

3. Osat taitotalon harjoitusta - 1

Sunday, October 12, 2025 14:16

Tässä kappaleessa mennään aikaisemman taitotalon harjoituksia, että harjoituksen kertauksena & osat voi skippata ja jos ei tarvi, mutta tärkeitä konffauksia tehdään ja nämä tulee kuvakaappauksena step by step.

Huomoina, laiskuuden takia ei jaksata avata sitä videota uudestaan ja näitä löytyy omasta kanavan tallenteesta. Vanhoja videoita, mutta hyvin selostettu ajalta ennen 2024.

Tärkeä osuus ensimmäisenä ja muistutus windows server IP-osoite ja yms:

PS C:\Users\Administrator> ipconfig

Windows IP Configuration

Ethernet adapter Ethernet0:

Connection-specific DNS Suffix . :

Link-local IPv6 Address : fe80::f55a:98b9:ed73:3dd3%13

IPv4 Address. : 192.168.100.10

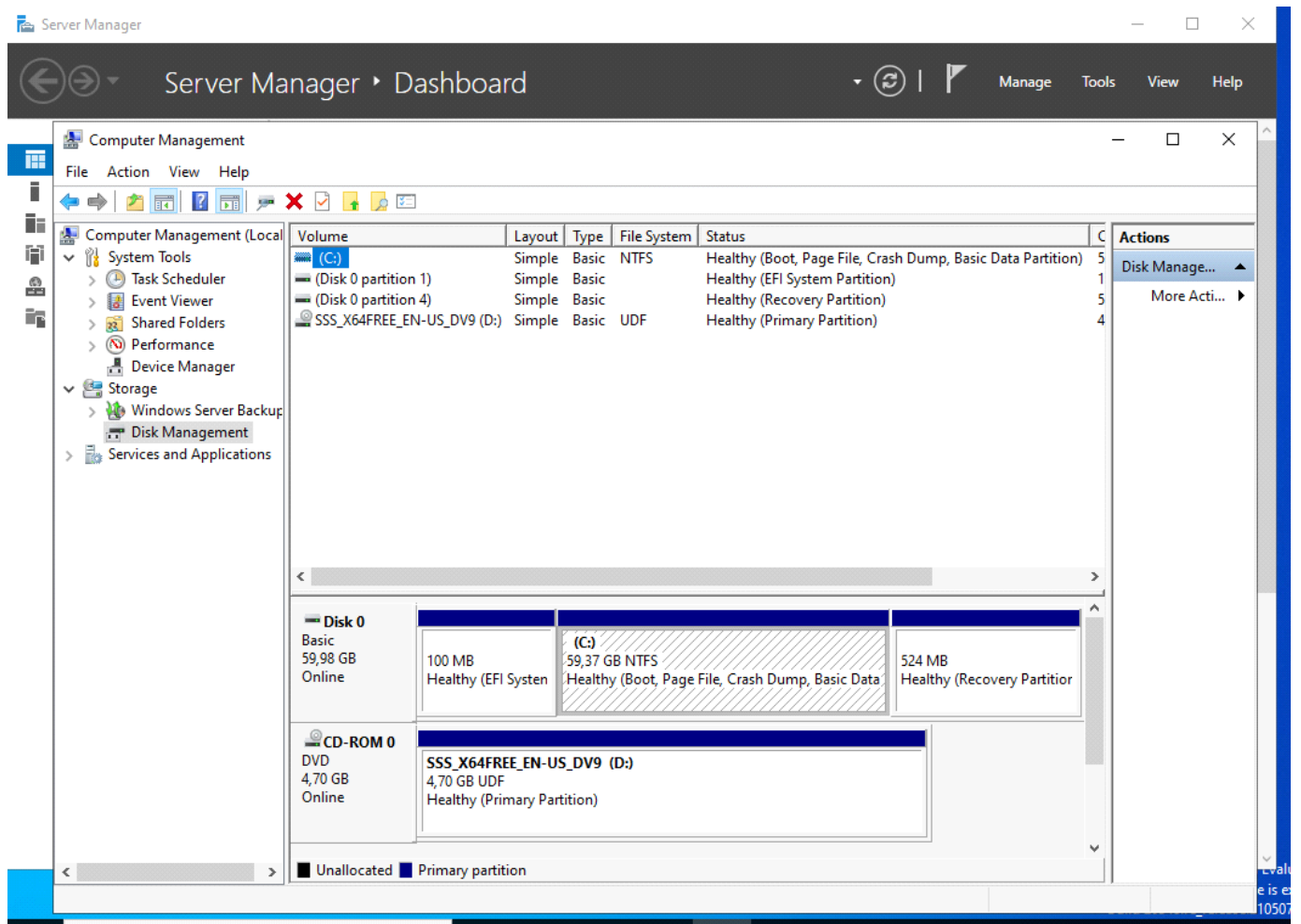
Subnet Mask : 255.255.255.0

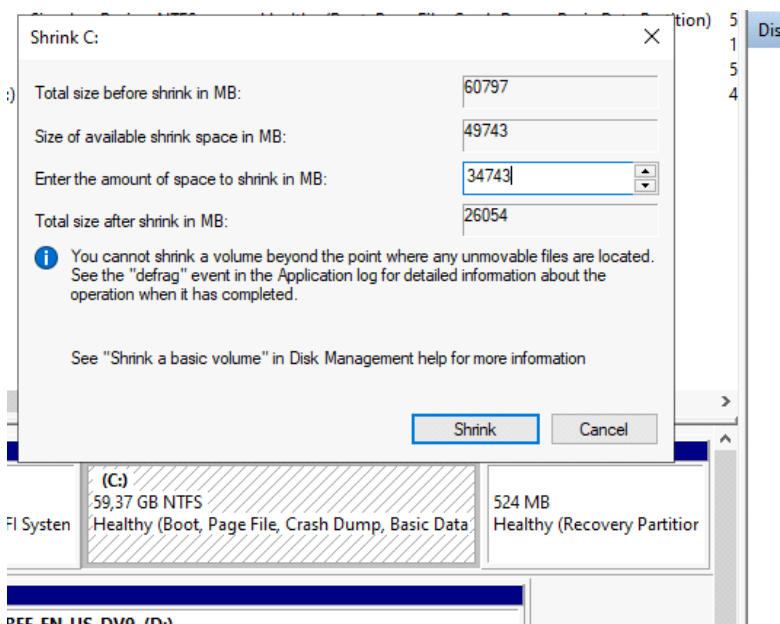
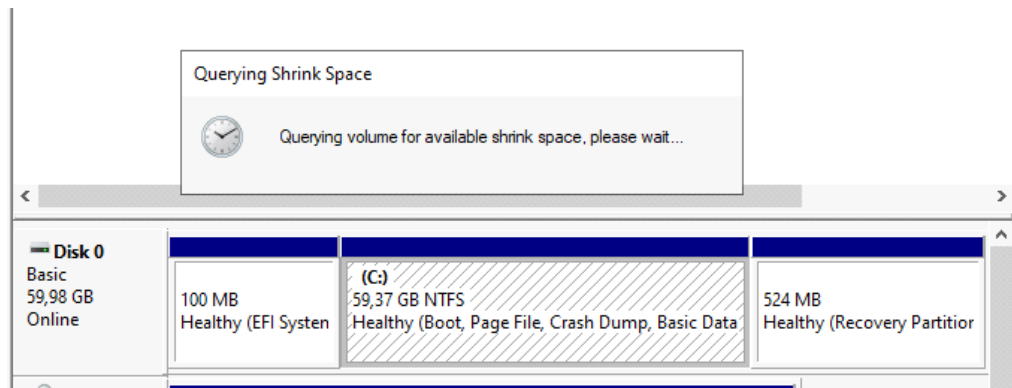
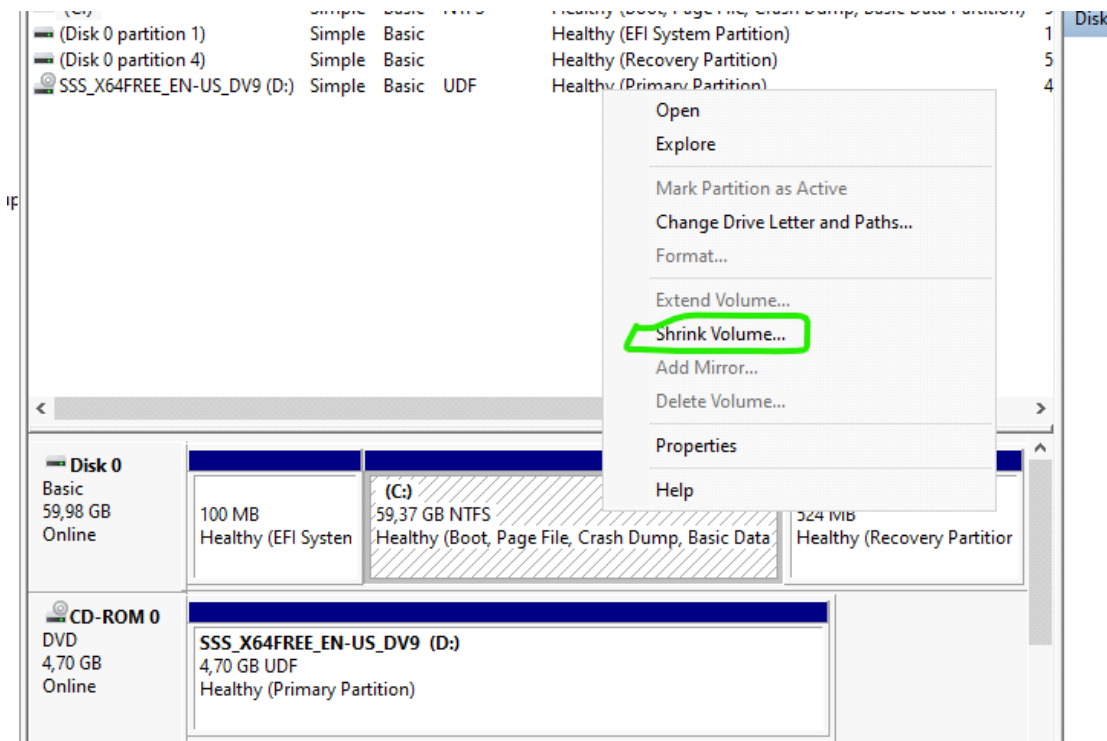
Default Gateway : 192.168.100.1

