

How To Track Malicious Infrastructure With DNS Records - Vultur Banking Trojan

By Matthew

Published: 2024-04-11 · Archived: 2026-04-06 00:04:23 UTC

Threat Actors are known for monitoring public reports and adjusting infrastructure that believe may be compromised. As intelligence analysts, it's important to be able to keep up with these changes and update intelligence queries accordingly.

In this blog, we'll examine an example in which the developers behind the Vultur banking trojan *appear* to have updated the naming scheme of their domain infrastructure in response to a public threat intelligence report.

We will use passive DNS tooling to cross-examine historical domains and identify common infrastructure and patterns in naming schemes. We will leverage these as pivot points to identify 13 new domains in use by the Vultur developers.

Initial Intelligence

The initial intelligence for this post originates from a fantastic Fox-it [article](#) describing Vultur Activity. The article goes into great detail about Vultur and its capabilities.

We won't be covering the Vultur functionality here; instead, we will leverage the provided dropper distribution URLs to identify additional infrastructure.

The original dropper distribution URLs provided in the [Fox-it article](#) can be seen below.

Dropper distribution URLs

- mcafee[.]960232[.]com
- mcafee[.]353934[.]com
- mcafee[.]908713[.]com
- mcafee[.]784503[.]com
- mcafee[.]053105[.]com
- mcafee[.]092877[.]com
- mcafee[.]582630[.]com
- mcafee[.]581574[.]com
- mcafee[.]582342[.]com
- mcafee[.]593942[.]com
- mcafee[.]930204[.]com

Initial URLs provided by Fox-IT Report on Vultur

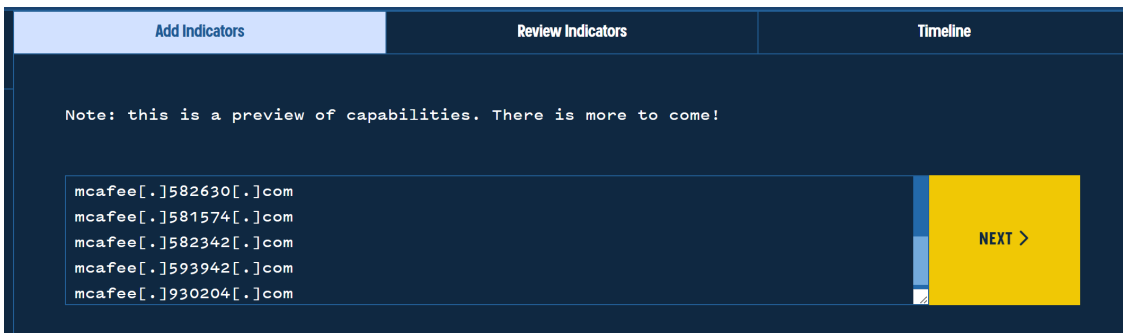
Initial Analysis Of Distribution URLs

The first step here is to gather basic intelligence on the initial reported URLs.

We will be leveraging [Validin](#) for this analysis. However, you are welcome to use any passive DNS tooling that you have access to.

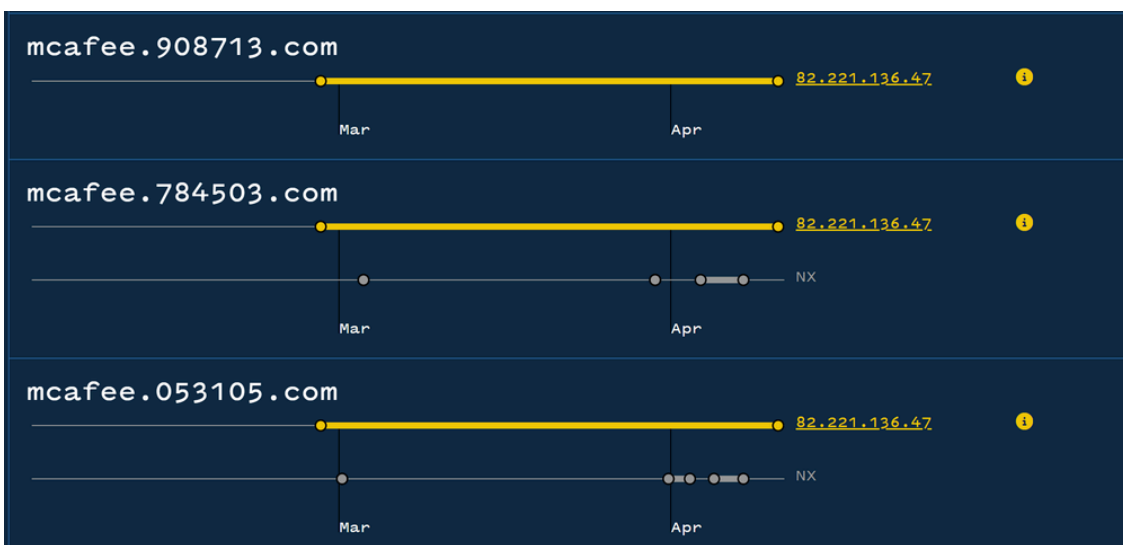
The initial intelligence can be obtained using a bulk lookup, which provides a summary of the historical IP addresses associated with each initial domain.

