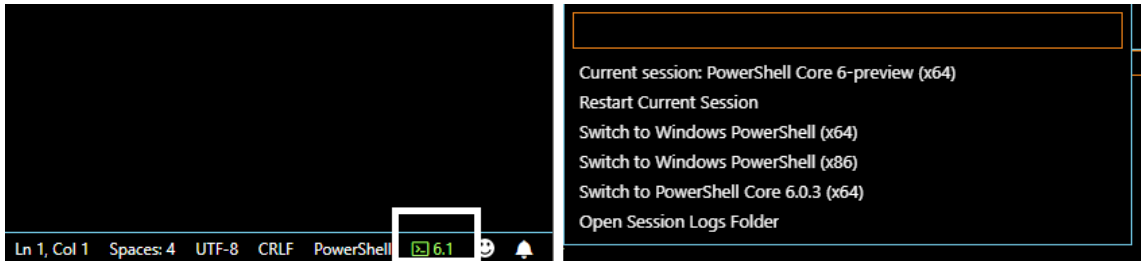


# Chapter 1: Introduction to PowerShell



PC > Local Disk (C:) > Temp > DnsClient\_5696d5ef-fa2d-4997-94f1-0bc13daa2ac5\_en-US\_HelpContent.cab

Name	Size	Type	Date
dnslookup.dll-help.xml	280 KB	XML Source File	21/10/2016 13:52
MSFT_DnsClient.cdxml-help.xml	280 KB	XML Source File	21/10/2016 13:52
MSFT_DnsClientCache.cdxml-help.xml	280 KB	XML Source File	21/10/2016 13:52
MSFT_DnsClientGlobalSetting.cdxml-help.xml	280 KB	XML Source File	21/10/2016 13:52
MSFT_DnsClientServerAddress.cdxml-help.xml	280 KB	XML Source File	21/10/2016 13:52
PS_DnsClientNRPTGlobal_v1.0.0.cdxml-help.xml	280 KB	XML Source File	21/10/2016 13:52
PS_DnsClientNrptPolicy_v1.0.0.cdxml-help.xml	280 KB	XML Source File	21/10/2016 13:52
PS_DnsClientNRPTRule_v1.0.0.cdxml-help.xml	280 KB	XML Source File	21/10/2016 13:52

```
PS> $taskTrigger = New-ScheduledTaskTrigger -Daily
cmdlet New-ScheduledTaskTrigger at command pipeline position 1
Supply values for the following parameters:
At:
```

# Chapter 2: Modules and Snap-ins

The screenshot shows the PowerShell Gallery website with a search for 'IIS'. The search results are filtered to show 17 items. The first three items are:

- Carbon** By: splatteredbits  
Module  
Carbon is a PowerShell module for automating the configuration Windows 7, 8, 2008, and 2012 and automation the installation and configuration of Windows applications, websites, and services. It can configure and manage: \* Local users and groups \* IIS websites, virtual directories, and applications \* File system, registry, and certificate pe... [More information](#)  
**73,880 downloads** Tags .net acl active-directory certificates com compression computer credential cryptography directory dsc dsc-resources encryption environment file-system firewall groups hosts-file http identity iis ini installers ... **Functions** Add-GroupMember Add-IisDefaultDocument Add-TrustedHost Assert-AdminPrivilege Assert-FirewallConfigurable Assert-Service Clear-DscLocalResourceCache Clear-MofAuthoringMetadata Clear-TrustedHost Complete-Job ... **DSC Resources** Carbon\_EnvironmentVariable Carbon\_FirewallRule Carbon\_Group Carbon\_IniFile Carbon\_Permission Carbon\_Privilege Carbon\_ScheduledTask Carbon\_Service
- xWebDeploy** By: PowerShellTeam  
Module  
DSC resources for installing an IIS site using the WebDeploy IIS extension  
**4,461 downloads** Tags DesiredStateConfiguration DSC DSCResourceKit DSCResource DSC Resources xWebDeploy xWebPackageDeploy
- cAspNetIisRegistration** By: rosberghinares  
Module with DSC Resources for ASP.NET IIS registration in Windows versions prior to Windows Server 2012

The screenshot shows a Windows Explorer window with the address bar set to `C:\Program Files\WindowsPowerShell\Modules\PSScriptAnalyzer`. The folder contains two subfolders:

Name	Date modified	Type	Size
1.7.0	23/08/2016 10:15	File folder	
1.8.1	21/11/2016 15:27	File folder	

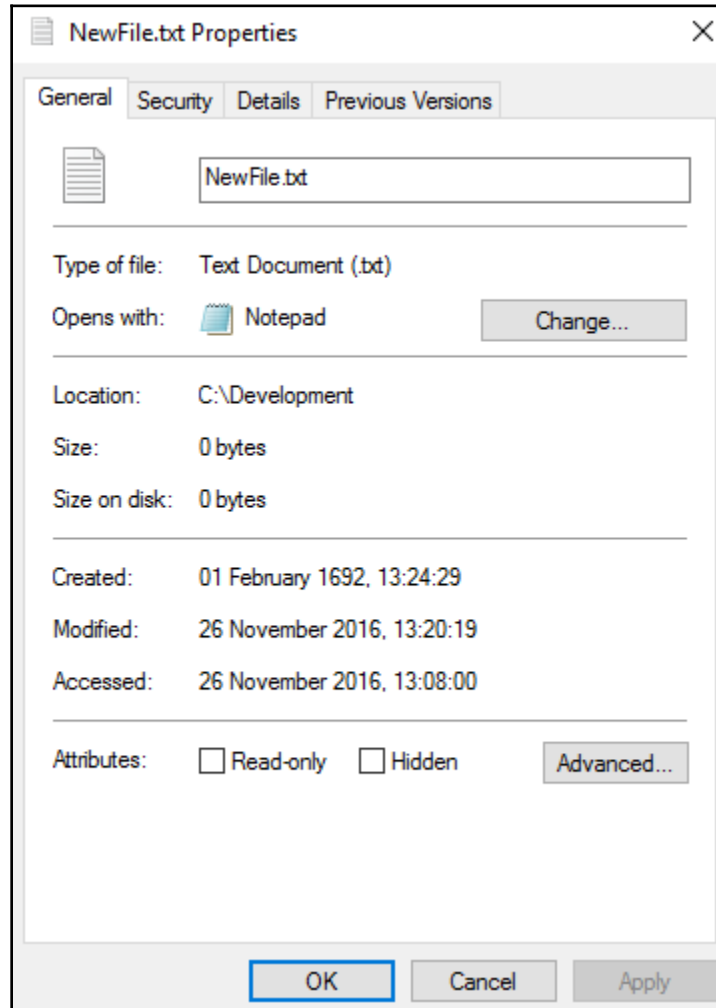
```
PowerShell 6-preview (x64)
PS C:\Users\Chris> $env:psmodulepath -split ';'
C:\Users\Chris\Documents\PowerShell\Modules
C:\Program Files\PowerShell\Modules
c:\program files\powershell\6-preview\Modules
C:\WINDOWS\system32\WindowsPowerShell\v1.0\Modules
C:\Users\Chris\Documents\WindowsPowerShell\Modules
C:\Program Files\WindowsPowerShell\Modules
C:\WINDOWS\system32\WindowsPowerShell\v1.0\Modules\
C:\Program Files\WindowsPowerShell\Modules\
C:\Program Files (x86)\Microsoft SDKs\Azure\PowerShell\ResourceManager\AzureResourceManager\
C:\Program Files (x86)\Microsoft SDKs\Azure\PowerShell\ServiceManagement\
PS C:\Users\Chris>
```

```
PowerShell 6-preview (x64)
PS C:\Users\Chris> Get-WinModule Pester
Name Version Description
-----
Pester 4.4.0 Pester provides a framework for running BDD style Tests to execute and validate PowerShell commands i...
Pester 4.3.1 Pester provides a framework for running BDD style Tests to execute and validate PowerShell commands i...
Pester 4.0.8 Pester provides a framework for running BDD style Tests to execute and validate PowerShell commands i...
Pester 4.0.3 Pester provides a framework for running BDD style Tests to execute and validate PowerShell commands i...
Pester 3.4.0 Pester provides a framework for running BDD style Tests to execute and validate PowerShell commands i...
Pester 3.3.11 Pester provides a framework for running BDD style Tests to execute and validate PowerShell commands i...

PS C:\Users\Chris> Import-WinModule Pester
PS C:\Users\Chris> Get-Module Pester
ModuleType Version Name ExportedCommands
-----
Script 1.0 Pester {Add-AssertionOperator, AfterAll, AfterEach, AfterEachFeat...}
```

