

OS Advanced

Labo 2 : Active Directory

IP-ADRESSEN:

MACHINE	IPv4-adres	IPv6-adres	DHCP	DG
Server 1	192.168.1.1	fd40:6fe1:902e:99b7::1	Neen	0.0.0.0
	169.254.82.45		Ja	192.168.1.1
Server 2	192.168.2.1	fd40:6fe1:902e:99b7::2	Neen	
	196.254.231.85		Ja	
Client 1	192.168.1.100		Ja (Server1)	
Client 2	192.168.2.2		Neen	192.168.2.1
webserver Ubuntu1	192.168.1.10/16		Neen	192.168.1.1
webserver Ubuntu2	192.168.2.10/16		Neen	

primaryDNS

Internet Protocol Version 4 (TCP/IPv4) Properties

General

You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

☐ Obtain an IP address automatically

☒ Use the following IP address:

IP address:

 Subnet mask:

 Default gateway:

☐ Obtain DNS server address automatically

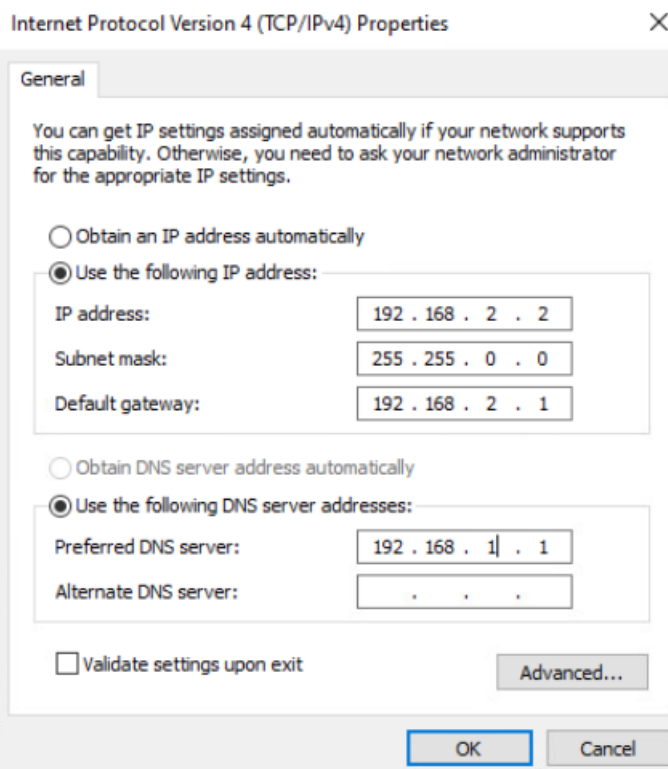
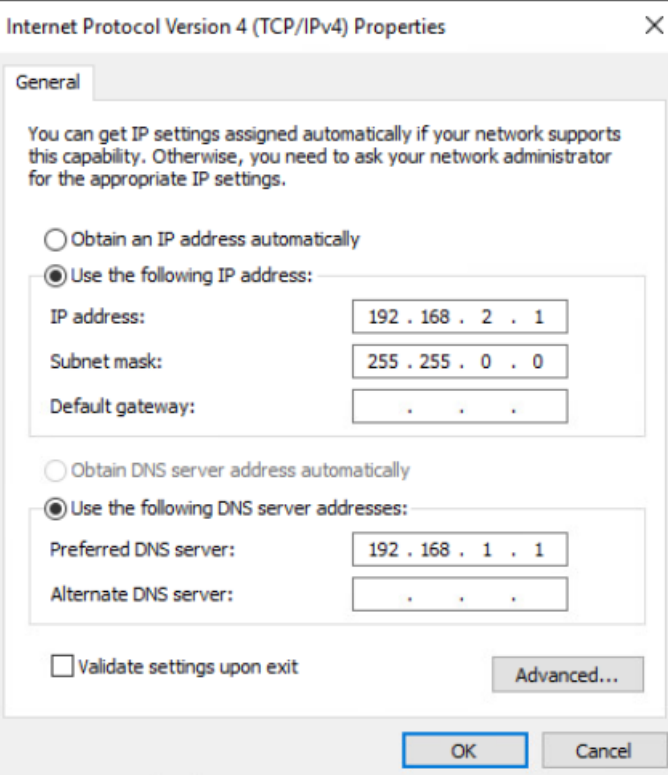
☒ Use the following DNS server addresses:

Preferred DNS server:

 Alternate DNS server:

☐ Validate settings upon exit
 Advanced...