We can leverage this to look for any commonalities in the historical IP addresses and establish an initial pivot point.



The bulk lookup returns the list of historical IPs for the domains, and immediately, we can see a commonality in historical IP addresses, which we can leverage as an initial pivot point.

Below we can see that several of the domains have historically resolved to the same IP address of `82.221.136[.]47`



Initial Pivot on Common IP Address

With a common IP address identified across several (but not all) of the initial URLs, we can leverage this as a pivot point by searching on the IP address and viewing domains that have previously been associated.

In this case there are over 5000 domains associated. Indicating that this IP is likely a load balancer, proxy, or some kind of shared infrastructure.

This means that the IP itself may not be malicious, but there are malicious domains routing through it.

82.221.136.47

AS 50613 (THORDC-AS)

0 Low 0 Med 1 High

Reputation OSINT (4) Resolutions (5001+) Subdomains DNS Records (40) Host Connections (5000+) Host Responses (1126) CT Stream (0)

TABLE VIEW TIMELINE VIEW

Key	Type	Value	First Seen	Last Seen
82.221.136.47 AS 50613	A	norbertweber.net	2023-09-23	2024-04-10
82.221.136.47 AS 50613	A	cryptodrip.net	2023-09-21	2024-04-10

Pivoting on Subdomain

The initial intelligence shows that the malicious domains all contain the "mcafee" subdomain.

We can leverage this to narrow down our 5000 domains to only those that contain "mcafee".

Sort Ascending ↑

Sort Descending ↓

Prefix Match:

Suffix Match:

Includes:

Excludes:

Download column values

Copy column values

Reset Apply

Applying the "mcafee" filter brings the 5000+ results down to only 24.

These 24 results show several of our initial domains and some new domains that leverage a hyphen between the numerical values.

Key	Type	Value	First Seen	Last Seen
82.221.136.47 🇩🇰 AS 50613	A	mcafee.092877.com	2024-02-28	2024-04-10
82.221.136.47 🇩🇰 AS 50613	A	mcafee.357-46.com	2024-03-08	2024-04-10
82.221.136.47 🇩🇰 AS 50613	A	mcafee.053105.com	2024-02-28	2024-04-10
82.221.136.47 🇩🇰 AS 50613	A	mcafee.908713.com	2024-02-28	2024-04-10
82.221.136.47 🇩🇰 AS 50613	A	mcafee.798-13.com	2024-03-08	2024-04-10

If we repeat this process for other observed IP addresses, we can see some of the same URLs provided in the initial report.

Key	Type	Value	First Seen	Last Seen
162.222.225.119 🇺🇸 AS 46606	A	mcafee.960232.com	2024-02-03	2024-02-27
162.222.225.119 🇺🇸 AS 46606	A	www.mcafee.960232.com	2024-02-01	2024-02-27
162.222.225.119 🇺🇸 AS 46606	A	www.mcafee.593942.com	2024-02-01	2024-02-21
162.222.225.119 🇺🇸 AS 46606	A	www.mcafee.582342.com	2024-02-01	2024-02-21
162.222.225.119 🇺🇸 AS 46606	A	mcafee.582342.com	2024-02-01	2024-02-21
162.222.225.119 🇺🇸 AS 46606	A	mcafee.593942.com	2024-02-03	2024-02-21

As well as some new results where the actor has increased the number of numerical values and included a hyphen.

