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pnputil.exe

- >>> File Path: C:\Windows\system32\pnputil.exe
- >>> Description: Microsoft PnP Utility Tool to add, delete, export, and enumerate driver packages.

Hashes

Туре	Hash
MD5	60EDC5E6BDBAEE441F2E3AEACD0340D2
SHA1	B00E025A7B9B94EA59358E0C543522461CCFCC85
SHA256	25EFA393011172FBDEDB60B362C82DD5B026B9EDFACCAC77AD4C60DB1E1E79C6
SHA384	7ED7121DBBC16D5E0852A2E14031437CCCC6193D27DD8FB36ABAC47763E2DCA010D27F6EA4A2A2DB50C2C9F953E14F90
SHA512	65ACBDB36FF96D62CE8F1D0073981D442758850A10E3BBF0EB024C25C5B1E8E4943C6CB60F4F200D1C438A0BC79634B1DE9B39DCA07F1C4FD709936C39828F71
SSDEEP	3072:JbAQqwEJjHN2N7191mTiQxXoUXsvfK/pgS/FHHrAuSGHZpzrqAXaG/3yy:Jbfqw4jHg7z1mTHXoUjiSVHsiKA9

Runtime Data

Usage (stdout):

```
Microsoft PnP Utility
PNPUTIL [/add-driver <...> | /delete-driver <...> |
         /export-driver <...> | /enum-drivers |
         /enum-devices [<...>] | /enum-interfaces [<...>] |
         /disable-device <...> | /enable-device <...> |
         /restart-device <...> | /remove-device <...> |
         /scan-devices [<...>] | /?]
Commands:
  /add-driver <filename.inf | *.inf> [/subdirs] [/install] [/reboot]
    Add driver package(s) into the driver store.
      /subdirs - traverse sub directories for driver packages.
      /install - install/update drivers on any matching devices.
    Examples:
      Add driver package:
        pnputil /add-driver x:\driver.inf
      Add multiple driver packages:
        pnputil /add-driver c:\oem\*.inf
      Add and install driver package:
        pnputil /add-driver device.inf /install
  /delete-driver <oem#.inf> [/uninstall] [/force] [/reboot]
    Delete driver package from the driver store.
      /uninstall - uninstall driver package from any devices using it.
      /force - delete driver package even when it is in use by devices.
      /reboot - reboot system if needed to complete the operation.
```

```
Examples:
   Delete driver package:
     pnputil /delete-driver oem0.inf
    Force delete driver package:
      pnputil /delete-driver oem1.inf /force
/export-driver <oem#.inf | *> <target directory>
  Export driver package(s) from the driver store into a target directory.
  Examples:
    Export driver package:
     pnputil /export-driver oem6.inf .
    Export all driver packages:
      pnputil /export-driver * c:\backup
/enum-drivers
  Enumerate all 3rd party driver packages in the driver store.
  Examples:
    Enumerate all OEM driver packages:
      pnputil /enum-drivers
/disable-device <instance ID> [/reboot]
  Disable devices on the system.
    /reboot - reboot system if needed to complete the operation.
  Examples:
    Disable device:
      pnputil /disable-device "USB\VID_045E&PID_00DB\6&870CE29&0&1"
/enable-device <instance ID> [/reboot]
  Enable devices on the system.
    /reboot - reboot system if needed to complete the operation.
  Examples:
    Enable device:
      pnputil /enable-device "USB\VID_045E&PID_00DB\6&870CE29&0&1"
/restart-device <instance ID> [/reboot]
  Restart devices on the system.
    /reboot - reboot system if needed to complete the operation.
  Examples:
    Restart device:
      pnputil /restart-device "USB\VID_045E&PID_00DB\6&870CE29&0&1"
/remove-device <instance ID> [/subtree] [/reboot]
  Attempt to remove a device from the system.
    /subtree - remove entire device subtree, including any child devices.
    /reboot - reboot system if needed to complete the operation.
  Examples:
    Remove device:
      pnputil /remove-device "USB\VID_045E&PID_00DB\6&870CE29&0&1"
/scan-devices [/instanceid <instance ID>] [/async]
  Scan the system for any device hardware changes.
    /instanceid <instance ID> - scan device subtree for changes.
```

```
/async - scan for changes asynchronously.
  Examples:
    Scan devices:
      pnputil /scan-devices
/enum-devices [/connected | /disconnected] [/instanceid <instance ID>]
              [/class <name | GUID>] [/problem [<code>]] [/ids] [/relations]
              [/drivers]
  Enumerate all devices on the system.
    /connected | /disconnected - filter by connected devices or
                                 filter by disconnected devices.
    /instanceid <instance ID> - filter by device instance ID.
    /class <name | GUID> - filter by device class name or GUID.
    /problem [<code>] - filter by devices with problems or
                        filter by specific problem code.
    /ids - display hardware IDs and compatible IDs.
    /relations - display parent and child device relations.
    /drivers - display matching and installed drivers.
  Examples:
    Enumerate only connected devices on the system:
      pnputil /enum-devices /connected
    Enumerate device with specific instance ID:
      pnputil /enum-devices /instanceid "ACPI\PNP0A08\1"
    Enumerate all devices with specific class:
      pnputil /enum-devices /class Display
      pnputil /enum-devices /class {4d36e97d-e325-11ce-bfc1-08002be10318}
    Enumerate all devices with specific problem code:
      pnputil /enum-devices /problem 28
      pnputil /enum-devices /problem 0xA
    Enumerate all devices with problems and display hardware/compatible IDs:
      pnputil /enum-devices /problem /ids
/enum-interfaces [/enabled | /disabled] [/class <GUID>]
  Enumerate all device interfaces on the system.
    /enabled | /disabled - filter by enabled interfaces or
                           filter by disabled interfaces.
    /class <GUID> - filter by interface class GUID.
  Examples:
    Enumerate only enabled interfaces on the system:
      pnputil /enum-interfaces /enabled
    Enumerate all interfaces with specific interface class GUID:
      pnputil /enum-interfaces /class {884b96c3-56ef-11d1-bc8c-00a0c91405dd}
  Show usage screen.
```