Palvelin DNS: 192.168.100.2

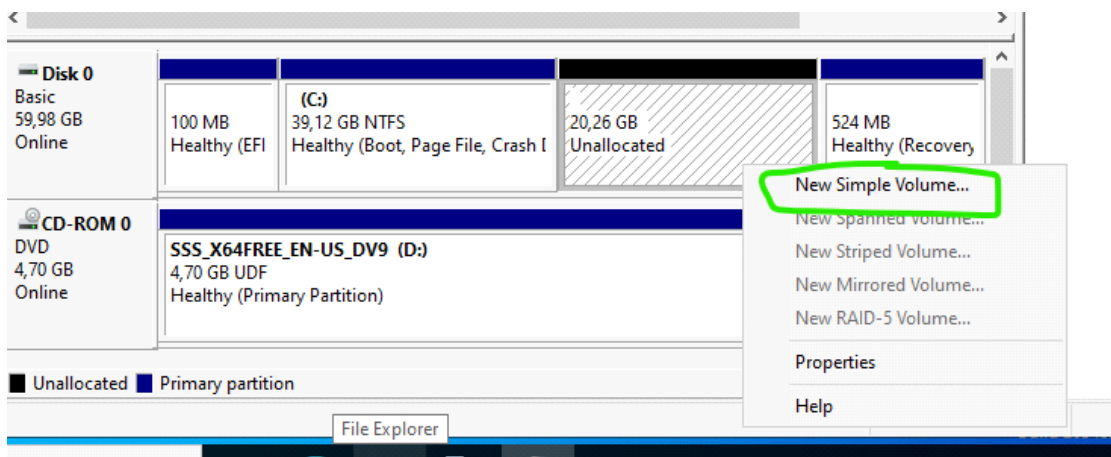
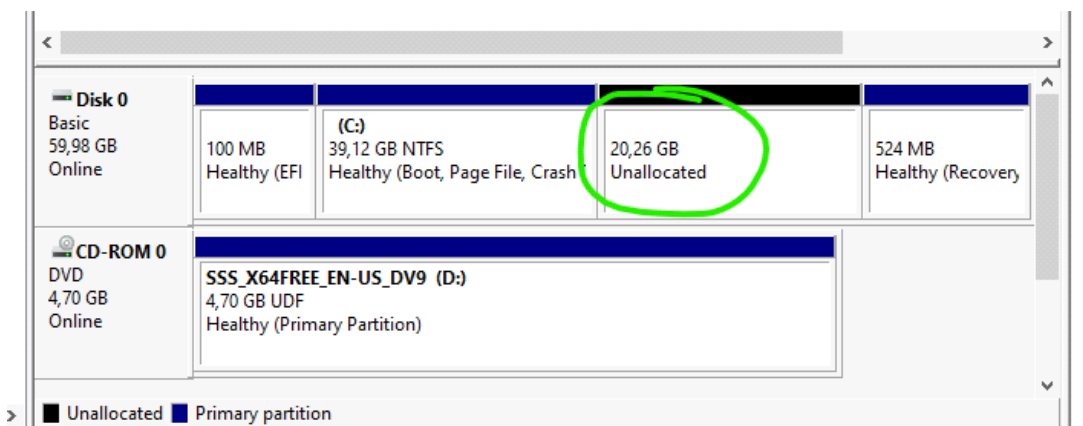
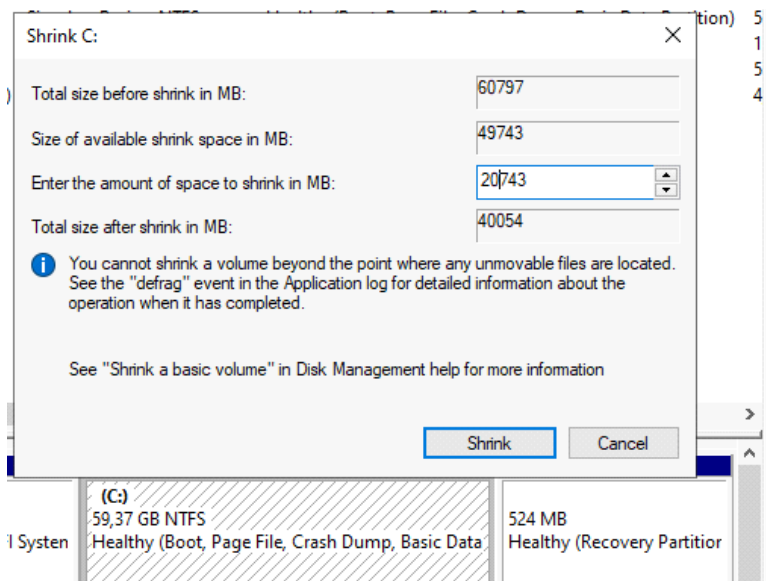
TODO - 1 - levyn jakaminen - START HERE;

Kokeillaan tästä C-levystä pienentää

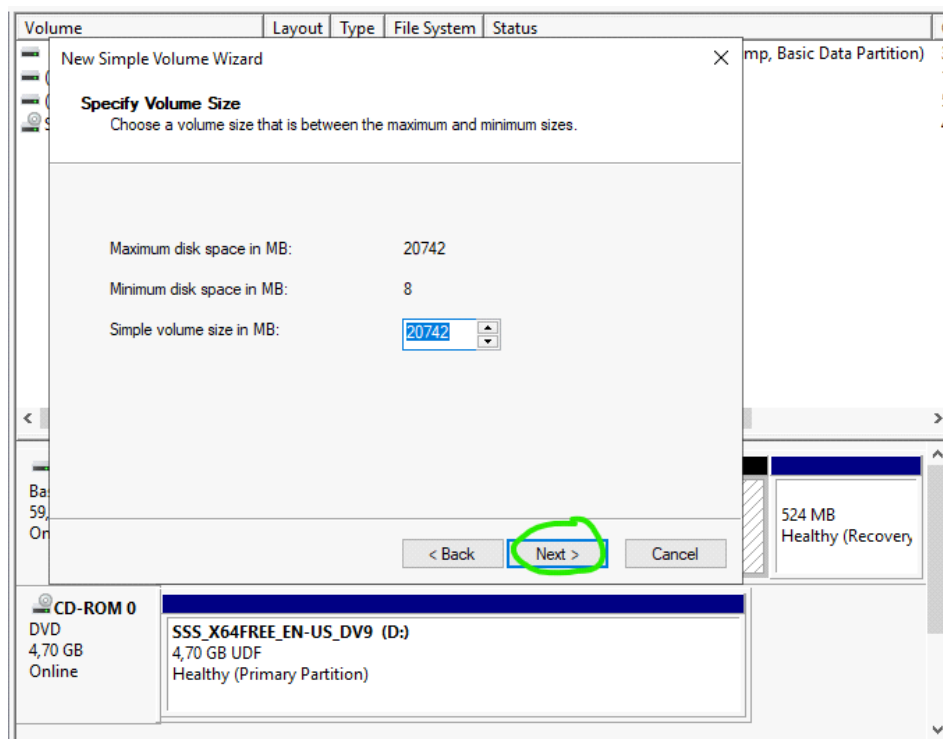
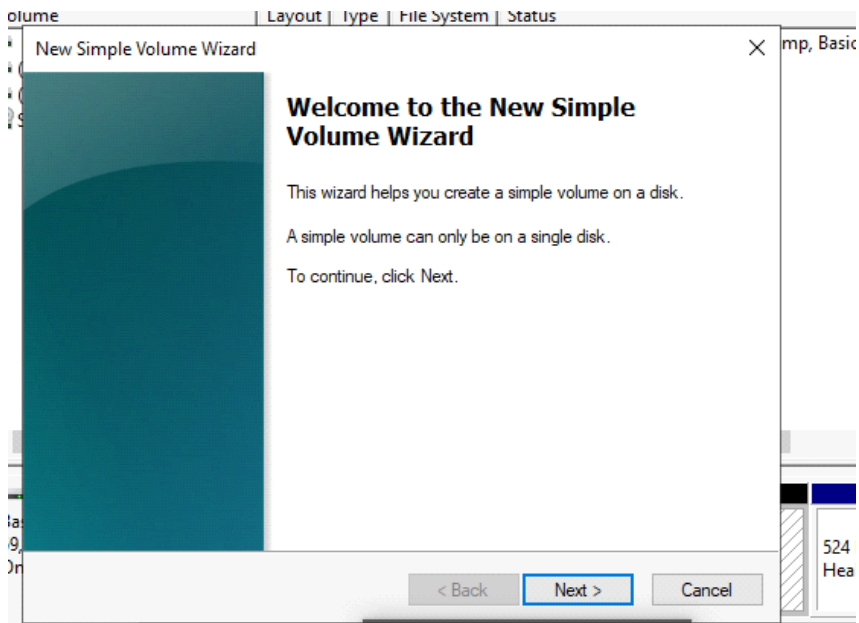




