Filtering

• Mit dem Parameter -Filter werden nur ausgewählte Objekte an die Pipe gesendet

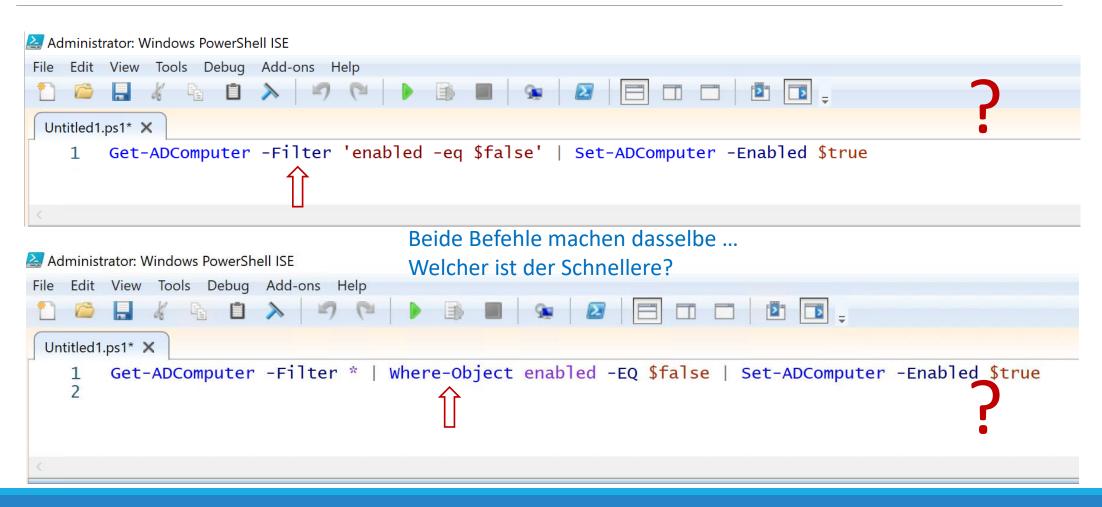
```
02. Codes. PowerShell Pipe > ≥ disable_all_win8_computer.ps1

1 Get-ADComputer -Properties * -Filter 'operatingsystem -like "*windows 8*"' |

2 Set-ADComputer -Enabled $false

3
```

Filtering – Where-Object vs. Filtering



Filtering – Where-Object vs. Filtering

Welcher ist der Schnellere?

```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Untitled1.ps1* X
      Measure-Command {Get-ADComputer -Filter 'enabled -eq $false' | Set-ADComputer -Enabled $true}
      Measure-Command {Get-ADComputer -Filter * | Where-Object enabled -EO $false | Set-ADComputer -Enabled $true}
 PS C:\Users\patrick> Measure-Command {Get-ADComputer -Filter 'enabled -eq $false' | Set-ADComputer -Enabled $true}
 Measure-Command {Get-ADComputer -Filter * | Where-Object enabled -EQ $false | Set-ADComputer -Enabled $true}
                  : 0
 Days
 Hours
                  : 0
 Minutes
 Seconds
                  : 0
 Milliseconds
                  : 112
                  : 1127022
 Ticks
 TotalDays
                  : 1.30442361111111E-06
 TotalHours
                  : 3.1306166666667E-05
 TotalMinutes
                  : 0.00187837
                  : 0.1127022
 TotalSeconds
 TotalMilliseconds: 112.7022
                  : 0
 Days
 Hours
                  : 0
 Minutes
                  : 0
 Seconds
                  : 2
 Milliseconds
                  : 29663737
 Ticks
 TotalDays
                  : 3.43330289351852E-05
 Total Hours
                  : 0.00082399269444444
 TotalMinutes
                  : 0.0494395616666667
                  : 2.9663737
 TotalSeconds
 TotalMilliseconds: 2966.3737
```

Where-Object

- Steht Filtering (-Filter) nicht zur Verfügung muss Where-Object aushelfen
- Beispiel: Get-Hotfix → Where-Object

PS C:\> Get-Hotfix Where-Object InstalledOn -ge (Get-Date).AddDays(-50)				
Source	Description	HotFixID	InstalledBy	InstalledOn
	Update Security Update Security Update		NT-AUTORITÄT\SYSTEM	20.12.2020 00:00:00 13.01.2021 00:00:00 13.01.2021 00:00:00