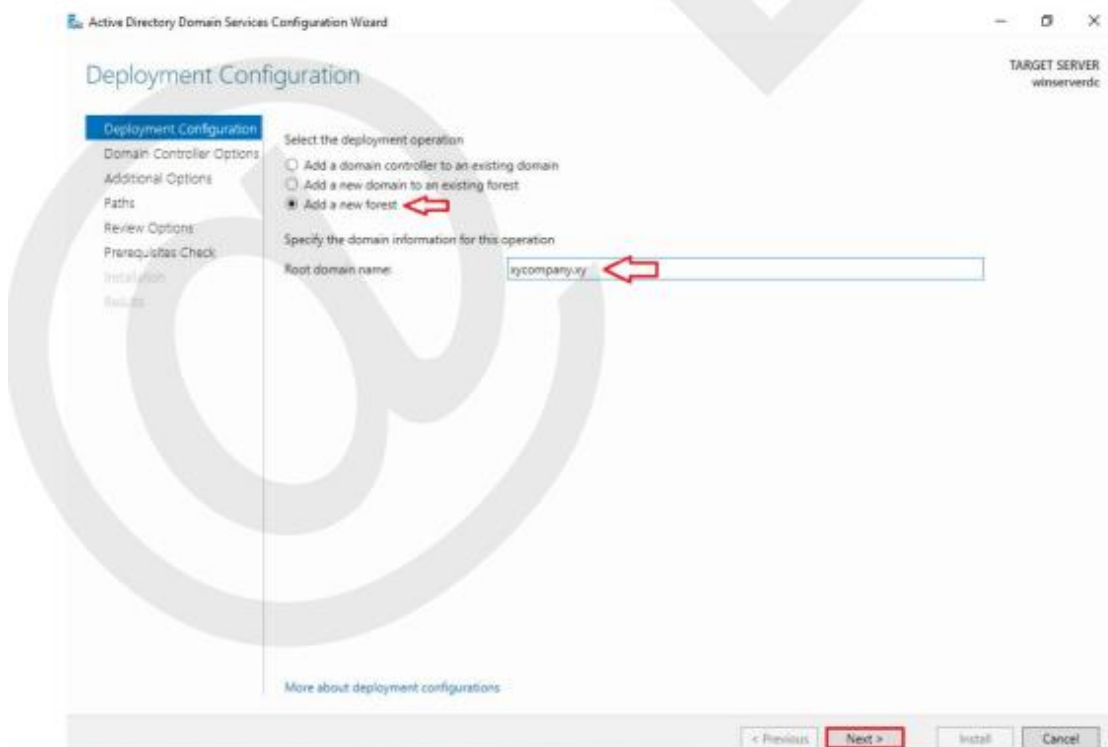
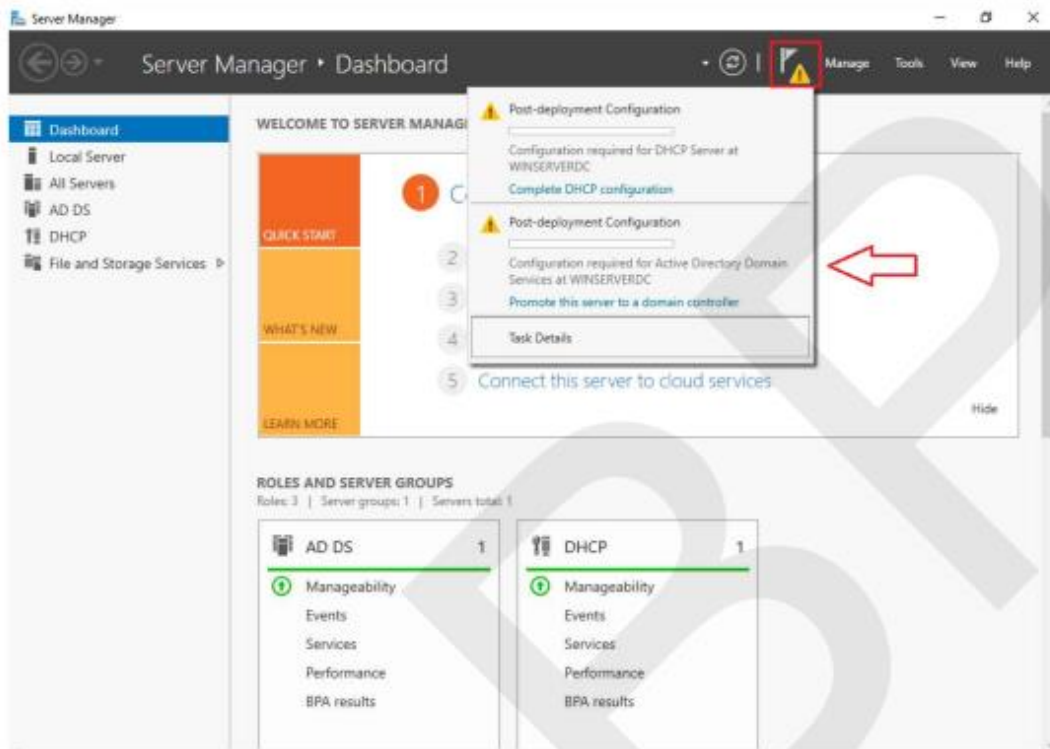
nyissuk meg a „view advanced system settings” beállítást  
a „Computer Name” fülön: **computer description:** winserverdc











Domain Controller Options

Select functional level of the new forest and root domain

Forest functional level: Windows Server 2016

Domain functional level: Windows Server 2016

Specify domain controller capabilities

☒ Domain Name System (DNS) server

☒ Global Catalog (GC)

☐ Read only domain controller (RODC)

Type the Directory Services Restore Mode (DSRM) password

Password: .....

Confirm password: .....

More about domain controller options

< Previous Next > Install Cancel

**DSRM jelszó: #Aa123456789@**

Active Directory Domain Services Configuration Wizard

DNS Options

Deployment Configuration

Domain Controller Options

DNS Options

Additional Options

Paths

Review Options

Prerequisites Check

Installation

Results

Specify DNS delegation options

☐ Create DNS delegation

TARGET SERVER  
winservdc

More about DNS delegation

< Previous Next > Install Cancel

Active Directory Domain Services Configuration Wizard

Additional Options

TARGET SERVER  
winsrvr01c

Deployment Configuration  
Domain Controller Options  
DNS Options  
Additional Options  
Paths  
Review Options  
Prerequisites Check  
Installation  
Results

Verify the NetBIOS name assigned to the domain and change it if necessary

The NetBIOS domain name: XYCOMPANY

More about additional options

< Previous Next > Install Cancel

Active Directory Domain Services Configuration Wizard

Paths

TARGET SERVER  
winsrvr01c

Deployment Configuration  
Domain Controller Options  
DNS Options  
Additional Options  
Paths  
Review Options  
Prerequisites Check  
Installation  
Results

Specify the location of the AD DS database, log files, and SYSVOL

Database folder: C:\Windows\NTDS

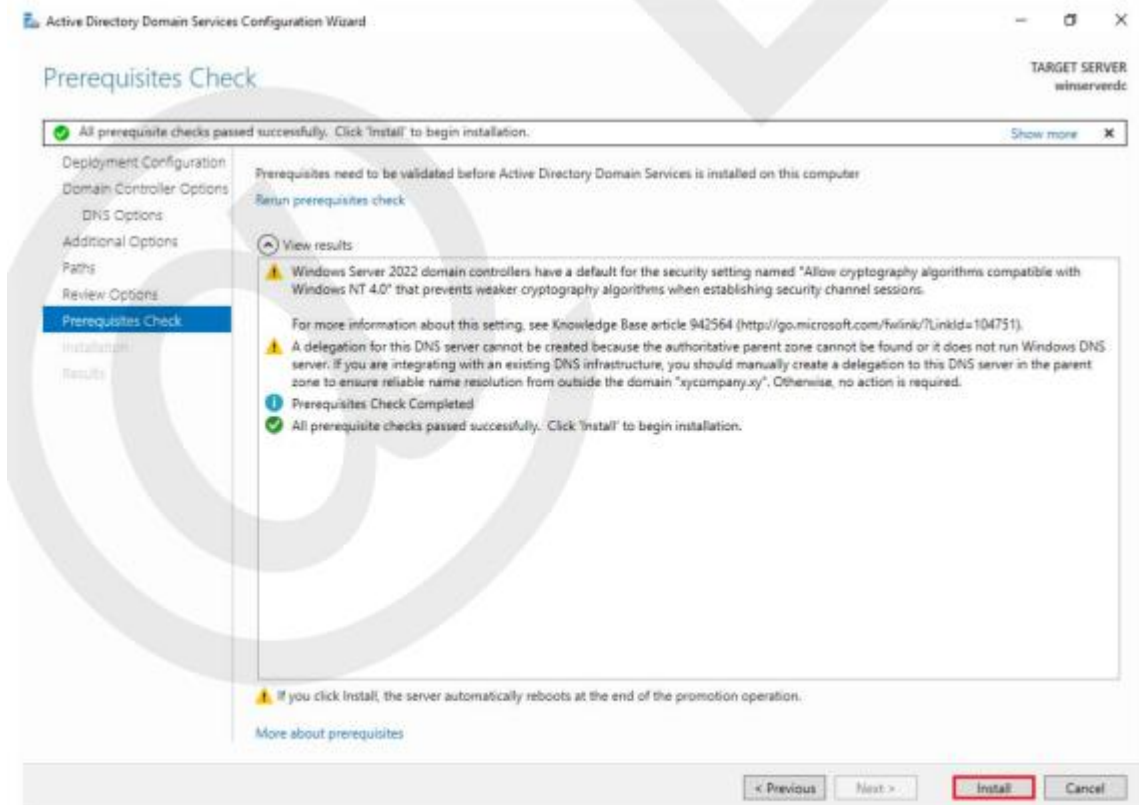
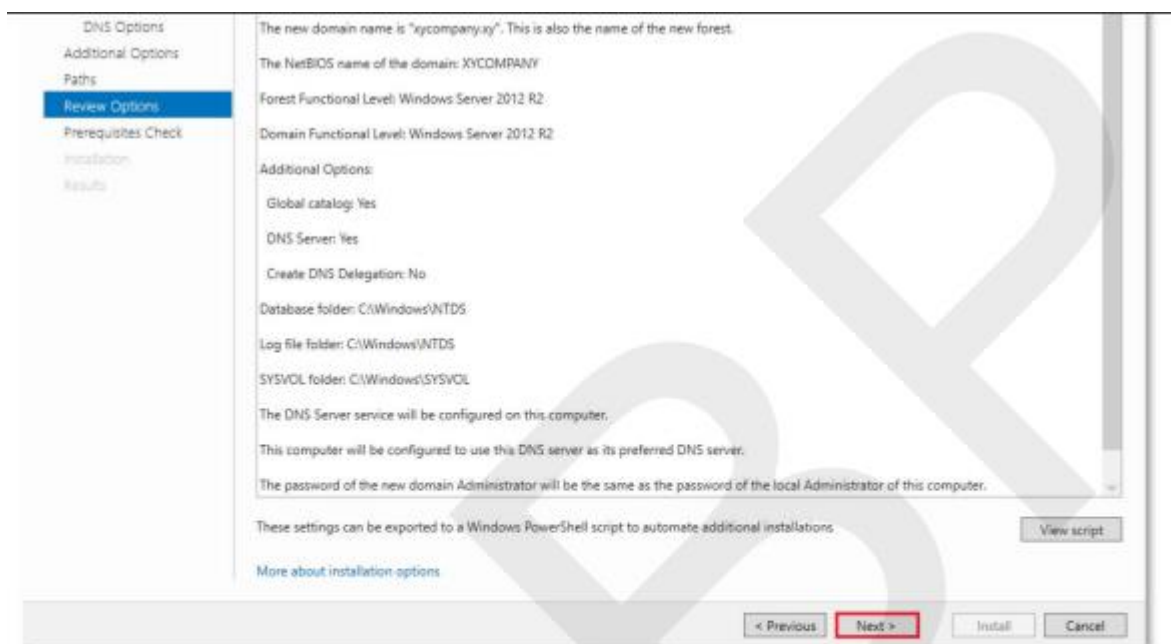
Log files folder: C:\Windows\NTDS

SYSVOL folder: C:\Windows\SYSVOL

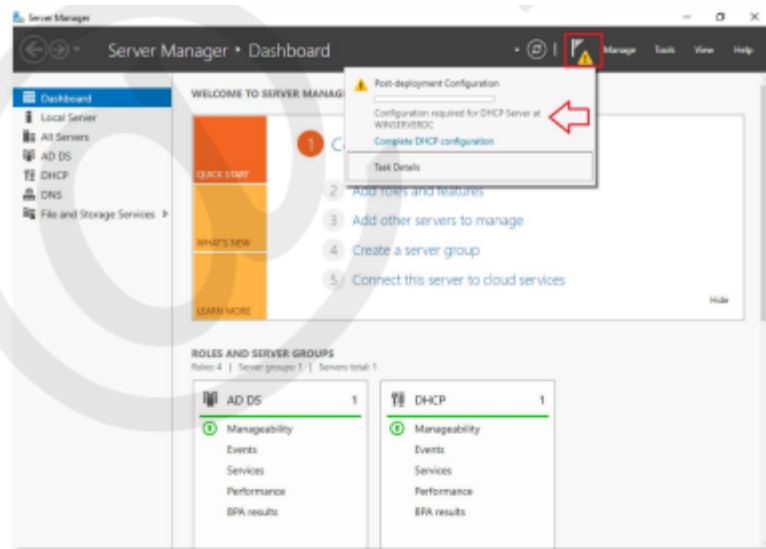
More about Active Directory paths

< Previous Next > Install Cancel



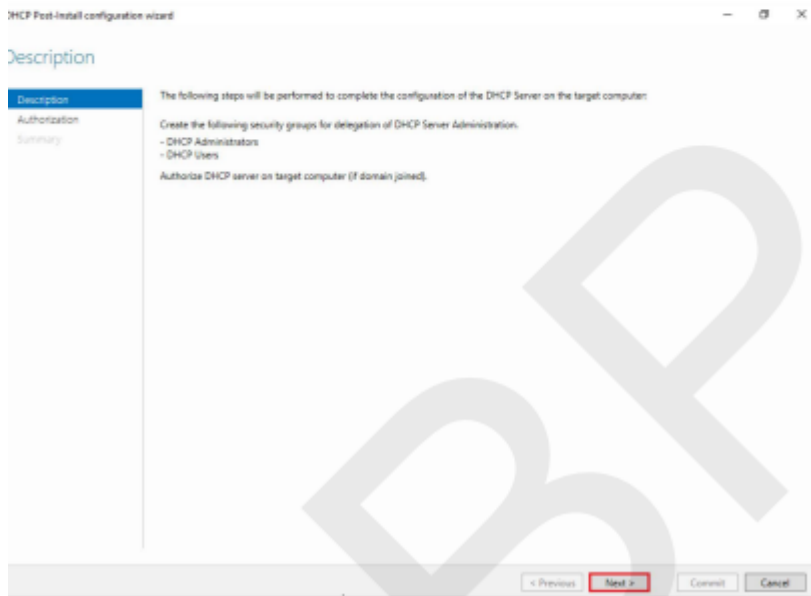


a telepítés befejezése után újra fog indulni a virtuális gép



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AD AUTHORIZATION

Description: Specify the credentials to be used to authorize this DHCP server in AD DS.

Authorization

Summary

☒ Use the following user's credentials

User Name: XYCOMPANY\Administrator

☐ Use alternate credentials

Username: Specify...