OK
Cancel

Client2	
secondaryDNS	

1 Subnets

Voordat je iets doet met Active Directory, moet je ervoor zorgen dat je servers statische IP adressen hebben in de juiste subnetten:

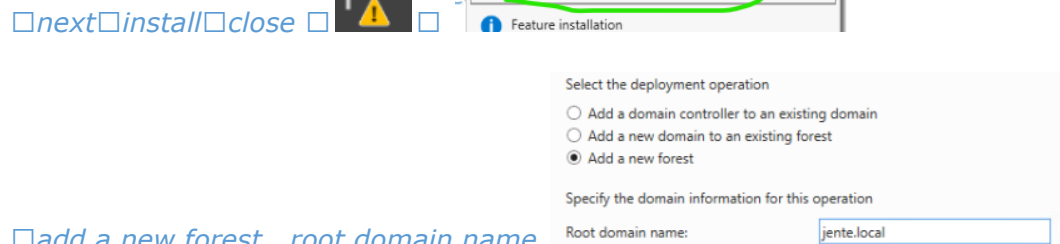
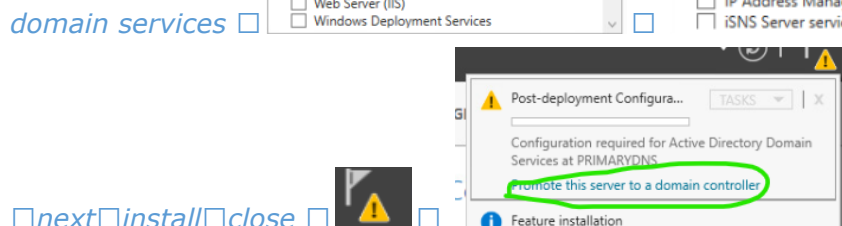
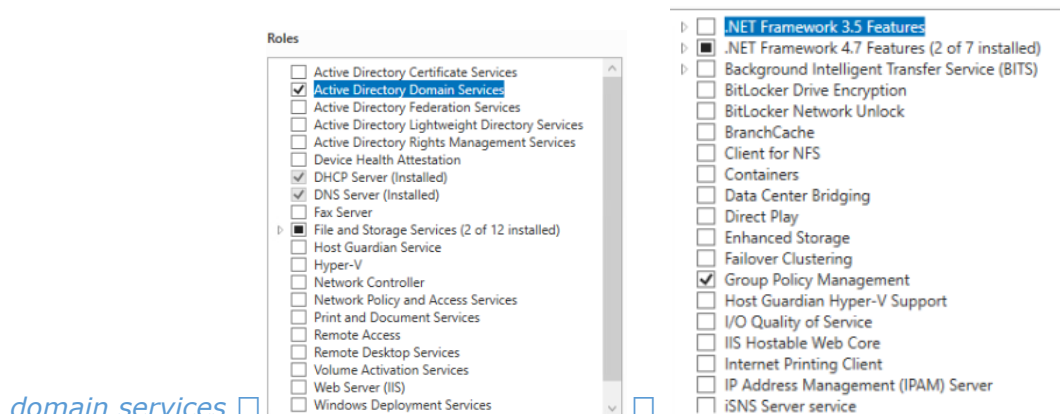
- Op site 1 (waar je primaire DNS server staat) gebruik je adressen 192.168.1.x
- op site 2 gebruik je de adressen 192.168.2.x. (kies x voor elk toestel)

Deze IP adressen worden alleen gebruikt op je studentxxx_priv netwerk!

2 Installatie Active Directory, nieuw domein

Als vervolg op de vorige oefening, gaan we nu onze eerste (primaire) DNS server promoveren tot Domain Controller (DC) van een nieuw domein <jouwnaam>.local. Zorg ervoor dat de naam van dit nieuwe domein verschilt van de naam van de DNS-zone die je in de vorige opdracht hebt aangemaakt (door deze bijvoorbeeld .local te noemen).

Server Manager □ Manage □ add roles and features □ next □ next □ next □ active directory



□ add a new forest , root domain name



The NetBIOS name of the domain: JENTE	Create DNS Delegation: No
Forest Functional Level: Windows Server 2016	Database folder: C:\Windows\NTDS
Domain Functional Level: Windows Server 2016	Log file folder: C:\Windows\NTDS
Additional Options:	SYSVOL folder: C:\Windows\SYSVOL
Global catalog: Yes	The DNS Server service will be configured on this computer.
DNS Server: Yes	This computer will be configured to use this DNS server as its preferred DNS server.
Create DNS Delegation: No	The password of the new domain Administrator will be the same as the password of the local Administrator of this computer.
Database folder: C:\Windows\NTDS	

