PowerShell Basics



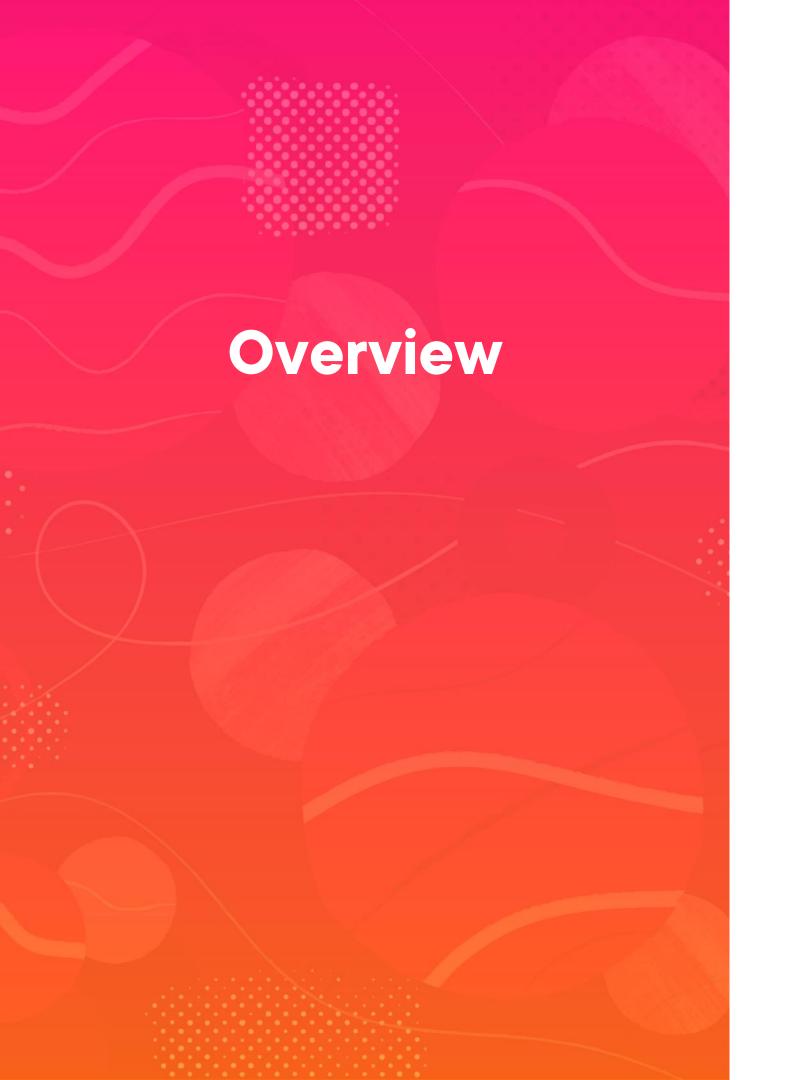
Michael Bender

Content Creator | Community Leader

@Michaelbender | learn.Microsoft.com







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Command basics

Anatomy of a PowerShell command

Help in PowerShell or 3 commands to rule the shell

Other helpful commands and techniques

Command Basics

Verb-Noun

Do something-To something

Get-Verb

PS> Get-Service -Name Spooler -RequiredServices

Parameters

Used to pass information into PowerShell commands

All parameters are called with a dash (-)