☐ Skip AD authorization

< Previous Next > Commit Cancel

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DHCP Post-Install configuration wizard

Summary

Description: Authorization

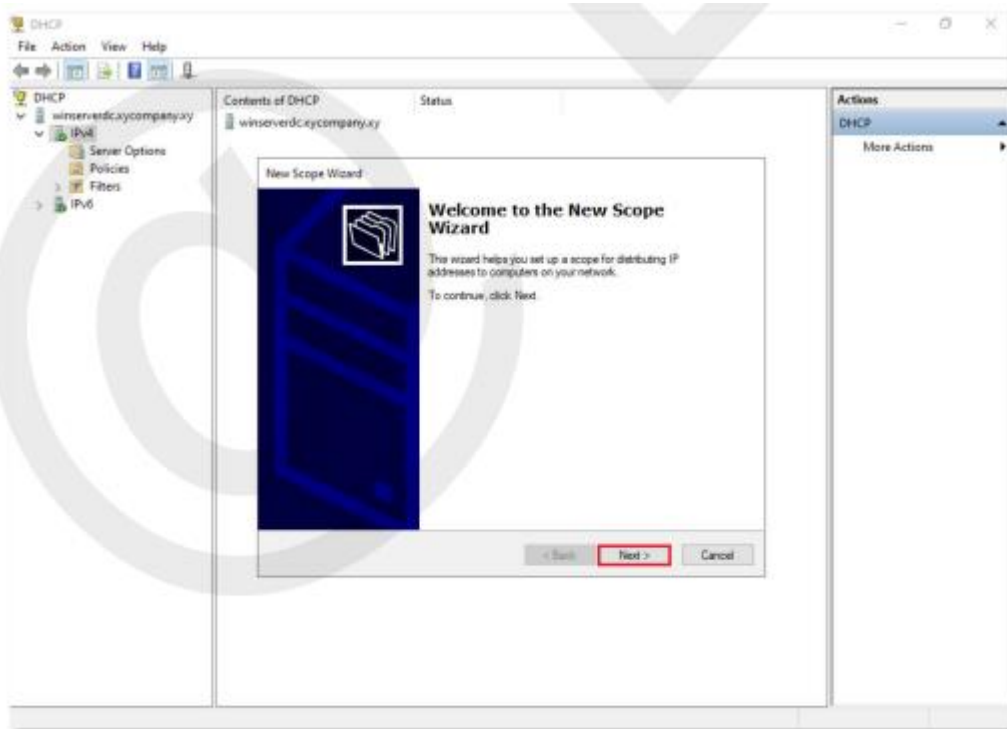
Summary

The status of the post install configuration steps are indicated below:

Creating security groups	Done
Please restart the DHCP server service on the target computer for the security groups to be effective.	
Authorizing DHCP server	Done

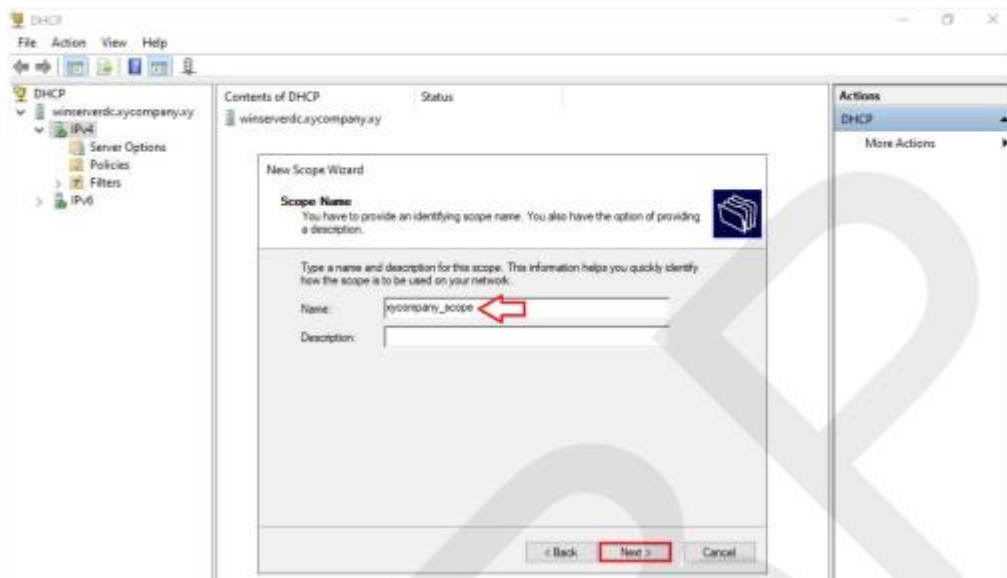
< Previous Next > Close Cancel

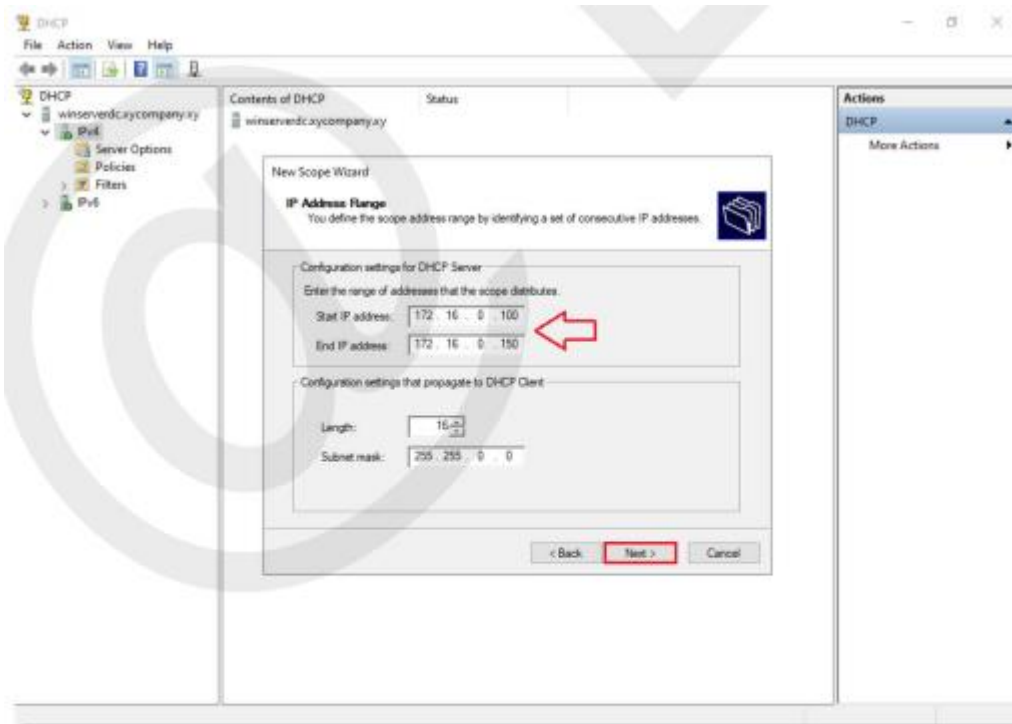




40

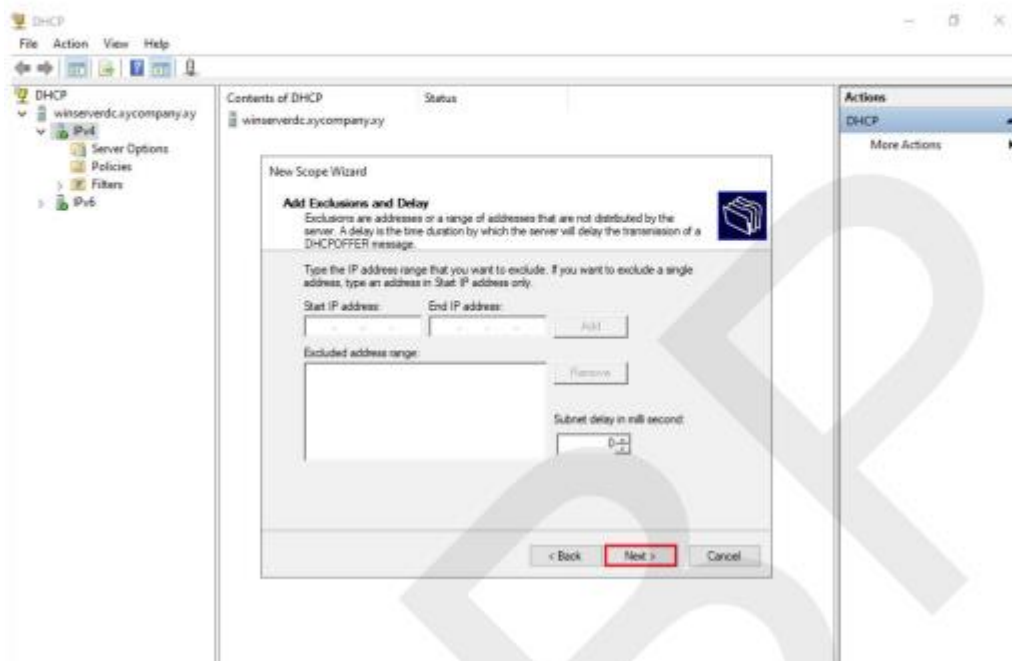
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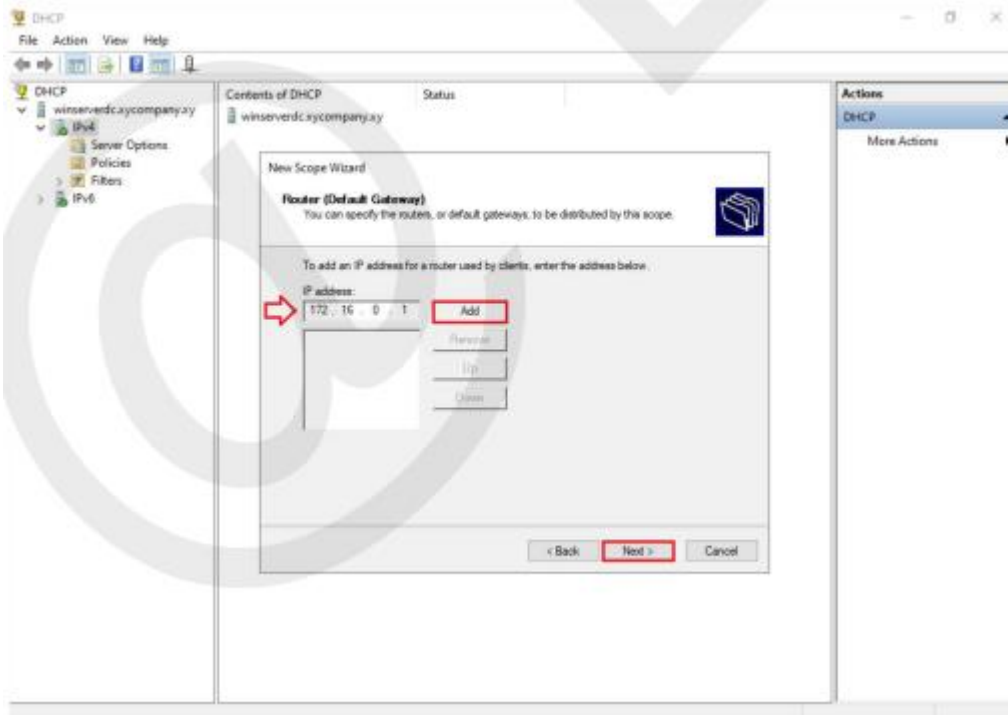
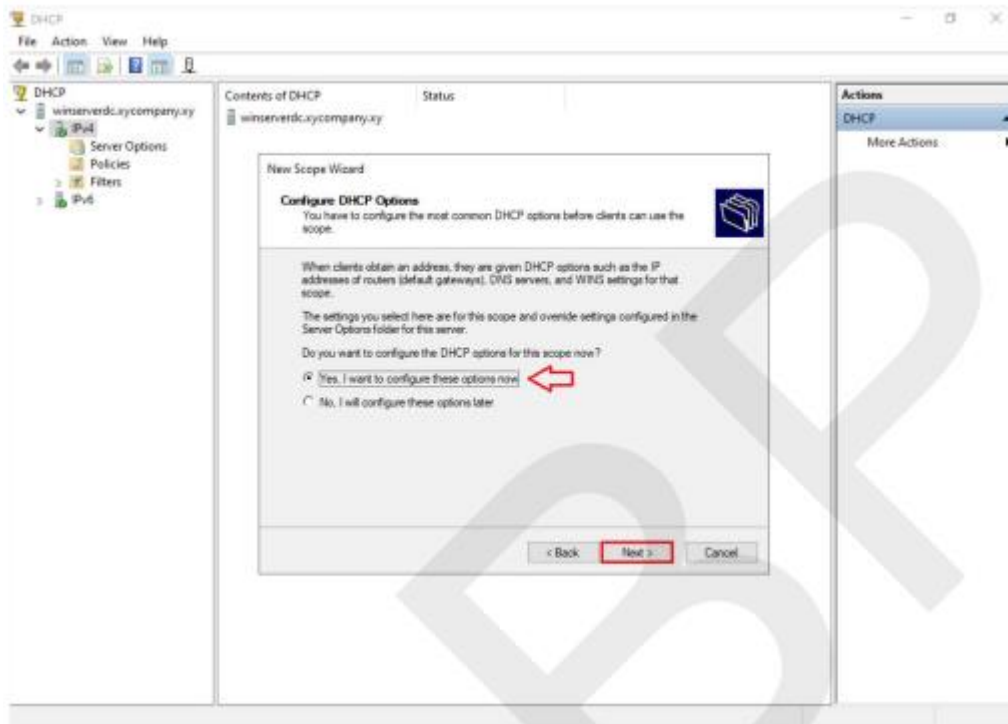


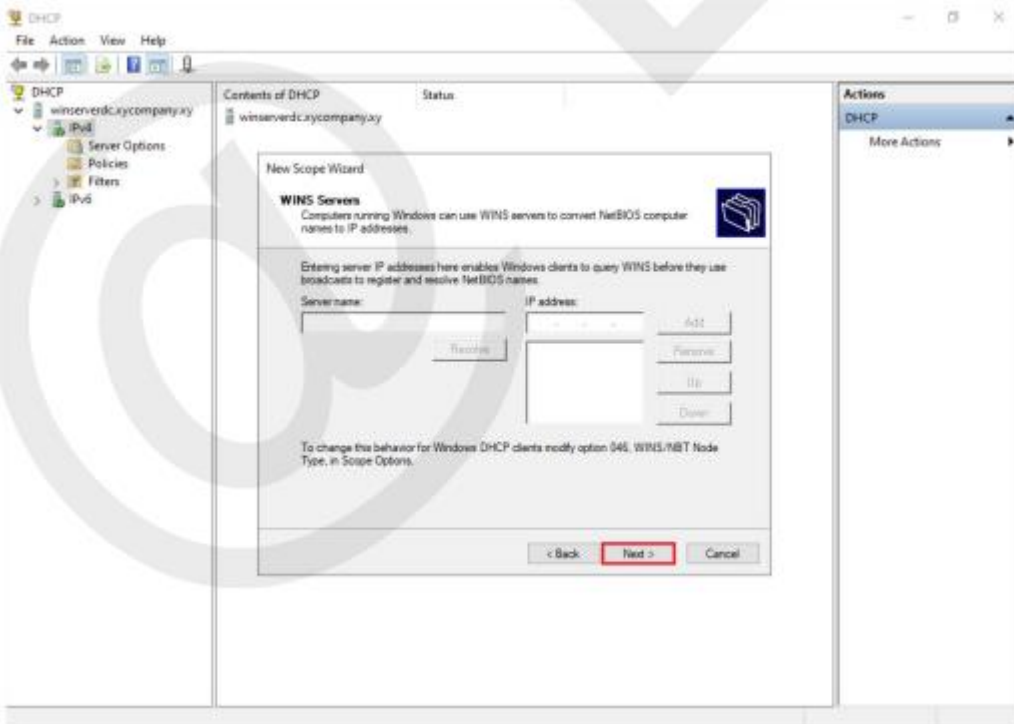
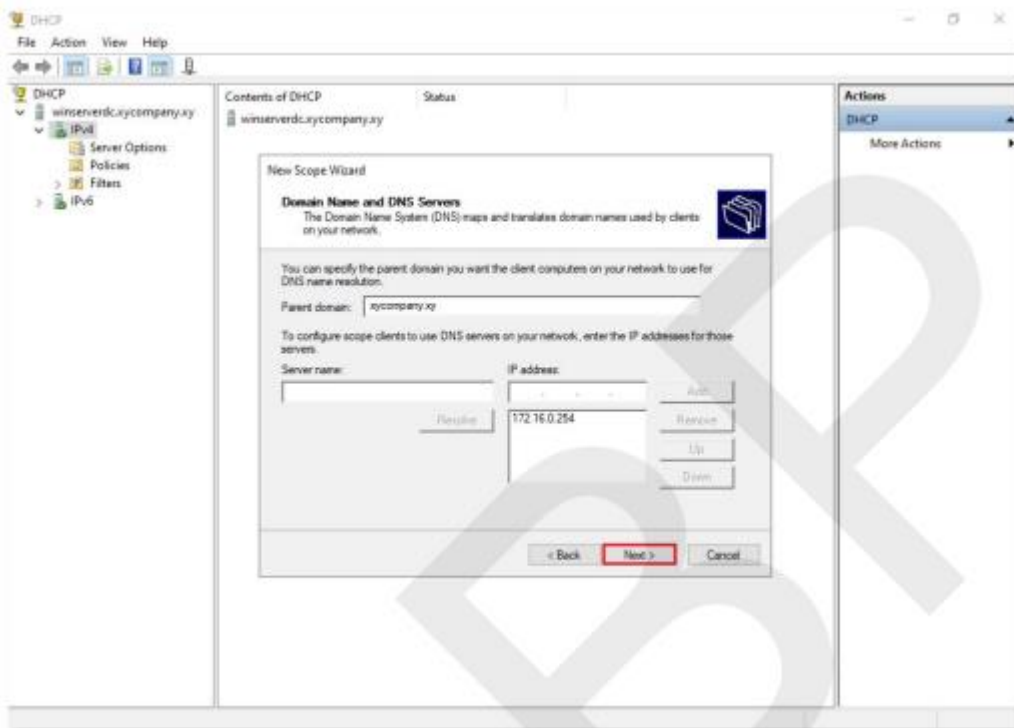


