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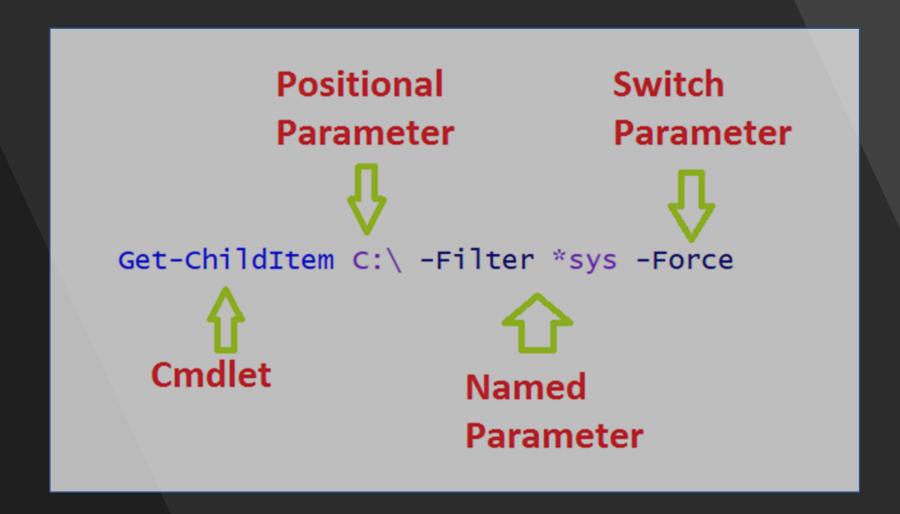
PowerShell versions

OS	PowerShell version
Windows 7, Server2008R2	2.0
Windows 8, Server2012	3.0
Windows 8.1, Server 2012R2	4.0
Windows 10, Server 2016	5.0
Windows 10 Creators Update	5.1

How to check your PowerShell version:

\$PSVersionTable

PowerShell language



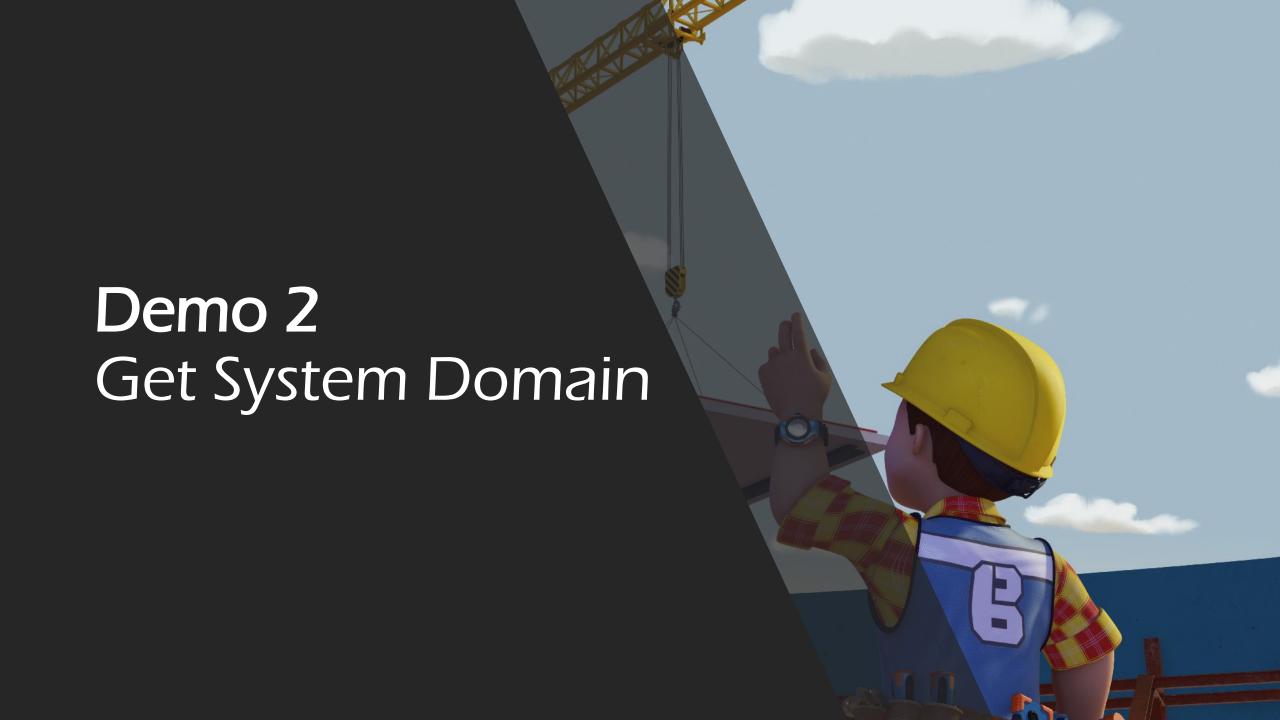


Requirements

- 1. Structured output Objects!
- 2. Hostname of the system
- 3. Domain name of system
- 4. OS info
- 5. Memory info
- 6. System disk
- 7. Pagefile
- 8. IP info
- 9. Create a function