---







## Chapter 3: Working with Objects in PowerShell





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# Chapter 7: Working with .NET

## Constructors

	Name	Description
	<a href="#">StringBuilder()</a>	Initializes a new instance of the <code>StringBuilder</code> class.
	<a href="#">StringBuilder(Int32)</a>	Initializes a new instance of the <code>StringBuilder</code> class using the specified capacity.
	<a href="#">StringBuilder(Int32, Int32)</a>	Initializes a new instance of the <code>StringBuilder</code> class that starts with a specified capacity and can grow to a specified maximum.
	<a href="#">StringBuilder(String)</a>	Initializes a new instance of the <code>StringBuilder</code> class using the specified string.
	<a href="#">StringBuilder(String, Int32)</a>	Initializes a new instance of the <code>StringBuilder</code> class using the specified string and capacity.
	<a href="#">StringBuilder(String, Int32, Int32, Int32)</a>	Initializes a new instance of the <code>StringBuilder</code> class from the specified substring and capacity.





	<a href="#">MemoryStream(Byte[])</a>	Initializes a new non-resizable instance of the <code>MemoryStream</code> class based on the specified byte array.
	<a href="#">MemoryStream(Byte[], Boolean)</a>	Initializes a new non-resizable instance of the <code>MemoryStream</code> class based on the specified byte array with the <code>CanWrite</code> property set as specified.

## Properties







	Name	Description
	<a href="#">Capacity</a>	Gets or sets the maximum number of characters that can be contained in the memory allocated by the current instance.
	<a href="#">Chars[Int32]</a>	Gets or sets the character at the specified character position in this instance.
	<a href="#">Length</a>	Gets or sets the length of the current <code>StringBuilder</code> object.
	<a href="#">MaxCapacity</a>	Gets the maximum capacity of this instance.

---

## Methods



	Name	Description
	<a href="#">Append(Boolean)</a>	Appends the string representation of a specified Boolean value to this instance.
	<a href="#">Append(Byte)</a>	Appends the string representation of a specified 8-bit unsigned integer to this instance.
	<a href="#">Append(Char)</a>	Appends the string representation of a specified Char object to this instance.
	<a href="#">Append(Char*, Int32)</a>	Appends an array of Unicode characters starting at a specified address to this instance.

## Properties

	Name	Description
	<a href="#">ASCII</a>	Gets an encoding for the ASCII (7-bit) character set.
	<a href="#">BigEndianUnicode</a>	Gets an encoding for the UTF-16 format that uses the big endian byte order.
	<a href="#">BodyName</a>	When overridden in a derived class, gets a name for the current encoding that can be used with mail agent body tags.
	<a href="#">CodePage</a>	When overridden in a derived class, gets the code page identifier of the current Encoding.
	<a href="#">DecoderFallback</a>	Gets or sets the <a href="#">DecoderFallback</a> object for the current Encoding object.
	<a href="#">Default</a>	Gets an encoding for the operating system's current ANSI code page.






---

## Fields

	Name	Description
	<code>MaxValue</code>	Represents the largest possible value of an <code>Int32</code> . This field is constant.
	<code>MinValue</code>	Represents the smallest possible value of <code>Int32</code> . This field is constant.

## Methods



	Name	Description
	<code>Equals(Object)</code>	Determines whether the specified object is equal to the current object.(Inherited from <code>Object</code> .)
	<code>Finalize()</code>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <code>Object</code> .)
	<code>GetAllNetworkInterfaces()</code>	Returns objects that describe the network interfaces on the local computer.
	<code>GetHashCode()</code>	Serves as the default hash function. (Inherited from <code>Object</code> .)
	<code>GetIPProperties()</code>	Returns an object that describes the configuration of this

---

## Methods



	Name	Description
	<code>ChangeExtension(String, String)</code>	Changes the extension of a path string.
	<code>Combine(String, String)</code>	Combines two strings into a path.
	<code>Combine(String, String, String)</code>	Combines three strings into a path.
	<code>Combine(String, String, String, String)</code>	Combines four strings into a path.
	<code>Combine(String[])</code>	Combines an array of strings into a path.
	<code>GetDirectoryName(String)</code>	Returns the directory information for the specified path string.



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# Chapter 14: Remoting and Remote Management