41

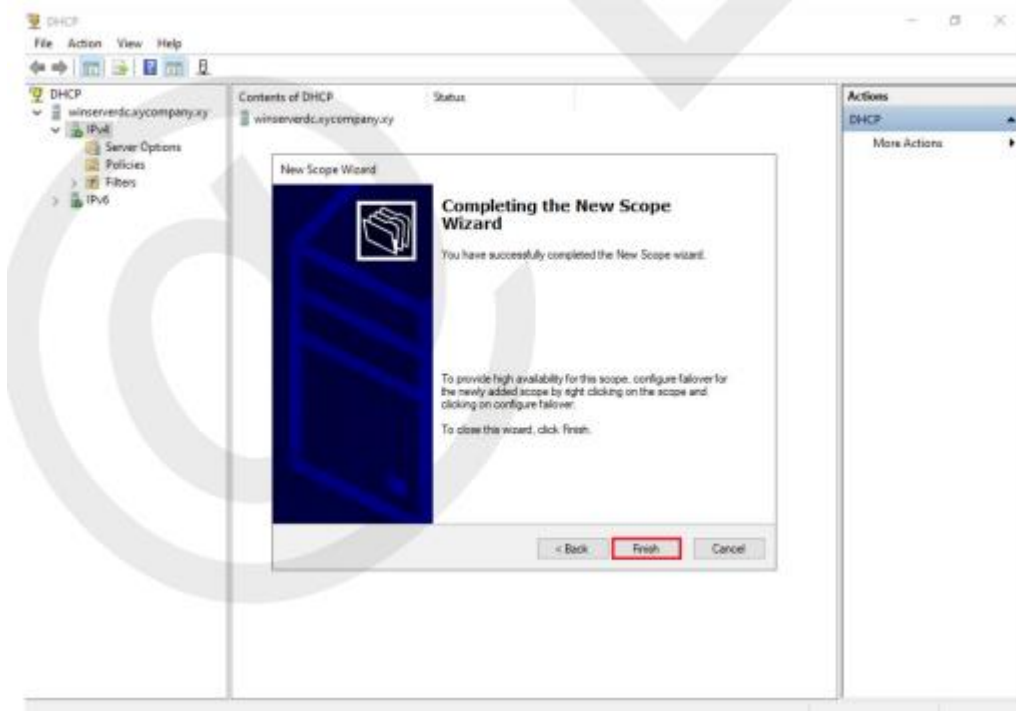
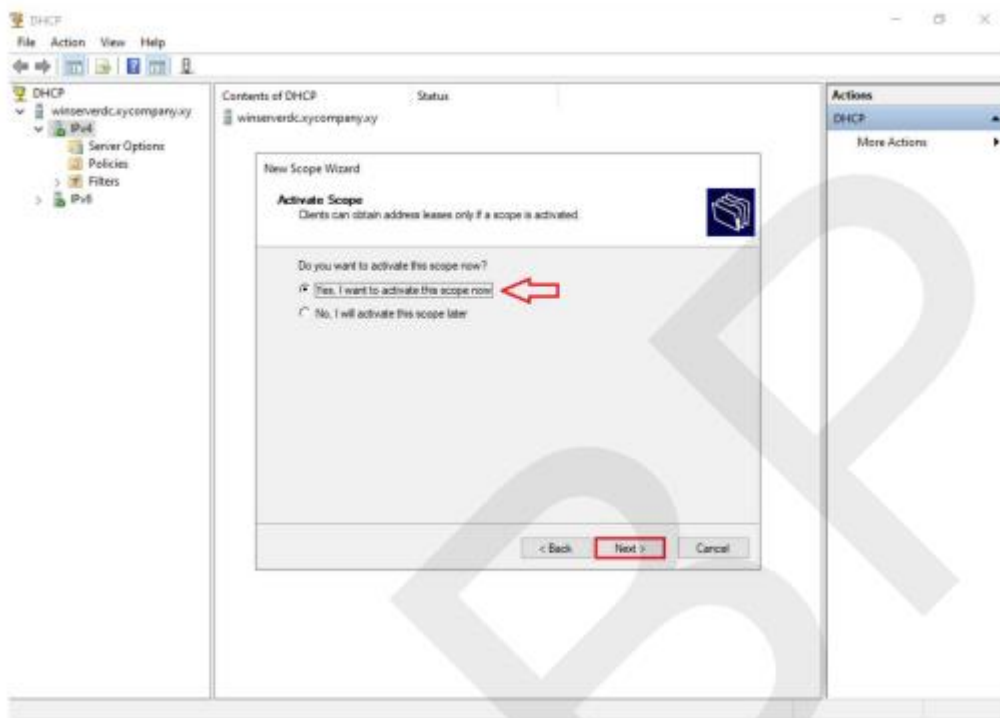
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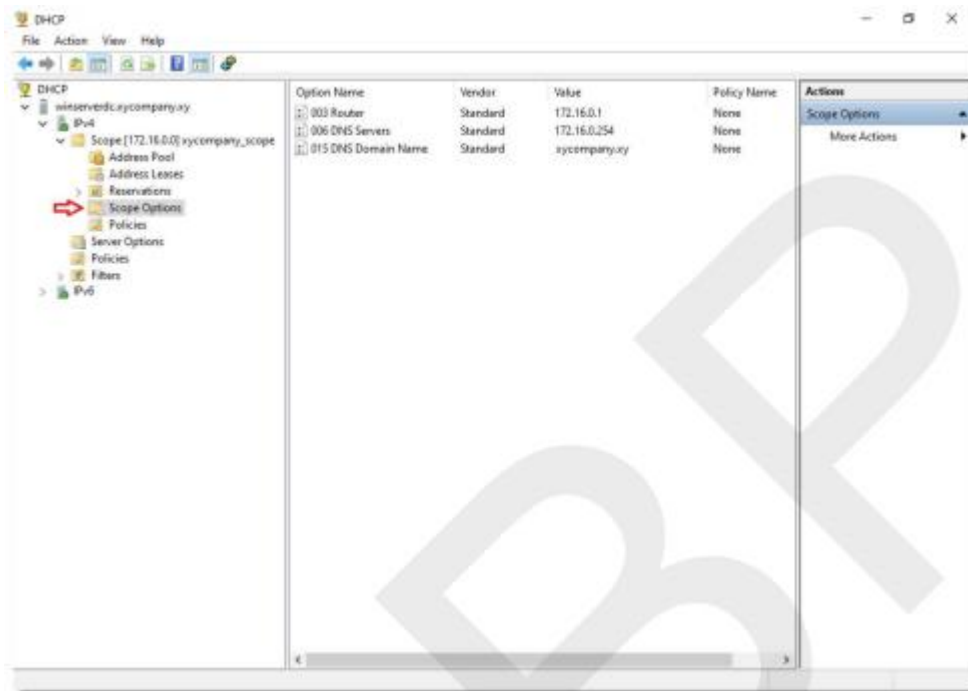




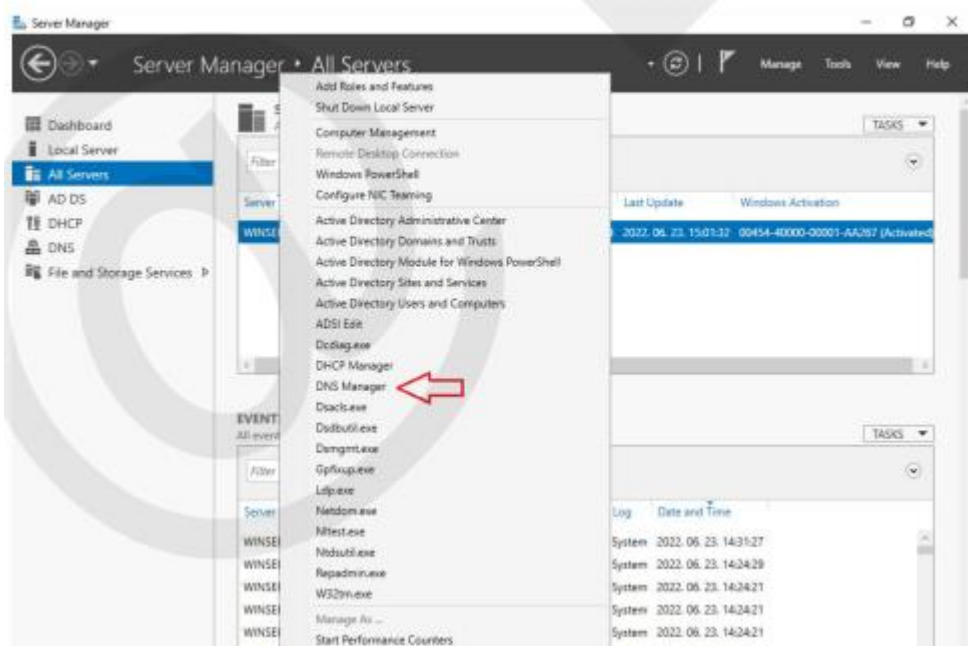


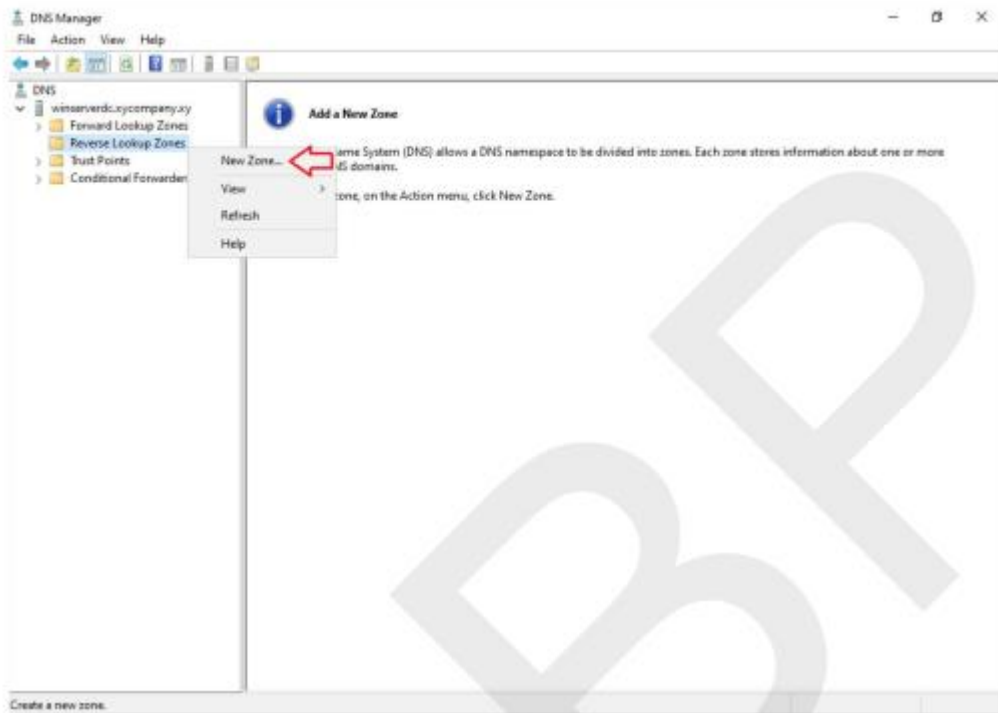


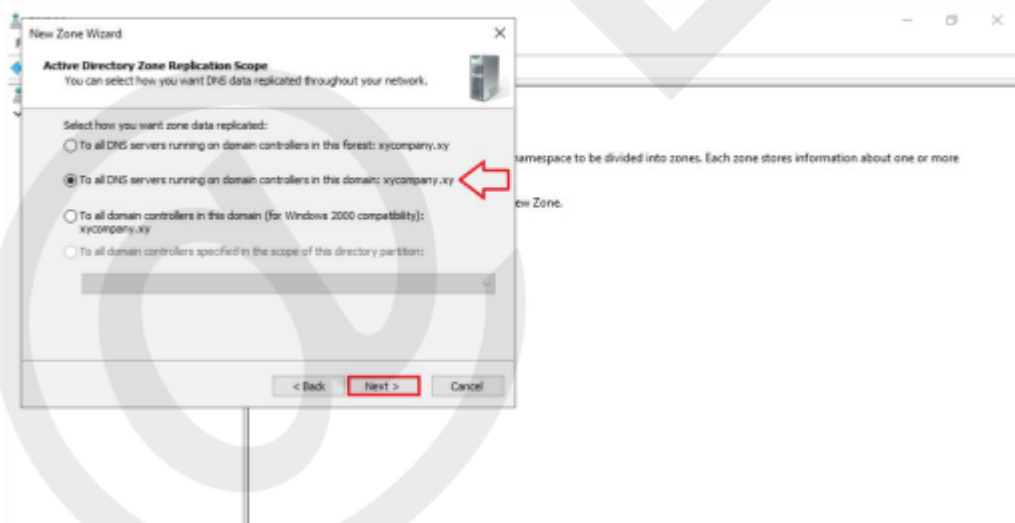
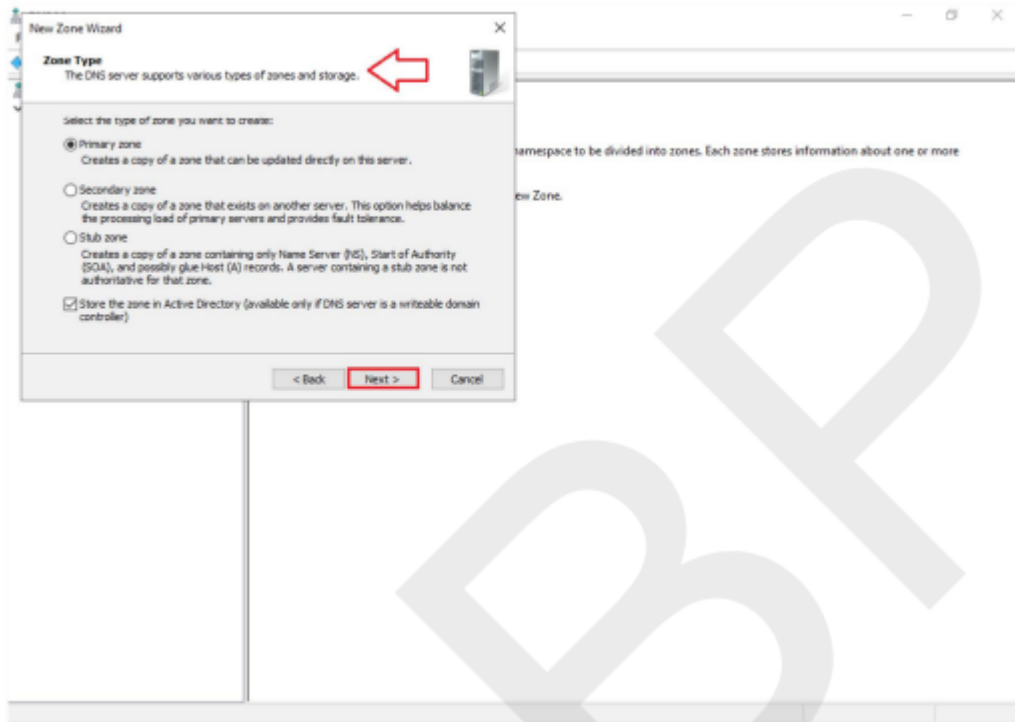