- Found the host name of the system
- Looked at PowerShell drives
- Explored the Env: drive
- Found the hostname of the system
- Created a PowerShell object
- Exported the object to csv
- Opened csv in Excel

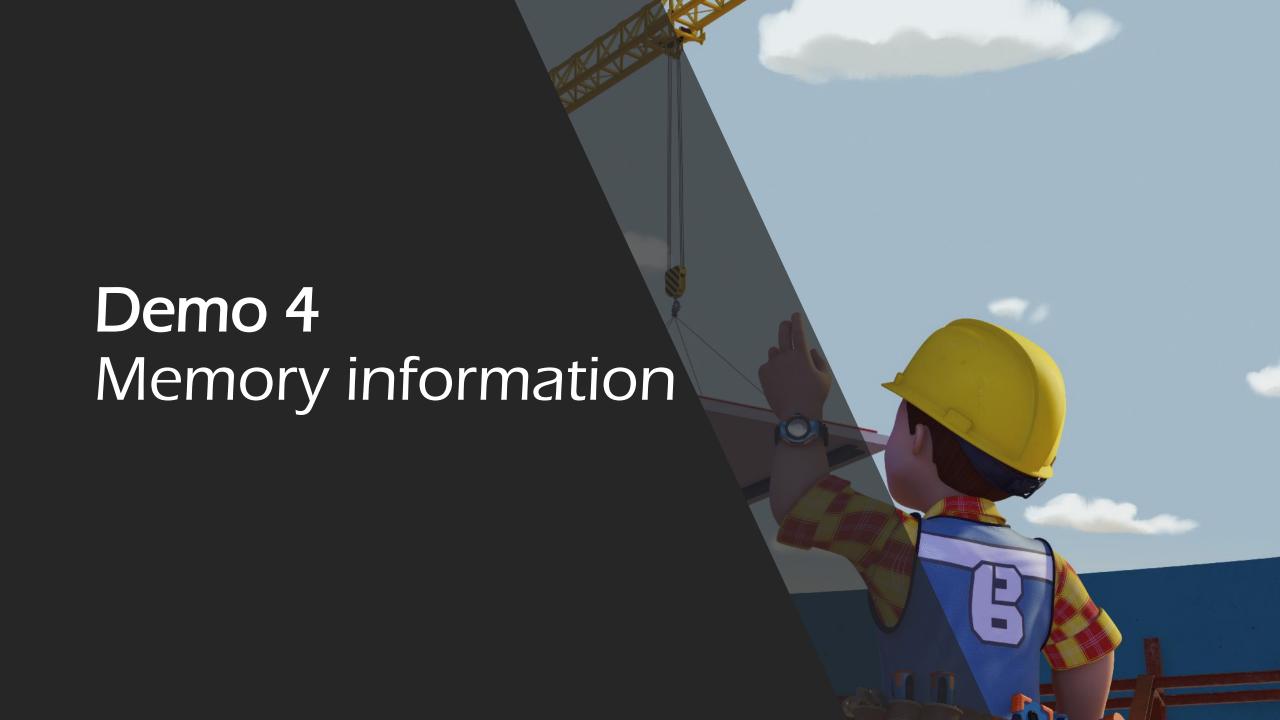


- Found the user domain
- Found the system domain
- Merged output with previous output

Demo 3
OS Information



- Used the Win32_OperatingSystem class
- Retrieved the information
- Established Get-WmiObject is obsolete
- Used Get-CimInstance
- Help examples with array indexing
- Used WQL to speed up query
- Get-CimInstance hiding output



- Retrieved information from ComputerSystem
- Divided by GB
- Strong typed as integer to remove rounding
- Used format operator to create string

Demo 5 Timezones



- Used the Get-TimeZone cmdlet
- Found out that the timezone description does not take DST into account
- Used [datetime] type accelerator
 - UtcNow
 - Now
- Calculated actual time difference
- Combined output into a single string

Demo 6 System disk size



- Find out which disk is the system disk
- Find out how big the disk is
- Create the correct WQL query
- Format output into a string
- Set number of decimals for size in GB with [math]::round



- Found the registry provider PSDrive
- Looked at the 'Memory Management' key
- Retrieved the information using Get-ItemProperty
- Used the –join operator to collapse the array



- Create the Get-ComputerInformation function
- Create a hashtable
- Fill the values in the hashtable using output from the commands created
- Convert the hashtable to a PowerShell custom object
- Ran the function

