



# Powershell Help



Powershell



Get-Command



Get-Help



"About\_" help files



Syntax

# Get-Command



Zeer handig CMD-Let (voor beginnende Powershell-gebruikers)

⇒ Lijst van bestaande CMD-Let(s) genereren

➔ Parameter "*-Verb*"

➔ Parameter "*-Noun*"



# Get-Command

- ➔ Alle CMD-Lets vinden die te maken hebben met een "service"

`Get-Command -Noun Service`

```
Windows PowerShell
PS C:\> Get-Command -Noun Service

CommandType      Name
-----
Cmdlet            Get-Service
Cmdlet            New-Service
Cmdlet            Restart-Service
Cmdlet            Resume-Service
Cmdlet            Set-Service
Cmdlet            Start-Service
Cmdlet            Stop-Service
Cmdlet            Suspend-Service
```

# Get-Command

## ➔ Syntax opvragen van CMD-Let "Get-Service"

```
Get-Command `
  -Name Get-Service `
  -Syntax
```

```
Windows PowerShell
PS C:\> Get-Command `
>> -Name Get-Service `
>> -Syntax

Get-Service [[-Name] <string[]>] [-ComputerName <string[]>]
<string[]>] [-Exclude <string[]>] [<CommonParameters>]

Get-Service -DisplayName <string[]> [-ComputerName <string[]>]
ude <string[]>] [-Exclude <string[]>] [<CommonParameters>]

Get-Service [-ComputerName <string[]>] [-DependentServices
e <string[]>] [-InputObject <ServiceController[]>] [<Common
```

# Get-Help

- = Helpfunctie binnen Powershell zelf over CMD-Lets
  - ✓ Basisinformatie over CMD-Let
    - ➔ naam, synopsis, syntax, beschrijving
  - ✓ Help up-to-date houden
    - ➔ *"Update-Help"*
    - ⇒ Vergelijkbaar met online inhoud



## Get-Help

- ➔ `"-Examples"` Geeft voorbeelden
- ➔ `"-Detailed"` Geeft info over parameters en voorbeelden
- ➔ `"-Full"` Geeft info over parameters, voorbeelden en meer
- ➔ `"-Online"` Opent browser en toont online helppagina
- ➔ `"-ShowWindow"` Opent helppagina in apart (configureerbaar) venster

# Get-Help

➔ Help opvragen voor het CMD-Let "Get-Service"

✓ *Get-Help Get-Service*

✓ *Get-Service -?*

✓ *Help Get-Service*

✓ *Man Get-Service*

```

C:\> help get-service

NAME
    Get-Service

SYNOPSIS
    Gets the services on a local or remote computer.

SYNTAX
    Get-Service [-ComputerName <System.String[]>] [-DependentServices] -DisplayName <System.String[]> [-Exclude <System.String[]>] [-Include <System.String[]>] [-RequiredServices] [<CommonParameters>]

    Get-Service [-ComputerName <System.String[]>] [-DependentServices] [-Exclude <System.String[]>] [-Include <System.String[]>] [-InputObject <System.ServiceProcess.ServiceController[]>] [-RequiredServices] [<CommonParameters>]

    Get-Service [[-Name] <System.String[]>] [-ComputerName <System.String[]>] [-DependentServices] [-Exclude <System.String[]>] [-Include <System.String[]>] [-RequiredServices] [<CommonParameters>]
    
```



# Get-Help

```
PS C:\> help get-service
```

## NAME

Get-Service

## SYNOPSIS

Gets the services on a local or remote computer.

## SYNTAX

```
Get-Service [-ComputerName <System.String[]>] [-DependentServices] -DisplayName <System.String[]> [-Exclude <System.String[]>] [-Include <System.String[]>] [-RequiredServices] [<CommonParameters>]
```

```
Get-Service [-ComputerName <System.String[]>] [-DependentServices] [-Exclude <System.String[]>] [-Include <System.String[]>] [-InputObject <System.ServiceProcess.ServiceController[]>] [-RequiredServices] [<CommonParameters>]
```

```
Get-Service [[-Name] <System.String[]>] [-ComputerName <System.String[]>] [-DependentServices] [-Exclude <System.String[]>] [-Include <System.String[]>] [-RequiredServices] [<CommonParameters>]
```

## *"About\_" help files*

- = Help-bestanden "About\_..."
  - ✓ Informatie over verschillende onderwerpen in Powershell
    - ➔ Onderwerpen, concepten, ...
  - ✓ Help up-to-date houden
    - ➔ `"Update-Help"`
    - ⇒ Vergelijkbaar met online inhoud

# "About\_" help files

- ➔ Meer uitleg opvragen over parameters

*Get-Help about\_parameters*

```
PS C:\> Get-Help about_parameters

ABOUT_PARAMETERS

Short description
Describes how to work with command parameters in PowerShell.

Long description
Most PowerShell commands, such as cmdlets, functions, and scripts, rely on
parameters to allow users to select options or provide input. The
parameters follow the command name and have the following form:

    -<parameter_name> <parameter_value>
    -<parameter_name>:<parameter_value>
```

# Syntax

- ➔ Alles tussen <...> is verplicht
- ➔ Alles tussen [...] is optioneel

- ⇒ Lange schrijfwijze: alle parameters meegeven (scripts!)
- ⇒ Korte schrijfwijze: weglaten wat niet nodig is (shell)



Volgorde respecteren  
bij korte schrijfwijze

# Syntax

Parameter ingeven  
is niet verplicht

Parameterset

```
SYNTAX
Get-Service [-ComputerName <System.String[]> [-DependentServices] -DisplayName <System.String[]> [-Exclude <System.String[]> [-Include <System.String[]> [-RequiredServices] [<CommonParameters>]

Get-Service [-ComputerName <System.String[]> [-DependentServices] [-Exclude <System.String[]> [-Include <System.String[]> [-InputObject <System.ServiceProcess.ServiceController[]> [-RequiredServices] [<CommonParameters>]

Get-Service [[-Name] <System.String[]> [-ComputerName <System.String[]> [-DependentServices] [-Exclude <System.String[]> [-Include <System.String[]> [-RequiredServices] [<CommonParameters>]
```

Positionele  
parameter

Parameterwaarde  
is verplicht

Meerdere waarden  
zijn mogelijk

# Syntax

- ➔ Items opvragen in bepaald pad via het CMD-Let "Get-ChildItem"

```
Get-ChildItem  
[[-path] <string>]
```

- ➔ "-path" moet je NIET opgeven
- ➔ <string> moet je WEL opgeven

```
Windows PowerShell  
PS C:\> Get-ChildItem c:\windows  
  
Directory: C:\windows  
  
Mode                LastWriteTime         Length Name  
----                -  
d-----          5/06/2021    20:06             addins  
d-----         22/11/2021     7:48             appcompat  
d-----         13/05/2022     9:03             apppatch  
d-----         16/05/2022     9:26             AppReadiness  
-r---         31/01/2022    19:29             assembly
```



LAB – Powershell Help

Practice  
Makes Perfect