

Leer de begrippen in dit hoofdstuk! Toets!
Lees de bijbehorende pagina's in net boek.

Hoofdstuk 2

Alleen boek op tafel

Active Directory

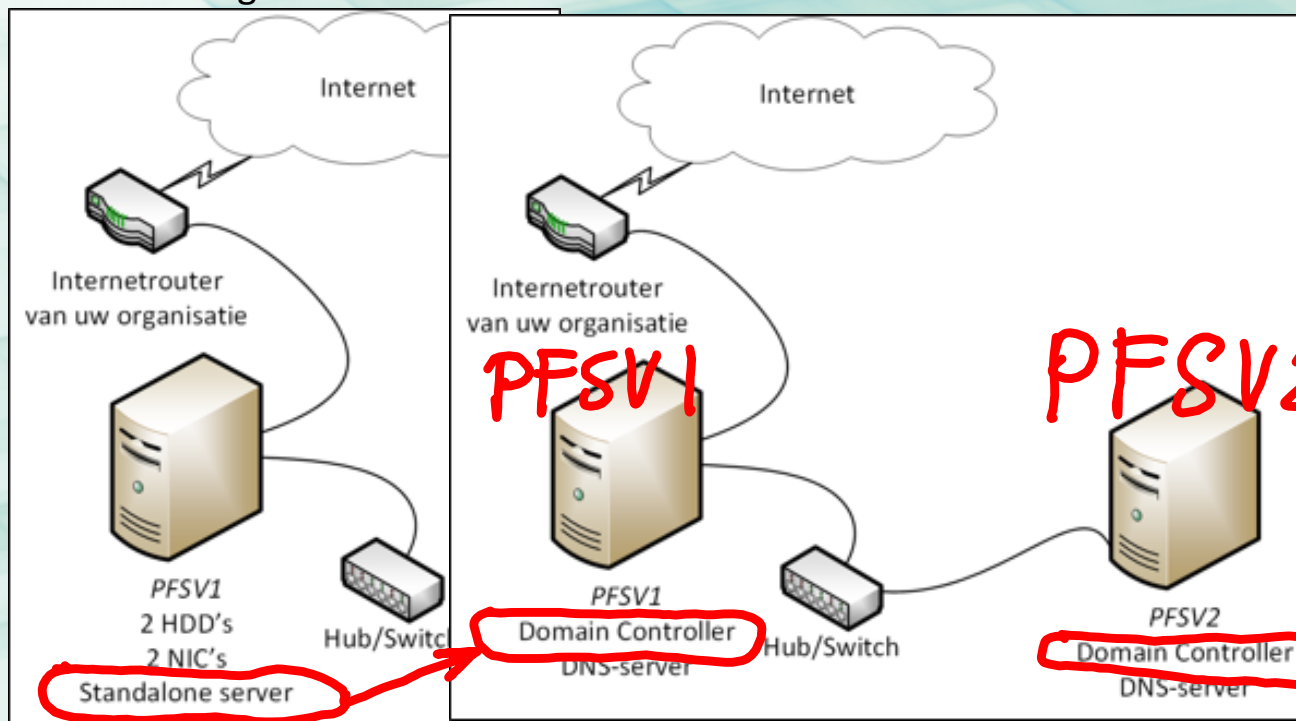
Maak eerst Practica 1.3.1 en 1.4.1

Maak daarna Practica 2.1.1 (p. 63 e.v.)