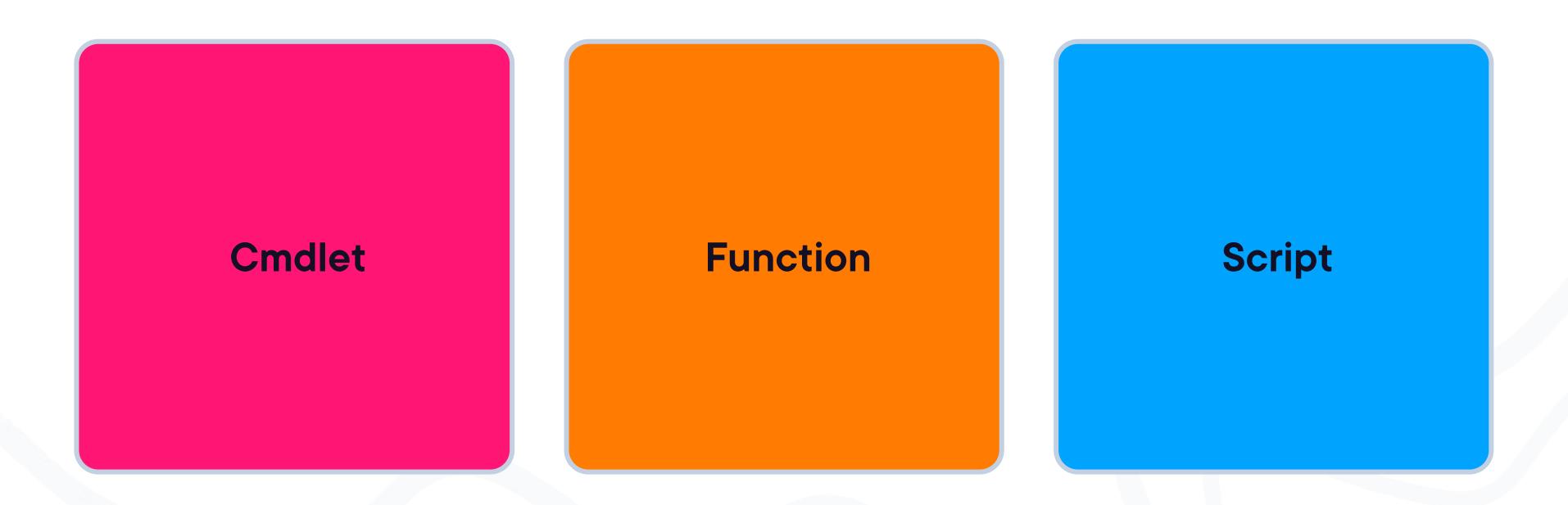
Some require values and some do not





Exploring PowerShell verbs and parameters

Types of Commands in PowerShell





Wildcards are accepted use

PS:> Get-Service -Name P* -ComputerName Client1, Client2

Command name

First parameter

Second Parameter



All parameters start with a dash.

Wildcards are accepted use

PS:> Get-Service -Name P* -ComputerName Client1, Client2

A space separates parameter names and values

Pass multiple values with a commaseparated list



Positional parameters allow the use of the value without the parameter name when used in order

