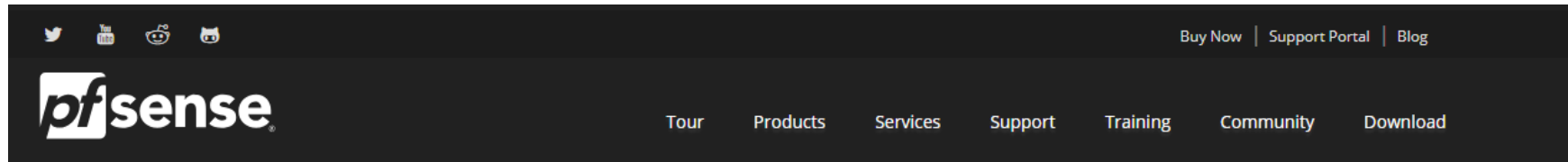
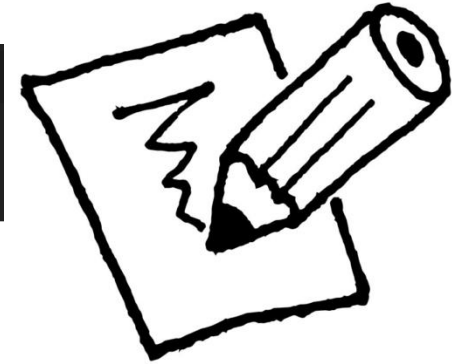


# POLIFORMA LAN


HW Hilgersom


# Vooraf: Download pfSense amd64.iso.gz



## Latest Stable Version (Community Edition)

This is the most recent stable release, and the recommended version for all installations. For upgrade information, see the [Upgrade Guide](#). For pre-configured systems, see the pfSense appliances on [Netgate](#).

 [RELEASE NOTES](#)

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### Select Image To Download

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Architecture:  ⓘ

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# Vooraf: Download pfSense amd64.iso.gz

## Index of /mirror/downloads/

<a href="#">old/</a>	29-Mar-2018 17:50	-
<a href="#">old/</a>		
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<a href="#">pfSense-CE-2.3.5-RELEASE-2g-amd64-nanobsd-vga.i...</a>	01-Nov-2017 14:36	129
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<a href="#">pfSense-CE-2.3.5-RELEASE-4g-amd64-nanobsd-vga.i...</a>	01-Nov-2017 14:36	129
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<a href="#">pfSense-CE-2.4.3-RELEASE-amd64.iso.gz.sha256</a>	29-Mar-2018 12:59	114
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<a href="#">pfSense-CE-memstick-serial-2.4.3-RELEASE-amd64...</a>	29-Mar-2018 12:59	130



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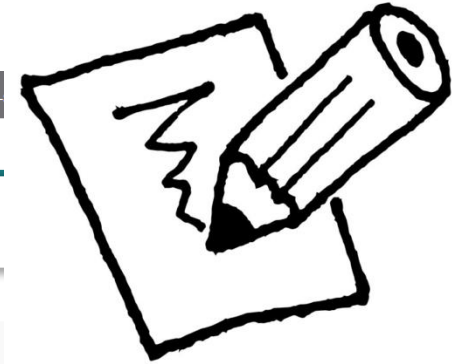


All

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# Vooraf: Try VMWare Workstation Pro



The screenshot shows the VMware website's product page for Workstation Pro 14. The page features a dark grey header with the VMware logo and navigation links (US, Login, Training, Community, Store). A breadcrumb trail indicates the path: Products > Workstation Pro > Try VMware Workstation Pro. The main content area has a large blue and white graphic with the text 'VMWARE 14 WORKSTATION PRO™'. To the right, there is a text block describing the product as the industry standard for running multiple operating systems on a single PC, highlighting improvements in virtual network simulation and security features. Below this, two buttons offer 'Download Now' for Windows and Linux versions. The footer contains links for Contact Sales, Get Support, About VMware, Careers, and Thought Leadership.

vmware®

US Login Training Community Store

Products > Workstation Pro > Try VMware Workstation Pro

## Try VMware Workstation Pro

# 14

VMWARE WORKSTATION PRO™

### VMware Workstation Pro 14

VMware Workstation Pro is the industry standard for running multiple operating systems on a single Linux or Windows PC. Workstation 14 Pro improves on the leading desktop hypervisor with VMware Virtual Hardware Version 14 features, including: virtual network simulation, updated support for the latest Windows and Linux operating systems, and new virtualization-based security features.

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# WINDOWS 10

"windows"

Windows 10 Education, Version 1803 (Updated March 2018) ▲



For this multi-edition Consumer media, use a product key specific to the edition in the list you want to activate.

Kies een taal:

Engels

Windows 10 Education, Version 1803 (Updated March 2018) 32/64-bit (English) - Microsoft Imagine

Beschikbaar voor...

Gratis

Toevoegen aan winkelwagen

Windows 10 Education, Version 1803 (Updated March 2018) 32/64-bit (English-United Kingdom) - Microsoft Imagine

Beschikbaar voor...

Gratis

Toevoegen aan winkelwagen

Windows 10 Education N, Version 1803 (Updated March 2018) ▼

Windows 10 (Multiple Editions), Version 1803 (Updated March 2018) ▼

Windows 10 N (Multiple Editions), Version 1803 (Updated March 2018) ▼

Windows 8.1 Professional ▼

# WINDOWS 10

Windows 10 N (Multiple Editions), Version 1803 (Updated March 2018) ▲



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Windows 10 N (Multiple Editions), Version 1803 (Updated March 2018) 32/64-bit (English-United  
Kin - Microsoft Imagine

Beschikbaar voor...