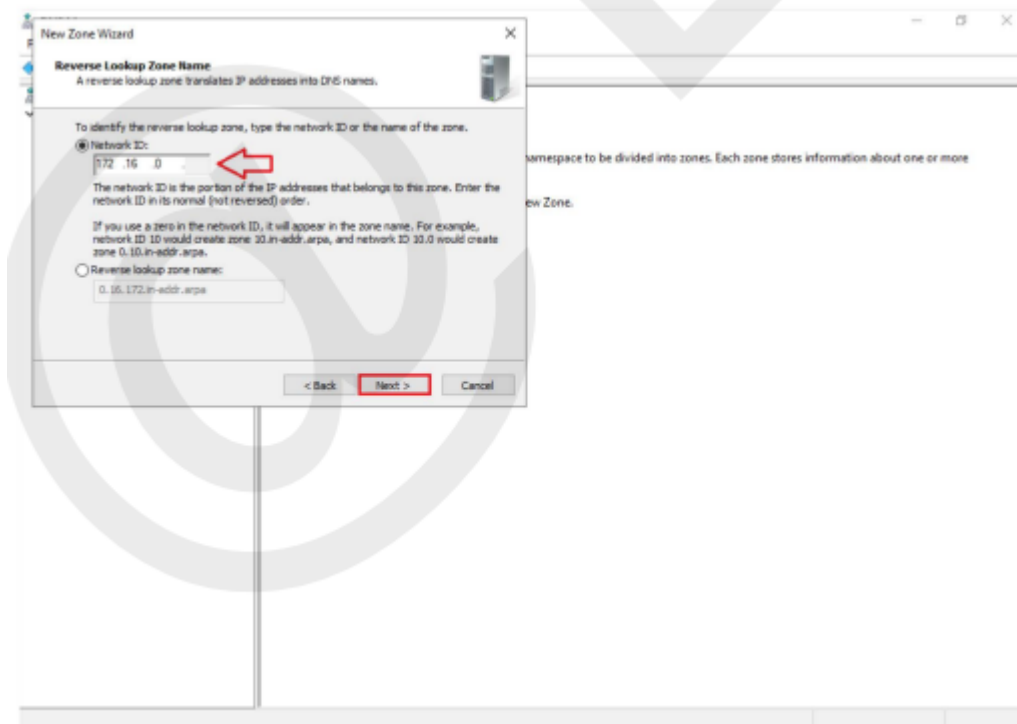
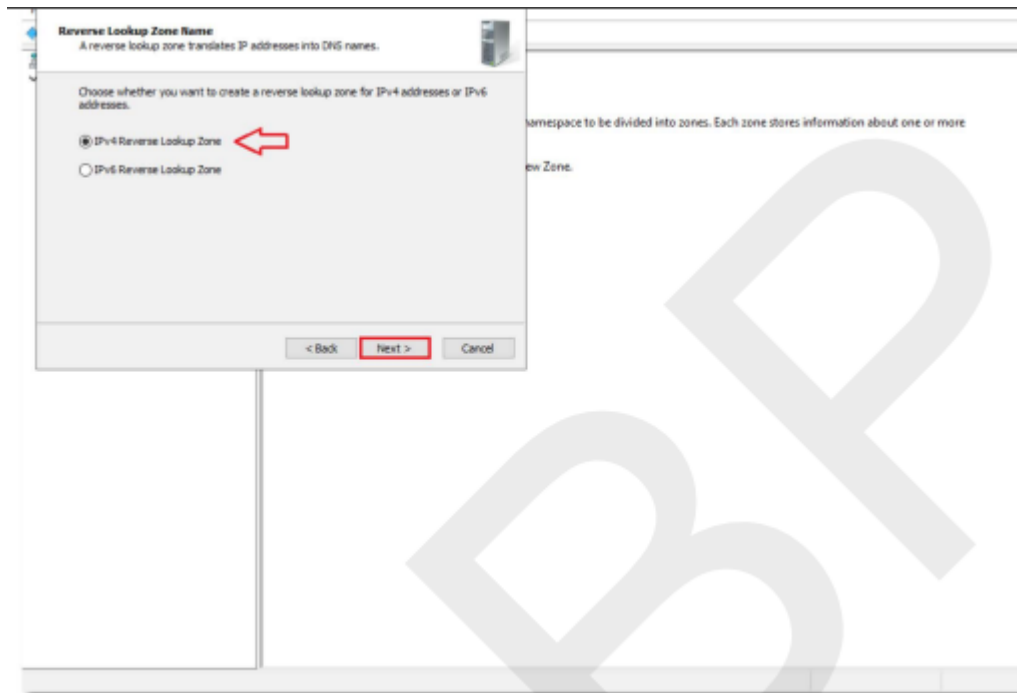


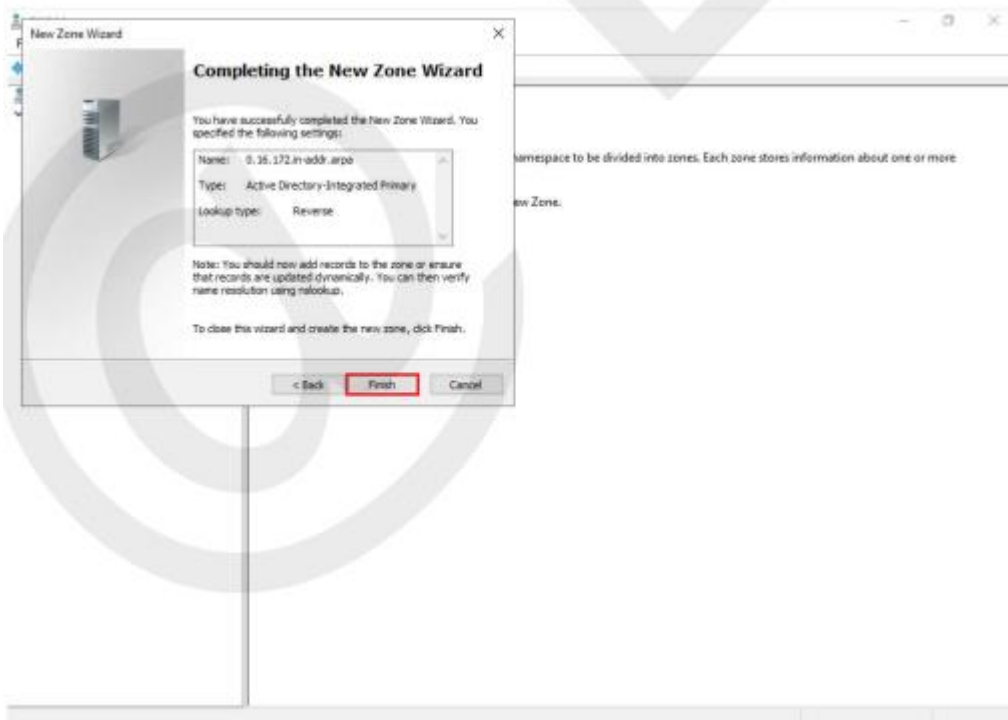
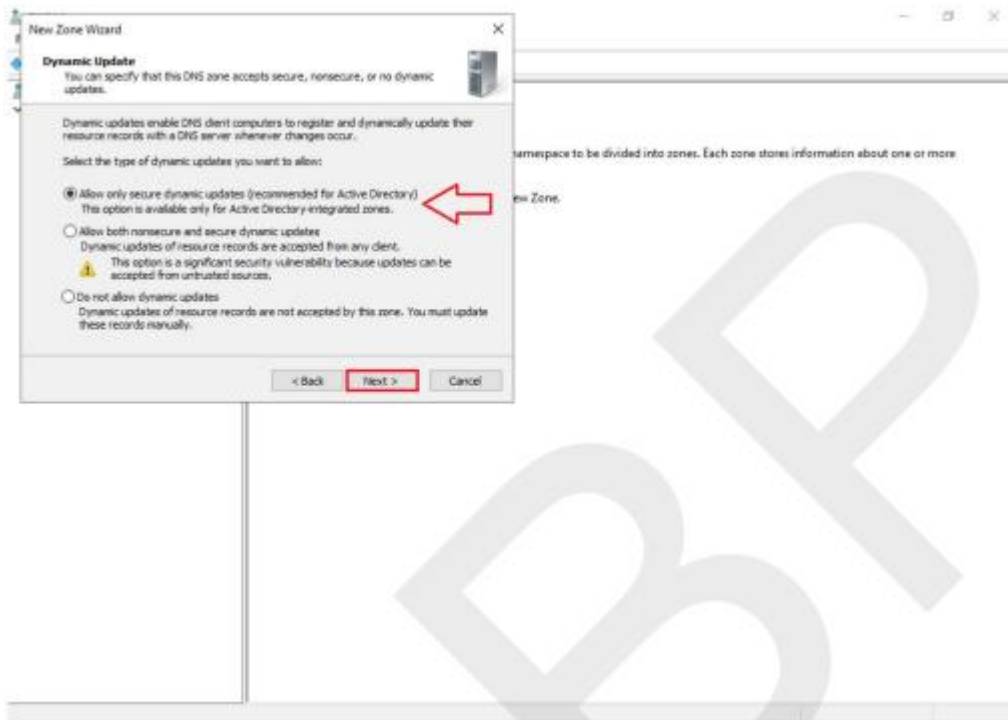
## 4. DNS szolgáltatás konfigurálása

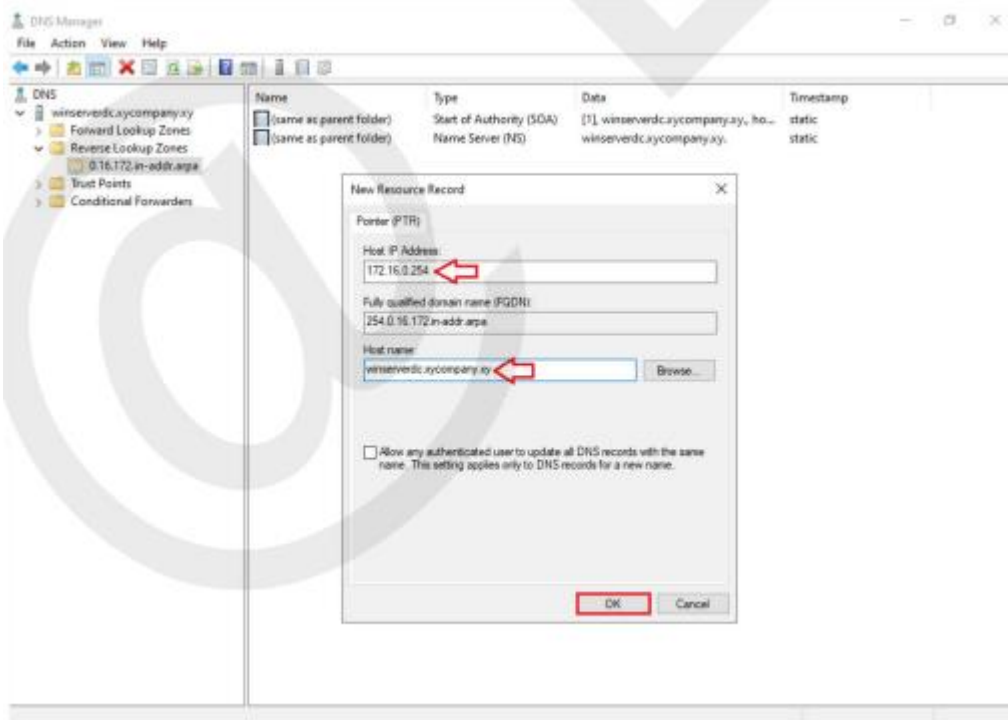
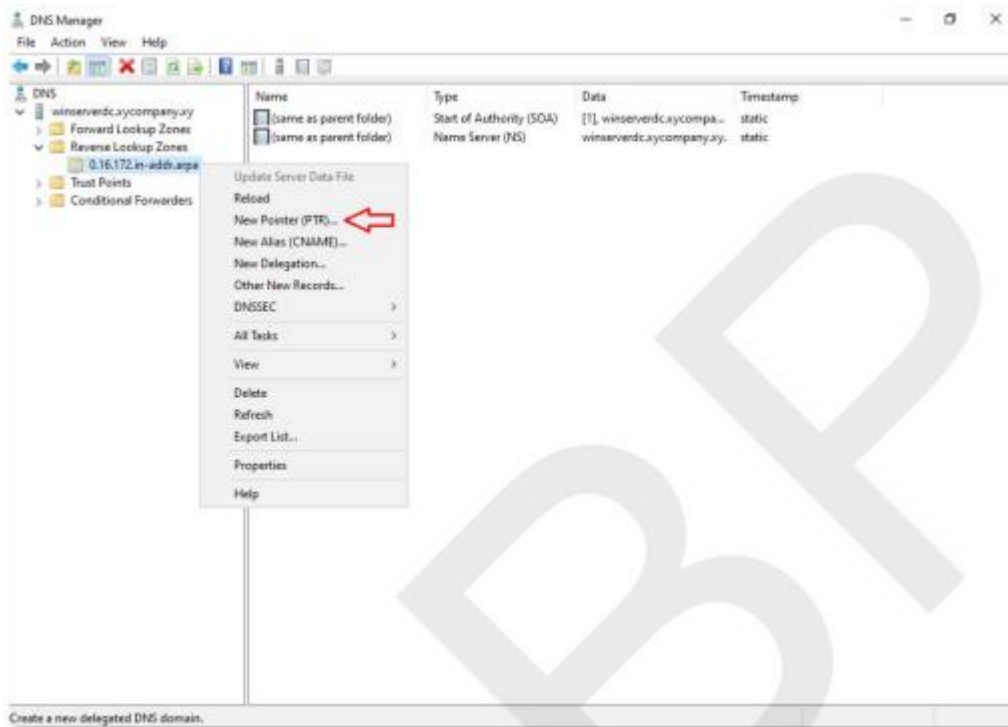


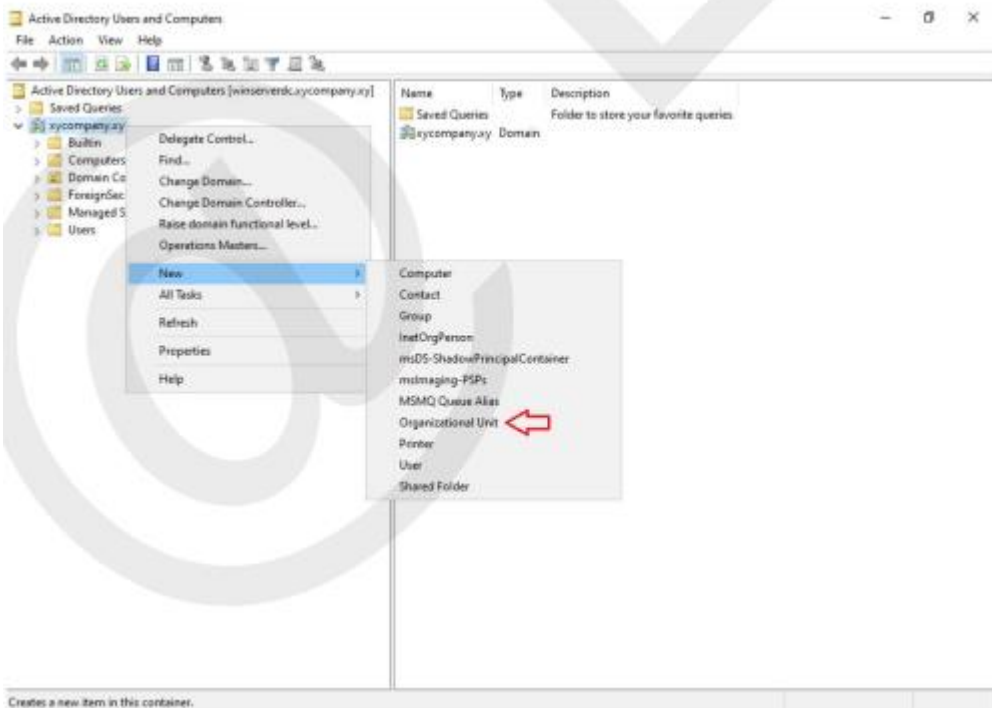
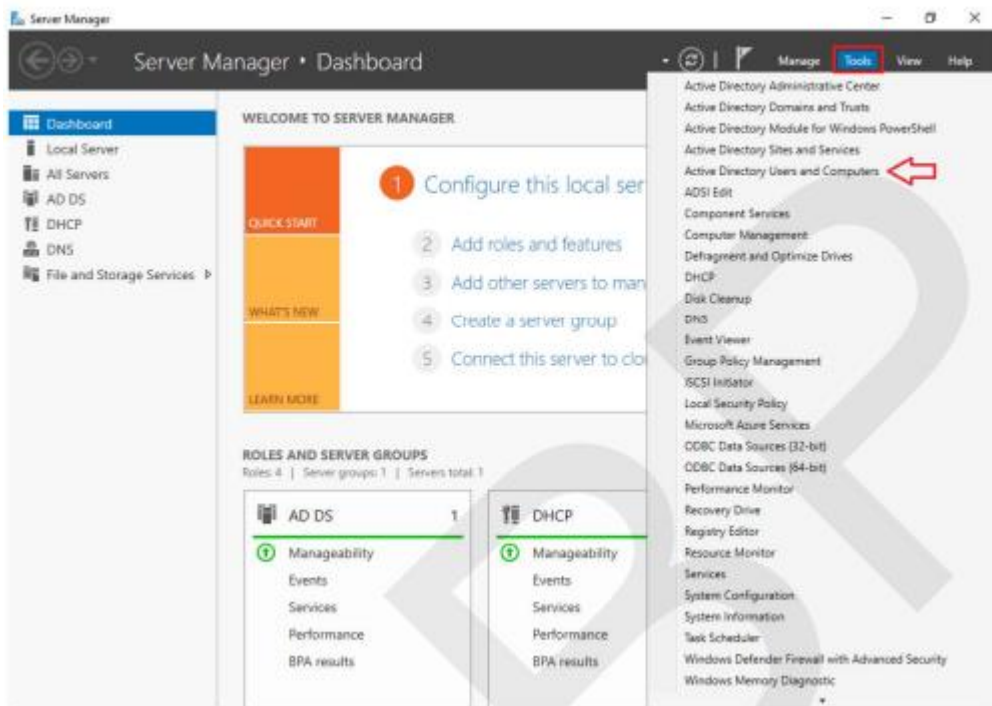