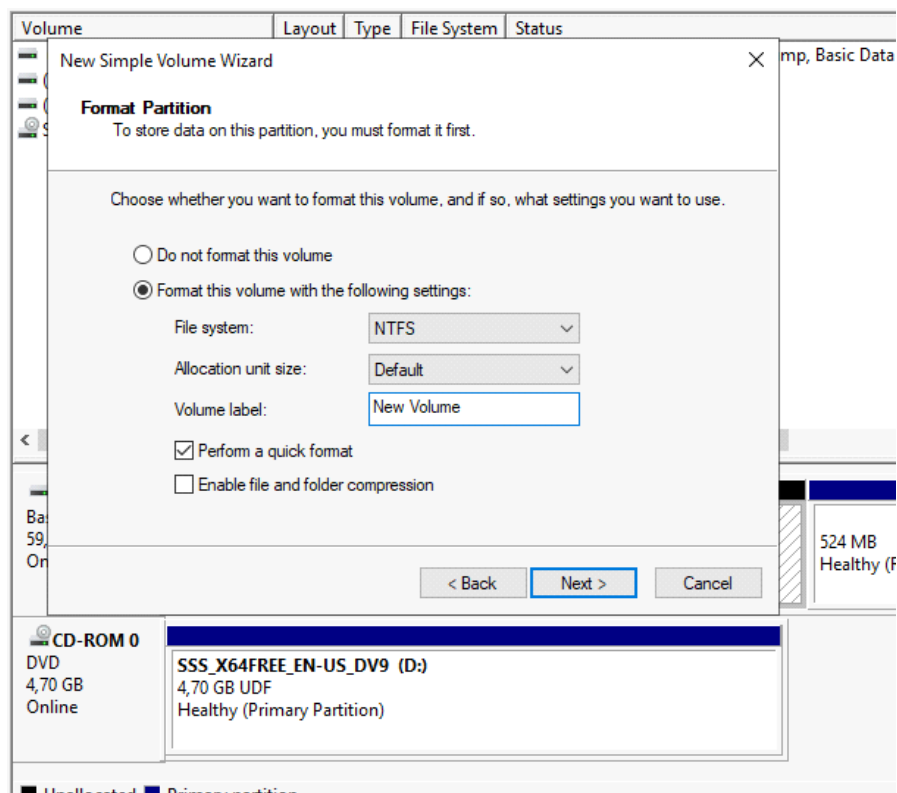
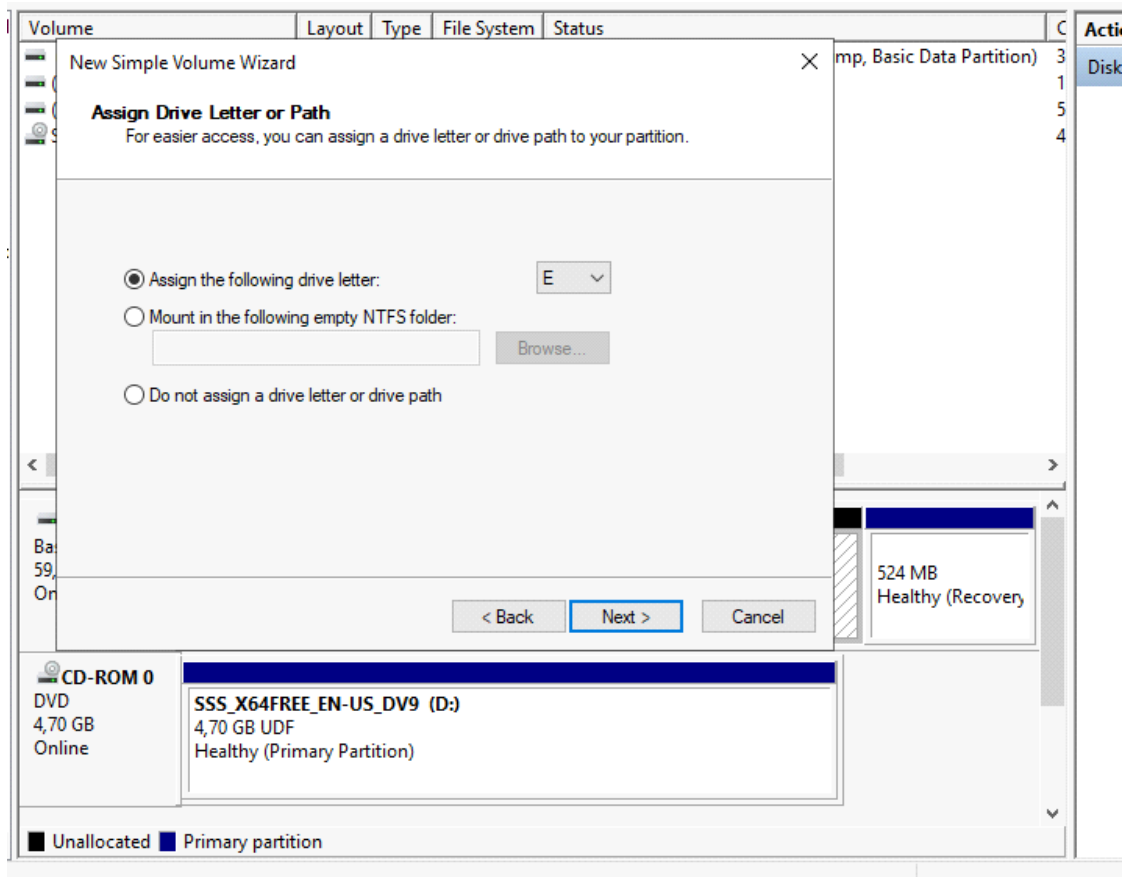
Kokeillaan 20GB - eli pienetään ja tästä sen jälkeen saadaan aad ds levy



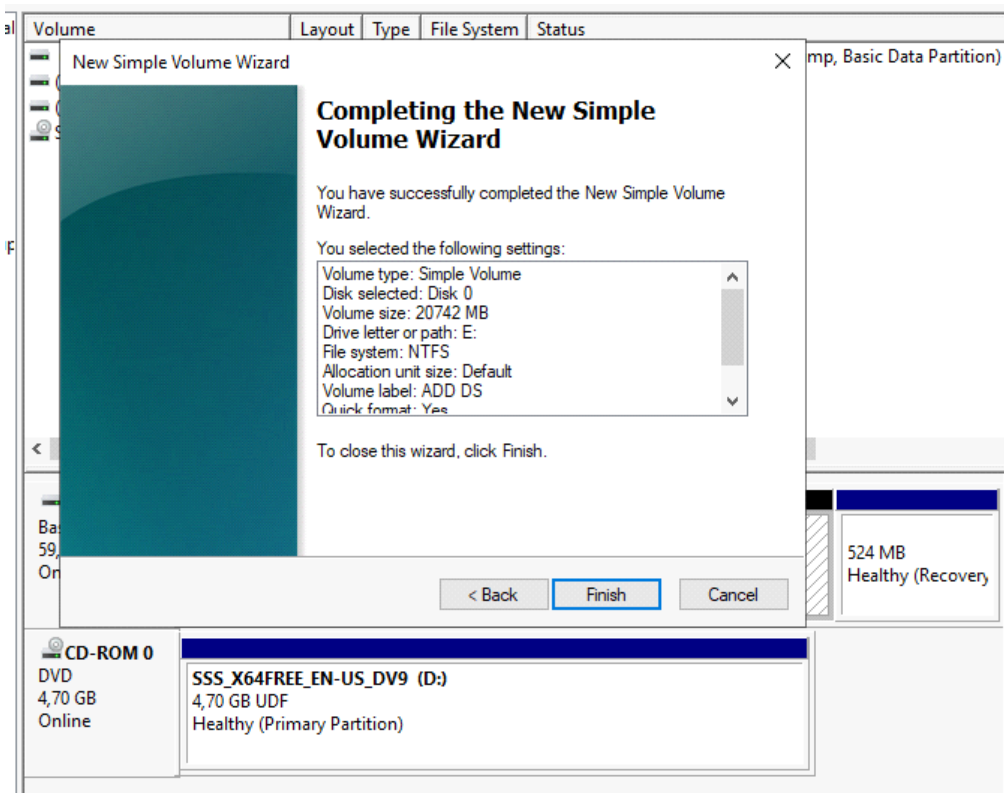
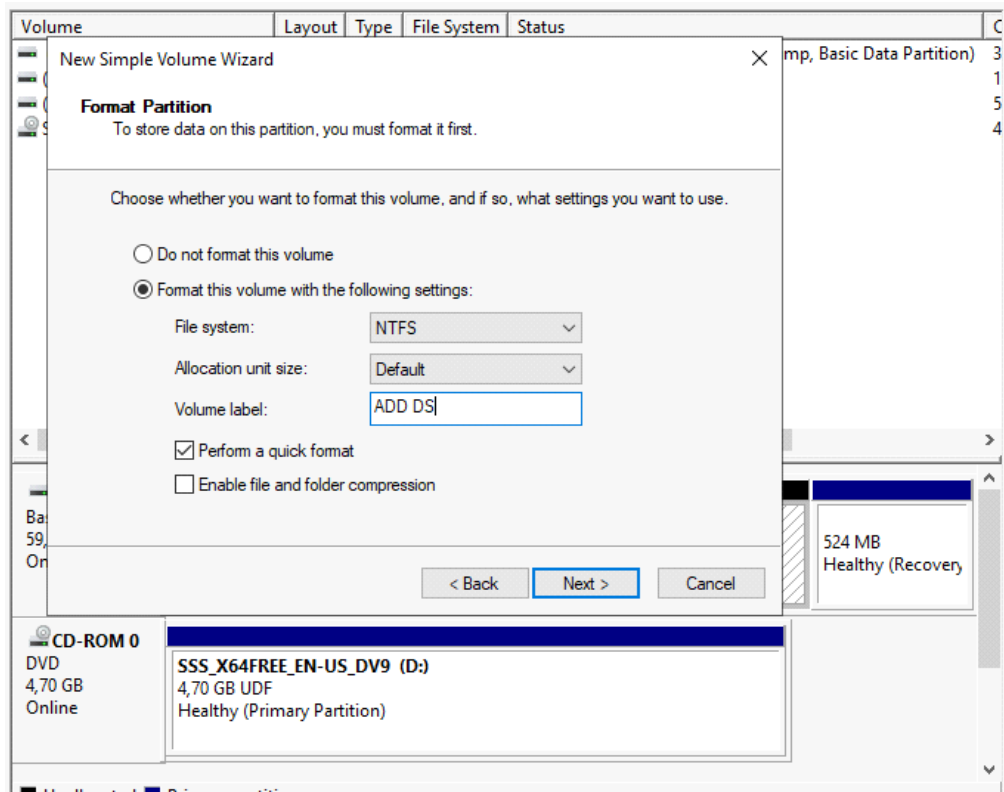
Seuraavaksi velho käyttöön