☐install ☐ normaal restart hij vanzelf ☐

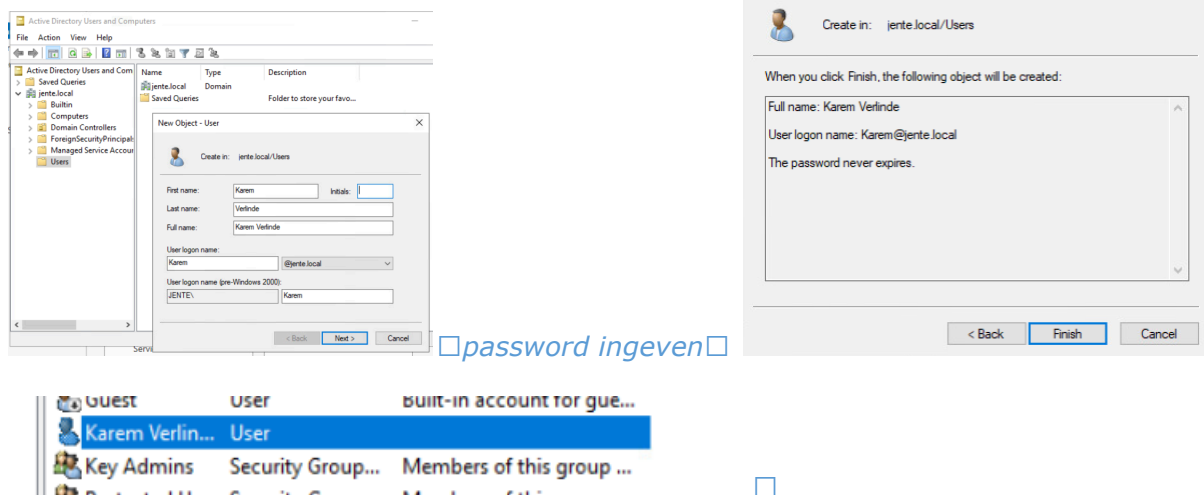
Voeg nu uw tweede virtuele Windows 10-client (degene die u hebt toegevoegd aan site 2 in de vorige opdracht) toe aan het nieuwe domein.

in de opdracht had ik problemen met azure AD dit omdat ik iets had aan gevinkt bij de installatie (geen idee wat)

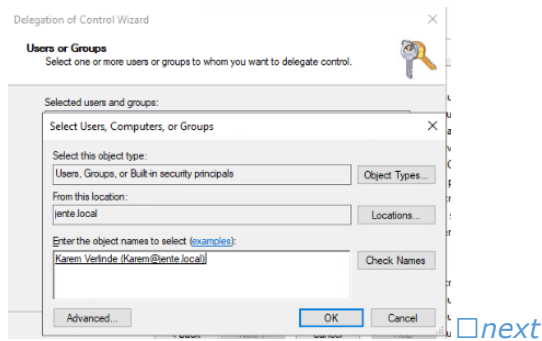
oplossing □ op u client □ other users □ add someone else to this pc (client 2 karem)(client1 gitte) □ klik op user and change account type □ admin □ access work or school □ connected to Thomas more azure AD DISCONNECT □ enter de username die je net hebt aangemaakt □ disconnect □ restart now □

This pc □ properties □ change settings □ change □ domain + "name" □ admin credentials "jente\administrator + wachtwoord"

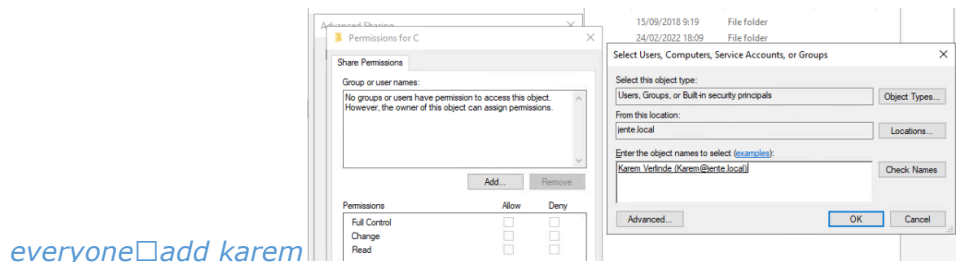
Maak een nieuwe domein gebruiker aan.