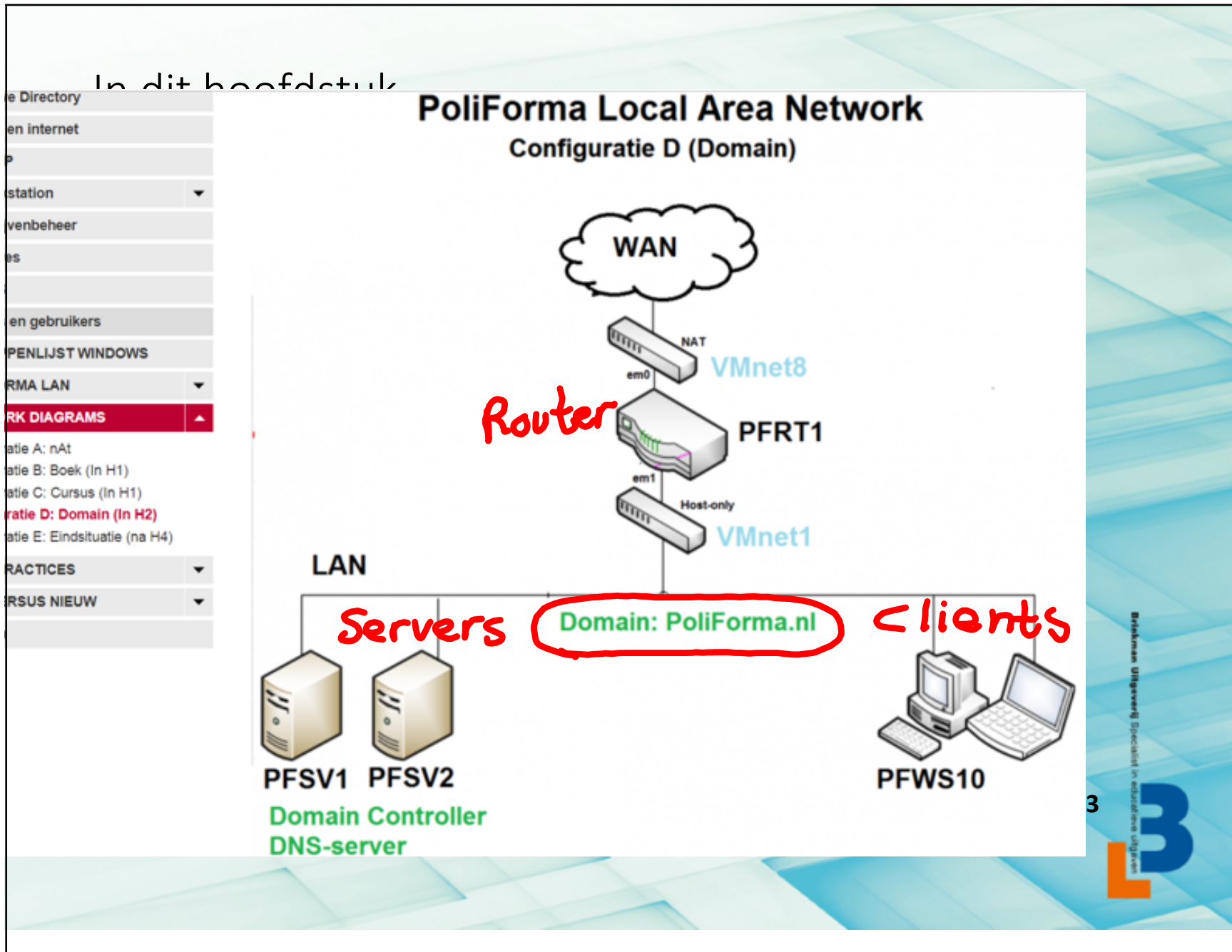
In dit hoofdstuk

- Van een peer-to-peer netwerk naar een client/server netwerk
- Kennis
- Vaardigheden

Rol : Server



FOUTTOLERANTIE



Active Directory

Security Accounts Manager

- SAM en decentraal beheer in peer-to-peer netwerken
- Active Directory en centraal beheer in client/server netwerken
- ntds.dit →
- Directories
- ~~AD-DC~~ AD DS
- DC
- Heeft absoluut DNS nodig

Rol: Active Directory
Directory Service

;) SAM → AD + DNS
database met accounts
centraal opslaan
en centraal beheer

p. 62-63

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De functionaliteit van een server

- Menselijk niveau:
 - Server roles
 - Role services
 - Features
 - **Server role** Print and Document Services
 - **Role services** Deelfunctie
 - Print Server
 - Distributed Scan Server
 - Internet Printing
 - LPD Service
 - **Feature** Print and Document Services Tools
 - (Print Management)
- Machine niveau:
 - Services

DNS



Functie
↓

ADDS

aanvullende functie

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Leer deze begrippen. Toets!

Server roles, role services en features

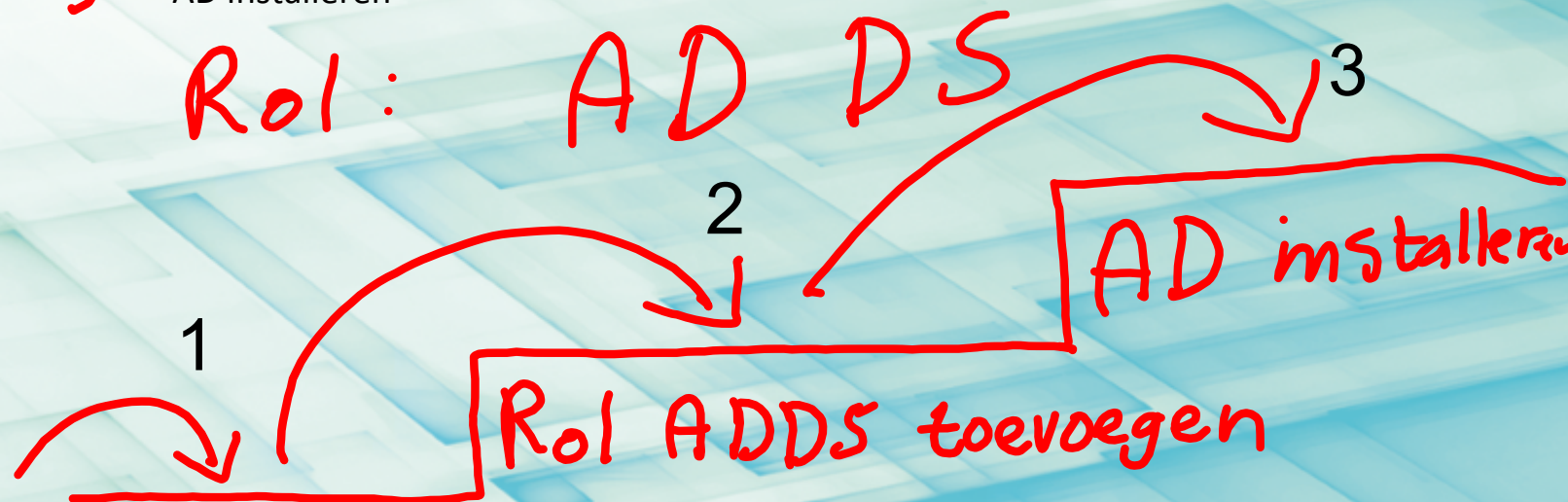
- Installeren via de **Add Roles and Features Wizard**
- Eventueel server role kiezen
- Automatisch features (beheertools) laten installeren
- Eventueel de server role configureren met role services
- Eventueel features installeren