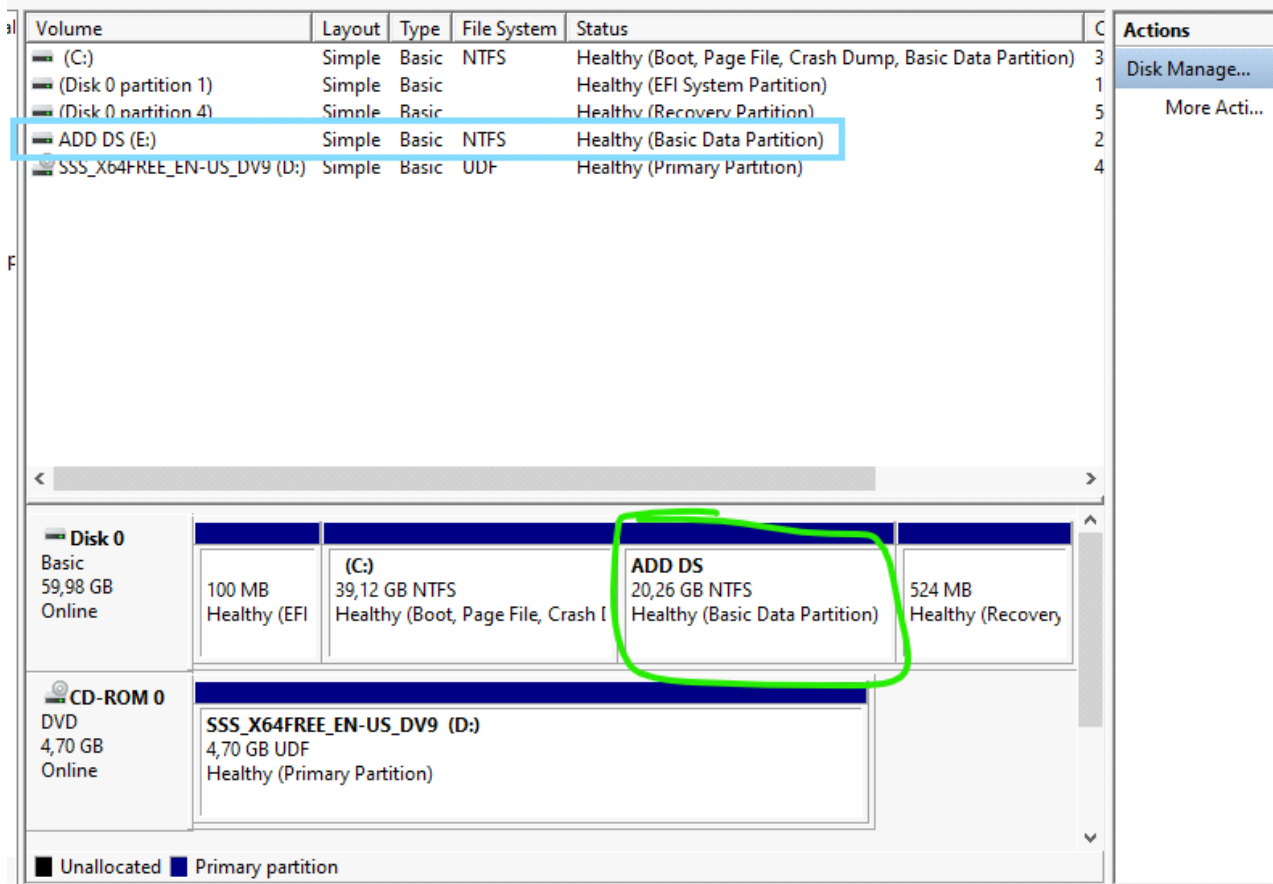
Tässä on oletuksena E - kirjain , se on vain se levy että millä kirjaimella X levy



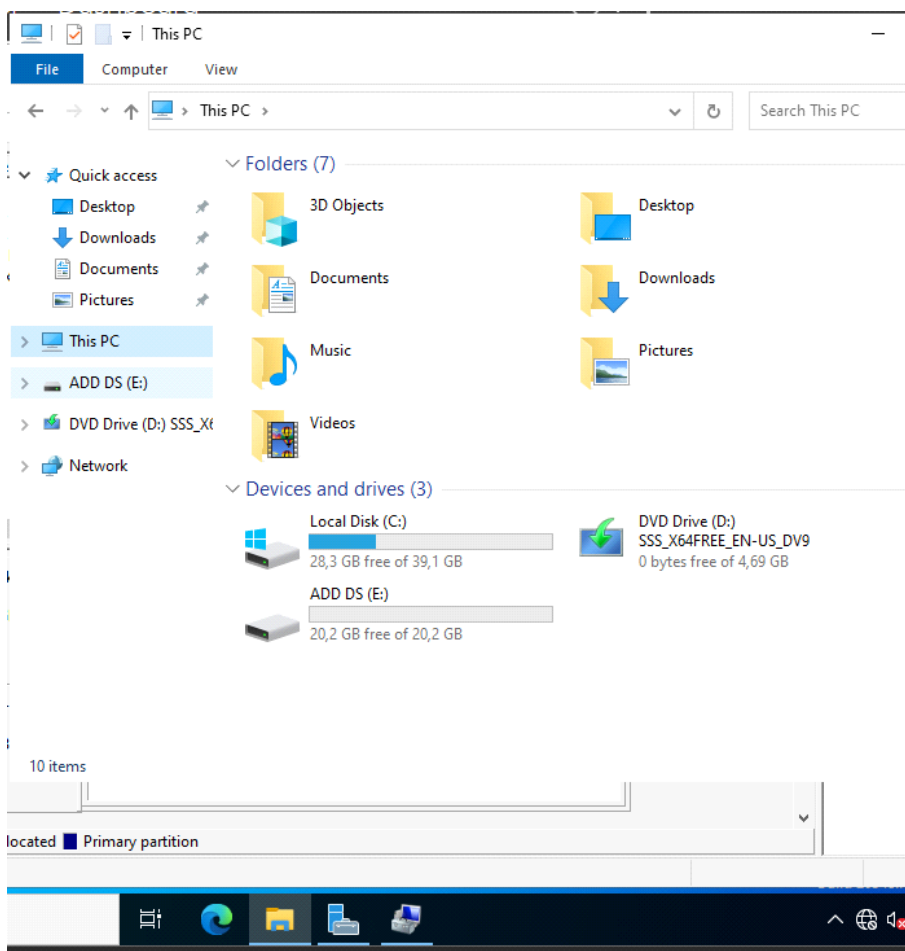
Annat volume label: joku nimi vaan - jos unohtuu antaa nimen niin "computer management >>> Disk management" alta voi editoida sen nimensä.



Finish - jälkeen tulee pieni viive niin sitten se levy tulee näkyvinsä



Näin saadaan se toinen levy, ja varmistetaan ettei ole C-levyn juuressa.



#####

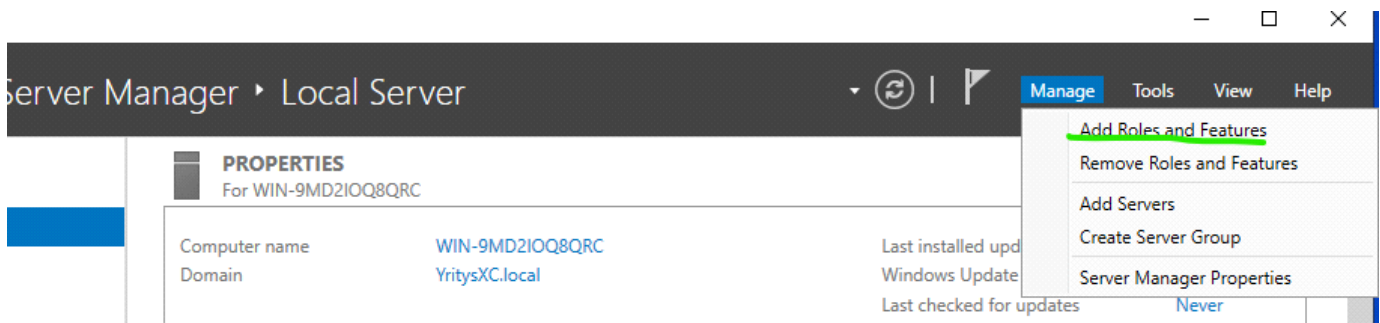
#####

TODO - 2 - DHCP asennus - START HERE;

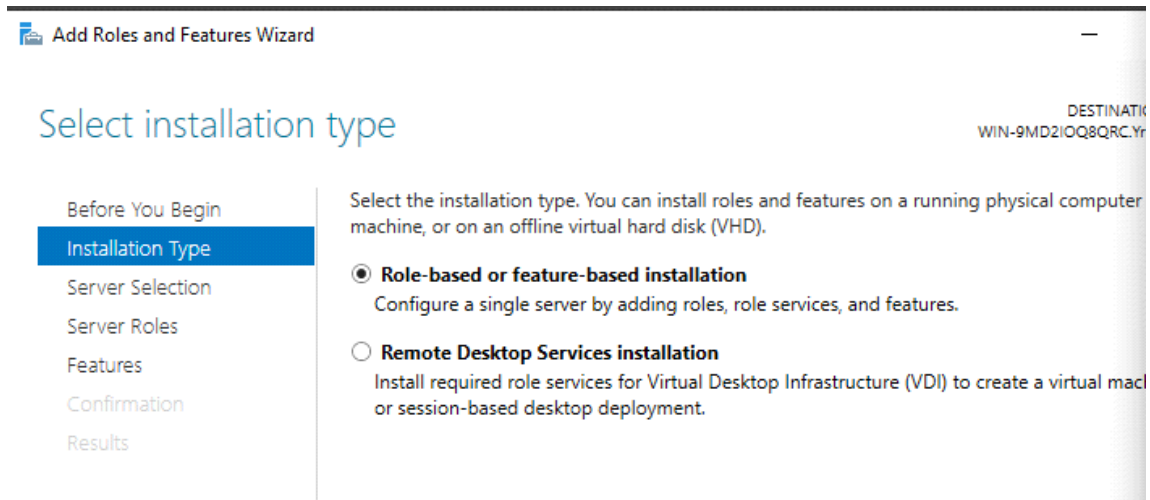
Kokeillaan leikisti konffaa 100 työasemaa (1 työasema) ja sillä kautta esim. Laitettaisiin 2 tunnusta

DHCP ja IP-osoitteiden jako kertauksena:

- DHCP-palvelin jakaa automaattisesti IP-osoitteita asiakaslaitteille.
- Käytössä oleva IP-osoitealue on yleensä **192.168.100.1–192.168.100.254**.
- Osoitteet jaetaan **dynaamisesti ja satunnaisesti** vapaiden osoitteiden joukosta.
- **192.168.100.1** on usein varattu **reitittimelle** (gateway), ja **192.168.100.254** voi olla varattuna esimerkiksi **broadcast-osoitteeksi** tai toiselle tärkeälle laitteelle.
- Kyseessä on **yksityinen IP-osoiteavaruus**, jota käytetään sisäverkoissa (RFC 1918).
- Näitä osoitteita käytetään tyypillisesti **työasemille, palvelimille ja muille sisäverkon laitteille**.