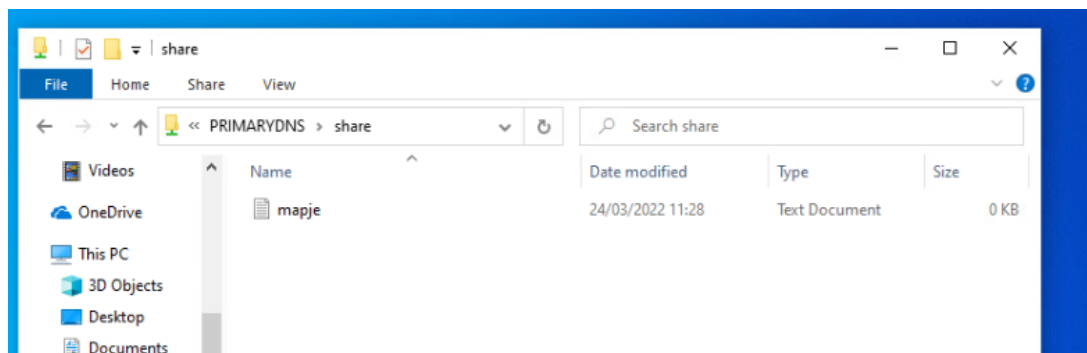
Op je DC maak je nu een share aan (een directory op de C-schijf), en je geeft deze domein gebruiker daar toegang toe.



Rechts klik op de map "share" → properties → advanced sharing → permission → remove



Op je Windows 10 client toon je dan dat je toegang hebt tot deze share.



BRON:

- <https://www.manageengine.com/products/active-directory-audit/kb/how-to/how-to-setup-a-domain-controller.html>
- <https://www.youtube.com/watch?v=h3sxdUUt5a8>
- [how to give premissions to user in domain controler - Search \(bing.com\)](#)

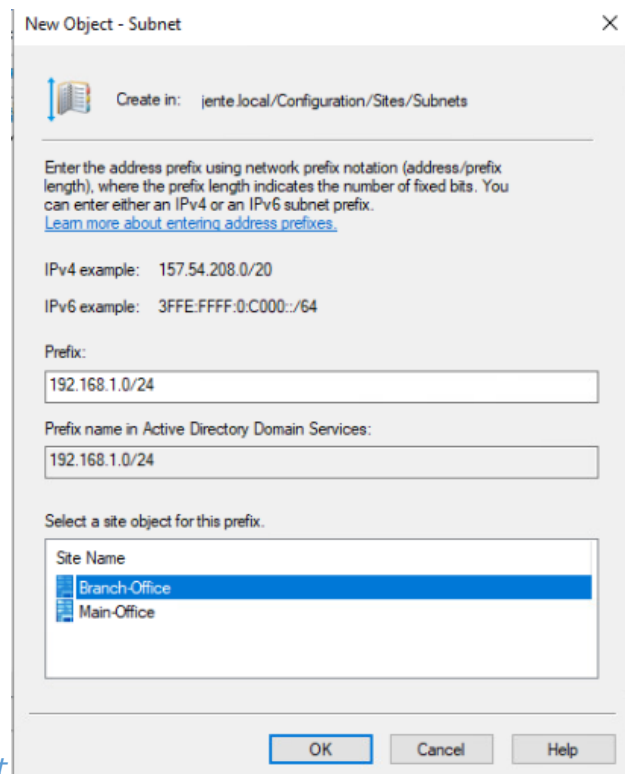
3 Sites en subnets

Maak nu in de AD sites en subnets 2 sites aan: "Main Office" en "Branch Office", en de 2 subnets voor jouw adresbereik. Associeer het eerste subnet met de "Main Office" Site, en het tweede subnet in de "Branch Office" site.

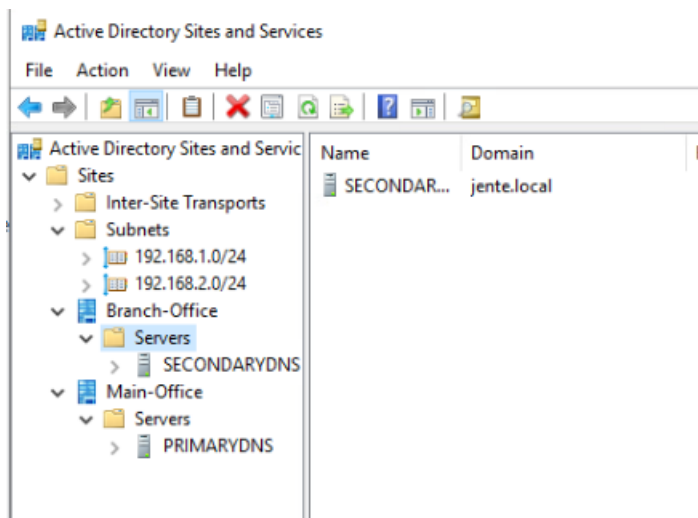
Site1 Main Office

Tools □ active directory sites and services □ eerste sites staat er by default pas deze aan naar de MainOffice

