

6. Windows CMD

System Essentials Windows 22-23



Windows Terminal



Open source terminal – uitvoeren van commandline applicaties



Verschillende applicaties

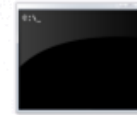
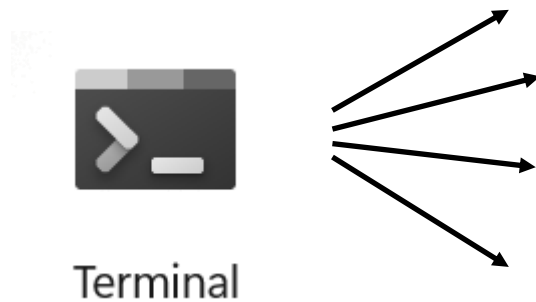


Integratie met Windows Subsystem for Linux (WSL)



Aanpasbaar: tabs – key bindings – kleuren,...

Windows Terminal



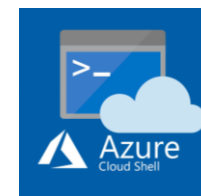
Opdrachtprompt

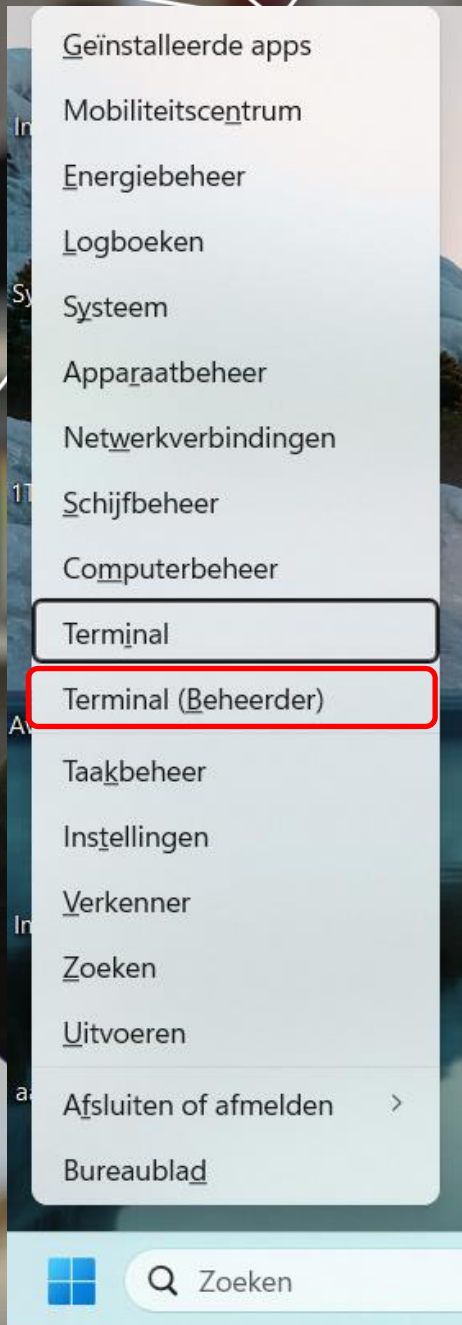


Windows PowerShell

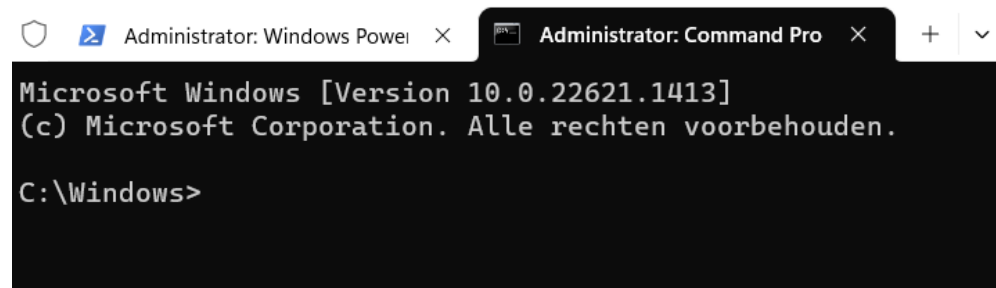
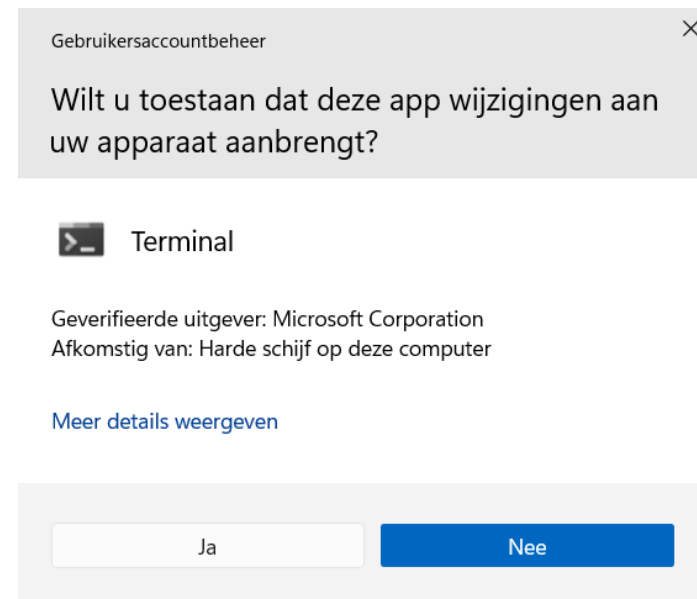


Linux





Lokale gebruiker Beheerder



Windows CMD: help

Command	Uitleg
help	Opvragen overzicht Windows commandline tools
dir /? help dir	Help pagina commando dir

```

REPLACE      Replaces files.
RMDIR        Removes a directory.
ROBOCOPY     Advanced utility to copy files and directory trees
SET          Displays, sets, or removes Windows environment variables.
SETLOCAL     Begins localization of environment changes in a batch file.
SC           Displays or configures services (background processes).
SCHTASKS     Schedules commands and programs to run on a computer.
SHIFT        Shifts the position of replaceable parameters in batch files.
SHUTDOWN     Allows proper local or remote shutdown of machine.
SORT         Sorts input.
START        Starts a separate window to run a specified program or command.
SUBST        Associates a path with a drive letter.
SYSTEMINFO   Displays machine specific properties and configuration.
TASKLIST     Displays all currently running tasks including services.
TASKKILL     Kill or stop a running process or application.
TIME         Displays or sets the system time.
TITLE        Sets the window title for a CMD.EXE session.
TREE         Graphically displays the directory structure of a drive or
              path.
TYPE         Displays the contents of a text file.
VER          Displays the Windows version.
VERIFY       Tells Windows whether to verify that your files are written
              correctly to a disk.
VOL          Displays a disk volume label and serial number.
XCOPY        Copies files and directory trees.
WMIC         Displays WMI information inside interactive command shell.

```

For more information on tools see the command-line reference in the online help.

C:\Program Files>

Windows CMD: network

Command	Uitleg
ipconfig	Opvragen IP info
ipconfig /?	Help pagina ipconfig
ipconfig /release	Vrijgeven DHCP lease
ipconfig /renew	Opvragen nieuwe DHCP lease
ipconfig /flushdns	Verwijderen lokale DNS cache
ipconfig /all	Gedetailleerde IP info opvragen