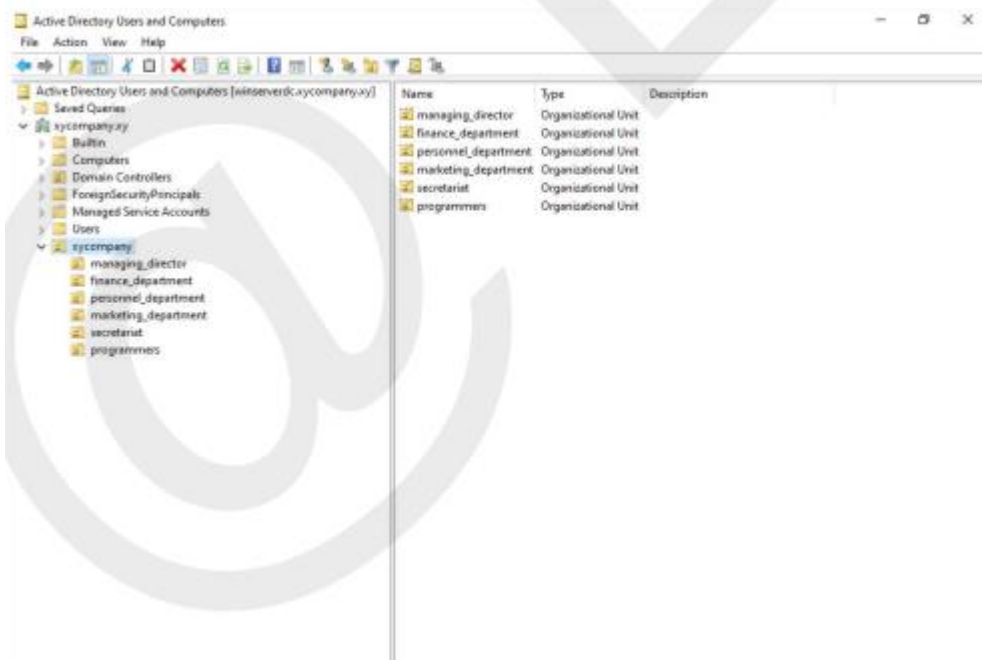
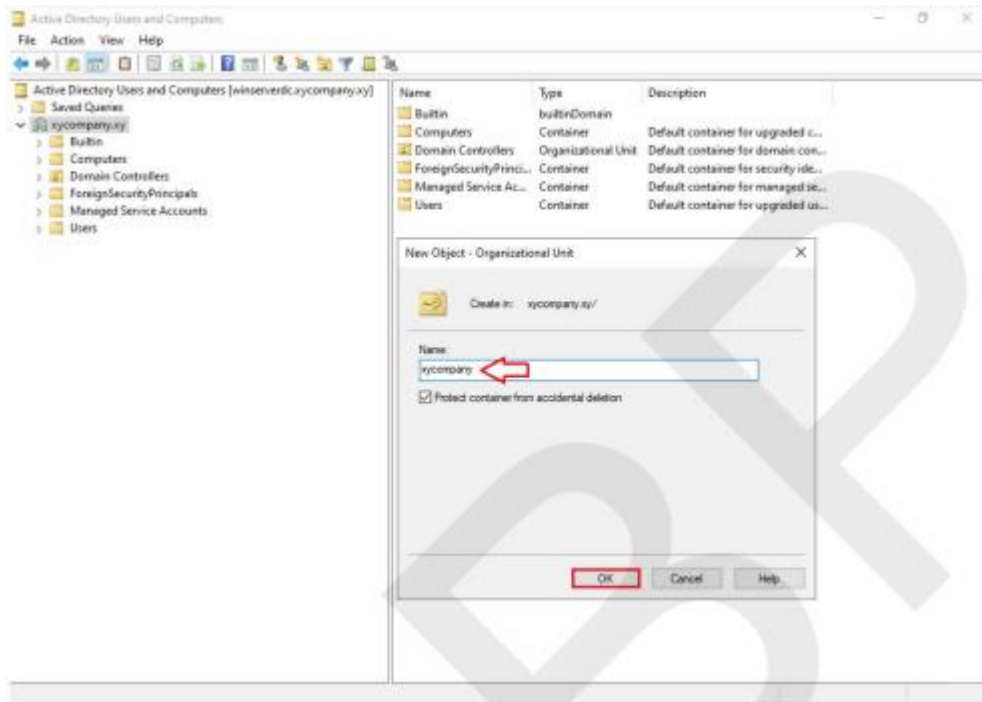


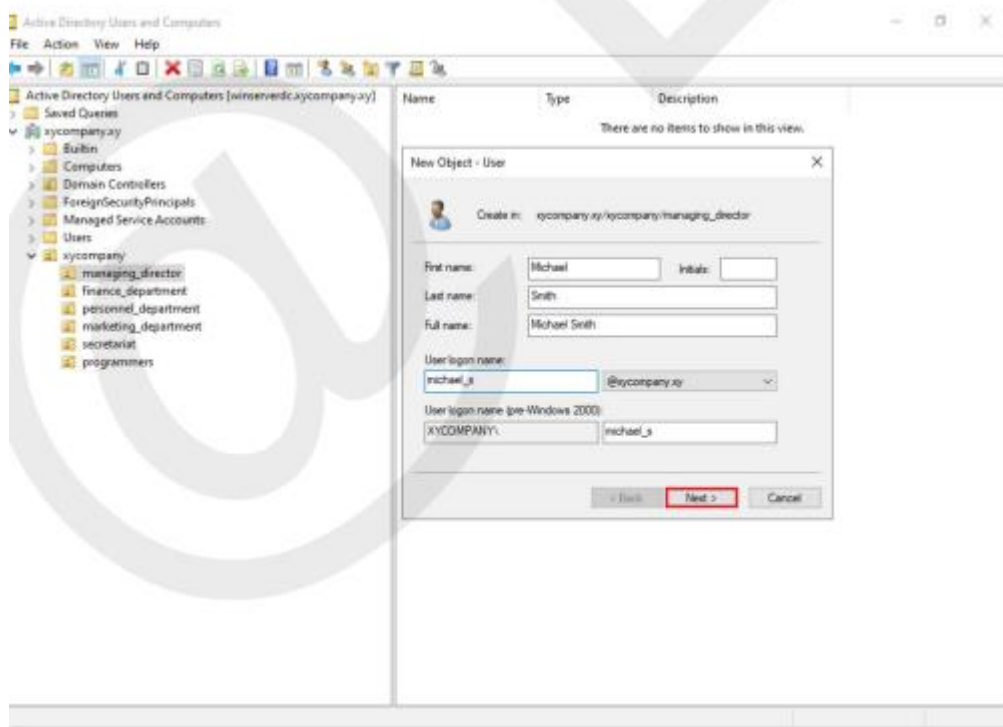
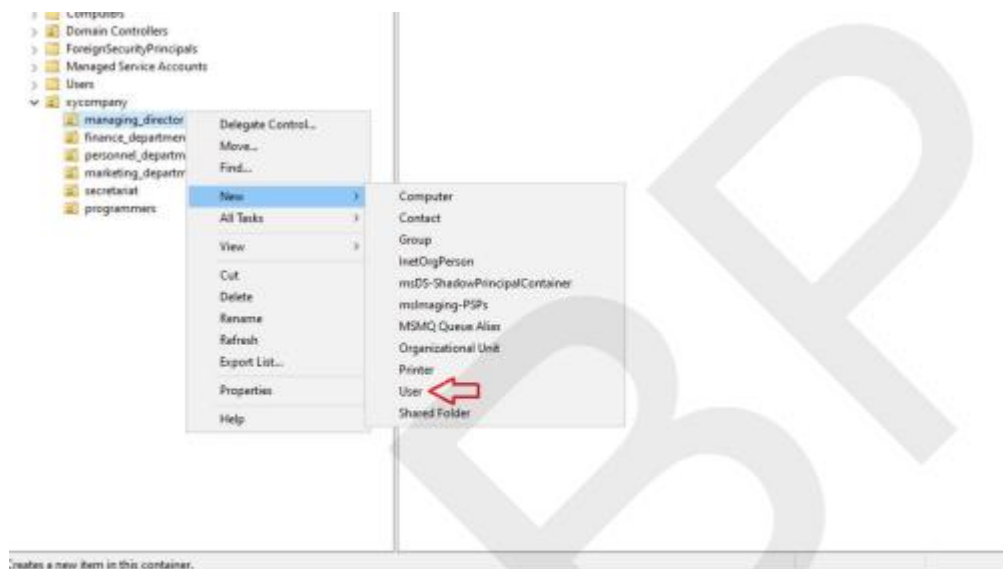


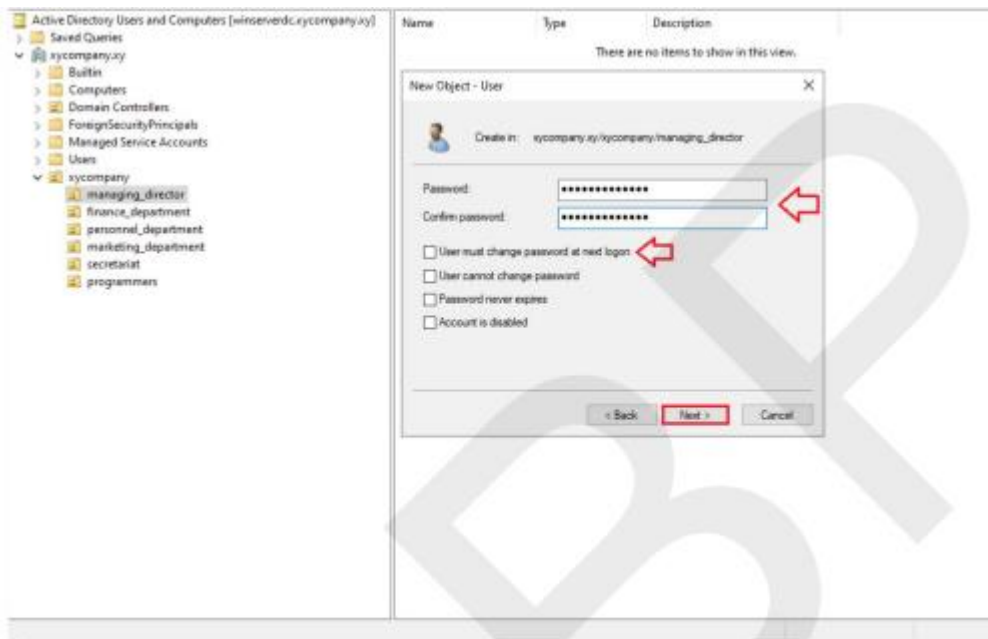




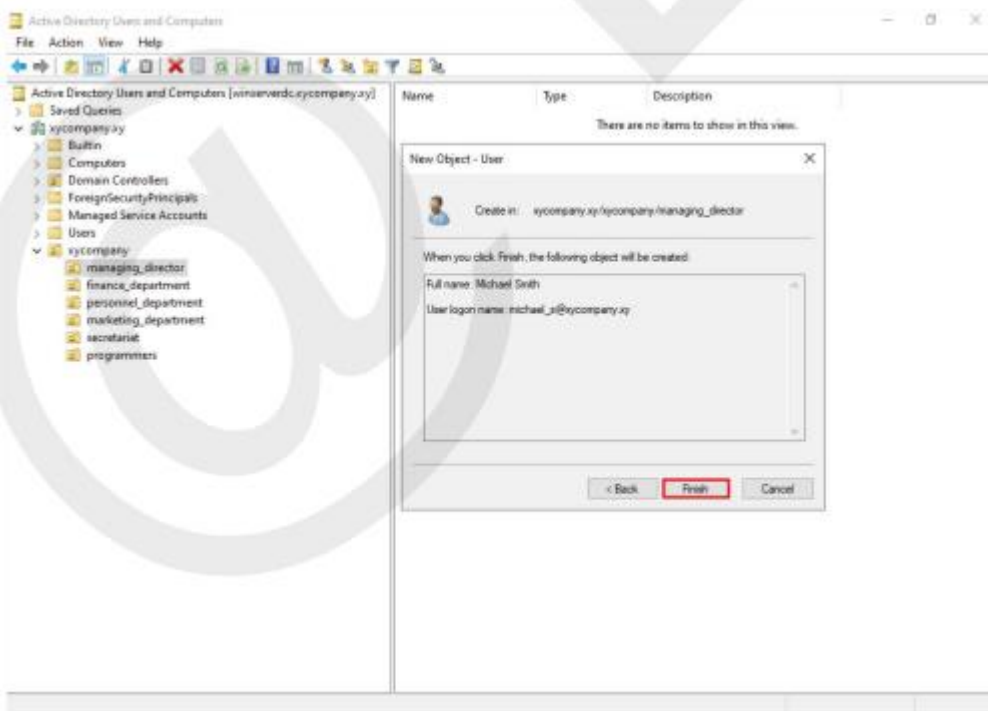




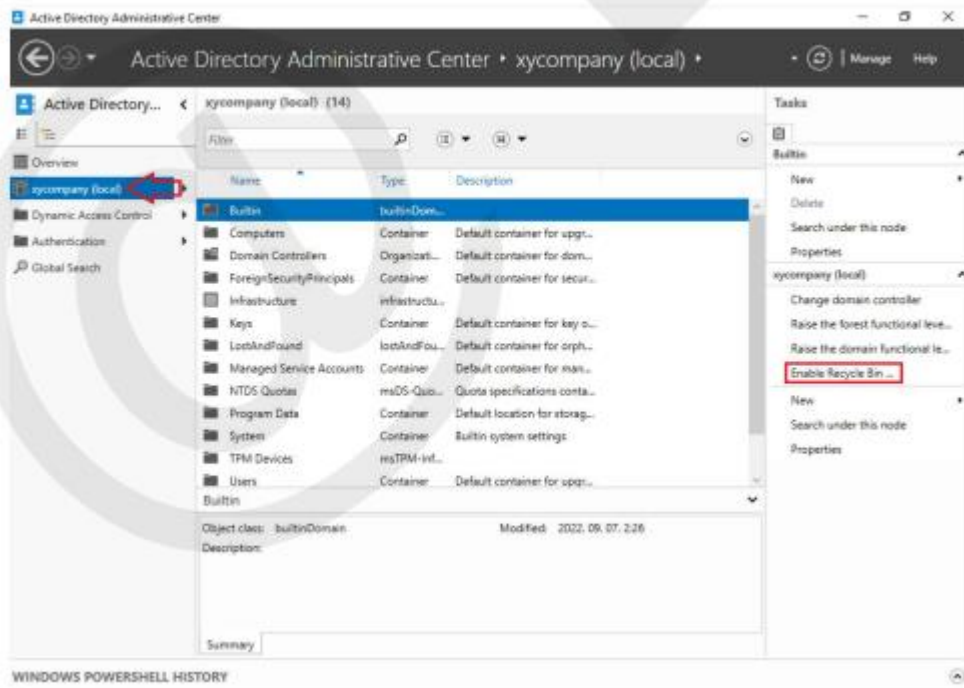
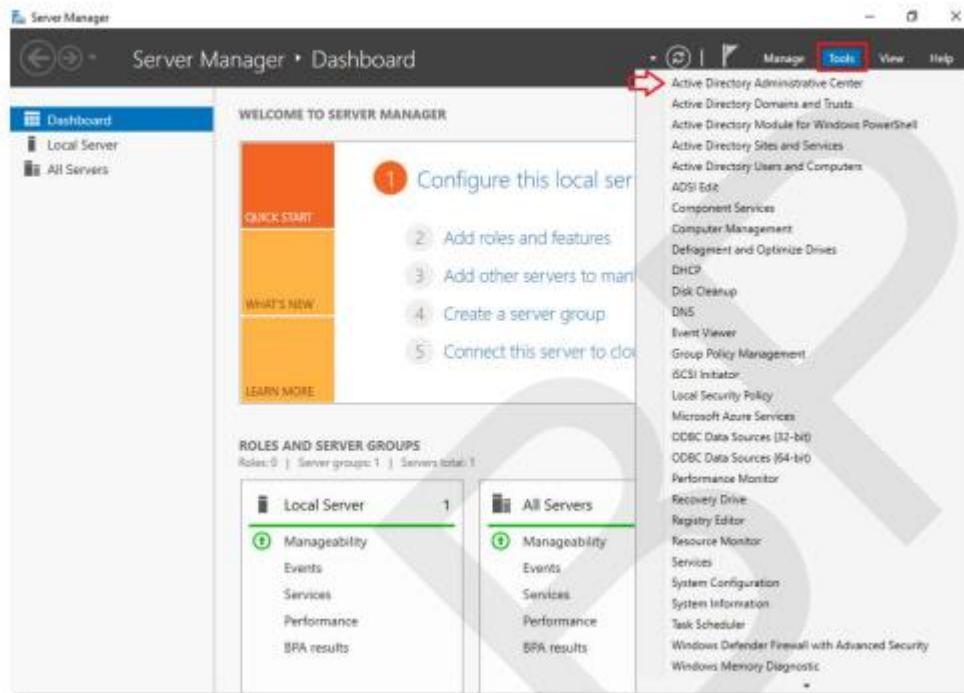