Loaded Modules:

Path
C:\\Vindows\

C:\Windows\System32\KERNEL32.DLL

C:\Windows\System32\KERNELBASE.dll

 $C:\Windows\SYSTEM32\ntdll.dll\\$

C:\Windows\system32\pnputil.exe

Signature

- >> Status: Signature verified.
- >> Serial: 330000026551AE1BBD005CBFBD0000000000265
- >>> Thumbprint: E168609353F30FF2373157B4EB8CD519D07A2BFF
- >>> Issuer: CN=Microsoft Windows Production PCA 2011, O=Microsoft Corporation, L=Redmond, S=Washington, C=US
- >>> Subject: CN=Microsoft Windows, O=Microsoft Corporation, L=Redmond, S=Washington, C=US

File Metadata

- >> Original Filename: pnputil.exe.mui
- >>> Product Name: Microsoft Windows Operating System
- >> Company Name: Microsoft Corporation
- >>> File Version: 10.0.19041.1 (WinBuild.160101.0800)
- >> Product Version: 10.0.19041.1
- >> Language: English (United States)
- >>> Legal Copyright: Microsoft Corporation. All rights reserved.

Possible Misuse

The following table contains possible examples of pnputil.exe being misused. While pnputil.exe is **not** inherently malicious, its legitimate functionality can be abused for malicious purposes.

Source	Source File	Example	License
<u>sigma</u>	proc creation win lolbins suspicious driver installed by pnputil.yml	title: Suspicious Driver Install by pnputil.exe	<u>DRL 1.0</u>
<u>sigma</u>	proc creation win lolbins suspicious driver installed by pnputil.yml	description: Detects when a possible suspicious driver is being installed via pnputil.exe lolbin	DRL 1.0
<u>sigma</u>	proc creation win lolbins suspicious driver installed by pnputil.yml	- https://docs.microsoft.com/en-us/windows- hardware/drivers/devtest/pnputil-command-syntax	<u>DRL 1.0</u>
<u>sigma</u>	proc creation win lolbins suspicious driver installed by pnputil.yml	- https://strontic.github.io/xcyclopedia/library/pnputil.exe-60EDC5E6BDBAEE441F2E3AEACD0340D2.html	<u>DRL 1.0</u>
<u>sigma</u>	proc creation win lolbins suspicious driver installed by pnputil.yml	- '\pnputil.exe'	<u>DRL 1.0</u>
<u>sigma</u>	proc creation win lolbins suspicious driver installed by pnputil.yml	- Pnputil.exe being used may be performed by a system administrator.	DRL 1.0
<u>sigma</u>	proc creation win lolbins suspicious driver installed by pnputil.yml	- Pnputil.exe being executed from unfamiliar users should be investigated. If known behavior is causing false positives, it can be exempted from the rule.	<u>DRL 1.0</u>
LOLBAS	Pnputil.yml	Name: Pnputil.exe	
LOLBAS	Pnputil.yml	- Command: pnputil.exe -i -a C:\Users\hai\Desktop\mo.inf	
<u>LOLBAS</u>	Pnputil.yml	- Path: C:\Windows\system32\pnputil.exe	

Additional Info*

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pnputil

Pnputil.exe is a command line utility that you can use to manage the driver store. You can use this command to add driver packages, remove driver packages, and list driver packages that are in the store.

Syntax

```
pnputil.exe [-f | -i] [ -? | -a | -d | -e ] <INF name>
```

Parameters

Parameter	Description
-a	Specifies to add the identified INF file.
-d	Specifies to delete the identified INF file.
-e	Specifies to enumerate all third-party INF files.
-f	Specifies to force the deletion of the identified INF file. Can't be used in conjunction with the â€"i parameter.
-i	Specifies to install the identified INF file. Can't be used in conjunction with the -f parameter.
/?	Displays help at the command prompt.

Examples

To add an INF file, named USBCAM.INF, type:

```
pnputil.exe -a a:\usbcam\USBCAM.INF
```

To add all INF files, located in c:\drivers, type:

```
pnputil.exe -a c:\drivers\*.inf
```

To add and install the USBCAM.INF driver, type:

```
pnputil.exe -i -a a:\usbcam\USBCAM.INF
```

To enumerate all third-party drivers, type:

```
pnputil.exe –e
```

To delete the INF file and driver named oem0.inf, type:

```
pnputil.exe -d oem0.inf
```

Additional References

- >> Command-Line Syntax Key
- >> popd command

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```