



Installatie ConfigMgr



MECM



Systeemvereisten



Pre-Installatie (SQL Server)



Pre-Installatie (Active Directory)



Pre-Installatie (Extra software)



Pre-Installatie (Roles & Features)



Firewall Rules bij ConfigMgr

Systeemvereisten

FUTURE-PROOF

PEOPLE-CENTRIC

CPU
RAM
Disk space

CAS

2 GHz (8-20 cores)

16-128 GB

300 GB – 15 TB

Primary stand-alone

2 GHz (16 cores)

96 GB

500 GB

Primary in hiërarchie

2 GHz (8 cores)

16 GB

200 GB

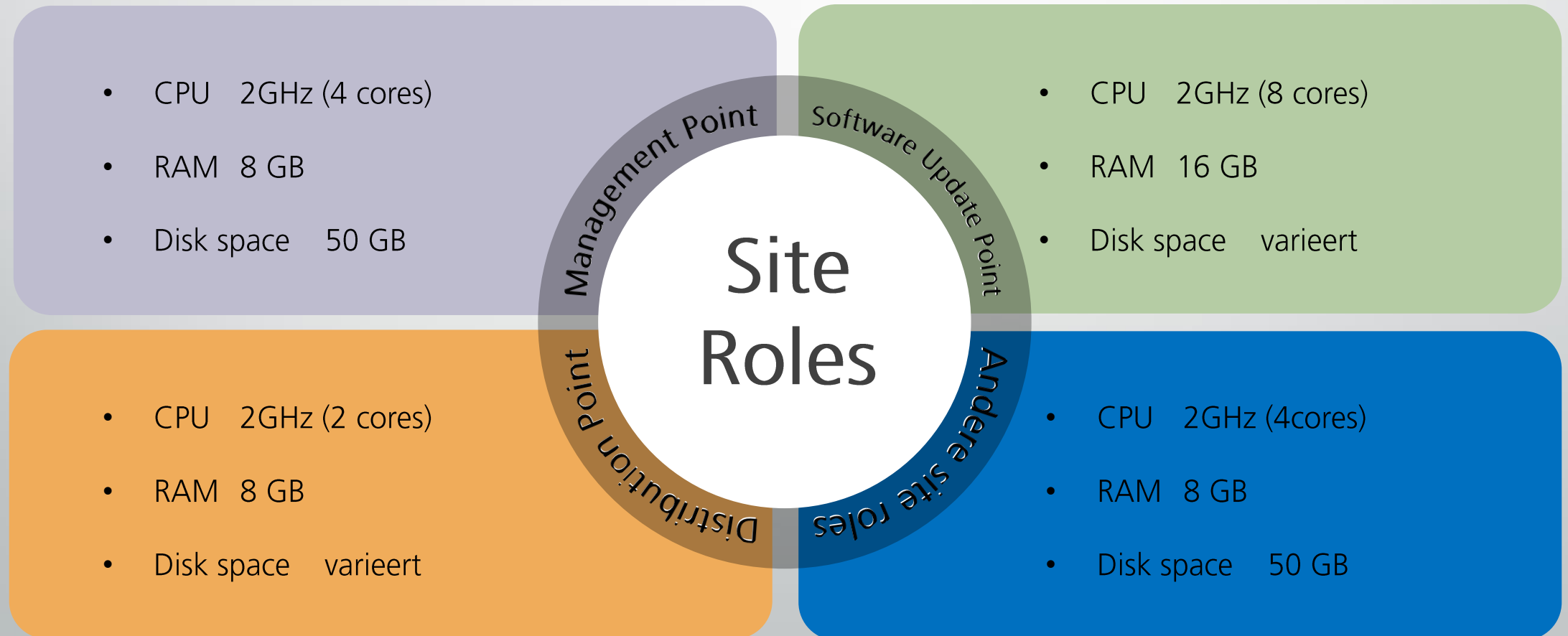
Secondary

2 GHz (8 cores)

16 GB

100 GB

Systemvereisten



Systemvereisten

Lab deployments

Use the following minimum hardware recommendations for lab and test deployments of Configuration Manager. These recommendations apply to all site types, up to 100 clients:

Role	CPU (cores)	Memory (GB)	Disk space (GB)
Site and database server	2 - 4	8 - 12	100
Site system server	1 - 4	2 - 4	50
Client	1 - 2	1 - 3	30

