



# Stats from Hunting Cobalt Strike Beacons

Some Statistics on Cobalt Strike Configs in April and May 2021





svch0st · Follow


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Collected from over 1000 configurations, here are some high-level statistics that demonstrate some of the common trends among one of the most popular tools in an adversary’s arsenal. These configs were collected from live servers around early May 2021.

If you are interested in how the data was collected, scroll to the bottom of the article. *Also if you just want the raw data here is a [link](#).*

If you want to read more about how the configurations are structured in Cobalt Strike payloads his article is a good start:

**Cobalt Strike Staging and Extracting Configuration Information**

By default Cobalt Strike exposes its stager shellcode via a valid checksum8 request (the same request format used in...



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Unsurprisingly most common watermark was 0. The watermark of 0 is in the configuration file of Cobalt Strike, and the watermark of 1359593325, and 1580103814, all had configuration counts above 100.

The watermark 305419896 has been associated with the Maze ransomware:

**Enter the Maze: Demystifying an Affiliate Involved in Maze (SNOW) - SentinelLabs**

By Jason Reaves and Joshua Platt Maze continues to be one of the most dangerous and actively developed ransomware...

labs.sentinelone.com

### User Agents

Besides the standard user agents imitating web browsers, several configurations had the user agent of “Shockwave Flash”

### Interesting URI

The more standard URIs of */submit.php* and */jquery-3.3.2.min.js* were the most common but this one stood out to me:

- /r/webdev/comments/95lyr/slow\_loading\_of\_google*

### Most common process spawn targets

The default values of rundll32.exe were the most common.

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- %windir%\syswow64\backgroundtaskhost.exe
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- %windir%\sysnative\adobe64.exe

. . .

## How I collected the Data

I used 2 main queries to get as many C2 IPs as quickly as possible.

- RiskIQ prebuild component to search for Cobalt Strike (requires a free account) (~8k IPs)
- A search on JARM hashes that I had found in a recent case (~10k IPs):

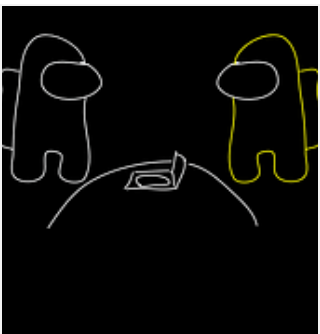
JARMFuzzy: 07d14d16d21d21d07c42d41d00041d

If you want to learn more about JARM, which is developed by the Salesforce team, this is a great article:

**Easily Identify Malicious Servers on the Internet with JARM**

JARM is an active Transport Layer Security server fingerprinting tool that provides the ability to identify and group...

engineering.salesforce.com



This data contained many IPs that were burnt by the time of analysis

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From there, it was an exercise of cleaning up the data into something useable and using Excel-fu to get some ugly pie graphs :)



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Written by svchOst

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