Subnet Main Office



Rechtsklik subnets □ new subnet

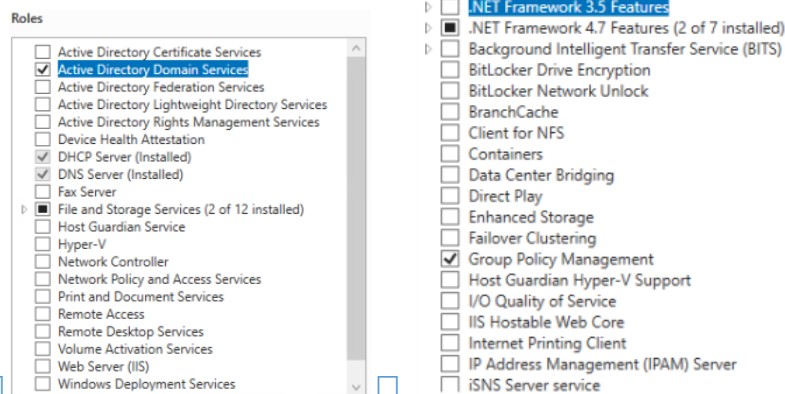


□ restart client

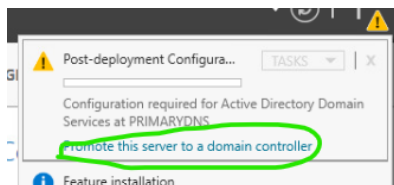
4 Tweede Domain Controller

Promoveer nu je secundaire DNS server ook tot DC van hetzelfde domein.

Server Manager □ Manage □ add roles and features □ next □ next □ next □ active directory

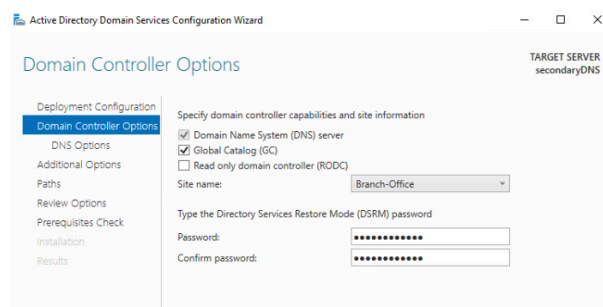


domain services □

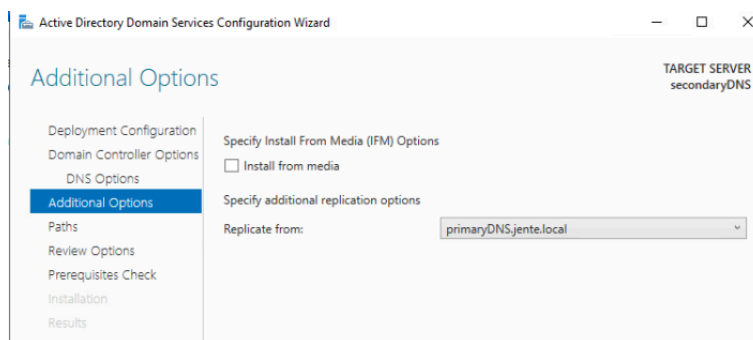


□ next □ install □ close □

□ add a domain controller to an existing domain □ vul in domain(jente.local) □ enter the credentials □ next □



□ next □



□ next □

Configure this server as an additional Active Directory domain controller for the domain "jente.local".

Site Name: Branch-Office

Additional Options:

Read-only domain controller: No

Global catalog: Yes

DNS Server: Yes

Update DNS Delegation: No

Source DC: primaryDNS.jente.local

Database folder: C:\Windows\NTDS

Log file folder: C:\Windows\NTDS

SYSVOL folder: C:\Windows\SYSVOL

The DNS Server service will be configured on this computer.

This computer will be configured to use this DNS server as its preferred DNS server.

next□install□ restart vanzelf

Toon nu aan (kan met 1 commando) dat wanneer je je aanmeldt op de client, dat dit gebeurt via de DC in dezelfde site/subnet.

echo %logonserver% (in cmd client)

5 Organisational Units

Maak nu de volgende OU's aan:

Active directory users and computers □ rechts klik

domain(jente.local) □ new □ organizational Unit □ geef in name(Main-Office) □ klik on



Main-office □ □ geef in name(Dev-team) □ add de rest van de OUs

- Main-office
 - o Dev-team
 - o IT-team
 - o Reception
- Branch-office
 - o Remote-dev-team
 - o Remote-reception

Maak een gebruikersgroep (IT-groep) aan en een gebruiker in die groep in de OU "IT team",

New Object - User

Create in: jente.local/Main-Office/IT-team/IT-group

First name: Yati

Initials:

Last name: Vansan

Full name: Yati Vansan

User login name: yati @jente.local

User login name (pre-Windows 2000): JENTE\ yati

< Back

Next >

Cancel

New Object - Group

Create in: jente.local/Main-Office/IT-team

Group name: NEW-IT-Team

Group name (pre-Windows 2000): NEW-IT-Team

Group scope

☐ Domain local

☒ Global

☐ Universal

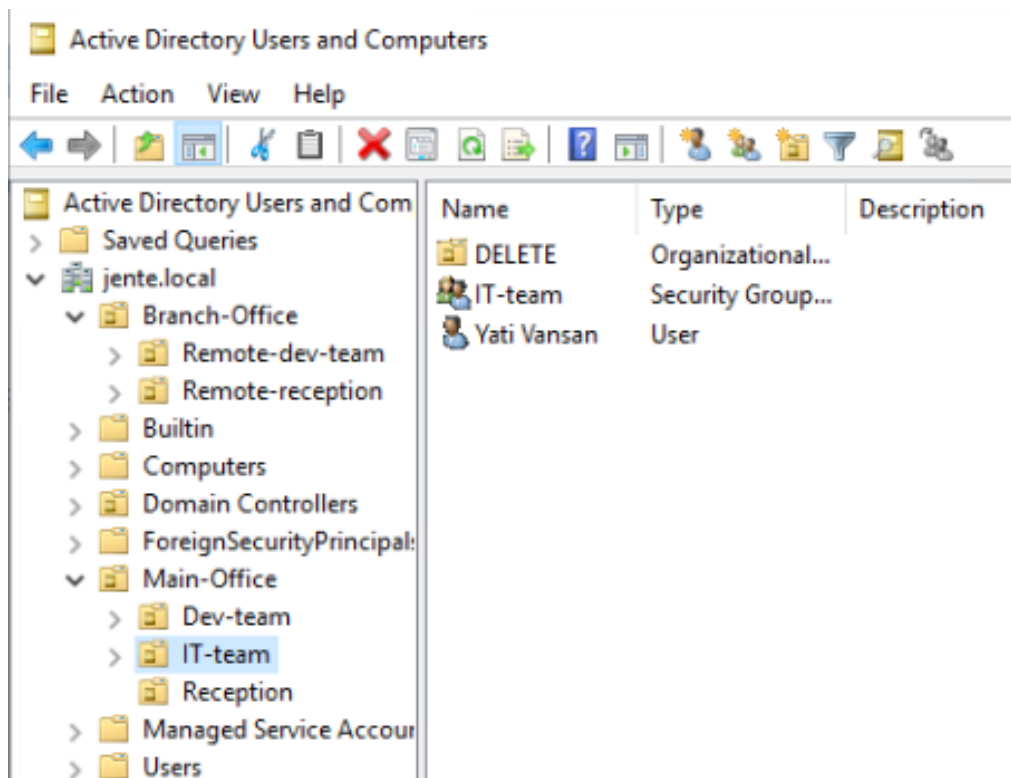
Group type

☒ Security

☐ Distribution

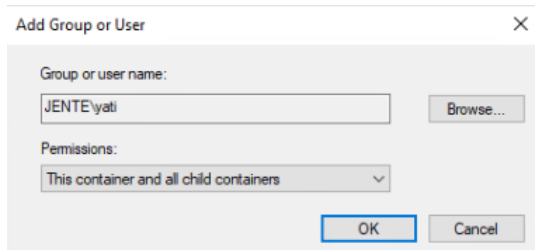
OK

Cancel

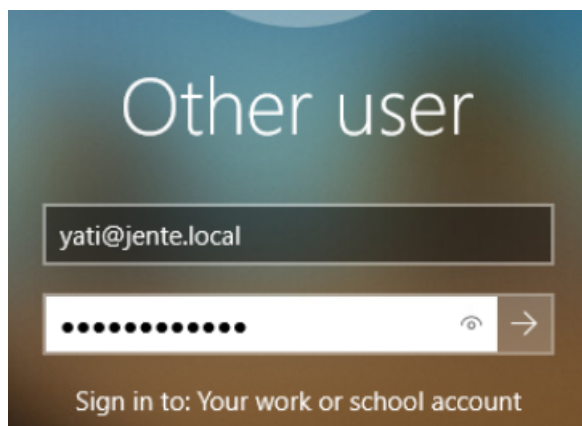


en zorg ervoor dat die, gebruikers en groepen kan beheren in de "Remote dev team" OU. Bewijs dit.