AD DS

Wizard

De 3 stappen voor een Domain Controller: Server promoveren tot DC

- 2** • Server role Active Directory Domain Services installeren
- 3** • AD installeren



TCP/IP v4-properties

1. Pas DNS-instellingen aan

2. Add Role

3. Promoveer tot DC

p. 67-73

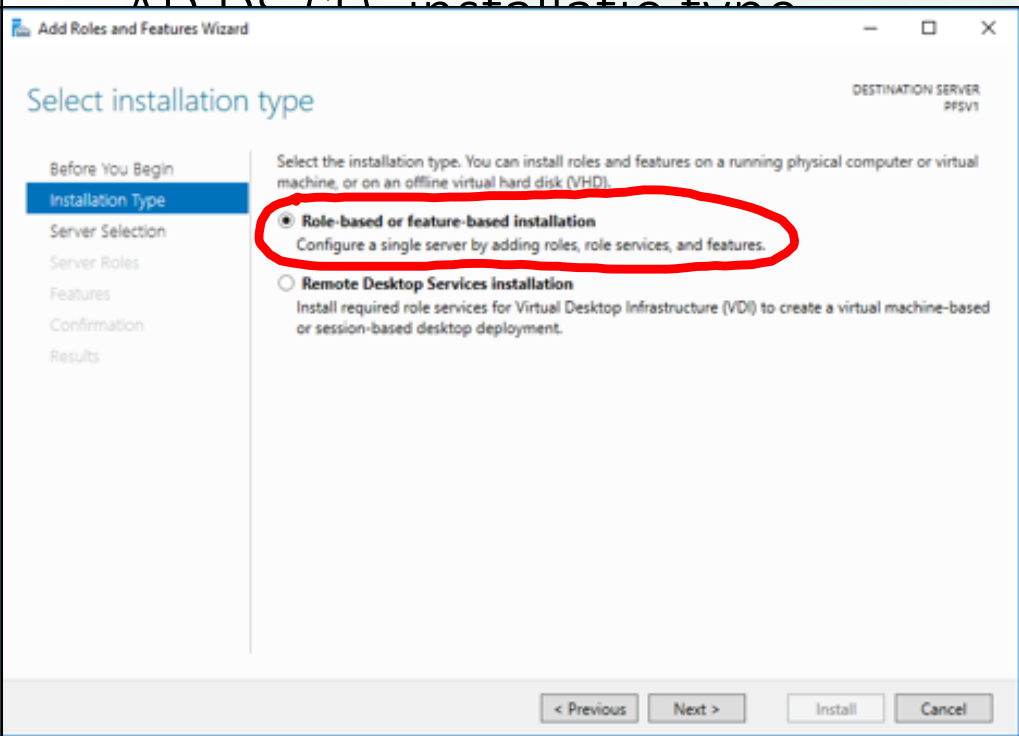
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AD DS (1) installatie type



Add Role


Gebruik p. 67 – 73 van het boek om dit te doen!