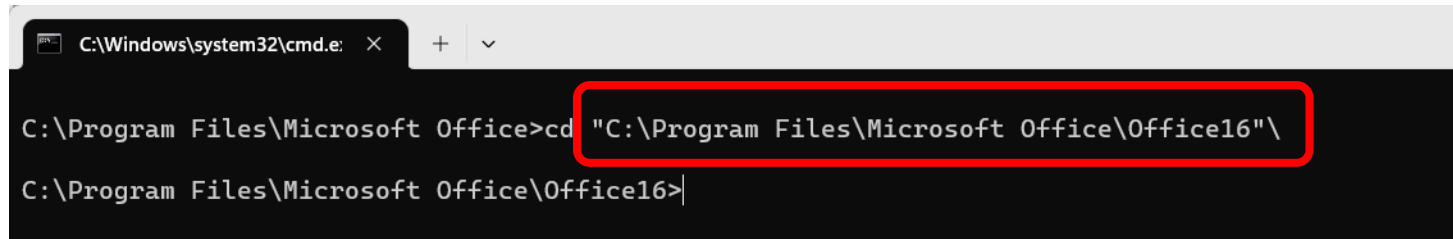
Windows CMD: network

Command	Uitleg
ping x.x.x.x	Ping IP adres
ping /?	Help pagina ping
ping -t x.x.x.x	Ping IP adres tot manueel onderbreken
tracert x.x.x.x	Traceroute van host of ip adres
tracert -h 10 x.x.x.x	Tracert met maximum van 10 hops
nslookup naam	Omzetten van naam naar IP adres

Windows CMD: navigeren

Command	Uitleg
cd	Verander van map
cd C:\Windows	Verander naar de map C:\Windows
cd ..	Navigeer naar één hoger liggende map
Cd %ProgramFiles%	Verander onmiddellijk naar C:\Program Files via environment variabele

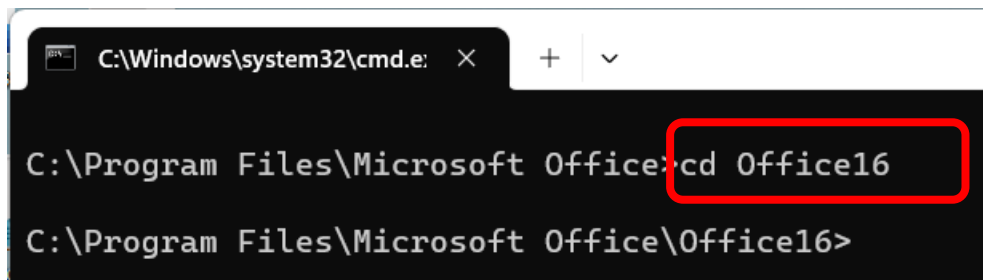
Windows CMD: navigeren



```
C:\Windows\system32\cmd.e: x + v  
C:\Program Files\Microsoft Office>cd "C:\Program Files\Microsoft Office\Office16\  
C:\Program Files\Microsoft Office\Office16>
```

A screenshot of a Windows Command Prompt window. The title bar shows 'C:\Windows\system32\cmd.e:'. The command prompt shows the current directory as 'C:\Program Files\Microsoft Office'. The user has entered the command 'cd "C:\Program Files\Microsoft Office\Office16\"', which is highlighted with a red rectangle. The prompt then shows the new directory as 'C:\Program Files\Microsoft Office\Office16>'.

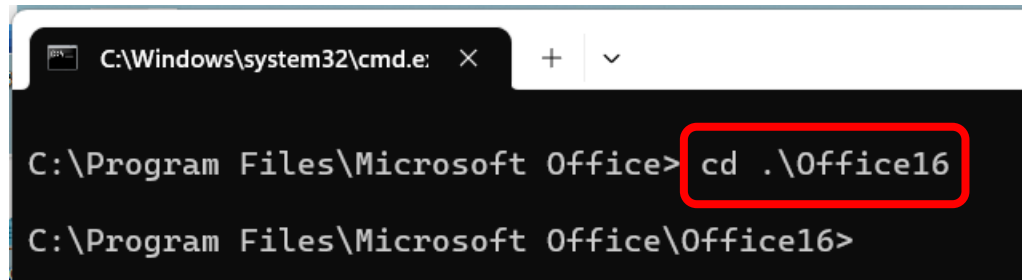
Absoluut pad



```
C:\Windows\system32\cmd.e: x + v  
C:\Program Files\Microsoft Office>cd Office16  
C:\Program Files\Microsoft Office\Office16>
```

A screenshot of a Windows Command Prompt window. The title bar shows 'C:\Windows\system32\cmd.e:'. The command prompt shows the current directory as 'C:\Program Files\Microsoft Office'. The user has entered the command 'cd Office16', which is highlighted with a red rectangle. The prompt then shows the new directory as 'C:\Program Files\Microsoft Office\Office16>'.