Gratis

 Toevoegen aan winkelwagen

# WINDOWS 10

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**Windows 10 Education 32/64-bit (English)**

Microsoft Imagine - Windows 10 Education 64-bit (English)

Downloaden



Grootte: 3 GB

Microsoft Imagine - Windows 10 Education 32-bit (English)

Downloaden

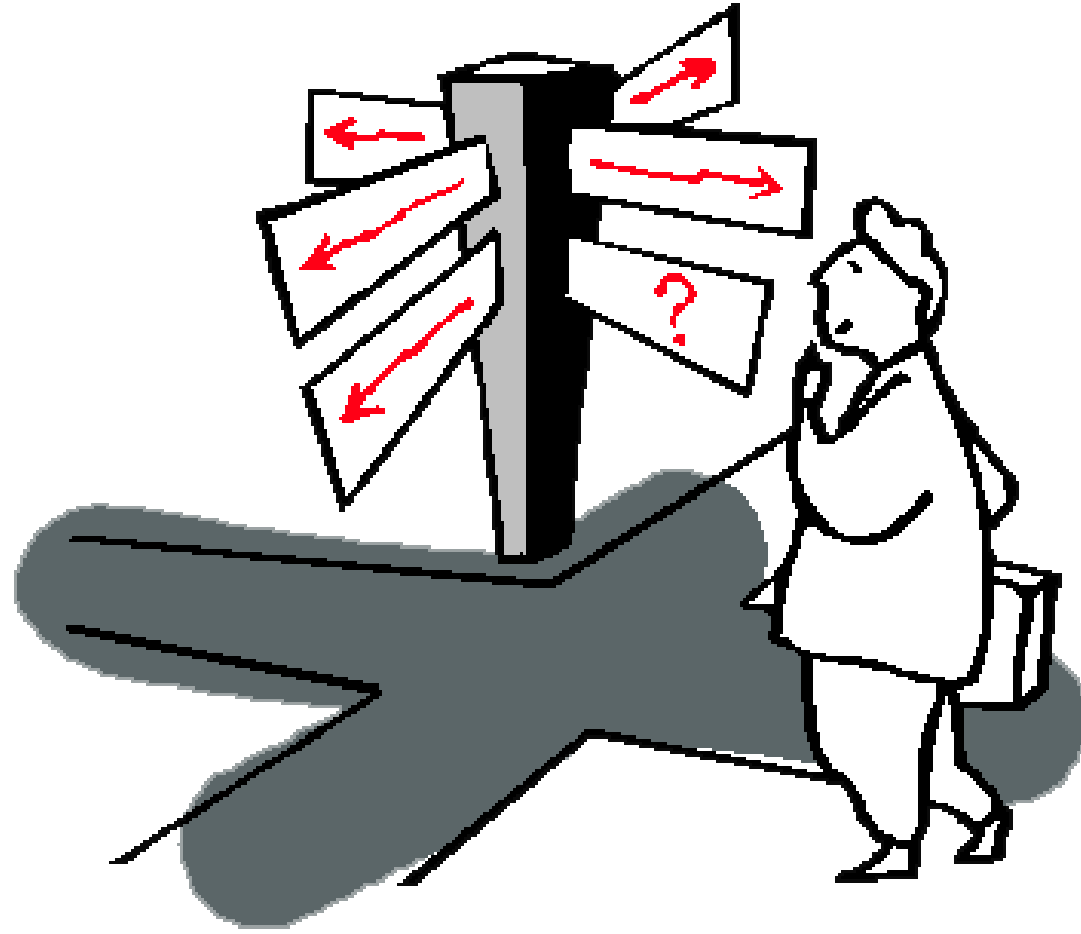


Grootte: 2 GB



# PROGRAMMA VOOR VANDAAG

1. Absentie
2. Herhaling
  1. Windows History
  2. DEFINITIES
  3. DOCUMENTS en DOWNLOADS
  4. CLEAN DESK POLICY
  5. LESMATERIAAL
3. **PoliForma Local Area Network**



	ma 3-9	di 4-9	wo 5-9	do 6-9	vr 7-9
07:00					
	1				
08:00	2				
	3				
09:00	4			PROJ 08:30 - 10:00 2.070MUN HILGHW 6IBb4TIC 6NBc4TIC	PROJ 09:00 - 10:30 2.055MUN HILGHW 6IBb4TIC 6NBc4TIC
	5				
10:00	6				
	7				
11:00	8			PRG 10:30 - 12:30 2.075MUN HILGHW 8NBd4TIC	WIN 11:30 - 12:30 2.070MUN HILGHW 8IBa4TIC
	9				
12:00	10				
	11				
13:00	12			WIN 13:00 - 14:00 2.070MUN HILGHW 8IBb4TIC	PROJ 13:00 - 14:30 2.070MUN HILGHW 6IBa4TIC
	13				
14:00	14				
	15				
15:00	16			Vergaderingen en overleg 15:00 - 17:00 2.100MUN KNAAMG NORDJ PANMC ESVDR RABEWA OKKEA WERKH MASTH THOMJD MOLEKR	
	17				
16:00	18				
	19				

# Windows History



Windows 1 1985    Windows 3.1 1992    Windows 95 1995    Windows XP 2001    Windows Vista 2006    Windows 7 2009    Windows 8 2012    Windows 10 2015

1985    1991  
MSDOS    Linux

2001  
9/11

2009

2015



# Windows History: MS-DOS

```
MS-DOS version 0.07  
Copyright 2014 mapo  
Command v. 1.00
```

```
Current date is 2014-04-15  
Welcome in MS-DOS Space vs Backspace
```

```
C:\>_
```

```
[ START GAME ]
```

```
[ RATE GAME ]
```