Jatkuu samalla rooli pohjalla



Tämä on serveri toimi alue, että sitä nimeä voi muuttaakin ja lyhentää - pidettynä nyt oletuksena näin

Add Roles and Features Wizard

DESTINATION SERVER
WIN-9MD2IOQ8QRC.YritysXC.local

Select destination server

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results

Select a server or a virtual hard disk on which to install roles and features.

☒ Select a server from the server pool
☐ Select a virtual hard disk

Server Pool

Filter:

Name	IP Address	Operating System
WIN-9MD2IOQ8QRC.Yrit...	192.168.100.10	Microsoft Windows Server 2022 Standard Evaluation

Select server roles

Before You Begin
Installation Type
Server Selection
Server Roles
Features
Confirmation
Results

Select one or more roles to install on the selected server.

Roles

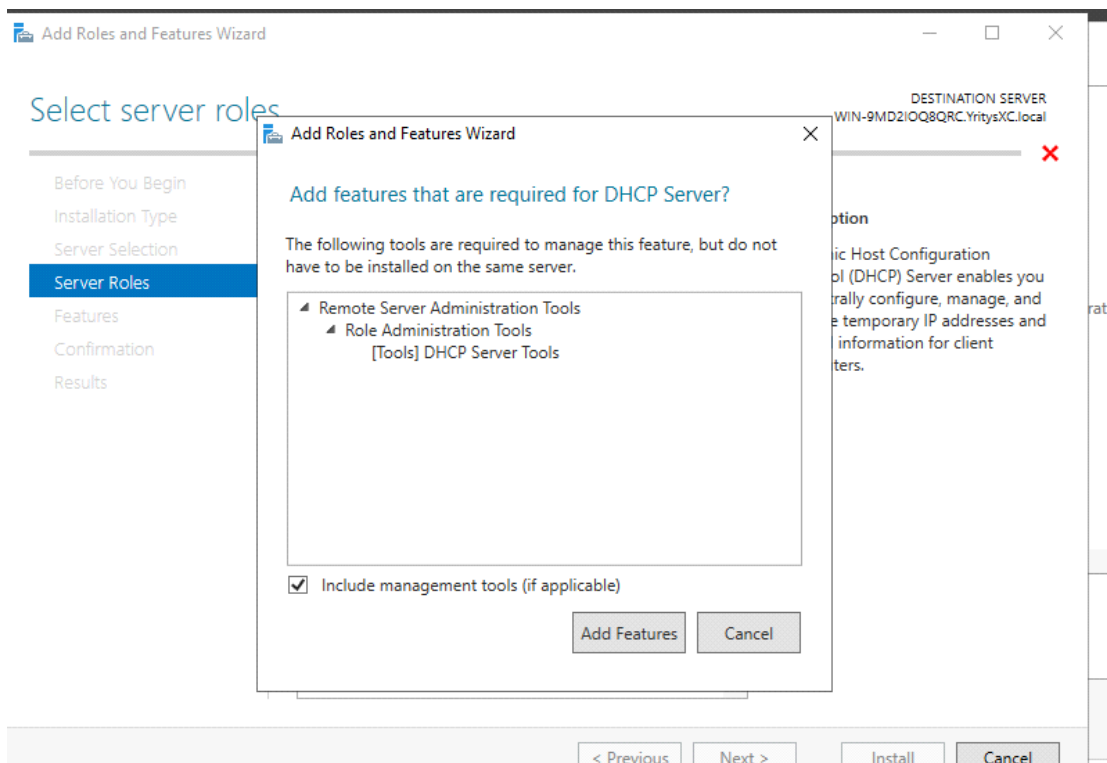
- ☐ Active Directory Certificate Services
- ☒ Active Directory Domain Services (Installed)
- ☐ Active Directory Federation Services
- ☐ Active Directory Lightweight Directory Services
- ☐ Active Directory Rights Management Services
- ☐ Device Health Attestation
- ☐ DHCP Server
- ☒ DNS Server (Installed)
- ☐ Fax Server
- ☒ File and Storage Services (2 of 12 installed)
 - ☐ Host Guardian Service
 - ☐ Hyper-V
 - ☐ Network Policy and Access Services
 - ☐ Print and Document Services
 - ☐ Remote Access
 - ☐ Remote Desktop Services
 - ☐ Volume Activation Services
 - ☐ Web Server (IIS)
 - ☐ Windows Deployment Services
 - ☐ Windows Server Update Services

Describe

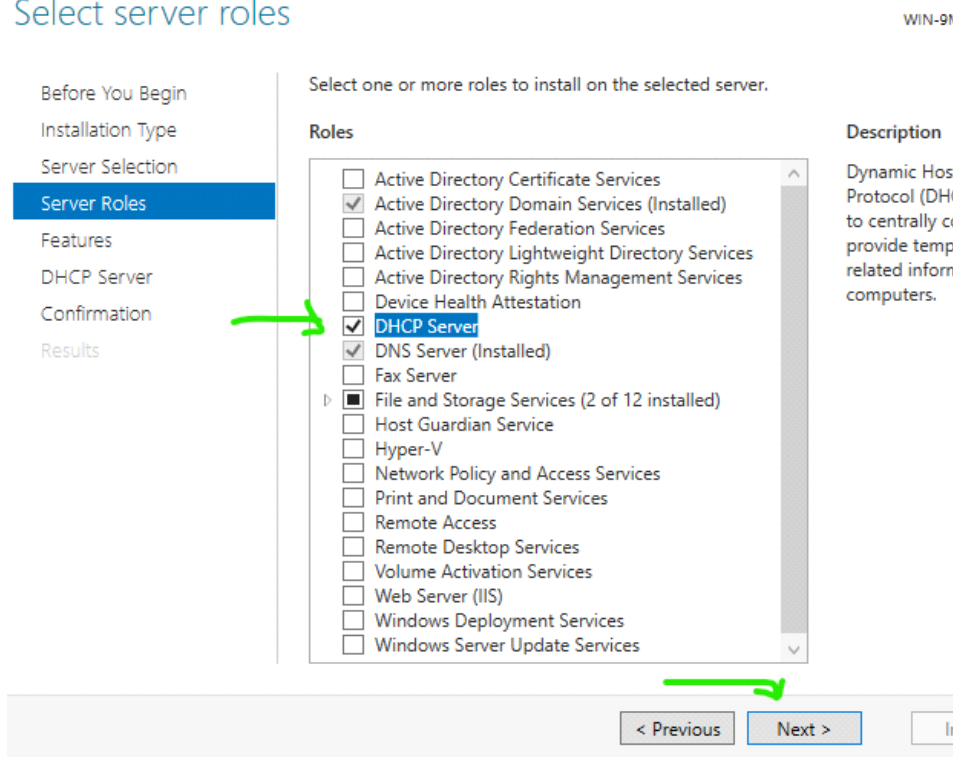
Dynami
Proto
to centr
provide
related
comput

< Previous Next >

Pikainen tarkistus että se lataa ne "tools:it"



Select server roles



Features - voi skipata ellei tarvitse tiettyä ominaisuutta

Select features

Before You Begin

Installation Type

Server Selection

Server Roles

Features

DHCP Server

Confirmation

Results

Select one or more features to install on the selected server.

Features

Features	Desc
<input type="checkbox"/> .NET Framework 3.5 Features	.NET
<input checked="" type="checkbox"/> .NET Framework 4.8 Features (2 of 7 installed)	power
<input type="checkbox"/> Background Intelligent Transfer Service (BITS)	APIs
<input type="checkbox"/> BitLocker Drive Encryption	build
<input type="checkbox"/> BitLocker Network Unlock	appe
<input type="checkbox"/> BranchCache	your
<input type="checkbox"/> Client for NFS	infor
<input type="checkbox"/> Containers	secur
<input type="checkbox"/> Data Center Bridging	the a
<input type="checkbox"/> Direct Play	busir
<input type="checkbox"/> Enhanced Storage	
<input type="checkbox"/> Failover Clustering	
<input checked="" type="checkbox"/> Group Policy Management (Installed)	
<input type="checkbox"/> Host Guardian Hyper-V Support	
<input type="checkbox"/> I/O Quality of Service	
<input type="checkbox"/> IIS Hostable Web Core	
<input type="checkbox"/> Internet Printing Client	
<input type="checkbox"/> IP Address Management (IPAM) Server	
<input type="checkbox"/> LPR Port Monitor	