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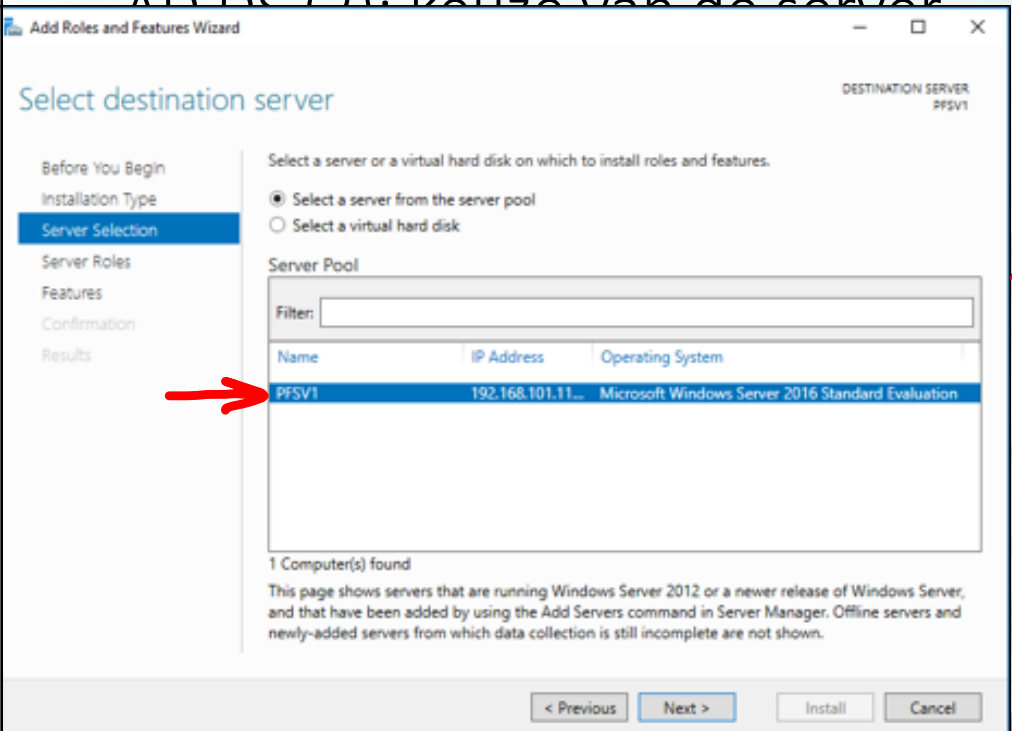
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AD DS (2) - keuze van de server




Let op:
je moet
Practicum 1.3.1
en
Practicum 1.4.1
hebben uitge-
voerd!

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AD DS (2) - keuze over de server role



AD DS!

Vink het juiste vakje aan!

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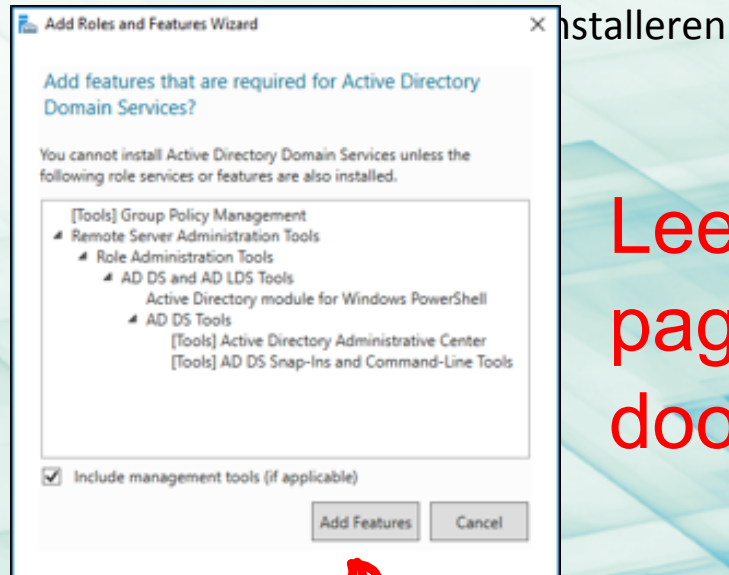
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AD DS (4); automatisch beheertools



