

6. CLI en Windows

5.1 CLI in Windows

5.2 Opdrachten RUN command

- Wat is het verschil tussen “WIN & ‘iets typen’” en WIN+R en typen?
Welk van de twee is taalafhankelijk?
[Win+R is taalafhankelijk](#)
- Vergelijk voor volgende instellingen het gebruik van de GUI en ‘win+R’
 - Netwerkadapter instellingen (Voorbeeld: verander het IP adres)
[ncpa.cpl](#)
 - Open het control panel (configuratiescherm)
[control](#)
 - Toon de eigenschappen van je systeem
[msinfo32](#)
 - Open de C drive
[.\](#)
- Zoek naar de ‘.msc’ en ‘.cpl’ bestanden bruikbaar op jouw pc.

5.3 Opdrachten CMD

- Zoek naar een lijst met cmd, bruikbaar voor Windows 10.
https://www.thomas-krenn.com/en/wiki/Command_commands_under_Windows
- Test volgende cmd:
 - Help
 - Ping Google.com
[Ping 8.8.8.8](#)
 - Standaard worden hier 4 packets verstuurd.
Ping nu 100 packets via het ping cmd. (Tip, gebruik /?)
[Ping -l 600 -n 100 google.com](#)
 - whoami
 - ipconfig /all
- Maak volgende (eenvoudig) .batch files:
 - een batch file die in één klik een folder (naam =‘12maanden’) in de huidige directory plaats met als inhoud 12 lege folders (naam: ‘01_Jan’, ‘02_Feb’, ‘03_Maart’,...)
`mkdir "12maanden"`
[cd "12maanden"](#)
`mkdir "01_Jan"`
`mkdir "02_Jan"`
`mkdir "03_Jan"`

```

mkdir "04_Jan"
mkdir "05_Jan"
mkdir "06_Jan"
mkdir "07_Jan"
mkdir "08_Jan"
mkdir "09_Jan"
mkdir "10_Jan"
mkdir "11_Jan"
mkdir "12_Jan"

```

- een batch file die met één klik 5 webpagina's opent.
[start "" https://www.youtube.com/watch?v=RXRRhRIKW3s](https://www.youtube.com/watch?v=RXRRhRIKW3s)
echo Halloooo >"%USERPROFILE%\Desktop\blank.txt"
- Wat zou volgend .batch file doen? (analyseer en test het)

```

@echo off

rem For each file in your folder
for %%a in (*.*) do (
rem check if the file has an extension and if it is not our script
if "%%~xa" NEQ "" if "%%~dpxa" NEQ "%~dpx0" (
rem check if extension folder exists, if not it is created
if not exist "%%~xa" mkdir "%%~xa"
rem Move the file to directory
move "%%a" "%~dpa%%~xa\"
))

```

5.4 Opdracht CMD vs PS

- Lokaliseer waar in Windows CMD en Powershell zich bevindt. Wat kan je hieruit afleiden? Zijn de programma's dezelfde? Waarvoor staat de X86 , waarvoor staat ISE?
[X86 = x86 simply refers to a family of processors and the instruction set they all use.](#)
[ISE = Integrated Scripting Environment](#)
 - In welke folder vind je cmd.exe?
 - In welke folder vind je Windows PowerShell.exe?
 - In welke folder vind je Windows PowerShell (x86).exe?
 - In welke folder vind je Windows PowerShell ISE.exe?
 - In welke folder vind je Windows PowerShell ISE (x86).exe?
 - Kan je PS opstarten vanuit CMD en omgekeerd? Zoja, hoe?
[Start powershell ise / start cmd](#)

cmd command	Description
Basics:	
call	calls a batch file from another one
cd	change directory
cls	clear screen
cmd	start command prompt
color	change console color
date	show/set date
dir	list directory content
echo	text output
exit	exits the command prompt or a batch file
find	find files
hostname	display host name
pause	pauses the execution of a batch file and shows a message
runas	start a program as another user
shutdown	shutdown the computer

sort	sort the screen output
start	start an own window to execute a program or command
taskkill	terminate a process or a application
tasklist	display applications and related tasks
time	display/edit the system time
timeout	wait any time
title	set title for prompt
ver	display operating system version
w32tm	setting time synchronisation/time server/time zone
Network:	
ftp	transfer files to a FTP server
ftype	display file type and mapping
getmac	display MAC address
ipconfig	display IP network settings
netsh	configure/control/display network components
netstat	display TCP/IP connections and status

nslookup	query the DNS
pathping	test the connection to a specific IP address
ping	pings the network
route	display network routing table, add static routes
systeminfo	displays computer-specific properties and configurations
telnet	establish Telnet connection
tftp	transfer files to a TFTP server
tracert	trace routes similar to patchping
Files:	
attrib	display file attributes
comp	compare file contents
compact	display/change file compression
copy / xcopy	copy files
diskcomp	compare content of two floppy disks
diskcopy	copy floppy disc to another one
erase / del	delete one or more files

expand	extract files
fc	compare files and display the differences
mkdir	create a new directory
move	move/rename files
rename	rename files
replace	replace files
rmdir / rd	delete directory
tree	display folder structure graphically
type	display content of text files
Media:	
chkdsk	check volumes
chkntfs	display/change volume check at startup
defrag	defragment media
diskpart	volume management
driverquery	display installed devices and their properties
format	format volumes

label	change volume name
mode	configure interfaces/devices
mountvol	assign/delete drive mountpoints
verify	monitoring whether volumes are written correctly
vol	show volume description and serial numbers of the HDDs
Miscellaneous:	
for	for loop
gpresult	display group policies
gpupdate	update group policies
perfmon	start performance monitor
prompt	change command prompt
reg	add/read/import/export registry entries