< Previous

Next >

Pieni huomio

DHCP Server

DESTINATION SERVER
WIN-9MD2IOQ8QRC.YritysXC.local

Before You Begin

Installation Type

Server Selection

Server Roles

Features

DHCP Server

Confirmation

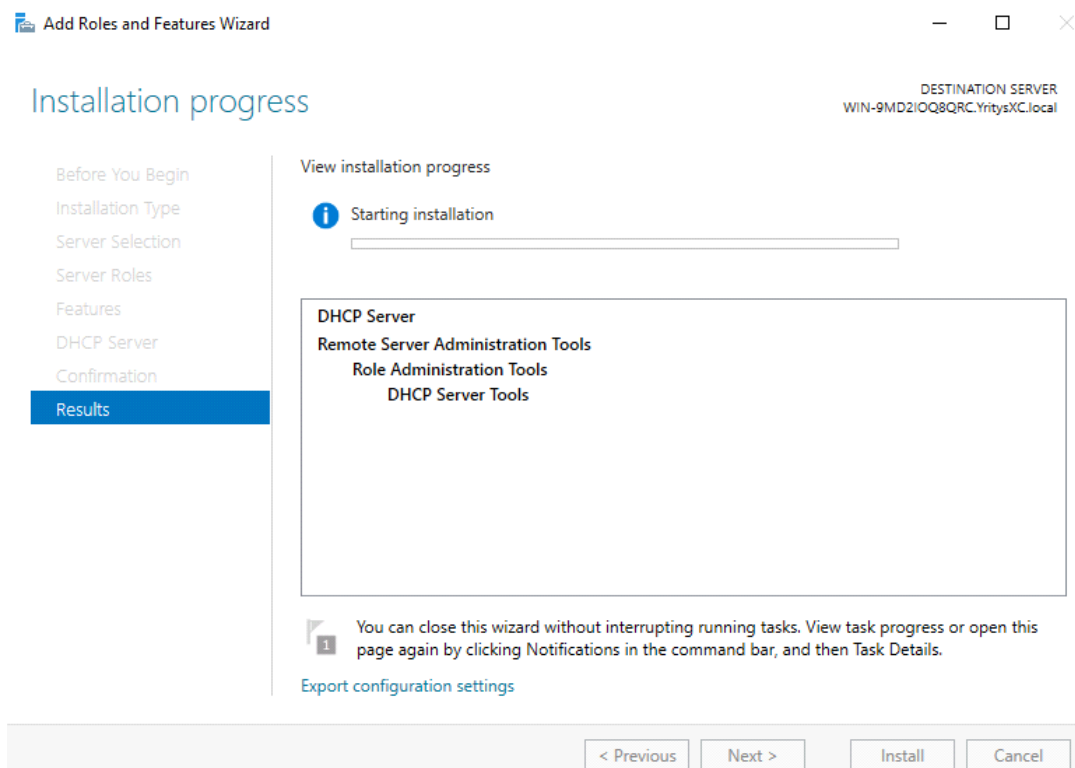
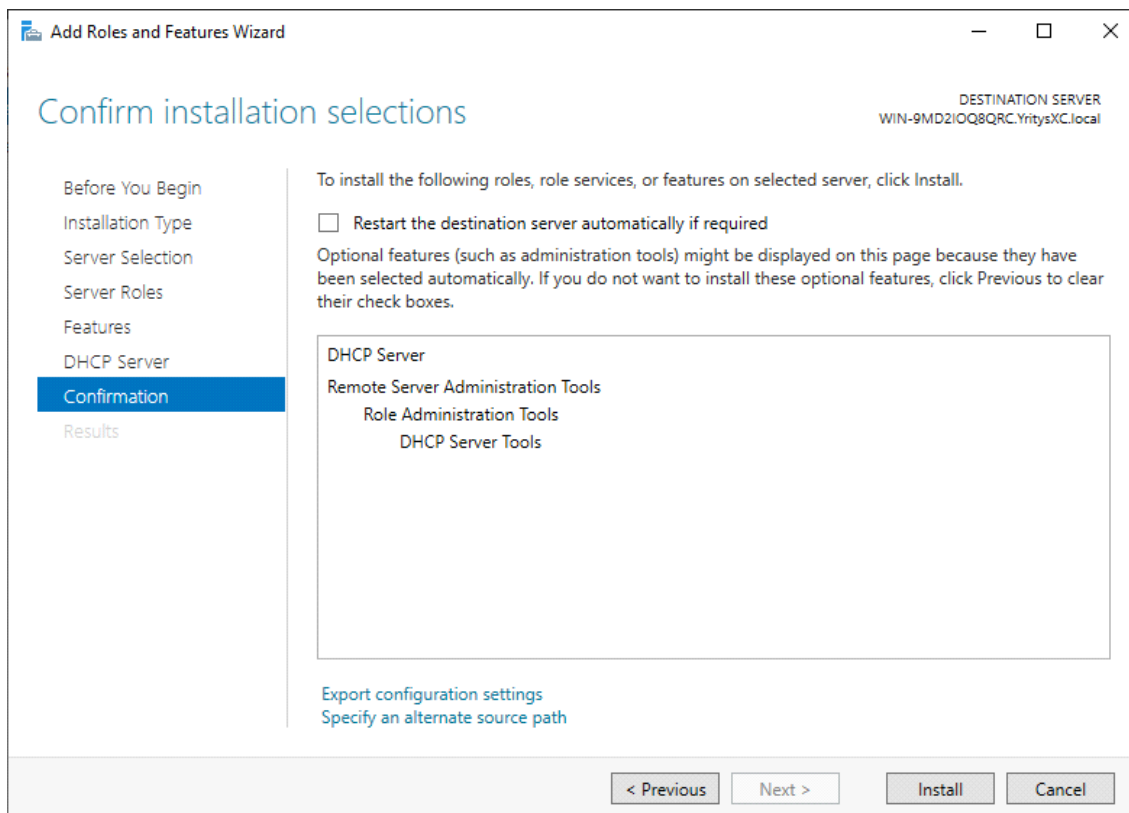
Results

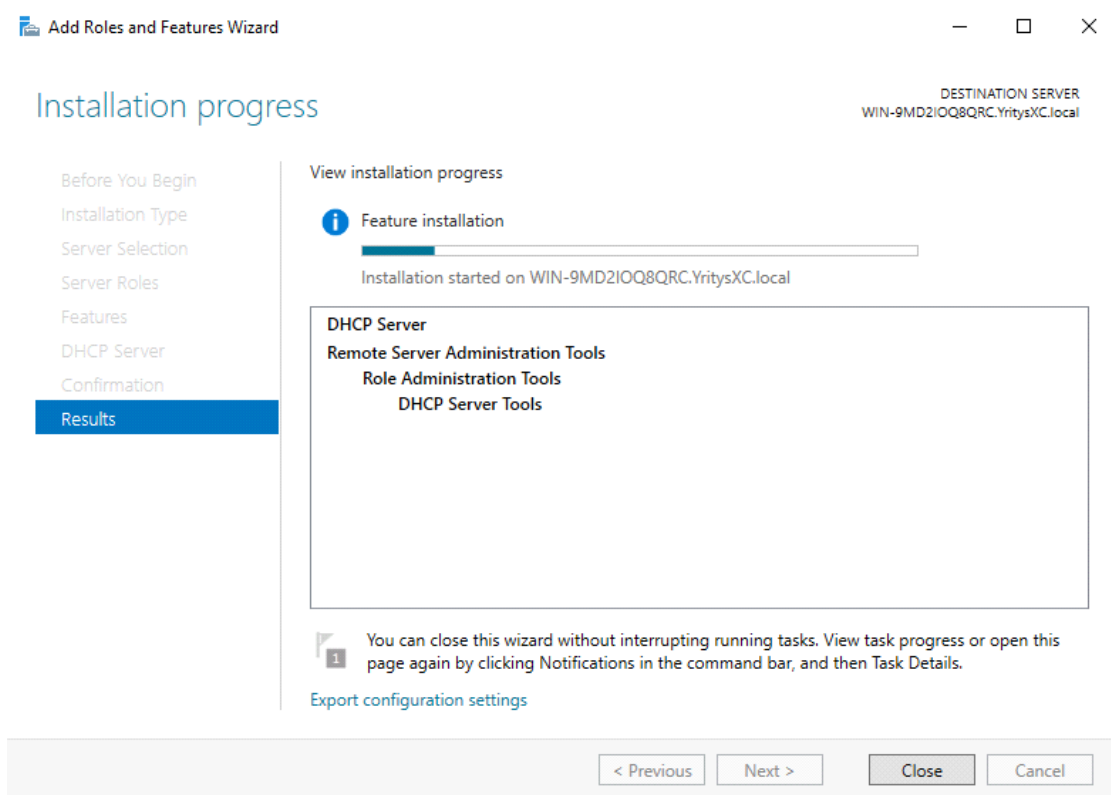
The Dynamic Host Configuration Protocol allows servers to assign, or lease, IP addresses to computers and other devices that are enabled as DHCP clients. Deploying a DHCP server on the network provides computers and other TCP/IP-based network devices with valid IP addresses and the additional configuration parameters these devices need, called DHCP options. This allows computers and devices to connect to other network resources, such as DNS servers, WINS servers, and routers.

Things to note:

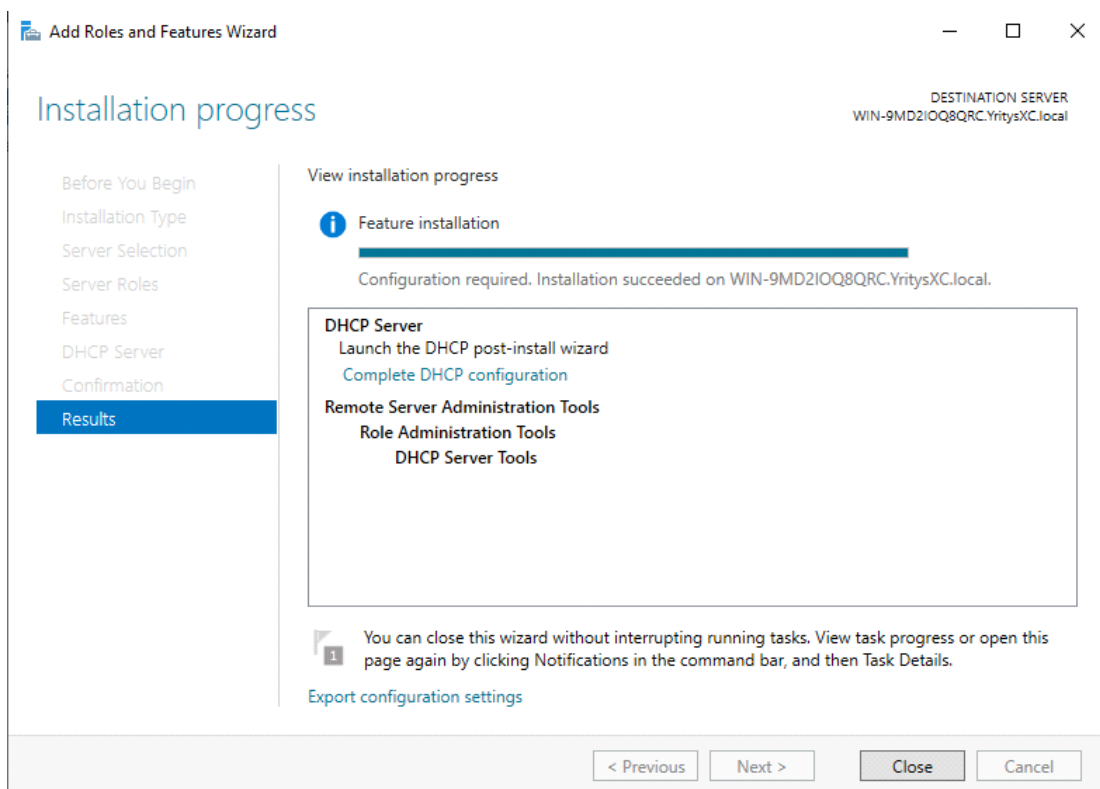
- You should configure at least one static IP address on this computer.
- Before you install DHCP Server, you should plan your subnets, scopes and exclusions. Store the plan in a safe place for later reference.

