

Manage your infrastructure with PowerShell

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PowerShell

Conference Asia

Singapore 26-28th October 2017



PSConfAsia 2017 - back for a 3rd year

Agenda



Building the tools

- Structured output – Objects!
- Hostname of the system
- Domain name of system
- OS info
- Memory info
- System disk
- Pagefile
- Create a function

The word "DEMO" is rendered in a playful, bubbly font that resembles pink donuts with yellow outlines and blue sprinkles. The letters are thick and rounded, with a slight 3D effect. The background is a light yellow with a repeating pattern of faint, stylized donuts.

Demo 1 – Retrieve hostname

Demo Summary

- 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

The word "DEMO" is rendered in a playful, cartoonish style where each letter is shaped like a donut. The donuts are pink with yellow outlines and are decorated with small blue dots. They are arranged horizontally and cast a soft shadow on the surface below them.

DEMO

Demo 2 – Get System Domain

Demo Summary

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

The word "DEMO" is rendered in a playful, bubbly font. The letters are primarily pink with a thick yellow outline. Small blue dots are scattered across the pink surfaces of the letters. The word has a slight 3D effect with a soft shadow underneath.

Demo 3 – OS Information

Demo Summary

- 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- Established Get-WmiObject is obsolete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

The word "DEMO" is rendered in a playful, bubbly font where each letter is shaped like a donut. The donuts are pink with yellow outlines and are decorated with small blue dots. They are arranged in a slightly overlapping, three-dimensional manner, casting soft shadows on the surface below them. The background is a light yellow with a repeating pattern of faint, stylized donut icons.

Demo 4 – Memory Information

Demo Summary

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

The word "DEMO" is rendered in a playful, bubbly font where each letter is shaped like a pink donut with blue sprinkles. The letters have a thick purple outline and a yellow drop shadow, giving them a 3D appearance. The background is a light yellow with a repeating pattern of faint, stylized donuts.

Demo 5 – Timezones

Demo Summary

- 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

The word "DEMO" is rendered in a playful, bubbly font. The letters are primarily pink with a thick yellow outline. Small blue dots are scattered across the pink surfaces. The letters have a slight 3D effect with a soft shadow underneath. The background is a light yellow with a repeating pattern of faint, stylized orange letters.

Demo 6 – System Disk Size

Demo Summary

- 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`

The word "DEMO" is rendered in a playful, bubbly font where each letter is shaped like a pink donut with blue sprinkles. The letters have a thick purple outline and a yellow drop shadow, giving them a 3D appearance. The background is a light yellow with a faint, repeating pattern of the word "OF" in a light orange color.

Demo 7 – Pagefile from registry

Demo Summary

- 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

The word "DEMO" is rendered in a playful, bubbly font where each letter is shaped like a pink donut with blue sprinkles. The letters have a thick purple outline and a yellow shadow underneath, giving them a 3D appearance. The background is a light yellow with a faint, repeating pattern of the word "OF".

DEMO

Demo 8 – Create the function

Demo Summary

- 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



Questions?