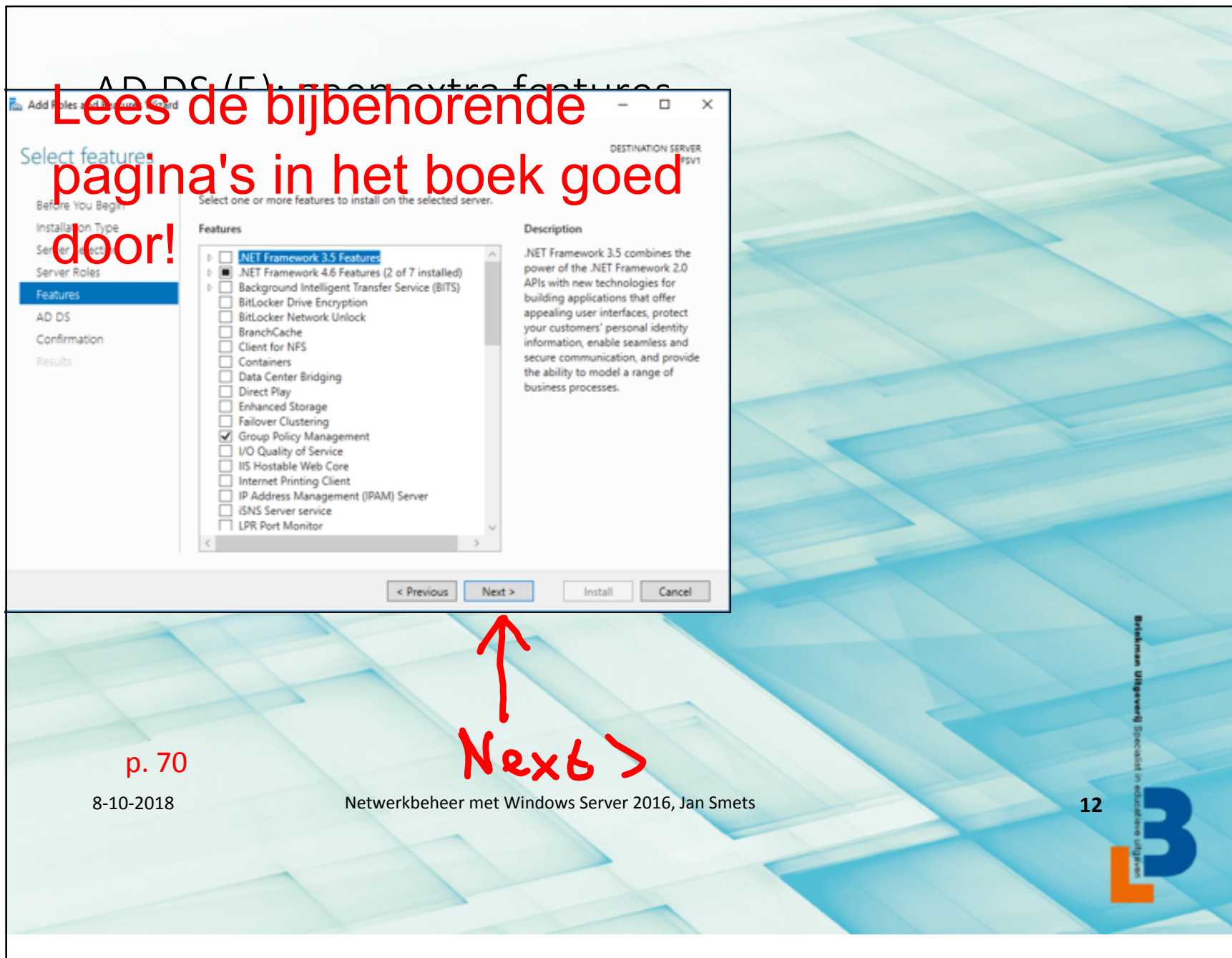
Lees de bijbehorende pagina's in het boek goed door!

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Lees de bijbehorende pagina's in het boek goed door!

↑
Next >

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AD DS (6): nimmakto kouzes

Lees de bijbehorende pagina's in het boek goed door!

DESTINATION SERVER PSV1

To install the following roles, role services, or features on selected server, click Install.

Restart the destination server automatically if required

Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.

- Active Directory Domain Services
- Group Policy Management
- Remote Server Administration Tools
 - Role Administration Tools
 - AD DS and AD LDS Tools
 - Active Directory module for Windows PowerShell
 - AD DS Tools
 - Active Directory Administrative Center
 - AD DS Snap-Ins and Command-Line Tools

Export configuration settings
Specify an alternate source path

< Previous Next > Install Cancel

↑
Install

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AD DS (7) - installatie

Add Roles and Features Wizard

Installation progress

Before You Begin

Installation Type

Server Roles

Features

AD DS

Confirmation

Results

Feature installation

Configuration required. Installation succeeded on PFSV1.

- Active Directory Domain Services
 - Additional steps are required to make this machine a domain controller.
 - Promote this server to a domain controller
- Group Policy Management
- Remote Server Administration Tools
 - Role Administration Tools
 - AD DS and AD LDS Tools
 - Active Directory module for Windows PowerShell
 - AD DS Tools
 - Active Directory Administrative Center
 - AD DS Snap-Ins and Command-Line Tools

You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.

Export configuration settings

< Previous Next > Close Cancel

Lees de bijbehorende pagina's in het boek goed door!

Klik niet op Close!

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AD installeren (1)

- Vanuit de Add Roles and Features Wizard
- Met de link:

Active Directory Domain Services
Additional steps are required to make this machine a domain controller.
[Promote this server to a domain controller](#)

Gebruik p. 73 – 86 van het boek om dit te doen!