Pieni yhteenveto ja tarkistus sitten vaan "install"

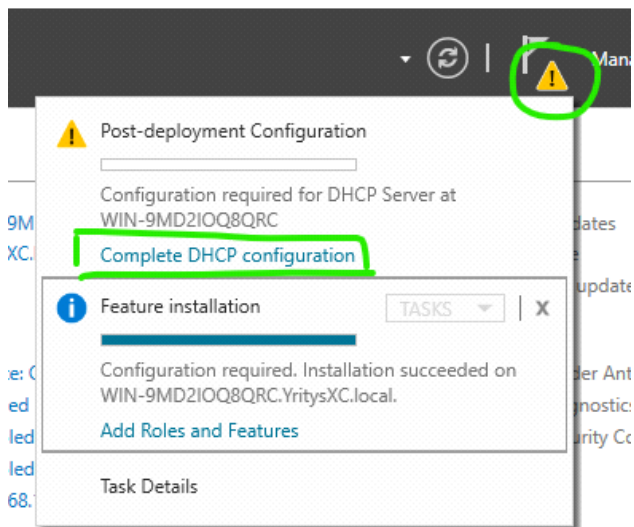




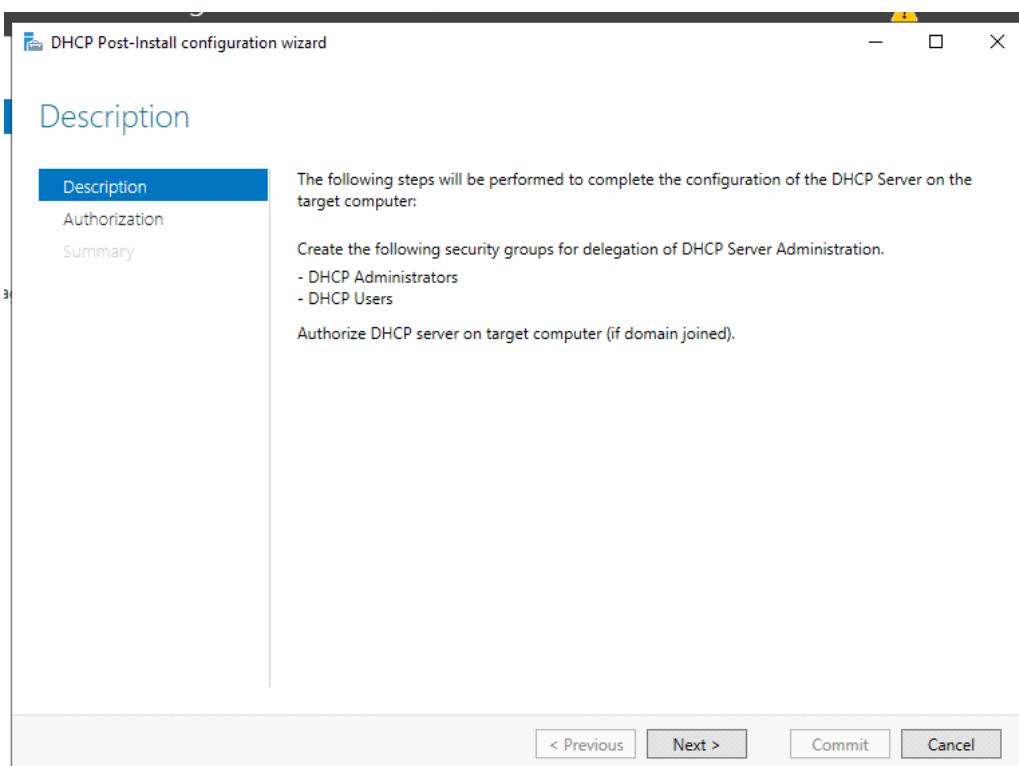
Valmis



Sitten taas uusi huomio lippu ja siten vaan suorittamaan/viimeistellä loppuun asti tämä ladattu osa



Kuvaus koskien DHCP



Tarkistus ja hyväksyntä - pidä tämä oletuksena

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: YRITYSXC\Administrator

☐ Use alternate credentials

UserName: Specify...

☐ Skip AD authorization

< Previous Next > Commit Cancel

DHCP Post-Install configuration wizard

Summary

Description

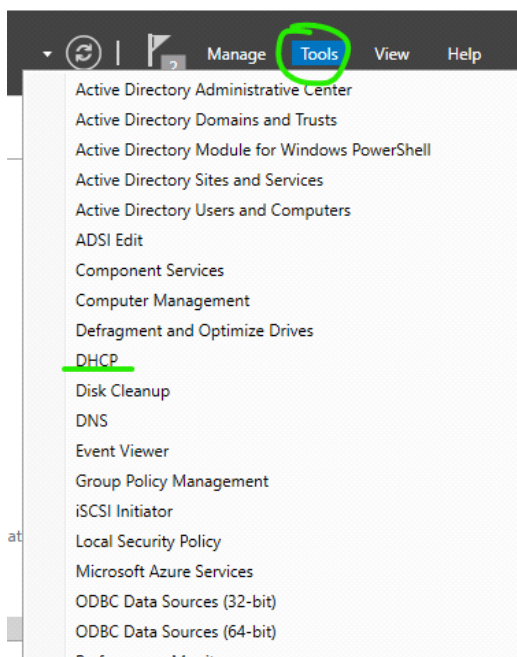
Authorization

Summary

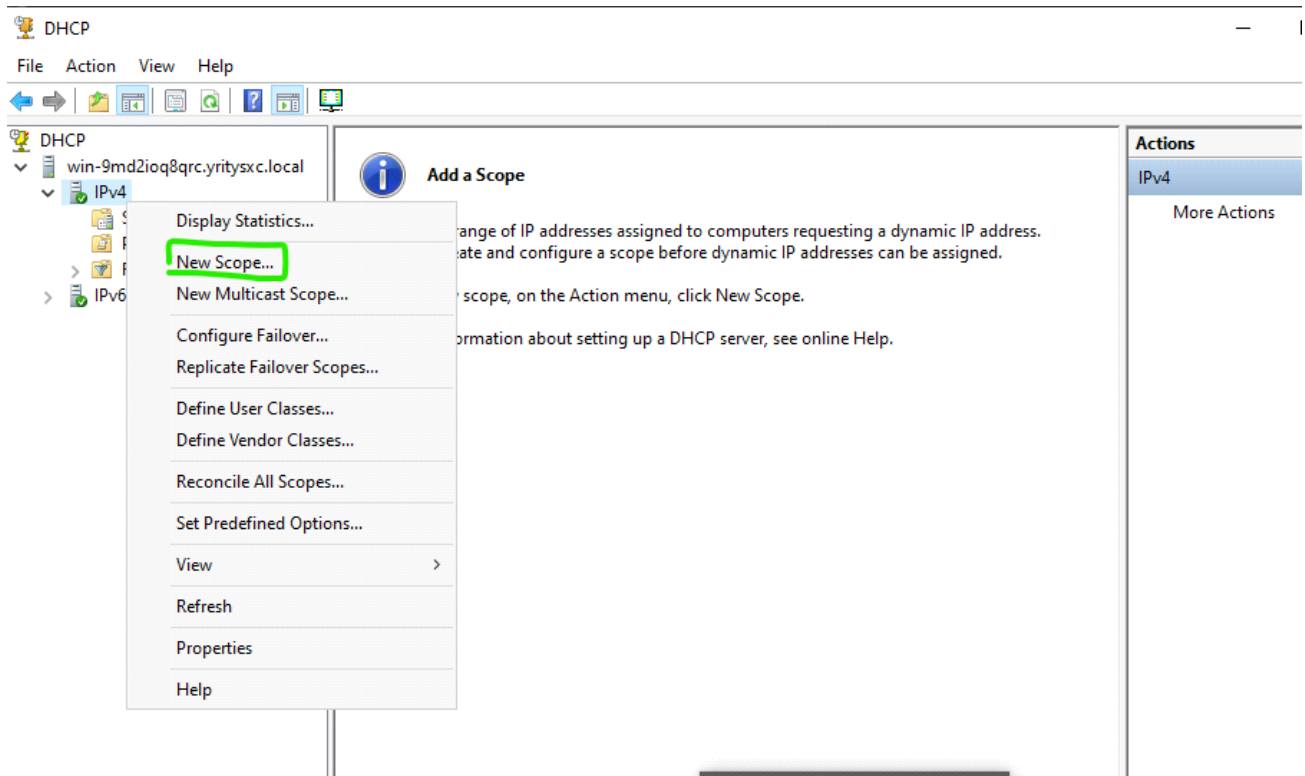
The status of the post install configuration steps are indicated below:

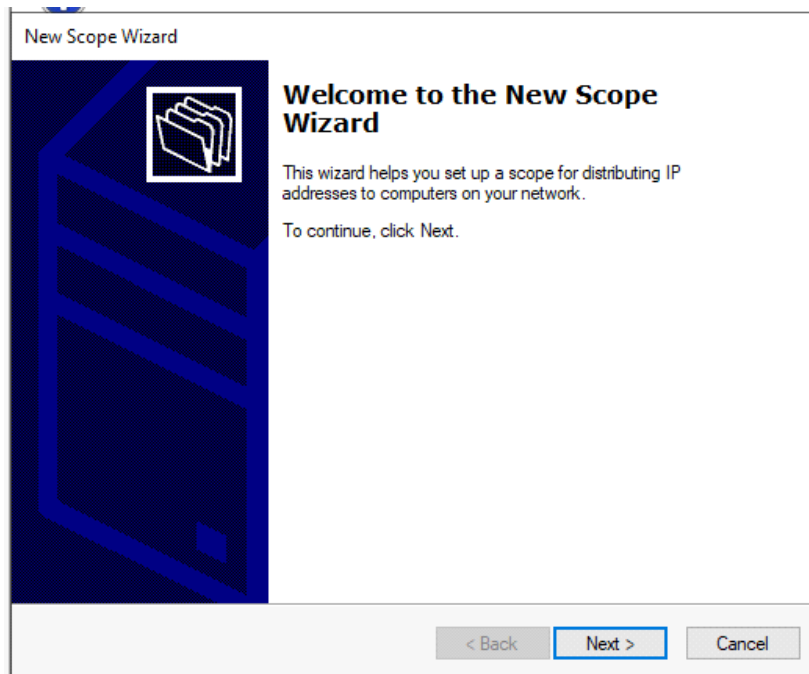
Creating security groups	Done
Please restart the DHCP server service on the target computer for the security groups to be effective.		
Authorizing DHCP server	Done

Nyt DHCP konffaus on valmis nyt ja seuraavaksi työasema scope lisätään nyt.