# *MAPPEN* STRUCTUUR



1. OneDrive

2. Documenten

3. Downloads

# MAPPEN STRUCTUUR: Websitemap

OneDrive

Deze pc > DATA (D:) > wamp > www > websitemap

	Naam	Gewijzigd op	Type	Grootte
★ Favorieten				
OneDrive - Noorderpoort				
000 - Algemeen	dag	10-7-2018 11:41	Bestandsmap	
100 - Begeleiding	images	30-8-2018 14:12	Bestandsmap	
200 - Leermiddelen	jaar	10-7-2018 11:41	Bestandsmap	
300 - Lesmateriaal	kalender	10-7-2018 11:41	Bestandsmap	
400 - Onderwijsorganisatie	maand	10-7-2018 11:41	Bestandsmap	
500 - Interne samenwerking	projectmap	10-7-2018 15:16	Bestandsmap	
600 - Externe samenwerking	websitemap	5-9-2018 09:38	Bestandsmap	
700 - Professionalisering	HelloWorld.html	30-8-2018 11:53	HTML-document	1 kB
Brecht deelt met Team ICT-opleidingen	ik.html	10-7-2018 14:15	HTML-document	1 kB
E-mailbijlagen	index.html	10-7-2018 14:50	HTML-document	1 kB
Uitzoeken	mijnfavorietefilm.html	10-7-2018 13:53	HTML-document	5 kB
	mijnfavorietefoto.html	30-8-2018 14:15	HTML-document	1 kB
	Stramien.html	5-7-2018 12:33	HTML-document	1 kB

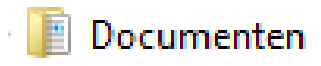
# MAPPEN STRUCTUUR: 132 Windows

OneDrive

The screenshot shows a Windows File Explorer window titled 'ELO84.1.132. OS - Windows'. The address bar displays the path: 'OneDrive - Noorderpoort > 300 - Lesmateriaal > ELO84.1.132. OS - Windows'. The left sidebar shows a tree view of folders under 'OneDrive - Noorderpoort', with '300 - Lesmateriaal' selected. The main pane shows a list of files and folders:

Naam	Gewijzigd op	Type	Grootte
@rchief	9-9-2018 12:21	Bestandsmap	
Afbeeldingen	9-9-2018 12:20	Bestandsmap	
PDF-documenten	9-9-2018 12:20	Bestandsmap	
Begrippenlijst.docx	9-9-2018 12:22	Microsoft Word D...	0 kB
PFRT1 - logboek.pptx	8-9-2018 11:13	Microsoft PowerP...	1.366 kB
PoliForma LAN.pptx	9-9-2018 10:12	Microsoft PowerP...	4.196 kB
UBSV1 - logboek.pptx	8-9-2018 20:57	Microsoft PowerP...	1.268 kB
Windows Introduction.pptx	7-9-2018 11:25	Microsoft PowerP...	7.091 kB