Systeemvereisten

➔ Ondersteunde OS's voor ConfigMgr:

✓ Windows Server 2012 en 2012 R2

✓ Windows Server 2016

✓ Windows Server 2019

✓ Windows Server 2022



[Supported site system servers - Configuration Manager | Microsoft Learn](#)

Systemvereisten

➔ Ondersteunde OS's voor ConfigMgr clients:

- ✓ Windows 8.1 (Pro, Enterprise)
- ✓ Windows 10 (Pro, Enterprise)
- ✓ Server 2012 (+R2), 2016, 2019, 2022
- ✓ Windows 11, 10/8.1/8 embedded
- ✓ MacOS 10.13-10.15 (nu Intune)
- ✓ Azure Virtual Desktop



[Supported clients and devices - Configuration Manager | Microsoft Learn](#)

Pre-Installatie (SQL Server)

➔ Ondersteunde versies van SQL Server:

- ✓ SQL Server 2012
- ✓ SQL Server 2012 SP1/SP2
- ✓ SQL Express (enkel ondersteund in Secondary Sites)
- ✓ SQL Server 2017
- ✓ SQL Server 2019

Pre-Installatie (SQL Server)

➔ Belangrijke SQL Server vereisten voor ConfigMgr:

- ✓ Collation: SQL_Latin1_General_CP1_CI_AS
- ✓ Authentication: Windows Authentication
- ✓ Reporting Services installeren
- ✓ Dedicated SQL Server instance



ConfigMgr Site Server moet admin rechten hebben op de SQL Server



ConfigMgr-server toevoegen aan lokale 'Administrators'-groep op SQL Server

Pre-Installatie (SQL Server)

Server Configuration

Specify the service accounts and collation configuration.

Setup Support Rules
Setup Role
Feature Selection
Installation Rules
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Analysis Services Configuration
Reporting Services Configuration
Error Reporting
Installation Configuration Rules
Ready to Install
Installation Progress
Complete

Service Accounts Collation

Database Engine:

SQL_Latin1_General_CP1_CI_AS Customize...

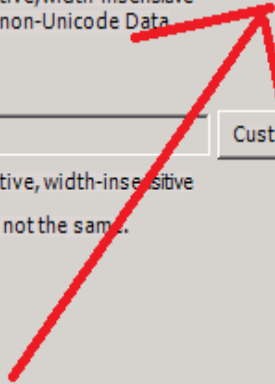
Latin1-General, case-insensitive, accent-sensitive, kanatype-insensitive, width-insensitive for Unicode Data, SQL Server Sort Order 52 on Code Page 1252 for non-Unicode Data

Analysis Services:

Latin1_General_CI_AS Customize...

Latin1-General, case-insensitive, accent-sensitive, kanatype-insensitive, width-insensitive

Warning: The Database Engine and Analysis Services collations are not the same.



Pre-Installatie (SQL Server)

- ➔ Collation aanpassen na SQL-installatie:

```
setup.exe  
/Quiet  
/Action=RebuildDatabase  
/InstanceName=MsSqlServer  
/SqlSysAdminAccounts="NT Authority\System" "Builtin\Administrators"  
"LAB\ConfigMgrAdmin"  
/SqlCollation="SQL_Latin1_General_CP1_CI_AS"
```

Collation nadien aanpassen geeft
ALTIJD problemen

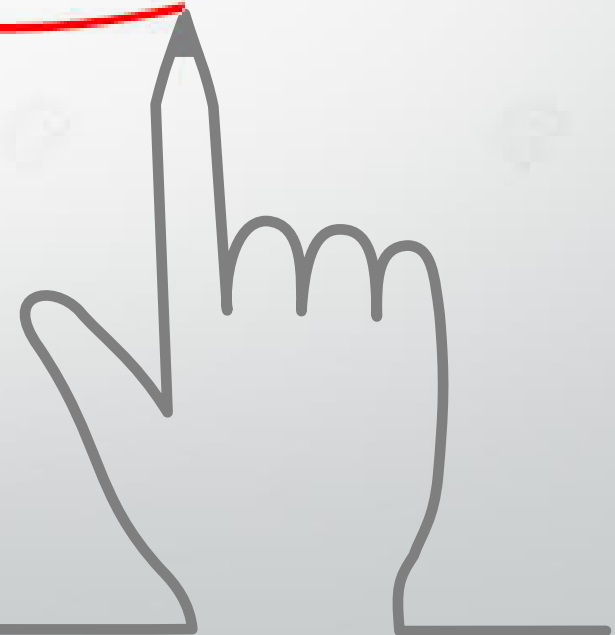


Beter nieuwe database aanmaken



LAB – Installatie SQL

Practice
Makes Perfect



Pre-Installatie (Active Directory)