Huomoina tuossa IPV4 ja IPV6:ssa on vihree niin on käytössä ja toiminnassa





Seuraavaksi nimeä jotakin ja pieni kuvaus

The image shows the 'New Scope Wizard' window at the 'Scope Name' step. The title bar says 'New Scope Wizard'. The section title is 'Scope Name'. The text says 'You have to provide an identifying scope name. You also have the option of providing a description.' Below this is a blue icon of a folder. The instructions say 'Type a name and description for this scope. This information helps you quickly identify how the scope is to be used on your network.' There are two input fields: 'Name:' with the text 'Wks' and 'Description:' with the text 'työasemat'.

Kokeillaan asettaa n. mutta esim. Työasemat tulee saamaan jotakin 192.168.100.100 ja 192.168.100.199 joku IP-osite tuosta välistä

The image shows the 'New Scope Wizard' window at the 'IP Address Range' step. The title bar says 'New Scope Wizard'. The section title is 'IP Address Range'. The text says 'You define the scope address range by identifying a set of consecutive IP addresses.' Below this is a blue icon of a folder. The instructions say 'Enter the range of addresses that the scope distributes.' There are two input fields: 'Start IP address:' with the text '192 . 168 . 100 . 100' and 'End IP address:' with the text '192 . 168 . 100 . 199'. Below these is a section titled 'Configuration settings that propagate to DHCP Client'. It contains two input fields: 'Length:' with a dropdown menu showing '24' and 'Subnet mask:' with the text '255 . 255 . 255 . 0'. At the bottom right are three buttons: '< Back', 'Next >' (highlighted with a blue border), and 'Cancel'.

Tämä osuus jää tyhjäksi, koska tämä on se alue josta esim. Ei haluta josta voidaan esim. Asettaa 192.168.100.10 ja 192.168.100.15 kiellettyä aluetta & oletuksena tämä jää tyhjäksi

New Scope Wizard

Add Exclusions and Delay

Exclusions are addresses or a range of addresses that are not distributed by the server. A delay is the time duration by which the server will delay the transmission of a DHCP OFFER message.

Type the IP address range that you want to exclude. If you want to exclude a single address, type an address in Start IP address only.

Start IP address: End IP address:

Excluded address range:

Subnet delay in milli second:

< Back **Next >** Cancel

Oletus arvo 8pv

New Scope Wizard

Lease Duration

The lease duration specifies how long a client can use an IP address from this scope.

Lease durations should typically be equal to the average time the computer is connected to the same physical network. For mobile networks that consist mainly of portable computers or dial-up clients, shorter lease durations can be useful. Likewise, for a stable network that consists mainly of desktop computers at fixed locations, longer lease durations are more appropriate.

Set the duration for scope leases when distributed by this server.

Limited to:

Days: Hours: Minutes:

< Back **Next >** Cancel

New Scope Wizard

Configure DHCP Options

You have to configure the most common DHCP options before clients can use the scope.



When clients obtain an address, they are given DHCP options such as the IP addresses of routers (default gateways), DNS servers, and WINS settings for that scope.

The settings you select here are for this scope and override settings configured in the Server Options folder for this server.

Do you want to configure the DHCP options for this scope now?

- ☒ Yes, I want to configure these options now
- ☐ No, I will configure these options later

< Back

Next >

Cancel

New Scope Wizard

Router (Default Gateway)

You can specify the routers, or default gateways, to be distributed by this scope.



To add an IP address for a router used by clients, enter the address below.

IP address:

192 . 168 . 100 . 1

Add

Remove

Up

Down

< Back

Next >

Cancel

Router (Default Gateway)

You can specify the routers, or default gateways, to be distributed by this scope.

To add an IP address for a router used by clients, enter the address below.

IP address:

1 . . .

Add

192.168.100.1

Remove

Up

Down

Tämä on se DNS palvelin siksi 192.168.100.2

New Scope Wizard

Domain Name and DNS Servers
The Domain Name System (DNS) maps and translates domain names used by clients on your network.

You can specify the parent domain you want the client computers on your network to use for DNS name resolution.

Parent domain:

To configure scope clients to use DNS servers on your network, enter the IP addresses for those servers.

Server name:	IP address:	
<input type="text"/>	<input type="text" value="192.162.100.2"/>	<input type="button" value="Add"/> <input type="button" value="Remove"/> <input type="button" value="Up"/> <input type="button" value="Down"/>

< Back **Next >** Cancel

Tämä voi jättää tyhjäksi

New Scope Wizard

WINS Servers
Computers running Windows can use WINS servers to convert NetBIOS computer names to IP addresses.

Entering server IP addresses here enables Windows clients to query WINS before they use broadcasts to register and resolve NetBIOS names.

Server name:	IP address:	
<input type="text"/>	<input type="text" value="1 . . ."/>	<input type="button" value="Add"/> <input type="button" value="Remove"/> <input type="button" value="Up"/> <input type="button" value="Down"/>

To change this behavior for Windows DHCP clients modify option 046, WINS/NBT Node Type, in Scope Options.

< Back **Next >** Cancel

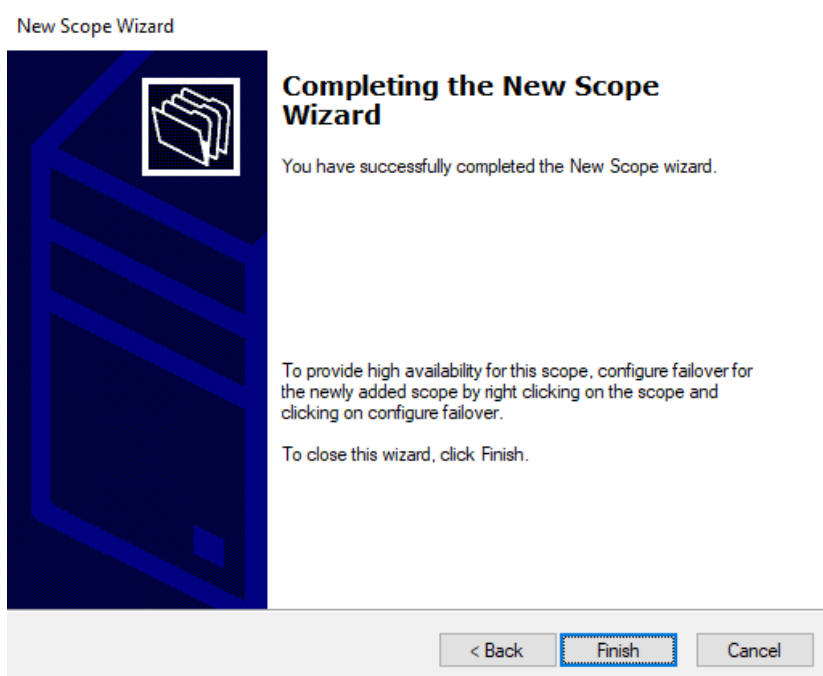
Aktivoidaan tämä

New Scope Wizard

Activate Scope
Clients can obtain address leases only if a scope is activated.

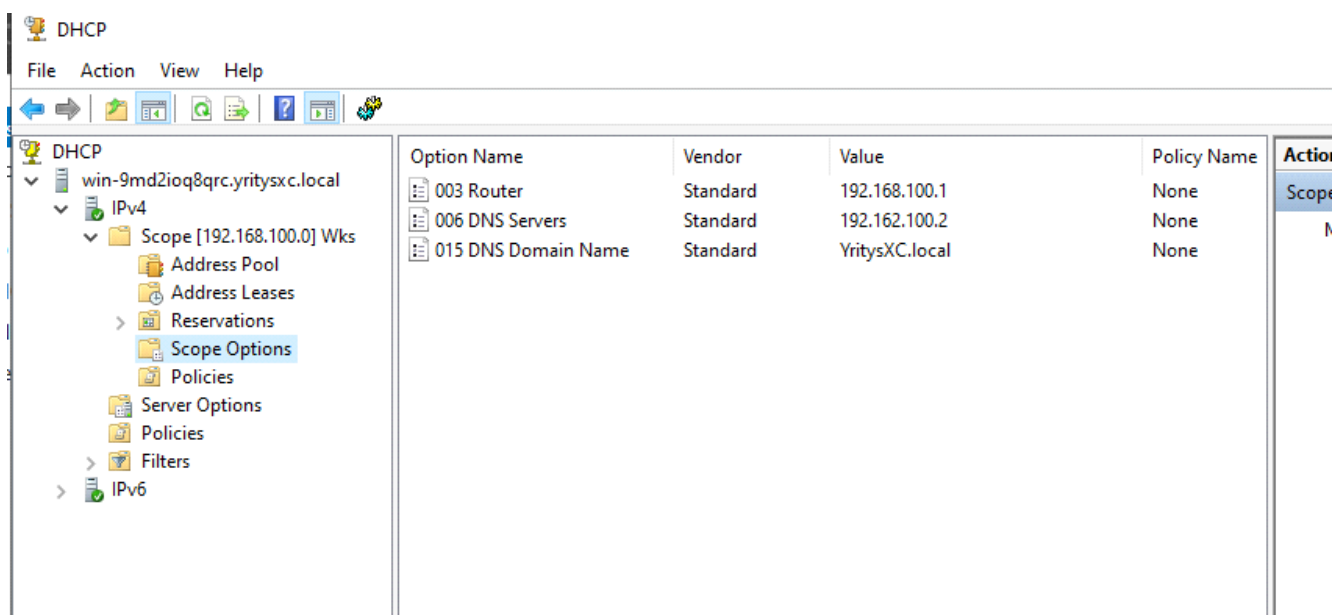
Do you want to activate this scope now?

☒ Yes, I want to activate this scope now
☐ No, I will activate this scope later



Sitten tehdä tarkistuksena tämän alta että kaikki on ok - eli näiden arvot pitäisi näkyä

Työasemat pitäisi saada sitten näiden osoitteen mukaan palvelimeen yhteydessä



JATKUU TOISESSA SIVUSTOSSA (CONTINUE..) EI TURHAN LIIAN OHJE - PITKÄ SCROLLAUS