# MAPPEN STRUCTUUR: Virtual Machines

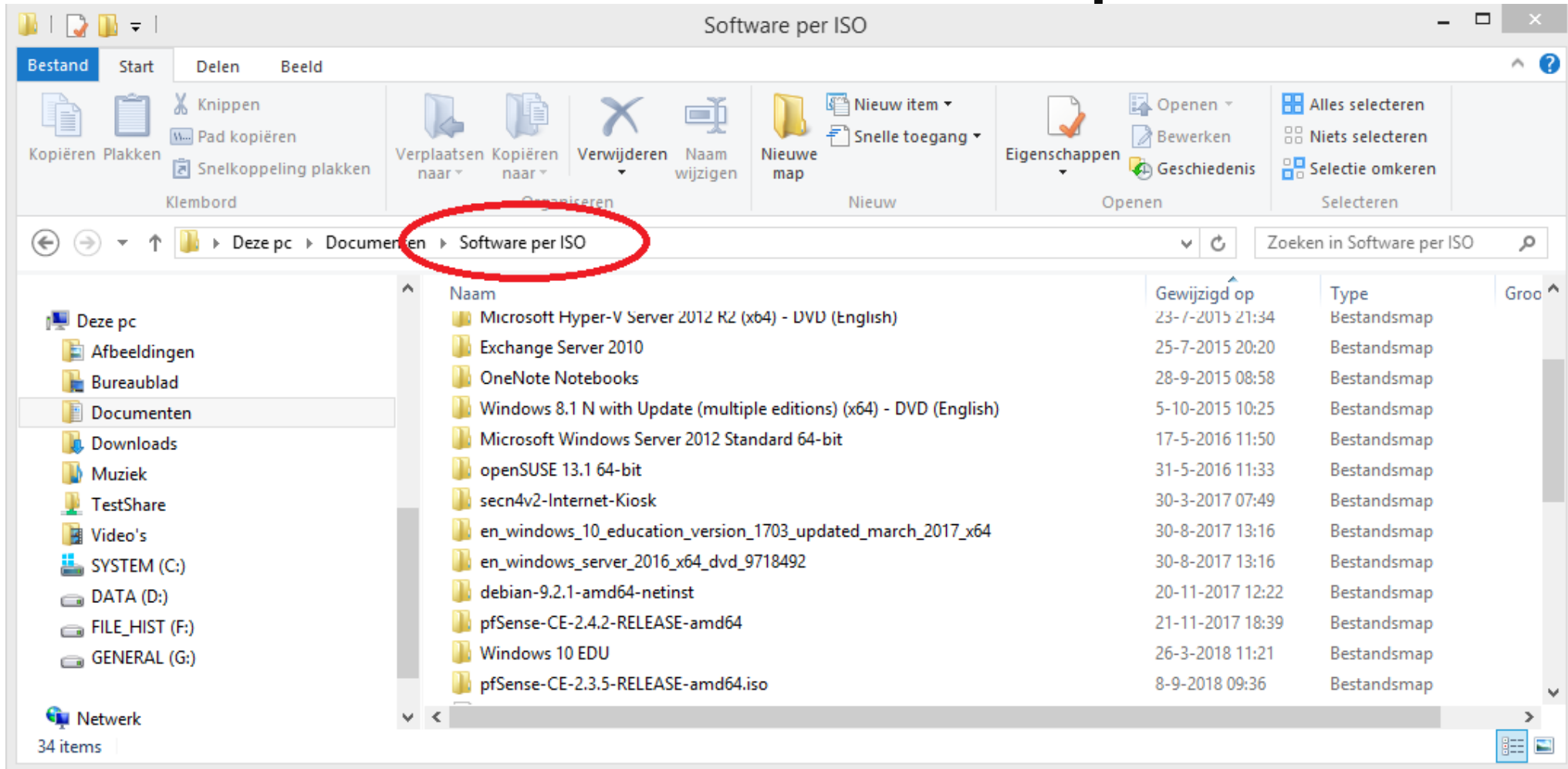


The screenshot shows a Windows File Explorer window with the title bar 'Virtual Machines'. The ribbon includes 'Bestand', 'Start', 'Delen', and 'Beeld'. The address bar shows the path 'Deze pc > Documenten > Virtual Machines', with 'Virtual Machines' circled in black. The main pane displays a list of folders with columns for 'Naam', 'Gewijzigd op', 'Type', and 'Grootte'. The left sidebar shows 'Favorieten' and 'OneDrive - Noorderpoort' with various sub-folders. The status bar at the bottom indicates '33 items'.

Naam	Gewijzigd op	Type	Grootte
DMRTR	20-11-2017 14:12	Bestandsmap	
DMSV1	26-3-2018 11:04	Bestandsmap	
DMSV2	20-11-2017 14:08	Bestandsmap	
DMSV3	7-3-2017 13:03	Bestandsmap	
DMWS1	20-11-2017 14:10	Bestandsmap	
HV3	4-9-2018 14:09	Bestandsmap	
HV4	4-9-2018 14:09	Bestandsmap	
Hyper-V (unsupported)	14-2-2016 13:32	Bestandsmap	
MZOF3	13-6-2017 15:30	Bestandsmap	
MZWS81	3-12-2015 20:02	Bestandsmap	
MZWS83	13-6-2017 16:10	Bestandsmap	
PFHV3	21-11-2017 13:50	Bestandsmap	
PFHV3C	21-11-2017 15:23	Bestandsmap	



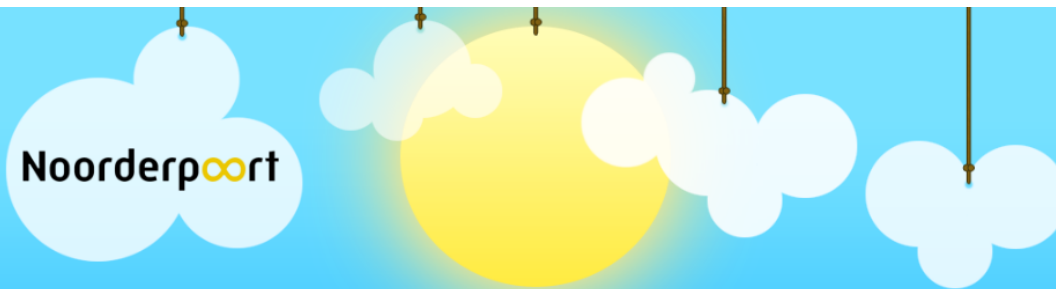
# MAPPEN STRUCTUUR: Software per ISO Downloads



The screenshot shows a Windows File Explorer window titled "Software per ISO". The address bar shows the path: "Deze pc > Documenten > Software per ISO". The left sidebar shows the "Documenten" folder selected. The main pane displays a list of folders, each representing an ISO image, with columns for "Naam", "Gewijzigd op", and "Type".

Naam	Gewijzigd op	Type
Microsoft Hyper-V Server 2012 R2 (x64) - DVD (English)	23-7-2015 21:34	Bestandsmap
Exchange Server 2010	25-7-2015 20:20	Bestandsmap
OneNote Notebooks	28-9-2015 08:58	Bestandsmap
Windows 8.1 N with Update (multiple editions) (x64) - DVD (English)	5-10-2015 10:25	Bestandsmap
Microsoft Windows Server 2012 Standard 64-bit	17-5-2016 11:50	Bestandsmap
openSUSE 13.1 64-bit	31-5-2016 11:33	Bestandsmap
secn4v2-Internet-Kiosk	30-3-2017 07:49	Bestandsmap
en_windows_10_education_version_1703_updated_march_2017_x64	30-8-2017 13:16	Bestandsmap
en_windows_server_2016_x64_dvd_9718492	30-8-2017 13:16	Bestandsmap
debian-9.2.1-amd64-netinst	20-11-2017 12:22	Bestandsmap
pfSense-CE-2.4.2-RELEASE-amd64	21-11-2017 18:39	Bestandsmap
Windows 10 EDU	26-3-2018 11:21	Bestandsmap
pfSense-CE-2.3.5-RELEASE-amd64.iso	8-9-2018 09:36	Bestandsmap

# Schoolvoorict.nl



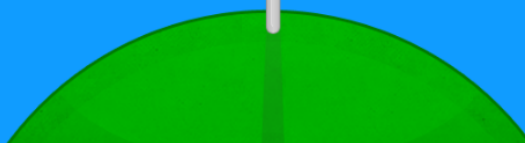
Noorderpoort

Opleiding 2018-2019

Opleiding 2017-2018

Opleiding 2016-2017

Opleiding 2015-2016



# LESMATERIAAL EN STUDIEPUNTEN

## Algemeen

In deze les(sen):

- Inrichting en beheer op een LAN

✚	Voor deze les(sen) heb je nodig:	Edit ▾	☑
	<ul style="list-style-type: none"><li>• Laptop</li><li>• Notitiemateriaal</li></ul>		
✚	 <a href="#">Microsoft - My School's WebStore</a> 	Edit ▾	☑
✚	 <a href="#">Wikiwijs - DEEL 1 Inrichting en beheer van een LAN</a> 	Edit ▾	☑
✚	 <a href="#">BOEK en LEERWAAIER 2016</a> 	Edit ▾	☑
✚	 <a href="#">WerkboekCursist</a> 	Edit ▾	☑
✚	 <a href="#">MCSA 2012R2 EBooks</a> 	Edit ▾	☑
✚		Edit ▾	☑

## Studiepunten

Gedetailleerde uitwerking van de (4) studiepunten:

1. TOETS 1 - par. 0.1 t/m 0.5, 1.0 t/m 1.4, 2.0 t/m 2.2 en 5.0 t/m 5.2
2. Ingevuld Werkboek
3. TOETS 2 - par. 6.0 t/m 6.4, 7.0 t/m 7.2 en 9.0 t/m 9.2 + Werkboek
4. TOETS 3 - par. 3.0 t/m 3.2, 4.0 t/m 4.1 en 8.0 t/m 8.3 + Werkboek

# VIRTUALISATIE



Stroomgebruiker

**VM** (PFRT1)

**VM** (UBSV1)

**VM** (PFSV1)

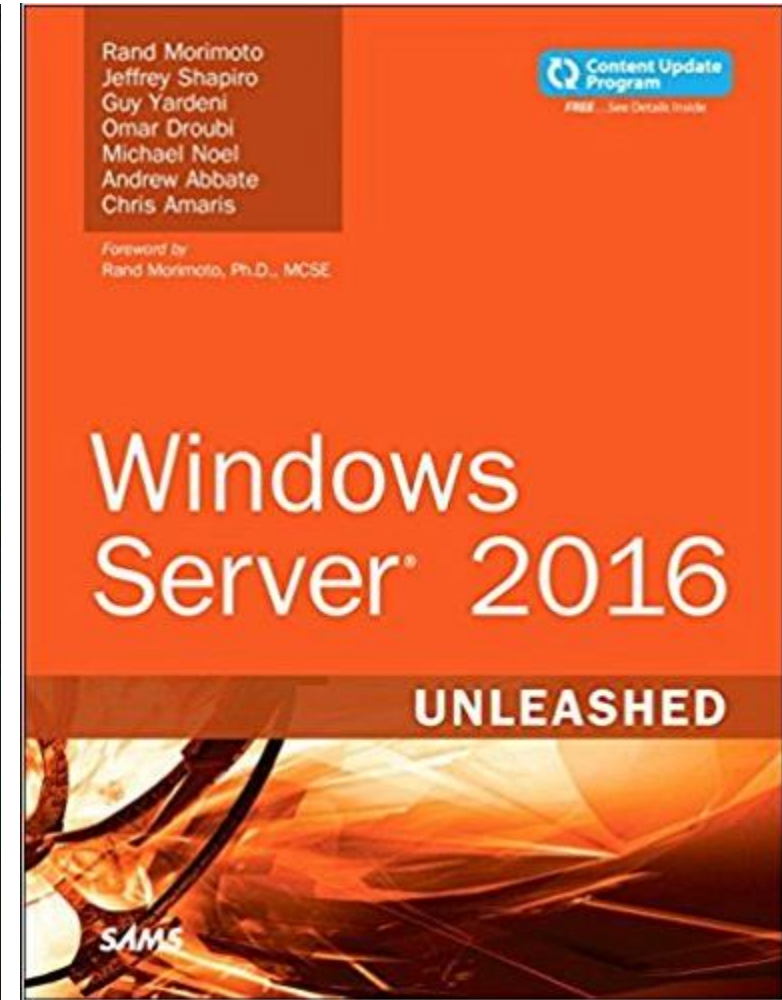
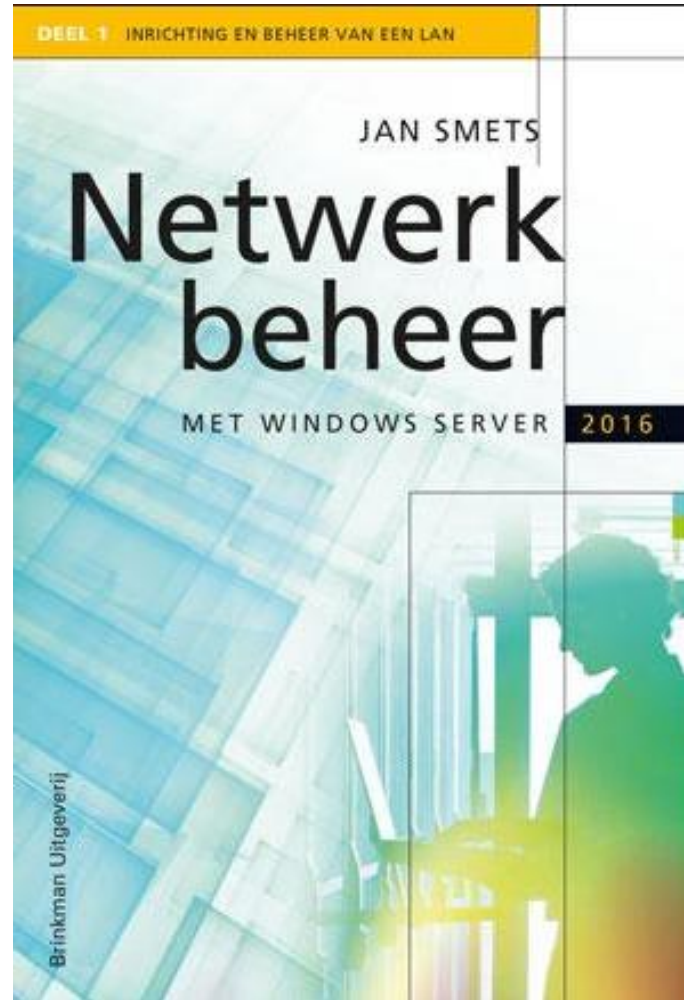
**VM** (PFWS10)

Virtualisatie Software (VMWare Workstation 14 PRO)

