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Windows PowerShell Get-Help on Cmdlet 'Set-StrictMode'

PS:\>Get-HELF	P Set-Strict	Mode -Full
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NAME

Set-StrictMode

SYNOPSIS

Establishes and enforces coding rules in expressions, scripts, and script blocks.

SYNTAX

Set-StrictMode -Off [<CommonParameters>]

Set-StrictMode -Version <System.Version> [<CommonParameters>]

DESCRIPTION

The `Set-StrictMode` cmdlet configures strict mode for the current scope and all child scopes, and turns it on and off.

When strict mode is on, PowerShell generates a

terminating error when the content of an expression, script, or script block violates basic best-practice coding rules.

Use the Version parameter to determine the coding rules to enforce.

`Set-PSDebug -Strict` cmdlet turns on strict mode for the global scope. `Set-StrictMode` affects only the current scope

and its child scopes. Then, you can use it in

a script or function to override the setting inherited from the global scope.

When `Set-StrictMode` is off, PowerShell has the following behaviors:

- Uninitialized variables are assumed to have a value of `0` (zero) or `\$Null`, depending on type

- References to non-existent properties return `\$Null`

- Results of improper function syntax vary with the error conditions

- Attempting to retrieve a value using an invalid index in an array returns `\$Null`

PARAMETERS

-Off <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet turns strict mode off for the current scope and all child scopes.

Required? true

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Version <System. Version>

Specifies the conditions that cause an error in strict mode. This parameter accepts any valid PowerShell version

number. Any number higher than `3` is treated as

`Latest`. The value supplied must be the string `Latest` or a string that can be converted to a System. Version type. The

version must match a valid release

version of PowerShell.

- `1.0` - Prohibits references to uninitialized variables, except for uninitialized variables in strings. - `2.0` - Prohibits

references to uninitialized

variables. This includes uninitialized variables in strings. - Prohibits references to non-existent properties of an

object. - Prohibits function calls

that use the syntax for calling methods. - `3.0` - Prohibits references to uninitialized variables. This includes

uninitialized variables in strings. -

Prohibits references to non-existent properties of an object. - Prohibits function calls that use the syntax for calling

methods. - Prohibit out of bounds or

unresolvable array indexes. - `Latest` - Selects the latest version available. The latest version is the most strict. Use

this value to make sure that

scripts use the strictest available version, even when new versions are added to PowerShell.

> [!CAUTION] > Using `Latest` for Version in scripts isn't deterministic. The meaning of `Latest` can change > in new

releases of PowerShell. A script written for

an older version of PowerShell that uses > `Set-StrictMode -Version Latest` is subject to more restrictive rules when

run in a newer version > of PowerShell.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug,

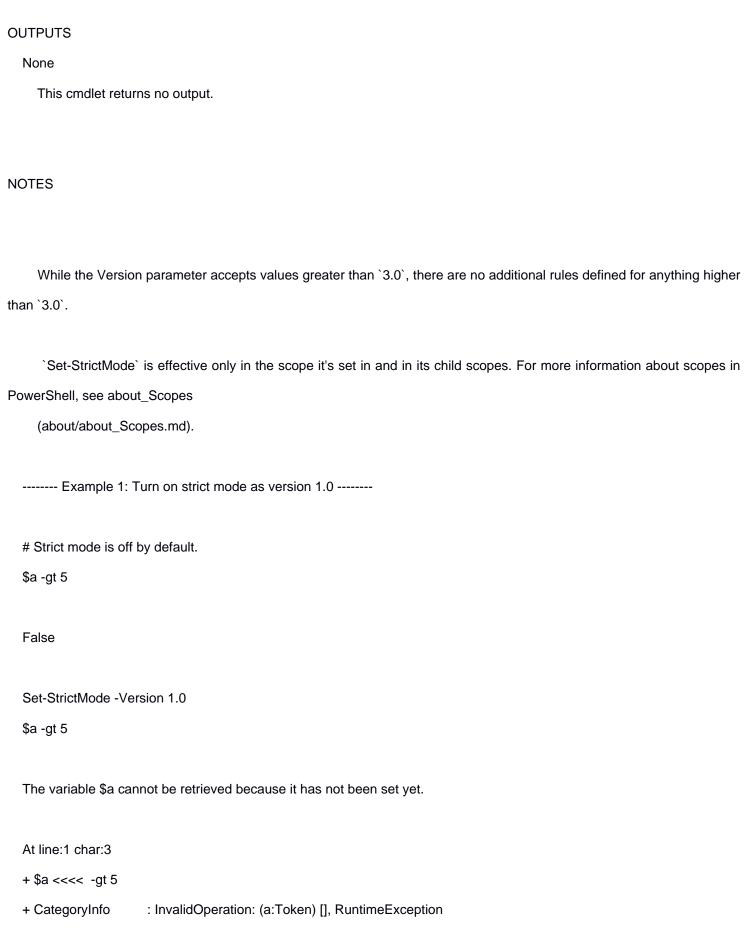
ErrorAction, ErrorVariable, WarningAction, WarningVariable,

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

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

INPUTS

None



+ FullyQualifiedErrorld: VariableIsUndefined

With strict mode set to version `1.0`, attempts to reference variables that aren't initialized fail.

----- Example 2: Turn on strict mode as version 2.0 ------

```
# Strict mode is off by default.
```

```
function add ($a, $b) {
  $a = ' + $a
  '$b = ' + $b
  $a+$b = ' + ($a + $b)
}
add 3 4
$a = 3
b = 4
a+b = 7
add(3,4)
$a = 34
b =
a+b = 34
Set-StrictMode -Version 2.0
```

add(3,4)

The function or command was called like a method. Parameters should be separated by spaces, as described in 'Get-Help about_Parameter.'

```
At line:1 char:4
+ add <<<< (3,4)
+ CategoryInfo : InvalidOperation: (:) [], RuntimeException
+ FullyQualifiedErrorId : StrictModeFunctionCallWithParens
```

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```
$string = "This is a string."
  $null -eq $string.Month
  True
  Set-StrictMode -Version 2.0
  $string = "This is a string."
  $null -eq $string.Month
  Property 'Month' cannot be found on this object; make sure it exists.
  At line:1 char:9
  + $string. <<<< month
                       : InvalidOperation: (.:OperatorToken) [], RuntimeException
  + CategoryInfo
  + FullyQualifiedErrorld : PropertyNotFoundStrict
  This command turns strict mode on and sets it to version `2.0`. As a result, PowerShell returns an error if you use method
syntax, which uses parentheses and commas,
  for a function call or reference uninitialized variables or non-existent properties.
  The sample output shows the effect of version `2.0` strict mode.
  Without version `2.0` strict mode, the `(3,4)` value is interpreted as a single array object to which nothing is added. With
version `2.0` strict mode, it's correctly
  interpreted as faulty syntax for submitting two values.
  Without version `2.0`, the reference to the non-existent Month property of a string returns only `$Null`. With version `2.0`,
it's interpreted correctly as a
  reference error.
  ----- Example 3: Turn on strict mode as version 3.0 ------
  # Strict mode is off by default.
  a = 0(1)
```

\$null -eq \$a[2]

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