Relatief pad optie 1



```
C:\Windows\system32\cmd.e: x + v  
C:\Program Files\Microsoft Office>cd .\Office16  
C:\Program Files\Microsoft Office\Office16>
```

A screenshot of a Windows Command Prompt window. The title bar shows 'C:\Windows\system32\cmd.e:'. The command prompt shows the current directory as 'C:\Program Files\Microsoft Office'. The user has entered the command 'cd .\Office16', which is highlighted with a red rectangle. The prompt then shows the new directory as 'C:\Program Files\Microsoft Office\Office16>'.

Relatief pad optie 2

Windows environment variables

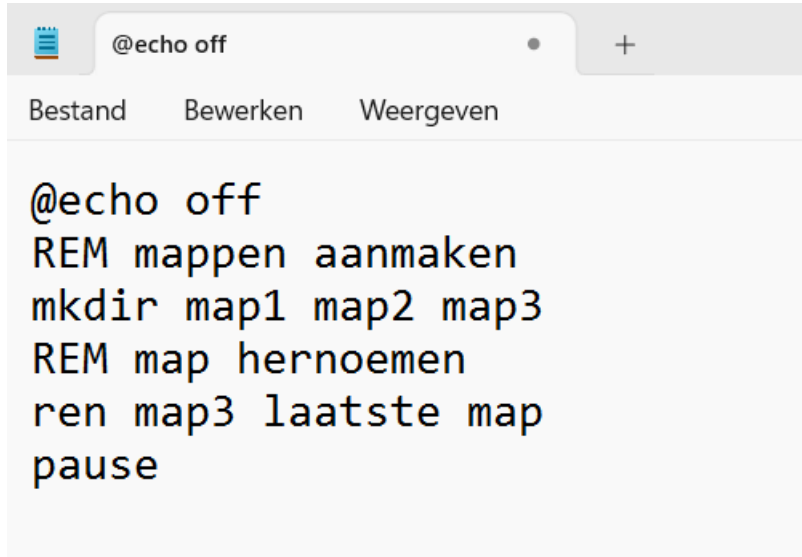
Command	Locatie	Info
%SystemRoot%	C:\Windows	Folder met besturingssysteem bestanden
%ProgramFiles%	C:\ProgramFiles	Locatie van applicaties in 64 bits
%ProgramFiles(x86)%	C:\Program Files(x86)	Locatie van applicaties in 32 bits
%ProgramData%	C:\Program Data\	
%SystemDrive%	C:\	De partitie waar Windows op geïnstalleerd staat
%UserProfile%	C:\Users\gebruikersnaam	Ga naar de map van de gebruiker die aangemeld is

Google zoekterm: “Microsoft Windows environment variables”

Windows CMD: files & folders

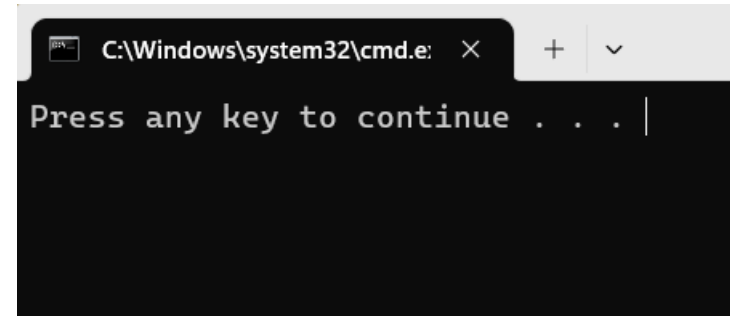
Command	Uitleg
mkdir of md	Maak folder
rmdir	Verwijder folder
del	Verwijder bestand
ren of rename	Hernoemen van een file or folder
copy	Kopiëren van een bestand of bestanden
move	Verplaatsen van een bestand of bestanden
xcopy	Kopiëren folder

Windows CMD: batch



```
@echo off
REM mappen aanmaken
mkdir map1 map2 map3
REM map hernoemen
ren map3 laatste map
pause
```

✓ Script.bat



```
C:\Windows\system32\cmd.e:
Press any key to continue . . . |
```

Batch File: script met een reeks van Windows commands in .bat file