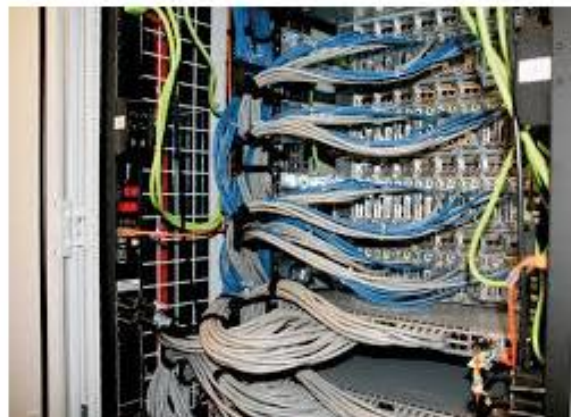
**OS** (Windows 10)

**HW** (Laptop)

# BOEKEN



# Een gesimuleerd bedrijf: PoliForma BV



# De opbouw van het netwerk voor PoliForma BV

1. Ad hoc

2. Gestructureerd

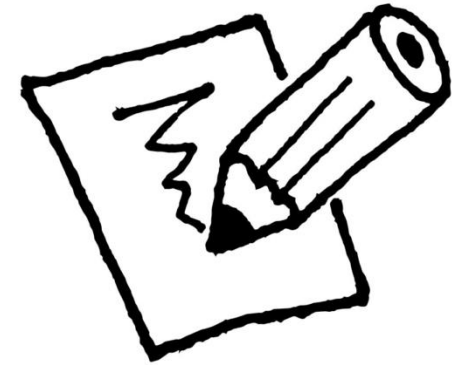


# Uitgelegd: ad hoc vs. gestructureerd



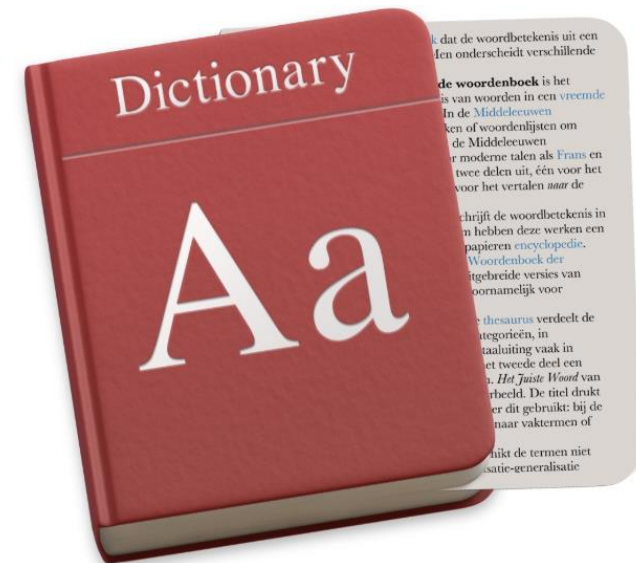


OPDRACHT: DEFINITIES ZIJN BELANGRIJK



# Besturingssysteem (Operating System)

Server



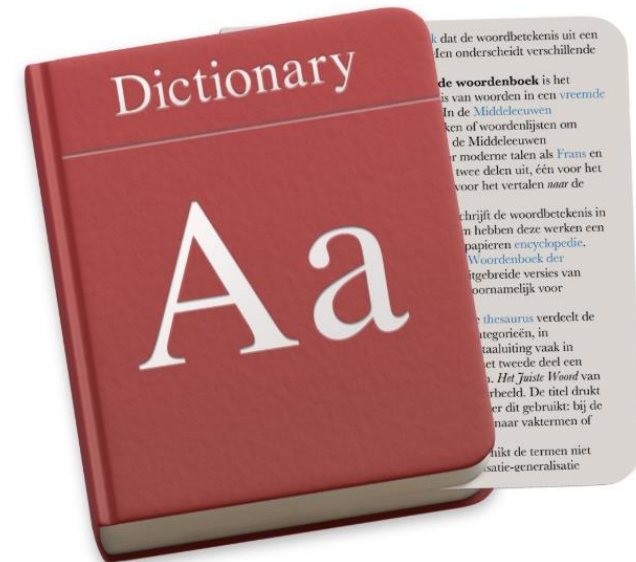
# OPDRACHT: DEFINITIES ZIJN BELANGRIJK

LAN

WAN

SWITCH

ROUTER



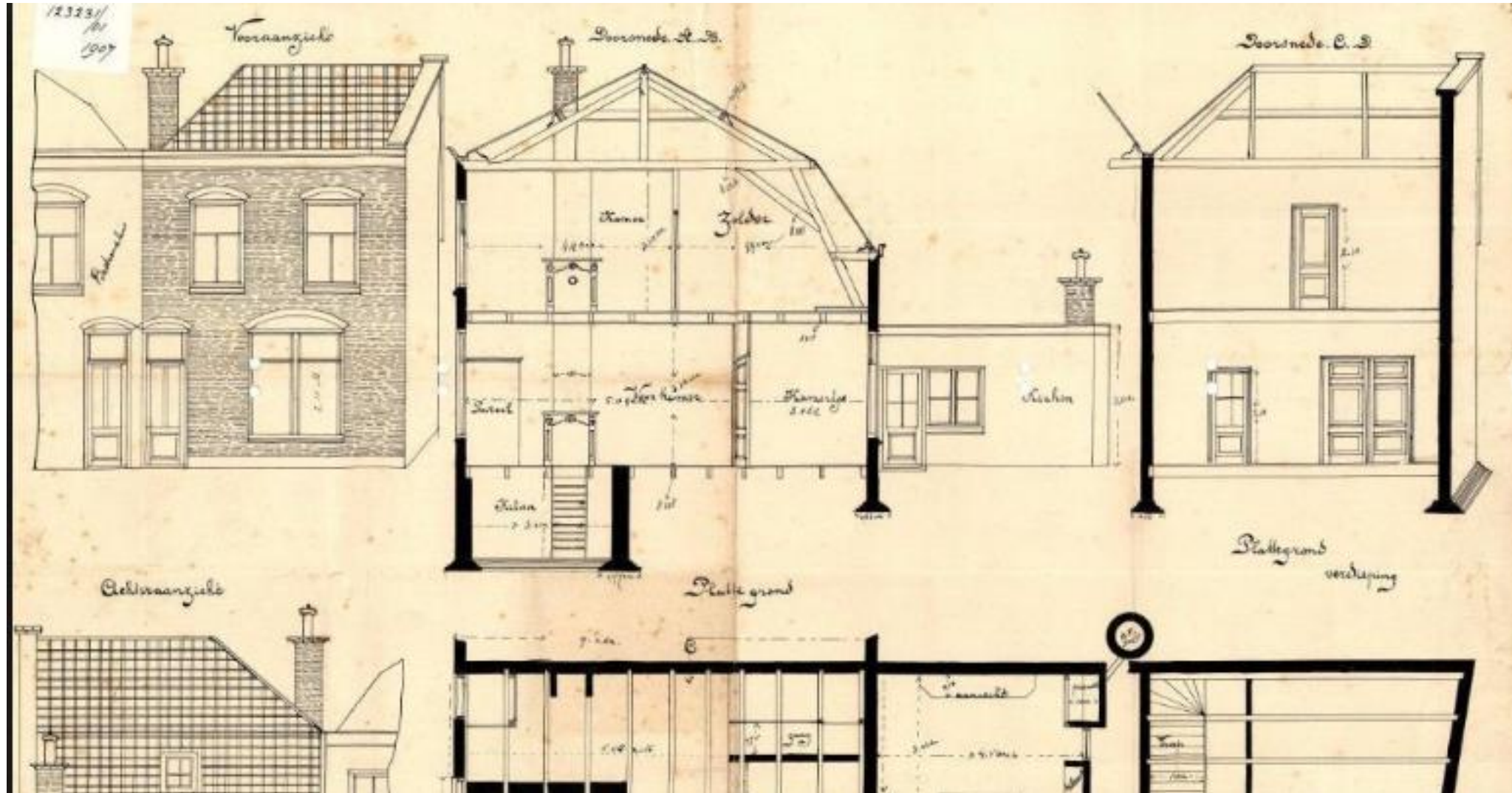


## LAN vs. WAN

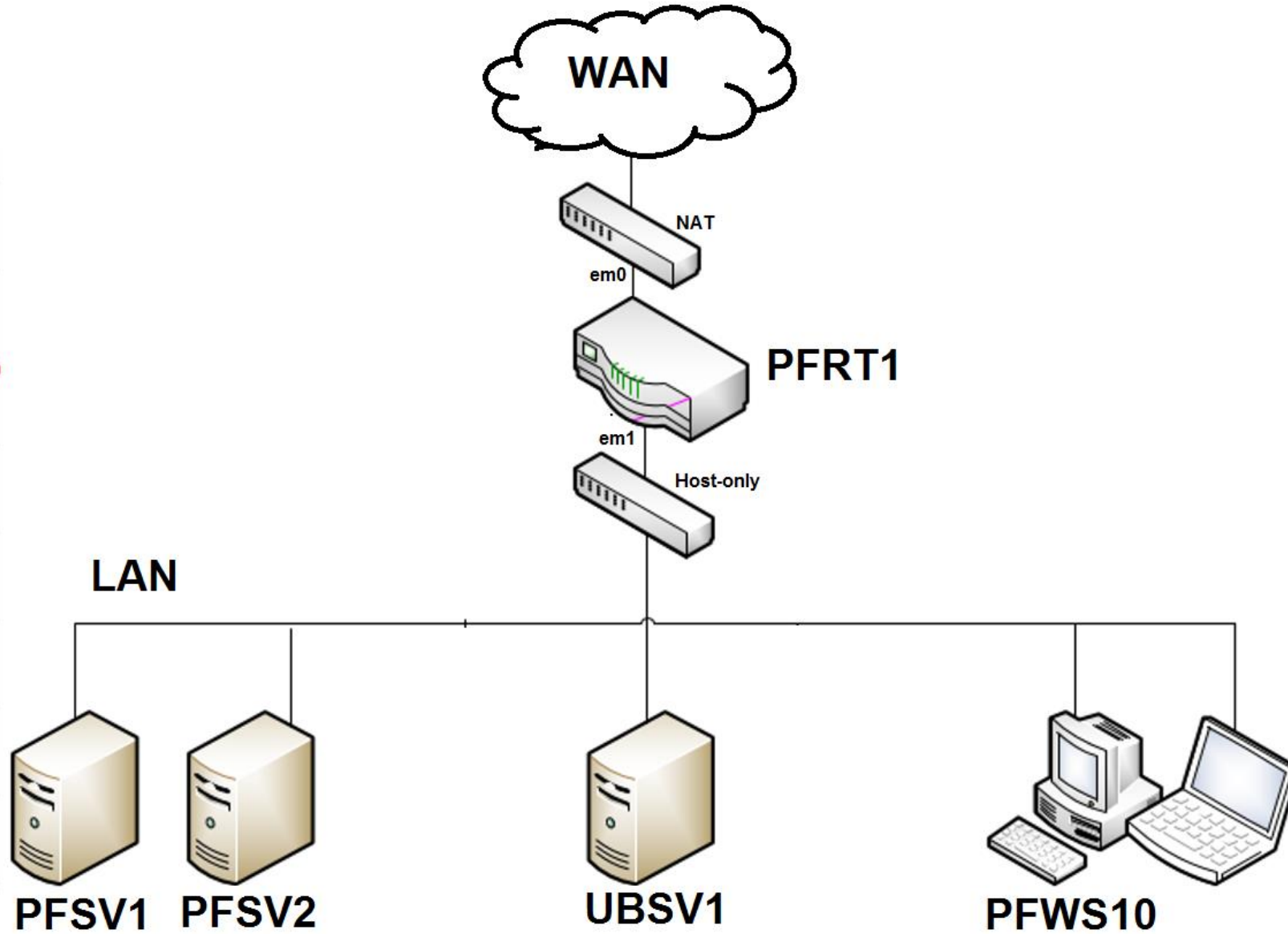
[Diffen](#) › [Technology](#) › [Telecommunications](#) › [Computer Networking](#)

**LAN**, which stands for **local area network**, and **WAN**, which stands for **wide area network**, are two types of networks that allow for interconnectivity between computers. As the naming conventions suggest, LANs are for smaller, more localized networking — in a home, business, school, etc. — while WANs cover larger areas, such as cities, and even allow computers in different nations to connect. LANs are typically faster and more secure than WANs, but WANs enable more widespread connectivity. And while LANs tend to be owned, controlled and managed in-house by the organization where they are deployed, WANs typically require two or more of their constituent LANs to be connected over the public Internet or via a private connection established by a third-party telecommunications provider.