99.83.175.80

🇺🇸 AS 16509 (AMAZON-02)

0
Low

0
Med

0
High

Reputation
OSINT (0)
Resolutions (5000+)
Subdomains
DNS Records (0)
Host Connections (0)
Host Responses (35)
CT Stream (0)

TABLE VIEW TIMELINE VIEW

Key	Type	Value	First Seen	Last Seen
99.83.175.80 🇺🇸 AS 16509	A	www.mcafee.5832-3414.com	2024-02-22	2024-04-10
99.83.175.80 🇺🇸 AS 16509	A	mcafee.5832-3414.com	2024-02-22	2024-04-10

1-2 of 2+

This process can be repeated with the remainder of the IPs found in the initial bulk search. As well as with new IPs discovered in historical records during the investigation process.

During our initial review, we were able to obtain 13 domains on the same infrastructure that were not included in the initial report.

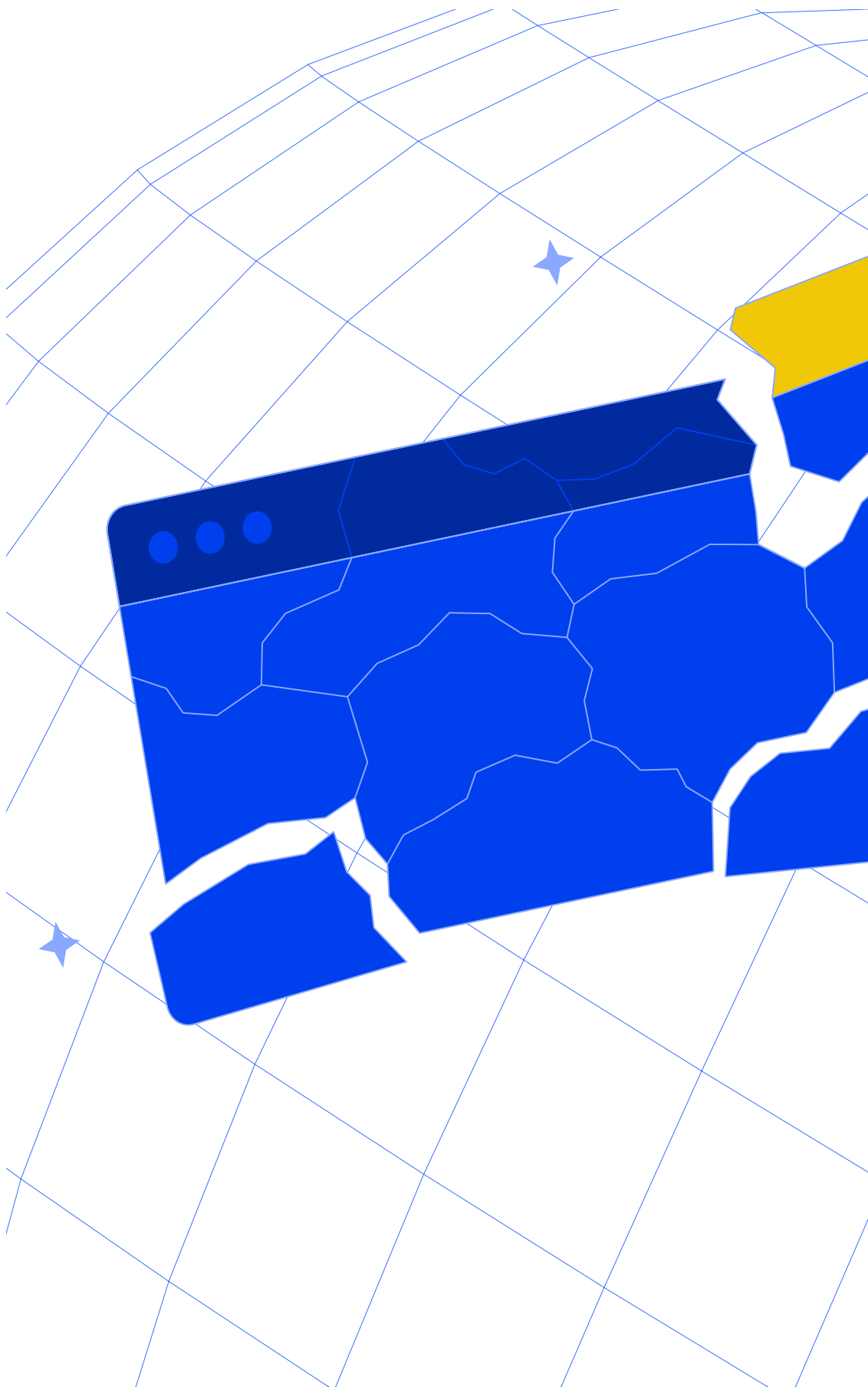
As we did not check every IP address and resolve every domain, there are likely more out there that can be found with extra searching. You are welcome to try and find more using the free Community Edition of Validin.