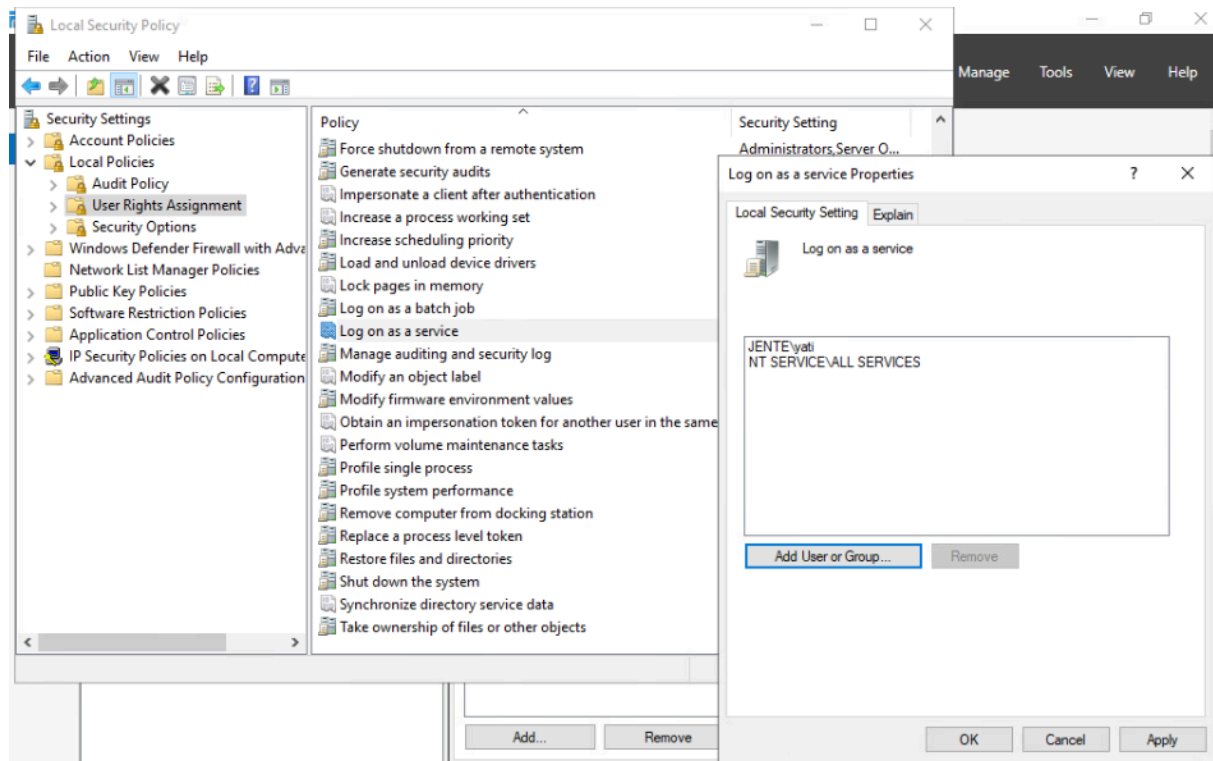
Server manager □ *tools* □ *group policy management* □ *rechtsklik(remote-def-team)* □ *add* □ *yati (checkname)* □



Op client 2:



Pas ook de logon permissie aan □



Users and computers □klik op de user en dan properties□ member off □ add server operators

Login op domain controller

Name: yati
wachtwoord(zelfde)

Delegation of Control Wizard

Users or Groups
Select one or more users or groups to whom you want to delegate control.

Select Users, Computers, or Groups

Select this object type:
Users, Groups, or Built-in security principals

From this location:
jente.local

Enter the object names to select (examples):
Yati Vansan (yati@jente.local)

Advanced... OK Cancel

< Back Next > Cancel Help

Delegation of Control Wizard

Tasks to Delegate
You can select common tasks or customize your own.

