



Inleiding Server 2022



Windows Server







Inleiding tot Server 2022



Veranderingen in Server 2022



Systeemvereisten



Full vs Server Core



Licenties



Inleiding tot Server 2022

- Server van Microsoft NT10-familie
- → Zelfde kernel als Windows 10 21H2 (=ideale client)
- Verschillende edities:



Standard Edition

- Voor kleine en middelgrote netwerken
- Beperking tot 24TBRAM



Datacenter Edition

- Ontworpen voor datacentra
- Beperking tot 24TB RAM



Inleiding tot Server 2022

- Andere edities
 - ✓ Datacenter Azure Edition
 - √ Windows Essentials 2022
 - Standard Edition met alternatieve licentie
 - Verkrijgbaar bij OEM Server Hardware partners
 - Max 1 CPU met 10 cores

- Enkel bedoeld om te draaien in de Microsoft cloud
- Hotpatching (geen reboot nodig na installatie van updates)
- SMB over QUIC (alternatief voor VPN)



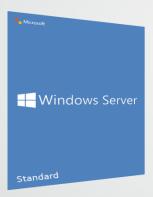
Veranderingen in Server 2022

- Verbeteringen Hybrid cloud
 - ✓ Azure Arc
 - ✓ SMB over QUIC
 - ✓ Nieuw Admin Center
- Verbeteringen Storage
 - ✓ Storage Migration Service
 - ✓ ReFS snapshots
 - ✓ SMB compression

- Verbeteringen Networking
 - ✓ Beter prestaties TCP en UDP
 - ✓ Snellere werking virtuele switches
- Verbeteringen Security
 - √ VBS (= Virtualization-based Security)
 - ✓ DoH (= DNS over HTTPS)
 - ✓ TLS1.3



Systeemvereisten



- Minimum snelheid van 1,4 GHz
 CPU
- 64-bit
- 512Mb (aangeraden 2 GB) tot maximum 4TB RAM
- 32Gb disk space



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In Windows Server 2022 zijn er 2 soorten installaties:

Full Installation

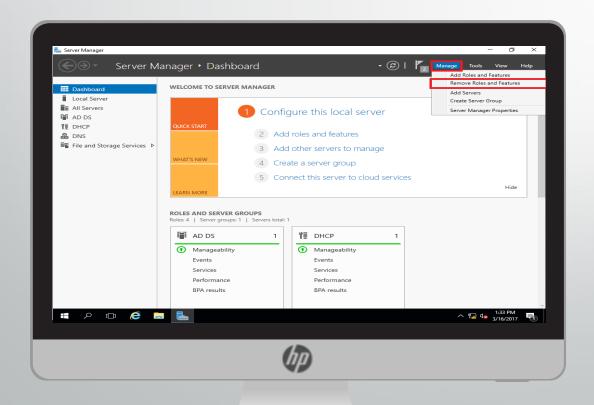


Server Core Installation



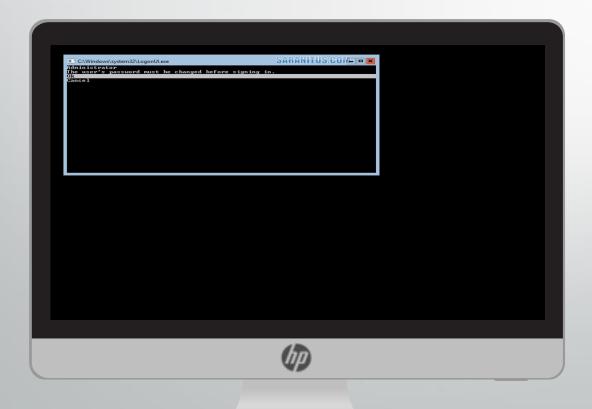
Men kan switchen tussen de 2 versies





- Grafische interface
- Bevat alle role services en features





- → Geen grafische interface⇒ alleen CMD-venster (Powershell)
- Enkele onderdelen wel nog grafisch (registry, bepaalde control panel applets, ...)
- Niet mogelijk om alle features en role services te installeren



Index

- Getal van 1 tot 4
- Staat voor installatie image
 - 1 = Standard Server Core
 - 2 = Standard GUI
 - 3 = Datacenter Server Core
 - 4 = Datacenter GUI

```
C:\Users\Administrator>dism /Get-WimInfo /WimFile:D:\sources\install.wim /index:4
Deployment Image Servicing and Management tool
Version: 10.0.17763.1
Details for image : D:\sources\install.wim
Name : Windows Server 2016 Datacenter (Desktop Experience)
Description: This option is useful when a GUI is required-for example, to provide backward compatibility for an applica
tion that cannot be run on a Server Core installation. All server roles and features are supported. For more details see
 "Windows Server Installation Options."
Size : 15.563.362.295 bytes
WIM Bootable : No
Architecture : x64
Hal : acpiapic
Version: 10.0.14393
ServicePack Build : 1198
ServicePack Level : 0
Edition : ServerDatacenter
Installation : Server
ProductType : ServerNT
ProductSuite : Terminal Server
System Root : WINDOWS
Directories : 21791
Files : 119113
Created: 04/02/2018 - 05:43:35
Modified: 04/02/2018 - 05:44:13
        en-US (Default)
```



LICENSING

Welke licentie?

