PowerShell Basics

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What We'll Cover

Anatomy of a PowerShell command

Help in PowerShell

Other helpful commands and techniques

Objects and the pipeline

Formatting in PowerShell

Command Basics

Verb-Noun

Do something-To something

Get-Verb

```
PS> Get-Service —ComputerName Client01
```

Parameters

Used to pass information into PowerShell commands

All parameters are called with a dash (-)

Common ones include —ComputerName and -File

Demo

Exploring PowerShell verbs

3 Important Commands

Get-Command

Get-Help

Get-Member

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

PS> Get-Command -Name *Fire* -CommandType Function
```

Get-Command

Used to search installed commands

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

PS> man –Name Get-Command –Detailed

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

Demo

Finding answers in the PowerShell console

- Get-Help

- Get-Command

Demo

Documenting your work in the PowerShell console

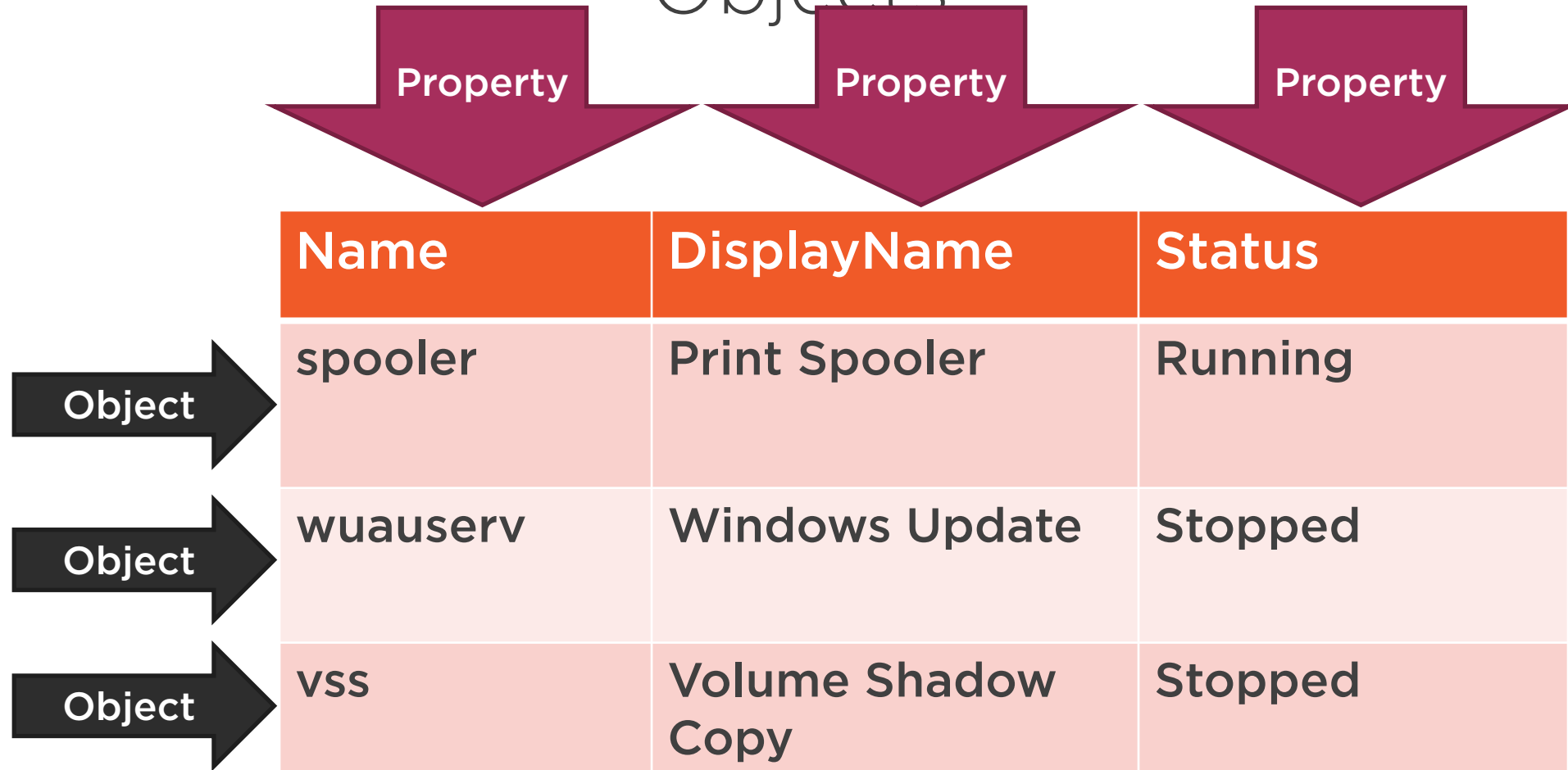Objects Make PowerShell Different

Objects in PowerShell

Not text-based

Contain Properties and Methods

Examples
- Color is red
- Shape is round
- Skin is edible

PowerShell Treats Data as Objects

```
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" | start-
service
```

Pipelining in PowerShell

Demo

Finding object properties with Get-Member

Working with the Pipeline

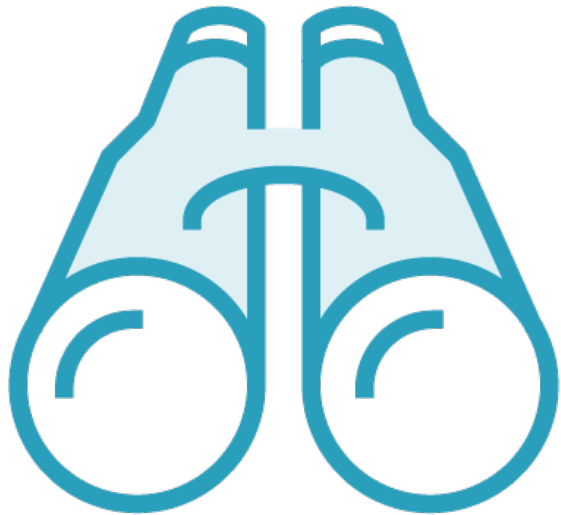# Wrap Up

Syntax

Get-Help

Get-Command

Get-History

Objects and pipelining

Get-Member

Formatting

Next Up

Gathering information with PowerShell