

PowerShell Objects

Martin Schwartzman

Principal Azure Consultant

martin.schvartzman@microsoft.com

[@martin77s](#)



PowerShell Objects



Everything in Windows PowerShell is an object



Objects consist of properties & methods (members), defined in a type



An object is an instance of a type



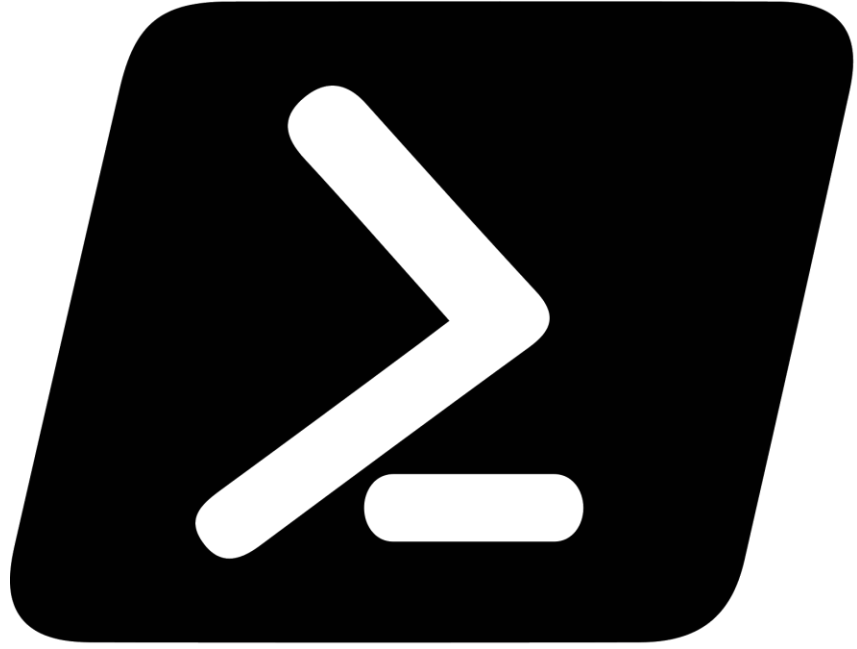
Dot Notation is used to access an object's members



The Get-Member cmdlet lists the type members of an object

Demos

```
File Edit Selection View Go Debug Terminal Help 6. Add Object Method With ps1xml.ps1 - Objects - V
> 4. Custom Object Type Display.ps1 > 5. Add Object Method.ps1 > 6. Add Object Method With ps1xml.ps1 X
> 6. Add Object Method With ps1xml.ps1 > ...
7 @'
8 <Types>
9   <Type>
10     <Name>System.String</Name>
11     <Members>
12       <ScriptMethod>
13         <Name>Marco</Name>
14         <Script>
15           Write-Host "Polo"
16         </Script>
17       </ScriptMethod>
18       <ScriptMethod>
19         <Name>ToASCII</Name>
20         <Script>
21           for ($i=0;$i -le $this.length;$i++) {
22             Write-Host "$([int]$( $this[$i]))" -NoNewLine
23           }
24           Write-Host ""
25         </Script>
26       </ScriptMethod>
27       <ScriptMethod>
28         <Name>ToASCII2</Name>
29         <Script>
30           0..$this.length | % {
31             Write-Host "$('{0:x}' -f [int]$( $this[$_])).ToUpper()" -NoNewLine
```



Thank you