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Installing and Configuring PowerShell 7

In this chapter, we cover the following recipes:

* Install PowerShell 7
* Using PWSH.EXE
* Exploring PowerShell 7 Installation artefacts
* Exploring PowerShell 7 new features
* Building PowerShell 7 profile files
* Installing VS Code
* Installing Cascadia Code font
* Explore PSReadLine
* Installing PowerShell in WSL

# Introduction

PowerShell 7 represents the latest steps in the development of PowerShell. PowerShell, first introduced to the public in 2003, was released as Windows PowerShell V1 in 2006. Over the next decade, Microsoft released multiple versions, ending with PowerShell 5.1. During the development of Windows PowerShell, the product moved from an add-in to Windows to be an integrated feature of Windows. Microsoft plans to support Windows PowerShell 5.;1 for a long time but no new features are likely.

The PowerShell development team began working on an Open Source version of PowerShell, based on the open-source version of .NET Core. The first two versions, PowerShell Core 6.1 and 6.2, represented a proof of concept - you can run the core functions and features of PowerShell across the Windows, Mac, and Linux platforms. But there were quite limited in terms of supporting the rich needs of the IT Pro community - a large number of core Windows Server modules did not work.

With PowerShell 7, the PowerShell team released a version of PowerShell that provided excellent parity with Windows PowerShell. There were a few modules that did not work with PowerShell 7, and a few more that work via a compatibility mechanism described in Chapter 3. PowerShell 7.0 shipped in 2019 and has been followed by version 7.1.

Once you have installed PowerShell 7, you can run it. The command you run to start PowerShell 7 is pwsh.exe (versus powershell.exe for Windows PowerShell 5.1). PowerShell 7 also uses different profile file locations from Windows PowerShell. This means you can use different profile files for Window PowerShell and PowerSHell 7.

The Windows PowerShell Integrates Scripting Environment (ISE) is a tool you use with PowerShell. The ISE, however, is not supported with PowerShell 7. In it’s place is a new tool, Visual Studio Code (VS Code). VS Code is an open source editing project that provides all the features of the ISE and an great deal more.

Microsoft also developed a new font, Cascadia Code, to conincie with the launch of VS Code. This font is a nice improvement over Courrier or other mono-width fonts. All screen shots of working code in this book use this new font.

Before you can discover how to leverage PowerShell 7 in your environment, you need to install i

Before you can begin to administer your Windows Server 2019 infrastructure, you need to create an environment in which you can use PowerShell to carry out the administration.

Blah blah blah

# Installing PowerShell 7

(pipeline chain and ternary)Recipe 2

## Getting Ready

Specific stuff you need to do this recipe

## How to do it...

1. Step by step

## How it works...

1. Screen shots for each step that generates one

## There's more...

1. Some things of interest in this recipe
2. Repeat the recipe structure

# Using PWSH.EXE

This recipe, blah blah

## Getting Ready

Specific stuff you need to do this recipe

## How to do it...

1. Step by step with code:

Get-Package -ProviderName 'msu' |

Select-Object -ExpandProperty Name

1 2 3 4 5 6 7

1234567890123456789012345678901234567890123456789012345678901234567890123

This shows how that the line width for code will be 73 characters.

## How it works...

1. Screen shots for each step that generates one

## There's more...

1. Some things of interest in this recipe

This recipe, blah blah

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# Exploring PowerShell 7 Installation Artifacts

This recipe, blah blah

## Getting Ready

Specific stuff you need to do this recipe

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# Building PowerShell 7 profile files

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Specific stuff you need to do this recipe

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# Installing VS Code

This recipe, blah blah

## Getting Ready

Specific stuff you need to do this recipe

## How to do it...

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## How it works...

1. Screen shots for each step that generates one

## There's more...

1. Some things of interest in this recipe

# Installing Cascadia Code Font

This recipe, blah blah

## Getting Ready

Specific stuff you need to do this recipe

## How to do it...

1. Step by step with code:

Get-Package -ProviderName 'msu' |

Select-Object -ExpandProperty Name

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# Exploring PSReadLine

This recipe, blah blah

## Getting Ready

Specific stuff you need to do this recipe

## How to do it...

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## How it works...

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## There's more...

1. Some things of interest in this recipe

# Installing PowerShell 7 in Windows Subsystem for LInux

This recipe, blah blah

## Getting Ready

Specific stuff you need to do this recipe

## How to do it...

1. Step by step with code:

Get-Package -ProviderName 'msu' |

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