PS:> Gsv P* -Comp Client1, Client2

An alias is a "nickname" for a command

All parameter names can be truncated



Spaces act as separators for parameters and values

PS:> Get-Service -Name B* -ComputerName Client1, Client2

Command name

First parameter

Second Parameter





Demo: Walk through anatomy of command and running basic commands

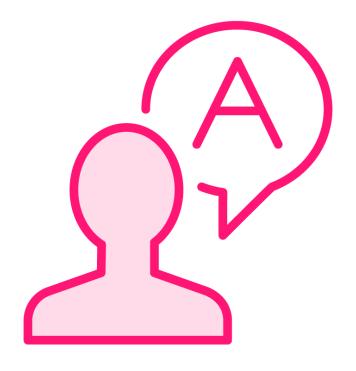


Working with get-history and get-alias

3 Important Commands







Get-Help



Get-Member



PS> Get-Command -Verb Get -Noun *DNS*

PS> Get-Command -Name *Firewall* -CommandType Function

Get-Command

Used to search installed commands



PS> Get-Help -Name Get-Command -Detailed

PS> man -Name Get-Command -Detailed

PS> Help about_command_syntax

PS> Get-Help -Name *DNS*

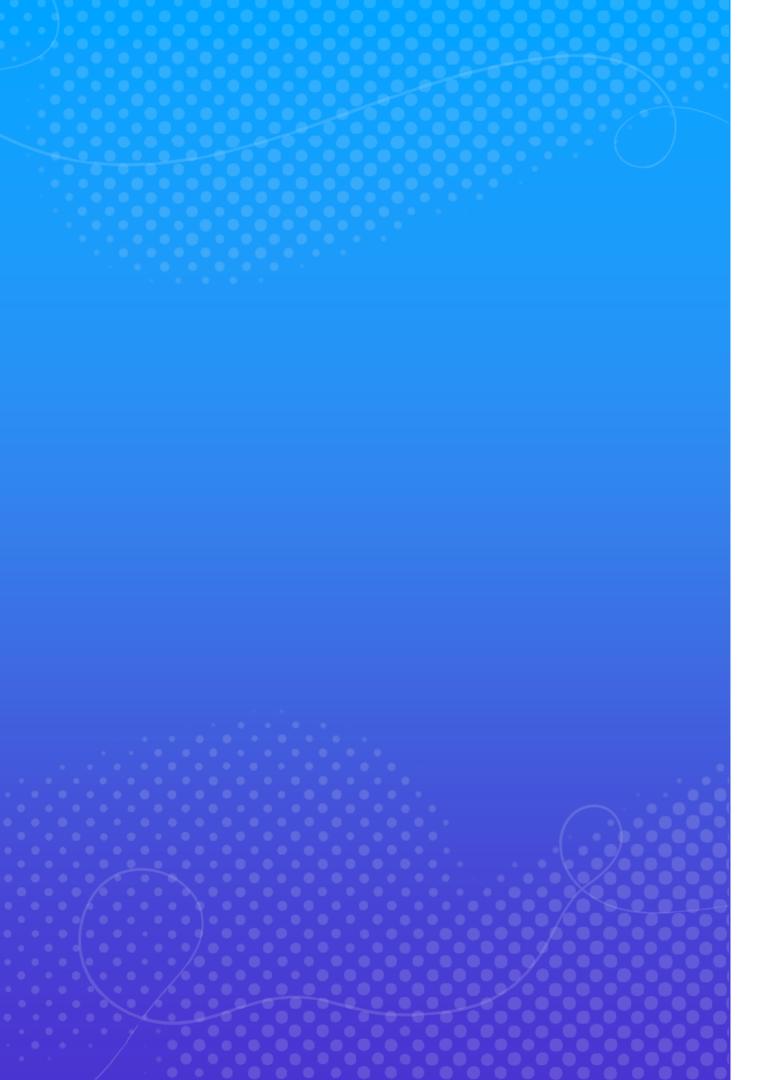
Get-Help

Displays 'how-to' information for commands

Similar to man in UNIX/Linux

Can be used for searching PowerShell commands





Finding answers with PowerShell

- Get-Help
- Get-Command

PS> Get-Service | Get-Member

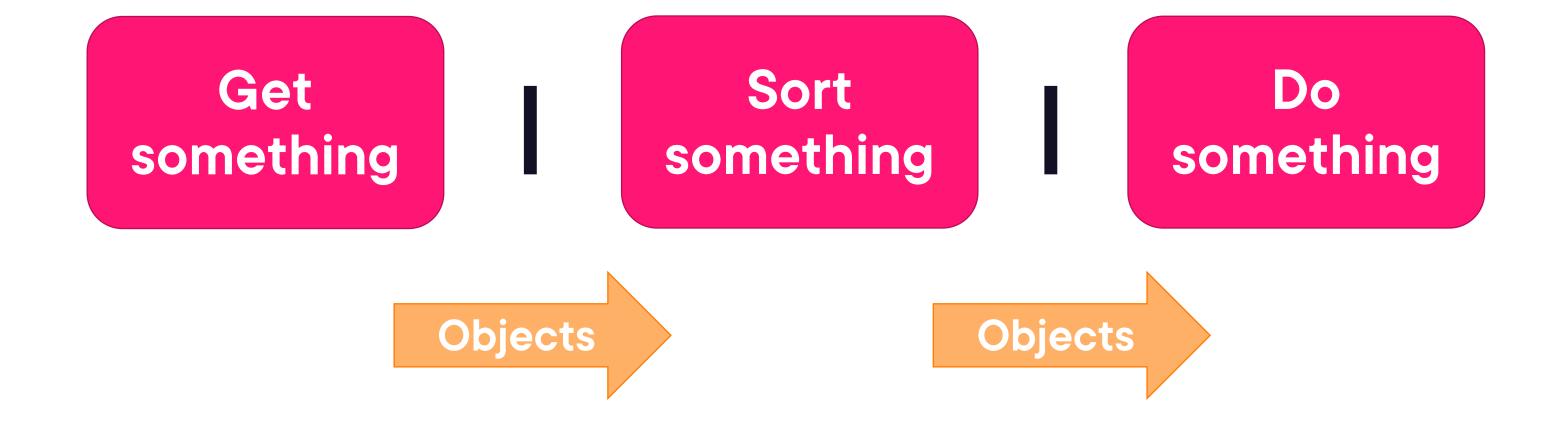
Get-Member

Gets properties and methods of objects

Used to see what makes up an object



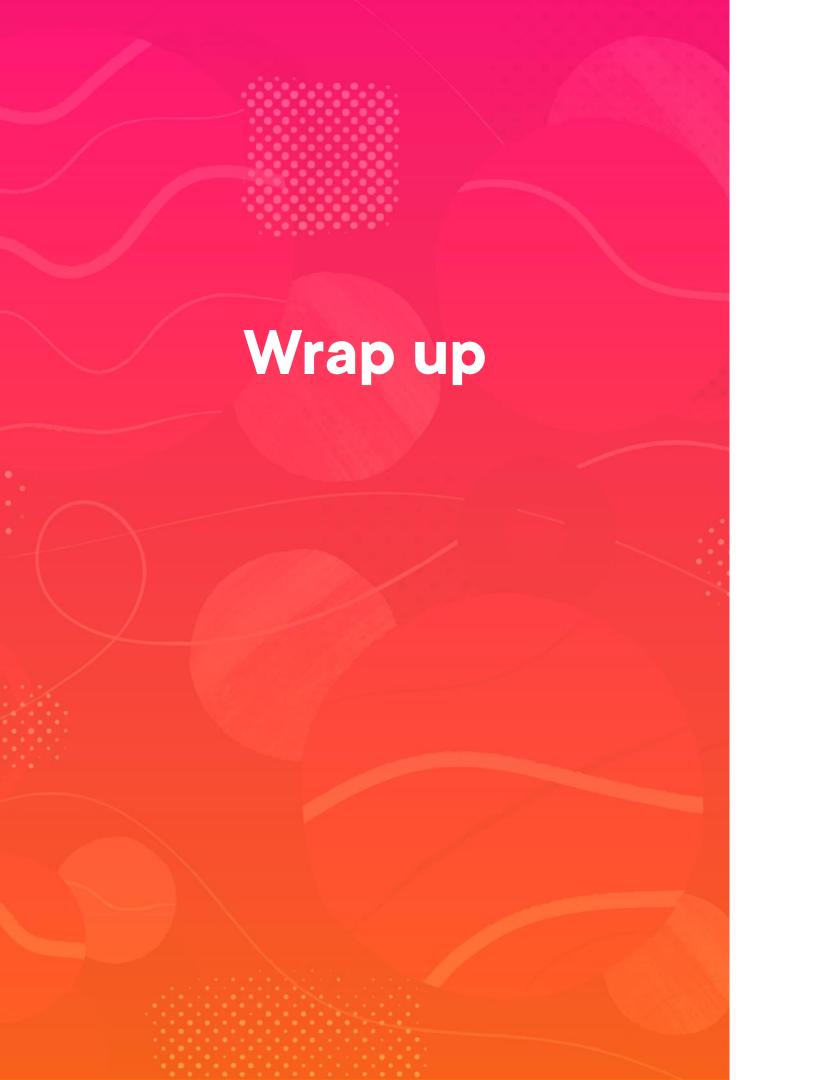
Pipelining in PowerShell



get-service | where-object status -eq "Stopped" | startservice

Pipelining in PowerShell





Find answers with Get-Help and Get-Command

Intro to the pipeline

Up Next:

Working in the pipeline