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The screenshot shows the 'Active Directory Domain Services Configuration Wizard' window. The 'Deployment Configuration' step is active. Under 'Select the deployment operation', the radio button for 'Add a new forest' is selected. Below this, the 'Specify the domain information for this operation' section has a 'Domain:' label followed by a text input field containing 'PoliForma.nl'. A red arrow points from the 'Add a new forest' option to the domain input field. Another red arrow points from the handwritten text 'New Forest' to the same input field. The 'Change...' button is visible below the domain field. At the bottom of the wizard, there are buttons for '< Previous', 'Next >', 'Install', and 'Cancel'. The background of the slide is a blue geometric pattern.

New Forest

PoliForma.nl

Pak hier het boek er ook bij!

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AD-begrippen (1)

- Forest
- Domain
- Site
- Tree

Leer deze begrippen goed! Toets!

Domain :
alle objecten in AD die
je centraal wilt beheren
met hetzelfde beveiligingsbeleid

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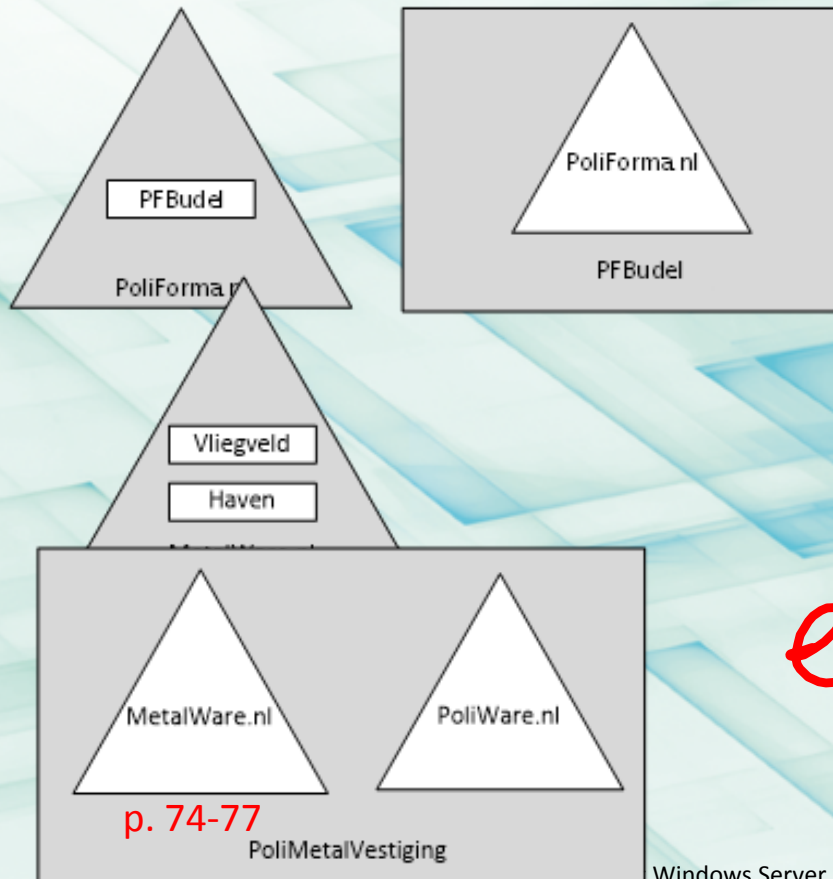
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AD-begrippen (2)

- Domains en sites



Site



locatie



eigen LAN

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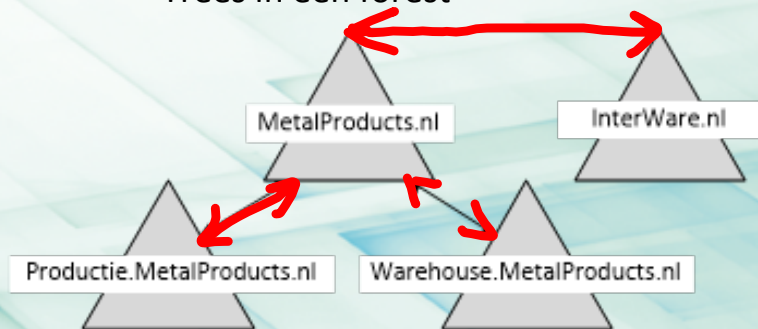
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Domain = AD = Beveiligingsbeleid

AD-begrippen (3)

- Trees in een forest



Lees de bijbehorende pagina's in het boek goed door!

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AD-installeren (2): de opties

Active Directory Domain Services Configuration Wizard

Domain Controller Options

TARGET SERVER
PFSV1

Deployment Configuration

Domain Controller Options

DNS Options

Additional Options

Paths

Review Options

Prerequisites Check

Installation

Results

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: []

password

DNS is nodig!
Global Catalog (p.79)
is ook nodig!

