



python



PowerShell

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PowerShell Get-Help on command 'ConvertFrom-Json'

PS C:\Users\wahid> Get-Help ConvertFrom-Json

NAME

ConvertFrom-Json

SYNOPSIS

Converts a JSON-formatted string to a custom object.

SYNTAX

```
ConvertFrom-Json [-InputObject] <System.String> [<CommonParameters>]
```

DESCRIPTION

The `ConvertFrom-Json` cmdlet converts a JavaScript Object Notation (JSON) formatted string to a custom PObject or Hashtable object that has a property for each field in the JSON string. JSON is commonly used by web sites to provide a textual representation of objects. The cmdlet adds the properties to the new object as it processes each line of the JSON string.

The JSON standard allows duplicate key names, which are prohibited in PObject and Hashtable types. For example, if the JSON string contains duplicate keys, only the last key is used by this cmdlet. See other examples below.

To generate a JSON string from any object, use the ``ConvertTo-Json`` cmdlet.

This cmdlet was introduced in PowerShell 3.0.

> [!NOTE] > Beginning with PowerShell 6, the cmdlet supports JSON with comments. JSON comments start with two > forward slashes (`//`) characters. JSON comments aren't captured in the objects output by the `>` cmdlet. Prior to PowerShell 6, ``ConvertFrom-Json`` would return an error when it encountered a JSON > comment.

PARAMETERS

`-InputObject <System.String>`

Specifies the JSON strings to convert to JSON objects. Enter a variable that contains the string, or type a command or expression that gets the string. You can also pipe a string to ``ConvertFrom-Json``.

The `InputObject` parameter is required, but its value can be an empty string. When the input object is an empty string, ``ConvertFrom-Json`` doesn't generate any output. The `InputObject` value can't be ``$null``.

`<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>).

---- Example 1: Convert a `DateTime` object to a JSON object ----

```
Get-Date | Select-Object -Property * | ConvertTo-Json | ConvertFrom-Json
```

DateTime : Friday, January 13, 2012 8:06:31 PM
Date : 1/13/2012 8:00:00 AM
Day : 13
DayOfWeek : 5
DayOfYear : 13
Hour : 20
Kind : 2
Millisecond : 400
Minute : 6
Month : 1
Second : 31
Ticks : 634620819914009002
TimeOfDay : @{Ticks=723914009002; Days=0; Hours=20; Milliseconds=400;
Minutes=6; Seconds=31; TotalDays=0.83786343634490734;
TotalHours=20.108722472277776; TotalMilliseconds=72391400.900200009;
TotalMinutes=1206.5233483366667; TotalSeconds=72391.4009002}
Year : 2012

The example uses the `Select-Object` cmdlet to get all of the properties of the `Date` object. It uses the `ConvertTo-Json` cmdlet to convert the `Date` object to a string formatted as a JSON object and the `ConvertFrom-Json` cmdlet to convert the JSON-formatted string to a `PSCustomObject` object.

Example 2: Get JSON strings from a web service and convert them to PowerShell objects

```
# Ensures that Invoke-WebRequest uses TLS 1.2
[Net.ServicePointManager]::SecurityProtocol = [Net.SecurityProtocolType]::Tls12
$j = Invoke-WebRequest
'https://api.github.com/repos/PowerShell/PowerShell/issues' | ConvertFrom-Json
```

You can also use the `Invoke-RestMethod` cmdlet, which automatically converts JSON content to objects.

----- Example 3: Convert a JSON string to a custom object -----

```
Get-Content -Raw JsonFile.JSON | ConvertFrom-Json
```

The command uses `Get-Content` cmdlet to get the strings in a JSON file. The `Raw` parameter returns the whole file as a single JSON object. Then it uses the pipeline operator to send the delimited string to the `ConvertFrom-Json` cmdlet, which converts it to a custom object.`

REMARKS

To see the examples, type: "get-help ConvertFrom-Json -examples".

For more information, type: "get-help ConvertFrom-Json -detailed".

For technical information, type: "get-help ConvertFrom-Json -full".

For online help, type: "get-help ConvertFrom-Json -online"