[Validin](#)

[Validin offers cutting-edge DNS, certificate, and crawling data services to empower threat researchers and corporate security teams. Identify, track, and mitigate risks with our advanced threat intelligence solutions.](#)



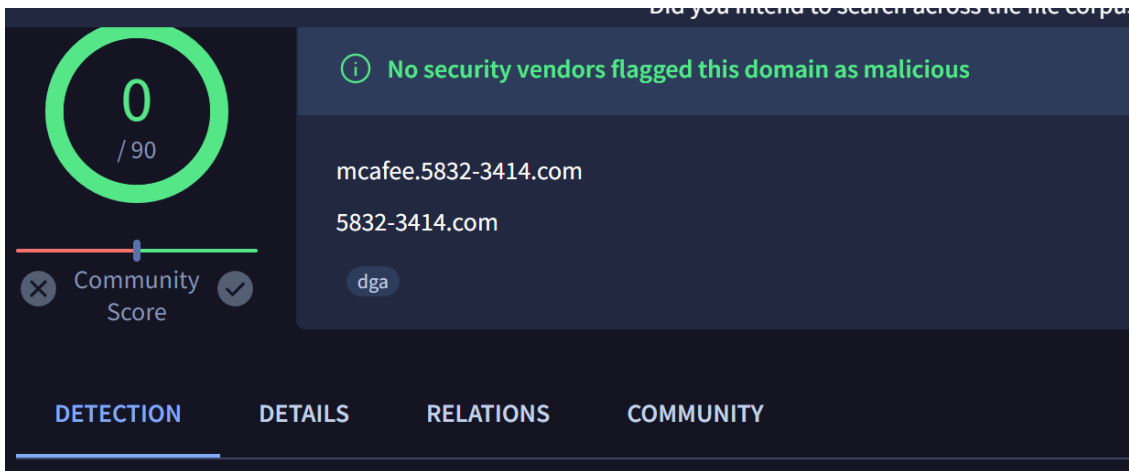
[Validin](#)



List of Malicious Domains

mcafee.0041-3413[.]com
mcafee.0041-5413[.]com
mcafee.0051-4413[.]com
mcafee.0051-6413[.]com
mcafee.357-46[.]com
mcafee.486-31[.]com
mcafee.5541-23[.]com
mcafee.5814-1601[.]com
mcafee.5832-1414[.]com
mcafee.5832-3414[.]com
mcafee.654-87[.]com
mcafee.789-20[.]com
mcafee.798-13[.]com

Virustotal Review



Did you intend to search across the mc corpora

0
/ 90

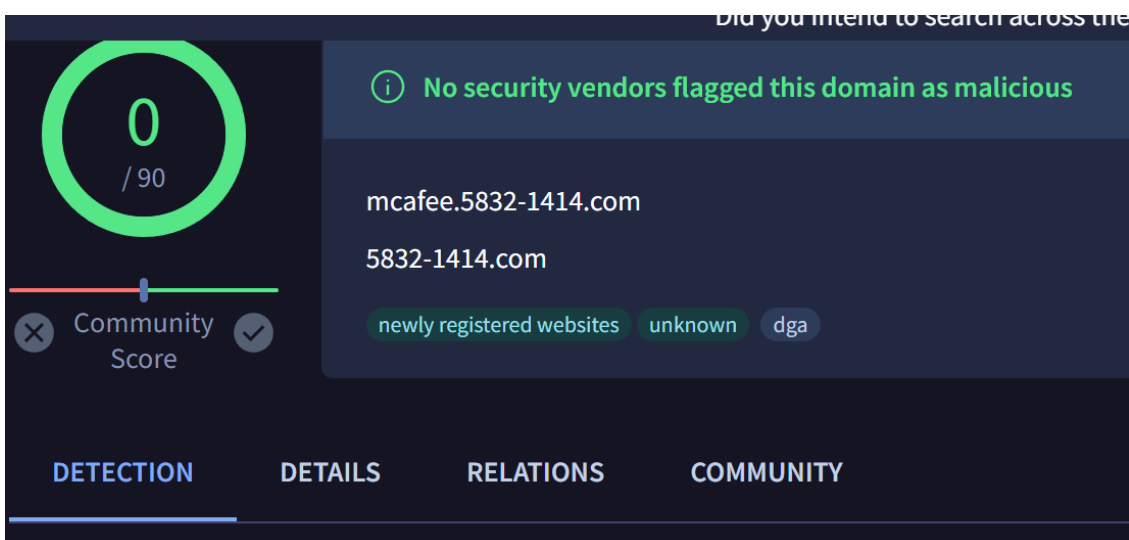
No security vendors flagged this domain as malicious