~ Telefoongids

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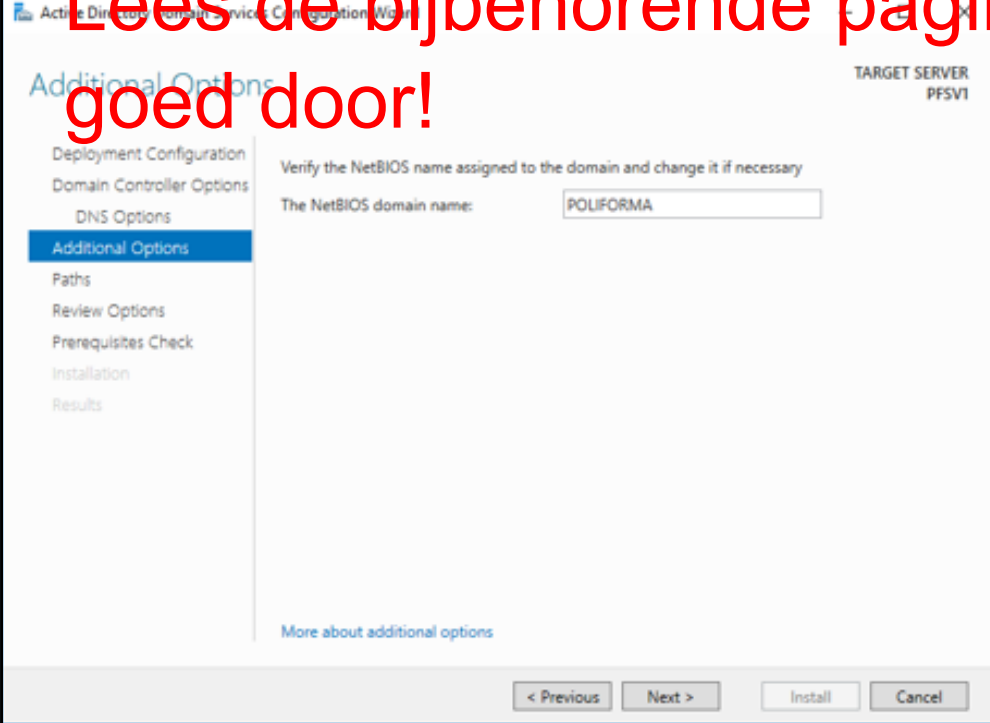
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AD installeren (1): de NetBIOS naam

Lees de bijbehorende pagina's in het boek goed door!



The screenshot shows the 'Additional Options' step of the Active Directory Installation Wizard. The 'NetBIOS domain name' is set to 'POLIFORMA'. The target server is 'PFSVI'. The wizard includes a navigation pane on the left with options like 'Deployment Configuration', 'Domain Controller Options', 'DNS Options', 'Additional Options', 'Paths', 'Review Options', 'Prerequisites Check', 'Installation', and 'Results'. At the bottom, there are buttons for '< Previous', 'Next >', 'Install', and 'Cancel'.

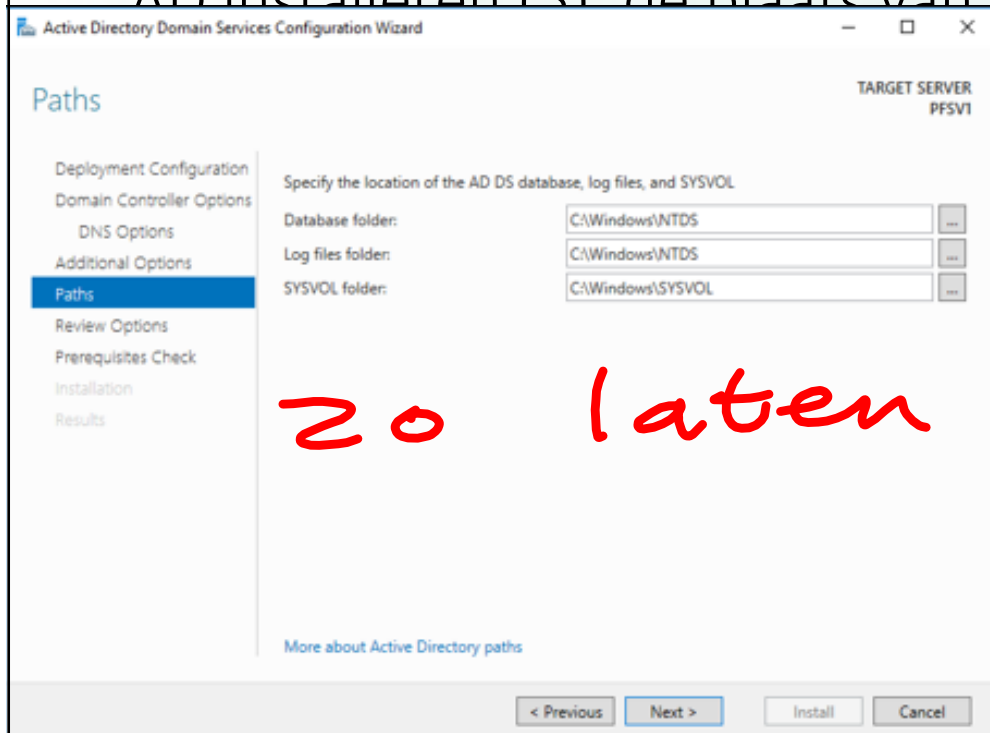
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AD installeren (5): de plaats van de bestanden