Hangt volledig af van licentiemodel en editie





1 POSE + 2 VOSE





1 POSE + ongelimiteerd VOSE



- Minimum aantal licenties:
 - 8 cores per fysieke CPU
 - → 16 cores per server
- Verkocht per Packs van 2 cores (optioneel gebundeld in pack van 16)



LICENSING

Physical Operating System Environment

POSE

Welke licentie?

Hangt volledig af van licentiemodel en editie VOSE

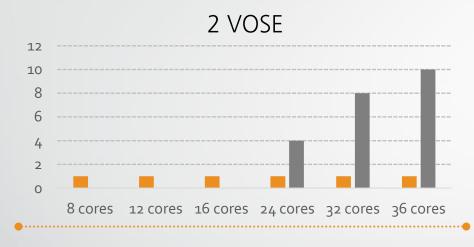
Virtual Operating
System Environment

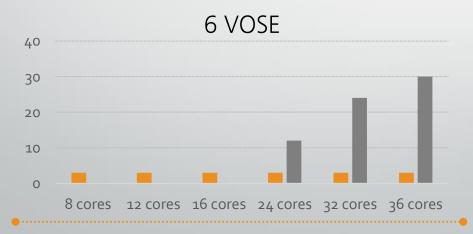
CAL

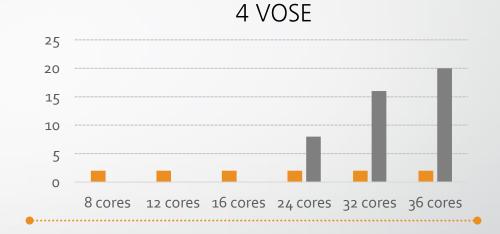
- Client Access License
- User of Device
- Verplicht te hebben!!!
- Productafhankelijk (CAL voor Windows Server, CAL voor RDS, CAL voor Exchange, ...)

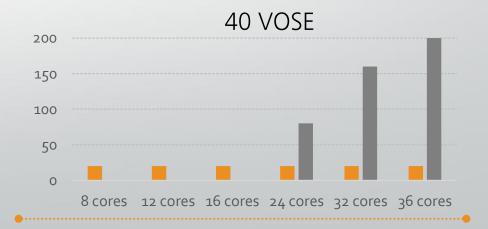












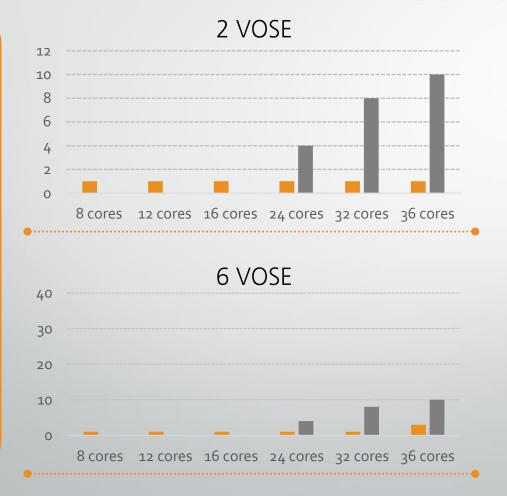


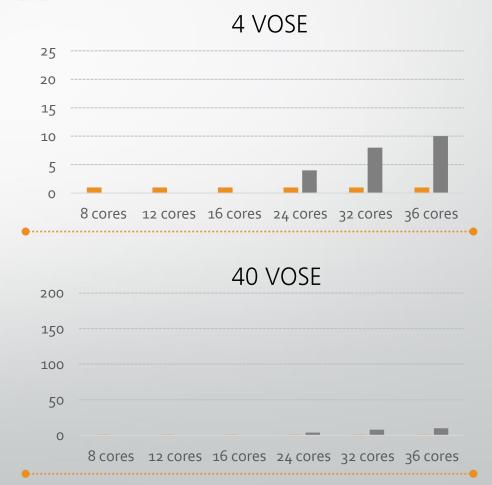




Licenties







Packs





Windows 2022 Licensing Overview



Windows 2022 Licensing Calculator

PEOPLE-CENTRIC



Licenties

Windows Server 2022 Edition	Ideal for	Licensing model	CAL requirements [1]	Suggested Retail Price (MSRP)[4]
Datacenter [2]	Highly virtualized datacenters and cloud environments	Core-based	Windows Server CAL	\$6,155
Standard [2]	Physical or minimally virtualized environments	Core-based	Windows Server CAL	\$1069
Essentials	Small businesses with up to 25 users and 50 devices	Specialty servers (server license) [3]	No CAL required	\$501





LAB – Lab-Setup