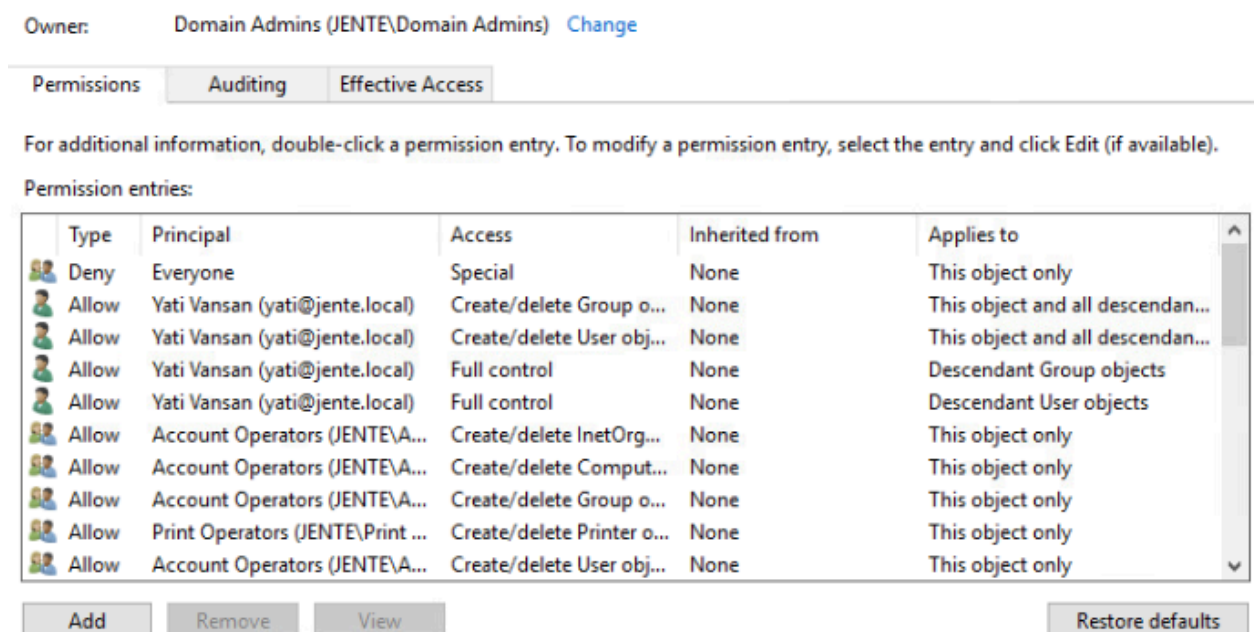
☒ Delegate the following common tasks:

- ☒ Create, delete, and manage user accounts
- ☒ Reset user passwords and force password change at next logon
- ☒ Read all user information
- ☒ Create, delete and manage groups
- ☒ Modify the membership of a group
- ☐ Manage Group Policy links
- ☐ Generate Resultant Set of Policy (Planning)

☐ Create a custom task to delegate

< Back Next > Cancel Help

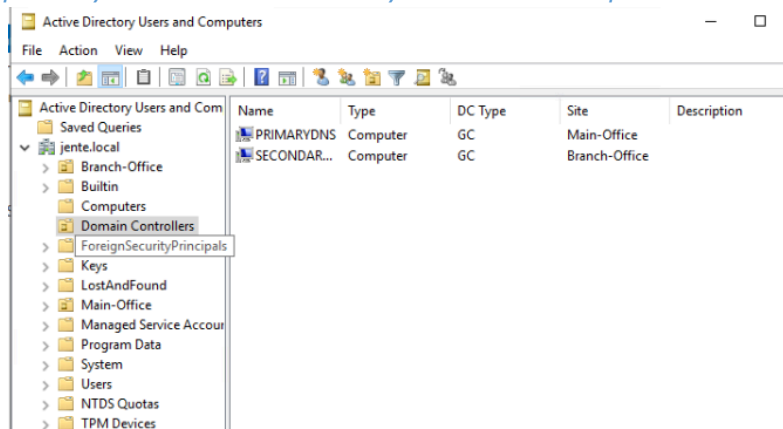
De delegatie kan je terug vinden □ rechts klik (Remote-dev-team) □ security □ advenced □



Checklist:

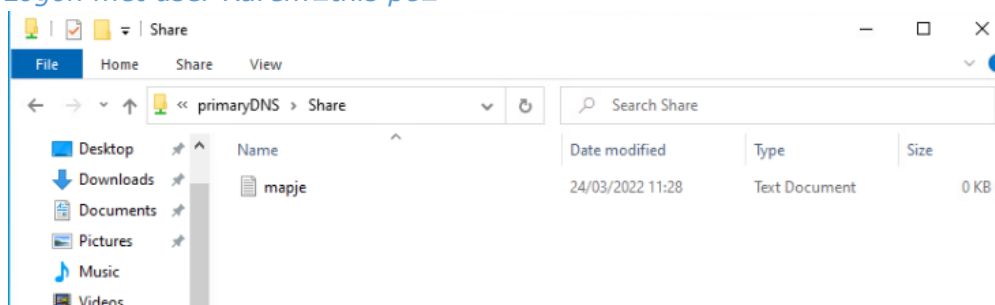
- Controleer of er 2 domeincontrollers voor het domein zijn

[primaryDNS](#) [active directory users and computers](#) [domain controllers](#)



- Controleer de beschikbaarheid van een fileshare op de client

[Logon met user Karem](#) [this pc](#)



- Controleer of subnetten en sites werken bij het aanmelden van de client

echo %logonserver%

- Juiste OU's gemaakt en delegation geconfigureerd

Active directory sites an services ☐