a jelszó: #Cc123456789@

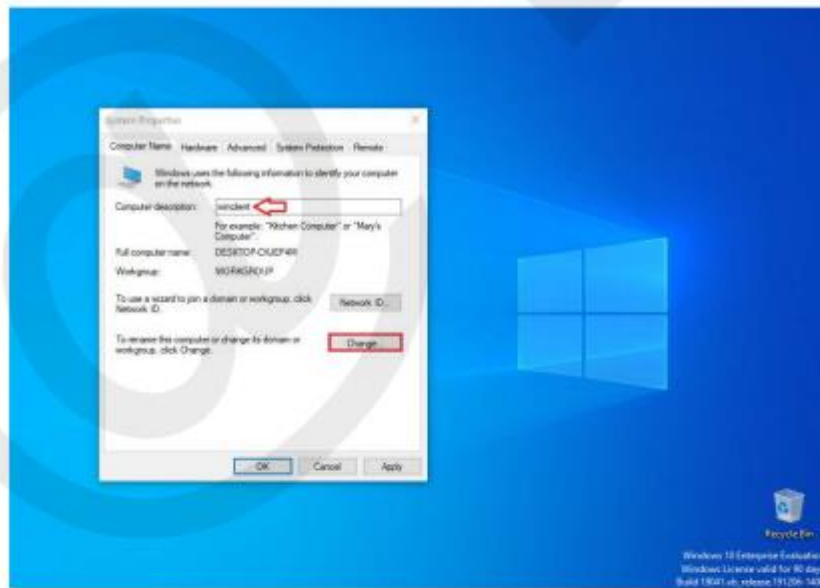


## 2.11 Az Active Directory lomtár bekapcsolása



# WIN CLIENT

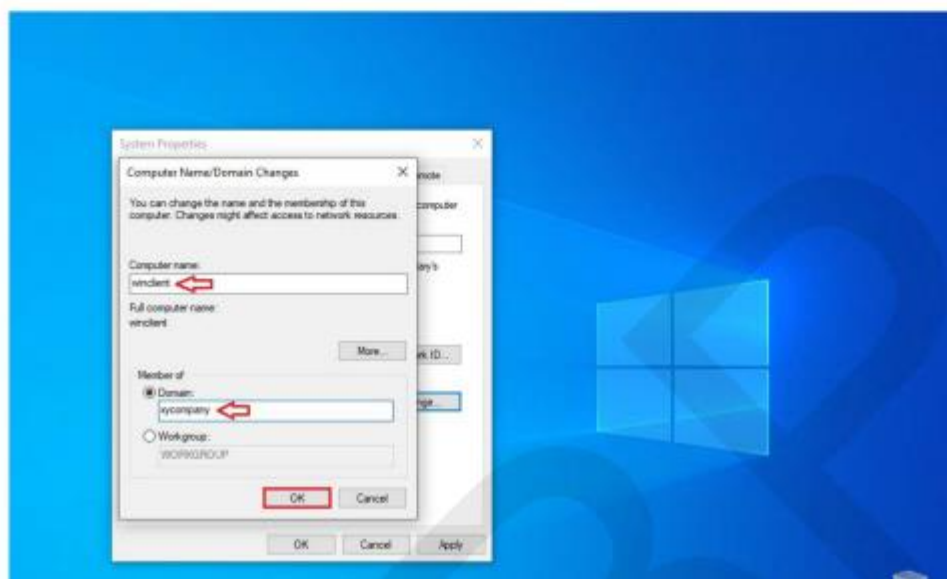
## 3.2 A Windows kliens nevének megadása és tartományba léptetése



nyissuk meg a „view advanced system settings” beállítást  
**computer description: winclient**

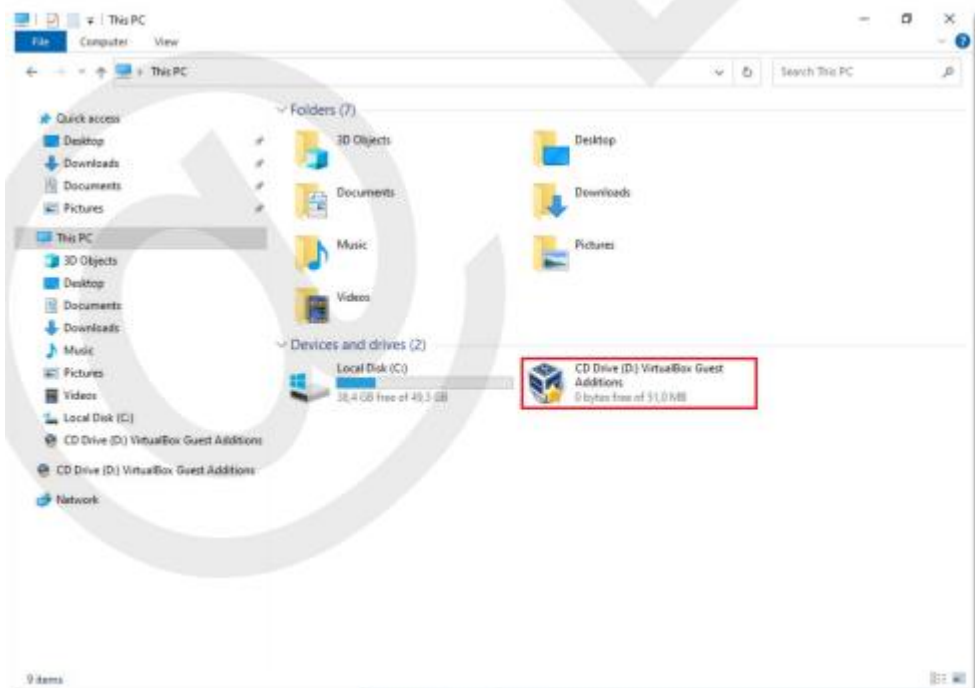
81

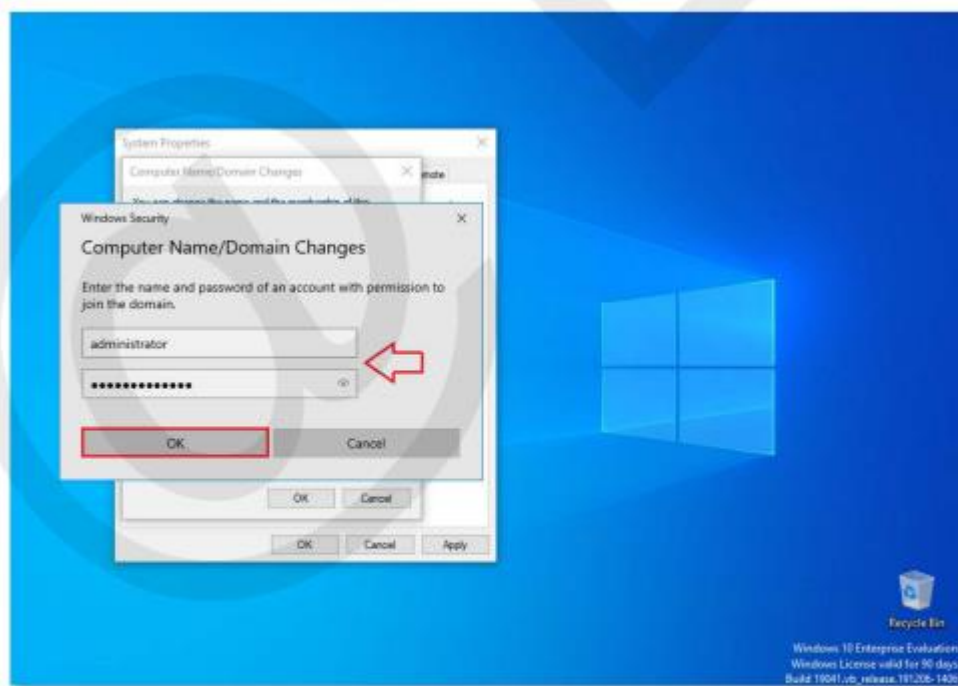
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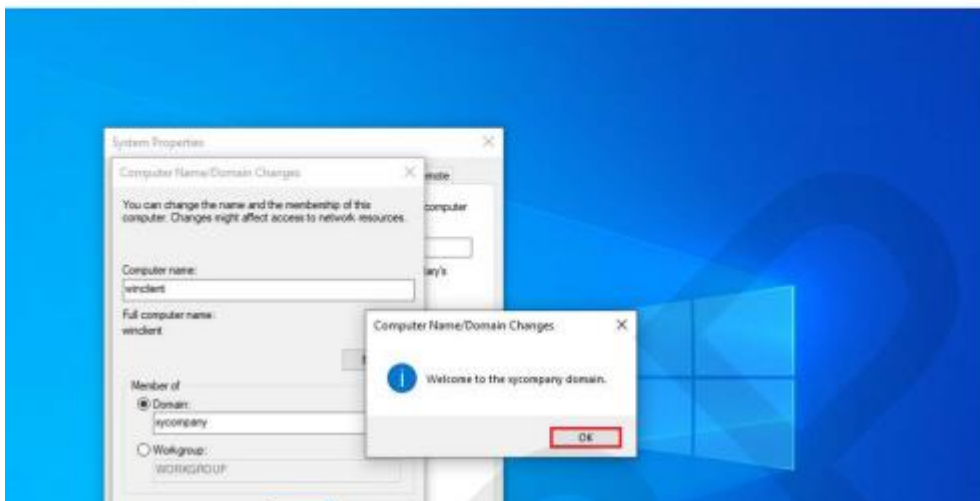


**telepítsük a „Guest Additions” kiegészítőt**

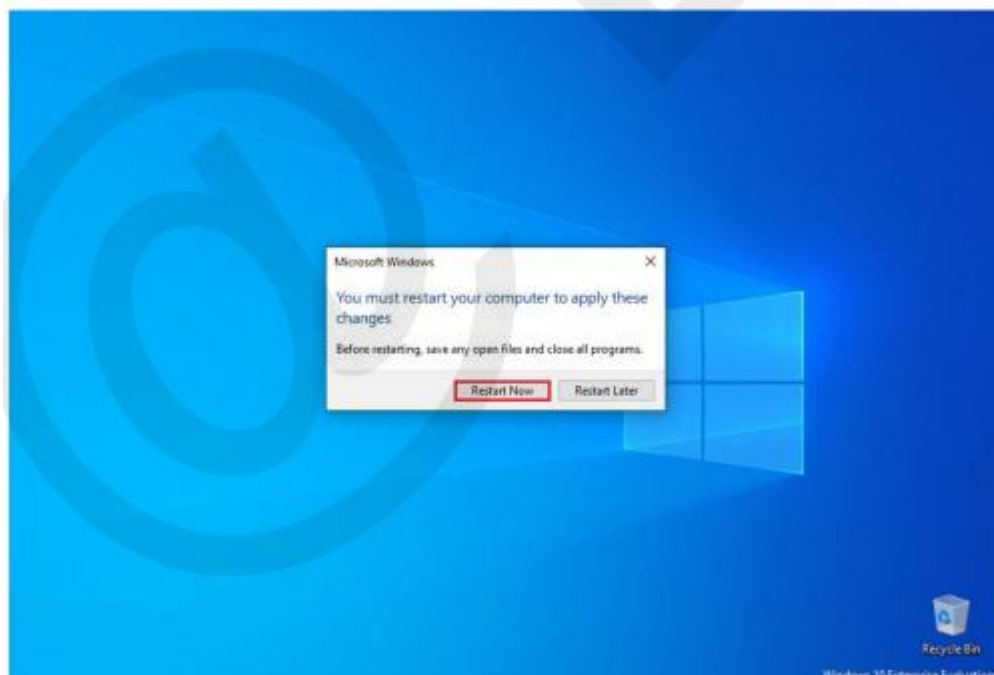
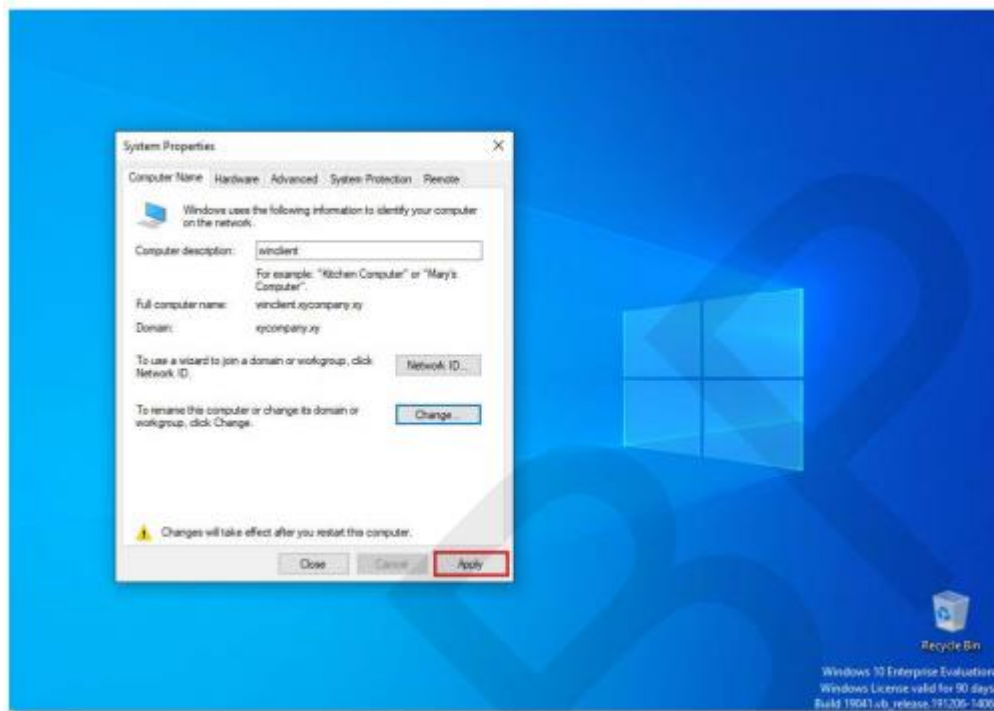




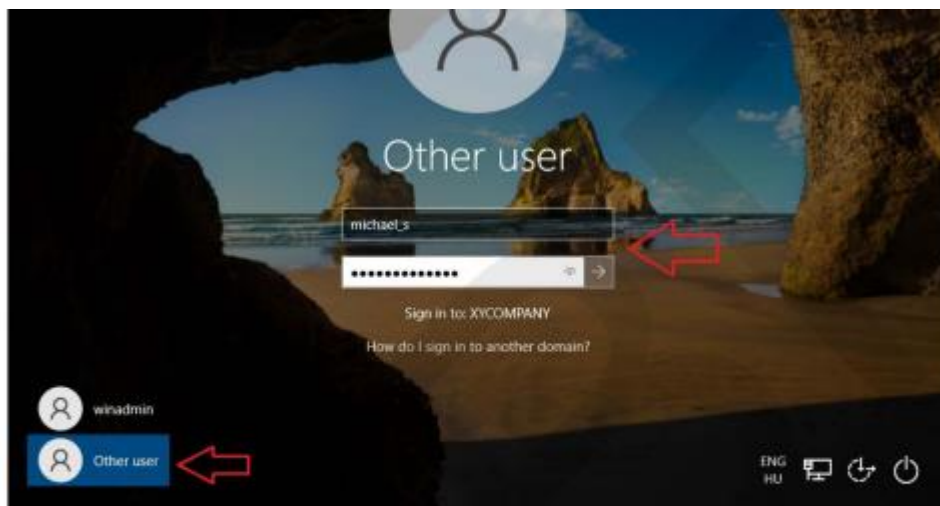
felhasználónév: administrator | jelszó: #Aa123456789@



