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PowerShell

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PowerShell Get-Help on command 'Get-PnpDeviceProperty'

PS C:\Users\wahid> Get-Help Get-PnpDeviceProperty

NAME

Get-PnpDeviceProperty

SYNOPSIS

Gets detailed properties for a PnP device.

SYNTAX

```
Get-PnpDeviceProperty [[-KeyName] <String[]>] [-AsJob] [-CimSession  
<CimSession[]>] [-Confirm] -InputObject <CimInstance[]> [-ThrottleLimit  
<Int32>] [-WhatIf] [<CommonParameters>]
```

```
Get-PnpDeviceProperty [[-KeyName] <String[]>] [-AsJob] [-CimSession  
<CimSession[]>] [-Confirm] -InstanceId <String[]> [-ThrottleLimit <Int32>]  
[-WhatIf] [<CommonParameters>]
```

DESCRIPTION

The Get-PnpDeviceProperty cmdlet gets detailed properties for a Plug and Play (PnP) device. You can specify a device by instance ID or by using the Get-PnpDevice cmdlet.

A device property is a key-value pair. A property key takes the form {GUID} PID. The property value is one of several types, such as UTF-8 , GUID , Uint32 , or Boolean . The output object contains the typed data of a value, and the value type. Many properties also have friendly names, in the form of DEVPKEY_XXX.

PARAMETERS

-AsJob [<SwitchParameter>]

Runs the cmdlet as a background job. Use this parameter to run commands that take a long time to complete.

-CimSession <CimSession[]>

Runs the cmdlet in a remote session or on a remote computer. Enter a computer name or a session object, such as the output of a New-CimSession (<https://go.microsoft.com/fwlink/p/?LinkId=227967>) or [Get-CimSession](<https://go.microsoft.com/fwlink/p/?LinkId=227966>)cmdlet. The default is the current session on the local computer.

-Confirm [<SwitchParameter>]

Prompts you for confirmation before running the cmdlet.

-InputObject <CimInstance[]>

Specifies the input object that is used in a pipeline command.

-InstanceId <String[]>

Specifies an array of unique instance ID of devices.

-KeyName <String[]>

Specifies an array of key names.

-ThrottleLimit <Int32>

Specifies the maximum number of concurrent operations that can be established to run the cmdlet. If this parameter is omitted or a value of `0` is entered, then Windows PowerShell calculates an optimum throttle limit for the cmdlet based on the number of CIM cmdlets that are running on the computer. The throttle limit applies only to the current cmdlet, not to the session or to the computer.

`-WhatIf [<SwitchParameter>]`

Shows what would happen if the cmdlet runs. The cmdlet is not run.

`<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: Get properties for a device by using an ID ----

```
PS C:\>Get-PnpDeviceProperty -InstanceId
'SWD\PRINTENUM\{E82E5EFD-6616-4E4F-9A96-7D94554A8BF0}'
InstanceId KeyName                Type      Data
-----
SWD\PRI... DEVPKEY_Device_DeviceDesc      String    Local Print
Queue
SWD\PRI... DEVPKEY_Device_HardwareIds      StringList
{PRINTENUM\LocalPrintQueue}
SWD\PRI... DEVPKEY_Device_CompatibleIds    StringList
{GenPrintQueue, SWD\GenericRaw, SWD\Generic}
SWD\PRI... DEVPKEY_Device_Class            String    PrintQueue

SWD\PRI... DEVPKEY_Device_ClassGuid        Guid
```

```
{1ED2BBF9-11F0-4084-B21F-AD83A8E6DCDC}
```

...

This command gets the PnP device properties for the device that has the specified ID.

- Example 2: Get properties for a device by using the pipeline -

```
PS C:\>Get-PnpDevice -InstanceId
```

```
'SWD\PRINTENUM\{E82E5EFD-6616-4E4F-9A96-7D94554A8BF0}' | Get-PnpDeviceProperty
```

| InstanceId | KeyName | Type | Data |
|------------|------------------------------|------------|--|
| SWD\PRI... | DEVPKEY_Device_DeviceDesc | String | Local Print Queue |
| SWD\PRI... | DEVPKEY_Device_HardwareIds | StringList | {PRINTENUM\LocalPrintQueue} |
| SWD\PRI... | DEVPKEY_Device_CompatibleIds | StringList | {GenPrintQueue, SWD\GenericRaw, SWD\Generic} |
| SWD\PRI... | DEVPKEY_Device_Class | String | PrintQueue |
| SWD\PRI... | DEVPKEY_Device_ClassGuid | Guid | {1ED2BBF9-11F0-4084-B21F-AD83A8E6DCDC} |

...

This command uses the Get-PnpDevice cmdlet to get the PnP device that has the specified ID. The command passes that object to the current cmdlet by using the pipeline operator. The current command gets the device properties for that device.

----- Example 3: Get properties by using GUID-ID pairs -----

```
PS C:\>Get-PnpDeviceProperty -KeyName '{A45C254E-DF1C-4EFD-8020-67D146A850E0}'  
2, '{A45C254E-DF1C-4EFD-8020-67D146A850E0} 10',
```

```
{4340A6C5-93FA-4706-972C-7B648008A5A7} 3' -InstanceId
'SWD\PRINTENUM\{E82E5EFD-6616-4E4F-9A96-7D94554A8BF0}'
```

| InstanceID | KeyName | Type | Data |
|------------|----------------------------|--------|--|
| SWD\PRI... | DEVPKEY_Device_DeviceDesc | String | Local Print Queue |
| SWD\PRI... | DEVPKEY_Device_ClassGuid | Guid | {1ED2BBF9-11F0-4084-B21F-AD83A8E6DCDC} |
| SWD\PRI... | DEVPKEY_Device_ProblemCode | UInt32 | 0 |

This command gets some of the properties of the PnP device that has the specified instance ID. The command specifies three key names of properties to get. The command specifies names as GUID-ID pairs.

----- Example 4: Get properties by using DEVPKEY names -----

```
PS C:\>Get-PnpDeviceProperty -KeyName 'DEVPKEY_Device_DeviceDesc',
'DEVPKEY_Device_ClassGuid', 'DEVPKEY_Device_ProblemCode' -InstanceId
'SWD\PRINTENUM\{E82E5EFD-6616-4E4F-9A96-7D94554A8BF0}'
```

| InstanceID | KeyName | Type | Data |
|------------|----------------------------|--------|--|
| SWD\PRI... | DEVPKEY_Device_DeviceDesc | String | Local Print Queue |
| SWD\PRI... | DEVPKEY_Device_ClassGuid | Guid | {1ED2BBF9-11F0-4084-B21F-AD83A8E6DCDC} |
| SWD\PRI... | DEVPKEY_Device_ProblemCode | UInt32 | 0 |

This command gets some of the properties of the PnP device that has the specified instance ID. The command specifies three key names of properties to get. The command specifies names as DEVPKEY short names.

REMARKS

To see the examples, type: "get-help Get-PnpDeviceProperty -examples".

For more information, type: "get-help Get-PnpDeviceProperty -detailed".

For technical information, type: "get-help Get-PnpDeviceProperty -full".

For online help, type: "get-help Get-PnpDeviceProperty -online"