- ➔ AD Schema uitbreiden
 - ✓ Zorgt voor auto-discovery van eigenschappen van ConfigMgr clients
 - ✓ Configuratie van poorten voor client-server communicatie
 - ✓ Bestand 'ExtADSch.exe' (op installatie-DVD van ConfigMgr) uitvoeren op DC
 - ✓ Uitvoerende user-account moet lid zijn van 'Schema Admins'

Pre-Installatie (Active Directory)

- ➔ Container 'System Management' aanmaken in ADSI Edit
 - ✓ Juiste naamgeving "System Management" is cruciaal voor geslaagde installatie !!
 - ✓ Permissies instellen op container 'System Management' voor Site Servers
 - ⇒ Site Servers kunnen informatie beheren
 - ✓ Deze container gaat objecten bewaren over ConfigMgr

!!! Best Practice: Aparte user account aanmaken voor beheren van ConfigMgr !!!

Pre-Installatie (Extra software)

- ➔ Windows ADK (= Assessment & Deployment Kit) + PE
 - ✓ User State Migration Tools (USMT)
 - ✓ Windows Pre-Installation Environment (Windows PE)
 - ✓ Deployment Tools
- ✓ .NET Framework 4.7

Pre-Installatie (Roles & Features)

- ➔ Windows Features
 - ✓ .NET Framework 3.5.1
 - ✓ Background Intelligent Transfer Service (BITS)
 - ✓ Remote Differential Compression

Pre-Installatie (Roles & Features)



Roles

- ✓ WebServer (IIS)
- ✓ Windows Server Update Services (WSUS)
 - = Pas nodig als SUP (= Software Update Point) wordt geconfigureerd
- ✓ Windows Deployment Services (WDS)
 - = Pas nodig als OSD (= OS Deployment) wordt geconfigureerd

Pre-Installatie (Roles & Features)

✓ WebServer (IIS)

- Common HTTP Features: Default Document, Directory Browsing, HTTP Errors, Static Content, HTTP Redirection, WebDAV Publishing
- Health and Diagnostics: HTTP Logging, Logging Tools, Request Monitor, Tracing
- Performance: Static Content Compression
- Security: Request Filtering, Basic Authentication, IP and Domain Restrictions, URL Authorization, Windows Authentication
- Application Development: .NET Extensibility 3.5, .NET Extensibility 4.7, ASP, ASP.NET 3.5, ASP.NET 4.7, ISAPI Extensions, ISAPI Filters
- Management Tools: IIS Management Console, IIS 6 Management Compatibility, IIS Management Scripts and Tools

Firewall Rules bij ConfigMgr

SCCM SERVER TO CLIENT (VICEVERSA)		
	TCP	80
	TCP	443
	TCP	445
	TCP	8530
	TCP	8531
	udp	9
SCCM CLIENT TO DC (VICEVERSA)		
	TCP	3268
	TCP	3269
SCCM SERVER TO DC (VICEVERSA)		
	TCP	389
	TCP	636
	TCP	3268
	TCP	3269
	TCP	135
SCCM SERVER TO SQL DATABASE SERVER (VICEVERSA)		
	TCP	1433
	TCP	4022
TELNET FOR ALL		
	TCP	23
PORTS SHOULD BE OPEN IN SCCMSERVER		
	TCP	80
	TCP	443
	TCP	445
	TCP	8530
	TCP	8531
	TCP	135
OPTIONAL		
RDP FROM SCCM SERVER TO CLIENT		2701



[Ports used for connections - Configuration Manager | Microsoft Learn](#)

Firewall Rules bij ConfigMgr

- ➔ In testomgevingen aangeraden om Windows Firewall uit te schakelen
- ➔ Overzicht van alle poorten voor ConfigMgr:

[Ports used for connections - Configuration Manager | Microsoft Learn](#)



LAB – Pre-Install MECM



LAB – Install MECM



LAB – Post-Install MECM



Labs – MECM