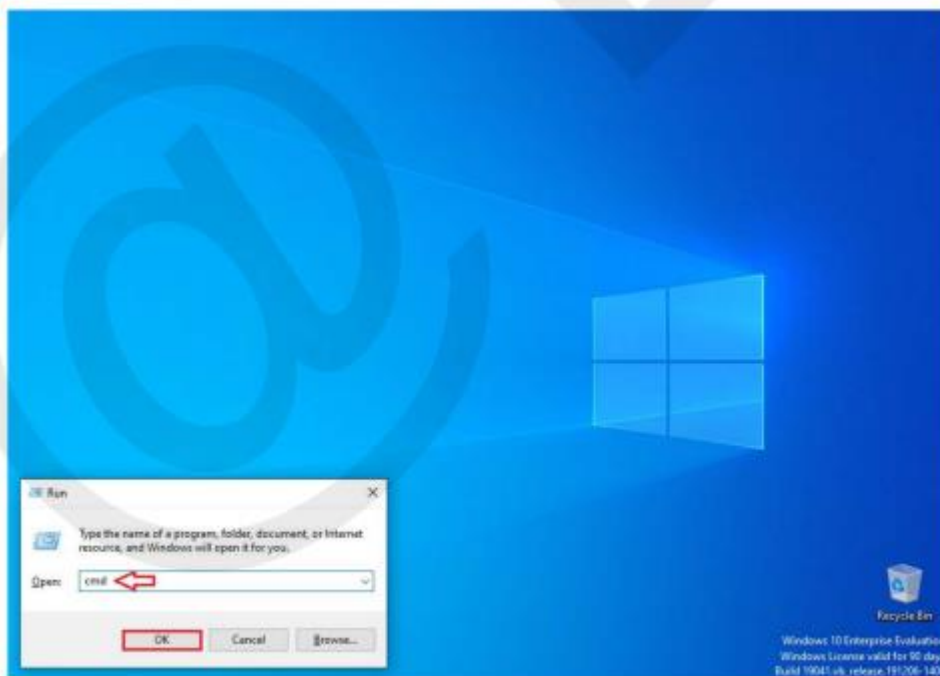








lépjünk be, egy az Active Directory-ban létrehozott felhasználóval



```
Microsoft Windows [version 10.0.19044.1288]
(c) Microsoft Corporation. All rights reserved.

C:\Users\michael_s>ipconfig /all

Windows IP Configuration

Host Name . . . . . : winclient
Primary Dns Suffix . . . . . : xycompany.xy
Node Type . . . . . : Hybrid
IP Routing Enabled. . . . . : No
WINS Proxy Enabled. . . . . : No
DNS Suffix Search List. . . . . : xycompany.xy

Ethernet adapter Ethernet:

Connection-specific DNS Suffix . : xycompany.xy
Description . . . . . : Intel(R) PRO/1000 MT Desktop Adapter
Physical Address. . . . . : 08-00-27-D1-68-68
DHCP Enabled. . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
Link-local IPv6 Address . . . . . : fe80::393f:a7a:d456:f6d7%13(Preferred)
IPv4 Address. . . . . : 172.16.0.100(Preferred)
Subnet Mask . . . . . : 255.255.0.0
Lease Obtained. . . . . : Thursday, June 23, 2022 7:29:38 PM
Lease Expires . . . . . : Saturday, July 2, 2022 4:29:38 AM
Default Gateway . . . . . : 172.16.0.1
DHCP Server . . . . . : 172.16.0.254
DHCPv6 IAID . . . . . : 101187623
DHCPv6 Client DUID. . . . . : 00-01-00-01-2A-46-48-4F-08-00-27-D1-68-68
DNS Servers . . . . . : 172.16.0.254
NetBIOS over Tcpip. . . . . : Enabled

C:\Users\michael_s>
```

ellenőrizzük az IP címzést

```
C:\Windows\system32\cmd.exe

C:\Users\michael_s>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=12ms TTL=58
Reply from 8.8.8.8: bytes=32 time=10ms TTL=58
Reply from 8.8.8.8: bytes=32 time=7ms TTL=58
Reply from 8.8.8.8: bytes=32 time=8ms TTL=58

Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 7ms, Maximum = 12ms, Average = 9ms

C:\Users\michael_s>ping cisco.com

Pinging cisco.com [72.163.4.185] with 32 bytes of data:
Reply from 72.163.4.185: bytes=32 time=168ms TTL=234
Reply from 72.163.4.185: bytes=32 time=168ms TTL=234
Reply from 72.163.4.185: bytes=32 time=164ms TTL=234
Reply from 72.163.4.185: bytes=32 time=167ms TTL=234

Ping statistics for 72.163.4.185:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
```

# BACKUP

## 3.1 A szerver kezdeti konfigurálása

### IP cím paraméterek:

**IP address:** 172.16.0.253

**Subnet mask:** 255.255.0.0

**Default gateway:** 172.16.0.1

**Preferred DNS server:** 172.16.0.254

### Telepítsük a „Guest Additions” kiegészítőt!

A virtuális gép újraindulása után jelentkezünk vissza az **administrator** felhasználóval!

### Adjunk leírást és nevet a kliens gépnek:

**A szerver leírása:** **winservbdc**

**A szerver neve:** **winservbdc**

### Kapcsoljuk be a távoli asztal kapcsolatot a szerveren!

### Időzóna konfigurálása:

A virtuális gép újraindulása után kapcsolódjunk távoli asztal kapcsolaton keresztül a gazdagépről a szerverhez! Indítsuk el a PowerShell-t és **konfiguráljuk a megfelelő időzónát a már tanult módon!**

Zárjuk be a PowerShell-t!

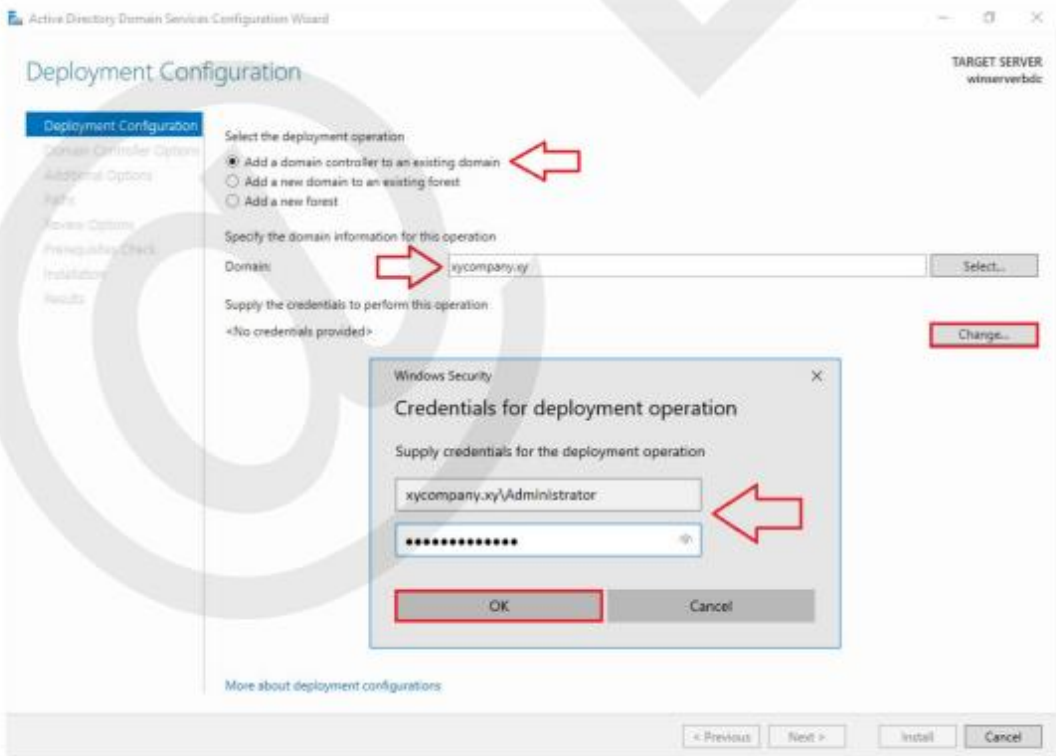
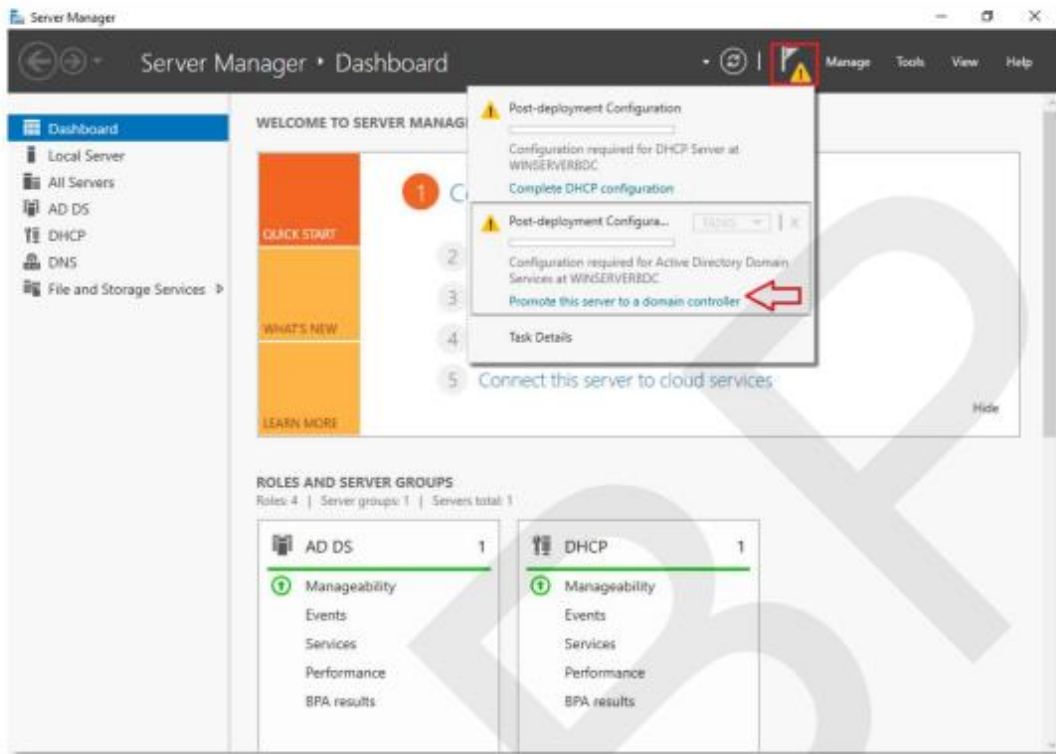
Lépünk ki a távoli asztal kapcsolatból!

Jelentkezzünk be a **winservbdc** szerverre adminisztrátorként!

**Szolgáltatások telepítése a Server Manager-ben (Manage/Add roles and Features):**

- Active Directory Domain Services
- DHCP Server
- DNS Server

A telepítés befejezése után indítsuk újra a virtuális gépet, és jelentkezünk vissza az **administrator** felhasználóval!



**jelszó: #Aa123456789@**

Review Options  
Prerequisites Check  
Installation  
Results

Specify the domain information for this operation

Domain:  

Supply the credentials to perform this operation

xyzcompany.xy\Administrator 

[More about deployment configurations](#)


< Previous **Next >** Install Cancel


Active Directory Domain Services Configuration Wizard

Domain Controller Options


Deployment Configuration  
**Domain Controller Options**  
DNS Options  
Additional Options  
Paths  
Review Options  
Prerequisites Check  
Installation  
Results

Specify domain controller capabilities and site information

☒ Domain Name System (DNS) server   
☒ Global Catalog (GC)  
☐ Read only domain controller (RODC)

Site name:  

Type the Directory Services Restore Mode (DSRM) password

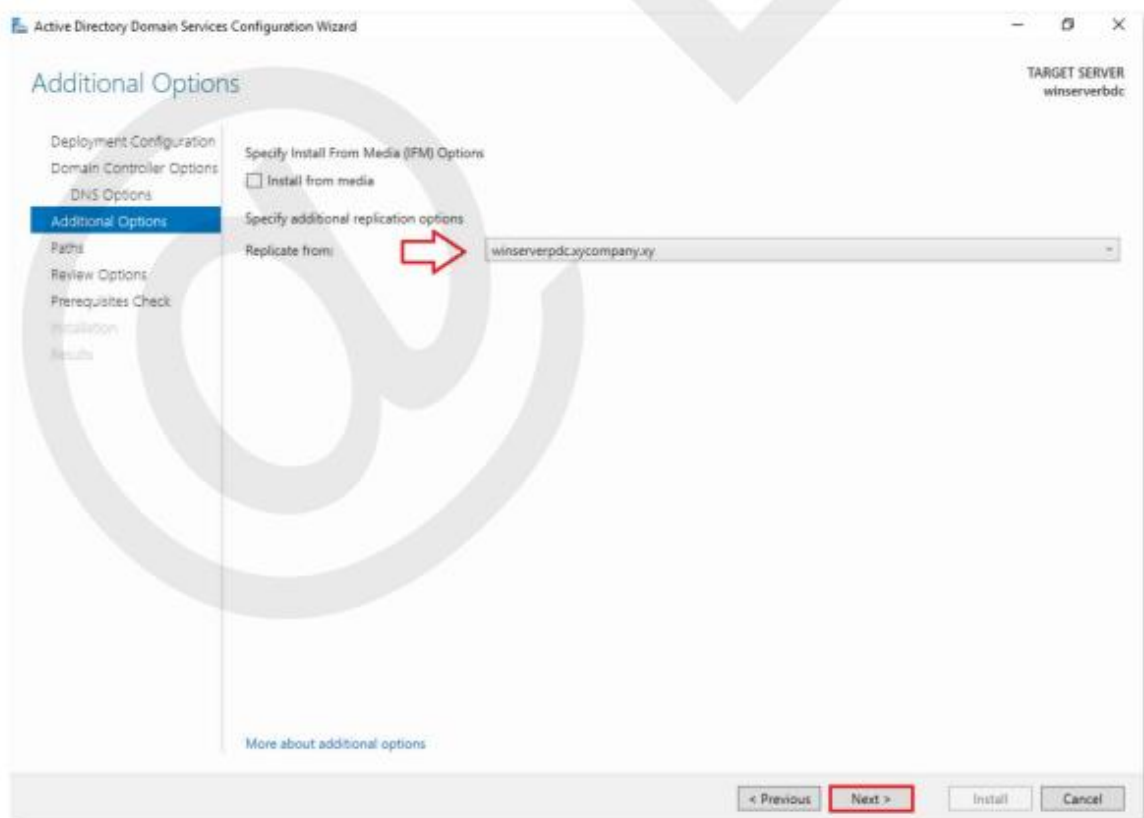
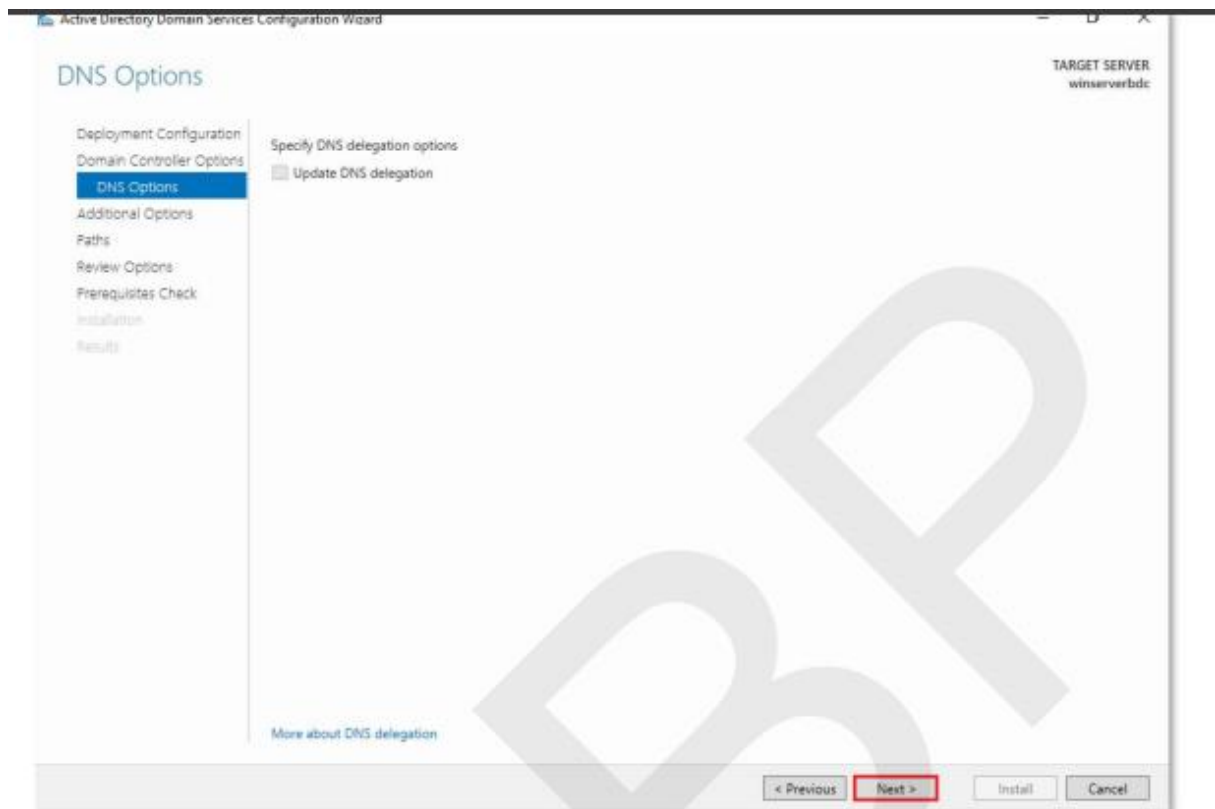
Password:    
Confirm password:

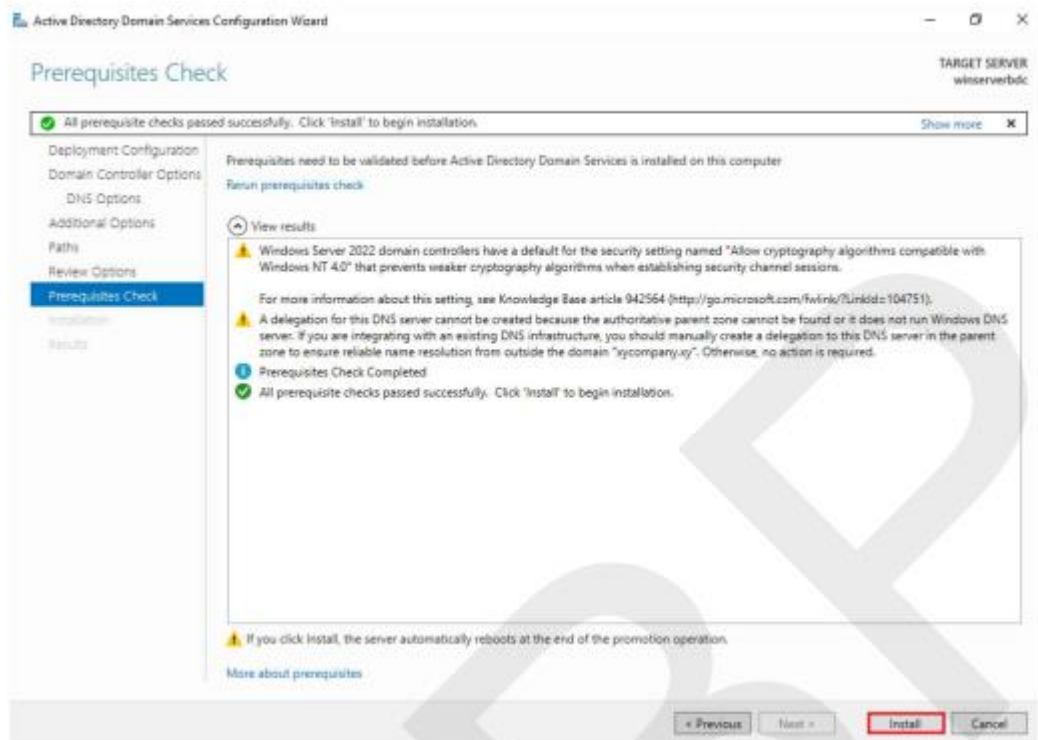
[More about domain controller options](#)

< Previous **Next >** Install Cancel

TARGET SERVER  
winservbdc

jelszó: #Aa123456789@

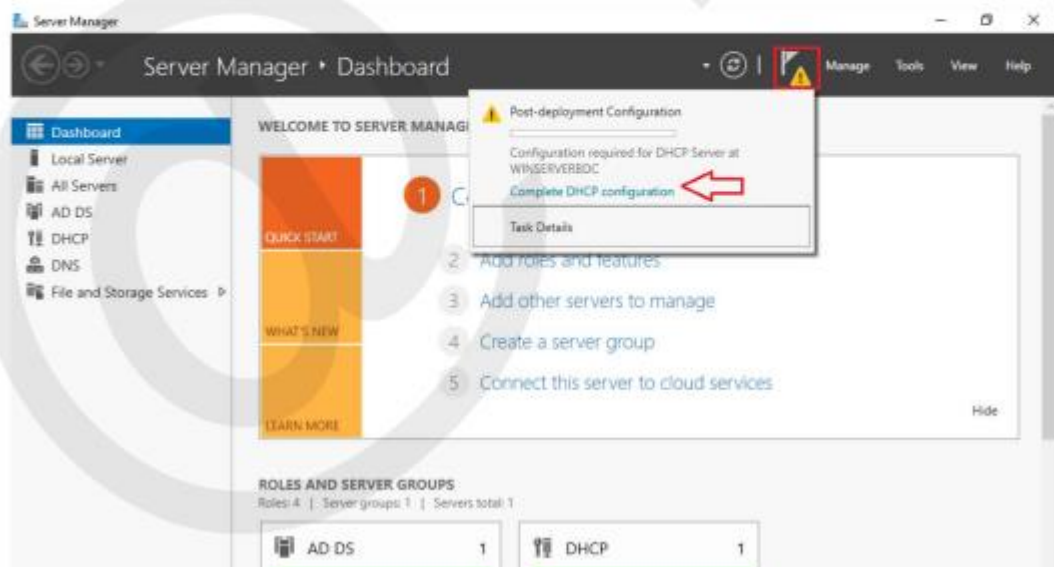




a telepítés után újra fog indulni a rendszer

### 3 A DHCP és a tartalék DHCP szolgáltatás konfigurálása

lentkezzünk vissza a **winserverbdc** szerverre **tartományi adminisztrátorként!**





### Description

Description

Authorization

Summary

The following steps will be performed to complete the configuration of the DHCP Server on the target computer:

Create the following security groups for delegation of DHCP Server Administration.

- DHCP Administrators
- DHCP Users

Authorize DHCP server on target computer (if domain joined).

< Previous **Next >** Commit Cancel

### DHCP Post-Install configuration wizard

### Authorization

Description

Authorization

Summary

Specify the credentials to be used to authorize this DHCP server in AD DS.

☒ Use the following user's credentials

User Name: XYCOMPANY\Administrator

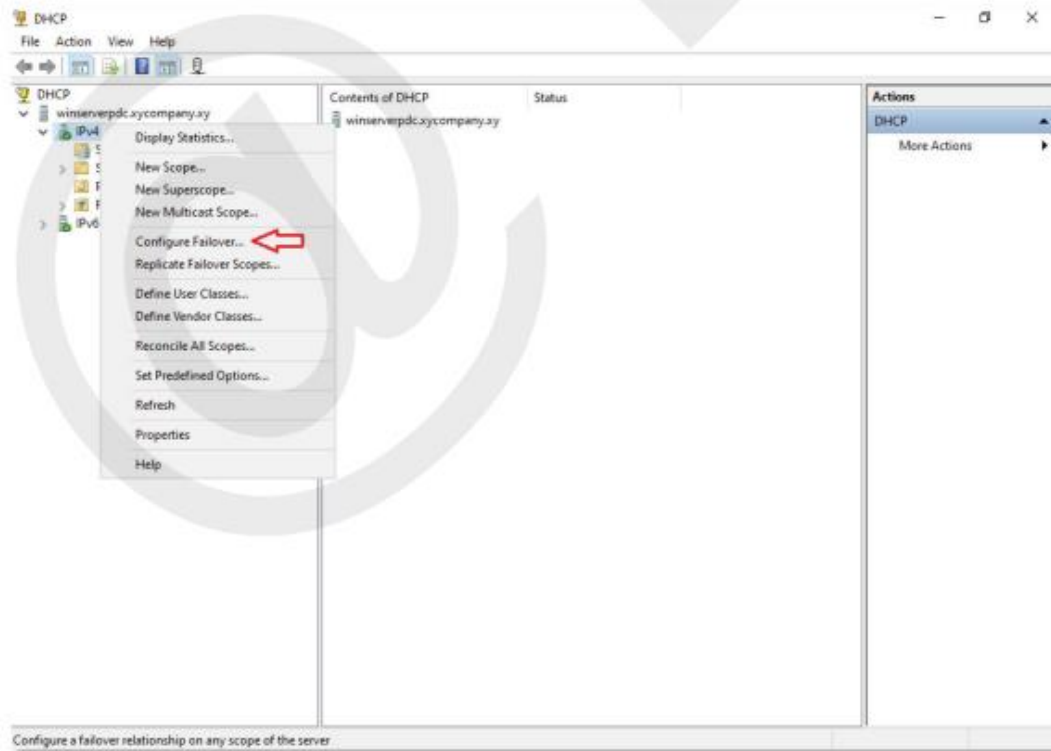
☐ Use alternate credentials

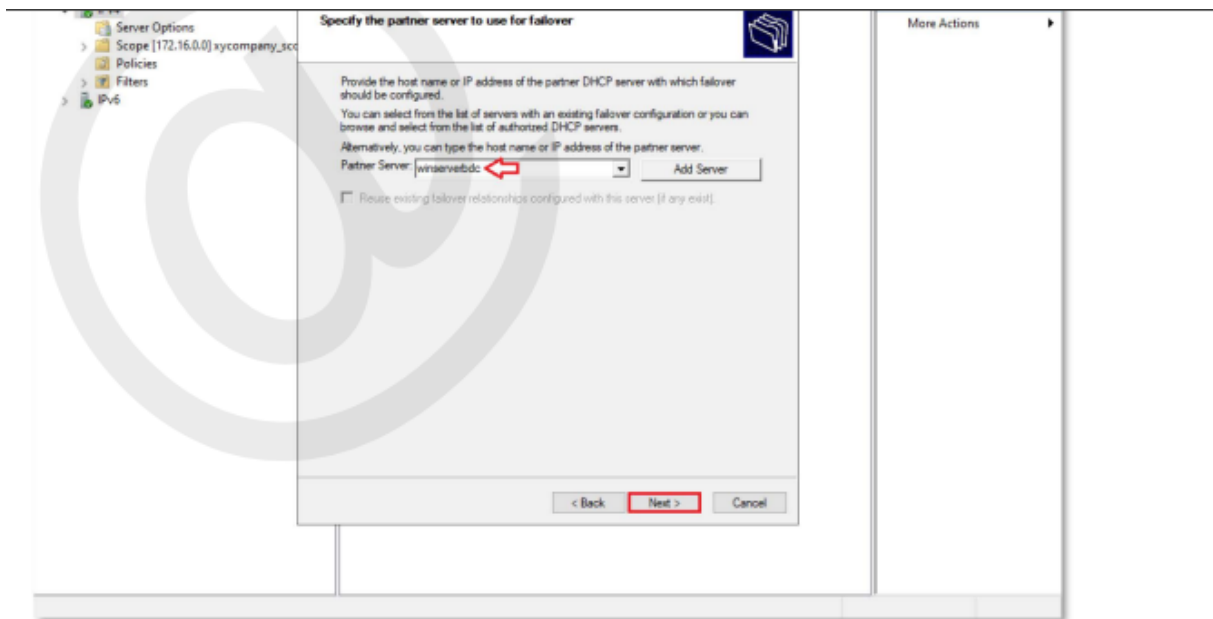
User Name: Specify...

☐ Skip AD authorization

< Previous Next > **Commit** Cancel

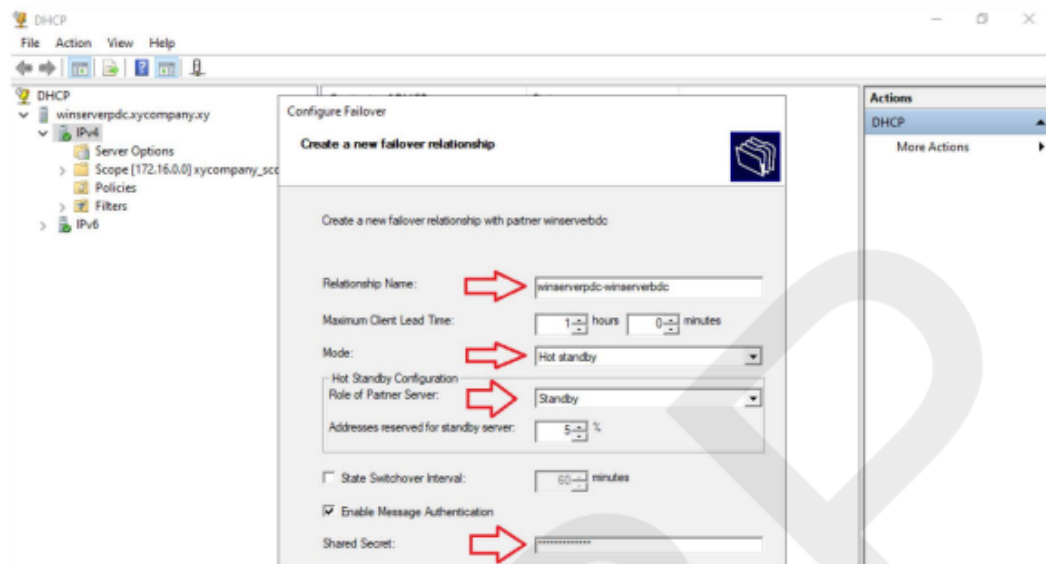
A **winservpdc** szerveren a DHCP manager-ben állítsuk be a feladatátvitelt (DHCP Failover):

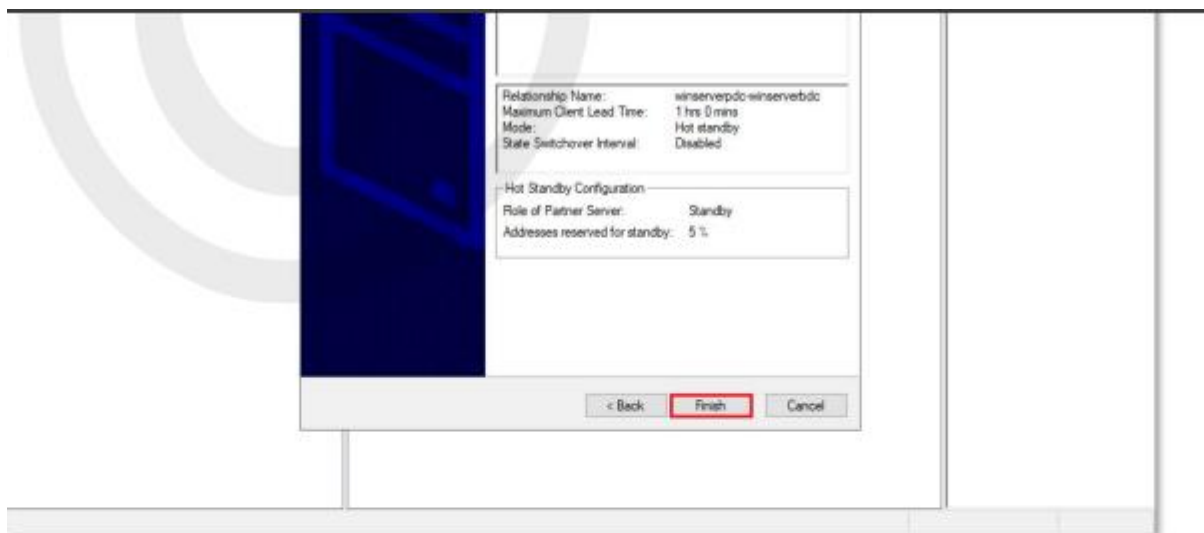




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