Finding and Using Commands

Objectives:

At the end of this episode, I will be able to:

1. Use PowerShell cmdlets.
2. Find commands using the Get-Command cmdlet.

Additional resources used during the episode can be obtained using the download link on the overview episode.

* PowerShell Cmdlets
  + Verb-Noun
  + Parameters
    - Provide input
    - Select options
    - Name starts with a hyphen
    - Can be
      * Required
      * Positional

Get-Service

Get-Service - (use tab autofill to find parameter)

Get-Service -Name winrm

Get-Service -Name win\*

* Pipeline
  + Combine commands
  + Output of first is input of second command
  + Multiple pipes in a command chain or pipeline

Get-Service | Get-Member

Get-Service | Where-Object {$\_.status -eq "Running"}

Get-Service | Where-Object {$\_.status -eq "Running"} | Select-Object DisplayName, Status

Get-NetIPAddress | Where-Object {$\_.AddressFamily -eq "ipv4"} | Select-Object InterfaceAlias, IPAddress

* Get-Command
  + Used to locate commands
  + -Name parameter searches entire system
  + -Verb and/or -Noun parameters limit search to PowerShell

Get-Command -Name \*time\*

timedate.cpl

Get-Command -Noun \*time\*

Get-Command -Noun \*time\* -Verb get

External Resources:

During this episode, you can reference the following external resources for supplementary tools and information:

* [Approved Verbs](https://docs.microsoft.com/en-us/powershell/scripting/developer/cmdlet/approved-verbs-for-windows-powershell-commands?view=powershell-7.2)
* [about\_Parameters](https://docs.microsoft.com/en-us/powershell/module/microsoft.powershell.core/about/about_parameters?view=powershell-7.2)
* [about\_Pipelines](https://docs.microsoft.com/en-us/powershell/module/microsoft.powershell.core/about/about_pipelines?view=powershell-7.2)
* [Get-Command](https://docs.microsoft.com/en-us/powershell/module/microsoft.powershell.core/get-command?view=powershell-7.2)