Windows PowerShell Get-Help on Cmdlet 'Get-AuthenticodeSignature'

PS:\>Get-HELP Get-AuthenticodeSignature -Full

NAME

Get-AuthenticodeSignature

SYNOPSIS

Gets information about the Authenticode signature for a file.

SYNTAX

Get-AuthenticodeSignature -Content <System.Byte[]> -SourcePathOrExtension <System.String[]> [<CommonParameters>]

Get-AuthenticodeSignature [-FilePath] <System.String[]> [<CommonParameters>]

Get-AuthenticodeSignature -LiteralPath <System.String[]> [<CommonParameters>]

DESCRIPTION

The `Get-AuthenticodeSignature` cmdlet gets information about the Authenticode signature for a file or file content as a byte array. If the file is both embedded

signed and Windows catalog signed, the Windows catalog signature is used. If the file is not signed, the information is

retrieved, but the fields are blank.

PARAMETERS

-Content <System.Byte[]>

Contents of a file as a byte array for which the Authenticode signature is retrieved. This parameter must be used with SourcePathOrExtension parameter. The

contents of the file must be in Unicode (UTF-16LE) format.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-FilePath <System.String[]>

Specifies the path to the file to examine. Wildcards are permitted, but they must lead to a single file. It is not necessary to type FilePath at the command line

when you specify a value for this parameter.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName, ByValue)

Accept wildcard characters? true

-LiteralPath <System.String[]>

Specifies the path to the file being examined. Unlike FilePath , the value of the LiteralPath parameter is used exactly as it is typed. No characters are

interpreted as wildcards. If the path includes an escape character, enclose it in single quotation marks. Single quotation marks tell PowerShell not to interpret

any characters as escape characters.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-SourcePathOrExtension <System.String[]>

Path to the file or file type of the content for which the Authenticode signature is retrieved. This parameter is used with Content where file content is passed

as a byte array.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName, ByValue)

Accept wildcard characters? false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug,

ErrorAction, ErrorVariable, WarningAction, WarningVariable,

OutBuffer, PipelineVariable, and OutVariable. For more information, see

about_CommonParameters (https:/go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

System.String

You can pipe a string that contains a file path to this cmdlet.

OUTPUTS

System.Management.Automation.Signature

This cmdlet returns a signature object for each signature that it gets.

NOTES

For information about Authenticode signatures in PowerShell, see about_Signing (../Microsoft.PowerShell.Core/About/about_Signing.md).

----- Example 1: Get the Authenticode signature for a file -----

Get-AuthenticodeSignature -FilePath "C:\Test\NewScript.ps1"

This command gets information about the Authenticode signature in the NewScript.ps1 file. It uses the FilePath parameter to specify the file.

- Example 2: Get the Authenticode signature for multiple files -

Get-AuthenticodeSignature test.ps1, test1.ps1, sign-file.ps1, makexml.ps1

This command gets information about the Authenticode signature for the four files listed at the command line. In this example, the name of the FilePath parameter,

which is optional, is omitted.

Example 3: Get only valid Authenticode signatures for multiple files

Get-ChildItem $PSHOME*.* | ForEach-object {Get-AuthenticodeSignature $_} | Where-Object {$_.status -eq "Valid"}

This command lists all of the files in the `$PSHOME` directory that have a valid Authenticode signature. The `$PSHOME` automatic variable contains the path to the

PowerShell installation directory.

The command uses the `Get-ChildItem` cmdlet to get the files in the `$PSHOME` directory. It uses a pattern of . to exclude directories (although it also excludes

files without a dot in the filename).

The command uses a pipeline operator (`|`) to send the files in `$PSHOME` to the `ForEach-Object` cmdlet, where `Get-AuthenticodeSignature` is called for each file.

The results of the `Get-AuthenticodeSignature` command are sent to a `Where-Object` command that selects only the signature objects with a status of Valid.

Example 4: Get the Authenticode signature for a file content specified as byte array

```
Get-AuthenticodeSignature -Content (Get-Content foo.ps1 -AsByteStream) -SourcePathorExtension ps1
```

This command gets information about the Authenticode signature for the content of a file. In this example, the file extension is specified along with the content of

the file.

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/microsoft.powershell.security/get-authenticodesignature?view=powershell-5.1&WT.mc_id=ps-gethelp

Get-ExecutionPolicy

Set-AuthenticodeSignature

Set-ExecutionPolicy

about_Execution_Policies

about_Signing