mcafee.5832-3414.com
5832-3414.com

dga

Community Score

DETECTION DETAILS RELATIONS COMMUNITY



Did you intend to search across the

0
/ 90

No security vendors flagged this domain as malicious

mcafee.5832-1414.com
5832-1414.com

newly registered websites unknown dga

Community Score

DETECTION DETAILS RELATIONS COMMUNITY

0 / 90

Community Score

i No security vendors flagged this domain as malicious

mcafee.0041-3413.com

0041-3413.com

dga

DETECTION DETAILS RELATIONS COMMUNITY

Did you intend to search across the file

0 / 90

Community Score

i No security vendors flagged this domain as malicious

mcafee.0051-6413.com

0051-6413.com

dga

DETECTION DETAILS COMMUNITY

0 / 90

Community Score

i No security vendors flagged this domain as malicious

0051-6413.com

dga

DETECTION DETAILS RELATIONS COMMUNITY

2 / 90

Community Score

2/90 security vendors flagged this domain as malicious

mcafee.0041-5413.com
0041-5413.com

Suspicious (alphaMountain.ai) dga

Registrar: PSI-USA, Inc

DETECTION DETAILS RELATIONS COMMUNITY

2 / 90

Community Score

2/90 security vendors flagged this domain as malicious

mcafee.357-46.com
357-46.com

dga

DETECTION DETAILS RELATIONS COMMUNITY

1 / 90

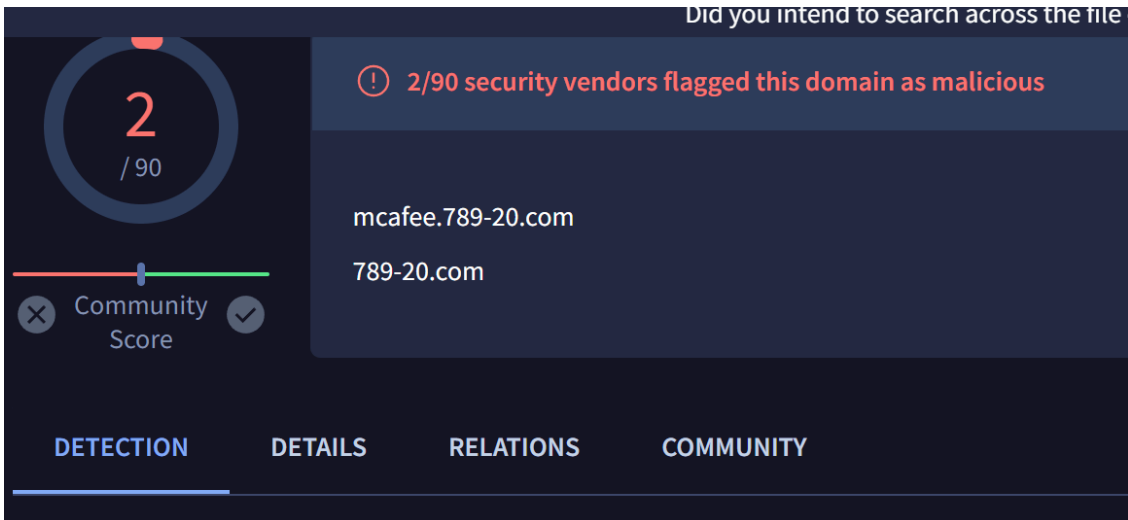
Community Score

1/90 security vendor flagged this domain as malicious

mcafee.654-87.com
654-87.com

newly registered websites unknown dga

DETECTION DETAILS RELATIONS COMMUNITY



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Source: <https://embeersearch.io/infrastructure-tracking-locating-vultur-domains-with-passive-dns/>