# BOUWTEKENING



# PoliForma Local Area Network



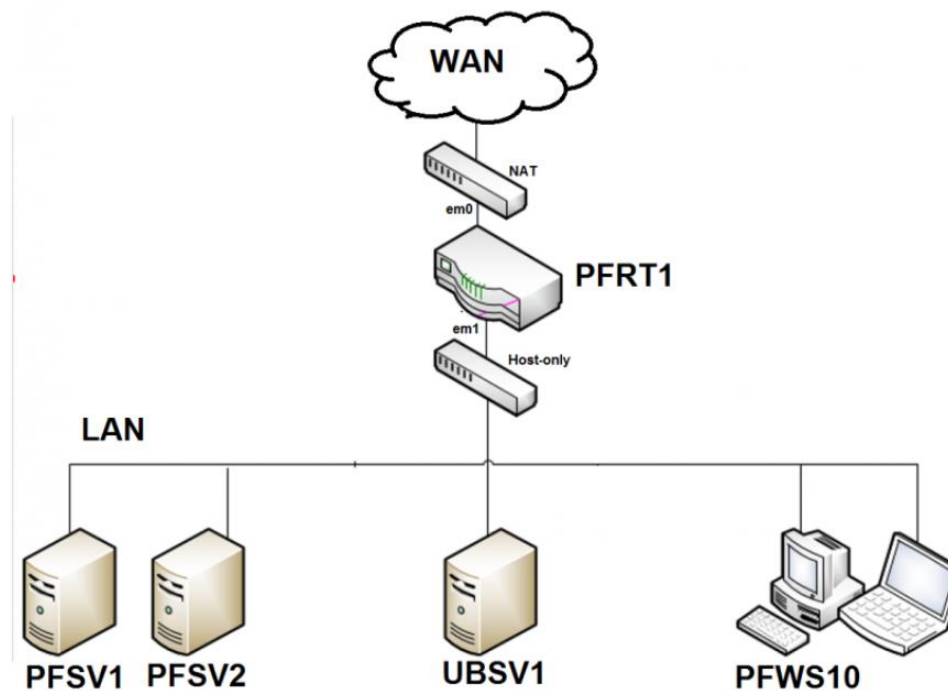
# Wikkiwijs.nl

Wikiwijs - deel 1 inrichting en beheer van een lan

ALGEMEEN
0 - Inleiding
1 - De installatie
2 - Active Directory
3 - DNS en internet
4 - DHCP
5 - Werkstation
6 - Schijvenbeheer
7 - Shares
8 - WDS
9 - OU's en gebruikers
<b>POLIFORMA LOCAL AREA NET...</b>
PFRT1 - PoliForma RouTer 1
UBSV1 - UBuntu SerVer 1
BEST PRACTICES
OUD VERSUS NIEUW
Colofon

## POLIFORMA LOCAL AREA NETWORK

### PoliForma Local Area Network



# PFRT1 – PoliForma Router 1

```
Enter a host name or IP address: google.nl
```

```
PING google.nl (172.217.17.131): 56 data bytes
64 bytes from 172.217.17.131: icmp_seq=0 ttl=128 time=10.834 ms
64 bytes from 172.217.17.131: icmp_seq=1 ttl=128 time=11.383 ms
^CpfSense - Netgate Device ID: 01592ba7fe4b82ac4cba
```

Het rode IP-adres  
kan afwijken

```
*** Welcome to pfSense 2.3.5-RELEASE (amd64 full-install) on pfSense ***
```

```
WAN (wan)      -> em0      -> v4/DHCP4: 192.168.20.170/24
LAN (lan)      -> em1      -> v4: 192.168.101.254/24
```

- 0) Logout (SSH only)
- 1) Assign Interfaces
- 2) Set interface(s) IP address
- 3) Reset webConfigurator password
- 4) Reset to factory defaults
- 5) Reboot system
- 6) Halt system
- 7) Ping host
- 8) Shell
- 9) pfTop
- 10) Filter Logs
- 11) Restart webConfigurator
- 12) PHP shell + pfSense tools
- 13) Update from console
- 14) Enable Secure Shell (sshd)
- 15) Restore recent configuration
- 16) Restart PHP-FPM

```
Enter an option: █
```

# UBSV1 – Ubuntu SerVer 1

```
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=44 ttl=127 time=9.42 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=45 ttl=127 time=10.0 ms
^C
--- google.nl ping statistics ---
45 packets transmitted, 45 received, 0% packet loss, time 44095ms
rtt min/avg/max/mdev = 8.591/10.533/32.448/4.492 ms
root@ubsv1:/etc/network# ping google.nl
PING google.nl (172.217.19.195) 56(84) bytes of data:
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=1 ttl=127 time=10.0 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=2 ttl=127 time=9.37 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=3 ttl=127 time=9.15 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=4 ttl=127 time=8.78 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=5 ttl=127 time=9.00 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=6 ttl=127 time=9.43 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=7 ttl=127 time=9.36 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=8 ttl=127 time=9.40 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=9 ttl=127 time=9.48 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=10 ttl=127 time=9.55 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=11 ttl=127 time=9.11 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=12 ttl=127 time=8.83 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=13 ttl=127 time=9.76 ms
64 bytes from ams16s31-in-f3.1e100.net (172.217.19.195): icmp_seq=14 ttl=127 time=9.32 ms
```