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Active Directory Domain Services Configuration Wizard

TARGET SERVER
PFSV1

Review Options

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

Review your selections:

- Configure this server as the first Active Directory domain controller in a new forest.
- The new domain name is "Poliforma.nl". This is also the name of the new forest.
- The NetBIOS name of the domain: POLIFORMA
- Forest Functional Level: Windows Server Technical Preview
- Domain Functional Level: Windows Server Technical Preview

Additional Options:

- Global catalog: Yes
- DNS Server: Yes
- Create DNS Delegation: No

These settings can be exported to a Windows PowerShell script to automate additional installations [View script](#)

[More about installation options](#)

< Previous Next > Install Cancel

Next >

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The screenshot shows a Windows login interface. At the top center is a large white user icon. Below it, the text "POLIFORMA Administrator" is displayed. A password field with the placeholder "Password" and a right-pointing arrow is positioned below the name. In the bottom-left corner, there are two user selection options: "POLIFORMA\Adm..." (highlighted in blue) and "Other user". In the bottom-right corner, there are icons for a keyboard and a mouse. The background of the login screen is a photograph of a cave opening that looks out onto a sandy beach and the ocean under a blue sky. The entire screenshot is overlaid on a light blue background with a geometric pattern of overlapping squares.

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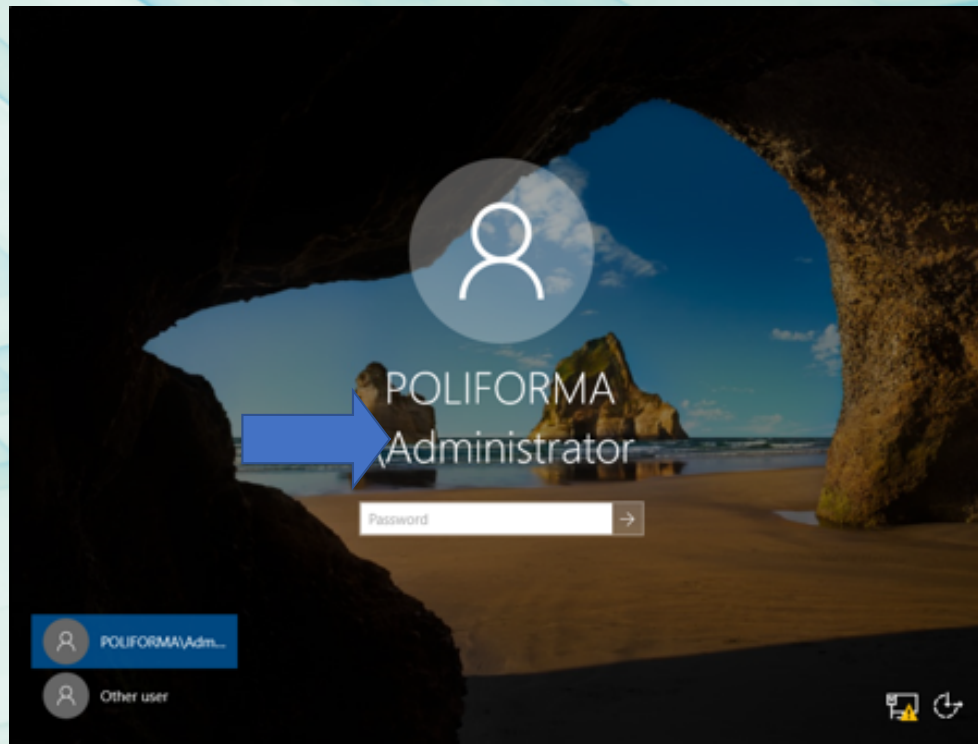
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Inloggen *Other User*

- ● POLIFORMA\Administrator
- ● Administrator@PoliForma.nl
- ~~.\LocalUser~~ *Administrator* ? X



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Probeer via "Other user" in te loggen met:

POLIFORMA\Administrator

Administrator@PoliForma.nl

.\Administrator

Wat lukt wel ... wat lukt niet?

Gedetailleerde uitwerking van de opdracht(en):

- Practicum 1.3.1 - Standalone server, p. 34-44
- Practicum 1.4.1 - Configureren, p. 45- 59

Inzenden opdracht(en):

Zend de onderstaande opdrachten in:



Opdracht 1.4.2: Testverslag



WerkboekCursist t/m practicum 1.4.1